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FINAL CENTRAL GROUNDWATER PLUME FEASIBILITY STUDY OPERABLE UNIT (OU) 1
PART 2 OF 4 MCAS CHERRY POINT NC
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CH2M HILL

Appendix A
2009 Tech Memo

2009 Additional Investigation Activities
Operable Unit 1
MCAS Cherry Point, North Carolina

PREPARED FOR: MCAS Cherry Point Tier I Partnering Team

PREPARED BY: CH2M HILL

DATE: January 19, 2009

Introduction

This technical memorandum presents the data and findings from the 2009 additional field activities at Operable Unit 1 (OU1), located at Marine Corps Air Station (MCAS) Cherry Point, North Carolina (**Figures 1 and 2**). The field activities included the collection of groundwater level measurements and groundwater samples from 160 existing monitoring wells and the installation and sampling of 14 new monitoring wells.

The field activities were implemented based on the proposed future actions described in the OU1 Remedial Investigation (RI) Addendum (CH2M HILL, 2009) to support the OU1 Central Groundwater Plume Feasibility Study (FS). Additional monitoring wells were proposed to further characterize the extent of the chlorinated volatile organic compound (VOC) groundwater plume in the vicinity of Sandy Branch Tributary #2. Additional samples were collected from existing monitoring wells to update OU1 conditions and establish baseline conditions prior to the implementation of a remedial action. All existing and newly installed monitoring wells were analyzed for natural attenuation parameters that included nitrate, nitrite, sulfide, chloride, methane, ethane, ethene, and total organic carbon (TOC).

This technical memorandum was prepared under the United States (U.S.) Department of the Navy (Navy), Naval Facilities Engineering Command (NAVFAC), Atlantic Division, Comprehensive Long-Term Environmental Action Navy 1000 Contract N62470-08-D-1000, Contract Task Order 0059, for submittal to NAVFAC Mid-Atlantic Division, MCAS Cherry Point Environmental Affairs Department (EAD), U.S. Environmental Protection Agency (USEPA) Region 4, and North Carolina Department of Environment and Natural Resources (NCDENR). NAVFAC, EAD, USEPA, and NCDENR work jointly as the MCAS Cherry Point Tier I Partnering Team.

Objectives and Approach

In addition to the field activities proposed as future actions in the OU1 RI Addendum, additional monitoring wells were also planned to support the FS evaluation of the OU1 Central Groundwater Plume, and for potential long-term monitoring at other OU1 Sites (Sites 16, 17, and 83).

The specific objectives of the additional field investigation activities included the following:

- Installation and sampling of 4 upper surficial aquifer and 5 lower surficial aquifer monitoring wells to the north, northeast, and downgradient of existing monitoring well 42GW15, to further characterize the chlorinated VOC plume along Sandy Branch Tributary #2.
- Installation and sampling of 1 lower surficial aquifer monitoring well to delineate the southern extent of the chlorinated VOC plume.
- Installation and sampling of 2 lower surficial aquifer monitoring wells to further assess the horizontal extent of elevated chlorinated VOC concentrations (i.e. above 10 times the North Carolina 2L Groundwater Standard [NC2L]) in the downgradient portion of the plume.
- Installation and sampling of 1 upper surficial aquifer monitoring well at each of Sites 16, 17, and 83 (total of 3 monitoring wells) to serve as part of potential monitoring well networks for long-term monitoring.
- Sampling from 170 existing monitoring wells to establish baseline conditions prior to implementation of a remedial action, provide another temporal groundwater monitoring event at monitoring wells only sampled once, and to further assess the plume stability and natural attenuation conditions.

The proposed additional field activities were discussed and approved by the MCAS Cherry Point Partnering Team during the January 13, 2009 Partnering Meeting in Atlanta, Georgia.

List of Attachments

The following attachments presenting the data and information are provided:

- A – Boring and Well Construction Logs
- B – Survey Data
- C – Laboratory Analytical Reports
- D – Data Validation Reports
- E – Time Series Charts

Investigation Activities

The field investigation activities were conducted in two separate phases. The first phase was conducted in March 2009 and consisted of a groundwater monitoring event that included the existing monitoring wells. The second phase was conducted in April and May 2009, and included the installation and sampling of new monitoring wells.

Sampling and well installation activities followed the protocols and standard operating procedures (SOPs) described in the *Final Master Field Sampling Plan, MCAS Cherry Point, North Carolina* (CH2M HILL, 2004). A site-specific Health and Safety Plan (HASP) to address site-specific details relevant to the Master Field Sampling Plan was completed prior to commencement of the field event and all associated staff reviewed the document.

A description of the field activities is discussed below.

Groundwater Monitoring Event

The groundwater monitoring event occurred between March 9 through 30, 2009 and included the sampling of 160 existing monitoring wells (**Figure 3**). Prior to sampling activities, two monitoring wells were added to the original 170-well sampling network (MW01 and N2GW75) that had been discussed at the January 2009 Partnering Meeting. MW01 was added to assess the vertical extent of the plume in the area of the Industrial Wastewater Treatment Plant (IWTP), and N2GW75 was substituted for N4GW22 since the well had been abandoned and replaced. Of a total of 172 monitoring wells proposed to be sampled, 12 monitoring wells were either found to have been destroyed or damaged, could not be located, or were dry (**Table 1**).

Prior to purging, the field team measured and recorded the depth to water, sampling depth (sample tubing intake), and total well depth in the log book. Purging and sampling was done using either a peristaltic pump or a submersible pump at a flow rate of approximately 100 – 500 milliliters per minute (mL/min). Purging continued until water quality parameters stabilized for three consecutive readings. Water quality parameters were obtained using a Horiba U-22 water quality meter and flow-through cell. Parameters were considered stabilized over three successive readings when measurements were generally consistent as follows:

a) pH within 0.1 pH units
b) Temperature within 10%
c) Conductivity within 3%
d) Oxidation-reduction potential (ORP) within 10 mV
e) Dissolved oxygen (DO) within 10%
f) Turbidity is minimized to the extent practical for the well

The field parameter data are summarized in **Tables 2 and 3**.

Groundwater samples were collected by placing the sample tubing intake in the middle of the screened interval. For collection of VOC samples, the pre-preserved bottles were filled completely to minimize aeration, and capped to prevent the entrapment of any air bubbles in the vial. Following purging, VOC samples were collected using the straw method.

The groundwater samples were analyzed by GPL Laboratories (GPL) of Fredrick, Maryland for analysis of VOCs using method SW846-8260B and natural attenuation parameters that included nitrate, nitrite, sulfide, chloride, methane, ethane, ethene, and total organic carbon (TOC). All samples were contained in laboratory-prepared, pre-preserved sample bottles and packed on ice. Quality assurance/quality control (QA/QC) samples included field duplicates, matrix/matrix spike duplicates (MS/MSDs), field blanks, equipment blanks, and trip blanks.

All non-disposable sampling equipment was decontaminated immediately after each use in accordance with the applicable SOPs.

Monitoring Well Installation and Sampling

Fourteen groundwater monitoring wells were installed in the upper and lower surficial aquifers within OU1 (**Figure 4**). One monitoring well (16GW48) at Site 16 intended as a

future long-term monitoring well could not be installed due to poor weather conditions and will be installed at a later date.

Prior to the drilling of each borehole, all buried utilities were marked by Accumark Inc. of Ashland, Virginia on April 13, 2009. Monitoring well installations were conducted from April 15 through 24, 2009 by Miller Drilling Inc. of Lawrenceville, Tennessee using the sonic drilling technique. All field activities were completed under the direct supervision of a CH2M HILL geologist. A photo-ionization detector (PID) was used for monitoring sample locations for VOCs as a health and safety precaution.

During borehole drilling, soil descriptions that included grain size, color, moisture content, consistency, soil structure, mineralogy, and other relevant information concerning contamination were recorded. A copy of the soil boring logs is provided in **Attachment A**.

Each monitoring well was constructed with 2-inch nominal-diameter Schedule 40 polyvinyl chloride (PVC) screen and riser. Monitoring well screens were machine-slotted 0.010-inch, and 10 feet in length. A silica sand filter pack was installed in the annular space around the well screen from the bottom of the boring extending to a depth of 2 feet above the top of the screen. A 2-feet thick bentonite layer was placed above the top of the sand pack. After the bentonite was hydrated, a cement-bentonite grout was used to fill the remaining annular space. Four monitoring wells (42GW16, 42GW17, 14GW53, and 16GW52) were completed flush to ground surface with a watertight steel cover. A locking watertight cap was placed on the PVC pipe and the wells clearly labeled. The remaining 11 monitoring wells were completed above grade with four steel bollards painted yellow installed to protect the monitoring well. Well construction details are summarized in **Table 4** and **Attachment A**.

All newly installed monitoring wells were allowed to sit for at least 48 hours prior to development to allow the cement-bentonite grout seals to set up. Development equipment was steam cleaned before use at each location. All development and decontamination water was temporarily stored in labeled, 55-gallon drums pending characterization and transported to the Base IWTP for disposal.

Initially, monitoring wells were surged and bailed to remove sediment that might have entered the well during construction and to promote hydraulic communication between the formation, filter pack, and well screen. The monitoring wells were further developed by pumping with a submersible pump. Water quality parameters, including pH, conductivity, temperature, turbidity, and dissolved oxygen (DO), were measured during development using a Horiba U-22 water quality meter.

Groundwater sampling of the 14 new monitoring wells occurred between May 5 and 8, 2009. Except for monitoring well 17GW03 at Site 17, each newly-installed monitoring well was sampled and analyzed for VOCs using EPA Method SW846-8260B and natural attenuation parameters that included nitrate, nitrite, sulfide, chloride, methane, ethane, ethene, and TOC (**Figure 4**). Monitoring well 17GW03 was only analyzed for polychlorinated biphenyls (PCBs) by method SW846-8082 and the pesticide dieldrin using method SW846-8081A. Monitoring well 16GW49 at Site 83 was sampled for VOCs and also for polycyclic aromatic hydrocarbons (PAHs) by method SW846-8310 and pesticides by method SW846-8081A. The same sampling procedures as described previously for the existing wells were used.

Each newly-installed monitoring well was surveyed on May 6, 2009, by Lanier Surveying Inc. of Swansboro, North Carolina. The vertical elevations of the north side of the top of each monitoring well casing and the ground surface, and the horizontal coordinates (northings and eastings) of the center of each well vault, were surveyed relative to North American Vertical Datum (NAVD) 88 (**Attachment B**).

Investigation-Derived Waste

Investigation-derived waste (IDW) consisted of drill cuttings, purge water, and decontamination fluids. Aqueous IDW was temporarily stored in 55-gallon drums or 5 gallon buckets with lids and transported to the IWTP for disposal on a daily basis. A letter was provided by MCAS Cherry Point prior to the event granting permission to utilize the IWTP for aqueous IDW disposal. Soil IDW generated during drilling activities was containerized in Department of Transportation (DOT) approved 55-gallon drums and stored temporarily at the base-approved drum storage area. Soil IDW was transported offsite to an approved facility on June 25, 2009 by Potomac Environmental, Inc. of Stafford, Virginia.

Disposable equipment, including personal protective equipment (PPE), polyethylene sheeting, paper towels, and polyethylene tubing was disposed of as solid waste.

Investigation Results

Geology

The lithology encountered during the drilling of each borehole consisted primarily of poorly-graded sand. The Yorktown confining unit was encountered at approximately 40 feet below ground surface (bgs) at monitoring wells 14GW53, 42GW17, 42GW19, and 42GW21 and not observed at 42GW23, 16GW50, and 16GW51, which are located within the area underlain by the previously-identified paleochannel. Boring logs are included in **Attachment A**.

Groundwater Conditions

Groundwater elevations measured in 2009 are generally consistent with the 2006 measurements (**Tables 5 and 6**). Groundwater elevations ranged from 15.42 feet above mean sea level (msl) (MW20) to 0.07 feet above msl (16GW40) in the upper surficial aquifer monitoring wells and 15.42 feet above msl (47GW08) to 1.03 feet below msl (MW43) in the lower surficial aquifer monitoring wells (**Figures 5 and 6**). Groundwater flows generally westward in the surficial aquifer towards East Prong Slocum Creek and Sandy Branch, with an average hydraulic gradient of approximately 0.004 foot per foot (ft/ft).

Measured vertical hydraulic gradients (**Table 7**) were generally consistent with the gradients presented earlier in the OU1 RI Addendum.

Data Management and Validation

Groundwater samples were tracked from the time of field collection to the receipt of validated electronic analytical results. Documentation of field samples and their corresponding analytical tests were recorded on chain-of-custody forms for submission to the laboratory. Chain-of-custody entries were checked to verify that all designated samples

were collected and submitted for the appropriate analysis. Upon receipt of the samples by the laboratory, a comparison to the field information was made to ensure that each sample would be analyzed for the correct parameters with the proper number of QA/QC samples. The laboratory analytical reports are included in **Attachment C**.

Third-party validation was performed by Environmental Data Services, Inc. of Williamsburg, Virginia. Data that should be qualified was flagged appropriately. Results for QA/QC samples were reviewed and the data was qualified further, as necessary. Finally, the data set as a whole was examined for consistency, anomalous results, reasonableness, and utility. The data validation reports are included in **Attachment D**.

Regulatory Standards and Risk-Based Screening Values

Following receipt of the validated data from the analytical laboratory, the results of the groundwater analyses were compared to the appropriate screening criteria and are presented in **Tables 8, 9, and 10**. The screening criteria included:

- Federal Maximum Contaminant Levels (MCL) and Secondary MCLs
- North Carolina Administrative Code, Title 15A, Subchapter 2L, Groundwater Standards for "Class GA Groundwater Quality" (NC2L Standards)
- USEPA Regional Screening Levels (RSLs) for Tap Water

Analytical Results

Groundwater analytical results that exceeded screening criteria are summarized in **Tables 8, 9, and 10**. Concentration contour maps for the upper and lower surficial aquifers were prepared for trichloroethene (TCE), 1,2-dichloroethene (DCE), and vinyl chloride, and are shown in **Figures 7 through 14**. Time series charts presenting concentration trends through time were created using selected clustered monitoring wells located within the center of each plume, and are shown in **Attachment E.**

Results from the newly-installed monitoring wells, deviations in the plume from the OU1 RI Addendum, and concentration trends through time are discussed below.

TCE

TCE was observed in all new monitoring wells installed to the north of Sandy Branch Tributary #2 (**Figures 7 and 9**); however, only two monitoring wells (42GW16 and 42GW18) installed within the upper surficial aquifer contained TCE slightly exceeding the NC2L. The northern lateral extent of TCE within the upper surficial aquifer is expected to be in close proximity to these wells. The newly-installed monitoring wells within the lower surficial aquifer complete the delineation of the northern lateral extent of the TCE plume.

The southern extent of the plume within the lower surficial aquifer was delineated with the installation of the three new monitoring wells (16GW50 through 16GW52) near Roosevelt Boulevard (**Figure 9**). Monitoring well 16GW50 also aids in delineating the extent of the center axis of the plume (i.e., concentrations above 10-times the NC2L).

In general, TCE concentrations within the upper and lower surficial aquifers have decreased since the last sampling events in Spring 2006 and Fall 2008, presented in the OU1 RI

Addendum (CH2M HILL, 2009). However, TCE concentrations have increased in a select number of monitoring wells located immediately downgradient of Building 133. A discussion of the TCE concentration trends through time at monitoring wells generally located along the center axis of each plume is provided below (from source area to discharge point).

Building 137

- **Building 137 Area–** TCE concentrations within the upper surficial aquifer have significantly decreased at 47GW07 from 8,700 to 440 µg/L and are consistently below the NC2L within the lower surficial aquifer (**Attachment E, Chart E-1)**.
- **Downgradient of Building 137 –** TCE has not been observed within the upper surficial aquifer downgradient of the building; concentrations in the lower surficial aquifer (MW-23) significantly decreased since the last sampling event (2006), from 330 to 4.3 µg/L (**Attachment E, Chart E-1**).

IWTP

- **IWTP Area to Sandy Branch –** TCE concentrations within the upper and lower surficial aquifers generally show a decreasing concentration trend since the last sampling event in 2006 (**Attachment E, Chart E-2**). Near the groundwater to surface water discharge area at Sandy Branch, concentrations significantly decreased in the upper surficial aquifer (16GW06) since the last sampling event in 2006, from 120 to 13 µg/L.

Building 133

- **Building 133 Area –**TCE concentrations in the upper surficial aquifer beneath Building 133 have significantly decreased since the 2006 event at the majority of monitoring wells (e.g., from 62,000 to 9,700 µg/L at 52GW53) (**Attachment E, Chart E-3**). Only one monitoring well (52GW46) sampled in 2009 had TCE concentrations above 11,000 µg/L (indicative of DNAPL), with a concentration of 17,000 µg/L (**Figure 8**).
- **Downgradient of Building 133 –** TCE concentrations in both the upper and lower surficial aquifers immediately downgradient of Building 133 significantly increased (**Attachment E, Chart E-3**). TCE was not previously observed in the upper surficial aquifer in the area (16GW11, N2GW07, N2GW44, and N2GW15), but was observed up to a concentration of 210J µg/L at 16GW11 in 2009 (**Figure 7**). Concentrations at MW53 increased in the lower surficial aquifer from 100 (2006) to 510 µg/L.
- **Further Downgradient –** TCE concentrations within the upper and lower surficial aquifers generally show a decreasing trend (**Attachment E, Chart E-3**).
- **East Prong Slocum Creek and Sandy Branch –** Monitoring wells west of Cunningham Boulevard generally show a similar concentration trend, in which concentrations increased in 2006 and decreased in 2009 (**Attachment E, Chart E-3**). TCE concentrations in the area of East Prong Slocum Creek were generally consistent with previous sampling events; however, TCE concentrations increased in 2009

adjacent to Sandy Branch at 16GW04 (190 µg/L - upper surficial aquifer) and 16GW28 (32 µg/L - lower surficial aquifer) (**Figures 7 and 9**).

1,2-DCE and Vinyl Chloride

The newly-installed monitoring wells delineate both the northern and southern extents of the 1,2-DCE plume (**Figures 11 and 12**). Similar to TCE, 1,2-DCE concentrations generally showed decreasing trends in the upper and lower surficial aquifers (**Attachment E, Charts E-4 through E-6**).

Vinyl chloride was not detected at the newly-installed monitoring wells to the north and south of the plume (**Figures 13 and 14**). Vinyl chloride concentration trends through time were generally similar to trends of TCE (**Attachment E, Charts E-7 through E-9**). Vinyl chloride generally showed decreasing trends, except for 2009 concentrations located immediately downgradient of Building 133 (16GW11 and MW53) and adjacent to Sandy Branch (16GW04 and 16GW28).

Monitored Natural Attenuation Analysis

Field measurements collected during the purging of the wells included depth to water, DO, ORP, pH, temperature, conductivity, and turbidity (**Tables 2 and 3**). The spatial distribution of DO within the upper and lower surficial aquifers is shown in **Figures 15 and 16**, respectively. Additionally, groundwater samples were collected and submitted for laboratory analysis of geochemical parameters that included nitrate, nitrite, sulfide, chloride, total organic carbon (TOC), methane, ethane, and ethene (**Table 10**).

A summary of the significance of each natural attenuation parameter and the geochemical conditions within groundwater in the Building 137 area, the Building 133 and IWTP area, and the downgradient area towards East Prong Slocum Creek and Sandy Branch is discussed below.

Summary of Natural Attenuation Parameters

Dissolved Oxygen

DO is the most thermodynamically favored electron acceptor used by microbes for the biodegradation of organic carbon. Reductive dechlorination can occur at DO concentrations less than 5 mg/L. However, DO concentrations less than 0.5 mg/L are considered ideal conditions for reductive dechlorination.

Nitrate/Nitrite

After DO has been depleted, nitrate may be used as an electron acceptor during anaerobic biodegradation of organic carbon via denitrification. In this process, nitrate is reduced and nitrite is produced. Nitrate concentrations less than background indicate that nitrate reduction is occurring in an aquifer. At concentrations greater than 1.0 mg/L, nitrate may compete with chlorinated ethenes as an electron acceptor.

Sulfate/Sulfide

After DO and nitrate have been depleted, sulfate may be used as the electron acceptor in anaerobic degradation. This process is termed "sulfate reduction" and results in the production of sulfide. Sulfide concentrations increase within the aquifer when sulfate reduction is occurring.

Methane

After the other electron acceptors have been utilized, carbon dioxide can be used as the electron acceptor in anaerobic degradation. In this process, termed "methanogenesis," carbon dioxide is reduced to produce methane. The presence of methane in the aquifer is indicative of strongly reducing conditions. Reductive dechlorination is most efficient under methanogenic conditions. In general, methane concentrations higher than background indicate that methanogenesis is occurring.

Ethene/Ethane

Ethene is a daughter product of vinyl chloride, and ethane is a daughter product of ethene. Concentrations of ethene above 0.01 µg/L and ethane above 0.1 µg/L indicate reductive dechlorination is proceeding to completion.

Total Organic Carbon

Organic carbon is used as an electron donor (or may produce hydrogen, which can serve as the electron donor) in the reductive dechlorination process and, therefore, is needed to drive the process. Organic carbon can be naturally-occurring or introduced by human activity. The presence of TOC at concentrations greater than 20 mg/L indicates ideal conditions for reductive dechlorination.

Oxidation-Reduction Potential (ORP)

The ORP of groundwater is a measure of electron activity and is an indicator of the relative tendency of a solution to accept or transfer electrons. The ORP of a groundwater system depends upon and influences rates of biodegradation. Reductive dechlorination is most efficient in the ORP range corresponding to sulfate reduction and methanogenesis (less than -100 millivolts [mV]); however, dechlorination of PCE and other chlorinated ethenes also occurs in the ORP range associated with nitrate, manganese, and ferric iron reduction (-50 to 740 mV).

Temperature and pH

Groundwater temperature directly affects the solubility of oxygen and other geochemical species. Reductive dechlorination can occur at groundwater temperatures between 5°C and 20°C, while temperatures greater than 20°C are considered ideal for reductive dechlorination.

The pH of groundwater has an effect on the presence and activity of microbial populations in groundwater. The optimal pH range for reductive dechlorination is 5 to 9.

Reductive Dechlorination Daughter Products

Reductive dechlorination daughter products of TCE include cis-1,2-DCE, vinyl chloride, ethane, and ethene. The presence of these compounds indicates biodegradation is occurring.

During biodegradation of chlorinated hydrocarbons, chloride is released into the groundwater. Therefore, elevated chloride concentrations relative to background indicate degradation is taking place.

Building 137 Area

The geochemical parameters measured in the vicinity of Building 137 are discussed below.

Dissolved Oxygen

DO concentrations in the upper surficial aquifer ranged from less than 0.10 mg/L (47GW07) to 2.90 mg/L (MW20) (**Figure 15**). With the exception of MW20 and 47GW20, each of the monitoring wells contained DO concentrations less than 0.50 mg/L. Therefore, DO concentrations indicate favorable to ideal conditions for reductive dechlorination in the upper surficial aquifer.

DO concentrations in the lower surficial aquifer ranged from less than 0.10 mg/L (14GW53 and 47GW25) to 2.37 mg/L (MW21). The majority of lower surficial aquifer monitoring wells contained DO concentrations less than 0.5 mg/L, and all of these wells contained DO concentrations less than 5 mg/L. The low DO concentrations observed are indicative of favorable to ideal conditions for reductive dechlorination in the lower surficial aquifer in the vicinity of Building 137.

Nitrate/Nitrite

Nitrate was observed in four upper surficial aquifer monitoring wells: 47GW17 (0.68 mg/L); 47GW18 (1.4 mg/L); 47GW20 (2.1 mg/L); and MW20 (0.24 mg/L). Nitrite was not observed in any upper surficial aquifer monitoring well. Nitrate and nitrite were not detected in lower surficial aquifer monitoring wells. Therefore, nitrate reduction does not appear to be a significant electron acceptor process in the vicinity of Building 137.

Sulfide

Sulfide was not observed within the upper or lower surficial aquifers in the vicinity of Building 137. Therefore, sulfate reduction does not appear to be a significant electron acceptor process.

Methane

In the upper surficial aquifer, methane was detected in each well sampled near Building 137. Detected concentrations ranged from 8.5 µg/L (MW20) to 17,000 µg/L (47GW05). Methane concentrations within the plume areas were significantly elevated compared to background areas (such as 14GW18 and 14GW49, where methane was not detected). These data indicate the presence of strongly reducing conditions within the plume and ideal conditions for reductive dechlorination in the upper surficial aquifer.

In the lower surficial aquifer, methane was detected at concentrations that ranged from 25 µg/L (47GW10) to 10,000 µg/L (47GW06). The presence of methane at elevated

concentrations indicates the presence of strongly reducing conditions and ideal conditions for reductive dechlorination within the lower surficial aquifer.

Ethene/Ethane

Ethene was observed in one upper surficial aquifer monitoring well (47GW05) near Building 137 at a concentration of 58 µg/L. Ethane was detected in two upper surficial aquifer monitoring wells at concentrations of 42 µg/L (47GW07) and 8.4 µg/L (51GW02). The detection of ethene at a concentration more than 10 µg/L in 47GW05 indicates reductive dechlorination is likely proceeding to completion in this area. This conclusion is also supported by the lack of TCE and cis-1,2-DCE detected in this well in combination with the detection of vinyl chloride at a concentration of 49 µg/L. These data support the conclusion that reductive dechlorination is proceeding to completion in the Building 137 area.

In the lower surficial aquifer, ethene was detected in one monitoring well at a concentration of 8 µg/L (14GW51). Ethane was detected in two wells at concentrations of 50 µg/L (14GW51) and 20 µg/L (47GW25). These data, in conjunction with TCE daughter product concentrations, indicate reductive dechlorination is occurring and proceeding to completion in the lower surficial aquifer.

Total Organic Carbon

TOC was detected at relatively low concentrations in the upper surficial aquifer near Building 137, ranging from 1.9 mg/L (47GW12) to 21 mg/L (51GW02), and in the lower surficial aquifer, ranging from 2.4 (MW-21) mg/L to 5.7 mg/L (47GW11). Although TOC is generally not present at concentrations ideal for reductive dechlorination, TOC appears to be present at concentrations sufficient to drive reductive dechlorination based on the presence of reductive dechlorination daughter products (discussed below).

Oxidation-Reduction Potential

In the upper surficial aquifer, ORP ranged from -99 mV to 112 mV; ORP in the lower surficial aquifer ranged from -143 mV to 57 mV. The ORP in the Building 137 area is within the range where reductive dechlorination occurs and in some areas is within the ideal range.

Chlorides

Chloride concentrations ranged from 7.8 mg/L to 56 mg/L in the upper surficial aquifer. The highest chloride concentration was detected in 47GW05, which also contained the highest concentration of TCE. The chloride concentrations detected in the Building 137 source area were approximately 2 to 14 times higher than background concentrations (as represented by 14GW18 and 14GW49).

In the lower surficial aquifer, chloride concentrations ranged from 4.9 mg/L (MW-21) to 12 mg/L (14GW51 and 47GW11). Chloride concentrations within the plume are approximately 2 times higher than background concentrations (represented by 47GW10).

Chloride concentrations indicate that conditions in the upper and lower surficial aquifers are favorable to the efficacy of reductive dechlorination.

Temperature and pH

Groundwater temperatures in the upper surficial aquifer ranged from 21.00^{0}C to 26.40^{0}C and pH ranged from 5.15 to 6.90. In the lower surficial aquifer, the temperature ranged from 20.70 ^{0}C to 24.10^{0}C and the pH ranged from 5.74 to 7.15. The temperature and pH data indicate ideal conditions for reductive dechlorination.

Daughter Products

Reductive dechlorination daughter products of TCE (1,2-DCE and VC) were observed in the upper and lower surficial aquifers. The highest concentrations of daughter products are located downgradient of Building 137.

Building 137 Area Summary

Natural attenuation indicator parameters in the upper and lower surficial aquifers in the Building 137 area indicate favorable to ideal conditions for reductive dechlorination. The low DO and elevated methane concentrations indicate highly-reducing conditions are present in the area. Temperature and pH are also within the ideal range for reductive dechlorination to occur. Reductive dechlorination daughter products, including 1,2-DCE, vinyl chloride, chlorides, and ethene, indicate reductive dechlorination has occurred through completion. TOC is present within the aquifer and appears to be sufficient to drive reductive dechlorination, but degradation could likely be enhanced by the addition of a carbon source.

Building 133 and IWTP Area

The geochemical parameters measured in the vicinity of Buildings 133 and the IWTP westward to Cunningham Boulevard are discussed below.

Dissolved Oxygen

DO concentrations in upper surficial monitoring wells ranged from less than 0.10 mg/L (multiple wells) to 10.67 mg/L (52GW72); the majority of concentrations were less than 0.5 mg/L (**Figure 15**). Only four wells contained DO concentrations greater than 5 mg/L. In general, the low DO concentrations observed are indicative of favorable to ideal conditions for reductive dechlorination.

DO concentrations in the lower surficial aquifer ranged from less than 0.10 mg/L (multiple wells) to 10.26 mg/L (52GW71). DO concentrations exceeded 5 mg/L in only 5 of the 55 monitoring wells sampled in the lower surficial aquifer, and exceeded 0.5 mg/L in only 13 of these wells. Therefore, DO concentrations within the lower surficial aquifer are indicative of favorable to ideal conditions for reductive dechlorination.

Nitrate/Nitrite

Nitrate was detected in 11 upper surficial aquifer monitoring wells at concentrations that ranged from 0.13 mg/L to 1.3 mg/L. Nitrite was detected in only one sampled monitoring well. Nitrate and nitrite were only detected in two and one lower surficial aquifer monitoring wells, respectively. Therefore, nitrate reduction does not appear to be a significant electron acceptor process in this area, most likely due the lack of available nitrate.

Sulfide

Sulfide was detected in only one well located within the upper surficial aquifer (N2GW17 at 2.6 mg/L) and was not detected in the lower surficial aquifer. Therefore, sulfate reduction does not appear to be a significant electron acceptor process.

Methane

In the upper surficial aquifer, methane was detected in the majority of the monitoring wells. Detected concentrations ranged from 3.9 µg/L (16GW10) to 33,000 µg/L (52GW44). Methane concentrations within the plume area were significantly elevated compared to background (such as 14GW18 and 14GW49, where methane was not detected). Methane was detected in the lower surficial aquifer at concentrations that ranged from 13 µg/L (52GW45) to 8,300 µg/L (51GW02). The elevated methane concentrations indicate strongly reducing conditions are present in the upper and lower surficial aquifers, which are ideal for reductive dechlorination.

Ethene/Ethane

Ethene was detected in eight upper surficial aquifer monitoring wells at concentrations that ranged from an estimated value of 4.9 µg/L (52GW28) to 1,100 µg/L (MW73). Ethane was detected in four wells at concentrations that ranged from 8.4 µg/L (GW76) to 27 µg/L (N2GW07). The detection of ethene at concentrations more than 10 µg/L indicates reductive dechlorination is proceeding to completion in some areas of the upper surficial aquifer, including the highest concentration areas of the plume.

Ethene was detected at low concentrations (3.9 µg/L [estimated value] in MW53 to 6.2 µg/L in 52GW18) in three lower surficial aquifer monitoring wells and ethane was detected in four lower surficial aquifer monitoring wells at concentrations that ranged from 10 µg/L to 34 µg/L (51EX19 and 51EX16, respectively). The highest concentrations of these compounds were detected from monitoring wells located within the plume extent. The presence of these compounds indicates reductive dechlorination is proceeding to completion in some areas.

Total Organic Carbon

TOC was detected at relatively low concentrations in the upper surficial aquifer that ranged from 1.1 mg/L (MW37 and 42GW16) to 29 mg/L (N2GW75). In the lower surficial aquifer, TOC concentrations ranged from 1 mg/L to 21 mg/L. TOC was only detected above 20 mg/L in one monitoring well (MW64). In general, the TOC concentrations do not indicate conditions that are ideal for reductive dechlorination. However, TOC appears to be present at concentrations sufficient to drive reductive dechlorination based on the presence of reductive dechlorination daughter products (discussed below).

Oxidation-Reduction Potential

In the upper surficial aquifer, ORP ranged from -143 mV to 394 mV and from -178 mV to 185 mV in the lower surficial aquifer. ORP is within the range where reductive dechlorination occurs and is in the range where reductive dechlorination is most efficient in several locations.

Chlorides

Chloride concentrations ranged from 3.8 mg/L (14GW49 and 52GW39) to 44 mg/L (52GW11) in the upper surficial aquifer. The chloride concentrations detected in the Building 133 source area were approximately 2 to 11 times higher than background concentrations (as represented by 14GW18 and 14GW49). In the lower surficial aquifer, chloride was detected at concentrations that ranged from 6.6 mg/L (52GW59 and MW23) to 22 mg/L (52GW18). Chloride concentrations were approximately 2 to 3 times higher in the plume area compared to the upgradient concentrations. The elevated chloride concentrations indicate reductive dechlorination is occurring within the plume area.

Temperature and pH

Groundwater temperatures in the upper surficial aquifer ranged from 12.38^{0}C to 28.40^{0}C and pH ranged from 4.70 to 7.23. In the lower surficial aquifer, temperatures ranged from 19.47^{0}C to 26.70^{0}C and pH ranged from 5.10 to 7.23. In general, the temperature and pH data are close to or within the ideal range for reductive dechlorination.

Daughter Products

Reductive dechlorination daughter products of TCE (1,2-DCE and VC) were detected in the upper surficial and lower surficial aquifers. The elevated concentrations of TCE daughter products and relatively high daughter product to parent compound ratios indicate reductive dechlorination is occurring.

Building 133 and IWTP Area Summary

Natural attenuation indicator parameters in the Building 133 and IWTP area indicate favorable to ideal conditions for reductive dechlorination. The low DO and elevated methane concentrations indicate highly reducing conditions are present in this area. Temperature and pH are also close to within the ideal range for reductive dechlorination to occur. Reductive dechlorination daughter products, including 1,2-DCE, VC, and ethene, indicate reductive dechlorination has occurred through completion. TOC is present within the aquifer and appears to be sufficient to drive reductive dechlorination, but degradation could likely be enhanced by the addition of a carbon source.

Downgradient Area

The geochemical parameters measured downgradient of Cunningham Boulevard to East Prong Slocum Creek and Sandy Branch are discussed below.

Dissolved Oxygen

DO concentrations in upper surficial monitoring wells ranged from less than 0.10 mg/L (multiple wells) to 3.95 mg/L (16GW05). The majority of upper surficial aquifer wells contained DO concentrations less than 0.5 mg/L and all of these wells contained DO concentrations less than 5 mg/L. In the lower surficial aquifer, the DO concentration ranged from less than 0.10 mg/L (MW48 and MW39) to 12.34 mg/L (16GW32). With the exception of 16GW32, no other lower surficial aquifer monitoring wells contained DO concentrations greater than 5 µg/L, and only four monitoring wells contained DO concentrations greater than 0.5 mg/L. The low DO concentrations observed are indicative of favorable to ideal conditions for reductive dechlorination.

Nitrate/Nitrite

Nitrate was observed in four upper surficial aquifer monitoring wells at concentrations that ranged from 0.11 mg/L to 0.32 mg/L. Nitrate was only observed in one lower surficial aquifer monitoring well (16GW32) at a concentration of 0.26 mg/L. Nitrite was not observed in the upper or lower surficial aquifer. In general, nitrate does not appear to be present at significant concentrations, and therefore, nitrate reduction is not appear to be a significant electron acceptor process in this area.

Sulfide

Sulfide was detected in one upper surficial aquifer monitoring well (MW42) at a concentration of 10 mg/L. Sulfide was not observed in the lower surficial aquifer. Therefore, sulfate reduction does not appear to be a significant electron acceptor process in the downgradient portion of OU1.

Methane

Methane was observed in the majority of the upper surficial aquifer with detected concentrations that ranged from 8 µg/L (MW28) to 10,000 µg/L (16GW33). Only two upper surficial aquifer monitoring wells did not contain detectable concentrations of methane (16GW01 and 16GW05), neither of which are located within the plume extent. Methane was detected in the lower surficial aquifer at concentrations that ranged from 6.1 µg/L (16GW32) to 3,300J µg/L (16GW36). Overall, the methane data indicate the presence of strongly reducing conditions that are ideal for reductive dechlorination to occur.

Ethene/Ethane

Ethene was observed in one upper surficial aquifer monitoring well (16GW06) at a low concentration of 5.2J µg/L, and not observed within the lower surficial aquifer. Ethane was not observed in the upper surficial aquifer monitoring wells. However, ethane was observed at low concentrations in three lower surficial aquifer monitoring wells (16GW42, 16GW28, and 16GW41) at concentrations of 4.2J µg/L, 5 µg/L, 5.9 µg/L, respectively. These monitoring wells are located within the plume extent and indicate that reductive dechlorination is occurring to completion within the lower surficial aquifer in the downgradient portion of OU1.

TCE and daughter product concentrations in the downgradient portion of OU1 are much lower than in the Building 133 and IWTP area; therefore, higher concentrations of ethene and ethane would not be expected in this area.

Total Organic Carbon

TOC was observed at relatively low concentrations in the upper surficial aquifer, ranging from 1 mg/L (MW28) to 48 mg/L (16GW33). TOC was observed in the lower surficial aquifer at concentrations that ranged from 1.5 mg/L (16GW52) to 8.7 mg/L (16GW32). Although TOC is generally not present at concentrations ideal for reductive dechlorination, TOC appears to be present at concentrations sufficient to drive reductive dechlorination based on the presence of reductive dechlorination daughter products (discussed below).

Oxidation-Reduction Potential

In the upper surficial aquifer, ORP ranged from -140 mV to 331 mV. ORP in the lower surficial aquifer ranged from -162 mV to 303 mV. This ORP is within the range where reductive dechlorination occurs. The majority of ORP readings in the lower surficial aquifer were less than -100 mV. Therefore, the ORP in the lower surficial aquifer is in the range where reductive dechlorination is most efficient.

Chlorides

Chloride concentrations ranged from 6.4 mg/L (16GW11, 16GW37, and MW40) to 180 mg/L (MW42) in the upper surficial aquifer. The chloride concentrations detected in the downgradient area of OU1 were approximately 2 to 46 times higher than background concentrations (as represented by 14GW18 and 14GW49), indicating that reductive dechlorination is occurring.

In the lower surficial aquifer, chloride was detected a concentrations that ranged from 6.3 mg/L (MW43) to 29 mg/L (16GW34). Chloride concentrations were approximately 2 to 4 times higher in the plume area compared to the background concentrations. Therefore, reductive dechlorination appears to be occurring in the plume area.

Temperature and pH

Groundwater temperatures in the upper surficial aquifer ranged from 15.34^{0}C to 22.90^{0}C and pH ranged from 4.24 to 7.29. In the lower surficial aquifer, temperatures ranged from 12.87^{0}C to 22.90^{0}C and pH ranged from 6.32 to 7.51. Temperature and pH data are close to or within the ideal range for reductive dechlorination.

Daughter Products

Reductive dechlorination daughter products of TCE (1,2-DCE and VC) were detected in both the upper and lower surficial aquifers. The elevated concentrations of TCE daughter products and relatively high daughter product to parent compound ratios indicate that reductive dechlorination is occurring.

Downgradient Area Summary

Natural attenuation indicator parameters indicate favorable to ideal conditions for reductive dechlorination. The low DO and elevated methane concentrations indicate highly reducing conditions are present in this area. Temperature and pH are also close to or within the ideal range for reductive dechlorination to occur. Reductive dechlorination daughter product concentrations, including 1,2-DCE and vinyl chloride, indicate reductive dechlorination has occurred, likely to completion, at least in some areas. TOC is present within the aquifer and appears to be sufficient to drive reductive dechlorination to some extent, but degradation could likely be enhanced by addition of a carbon source.

Proposed Future Actions

Based on the findings and conclusions of the 2009 additional activities at OU1, the nature and extent of groundwater contamination has been delineated such that preparation of the FS of potential remedial alternatives for the OU1 Central Groundwater Plume should

proceed. Results from this investigation and the earlier OU1 RI Addendum will be summarized in the OU1 Central Groundwater Plume FS.

Results from the sampling of the Site 17 monitoring well (17GW03) should be incorporated into the Site 17 Supplemental Investigation report currently being prepared.

Since a monitoring well could not be installed at Site 16 due to adverse weather conditions, the monitoring well should be installed in the near future. Results from the sampling of this monitoring well, in addition to the results from the Site 83 monitoring well (16GW49), should be incorporated into the upcoming Sites 16 and 83 Focused Feasibility Study.

Since the extent of the chlorinated VOC groundwater plume in the upper surficial aquifer has been revised based on the findings of this investigation, the upcoming vapor intrusion investigation may need to evaluate and investigate new buildings of interest identified within 100 feet of the updated plume.

References

Brown and Root Environmental, 1996. *Focused Remedial Investigation/Feasibility Study Report for Operable Unit 1 Groundwater, Marine Corps Air Station Cherry Point.* February.

CH2M HILL, 2004. *Final Master Field Sampling Plan, Marine Corps Air Station Cherry Point, North Carolina*. November.

CH2M HILL, 2009. *Final OU1 Remedial Investigation Addendum Report, Marine Corps Air Station Cherry Point, North Carolina.* April.

TetraTech NUS, Inc., 2002. *Final Remedial Investigation Report for Operable Unit 1 (OU1). Marine Corps Air Station, Cherry Point, North Carolina*. November.

Tables

TABLE 1

Proposed Monitoring Well Network for Spring 2009 Sampling Event

Marine Corps Air Station Cherry Point, North Carolina

Site	Well ID	Aquifer	Sampled	Reason for Not Sampling
Site 14	14GW18	Upper	Yes	--
	14GW35	Upper	No	Unable to open due to a rusted well cap
	14GW39	Lower	No	Could not locate
	14GW49	Upper	Yes	--
	14GW51	Lower	Yes	--
Site 16	16GW01	Upper	Yes	--
	16GW02	Upper	Yes	--
	16GW03	Upper	Yes	--
	16GW04	Upper	Yes	--
	16GW05	Upper	Yes	--
	16GW06	Upper	Yes	--
	16GW08	Upper	Yes	--
	16GW09	Upper	Yes	--
	16GW10	Upper	Yes	--
	16GW11	Upper	Yes	--
	16GW16	Upper	Yes	--
	16GW21	Upper	Yes	--
	16GW28	Lower	Yes	--
	16GW29	Upper	Yes	--
	16GW30	Lower	Yes	--
	16GW31	Upper	Yes	--
	16GW32	Lower	Yes	--
	16GW33	Upper	Yes	--
	16GW34	Lower	Yes	--
	16GW35	Upper	Yes	--
	16GW36	Lower	Yes	--
	16GW37	Upper	Yes	--
	16GW40	Upper	Yes	--
	16GW41	Lower	Yes	--
	16GW42	Lower	Yes	--
	MW12	Upper	Yes	--
	MW18	Upper	No	Dry
	MW28	Upper	Yes	--
	MW40	Upper	Yes	--
	MW41	Lower	Yes	--
	MW42	Upper	Yes	--
	MW43	Lower	Yes	--
	MW44	Upper	Yes	--
	MW45	Lower	Yes	--
	MW48	Lower	Yes	--
	MW50	Upper	Yes	--
	MW51	Lower	Yes	--
	MW53	Lower	Yes	--
	MW55	Lower	Yes	--
	S3W3	Lower	Yes	--
	51EX18	Lower	Yes	--
	51EX19	Lower	Yes	--

TABLE 1

Proposed Monitoring Well Network for Spring 2009 Sampling Event

Marine Corps Air Station Cherry Point, North Carolina

Site	Well ID	Aquifer	Sampled	Reason for Not Sampling
Site 42	42GW05	Upper	Yes	--
	42GW08	Upper	Yes	--
	42GW15	Lower	Yes	--
	GW75	Upper	Yes	--
	GW76	Upper	Yes	--
	MW01	Lower	Yes	--
	MW37	Upper	Yes	--
	MW38	Upper	Yes	--
	MW39	Lower	Yes	--
	MW58	Upper	Yes	--
	MW59	Lower	Yes	--
	MW64	Lower	Yes	--
	51EX10	Upper	Yes	--
	51EX11	Upper	No	Compromised/Unable to sample
	N2GW15	Upper	Yes	--
	N2GW44	Upper	Yes	--
	N2GW27	Upper	Yes	--
	N2GW28	Upper	Yes	--
Site 47/ Bldg 137	47GW05	Upper	Yes	--
	47GW06	Lower	Yes	--
	47GW07	Upper	Yes	--
	47GW08	Lower	Yes	--
	47GW09	Upper	Yes	--
	47GW10	Lower	Yes	--
	47GW11	Lower	Yes	--
	47GW12	Upper	Yes	--
	47GW17	Upper	Yes	--
	47GW18	Upper	Yes	--
	47GW19	Upper	Yes	--
	47GW20	Upper	Yes	--
	47GW25	Lower	Yes	--
	51GW02	Upper	Yes	--
	MW20	Upper	Yes	--
	MW21	Lower	Yes	--
	MW23	Lower	Yes	--
Site 52/ Bldg 133	51EX12	Lower	Yes	--
	51EX13	Lower	Yes	--
	51EX14	Lower	No	Abandoned
	51EX15	Lower	No	Abandoned
	51EX16	Lower	Yes	--
	51EX17	Lower	Yes	--
	52GW01	Upper	Yes	--
	52GW07	Upper	Yes	--
	52GW08	Upper	Yes	--
	52GW10	Upper	Yes	--
	52GW11	Upper	Yes	--
	52GW15	Lower	Yes	--
	52GW16	Lower	Yes	--

TABLE 1

Proposed Monitoring Well Network for Spring 2009 Sampling Event

Marine Corps Air Station Cherry Point, North Carolina

Site	Well ID	Aquifer	Sampled	Reason for Not Sampling
	52GW17	Upper	Yes	--
	52GW18	Lower	Yes	--
	52GW19	Lower	Yes	--
	52GW20	Lower	Yes	--
	52GW21	Lower	Yes	--
	52GW22	Lower	Yes	--
	52GW23	Lower	Yes	--
	52GW24	Lower	Yes	--
	52GW25	Lower	No	Unable to locate
	52GW26	Lower	Yes	--
	52GW27	Lower	Yes	--
	52GW28	Upper	Yes	--
	52GW29	Lower	Yes	--
	52GW30	Lower	Yes	--
	52GW31	Upper	Yes	--
	52GW32	Lower	Yes	--
	52GW33	Upper	Yes	--
	52GW34	Lower	Yes	--
	52GW35	Upper	Yes	--
	52GW36	Lower	Yes	--
	52GW37	Upper	Yes	--
	52GW38	Lower	Yes	--
	52GW39	Upper	Yes	--
Site 52/	52GW40	Lower	Yes	--
Bldg 133	52GW41	Upper	Yes	--
	52GW42	Lower	Yes	--
	52GW43	Lower	Yes	--
	52GW44	Upper	Yes	--
	52GW45	Lower	Yes	--
	52GW46	Upper	Yes	--
	52GW47	Lower	Yes	--
	52GW48	Upper	Yes	--
	52GW49	Lower	Yes	--
	52GW50	Lower	Yes	--
	52GW51	Upper	Yes	--
	52GW52	Lower	Yes	--
	52GW53	Upper	Yes	--
	52GW54	Lower	Yes	--
	52GW55	Lower	Yes	--
	52GW56	Upper	Yes	--
	52GW57	Lower	Yes	--
	52GW58	Upper	Yes	--
	52GW59	Lower	Yes	--
	52GW60	Upper	Yes	--
	52GW61	Lower	Yes	--
	52GW62	Upper	Yes	--
	52GW63	Lower	Yes	--
	52GW64	Upper	Yes	--

TABLE 1

Proposed Monitoring Well Network for Spring 2009 Sampling Event

Marine Corps Air Station Cherry Point, North Carolina

Site	Well ID	Aquifer	Sampled	Reason for Not Sampling
Site 52/ Bldg 133	52GW65	Lower	Yes	--
	52GW66	Lower	Yes	--
	52GW67	Lower	Yes	--
	52GW68	Upper	Yes	--
	52GW69	Lower	Yes	--
	52GW70	Upper	Yes	--
	52GW71	Lower	Yes	--
	52GW72	Upper	Yes	--
	52GW73	Lower	Yes	--
	52GW74	Upper	Yes	--
	52GW75	Lower	No	Abandoned
	52GW76	Upper	Yes	--
	MW73	Upper	Yes	--
	N2GW03	Upper	No	Abandoned
	N2GW07	Upper	Yes	--
	N2GW17	Upper	Yes	--
	N2GW18	Upper	Yes	--
	N2GW25	Upper	Yes	--
	N2GW29	Upper	Yes	--
	N2GW36	Upper	Yes	--
	N2GW39	Upper	No	Abandoned
	N2GW41	Lower	Yes	--
	N2GW42	Lower	No	Abandoned
	N2GW75	Upper	Yes	--
	N4GW07	Upper	Yes	--
	N4GW09	Lower	Yes	--
	N4GW14	Upper	Yes	--
	N4GW22	Upper	No	Abandoned
	N5GW03	Upper	Yes	--

TABLE 2

Field Parameters - Spring 2009, Upper Surficial Aquifer

MCAS Cherry Point, North Carolina

Monitoring Well ID	Sample Date	Temperature (ºC)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)
14GW18	3/24/2009	20.01	0.213	2.46	6.44	109	202.0
14GW49	3/28/2009	20.10	0.400	6.65	6.75	101	424.0
16GW01	3/10/2009	22.90	0.147	0.92	4.78	331	27.2
16GW02	3/11/2009	18.78	0.531	0.51	5.98	53	50.6
16GW03	3/11/2009	21.00	0.384	0.00	6.07	-104	15.6
16GW04	3/11/2009	20.90	0.241	0.00	5.82	4	98.6
16GW05	3/30/2009	19.17	0.187	3.95	5.00	202	207.0
16GW06	3/13/2009	19.61	0.548	0.00	6.22	315	34.1
16GW08	3/28/2009	23.60	0.483	1.86	5.35	68	0.0
16GW09	3/11/2009	21.70	0.133	0.90	5.49	-14	74.1
16GW10	3/15/2009	23.50	0.144	3.10	5.28	329	22.5
16GW11	3/16/2009	17.42	0.321	5.80	6.40	394	79.3
16GW16	3/10/2009	22.30	0.215	0.15	6.23	181	833.0
16GW21	3/24/2009	16.70	0.281	0.00	6.05	-49	11.6
16GW29	3/13/2009	18.30	0.273	0.00	5.83	-7	38.0
16GW31	3/12/2009	19.50	0.775	0.00	7.29	-140	22.1
16GW33	3/12/2009	16.55	0.900	0.00	6.10	-18	228.0
16GW35	3/13/2009	19.10	0.338	0.69	6.41	143	337.0
16GW37	3/28/2009	19.30	0.479	0.16	6.19	18	0.0
16GW40	3/11/2009	21.10	0.163	0.13	5.38	160	35.6
16GW49	5/6/2009	20.04	0.183	0.00	4.24	219	57.3
17GW03	5/6/2009	17.95	0.292	2.87	7.15	-40	80.3
42GW05	3/25/2009	18.00	0.780	0.58	6.33	-71	26.2
42GW08	3/25/2009	19.30	0.810	1.49	5.52	211	1.5
42GW16	5/5/2009	20.96	0.643	0.00	7.23	-141	6.7
42GW18	5/5/2009	20.59	0.607	0.00	6.25	-106	34.4
42GW20	5/5/2009	19.88	0.266	0.00	6.32	-78	40.4
42GW22	5/5/2009	19.79	0.700	0.14	6.88	-105	10.3
47GW05	3/26/2009	23.30	0.692	0.49	5.68	1	2.8
47GW07	3/26/2009	22.84	0.622	0.00	5.73	-33	9.8
47GW09	3/27/2009	22.40	0.742	0.26	6.53	-99	8.9
47GW12	3/26/2009	24.90	0.346	0.22	5.39	41	0.9
47GW17	3/26/2009	26.40	58.000	0.36	5.45	35	8.3
47GW18	3/26/2009	21.76	0.555	0.50	6.35	12	144.0
47GW19	3/26/2009	23.60	50.300	0.42	6.20	-65	2.4
47GW20	3/27/2009	21.00	0.376	2.12	6.68	76	32.5
51EX10	3/27/2009	19.83	0.625	0.86	6.37	-38	153.0
51GW02	3/26/2009	24.90	0.558	0.51	5.15	112	10.2
52GW01	3/24/2009	25.20	5.900	0.40	5.81	-51	4.1
52GW07	3/24/2009	24.40	0.786	0.31	6.13	-44	111.0
52GW08	3/24/2009	25.00	0.860	0.32	6.19	-81	5.5
52GW10	3/24/2009	23.87	0.856	0.00	5.97	-18	4.4
52GW11	3/24/2009	23.89	0.841	0.00	5.80	-62	84.8
52GW17	3/22/2009	24.00	0.299	0.19	5.17	41	0.0
52GW28	3/20/2009	22.80	0.521	0.76	5.68	-7	146.0
52GW31	3/24/2009	20.50	0.300	0.00	5.02	79	136.0
52GW33	3/19/2009	25.40	0.195	0.74	5.27	74	90.2
52GW35	3/17/2009	25.00	0.896	1.28	6.53	-68	17.0
52GW37	3/17/2009	23.07	0.251	0.00	4.82	182	27.9
52GW39	3/18/2009	28.40	0.155	0.12	5.84	-28	115.0
52GW41	3/17/2009	26.90	0.286	0.28	5.98	-27	32.3
52GW44	3/19/2009	24.19	0.423	0.00	5.34	-7	38.3
52GW46	3/16/2009	22.67	0.344	0.00	4.70	160	86.9
52GW48	3/18/2009	21.15	0.533	9.26	4.79	190	0.0
52GW51	3/17/2009	23.91	0.399	0.00	5.98	31	22.1
52GW53	3/17/2009	24.30	0.168	0.47	4.98	99	17.2

TABLE 2

Field Parameters - Spring 2009, Upper Surficial Aquifer

MCAS Cherry Point, North Carolina

Monitoring Well ID	Sample Date	Temperature (ºC)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)
52GW56	3/18/2009	25.90	0.356	0.17	5.87	-89	19.0
52GW58	3/18/2009	24.40	0.242	0.37	4.75	53	0.0
52GW60	3/17/2009	20.74	0.371	0.00	4.97	89	27.3
52GW62	3/16/2009	23.90	0.335	0.45	5.80	39	28.0
52GW64	3/19/2009	20.94	0.451	0.00	5.10	114	128.0
52GW68	3/19/2009	23.00	0.446	0.28	6.13	-35	7.9
52GW70	3/17/2009	22.96	0.441	0.00	4.83	101	27.3
52GW72	3/18/2009	20.79	0.346	10.67	4.65	172	41.9
52GW74	3/19/2009	23.00	0.343	0.18	5.13	35	15.7
52GW76	3/22/2009	25.70	5.270	0.16	5.66	17	0.0
GW75	3/30/2009	19.77	0.495	0.51	6.37	-61	27.1
GW76	3/27/2009	22.10	0.590	0.27	6.22	-29	9.8
MW12	3/11/2009	16.40	0.724	0.00	6.78	-41	85.7
MW20	3/26/2009	22.20	0.384	2.90	6.90	65	6.7
MW28	3/12/2009	22.00	0.129	3.20	5.28	297	22.2
MW37	3/27/2009	20.80	0.927	0.22	4.56	252	0.0
MW38	3/13/2009	17.20	0.411	0.00	6.34	-10	73.5
MW40	3/29/2009	17.50	0.970	0.00	5.41	53	13.7
MW42	3/29/2009	15.34	0.714	0.49	5.75	-50	53.9
MW44	3/25/2009	19.90	0.257	0.21	6.04	-37	33.3
MW50	3/10/2009	15.80	0.324	0.79	6.37	-115	8.7
MW58	3/28/2009	18.30	0.234	2.34	5.58	114	112.0
MW73	3/27/2009	12.38	0.919	0.45	7.17	-143	421.0
N2GW07	3/23/2009	21.48	0.488	0.23	5.36	-12	185.0
N2GW15	3/22/2009	25.60	0.196	0.20	5.10	60	14.3
N2GW17	3/20/2009	--	--	--	--	--	--
N2GW18	3/24/2009	--	--	--	--	--	--
N2GW25	3/29/2009	23.00	0.430	0.39	6.24	109	0.0
N2GW27	3/22/2009	26.37	0.668	0.00	5.72	-61	8.4
N2GW28	3/22/2009	25.00	0.807	0.22	5.73	-14	0.0
N2GW29	3/20/2009	23.00	0.303	0.33	6.40	-65	0.0
N2GW36	3/29/2009	21.60	0.665	0.27	6.23	-88	0.0
N2GW44	3/24/2009	22.70	0.621	0.71	6.47	-59	14.9
N2GW75	3/25/2009	22.11	0.633	0.00	5.68	-31	36.0
N4GW07	3/16/2009	22.90	0.196	0.17	5.36	-7	11.8
N4GW14	3/30/2009	18.10	0.670	1.70	6.22	173	22.1
N5GW03	3/30/2009	20.60	0.721	0.31	6.24	-29	20.8

Notes:

ºC = degree Celsius

mS = micro Siemens

cm = centimeter

DO = dissolved oxygen

mg = milligram

L = liter

ORP = oxidation reduction potential

mV = millivolts

NTU = nephelometric turbidity units

-- = data not available

TABLE 3

Field Parameters - Spring 2009, Lower Surficial Aquifer

MCAS Cherry Point, North Carolina

Monitoring Well ID	Sample Date	Temperature (ºC)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)
14GW51	3/27/2009	21.77	0.862	0.57	7.04	-116	4.2
14GW53	5/6/2009	23.62	0.780	0.00	7.15	-143	29.9
16GW28	3/13/2009	20.80	0.735	0.72	6.96	-104	72.1
16GW30	3/12/2009	21.60	0.554	0.31	7.09	-124	11.5
16GW32	3/13/2009	12.87	0.346	12.34	7.34	303	15.9
16GW34	3/13/2009	20.20	1.27	0.09	6.71	-40	16.3
16GW36	3/28/2009	21.40	0.450	0.39	6.91	-109	0.0
16GW41	3/11/2009	21.30	0.403	0.20	6.97	-162	62.4
16GW42	3/11/2009	21.90	0.464	0.06	7.02	-114	22.2
16GW50	5/7/2009	21.69	0.524	2.19	6.32	-120	18.7
16GW51	5/6/2009	22.55	0.541	0.45	6.41	-153	15.0
16GW52	5/6/2009	22.90	0.620	0.37	6.47	-155	24.1
42GW15	3/28/2009	20.92	0.691	0.48	7.16	-106	7.2
42GW17	5/6/2009	21.06	0.678	0.41	6.46	-159	4.7
42GW19	5/5/2009	21.10	0.411	0.41	7.15	-178	102.0
42GW21	5/5/2009	20.70	0.315	0.96	6.07	-6	6.0
42GW23	5/5/2009	19.47	0.682	0.40	6.82	-153	12.5
47GW06	3/26/2009	23.90	0.370	0.55	5.86	-6	1.3
47GW08	3/25/2009	24.00	26.000	0.41	5.74	15	0.0
47GW10	3/27/2009	23.10	0.342	0.70	6.15	57	11.7
47GW11	3/26/2009	22.60	0.440	0.69	6.09	-20	406.0
47GW25	3/26/2009	21.78	0.798	0.00	6.07	-53	169.0
51EX12	3/29/2009	20.30	0.723	4.37	5.50	113	52.8
51EX13	3/25/2009	20.80	0.838	0.06	5.76	88	31.4
51EX16	3/25/2009	21.32	0.760	0.00	6.09	-50	83.7
51EX17	3/25/2009	20.65	0.567	0.00	5.44	37	45.5
51EX18	3/28/2009	22.16	0.422	0.51	6.74	-24	150.0
51EX19	3/28/2009	22.34	0.361	0.83	6.41	-18	309.0
52GW15	3/20/2009	22.78	0.561	0.19	6.35	-14	40.1
52GW16	3/22/2009	22.55	0.520	1.05	6.42	-76	197.0
52GW18	3/22/2009	25.00	0.182	0.33	5.25	77	5.8
52GW19	3/20/2009	23.34	0.661	0.00	6.23	-79	142.0
52GW20	3/23/2009	23.30	0.876	0.00	6.76	-104	89.3
52GW21	3/24/2009	21.02	0.635	0.00	6.32	-75	137.0
52GW22	3/23/2009	23.50	0.572	2.53	6.78	-113	0.0
52GW23	3/23/2009	21.41	0.546	9.99	6.49	-84	62.9
52GW24	3/20/2009	21.76	0.795	0.00	6.48	-76	2.3
52GW26	2/23/2009	23.50	0.517	0.14	6.85	-119	18.2
52GW27	3/20/2009	24.20	0.324	2.40	5.38	49	27.9
52GW29	3/20/2009	24.30	0.476	0.09	6.76	-114	35.7
52GW30	3/24/2009	22.20	6.040	0.15	6.85	-115	4.3
52GW32	3/19/2009	25.70	0.342	0.25	6.06	-19	50.8
52GW34	3/17/2009	25.10	0.392	0.21	6.18	-30	14.5
52GW36	3/17/2009	22.72	0.432	0.00	6.80	-63	38.7
52GW38	3/18/2009	26.70	0.458	0.30	6.54	-80	69.9
52GW40	3/17/2009	26.60	0.258	0.21	6.01	-1	39.5
52GW42	3/18/2009	23.49	0.381	9.09	6.07	7	362.0
52GW43	3/19/2009	24.90	0.459	0.07	6.70	-91	40.3
52GW45	3/17/2009	22.10	0.435	0.00	6.81	-60	85.6
52GW47	3/18/2009	20.48	0.428	9.19	6.61	-3	181.0
52GW49	3/30/2009	23.40	5.390	0.40	6.96	-129	6.8
52GW50	3/17/2009	24.19	0.285	0.00	5.40	185	59.9
52GW52	3/17/2009	23.40	0.330	0.04	7.24	-124	171.0
52GW54	3/19/2009	26.82	0.334	0.00	6.12	-23	112.0
52GW55	3/18/2009	26.00	0.224	0.18	5.93	-5	22.2
52GW57	3/18/2009	25.00	0.160	0.29	5.45	55	31.7
52GW59	3/19/2009	21.04	0.262	0.00	5.33	50	43.3

TABLE 3

Field Parameters - Spring 2009, Lower Surficial Aquifer

MCAS Cherry Point, North Carolina

Monitoring Well ID	Sample Date	Temperature (ºC)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)
52GW61	3/16/2009	23.10	0.332	0.10	7.20	-117	40.3
52GW63	3/19/2009	20.74	0.433	0.00	6.42	-27	5.4
52GW65	3/19/2009	22.80	0.255	0.15	5.75	14	138.0
52GW66	3/19/2009	22.60	0.276	0.23	6.36	-22	203.0
52GW67	3/19/2009	22.50	0.415	0.13	6.91	-97	145.0
52GW69	3/17/2009	23.61	0.187	0.00	5.30	101	96.4
52GW71	3/18/2009	20.02	0.158	10.26	5.10	113	0.0
52GW73	3/19/2009	23.10	0.444	0.14	7.13	-121	40.5
MW01	3/25/2009	22.30	0.999	1.75	5.61	38	0.8
MW21	3/26/2009	24.10	0.560	2.37	6.72	-55	3.4
MW23	3/26/2009	24.70	0.230	0.70	6.55	-114	0.5
MW39	3/13/2009	18.57	0.616	0.00	6.78	-60	129.0
MW41	3/29/2009	17.11	0.487	0.48	7.35	-136	14.5
MW43	3/29/2009	20.00	0.457	0.38	6.97	-128	0.0
MW45	3/29/2009	18.38	0.467	0.61	7.51	-128	15.2
MW48	3/11/2009	18.83	0.515	0.00	6.81	-76	108.0
MW51	3/10/2009	21.60	0.447	0.08	7.25	-140	75.4
MW53	3/15/2009	23.70	0.395	0.13	7.11	-87	17.2
MW55	3/15/2009	23.70	0.309	0.05	7.26	-135	8.2
MW59	3/16/2009	19.47	0.680	0.00	6.54	-38	91.9
MW64	3/24/2009	22.47	0.652	0.00	6.26	-31	175.0
N2GW41	3/20/2009	23.04	0.375	0.96	5.90	67	31.7
N4GW09	3/16/2009	22.90	0.001	9.20	6.05	166	50.3
S3W3	3/12/2009	22.50	0.432	0.04	6.80	-77	47.3

Notes:

ºC = degree Celsius

mS = micro Siemens

cm = centimeter

DO = dissolved oxygen

mg = milligram

L = liter

ORP = oxidation reduction potential

mV = millivolts

NTU = nephelometric turbidity units

TABLE 4

Well Construction Table

Marine Corps Air Station Cherry Point, North Carolina

Site	Well ID	Date Completed	Northing	Easting	Aquifer	Ground Elevation (amsl)	Top of Casing Elevation (amsl)	Well Diameter (inches)	Total Well Depth (ft bgs)	Sample Interval (ft bgs)
Site 14	14GW53	4/21/2009	424015.05	2629877.07	Lower	18.47	18.11	2	43	33-43
Site 16	16GW49	4/24/2009	420939.06	2628045.21	Upper	3.81	6.11	2	18	8-18
	16GW50	4/22/2009	421730.74	2628050.21	Lower	21.94	24.41	2	50	40-50
	16GW51	4/21/2009	421454.56	2628102.14	Lower	24.30	26.73	2	50	40-50
	16GW52	4/20/2009	421217.68	2628603.83	Lower	23.11	22.77	2	45	35-45
Site 17	17GW03	4/17/2009	421279.21	2629956.41	Upper	16.33	19.15	2	18	8-18
Site 42	42GW16	4/16/2009	423793.86	2629092.31	Upper	13.25	12.89	2	30	20-30
	42GW17	4/15/2009	423787.09	2629084.55	Lower	13.23	12.72	2	47	37-47
	42GW18	4/19/2009	423307.25	2628588.99	Upper	9.58	12.18	2	23	13-23
	42GW19	4/19/2009	423300.24	2628582.28	Lower	9.59	12.19	2	41	31-41
	42GW20	4/16/2009	423245.49	2627957.41	Upper	11.77	14.40	2	25	15-25
	42GW21	4/16/2009	423255.04	2627955.92	Lower	11.72	14.15	2	41	31-41
	42GW22	4/17/2009	422686.79	2628303.76	Upper	15.89	18.83	2	30	20-30
	42GW23	4/17/2009	422680.60	2628295.75	Lower	15.92	18.78	2	50	40-50

TABLE 5
Groundwater Elevations, Upper Surficial Aquifer Monitoring Wells
Marine Corps Air Station Cherry Point, North Carolina

Well ID	Reference Point Elevation (ft msl)	Screened Interval (ft bgs)	Depth to Water Spring 2006 (ft btoc)	Groundwater Elevation Spring 2006 (ft msl)	Depth to Water Fall 2008 (ft btoc)	Groundwater Elevation Fall 2008 (ft msl)	Depth to Water Spring 2009 (ft btoc)	Groundwater Elevation Spring 2009 (ft msl)
14GW18	26.07	16 - 26	NM	NM	NM	NM	13.46	12.61
14GW49	--	5 - 15	NM	NM	NM	NM	7.28	--
16GW01	24.67	10 - 25	20.42	4.25	NM	NM	20.45	4.22
16GW02	7.43	10 - 25	5.95	1.48	4.90	2.53	6.35	1.08
16GW03	8.27	10 - 25	6.79	1.48	5.84	2.43	7.28	0.99
16GW04	6.90	10 - 25	5.09	1.81	4.30	2.60	5.60	1.30
16GW05	26.33	10 - 25	21.72	4.61	NM	NM	21.68	4.65
16GW06	18.41	10 - 25	14.51	3.90	NM	NM	14.18	4.23
16GW08	23.65	17 - 27	18.27	5.38	NM	NM	18.05	5.60
16GW09	24.07	16 - 26	NM	NM	NM	NM	15.50	8.57
16GW10	20.51	10 - 25	15.9	4.61	NM	NM	15.62	4.89
16GW11	23.44	12 - 27	NM	NM	NM	NM	13.75	9.69
16GW16	11.48	10 - 25	7.42	4.06	NM	NM	7.57	3.91
16GW21	18.80	3 - 13	NM	NM	NM	NM	6.85	11.95
16GW29	10.52	5 - 15	7.87	2.65	7.27	3.25	8.23	2.29
16GW31	18.84	11 - 21	15.95	2.89	NM	NM	15.80	3.04
16GW33	15.06	9 - 19	11.64	3.42	NM	NM	11.20	3.86
16GW35	11.60	5 - 15	9.23	2.37	8.42	3.18	8.62	2.98
16GW37	7.28	5 - 15	4.13	3.15	NM	NM	3.71	3.57
16GW40	8.69	15 - 25	NM	NM	7.25	1.44	8.62	0.07
16GW49	6.11	20-30	NM	NM	NM	NM	3.80	2.31
17GW03	19.15	8-18	NM	NM	NM	NM	8.49	10.66
42GW05	15.47	1 - 11	4.6	10.87	NM	NM	4.61	10.86
42GW08	21.59	3 - 15	10.77	10.82	NM	NM	10.61	10.98
42GW16	12.89	20-30	NM	NM	NM	NM	6.10	6.79
42GW18	12.18	13-23	NM	NM	NM	NM	7.45	4.73
42GW20	14.40	15-25	NM	NM	NM	NM	10.50	3.90
42GW22	18.83	20-30	NM	NM	NM	NM	15.57	3.26
47GW05	24.46	10 - 20	9.35	15.11	NM	NM	9.11	15.35
47GW07	24.36	7 - 17	9.36	15.00	NM	NM	9.16	15.20
47GW09	23.49	15 - 25	8.57	14.92	NM	NM	8.15	15.34
47GW12	23.514	7 - 17	NM	NM	NM	NM	9.59	13.92
47GW17	23.32	9 - 19	NM	NM	NM	NM	9.02	14.30
47GW18	23.51	8 - 18	NM	NM	NM	NM	9.18	14.33

TABLE 5
Groundwater Elevations, Upper Surficial Aquifer Monitoring Wells
Marine Corps Air Station Cherry Point, North Carolina

Well ID	Reference Point Elevation (ft msl)	Screened Interval (ft bgs)	Depth to Water Spring 2006 (ft btoc)	Groundwater Elevation Spring 2006 (ft msl)	Depth to Water Fall 2008 (ft btoc)	Groundwater Elevation Fall 2008 (ft msl)	Depth to Water Spring 2009 (ft btoc)	Groundwater Elevation Spring 2009 (ft msl)
47GW19	23.53	8 - 18	NM	NM	NM	NM	9.21	14.32
47GW20	23.18	7 - 17	NM	NM	NM	NM	8.74	14.44
51EX10	14.24	18 - 38	4.22	10.02	NM	NM	3.96	10.28
51GW02	23.93	5 - 15	9.22	14.71	NM	NM	8.92	15.01
52GW01	21.98	5 - 15	9.22	12.76	NM	NM	9.16	12.82
52GW07	21.1	10 - 20	NM	NM	NM	NM	9.18	11.92
52GW08	21.08	8 - 18	NM	NM	NM	NM	9.38	11.70
52GW10	21.11	8 - 18	NM	NM	NM	NM	9.49	11.62
52GW11	21.10	8 - 18	NM	NM	NM	NM	9.59	11.51
52GW17	21.45	20 - 30	11.23	10.22	NM	NM	11.05	10.40
52GW28	20.65	20 - 30	9.83	10.82	NM	NM	9.66	10.99
52GW31	20.57	20 - 30	10.82	9.75	NM	NM	10.68	9.89
52GW33	21.03	20 - 30	9.86	11.17	NM	NM	9.56	11.47
52GW35	21.05	20 - 30	10.19	10.86	NM	NM	9.97	11.08
52GW37	21.04	20 - 30	10.70	10.34	NM	NM	10.59	10.45
52GW39	20.37	20 - 30	8.71	11.66	NM	NM	8.36	12.01
52GW41	20.99	20 - 30	9.55	11.44	NM	NM	9.23	11.76
52GW44	20.91	20 - 30	10.10	10.81	NM	NM	9.92	10.99
52GW46	21.02	20 - 30	10.63	10.39	NM	NM	10.50	10.52
52GW48	21.08	20 - 30	10.60	10.48	NM	NM	10.60	10.48
52GW51	21.01	20 - 30	9.44	11.57	NM	NM	9.30	11.71
52GW53	21.03	20 - 30	7.17	13.86	NM	NM	9.95	11.08
52GW56	21.10	20 - 30	9.20	11.90	NM	NM	8.83	12.27
52GW58	21.08	20 - 30	9.34	11.74	NM	NM	8.99	12.09
52GW60	21.14	20 - 30	9.52	11.62	NM	NM	9.20	11.94
52GW62	21.14	20 - 30	10.04	11.10	NM	NM	9.83	11.31
52GW64	17.95	20 - 30	7.05	10.90	NM	NM	6.91	11.04
52GW68	17.50	20 - 30	7.45	10.05	NM	NM	7.18	10.32
52GW70	21.11	20 - 30	9.05	12.06	NM	NM	11.65	9.46
52GW72	18.73	20 - 30	6.39	12.34	NM	NM	5.98	12.75
52GW74	18.61	20 - 30	6.65	11.96	NM	NM	6.07	12.54
52GW76	20.94	20 - 30	10.86	10.08	NM	NM	10.97	9.97
GW75	12.65	20 - 30	7.39	5.26	7.03	5.62	6.82	5.83
GW76	13.87	20 - 30	6.12	7.75	NM	NM	5.84	8.03

TABLE 5
Groundwater Elevations, Upper Surficial Aquifer Monitoring Wells
Marine Corps Air Station Cherry Point, North Carolina

Well ID	Reference Point Elevation (ft msl)	Screened Interval (ft bgs)	Depth to Water Spring 2006 (ft btoc)	Groundwater Elevation Spring 2006 (ft msl)	Depth to Water Fall 2008 (ft btoc)	Groundwater Elevation Fall 2008 (ft msl)	Depth to Water Spring 2009 (ft btoc)	Groundwater Elevation Spring 2009 (ft msl)
MW12	5.49	3 - 13	3.63	1.86	NM	NM	4.26	1.23
MW20	23.06	6 - 16	7.75	15.31	NM	NM	7.64	15.42
MW28	23.23	12 - 24	19.38	3.85	NM	NM	19.48	3.75
MW37	13.15	2 - 12	NM	NM	NM	NM	6.75	6.40
MW38	6.96	3 - 13	3.89	3.07	NM	NM	3.02	3.94
MW40	5.84	2 - 12	4.7	1.14	NM	NM	3.56	2.28
MW42	5.79	2 - 12	3.44	2.35	NM	NM	3.49	2.30
MW44	5.69	2 - 12	3.27	2.42	NM	NM	3.56	2.13
MW50	6.94	3 - 13	3.49	3.45	NM	NM	4.01	2.93
MW58	15.39	3 - 13	NM	NM	NM	NM	4.46	10.93
MW73	18.19	5 - 15	5.24	12.95	NM	NM	5.15	13.04
N2GW07	23.05	20 - 30	14.17	8.88	NM	NM	11.74	11.31
N2GW15	22.73	20 - 30	NM	NM	NM	NM	12.15	10.58
N2GW17	24.64	12.9 - 22.9	13.99	10.65	NM	NM	13.62	11.02
N2GW18	24.64	7.5 - 17.5	13.61	11.03	NM	NM	14.11	10.53
N2GW25	20.93	4.9 - 14.5	8.84	12.09	NM	NM	8.72	12.21
N2GW27	21.33	5 - 15	9.91	11.42	NM	NM	9.77	11.56
N2GW28	22.12	5 - 15	10.44	11.68	NM	NM	10.30	11.82
N2GW29	21.72	5 - 15	NM	NM	NM	NM	10.09	11.63
N2GW36	21.36	5 - 15	9.44	11.92	NM	NM	9.22	12.14
N2GW44	13.95	30.5 - 35.5	NM	NM	NM	NM	4.37	9.58
N2GW75	--	--	NM	NM	NM	NM	10.59	--
N4GW07	21.71	8 - 18	9.44	12.27	NM	NM	9.80	11.91
N4GW14	18.06	5 - 15	5.62	12.44	NM	NM	5.70	12.36
N5GW03	21.91	6 - 16	NM	NM	NM	NM	9.42	12.49

Notes:
ft msl - feet, (elevation relative to) mean sea level
ft btoc - feet below top of casing
-- Data Unavailable
NM - Not measured

TABLE 6

Groundwater Elevations, Lower Surficial Aquifer Monitoring Wells

Marine Corps Air Station Cherry Point, North Carolina

Well ID	Reference Point Elevation (ft msl)	Screened Interval (ft bgs)	Depth to Water Spring 2006 (ft btoc)	Groundwater Elevation Spring 2006 (ft msl)	Depth to Water Fall 2008 (ft btoc)	Groundwater Elevation Fall 2008 (ft msl)	Depth to Water Spring 2009 (ft btoc)	Groundwater Elevation Spring 2009 (ft msl)
14GW51	--	45 - 50	NM	NM	NM	NM	11.01	--
14GW53	18.11	33-43	NM	NM	NM	NM	7.70	10.41
16GW28	10.84	35.5 - 45.5	NM	NM	8.06	2.78	7.26	3.58
16GW30	18.92	45 - 55	NM	NM	NM	NM	15.71	3.21
16GW32	15.32	44 - 54	NM	NM	NM	NM	11.84	3.48
16GW34	11.10	36.5 - 46.5	8.65	2.45	8.10	3.00	8.06	3.04
16GW36	7.43	32 - 42	NM	NM	NM	NM	3.86	3.57
16GW41	8.65	35 - 45	NM	NM	7.36	1.29	8.82	-0.17
16GW42	7.51	35 - 45	NM	NM	6.14	1.37	7.42	0.09
16GW50	24.41	40-50	NM	NM	NM	NM	21.50	2.91
16GW51	26.73	40-50	NM	NM	NM	NM	23.70	3.03
16GW52	22.77	35-45	NM	NM	NM	NM	17.40	5.37
42GW15	12.83	36 - 46	NM	NM	7.25	5.58	6.99	5.84
42GW17	12.72	37-47	NM	NM	NM	NM	6.10	6.62
42GW19	12.19	31-41	NM	NM	NM	NM	7.50	4.69
42GW21	14.15	31-41	NM	NM	NM	NM	10.25	3.9
42GW23	18.78	40-50	NM	NM	NM	NM	15.66	3.12
47GW06	24.49	39 - 49	9.67	14.82	NM	NM	9.46	15.03
47GW08	24.29	40 - 50	9.46	14.83	NM	NM	9.25	15.04
47GW10	22.42	37.5 - 47.5	NM	NM	NM	NM	8.31	14.11
47GW11	24.25	40 - 50	9.51	14.74	NM	NM	9.31	14.94
47GW25	20.75	33 - 43	NM	NM	8.55	12.20	8.55	12.20
51EX12	20.12	30 - 50	10.28	9.84	NM	NM	10.70	9.42
51EX13	19.40	30 - 50	9.39	10.01	NM	NM	9.02	10.38
51EX16	20.94	30 - 50	11.87	9.07	NM	NM	11.70	9.24
51EX17	20.02	30 - 50	11.10	8.92	NM	NM	10.90	9.12
51EX18	18.08	30 - 50	12.80	5.28	NM	NM	12.50	5.58
51EX19	18.66	30 - 50	13.08	5.58	NM	NM	12.85	5.81
52GW15	20.42	43 - 53	10.36	10.06	NM	NM	10.06	10.36
52GW16	21.42	40 - 50	11.92	9.50	NM	NM	11.63	9.79
52GW18	22.60	45 - 55	13.83	8.77	NM	NM	13.25	9.35
52GW19	22.11	44 - 54	13.55	8.56	NM	NM	12.93	9.18
52GW20	22.10	42 - 52	12.98	9.12	NM	NM	12.70	9.40

TABLE 6

Groundwater Elevations, Lower Surficial Aquifer Monitoring Wells

Marine Corps Air Station Cherry Point, North Carolina

Well ID	Reference Point Elevation (ft msl)	Screened Interval (ft bgs)	Depth to Water Spring 2006 (ft btoc)	Groundwater Elevation Spring 2006 (ft msl)	Depth to Water Fall 2008 (ft btoc)	Groundwater Elevation Fall 2008 (ft msl)	Depth to Water Spring 2009 (ft btoc)	Groundwater Elevation Spring 2009 (ft msl)
52GW21	21.47	43 - 53	12.63	8.84	NM	NM	12.39	9.08
52GW22	22.26	40 - 50	13.03	9.23	NM	NM	12.72	9.54
52GW23	20.69	43 - 53	11.87	8.82	NM	NM	11.60	9.09
52GW24	20.50	42 - 52	11.00	9.50	NM	NM	10.70	9.80
52GW26	20.42	40 - 50	11.67	9.08	NM	NM	11.40	9.02
52GW27	20.75	40 - 50	10.43	10.52	NM	NM	10.12	10.63
52GW29	20.95	43 - 53	11.10	9.60	NM	NM	10.81	10.14
52GW30	20.70	40 - 50	11.69	9.30	NM	NM	11.45	9.25
52GW32	20.99	40 - 50	10.35	10.63	NM	NM	10.03	10.96
52GW34	20.98	40 - 50	10.64	10.39	NM	NM	10.30	10.68
52GW36	21.03	40 - 50	11.14	9.33	NM	NM	10.84	10.19
52GW38	20.47	40 - 50	9.28	11.73	NM	NM	8.99	11.48
52GW40	21.01	39 - 49	10.08	10.95	NM	NM	9.76	11.25
52GW42	21.03	45 - 55	10.35	10.63	NM	NM	10.30	10.73
52GW43	20.98	45 - 55	10.69	10.31	NM	NM	10.39	10.59
52GW45	21.00	44 - 54	11.11	10.97	NM	NM	10.83	10.17
52GW47	22.08	44 - 54	11.21	9.07	NM	NM	10.95	11.13
52GW49	20.28	42 - 52	10.59	10.43	NM	NM	10.16	10.12
52GW50	21.02	40 - 50	9.99	11.00	NM	NM	9.71	11.31
52GW52	20.99	44 - 54	10.67	9.33	NM	NM	10.39	10.60
52GW54	20.00	43 - 53	10.14	10.91	NM	NM	9.82	10.18
52GW55	21.05	40 - 50	9.83	11.23	NM	NM	9.51	11.54
52GW57	21.06	41 - 51	9.97	11.09	NM	NM	9.64	11.42
52GW59	21.11	40 - 50	10.23	10.88	NM	NM	9.91	11.20
52GW61	21.05	40 - 50	10.61	10.44	NM	NM	10.35	10.70
52GW63	17.93	45 - 55	7.51	10.42	NM	NM	7.23	10.70
52GW65	17.84	40 - 50	7.69	10.15	NM	NM	7.38	10.46
52GW66	18.00	38 - 48	8.16	9.84	NM	NM	7.85	10.15
52GW67	17.34	40 - 50	7.59	9.75	NM	NM	7.29	10.05
52GW69	21.10	40 - 50	9.79	11.31	NM	NM	10.10	11.00
52GW71	18.69	36 - 46	7.24	11.45	NM	NM	6.91	11.78
52GW73	18.67	39 - 49	7.59	11.08	NM	NM	7.10	11.57
MW01	13.56	25.9 - 35.9	2.75	10.81	NM	NM	2.56	11.00

TABLE 6

Groundwater Elevations, Lower Surficial Aquifer Monitoring Wells

Marine Corps Air Station Cherry Point, North Carolina

Well ID	Reference Point Elevation (ft msl)	Screened Interval (ft bgs)	Depth to Water Spring 2006 (ft btoc)	Groundwater Elevation Spring 2006 (ft msl)	Depth to Water Fall 2008 (ft btoc)	Groundwater Elevation Fall 2008 (ft msl)	Depth to Water Spring 2009 (ft btoc)	Groundwater Elevation Spring 2009 (ft msl)
MW21	22.16	39 - 49	NM	NM	NM	NM	8.59	13.57
MW23	23.28	38 - 48	9.05	14.23	NM	NM	8.88	14.40
MW39	6.92	25 - 35	3.86	3.06	NM	NM	2.91	4.01
MW41	5.62	31 - 41	NM	NM	NM	NM	3.24	2.38
MW43	3.73	32.5 - 42.5	NM	NM	NM	NM	4.76	-1.03
MW45	5.71	35 - 45	NM	NM	NM	NM	3.25	2.46
MW48	5.63	32 - 42	3.70	1.93	NM	NM	4.24	1.39
MW51	6.98	31 - 41	3.19	3.79	NM	NM	3.34	3.64
MW53	23.47	44 - 54	14.87	8.60	NM	NM	16.30	7.17
MW55	21.26	42 - 52	NM	NM	NM	NM	16.87	4.39
MW59	17.86	32 - 42	7.64	13.62	NM	NM	7.40	10.46
MW64	16.24	35 - 45	7.10	10.76	NM	NM	6.81	9.43
N2GW41	20.73	45 - 50	NM	NM	NM	NM	8.51	12.22
N4GW09	21.67	45 - 50	10.66	11.01	NM	NM	10.41	11.26
S3W3	21.52	38 - 48	17.74	3.78	NM	NM	17.80	3.72

Notes:

ft msl - feet, (elevation relative to) mean sea level

ft btoc - feet below top of casing

-- Data Unavailable

NM - Not measured

TABLE 7

Vertical Gradients - Spring 2009

Marine Corps Air Station Cherry Point, North Carolina

Well ID	Reference Point Elevation (ft msl)	Screened Interval (ft bgs)	Aquifer	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Vertical Gradient (ft/ft)	Upward or Downward Gradient
Downward Vertical Gradients within the Surficial Aquifer							
16GW33	15.06	9 - 19	Upper Surficial Aquifer	11.20	3.86	-0.011	Downward
16GW32	15.32	44 - 54	Lower Surficial Aquifer	11.84	3.48		
16GW40	8.69	15 - 25	Upper Surficial Aquifer	8.62	0.07	-0.010	
16GW41	8.65	35 - 45	Lower Surficial Aquifer	8.82	-0.17		
16GW04	6.9	10 - 25	Upper Surficial Aquifer	5.6	1.30	-0.049	
16GW42	7.51	35 - 45	Lower Surficial Aquifer	7.42	0.09		
16GW10	20.51	10 - 25	Upper Surficial Aquifer	15.62	4.89	-0.019	
MW55	21.26	42 - 52	Lower Surficial Aquifer	16.87	4.39		
16GW11	23.44	12 - 27	Upper Surficial Aquifer	13.75	9.69	-0.093	
MW53	23.47	44 - 54	Lower Surficial Aquifer	16.30	7.17		
42GW16	12.89	20-30	Upper Surficial Aquifer	6.10	6.79	-0.010	
42GW17	12.72	37-47	Lower Surficial Aquifer	6.10	6.62		
42GW18	12.18	13-23	Upper Surficial Aquifer	7.45	4.73	-0.002	
42GW19	12.19	31-41	Lower Surficial Aquifer	7.50	4.69		
42GW20	14.40	7 - 17	Upper Surficial Aquifer	10.50	3.90	0.000	
42GW21	14.15	31-41	Lower Surficial Aquifer	10.25	3.90		
42GW22	18.83	20-30	Upper Surficial Aquifer	15.57	3.26	-0.007	
42GW23	18.78	40-50	Lower Surficial Aquifer	15.66	3.12		
47GW07	24.36	7 - 17	Upper Surficial Aquifer	9.16	15.20	-0.005	
47GW08	24.29	40 - 50	Lower Surficial Aquifer	9.25	15.04		
47GW05	24.46	10 - 20	Upper Surficial Aquifer	9.11	15.35	-0.011	
47GW06	24.49	39 - 49	Lower Surficial Aquifer	9.46	15.03		
47GW09	23.49	15 - 25	Upper Surficial Aquifer	8.15	15.34	-0.055	
47GW10	22.42	37.5 - 47.5	Lower Surficial Aquifer	8.31	14.11		
51GW02	23.93	5 - 15	Upper Surficial Aquifer	8.92	15.01	-0.002	
47GW11	24.25	40 - 50	Lower Surficial Aquifer	9.31	14.94		
52GW31	20.57	20 - 30	Upper Surficial Aquifer	10.68	9.89	-0.032	
52GW30	20.70	40 - 50	Lower Surficial Aquifer	11.45	9.25		
52GW46	21.02	20 - 30	Upper Surficial Aquifer	10.50	10.52	-0.015	
52GW45	21.00	44 - 54	Lower Surficial Aquifer	10.83	10.17		
52GW53	21.03	20 - 30	Upper Surficial Aquifer	9.95	11.08	-0.020	
52GW52	20.99	44 - 54	Lower Surficial Aquifer	10.39	10.60		
52GW56	21.10	20 - 30	Upper Surficial Aquifer	8.83	12.27	-0.037	
52GW55	21.05	40 - 50	Lower Surficial Aquifer	9.51	11.54		
52GW62	21.14	20 - 30	Upper Surficial Aquifer	9.83	11.31	-0.024	
52GW61	21.05	45 - 55	Lower Surficial Aquifer	10.35	10.70		
52GW64	17.95	20 - 30	Upper Surficial Aquifer	6.91	11.04	-0.017	
52GW63	17.93	40 - 50	Lower Surficial Aquifer	7.23	10.70		
52GW68	17.50	20 - 30	Upper Surficial Aquifer	7.18	10.32	-0.014	
52GW67	17.34	40 - 50	Lower Surficial Aquifer	7.29	10.05		
52GW74	18.61	20 - 30	Upper Surficial Aquifer	6.07	12.54	-0.051	
52GW73	18.67	39 - 49	Lower Surficial Aquifer	7.10	11.57		
52GW17	21.45	20 - 30	Upper Surficial Aquifer	11.05	10.40	-0.030	
52GW16	21.42	40 - 50	Lower Surficial Aquifer	11.63	9.79		

TABLE 7

Vertical Gradients - Spring 2009

Marine Corps Air Station Cherry Point, North Carolina

Well ID	Reference Point Elevation (ft msl)	Screened Interval (ft bgs)	Aquifer	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Vertical Gradient (ft/ft)	Upward or Downward Gradient
52GW28	20.65	20 - 30	Upper Surficial Aquifer	9.66	10.99	-0.018	
52GW27	20.75	40 - 50	Lower Surficial Aquifer	10.12	10.63		
52GW33	21.03	20 - 30	Upper Surficial Aquifer	9.56	11.47	-0.025	
52GW32	20.99	40 - 50	Lower Surficial Aquifer	10.03	10.96		
52GW35	21.05	20 - 30	Upper Surficial Aquifer	9.97	11.08	-0.020	
52GW34	20.98	40 - 50	Lower Surficial Aquifer	10.30	10.68		
52GW37	21.04	20 - 30	Upper Surficial Aquifer	10.59	10.45	-0.013	
52GW36	21.03	40 - 50	Lower Surficial Aquifer	10.84	10.19		
52GW39	20.37	20 - 30	Upper Surficial Aquifer	8.36	12.01	-0.027	
52GW38	20.47	40 - 50	Lower Surficial Aquifer	8.99	11.48		
52GW41	20.99	20 - 30	Upper Surficial Aquifer	9.23	11.76	-0.027	
52GW40	21.01	39 - 49	Lower Surficial Aquifer	9.76	11.25		
52GW44	20.91	20 - 30	Upper Surficial Aquifer	9.92	10.99	-0.016	
52GW43	20.98	45 - 55	Lower Surficial Aquifer	10.39	10.59		
52GW51	21.01	20 - 30	Upper Surficial Aquifer	9.30	11.71	-0.020	
52GW50	21.02	40 - 50	Lower Surficial Aquifer	9.71	11.31		
52GW60	21.14	20 - 30	Upper Surficial Aquifer	9.20	11.94	-0.037	
52GW59	21.11	40 - 50	Lower Surficial Aquifer	9.91	11.20		
52GW72	18.73	20 - 30	Upper Surficial Aquifer	5.98	12.75	-0.061	
52GW71	18.69	36 - 46	Lower Surficial Aquifer	6.91	11.78		
MW20	23.06	6 - 16	Upper Surficial Aquifer	7.64	15.42	-0.056	Downward
MW21	22.16	39 - 49	Lower Surficial Aquifer	8.59	13.57		
MW28	23.23	12 - 24	Upper Surficial Aquifer	19.48	3.75	-0.001	
S3W3	21.52	38 - 48	Lower Surficial Aquifer	17.80	3.72		
MW42	5.79	2 - 12	Upper Surficial Aquifer	3.49	2.30	-0.1092	
MW43	3.73	32.5 - 42.5	Lower Surficial Aquifer	4.76	-1.03		
MW58	15.39	3 - 13	Upper Surficial Aquifer	4.46	10.93	-0.0162	
MW59	17.86	32 - 42	Lower Surficial Aquifer	7.40	10.46		
N2GW15	22.73	20 - 30	Upper Surficial Aquifer	12.15	10.58	-0.0583	
52GW19	22.11	44 - 54	Lower Surficial Aquifer	12.93	9.18		
N2GW17	24.64	12.9 - 22.9	Upper Surficial Aquifer	13.62	11.02	-0.042	
52GW24	20.50	42 - 52	Lower Surficial Aquifer	10.70	9.80		
N2GW29	21.72	5 - 15	Upper Surficial Aquifer	10.09	11.63	-0.039	
52GW29	20.95	43 - 53	Lower Surficial Aquifer	10.81	10.14		
N2GW36	21.36	5 - 15	Upper Surficial Aquifer	9.22	12.14	-0.047	
52GW15	20.42	43 - 53	Lower Surficial Aquifer	10.06	10.36		
N4GW07	21.71	8 - 18	Upper Surficial Aquifer	9.8	11.91	-0.020	
N4GW09	21.67	45 - 50	Lower Surficial Aquifer	10.41	11.26		
52GW58	21.08	20 - 30	Upper Surficial Aquifer	8.99	12.09	-0.033	
52GW57	21.06	40 - 50	Lower Surficial Aquifer	9.64	11.42		
Upward Vertical Gradients within the Surficial Aquifer							
16GW29	10.52	5 - 15	Upper Surficial Aquifer	8.23	2.29	0.042	
16GW28	10.84	35.5 - 45.5	Lower Surficial Aquifer	7.26	3.58		Upward
16GW31	18.84	11 - 21	Upper Surficial Aquifer	15.80	3.04	0.005	
16GW30	18.92	45 - 55	Lower Surficial Aquifer	15.71	3.21		

TABLE 7

Vertical Gradients - Spring 2009

Marine Corps Air Station Cherry Point, North Carolina

Well ID	Reference Point Elevation (ft msl)	Screened Interval (ft bgs)	Aquifer	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Vertical Gradient (ft/ft)	Upward or Downward Gradient
16GW35	11.60	5 - 15	Upper Surficial Aquifer	8.62	2.98	0.002	
16GW34	11.10	36.5 - 46.5	Lower Surficial Aquifer	8.06	3.04		
16GW37	7.28	5 - 15	Upper Surficial Aquifer	3.71	3.57	0.000	
16GW36	7.43	32 - 42	Lower Surficial Aquifer	3.86	3.57		
42GW05	15.47	1 - 11	Upper Surficial Aquifer	4.61	10.86	0.006	
MW01	13.56	25.9 - 35.9	Lower Surficial Aquifer	2.56	11.00		
52GW48	21.08	20 - 30	Upper Surficial Aquifer	10.60	10.48	0.027	
52GW47	22.08	44 - 54	Lower Surficial Aquifer	10.95	11.13		
52GW70	21.11	20 - 30	Upper Surficial Aquifer	11.65	9.46	0.077	
52GW69	21.10	40 - 50	Lower Surficial Aquifer	10.10	11.00		
GW75	12.65	20 - 30	Upper Surficial Aquifer	6.82	5.83	0.001	Upward
42GW15	12.83	36 - 46	Lower Surficial Aquifer	6.99	5.84		
MW12	5.49	3 - 13	Upper Surficial Aquifer	4.26	1.23	0.006	
MW48	5.63	32 - 42	Lower Surficial Aquifer	4.24	1.39		
MW38	6.96	3 - 13	Upper Surficial Aquifer	3.02	3.94	0.0032	
MW39	6.92	25 - 35	Lower Surficial Aquifer	2.91	4.01		
MW40	5.84	2 - 12	Upper Surficial Aquifer	3.56	2.28	0.0034	
MW41	5.62	31 - 41	Lower Surficial Aquifer	3.24	2.38		
MW44	5.69	2 - 12	Upper Surficial Aquifer	3.56	2.13	0.0100	
MW45	5.71	35 - 45	Lower Surficial Aquifer	3.25	2.46		
MW50	6.94	3 - 13	Upper Surficial Aquifer	4.01	2.93	0.025	
MW51	6.98	31 - 41	Lower Surficial Aquifer	3.34	3.64		

Notes:

ft bgs - feet below ground surface

ft msl - feet (relative) mean sea level

gradient

TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	14GW18	14GW49	14GW51	14GW53	16GW01	16GW02	16GW03	16GW04
Sample ID				OU1-14GW18-0309	OU1-14GW49-0309	OU1-14GW51-0309	OU1-14GW53-0509	OU1-16GW01-0309	OU1-16GW02-0309	OU1-16GW03-0309	OU1-16GW04-0309
Sample Date				03/27/09	03/28/09	03/27/09	05/06/09	03/10/09	03/11/09	03/11/09	03/11/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	**16 (3)**	**0.94 J**	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	7	340	1 U	1 U	**63 (1,2)**	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	**0.97 (3) J**	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.9**
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	**3.4 (2) J**
cis-1,2-Dichloroethene	70	70	370	1 U	1 U	**320 (1,2)**	**1.5**	1 U	**4.5**	**52**	**180 (1,2)**
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.96 J**
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	1 U	**2**	2.5 U	1 U	1 U	**2.3**	**3.4**	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**16 (1,2,3)**
trans-1,2-Dichloroethene	100	100	110	1 U	1 U	**170 (1,2,3)**	1 U	1 U	1 U	**4.4**	**29**
Trichloroethene	5	2.8	1.7	1 U	1 U	**13 (1,2,3)**	**2.2 (3)**	1 U	**3.9 (2,3)**	**19 (1,2,3)**	**190 (1,2,3)**
Vinyl chloride	2	0.015	0.016	1 U	1 U	**170 (1,2,3)**	1 U	1 U	1 U	1 U	**60 (1,2,3)**

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

3. Red bolding indicates exceedance of RSLs

4. Both screening criteria have been assigned a reference number listed in parentheses in the column header. The reference number is used to identify which criteria has been exceeded in a particular samples.

5. U - Analyte not detected
6. J - Reported value is estimated
7. J+ - Reported value is estimated biased high
8. UJ - Analyte not detected. Quanitation limit is imprecise

9. NA - Not analyzed
10. "--" - No screening criteria exists
11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	16GW05	16GW06	16GW08		16GW09	16GW10	16GW11	16GW16
Sample ID				OU1-16GW05-0309	OU1-16GW06-0309	OU1-16GW08-0309	OU1-16GW08P-0309	OU1-16GW09-0309	OU1-16GW10-0309	OU1-16GW11-0309	OU1-16GW16-0309
Sample Date				03/30/09	03/13/09	03/28/09	03/28/09	03/11/09	03/15/09	03/16/09	03/10/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U	1 UJ	10 UJ	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 UJ	10 UJ	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
1,1-Dichloroethene	7	7	340	1 U	**6.5**	1 U	1 U	1 U	1 UJ	10 UJ	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 UJ	10 UJ	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 UJ	10 UJ	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	1 U	1 U	1 UJ	10 UJ	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	10 U	**16**
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	1 UJ	10 UJ	1 U
cis-1,2-Dichloroethene	70	70	370	1 U	**540 (1,2,3)**	**1.3**	**2.3**	1 U	**8**	10 U	1 U
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Methylene chloride	5	4.6	4.8	1 U	1 U	**2.6**	**2.3**	1 U	3.5 U	10 R	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	1 UJ	10 UJ	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	1 U	**2.8 (2,3) J**	**3.4 (2,3) J**	1 U	1 U	10 U	**2.6 (2,3)**
trans-1,2-Dichloroethene	100	100	110	1 U	**59**	1 U	1 U	1 U	1 U	10 U	1 U
Trichloroethene	5	2.8	1.7	1 U	**13 (1,2,3)**	**1.4**	**2.1 (3)**	1 U	**4.9 (2,3) J**	**210 (1,2,3) J**	**2.3 (3)**
Vinyl chloride	2	0.015	0.016	1 U	**31 (1,2,3)**	1 U	1 U	1 U	**4.8 (1,2,3) J**	10 UJ	1 U

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

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9. NA - Not analyzed
10. "--" - No screening criteria exists
11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	16GW21	16GW28	16GW29	16GW30	16GW31	16GW32	16GW33	16GW34
Sample ID				OU1-16GW21-0309	OU1-16GW28-0309	OU1-16GW29-0309	OU1-16GW30-0309	OU1-16GW31-0309	OU1-16GW32-0309	OU1-16GW33-0309	OU1-16GW34-0309
Sample Date				03/24/09	03/13/09	03/13/09	03/12/09	03/12/09	03/13/09	03/12/09	03/13/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.76 J**
1,1-Dichloroethene	7	7	340	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.5 (2,3)**
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	1 U	**180 (1,2)**	1 U	**32**	1 U	**10**	1 U	**110 (1,2)**
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	**2.2**	**2.6**	**2.2**	1 U	1 U	1 U	3.7 U	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	**7.7**	1 U	**2.9**	1 U	1 U	1 U	**5.3**
Trichloroethene	5	2.8	1.7	1 U	**32 (1,2,3)**	1 U	**2 (3)**	1 U	**0.96 J**	1 U	**38 (1,2,3)**
Vinyl chloride	2	0.015	0.016	1 U	**29 (1,2,3)**	1 U	**8.8 (1,2,3)**	1 U	1 U	1 U	**17 (1,2,3)**

Notes:

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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	16GW35	16GW36	16GW37	16GW40	16GW41	16GW42	16GW49[1]	
Sample ID				OU1-16GW35-0309	OU1-16GW36-0309	OU1-16GW37-0309	OU1-16GW40-0309	OU1-16GW41-0309	OU1-16GW42-0309	OU1-16GW49-0509	OU1-16GW49P-0509
Sample Date				03/13/09	03/28/09	03/28/09	03/11/09	03/11/09	03/11/09	05/06/09	05/06/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	**2.1 (2,3)**	1 U	1 U	1 U	NA
1,1-Dichloroethane	--	70	2.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,1-Dichloroethene	7	7	340	1 U	**1.2**	**5.8**	1 U	1 U	1 U	1 U	NA
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Benzene	5	1	0.41	1 U	1 U	**1.1 (2,3)**	1 UJ	1 U	**1.2 (2,3)**	1 U	NA
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA
cis-1,2-Dichloroethene	70	70	370	1 U	**160 (1,2)**	**730 (1,2,3)**	**16**	**170 (1,2)**	**140 (1,2)**	**5.9**	NA
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Methylene chloride	5	4.6	4.8	1 U	**2.5**	**2.4**	1 U	1 U	1 U	1 U	NA
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	0.22 U	0.22 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Tetrachloroethene	5	0.7	0.11	1 U	1 UJ	1 UJ	**8 (1,2,3)**	1 U	1 U	1 U	NA
trans-1,2-Dichloroethene	100	100	110	1 U	**33**	**82**	**1.7**	**5**	**11**	**0.89 J**	NA
Trichloroethene	5	2.8	1.7	1 U	**1.4**	**3.3 (2,3)**	**11 (1,2,3)**	**4 (2,3)**	**13 (1,2,3)**	1 U	NA
Vinyl chloride	2	0.015	0.016	1 U	**2.4 (1,2,3)**	**30 (1,2,3)**	**8.8 (1,2,3)**	**22 (1,2,3)**	**32 (1,2,3)**	1 U	NA

Notes:

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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	16GW50	16GW51	16GW52	42GW05	42GW08	42GW15	42GW16	42GW17
Sample ID				OU1-16GW50-0509	OU1-16GW51-0509	OU1-16GW52-0509	OU1-42GW05-0309	OU1-42GW08-0309	OU1-42GW15-0309	OU1-42GW16-0509	OU1-42GW17-0509
Sample Date				05/07/09	05/06/09	05/06/09	03/25/09	03/25/09	03/28/09	05/05/09	05/06/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	1 U	**4.1 (3)**	1 U	**7.8 (3)**	1 U	1 U
1,1-Dichloroethene	7	7	340	1 U	1 U	1 U	1 U	1 U	**7.1 (1,2)**	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	**2.5 (2,3) J**	**7.9 (2,3)**	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	1 U	1 U	**0.81 (3) J**	1 UJ	1 U
Chlorobenzene	100	50	91	1 U	1 U	**37 J**	**130 (1,2,3)**	**3.3**	1 U	1 U	1 U
Chloroform	80	70	0.19	**2.8 (3)**	1 U	1 U	1 U	1 U	1 U	1 U	**2.6 (3)**
Chloromethane	--	2.6	190	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ
cis-1,2-Dichloroethene	70	70	370	**120 (1,2)**	**24**	1 U	**31**	1 U	**410 (1,2,3)**	**7.4**	**1.3**
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	1 UJ	1 U	1 U	1 U	**2.1**	**2.1**	1 U	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 UJ	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	**3.7**	1 U	1 U	1 U	1 U	**27**	1 U	1 U
Trichloroethene	5	2.8	1.7	**19 (1,2,3)**	**1.5**	1 U	**3 (2,3)**	**0.95 J**	**81 (1,2,3)**	**10 (1,2,3)**	**1.4**
Vinyl chloride	2	0.015	0.016	**16 (1,2,3)**	**5.5 (1,2,3)**	1 U	**73 (1,2,3)**	1 U	**4.7 (1,2,3)**	1 UJ	1 U

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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	42GW17	42GW18	42GW19	42GW20	42GW21	42GW22	42GW23	47GW05
Sample ID				OU1-42GW17P-0509	OU1-42GW18-0509	OU1-42GW19-0509	OU1-42GW20-0509	OU1-42GW21-0509	OU1-42GW22-0509	OU1-42GW23-0509	OU1-47GW05-0309
Sample Date				05/06/09	05/05/09	05/05/09	05/05/09	05/05/09	05/05/09	05/05/09	03/26/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	1 U	1 U	1 U	**21 (3)**	**5.8 (3)**	**1**
1,1-Dichloroethene	7	7	340	1 U	**1.2**	1 U	1 U	1 U	**20 (1,2)**	**4**	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**63 (3)**
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**38 (3)**
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 UJ	1 UJ	1 U	1 UJ	**3.4 (2,3)**	**1.4 (2,3)**	**11 (1,2,3)**
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	80	70	0.19	**5.6 (3)**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	**1.7**	**7.7**	**2.8**	**0.95 J**	**0.86 J**	**1200 (1,2,3)**	**180 (1,2)**	1 U
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**8.9 (3)**
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**22**
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**19**
Methylene chloride	5	4.6	4.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.9 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 UJ	**20 (3)**	**1.5**	1 U	**1.9**	1 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**69 (2,3)**
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**14**
Tetrachloroethene	5	0.7	0.11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	1 U	1 U	1 U	1 U	**20**	**4**	1 U
Trichloroethene	5	2.8	1.7	**2.2 (3)**	**7 (1,2,3)**	**1.4**	**1.4**	**1.1**	**21 (1,2,3)**	**78 (1,2,3)**	1 U
Vinyl chloride	2	0.015	0.016	1 U	1 UJ	1 UJ	1 U	1 UJ	**130 (1,2,3)**	**16 (1,2,3)**	**49 (1,2,3)**

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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	47GW06	47GW07	47GW08	47GW09[1]		47GW10[1]		47GW11
Sample ID				OU1-47GW06-0309	OU1-47GW07-0309	OU1-47GW08-0309	OU1-47GW09-0309	OU1-47GW09P-0309	OU1-47GW10-0309	OU1-47GW10P-0309	OU1-47GW11-0309
Sample Date				03/26/09	03/26/09	03/26/09	03/27/09	03/27/09	03/27/09	03/27/09	03/26/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	**850 (2,3)**	1 U	1 U	1 U	1 U	1 U	**1.1**
1,1-Dichloroethene	7	7	340	1 U	**72 (1,2)**	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	50	91	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	80	70	0.19	1 U	50 U	1 U	1 U	1 U	**5.4 (3)**	**4 (3)**	1 U
Chloromethane	--	2.6	190	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	**1.2**	**850 (1,2,3)**	1 U	**4.1**	**4.1**	1 U	1 U	**8**
Ethylbenzene	700	550	1.5	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	2.6 U	120 U	2.3 U	2.2 U	2.4 U	2.8 U	2.5 U	3.5 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	**1.2 (3)**	50 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	2.8	1.7	**0.84 J**	**440 (1,2,3)**	1 U	1 U	1 U	1 U	1 U	**3.8 (2,3)**
Vinyl chloride	2	0.015	0.016	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	47GW12	47GW17	47GW18	47GW19	47GW20	47GW25	51EX10	51EX12
Sample ID				OU1-47GW12-0309	OU1-47GW17-0309	OU1-47GW18-0309	OU1-47GW19-0309	OU1-47GW20-0309	OU1-47GW25-0309	OU1-51EX10-0309	OU1-51EX12-0309
Sample Date				03/26/09	03/26/09	03/26/09	03/26/09	03/27/09	03/26/09	03/27/09	03/29/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	**32**	1 U	**12**	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	**1.9**	**75 (2,3)**	**1.3**	**240 (2,3)**	1 U	**16 (3)**	**20 (3)**	1 U
1,1-Dichloroethene	7	7	340	1 U	**2.6**	1 U	**11 (1,2)**	1 U	**44 (1,2)**	**37 (1,2)**	**2.4**
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**130 (1,2,3)**
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	**2**	**2.9**	**1.1**	**19**	1 U	**52**	**150 (1,2)**	**870 (1,2,3)**
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.7 (3)**
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.6**
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	4.1 U	2.7 U	4.2 U	3.5 U	2.9 U	1 U	1 U	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	**1.3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	**12 (1,2,3)**	1 U	**3.7 (2,3)**	1 U	1 U	1 U	1 UJ	1 UJ
trans-1,2-Dichloroethene	100	100	110	1 U	1 U	1 U	**1.4**	1 U	**19**	**13**	**7.6**
Trichloroethene	5	2.8	1.7	**2.2 (3)**	**6.5 (1,2,3)**	**2.6 (3)**	**4.1 (2,3)**	1 U	**11 (1,2,3)**	**6.6 (1,2,3)**	**170 (1,2,3)**
Vinyl chloride	2	0.015	0.016	1 U	**19 (1,2,3)**	1 U	**18 (1,2,3)**	1 U	**88 (1,2,3)**	**31 (1,2,3)**	**190 (1,2,3)**

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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	51EX13	51EX16	51EX17	51EX18	51EX19	51GW02	52GW01	52GW07
Sample ID				OU1-51EX13-0309	OU1-51EX16-0309	OU1-51EX17-0309	OU1-51EX18-0309	OU1-51EX19-0309	OU1-51GW02-0309	OU1-52GW01-0309	OU1-52GW07-0309
Sample Date				03/25/09	03/25/09	03/25/09	03/28/09	03/28/09	03/26/09	03/24/09	03/24/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	**10**	1 U	1 U	**9.2 (3)**	**1.7**	10 U
1,1-Dichloroethene	7	7	340	**5**	**2.5**	**2.5**	1 U	1 U	1 U	**1.3**	10 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Benzene	5	1	0.41	**51 (1,2,3)**	**3.6 (2,3)**	**1 (3)**	**1.1 (2,3)**	**1.7 (2,3)**	1 U	1 U	10 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
cis-1,2-Dichloroethene	70	70	370	**980 (1,2,3)**	**430 (1,2,3)**	**320 (1,2)**	**190 (1,2)**	**200 (1,2)**	**18**	**45**	**77 (1,2)**
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Methylene chloride	5	4.6	4.8	1 U	1 U	1 U	1 U	1 U	3.7 U	1 U	10 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Tetrachloroethene	5	0.7	0.11	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	10 U
trans-1,2-Dichloroethene	100	100	110	**18**	**120 (1,2,3)**	**28**	**30**	**39**	**2.9**	**11**	**11**
Trichloroethene	5	2.8	1.7	**180 (1,2,3)**	**52 (1,2,3)**	**200 (1,2,3)**	**15 (1,2,3)**	**70 (1,2,3)**	1 U	**200 (1,2,3)**	**370 (1,2,3)**
Vinyl chloride	2	0.015	0.016	**77 (1,2,3)**	**650 (1,2,3)**	**35 (1,2,3)**	**43 (1,2,3)**	**47 (1,2,3)**	**110 (1,2,3)**	1 U	10 U

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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW08	52GW10	52GW11	52GW15	52GW16	52GW17[1]		52GW18
Sample ID				OU1-52GW08-0309	OU1-52GW10-0309	OU1-52GW11-0309	OU1-52GW15-0309	OU1-52GW16-0309	OU1-52GW17-0309	OU1-52GW17P-0309	OU1-52GW18-0309
Sample Date				03/24/09	03/24/09	03/24/09	03/20/09	03/22/09	03/22/09	03/22/09	03/22/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
1,1,1-Trichloroethane	200	200	9,100	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
1,1-Dichloroethane	--	70	2.4	**66 (3)**	1 U	1 U	1 U	1 U	10 U	10 U	1 U
1,1-Dichloroethene	7	7	340	50 U	1 U	1 U	1 U	1 U	10 U	10 U	**15 (1,2)**
1,2,4-Trimethylbenzene	--	350	15	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
1,3,5-Trimethylbenzene	--	350	12	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
Benzene	5	1	0.41	50 U	1 U	1 U	1 U	1 U	**56 (1,2,3)**	**54 (1,2,3)**	**77 (1,2,3)**
Chlorobenzene	100	50	91	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
Chloroform	80	70	0.19	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
Chloromethane	--	2.6	190	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
cis-1,2-Dichloroethene	70	70	370	**1100 (1,2,3)**	**2.1**	**18**	1 U	**35**	**140 (1,2)**	**130 (1,2)**	**4200 (1,2,3)**
Ethylbenzene	700	550	1.5	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
Hexachlorobutadiene	--	0.44	0.86	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
Isopropylbenzene	--	70	680	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
m- and p-Xylene	--	530	--	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
Methylene chloride	5	4.6	4.8	50 U	1 U	1 U	1 U	**2.2**	**23 (1,2,3)**	**22 (1,2,3)**	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
Naphthalene	--	21	0.14	50 U	1 U	1 U	1 U	1 U	**24 (2,3)**	**27 (2,3)**	1 U
n-Propylbenzene	--	70	--	50 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U
Tetrachloroethene	5	0.7	0.11	50 U	1 U	1 U	1 UJ	1 U	10 U	10 U	1 U
trans-1,2-Dichloroethene	100	100	110	50 U	1 U	1 U	1 U	**4**	10 U	10 U	**10**
Trichloroethene	5	2.8	1.7	**2000 (1,2,3)**	**5.5 (1,2,3)**	**30 (1,2,3)**	1 U	**24 (1,2,3) J**	**360 (1,2,3)**	**340 (1,2,3)**	**430 (1,2,3)**
Vinyl chloride	2	0.015	0.016	**110 (1,2,3)**	1 U	1 U	1 U	**2.3**	10 U	10 U	**400 (1,2,3)**

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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW19[1]		52GW20	52GW21[1]		52GW22	52GW23	52GW24
Sample ID				OU1-52GW19-0309	OU1-52GW19P-0309	OU1-52GW20-0309	OU1-52GW21-0309	OU1-52GW21P-0309	OU1-52GW22-0309	OU1-52GW23-0309	OU1-52GW24-0309
Sample Date				03/22/09	03/22/09	03/23/09	03/24/09	03/24/09	03/23/09	03/23/09	03/20/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	50 U	50 U	**1.2**	10 U	10 U	1 U	1 U	1 U
1,1-Dichloroethene	7	7	340	50 U	50 U	**1.1**	10 U	10 U	**0.89 J**	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
Benzene	5	1	0.41	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
Chlorobenzene	100	50	91	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
Chloroform	80	70	0.19	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	**610 (1,2,3)**	**590 (1,2,3)**	**62**	**380 (1,2,3)**	**390 (1,2,3)**	**190 (1,2)**	**2**	**84 (1,2)**
Ethylbenzene	700	550	1.5	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	**110 (1,2,3)**	**110 (1,2,3)**	**2.4**	10 U	10 U	**2**	1 U	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 UJ
trans-1,2-Dichloroethene	100	100	110	**86**	**81**	**9.2**	**32**	**33**	**7.8**	1 U	1 U
Trichloroethene	5	2.8	1.7	**260 (1,2,3)**	**260 (1,2,3)**	**36 (1,2,3)**	**110 (1,2,3)**	**110 (1,2,3)**	**31 (1,2,3)**	**1.6**	**2.9 (2,3)**
Vinyl chloride	2	0.015	0.016	50 U	50 U	1 U	10 U	10 U	1 U	1 U	1 U

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Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW26[1]		52GW27	52GW28[1]		52GW29	52GW30	52GW31
Sample ID				OU1-52GW26-0309	OU1-52GW26P-0309	OU1-52GW27-0309	OU1-52GW28-0309	OU1-52GW28P-0309	OU1-52GW29-0309	OU1-52GW30-0309	OU1-52GW31-0309
Sample Date				03/23/09	03/23/09	03/20/09	03/20/09	03/20/09	03/20/09	03/24/09	03/24/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
1,1-Dichloroethane	--	70	2.4	**1.2**	**1.3**	**6.6 (3)**	**370 (2,3)**	**360 (2,3)**	1 U	1 U	50 U
1,1-Dichloroethene	7	7	340	1 U	1 U	**2.7**	50 U	50 U	1 U	1 U	50 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
Benzene	5	1	0.41	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
Chloroform	80	70	0.19	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
cis-1,2-Dichloroethene	70	70	370	**10**	**12**	**70**	**400 (1,2,3)**	**390 (1,2,3)**	**1.7**	**3.4**	**410 (1,2,3)**
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
Methylene chloride	5	4.6	4.8	**2.2**	**2.3**	**2.9**	50 U	**110 (1,2,3)**	1 U	**2.7**	**110 (1,2,3)**
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U
Tetrachloroethene	5	0.7	0.11	1 U	1 U	1 UJ	50 UJ	50 UJ	1 UJ	1 U	50 U
trans-1,2-Dichloroethene	100	100	110	**1.6**	**1.8**	**7.1**	50 U	50 U	1 U	1 U	50 U
Trichloroethene	5	2.8	1.7	**14 (1,2,3)**	**18 (1,2,3)**	**100 (1,2,3)**	**920 (1,2,3)**	**970 (1,2,3)**	**3.3 (2,3)**	**12 (1,2,3)**	**820 (1,2,3)**
Vinyl chloride	2	0.015	0.016	1 U	1 U	1 U	50 U	50 U	1 U	1 U	50 U

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

3. Red bolding indicates exceedance of RSLs

4. Both screening criteria have been assigned a reference number listed in parentheses in the column header. The reference number is used to identify which criteria has been exceeded in a particular samples.

5. U - Analyte not detected

6. J - Reported value is estimated

7. J+ - Reported value is estimated biased high

8. UJ - Analyte not detected. Quanitation limit is imprecise

9. NA - Not analyzed

10. "--" - No screening criteria exists

11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW32	52GW33	52GW34	52GW35	52GW36	52GW37	52GW38	52GW39
Sample ID				OU1-52GW32-0309	OU1-52GW33-0309	OU1-52GW34-0309	OU1-52GW35-0309	OU1-52GW36-0309	OU1-52GW37-0309	OU1-52GW38-0309	OU1-52GW39-0309
Sample Date				03/19/09	03/19/09	03/17/09	03/17/09	03/17/09	03/17/09	03/18/09	03/18/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	**0.91 J**	**64 (3)**	1 U	50 U	1 U	50 U	1 U	**5 (3)**
1,1-Dichloroethene	7	7	340	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	50 U	1 U	50 U	1 U	**2**
Chloroform	80	70	0.19	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	**21**	**48**	**24**	**560 (1,2,3)**	1 U	**200 (1,2)**	**1.1**	**5.6**
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
Methylene chloride	5	4.6	4.8	1 U	**2.6**	1 U	**170 (1,2,3)**	**3.2**	**160 (1,2,3)**	2.2 U	2.2 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	**2 (2,3)**	1 U	50 U	1 U	50 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	**1.8**	1 U	1 U	50 U	1 U	50 U	1 U	1 U
Trichloroethene	5	2.8	1.7	**45 (1,2,3)**	**390 (1,2,3)**	**110 (1,2,3)**	**540 (1,2,3)**	1 U	**950 (1,2,3)**	**1.4**	**1.3**
Vinyl chloride	2	0.015	0.016	1 U	1 U	1 U	50 U	1 U	50 U	1 U	1 U

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

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4. Both screening criteria have been assigned a reference number listed in parentheses in the column header. The reference number is used to identify which criteria has been exceeded in a particular samples.

5. U - Analyte not detected

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7. J+ - Reported value is estimated biased high

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9. NA - Not analyzed

10. "--" - No screening criteria exists

11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW40	52GW41[1]		52GW42	52GW43	52GW44[1]		52GW45
Sample ID				OU1-52GW40-0309	OU1-52GW41-0309	OU1-52GW41P-0309	OU1-52GW42-0309	OU1-52GW43-0309	OU1-52GW44-0309	OU1-52GW44P-0309	OU1-52GW45-0309
Sample Date				03/17/09	03/17/09	03/17/09	03/18/09	03/19/09	03/19/09	03/19/09	03/17/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	**1.1**	**0.84 J**	1 U	1 U	1 U	50 U	1 U
1,1-Dichloroethene	7	7	340	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	1 UJ	1 U	1 U	50 U	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
cis-1,2-Dichloroethene	70	70	370	**3.1**	**4.2**	**3.8**	1 U	1 U	**1900 (1,2,3)**	**1200 (1,2,3)**	1 U
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
Methylene chloride	5	4.6	4.8	**3.4**	**3.7**	**2.4**	1 U	**2.4**	**2.6**	50 U	**3.4**
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	1 U	1 U	1 U	1 U	**33**	**60**	1 U
Trichloroethene	5	2.8	1.7	**2.6 (3)**	**18 (1,2,3)**	**19 (1,2,3)**	1 U	**1.1**	**160 (1,2,3)**	**100 (1,2,3)**	1 U
Vinyl chloride	2	0.015	0.016	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

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4. Both screening criteria have been assigned a reference number listed in parentheses in the column header. The reference number is used to identify which criteria has been exceeded in a particular samples.

5. U - Analyte not detected
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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW46[1]		52GW47	52GW48	52GW49[1]		52GW50	52GW51
Sample ID				OU1-52GW46-0309	OU1-52GW46P-0309	OU1-52GW47-0309	OU1-52GW48-0309	OU1-52GW49-0309	OU1-52GW49P-0309	OU1-52GW50-0309	OU1-52GW51-0309
Sample Date				03/16/09	03/16/09	03/18/09	03/18/09	03/30/09	03/30/09	03/17/09	03/17/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	10 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U
1,1,1-Trichloroethane	200	200	9,100	10 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	50 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	10 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	50 U
1,1-Dichloroethane	--	70	2.4	10 U	1 U	1 U	**0.8 J**	1 U	1 U	1 U	50 U
1,1-Dichloroethene	7	7	340	10 UJ	**11 (1,2) J**	1 U	**2.2**	1 U	1 U	1 U	50 U
1,2,4-Trimethylbenzene	--	350	15	10 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	50 U
1,3,5-Trimethylbenzene	--	350	12	10 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	50 U
1,4-Dichlorobenzene	75	1.4	0.43	10 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U
Benzene	5	1	0.41	10 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	50 U
Chlorobenzene	100	50	91	10 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U
Chloroform	80	70	0.19	10 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U
Chloromethane	--	2.6	190	10 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	50 U
cis-1,2-Dichloroethene	70	70	370	**1900 (1,2,3)**	**2100 (1,2,3)**	1 U	**2.7**	1 U	1 U	**1.3**	**250 (1,2)**
Ethylbenzene	700	550	1.5	10 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U
Hexachlorobutadiene	--	0.44	0.86	10 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U
Isopropylbenzene	--	70	680	10 U	**0.88 J**	1 U	1 U	1 U	1 U	1 U	50 U
m- and p-Xylene	--	530	--	10 U	**1.9**	1 U	1 U	1 U	1 U	1 U	50 U
Methylene chloride	5	4.6	4.8	10 R	3.3 U	1 U	2.6 U	2.5 U	2.5 U	1 U	**170 (1,2,3)**
Methyl-tert-butyl ether (MTBE)	--	200	12	10 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	50 U
Naphthalene	--	21	0.14	10 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U
n-Propylbenzene	--	70	--	10 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U
Tetrachloroethene	5	0.7	0.11	**14 (1,2,3)**	**19 (1,2,3)**	1 U	1 U	1 U	1 U	1 U	50 U
trans-1,2-Dichloroethene	100	100	110	**46 J**	**4.7 J**	1 U	1 U	1 U	1 U	1 U	50 U
Trichloroethene	5	2.8	1.7	**17000 (1,2,3)**	**20000 (1,2,3)**	**1.1**	**30 (1,2,3)**	1 U	1 U	**0.95 J**	**1800 (1,2,3)**
Vinyl chloride	2	0.015	0.016	**68 (1,2,3) J**	**28 (1,2,3) J**	1 U	1 U	1 U	1 U	1 U	50 U

Notes:

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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW52	52GW53	52GW54	52GW55	52GW56
Sample ID				OU1-52GW52-0309	OU1-52GW53-0309	OU1-52GW54-0309	OU1-52GW55-0309	OU1-52GW56-0309
Sample Date				03/17/09	03/17/09	03/19/09	03/18/09	03/18/09
Chemical Name								
Volatile Organic Compounds (UG/L)								
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	7	340	1 U	**3.8 (1,2)**	1 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	1 U	**600 (1,2,3)**	1 U	1 U	**1.6**
Ethylbenzene	700	550	1.5	1 U	**2 (3)**	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	**3.7**	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	**3.4**	1 U	**2.2**	2.2 U	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	**2 (3)**	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	**10 (1,2,3) J**	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	**3.6**	1 U	1 U	1 U
Trichloroethene	5	2.8	1.7	**8.1 (1,2,3)**	**9700 (1,2,3)**	1 U	**8.3 (1,2,3)**	**8.6 (1,2,3)**
Vinyl chloride	2	0.015	0.016	1 U	**21 (1,2,3)**	1 U	1 U	1 U

Notes:

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2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

3. Red bolding indicates exceedance of RSLs

TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW57	52GW58	52GW59	52GW60	52GW61	52GW62	52GW63	52GW64
Sample ID				OU1-52GW57-0309	OU1-52GW58-0309	OU1-52GW59-0309	OU1-52GW60-0309	OU1-52GW61-0309	OU1-52GW62-0309	OU1-52GW63-0309	OU1-52GW64-0309
Sample Date				03/18/09	03/18/09	03/19/09	03/17/09	03/16/09	03/16/09	03/19/09	03/19/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
1,1-Dichloroethene	7	7	340	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	**1.8**	**980 (1,2,3)**	1 U	**1.3**	**2**	**1100 (1,2,3)**	1 U	**8.2**
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
Methylene chloride	5	4.6	4.8	2.2 U	2.1 U	**2.4**	1 U	1 U	170 U	**2.3**	**2.3**
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	**2.4 (2,3)**	1 U	1 U	1 U	50 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	**17**	1 U	1 U	1 U	**75**	1 U	1 U
Trichloroethene	5	2.8	1.7	**4.9 (2,3)**	**9300 (1,2,3)**	1 U	1 U	**5.5 (1,2,3)**	**2200 (1,2,3)**	1 U	**190 (1,2,3)**
Vinyl chloride	2	0.015	0.016	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

3. Red bolding indicates exceedance of RSLs

4. Both screening criteria have been assigned a reference number listed in parentheses in the column header. The reference number is used to identify which criteria has been exceeded in a particular samples.

5. U - Analyte not detected

6. J - Reported value is estimated

7. J+ - Reported value is estimated biased high

8. UJ - Analyte not detected. Quanitation limit is imprecise

9. NA - Not analyzed

10. "--" - No screening criteria exists

11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW65	52GW66	52GW67	52GW68	52GW69	52GW70	52GW71	52GW72
Sample ID				OU1-52GW65-0309	OU1-52GW66-0309	OU1-52GW67-0309	OU1-52GW68-0309	OU1-52GW69-0309	OU1-52GW70-0309	OU1-52GW71-0309	OU1-52GW72-0309
Sample Date				03/19/09	03/19/09	03/19/09	03/19/09	03/17/09	03/17/09	03/18/09	03/18/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	7	340	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	1 U	1 U	1 U	**23**	1 U	**1.4**	1 U	1 U
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	1 U	1 U	**2**	**2.1**	1 U	1 U	1 U	2.4 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	2.8	1.7	1 U	1 U	1 U	**11 (1,2,3)**	1 U	**380 (1,2,3)**	1 U	1 U
Vinyl chloride	2	0.015	0.016	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

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4. Both screening criteria have been assigned a reference number listed in parentheses in the column header. The reference number is used to identify which criteria has been exceeded in a particular samples.

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9. NA - Not analyzed

10. "--" - No screening criteria exists

11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 8

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

Volatile Organic Compounds

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW73	52GW74	52GW76	OU1-GW75	OU1-GW76	OU1-MW01		OU1-MW12
Sample ID				OU1-52GW73-0309	OU1-52GW74-0309	OU1-52GW76-0309	OU1-GW75-0309	OU1-GW76-0309	OU1-MW01-0309	OU1-MW01P-0309	OU1-MW12-0309
Sample Date				03/19/09	03/19/09	03/23/09	03/30/09	03/27/09	03/25/09	03/25/09	03/11/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	**11 (3)**	**2.3**	**23 (3)**	**1.6**	**1.6**	1 U
1,1-Dichloroethene	7	7	340	1 U	1 U	1 U	**1.3**	**55 (1,2)**	**2.4**	**2.6**	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	**1.1**	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	**0.69 J**	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	**0.83 (3) J**	1 U	**2.2 (2,3)**	**2 (2,3)**	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	1 U	1 U	**12**	**120 (1,2)**	**270 (1,2)**	**27**	**27**	1 U
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	**2.1**	1 U	1 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	**2.2**	1 U	**2.2**	3.4 U	2.2 U	1 U	1 U	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 UJ	1 UJ	**2.6 (2,3)**	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	1 U	1 U	**2.7**	**32**	**2.6**	**2.9**	1 U
Trichloroethene	5	2.8	1.7	1 U	1 U	**38 (1,2,3)**	**9.5 (1,2,3)**	**38 (1,2,3)**	**19 (1,2,3)**	**19 (1,2,3)**	1 U
Vinyl chloride	2	0.015	0.016	1 U	1 U	1 U	**8.7 (1,2,3)**	**52 (1,2,3)**	1 U	1 U	1 U

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TABLE 8
Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event
Volatile Organic Compounds
Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	OU1-MW20	OU1-MW21	OU1-MW23		OU1-MW28	OU1-MW37	OU1-MW38	OU1-MW39
Sample ID				OU1-MW20-0309	OU1-MW21-0309	OU1-MW23-0309	OU1-MW23P-0309	OU1-MW28-0309	OU1-MW37-0309	OU1-MW38-0309	OU1-MW39-0309
Sample Date				03/26/09	03/26/09	03/26/09	03/26/09	03/12/09	03/27/09	03/13/09	03/13/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	**2.7 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	7	340	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	80	70	0.19	**7.2 (3)**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	1 U	1 U	**7.5**	**7**	**31**	1 U	**1.2**	**3.8**
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	3.2 U	3.8 U	3.2 U	3.3 U	3.2 U	2.6 U	1 U	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5**
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	1 U	1 U	1 U	**1.6 (2,3)**	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	1 U	**2.2**	**2.4**	1 U	1 U	1 U	1 U
Trichloroethene	5	2.8	1.7	1 U	1 U	**4.3 (2,3)**	**4.8 (2,3)**	**10 (1,2,3)**	1 U	1 U	**1.7**
Vinyl chloride	2	0.015	0.016	1 U	1 U	1 U	**2.1 (1,2,3)**	1 U	1 U	1 U	1 U

Notes:

1. Bold indicates detections

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4. Both screening criteria have been assigned a reference number listed in parentheses in the column header. The reference number is used to identify which criteria has been exceeded in a particular samples.

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11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 8

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

Volatile Organic Compounds

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	OU1-MW40	OU1-MW41	OU1-MW42	OU1-MW43	OU1-MW44	OU1-MW45	OU1-MW48	OU1-MW50
Sample ID				OU1-MW40-0309	OU1-MW41-0309	OU1-MW42-0309	OU1-MW43-0309	OU1-MW44-0309	OU1-MW45-0309	OU1-MW48-0309	OU1-MW50-0309
Sample Date				03/29/09	03/29/09	03/29/09	03/29/09	03/29/09	03/29/09	03/11/09	03/10/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	7	340	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	**3.1**	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	1 U	1 U	1 U	1 U	1 U	1 U	**30**	1 U
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	**2.8**	**2.3**	1 U	**2.3**	1 U	1 U	1 U	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	2.8	1.7	1 U	1 U	1 U	1 U	1 U	1 U	**1.6**	1 U
Vinyl chloride	2	0.015	0.016	1 U	1 U	1 U	1 U	1 U	1 U	**9 (1,2,3)**	1 U

Notes:

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TABLE 8

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

Volatile Organic Compounds

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	OU1-MW51	OU1-MW53		OU1-MW55	OU1-MW58	OU1-MW59	OU1-MW64	OU1-MW73
Sample ID				OU1-MW51-0309	OU1-MW53-0309	OU1-MW53P-0309	OU1-MW55-0309	OU1-MW58-0309	OU1-MW59-0309	OU1-MW64-0309	OU1-MW73-0309
Sample Date				03/10/09	03/15/09	03/15/09	03/15/09	03/28/09	03/16/09	03/24/09	03/27/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	1 U	1 U	1 U	**46 (3)**	**1.1**	1 U
1,1-Dichloroethene	7	7	340	1 U	**1.8 J**	**1.6 J**	1 U	1 U	**110 (1,2) J**	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	**24 (1,2,3)**
Chlorobenzene	100	50	91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	1 U	**350 (1,2)**	**340 (1,2)**	1 U	1 U	**190 (1,2)**	**14**	1 U
Ethylbenzene	700	550	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	1 U	3 U	1 R	3.4 U	**2.6**	1 R	1 U	1 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	1 U
Naphthalene	--	21	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	1 U	**1 (2,3)**	1 U	1 UJ	**1 (2,3)**	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	1 U	**140 (1,2,3)**	**150 (1,2,3)**	1 U	1 U	**46**	**1.1**	**3.8**
Trichloroethene	5	2.8	1.7	1 U	**510 (1,2,3)**	**500 (1,2,3)**	1 U	1 U	**5.7 (1,2,3) J**	**26 (1,2,3)**	1 U
Vinyl chloride	2	0.015	0.016	1 U	**8.5 (1,2,3) J**	**8.9 (1,2,3) J**	1 U	1 U	**160 (1,2,3) J**	1 U	1 U

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TABLE 8

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

Volatile Organic Compounds

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	N2GW07	N2GW15	N2GW17	N2GW18	N2GW25	N2GW27	N2GW28	N2GW29
Sample ID				OU1-N2GW07-0309	OU1-N2GW15-0309	OU1-N2GW17-0309	OU1-N2GW18-0309	OU1-N2GW25-0309	OU1-N2GW27-0309	OU1-N2GW28-0309	OU1-N2GW29-0309
Sample Date				03/23/09	03/22/09	03/20/09	03/24/09	03/29/09	03/22/09	03/22/09	03/20/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	20 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	20 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	20 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	3.5 (3) J	20 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	7	340	**2.6**	**4.1**	**3.4 J**	20 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	**0.85 J**	1 U	160 (3) J	2000 (2,3)	1 U	110 (3)	1 U	**9.1**
1,3,5-Trimethylbenzene	--	350	12	**1.2**	1 U	52 (3)	780 (2,3)	1 U	110 (3)	1 U	**9.6**
1,4-Dichlorobenzene	75	1.4	0.43	1 U	1 U	1 U	20 U	1 U	74 (2,3)	1 U	1 U
Benzene	5	1	0.41	110 (1,2,3)	33 (1,2,3)	50 (1,2,3) J	26 (1,2,3)	1 U	39 (1,2,3)	1 U	1 U
Chlorobenzene	100	50	91	1 U	1 U	1 U	20 U	1 U	490 (1,2,3)	1 U	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	20 U	1 U	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	20 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	310 (1,2)	970 (1,2,3)	260 (1,2)	20 U	**2**	**5.6**	1 U	1 U
Ethylbenzene	700	550	1.5	9.4 (3)	1 U	**1 J**	130 (3)	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	20 U	1 U	200 (3) J	1 U	1 U
Isopropylbenzene	--	70	680	**13**	1 U	**11 J**	20 U	1 U	80 (2)	1 U	**2.8**
m- and p-Xylene	--	530	--	**0.65 J**	1 U	**3.9 J**	560 (2)	1 U	**19**	1 U	1 U
Methylene chloride	5	4.6	4.8	1 U	1 U	**2.3 J**	20 U	1 U	1 U	**2.4**	**2.2**
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	20 U	1 U	1 U	1 U	1 U
Naphthalene	--	21	0.14	3.7 (3)	1 U	4.9 (3) J	680 (2,3)	3.5 (3)	300 (2,3)	1 U	1 U
n-Propylbenzene	--	70	--	**5.4**	1 U	**7.4 J**	180 (2)	1 U	120 (2)	1 U	**6.8**
Tetrachloroethene	5	0.7	0.11	1 U	1 U	1 UJ	20 U	1 U	1 U	1 U	1 UJ
trans-1,2-Dichloroethene	100	100	110	**0.92 J**	**1.5**	**8.2 J**	20 U	1 U	**1.3**	1 U	1 U
Trichloroethene	5	2.8	1.7	130 (1,2,3)	17 (1,2,3)	170 (1,2,3) J	20 U	14 (1,2,3)	1 U	1 U	3.2 (2,3)
Vinyl chloride	2	0.015	0.016	260 (1,2,3)	37 (1,2,3)	61 (1,2,3) J	20 U	1 U	45 (1,2,3)	1 U	1 U

Notes:

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TABLE 8

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

Volatile Organic Compounds

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	N2GW36	N2GW41	N2GW44	N4GW07	N4GW09	N4GW14		N5GW03
Sample ID				OU1-N2GW36-0309	OU1-N2GW41-0309	OU1-N2GW44-0309	OU1-N4GW07-0309	OU1-N4GW09-0309	OU1-N4GW14-0309	OU1-N4GW14P-0309	OU1-N5GW03-0309
Sample Date				03/29/09	03/20/09	03/24/09	03/16/09	03/16/09	03/30/09	03/30/09	03/30/09
Chemical Name											
Volatile Organic Compounds (UG/L)											
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	--	70	2.4	1 U	1 U	**3.4 (3)**	1 U	1 UJ	1 U	1 U	1 U
1,1-Dichloroethene	7	7	340	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	1.4	0.43	**39 (2,3)**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	5	1	0.41	**45 (1,2,3)**	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U
Chlorobenzene	100	50	91	**500 (1,2,3)**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	80	70	0.19	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U
Chloromethane	--	2.6	190	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	370	**1.8**	1 U	**99 (1,2)**	1 U	**0.97 J**	**34**	**36**	1 U
Ethylbenzene	700	550	1.5	**73 (3)**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	--	70	680	**72 (2)**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m- and p-Xylene	--	530	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	5	4.6	4.8	1 U	1 U	**2.6**	1 U	1 UJ	3 U	2.9 U	2.8 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U
Naphthalene	--	21	0.14	**260 (2,3)**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	--	70	--	**110 (2)**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.7	0.11	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	110	**0.68 J**	1 U	**3.3**	1 U	1 UJ	**1.9**	**0.83 J**	1 U
Trichloroethene	5	2.8	1.7	**0.95 J**	1 U	**96 (1,2,3)**	1 U	**2.7 (3)**	1 U	1 U	1 U
Vinyl chloride	2	0.015	0.016	1 U	1 U	**1.9 (2,3)**	1 U	1 UJ	**9.7 (1,2,3)**	**11 (1,2,3)**	1 U

Notes:

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TABLE 8

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

Volatile Organic Compounds

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	OU1-S3W3
Sample ID				OU1-S3W3-0309
Sample Date				03/12/09
Chemical Name				
Volatile Organic Compounds (UG/L)				
1,1,1,2-Tetrachloroethane	--	--	0.52	1 U
1,1,1-Trichloroethane	200	200	9,100	1 U
1,1,2,2-Tetrachloroethane	--	0.17	0.067	1 U
1,1-Dichloroethane	--	70	2.4	1 U
1,1-Dichloroethene	7	7	340	1 U
1,2,4-Trimethylbenzene	--	350	15	1 U
1,3,5-Trimethylbenzene	--	350	12	1 U
1,4-Dichlorobenzene	75	1.4	0.43	1 U
Benzene	5	1	0.41	**2.5 (2,3)**
Chlorobenzene	100	50	91	1 U
Chloroform	80	70	0.19	1 U
Chloromethane	--	2.6	190	1 U
cis-1,2-Dichloroethene	70	70	370	**180 (1,2)**
Ethylbenzene	700	550	1.5	1 U
Hexachlorobutadiene	--	0.44	0.86	1 U
Isopropylbenzene	--	70	680	1 U
m- and p-Xylene	--	530	--	1 U
Methylene chloride	5	4.6	4.8	2.8 U
Methyl-tert-butyl ether (MTBE)	--	200	12	1 U
Naphthalene	--	21	0.14	1 U
n-Propylbenzene	--	70	--	1 U
Tetrachloroethene	5	0.7	0.11	1 U
trans-1,2-Dichloroethene	100	100	110	**13**
Trichloroethene	5	2.8	1.7	**56 (1,2,3)**
Vinyl chloride	2	0.015	0.016	**34 (1,2,3)**

Notes:

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3. Red bolding indicates exceedance of RSLs

TABLE 9

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

Semi-Volatile Organic Compounds and Pesticides/Polychlorinated Biphenyls

Marine Corps Air Station Cherry Point, North Carolina

Station ID	MCL	NC2L	RSLs for Tapwater	16GW49		17GW03	
Sample ID				OU1-16GW49-0509	OU1-16GW49P-0509	OU1-17GW03-0509	OU1-17GW03P-0509
Sample Date				05/06/09	05/06/09	05/06/09	05/06/09
Chemical Name							
Semivolatile Organic Compounds (UG/L)							
2-Methylnaphthalene	--	14	150	0.22 U	0.22 U	NA	NA
Acenaphthene	--	80	2,200	0.22 U	0.22 U	NA	NA
Acenaphthylene	--	210	2,200	0.22 U	0.22 U	NA	NA
Anthracene	--	2,100	11,000	0.22 U	0.22 U	NA	NA
Benzo(a)anthracene	--	0.0479	0.029	0.22 U	0.22 U	NA	NA
Benzo(a)pyrene	0.2	0.00479	0.0029	0.22 UJ	0.22 UJ	NA	NA
Benzo(b)fluoranthene	--	0.0479	0.029	0.22 UJ	0.22 UJ	NA	NA
Benzo(g,h,i)perylene	--	210	1,100	0.22 UJ	0.22 UJ	NA	NA
Benzo(k)fluoranthene	--	0.479	0.29	0.22 UJ	0.22 UJ	NA	NA
Chrysene	--	4.79	2.9	0.22 U	0.22 U	NA	NA
Dibenz(a,h)anthracene	--	0.0047	0.0029	0.22 U	0.22 U	NA	NA
Fluoranthene	--	280	1,500	0.22 U	0.22 U	NA	NA
Fluorene	--	280	1,500	0.22 U	0.22 U	NA	NA
Indeno(1,2,3-cd)pyrene	--	0.0479	0.029	0.22 UJ	0.22 UJ	NA	NA
Naphthalene	--	21	0.14	0.22 UJ	0.22 UJ	NA	NA
Phenanthrene	--	210	11,000	0.22 U	0.22 U	NA	NA
Pyrene	--	210	1,100	0.22 UJ	0.22 UJ	NA	NA
Pesticide/Polychlorinated Biphenyls (UG/L)							
4,4'-DDD	--	0.14	0.28	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	--	--	0.2	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	--	0.1	0.2	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	--	--	0.004	0.05 U	0.05 U	0.05 U	0.05 U
alpha-BHC	--	0.019	0.011	0.05 U	0.05 U	0.05 U	0.05 U
alpha-Chlordane	--	0.1	0.19	0.05 U	0.05 U	0.05 U	0.05 U
Aroclor-1016	0.5	--	0.96	NA	NA	0.5 U	0.5 U
Aroclor-1221	0.5	--	0.0068	NA	NA	0.5 U	0.5 U
Aroclor-1232	0.5	--	0.0068	NA	NA	0.5 U	0.5 U
Aroclor-1242	0.5	--	0.034	NA	NA	0.5 U	0.5 U
Aroclor-1248	0.5	--	0.034	NA	NA	0.5 U	0.5 U
Aroclor-1254	0.5	--	0.034	NA	NA	0.5 U	0.5 U
Aroclor-1260	0.5	--	0.034	NA	NA	0.5 U	0.5 U
beta-BHC	--	0.019	0.037	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	--	0.019	0.037	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	--	0.0022	0.0042	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	--	--	220	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan II	--	42	220	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	--	--	220	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	2	2	11	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	2	2.1	11	0.05 UJ	0.05 U	0.05 U	0.05 U
Endrin ketone	2	2.1	11	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.2	0.2	0.061	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	--	0.1	0.19	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.4	0.0078	0.015	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	0.2	0.0038	0.0074	0.05 U	0.05 U	0.05 U	0.05 U
Methoxychlor	40	35	180	0.05 U	0.05 U	0.05 U	0.05 U
Toxaphene	3	0.031	0.061	1 U	1 U	1 U	1 U

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	14GW18	14GW49	14GW51	14GW53	16GW01	16GW02	16GW03	16GW04	16GW05
Sample ID				OU1-14GW18-0309	OU1-14GW49-0309	OU1-14GW51-0309	OU1-14GW53-0509	OU1-16GW01-0309	OU1-16GW02-0309	OU1-16GW03-0309	OU1-16GW04-0309	OU1-16GW05-0309
Sample Date				03/27/09	03/28/09	03/27/09	05/06/09	03/10/09	03/11/09	03/11/09	03/11/09	03/30/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	3.9 U	3.8 UJ	12 U	**8**	7.4 UJ	**30**	**34 J**	13 UJ	11 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	**50**	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	**8**	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	3.3 U	3.3 U	**2,000 J**	73 U	3.3 U	**1,500 J**	**790 J**	**650**	3.3 U
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	**0.15**	**0.11 J**	0.1 UJ	0.1 UJ	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**2.8**	**3.8**	**3.8**	**2.8**	**3.1**	**6.5**	**2.1**	**2.7**	**26**

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Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	16GW06	16GW08		16GW09	16GW10	16GW11	16GW16	16GW21	16GW28
Sample ID				OU1-16GW06-0309	OU1-16GW08-0309	OU1-16GW08P-0309	OU1-16GW09-0309	OU1-16GW10-0309	OU1-16GW11-0309	OU1-16GW16-0309	OU1-16GW21-0309	OU1-16GW28-0309
Sample Date				03/13/09	03/28/09	03/28/09	03/11/09	03/15/09	03/16/09	03/10/09	03/24/09	03/13/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	8.4 U	7.5 UJ	7.8 UJ	8.2 UJ	6.1 U	6.4 U	15 UJ	6.3 U	8.8 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	**5 J**
Ethene (UG/L)	--	--	--	**5.2 J**	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**100 J**	**88 J**	**130 J**	17 U	3.9 U	3.3 U	11 U	**2,000 J**	**970 J**
Nitrate (MG/L)	--	--	--	0.1 U	**0.35**	**0.21**	0.1 UJ	**0.56 J**	**1.3 J**	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**2.1**	**1.5**	**1.6**	**3.2**	**1.4**	**2.1**	**7**	**2.7**	**3.4**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	16GW29	16GW30	16GW31	16GW32	16GW33	16GW34	16GW35	16GW36	16GW37
Sample ID				OU1-16GW29-0309	OU1-16GW30-0309	OU1-16GW31-0309	OU1-16GW32-0309	OU1-16GW33-0309	OU1-16GW34-0309	OU1-16GW35-0309	OU1-16GW36-0309	OU1-16GW37-0309
Sample Date				03/13/09	03/12/09	03/12/09	03/13/09	03/12/09	03/13/09	03/13/09	03/28/09	03/28/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	15 U	8.2 UJ	**21 J**	10 U	**24 J**	29 U	19 U	7.5 UJ	6.4 UJ
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**8,200 J**	**910 J**	**4,300 J**	6.1 U	**3,500 J**	**280 J**	14 U	**3,300 J**	**980 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	**0.26**	0.1 U	0.1 U	**0.1**	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**14**	**4.6**	**5.2**	**8.7**	**48**	**2.6**	**5.8**	**4.3**	**1.7**

Notes:

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9. NA - Not analyzed

10. "--" - No screening criteria exists

11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	16GW40	16GW41	16GW42	16GW49		16GW50	16GW51	16GW52	42GW05
Sample ID				OU1-16GW40-0309	OU1-16GW41-0309	OU1-16GW42-0309	OU1-16GW49-0509	OU1-16GW49P-0509	OU1-16GW50-0509	OU1-16GW51-0509	OU1-16GW52-0509	OU1-42GW05-0309
Sample Date				03/11/09	03/11/09	03/11/09	05/06/09	05/06/09	05/07/09	05/06/09	05/06/09	03/25/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	12 UJ	13 UJ	9.6 UJ	**14**	NA	**9.7**	**10**	**7.2**	**20**
Ethane (UG/L)	--	--	--	6.2 U	**5.9 J**	**4.2 J**	6.2 UJ	NA	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 UJ	NA	5.8 U	5.8 U	5.8 U	**230 J**
Methane (UG/L)	--	--	--	**150 J**	**1,400 J**	**1,100 J**	160 U	NA	**370 J**	100 U	30 U	**6,000 J**
Nitrate (MG/L)	--	--	--	**0.32 J**	0.1 UJ	0.1 UJ	**0.15**	NA	0.1 U	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	NA	0.1 UJ	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**1.1**	**3.2**	**3.2**	**4.8**	NA	**2**	**2.2**	**1.5**	**8.8**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	42GW08	42GW15	42GW16	42GW17		42GW18	42GW19	42GW20	42GW21
Sample ID				OU1-42GW08-0309	OU1-42GW15-0309	OU1-42GW16-0509	OU1-42GW17-0509	OU1-42GW17P-0509	OU1-42GW18-0509	OU1-42GW19-0509	OU1-42GW20-0509	OU1-42GW21-0509
Sample Date				03/25/09	03/28/09	05/05/09	05/06/09	05/06/09	05/05/09	05/05/09	05/05/09	05/05/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	7.7 U	9.5 UJ	**8.9**	**9.3**	**9.4**	**9.7**	**7.7**	**10 J**	**8.7**
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	3.3 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	9.2 U	**460 J**	**86**	64 U	78 U	**320**	**1,300 J**	**960 J**	87 U
Nitrate (MG/L)	--	--	--	**0.46 J**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**1.7**	**1.9**	**1.1**	**2.2**	**2.2**	**2.6**	**1.8**	**4.7**	1 U

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	42GW22	42GW23	47GW05	47GW06	47GW07	47GW08	47GW09		47GW10
Sample ID				OU1-42GW22-0509	OU1-42GW23-0509	OU1-47GW05-0309	OU1-47GW06-0309	OU1-47GW07-0309	OU1-47GW08-0309	OU1-47GW09-0309	OU1-47GW09P-0309	OU1-47GW10-0309
Sample Date				05/05/09	05/05/09	03/26/09	03/26/09	03/26/09	03/26/09	03/27/09	03/27/09	03/27/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	**15**	**11**	56 U	6.4 U	**30**	7.4 U	**25**	**24**	5.3 U
Ethane (UG/L)	--	--	--	**17**	6.2 U	**570 J**	6.2 U	**42**	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	**12**	5.8 U	**58**	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**2,400**	**940**	**10,000 J**	**1,000 J**	**6,300 J**	**1,200 J**	**740 J**	**680 J**	**48 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**2.8**	**2.3**	**10**	**4.7**	**5.8**	**3.7**	**8.8**	**8.8**	**3.7**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	47GW10	47GW11	47GW12	47GW17	47GW18	47GW19	47GW20	47GW25	51EX10
Sample ID				OU1-47GW10P-0309	OU1-47GW11-0309	OU1-47GW12-0309	OU1-47GW17-0309	OU1-47GW18-0309	OU1-47GW19-0309	OU1-47GW20-0309	OU1-47GW25-0309	OU1-51EX10-0309
Sample Date				03/27/09	03/26/09	03/26/09	03/26/09	03/26/09	03/26/09	03/27/09	03/26/09	03/27/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	5.2 U	12 U	15 U	7.8 U	**25**	8.8 U	10 U	8.9 U	13 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	**20**	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**80 J**	**310 J**	**240 J**	**5,500 J**	**29**	**7,600 J**	**100 J**	**10,000 J**	**2,700 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 UJ	0.1 UJ	**0.68 J**	**1.4 J**	0.1 UJ	**2.1**	0.1 UJ	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**3.5**	**5.7**	**1.9**	**5.8**	**3.4**	**4.7**	**3.2**	**4.9**	**5.2**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	51EX12	51EX13	51EX16	51EX17	51EX18	51EX19	51GW02	52GW01	52GW07
Sample ID				OU1-51EX12-0309	OU1-51EX13-0309	OU1-51EX16-0309	OU1-51EX17-0309	OU1-51EX18-0309	OU1-51EX19-0309	OU1-51GW02-0309	OU1-52GW01-0309	OU1-52GW07-0309
Sample Date				03/29/09	03/25/09	03/25/09	03/25/09	03/28/09	03/28/09	03/26/09	03/24/09	03/24/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	14 U	14 U	13 U	17 U	9.9 UJ	9.9 UJ	**24**	14 U	**22**
Ethane (UG/L)	--	--	--	**65 J**	**2,900 J**	**34**	6.2 U	6.2 U	**10**	**8.4**	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**4,300 J**	3.3 U	**660 J**	**2,900**	**1,200 J**	**1,600 J**	**8,300 J**	**6,100 J**	**100 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	**0.2 J**	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	**0.13**
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**6.4**	**3.8**	**9.1**	**5.7**	**3.3**	**8.4**	**21**	**4**	**4.9**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW08	52GW10	52GW11	52GW15	52GW16	52GW17		52GW18	52GW19
Sample ID				OU1-52GW08-0309	OU1-52GW10-0309	OU1-52GW11-0309	OU1-52GW15-0309	OU1-52GW16-0309	OU1-52GW17-0309	OU1-52GW17P-0309	OU1-52GW18-0309	OU1-52GW19-0309
Sample Date				03/24/09	03/24/09	03/24/09	03/20/09	03/22/09	03/22/09	03/22/09	03/22/09	03/22/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	**34**	**21**	**44**	9.1 U	9.2 U	**22**	**23**	**22**	8.4 U
Ethane (UG/L)	--	--	--	**460 J**	6.2 U	6.2 U	6.2 U	6.2 UJ	**16**	**14**	**32**	6.2 U
Ethene (UG/L)	--	--	--	**24**	5.8 U	5.8 U	5.8 U	5.8 UJ	5.8 U	5.8 U	**6.2**	5.8 U
Methane (UG/L)	--	--	--	**3,200 J**	**1,300 J**	**5,800 J**	**38 J**	**140 J**	**4,100 J**	**3,400 J**	**4,800 J**	**110 J**
Nitrate (MG/L)	--	--	--	**0.38**	**0.56**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**5.8**	**16**	**11**	**4.8**	**1.4**	**5**	**5.2**	**4.4**	**2.1**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW19	52GW20	52GW21		52GW22	52GW23	52GW24	52GW26	
Sample ID				OU1-52GW19P-0309	OU1-52GW20-0309	OU1-52GW21-0309	OU1-52GW21P-0309	OU1-52GW22-0309	OU1-52GW23-0309	OU1-52GW24-0309	OU1-52GW26-0309	OU1-52GW26P-0309
Sample Date				03/22/09	03/23/09	03/24/09	03/24/09	03/23/09	03/23/09	03/20/09	03/23/09	03/23/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	8.3 U	7.7 U	7.5 U	12 U	7.3 U	7.2 U	7.2 U	8 U	7.9 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 UJ	6.2 U	6.2 U	6.2 UJ	6.2 UJ	6.2 U	6.2 UJ	6.2 UJ
Ethene (UG/L)	--	--	--	5.8 U	5.8 UJ	5.8 U	5.8 U	5.8 UJ	5.8 UJ	5.8 U	5.8 UJ	5.8 UJ
Methane (UG/L)	--	--	--	**120 J**	**61 J**	**60 J**	**69 J**	**48 J**	**38 J**	**86 J**	**33 J**	**49 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**2.5**	**2.5**	**2.6**	**2.9**	**1.3**	**1.9**	**2.5**	**1.4**	**1.4**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW27	52GW28		52GW29	52GW30	52GW31	52GW32	52GW33	52GW34
Sample ID				OU1-52GW27-0309	OU1-52GW28-0309	OU1-52GW28P-0309	OU1-52GW29-0309	OU1-52GW30-0309	OU1-52GW31-0309	OU1-52GW32-0309	OU1-52GW33-0309	OU1-52GW34-0309
Sample Date				03/20/09	03/20/09	03/20/09	03/20/09	03/24/09	03/24/09	03/19/09	03/19/09	03/17/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	11 U	**29**	**30**	9.3 U	8.7 U	16 U	8.6 U	7.8 U	7.4 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 UJ	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	**4.9 J**	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**350 J**	**120 J**	**110 J**	**79 J**	**49 J**	**1,600 J**	**200 J**	**170 J**	**160 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**2.2**	**4.6**	**4.8**	**1.8**	1 U	**4.2**	**1.7**	**2.6**	**2.3**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW35	52GW36	52GW37	52GW38	52GW39	52GW40	52GW41		52GW42
Sample ID				OU1-52GW35-0309	OU1-52GW36-0309	OU1-52GW37-0309	OU1-52GW38-0309	OU1-52GW39-0309	OU1-52GW40-0309	OU1-52GW41-0309	OU1-52GW41P-0309	OU1-52GW42-0309
Sample Date				03/17/09	03/17/09	03/17/09	03/18/09	03/18/09	03/17/09	03/17/09	03/17/09	03/18/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	13 U	7.9 U	16 U	8.4 U	3.8 U	8.2 U	5.2 U	5.4 U	9 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**900 J**	22 U	**250 J**	**47 J**	**120 J**	**160 J**	**73 J**	**77 J**	**45 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**10**	**1.2**	**1.9**	**2.4**	**4.4**	**1.5**	**4.1**	**4.1**	**1.3**

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

3. Red bolding indicates exceedance of RSLs

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6. J - Reported value is estimated

7. J+ - Reported value is estimated biased high

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9. NA - Not analyzed

10. "--" - No screening criteria exists

11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW43	52GW44		52GW45	52GW46		52GW47	52GW48	52GW49
Sample ID				OU1-52GW43-0309	OU1-52GW44-0309	OU1-52GW44P-0309	OU1-52GW45-0309	OU1-52GW46-0309	OU1-52GW46P-0309	OU1-52GW47-0309	OU1-52GW48-0309	OU1-52GW49-0309
Sample Date				03/19/09	03/19/09	03/19/09	03/17/09	03/16/09	03/16/09	03/18/09	03/18/09	03/30/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	8 U	13 U	13 U	9.8 U	15 U	15 U	10 U	10 U	10 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 UJ	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	**28**	**40**	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**48 J**	**20,000 J**	**16,000 J**	13 U	**110 J**	**160 J**	**44 J**	**61 J**	**58 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**1.1**	**6.7**	**6.9**	**1.4**	**2.2**	**2.2**	**2**	**3.1**	**1.8**

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11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW49	52GW50	52GW51	52GW52	52GW53	52GW54	52GW55	52GW56
Sample ID				OU1-52GW49P-0309	OU1-52GW50-0309	OU1-52GW51-0309	OU1-52GW52-0309	OU1-52GW53-0309	OU1-52GW54-0309	OU1-52GW55-0309	OU1-52GW56-0309
Sample Date				03/30/09	03/17/09	03/17/09	03/17/09	03/17/09	03/19/09	03/18/09	03/18/09
Chemical Name											
Wet Chemistry											
Chloride (MG/L)	--	--	--	10 U	7 U	6.4 U	11 U	10 U	9.4 U	0.1 U	5.4 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	**110 J**	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**63 J**	**86 J**	**110 J**	**33**	**400 J**	**130 J**	**89 J**	**170 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**8.3 J**	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**1.4**	**1.4**	**5.2**	**1.4**	**2.9**	**1.6**	**1.3**	**5.8**

Notes:

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW57	52GW58	52GW59	52GW60	52GW61	52GW62	52GW63	52GW64
Sample ID				OU1-52GW57-0309	OU1-52GW58-0309	OU1-52GW59-0309	OU1-52GW60-0309	OU1-52GW61-0309	OU1-52GW62-0309	OU1-52GW63-0309	OU1-52GW64-0309
Sample Date				03/18/09	03/18/09	03/19/09	03/17/09	03/16/09	03/16/09	03/19/09	03/19/09
Chemical Name											
Wet Chemistry											
Chloride (MG/L)	--	--	--	7.6 U	6.8 U	6.6 U	8.9 U	11 U	9.7 U	9.2 U	**26**
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	**26**	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**210 J**	**81 J**	**90 J**	**150 J**	**41 J**	**130 J**	**68 J**	**52 J**
Nitrate (MG/L)	--	--	--	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**1.8**	**3.2**	**1.9**	**1.6**	**1.5**	**5**	**1.2**	**1.9**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW65	52GW66	52GW67	52GW68	52GW69	52GW70	52GW71	52GW72
Sample ID				OU1-52GW65-0309	OU1-52GW66-0309	OU1-52GW67-0309	OU1-52GW68-0309	OU1-52GW69-0309	OU1-52GW70-0309	OU1-52GW71-0309	OU1-52GW72-0309
Sample Date				03/19/09	03/19/09	03/19/09	03/19/09	03/17/09	03/17/09	03/18/09	03/18/09
Chemical Name											
Wet Chemistry											
Chloride (MG/L)	--	--	--	8.5 U	12 U	10 U	9.6 U	7.2 U	6.3 U	0.1 U	0.1 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	**5.2 J**	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**120 J**	**66 J**	**100 J**	**270 J**	**120 J**	**28**	**300 J**	25 U
Nitrate (MG/L)	--	--	--	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**8.4 J**	0.1 UJ
Nitrogen (MG/L)	--	--	--	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**6.1 J**
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**1**	**1.5**	**1.9**	**2.3**	**1.2**	**2.1**	**1.5**	**1.8**

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11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	52GW73	52GW74	52GW76	OU1-GW75	OU1-GW76	OU1-MW01		OU1-MW12	OU1-MW20
Sample ID				OU1-52GW73-0309	OU1-52GW74-0309	OU1-52GW76-0309	OU1-GW75-0309	OU1-GW76-0309	OU1-MW01-0309	OU1-MW01P-0309	OU1-MW12-0309	OU1-MW20-0309
Sample Date				03/19/09	03/19/09	03/23/09	03/30/09	03/27/09	03/25/09	03/25/09	03/11/09	03/26/09
Chemical Name												
Wet Chemistry												
Chloride (MG/L)	--	--	--	11 U	7.2 U	17 U	8.1 U	11 U	16 U	16 U	**43**	10 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 UJ	6.2 U	**8.4**	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 UJ	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**33**	27 U	**1,200 J**	**550 J**	**1,300 J**	**8,300**	**2,600 J**	**980 J**	8.5 U
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	**0.24 J**
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**1.5**	**2.6**	**6.8**	**1.3**	**2.1**	**4.4**	**4.3**	**14**	**3**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	OU1-MW21	OU1-MW23		OU1-MW28	OU1-MW37	OU1-MW38	OU1-MW39	OU1-MW40
Sample ID				OU1-MW21-0309	OU1-MW23-0309	OU1-MW23P-0309	OU1-MW28-0309	OU1-MW37-0309	OU1-MW38-0309	OU1-MW39-0309	OU1-MW40-0309
Sample Date				03/26/09	03/26/09	03/26/09	03/12/09	03/27/09	03/13/09	03/13/09	03/29/09
Chemical Name											
Wet Chemistry											
Chloride (MG/L)	--	--	--	4.9 U	6.6 U	6.3 U	10 UJ	7.8 U	12 U	12 U	6.4 U
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**110 J**	**560 J**	**530 J**	8 U	**63 J**	14 U	**730 J**	**43 J**
Nitrate (MG/L)	--	--	--	0.1 UJ	0.1 UJ	0.1 UJ	**1.3**	**0.29**	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**2.4**	**3.8**	**3.7**	**1**	**1.1**	**5.4**	**6.8**	**1.2**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	OU1-MW41	OU1-MW42	OU1-MW43	OU1-MW44	OU1-MW45	OU1-MW48	OU1-MW50	OU1-MW51
Sample ID				OU1-MW41-0309	OU1-MW42-0309	OU1-MW43-0309	OU1-MW44-0309	OU1-MW45-0309	OU1-MW48-0309	OU1-MW50-0309	OU1-MW51-0309
Sample Date				03/29/09	03/29/09	03/29/09	03/29/09	03/29/09	03/11/09	03/10/09	03/10/09
Chemical Name											
Wet Chemistry											
Chloride (MG/L)	--	--	--	6.6 U	180 U	6.3 U	14 U	6.9 U	9 UJ	19 UJ	13 UJ
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**2,900 J**	**2,800 J**	**3,100 J**	**75 J**	**2,400 J**	**760 J**	**420 J**	**1,200 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	**10**	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**5.4**	**58**	**7.2**	**1.4**	**6**	**4.5**	**9.5**	**5.3**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	OU1-MW53		OU1-MW55	OU1-MW58	OU1-MW59	OU1-MW64	OU1-MW73	N2GW07
Sample ID				OU1-MW53-0309	OU1-MW53P-0309	OU1-MW55-0309	OU1-MW58-0309	OU1-MW59-0309	OU1-MW64-0309	OU1-MW73-0309	OU1-N2GW07-0309
Sample Date				03/15/09	03/15/09	03/15/09	03/28/09	03/16/09	03/24/09	03/27/09	03/23/09
Chemical Name											
Wet Chemistry											
Chloride (MG/L)	--	--	--	10 U	9.9 U	7.7 U	8.9 UJ	13 U	9 U	7.4 U	**21**
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	**12**	6.2 U	6.2 U	**27 J**
Ethene (UG/L)	--	--	--	**3.9 J**	**4.2 J**	5.8 U	5.8 U	5.8 U	5.8 U	**1,100**	**5.2 J**
Methane (UG/L)	--	--	--	**85 J**	**79 J**	**180 J**	4.8 U	**5,100 J**	**76 J**	**700 J**	**6,800 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**1.7**	**1.5**	**2.7**	**4.3**	**3**	**21**	**7.3**	**11**

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TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	N2GW15	N2GW17	N2GW18	N2GW25	N2GW27	N2GW28	N2GW29	N2GW36
Sample ID				OU1-N2GW15-0309	OU1-N2GW17-0309	OU1-N2GW18-0309	OU1-N2GW25-0309	OU1-N2GW27-0309	OU1-N2GW28-0309	OU1-N2GW29-0309	OU1-N2GW36-0309
Sample Date				03/22/09	03/20/09	03/24/09	03/29/09	03/22/09	03/22/09	03/20/09	03/29/09
Chemical Name											
Wet Chemistry											
Chloride (MG/L)	--	--	--	15 U	17 U	13 U	12 U	**33**	**27**	13 U	10 U
Ethane (UG/L)	--	--	--	6.2 U	**130 J**	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	**6**
Methane (UG/L)	--	--	--	**5,800 J**	**2,700 J**	**4,500 J**	**290 J**	**9,100 J**	**600 J**	**5,400 J**	**2,900 J**
Nitrate (MG/L)	--	--	--	0.1 U	0.1 U	2 U	**0.17**	0.1 U	0.1 U	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	2 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	**2.6**	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**4.8**	**5.4**	**28**	**2.1**	**41**	**9.9**	**2.4**	**6.6**

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

3. Red bolding indicates exceedance of RSLs

4. Both screening criteria have been assigned a reference number listed in parentheses in the column header. The reference number is used to identify which criteria has been exceeded in a particular samples.

5. U - Analyte not detected

6. J - Reported value is estimated

7. J+ - Reported value is estimated biased high

8. UJ - Analyte not detected. Quanitation limit is imprecise

9. NA - Not analyzed

10. "--" - No screening criteria exists

11. [1] Duplicate sample taken at location, most conservative value reported

TABLE 10

Groundwater Results Exceeding Screening Criteria, Spring 2009 Sampling Event

General Parameters

Marine Corps Air Station Cherry Point, North Carolina

Station ID	**MCL**	**NC2L**	**RSLs for Tapwater**	N2GW41	N2GW44	N4GW07	N4GW09	N4GW14		N5GW03	OU1-S3W3
Sample ID				OU1-N2GW41-0309	OU1-N2GW44-0309	OU1-N4GW07-0309	OU1-N4GW09-0309	OU1-N4GW14-0309	OU1-N4GW14P-0309	OU1-N5GW03-0309	OU1-S3W3-0309
Sample Date				03/20/09	03/24/09	03/16/09	03/16/09	03/30/09	03/30/09	03/30/09	03/12/09
Chemical Name											
Wet Chemistry											
Chloride (MG/L)	--	--	--	8.6 U	8.1 U	12 U	8.7 U	6 U	6.1 U	9.9 U	10 UJ
Ethane (UG/L)	--	--	--	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Ethene (UG/L)	--	--	--	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methane (UG/L)	--	--	--	**37 J**	**62 J**	**33**	**82 J**	16 U	13 U	**110 J**	**300 J**
Nitrate (MG/L)	--	--	--	0.1 U	**0.15**	0.1 U	0.1 U	**1.1**	**1.1**	0.1 U	0.1 U
Nitrogen (MG/L)	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfide (MG/L)	--	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total organic carbon (TOC) (MG/L)	--	--	--	**1.5**	**1.7**	**1.7**	**1**	**2.3**	**2.4**	**2.1**	**3.7**

Notes:

1. Bold indicates detections

2. Blue bolding indicates exceedance of MCL or NC2LGW and possibly RSLs

3. Red bolding indicates exceedance of RSLs

4. Both screening criteria have been assigned a reference number listed in parentheses in the column header. The reference number is used to identify which criteria has been exceeded in a particular samples.

5. U - Analyte not detected

6. J - Reported value is estimated

7. J+ - Reported value is estimated biased high

8. UJ - Analyte not detected. Quanitation limit is imprecise

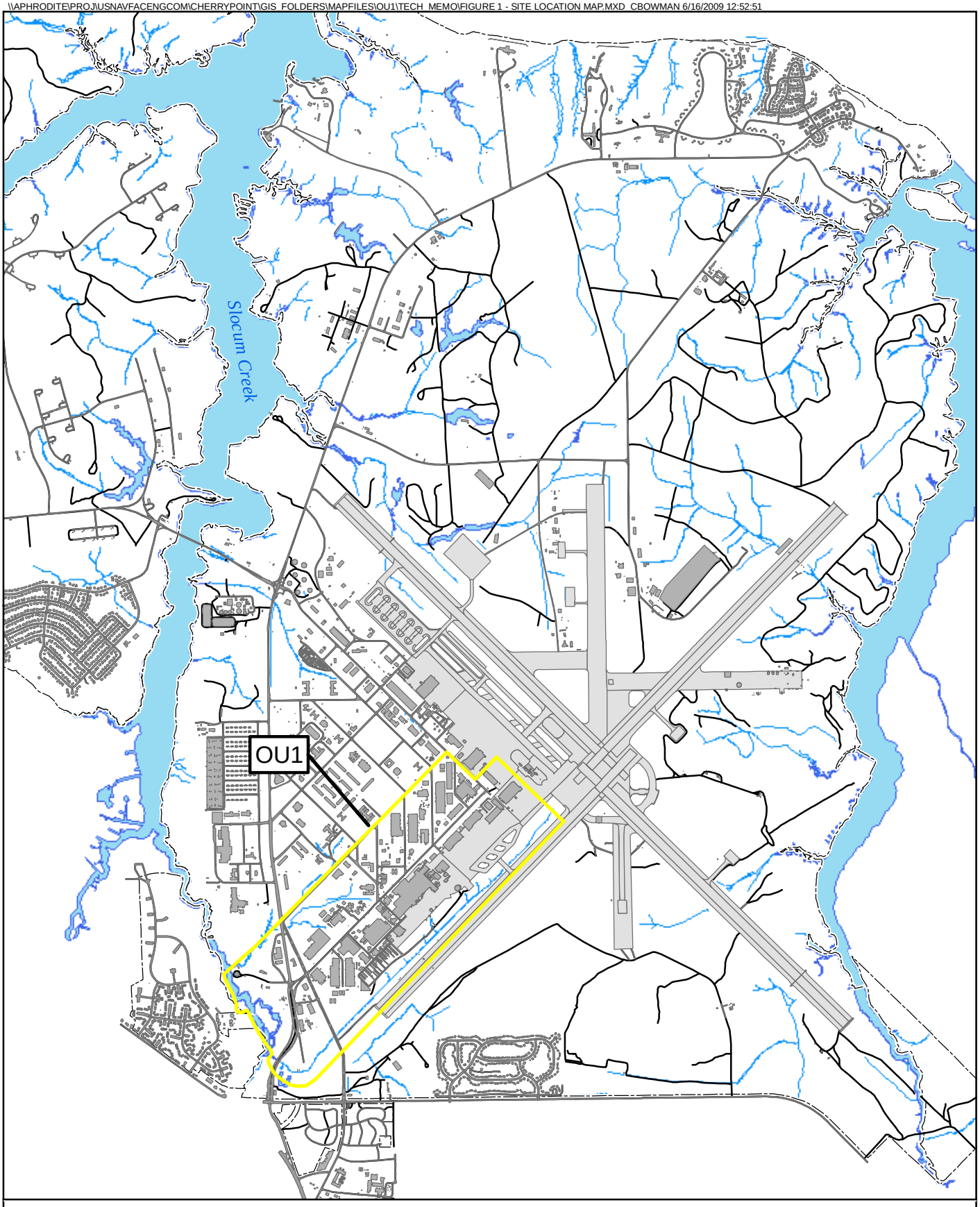
9. NA - Not analyzed

10. "--" - No screening criteria exists

11. [1] Duplicate sample taken at location, most conservative value reported

Figures

\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 1 - SITE LOCATION MAP.MXD CBOWMAN 6/16/2009 12:52:51



Legend

- OU Boundary
- Base Boundary
- Buildings
- Runway
- Road
- Surface Water

N
W E
S

0 1,500 3,000
Feet

Figure 1
OU1 - Site Location Map
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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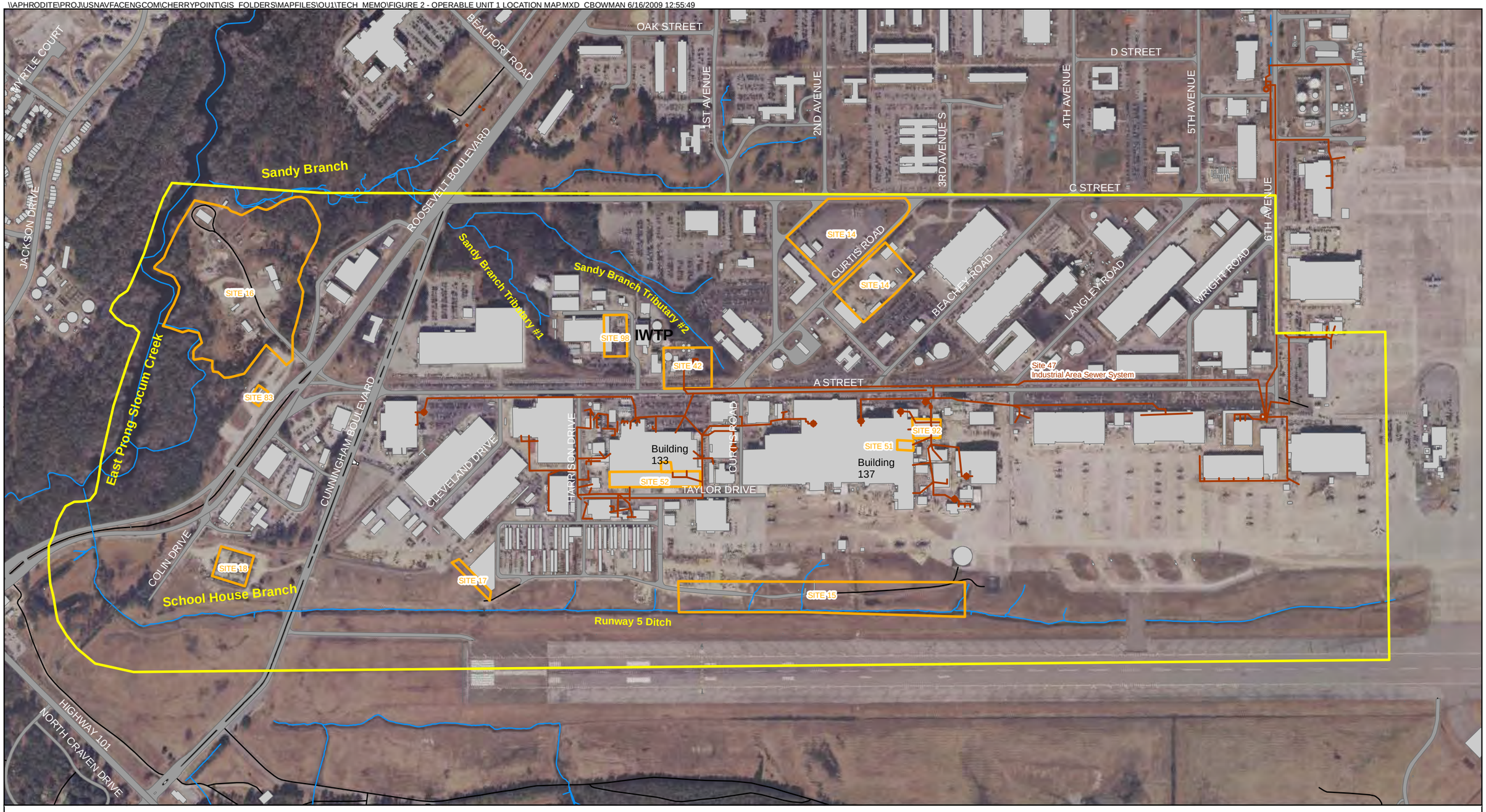
\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 2 - OPERABLE UNIT 1 LOCATION MAP.MXD CBOWMAN 6/16/2009 12:55:49



Legend

- Surface Water
- Industrial Area Sewer System
- Site Boundary
- OU1 Boundary
- Existing Buildings

IWTP - Industrial Wastewater Treatment Plant

N W E S

0 500 1,000 Feet

Figure 2
Operable Unit 1 Location Map
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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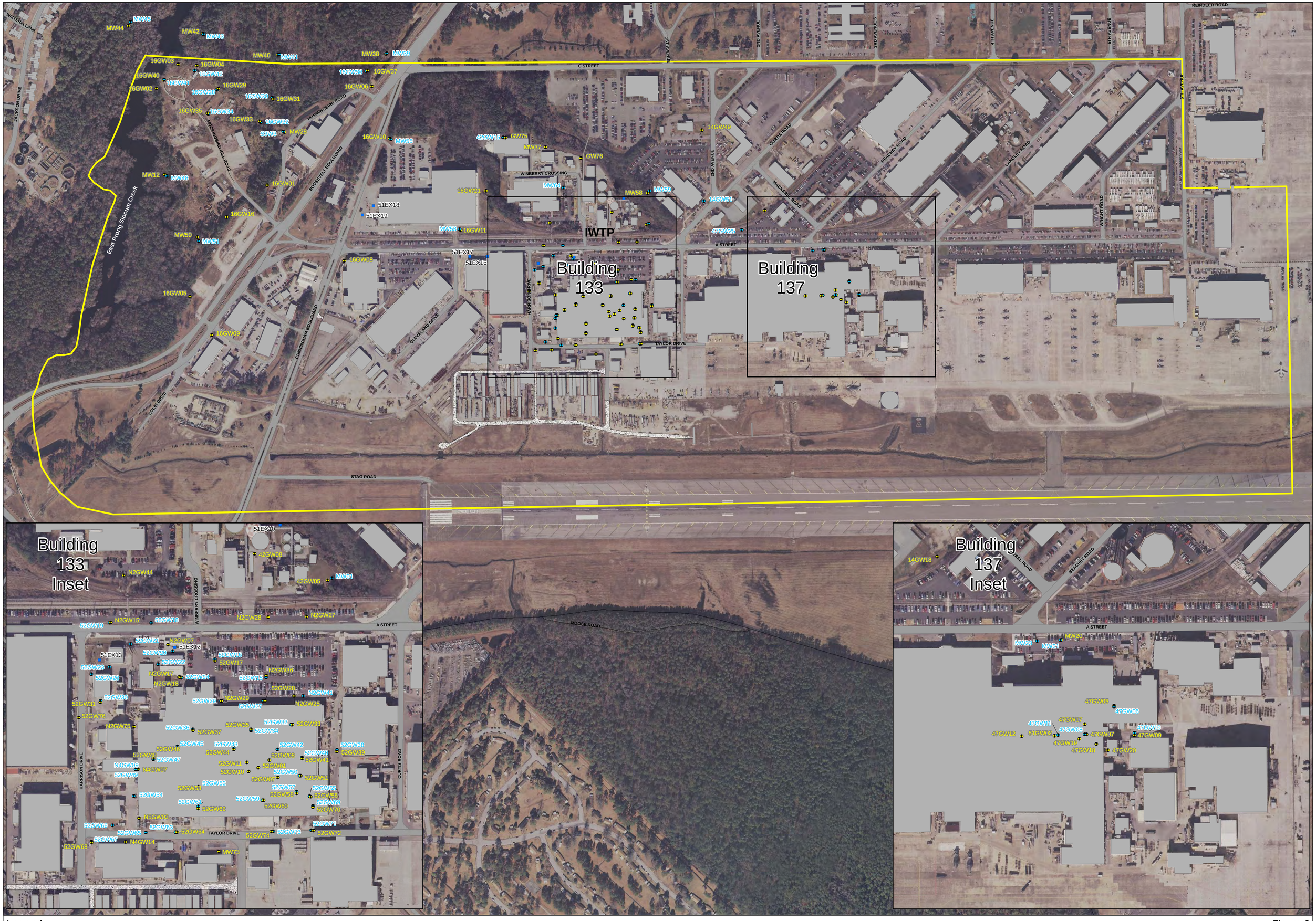
\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 3 - 2009 OU1 MONITORING WELL NETWORK.MXD CBOWMAN 5/28/2009 11:32:16



Legend

- Extraction Well
- Upper Surficial Monitoring Well
- Lower Surficial Monitoring Well
- Existing Buildings
- OU1 Boundary

IWTP - Industrial Wastewater Treatment Plant

0 210 420 630 840 1,050 1,260 Feet

0 100 200 300 Feet

N W E S

Figure 3
Groundwater Monitoring Event, Monitoring Well Locations
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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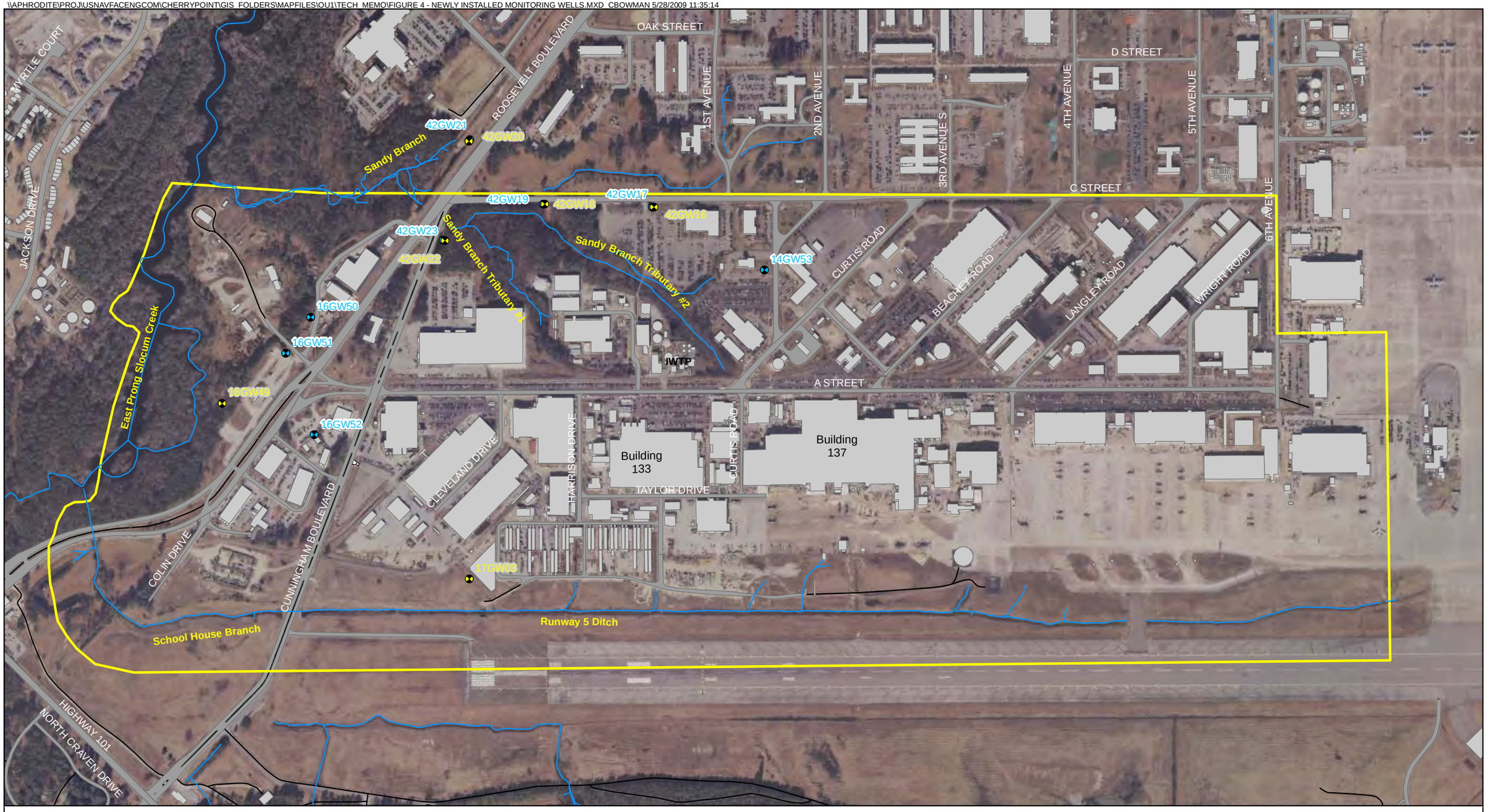
\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 4 - NEWLY INSTALLED MONITORING WELLS.MXD CBOWMAN 5/28/2009 11:35:14



Legend

- Lower Surficial Monitoring Well
- Upper Surficial Monitoring Well
- Surface Water
- OU1 Boundary
- Existing Buildings

IWTP - Industrial Wastewater Treatment Plant

N W E S

0 600 1,200
Feet

Figure 4
Newly Installed Monitoring Wells
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 5 - GW CONTOUR UPPER SURFICIAL.MXD CBOWMAN 5/28/2009 11:39:51

Legend

- Extraction Well
- Monitoring Well
- Groundwater Elevation Contour (ft msl)
- Surface Water
- Operable Unit (OU) Boundary
- Existing Buildings
- Paved

Notes:
1. ft msl - feet (relative to) mean sea level
2. NU - Not used in contouring

N W E S

0 200 400
Feet

Figure 5
Groundwater Elevation Map
Upper Surficial Aquifer
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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\\APHRODITE\PROJ\USNAVFACENGCOMCHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 6 - GW CONTOUR LOWER SURFICIAL .MXD CBOWMAN 5/28/2009 11:41:32

Legend

- Extraction Well
- Monitoring Well
- Groundwater Elevation Contour (ft msl)
- Surface Water
- Operable Unit (OU) Boundary
- Existing Buildings
- Paved

Notes:
1. ft msl - feet (relative to) mean sea level
2. NU - Not used in contouring

N

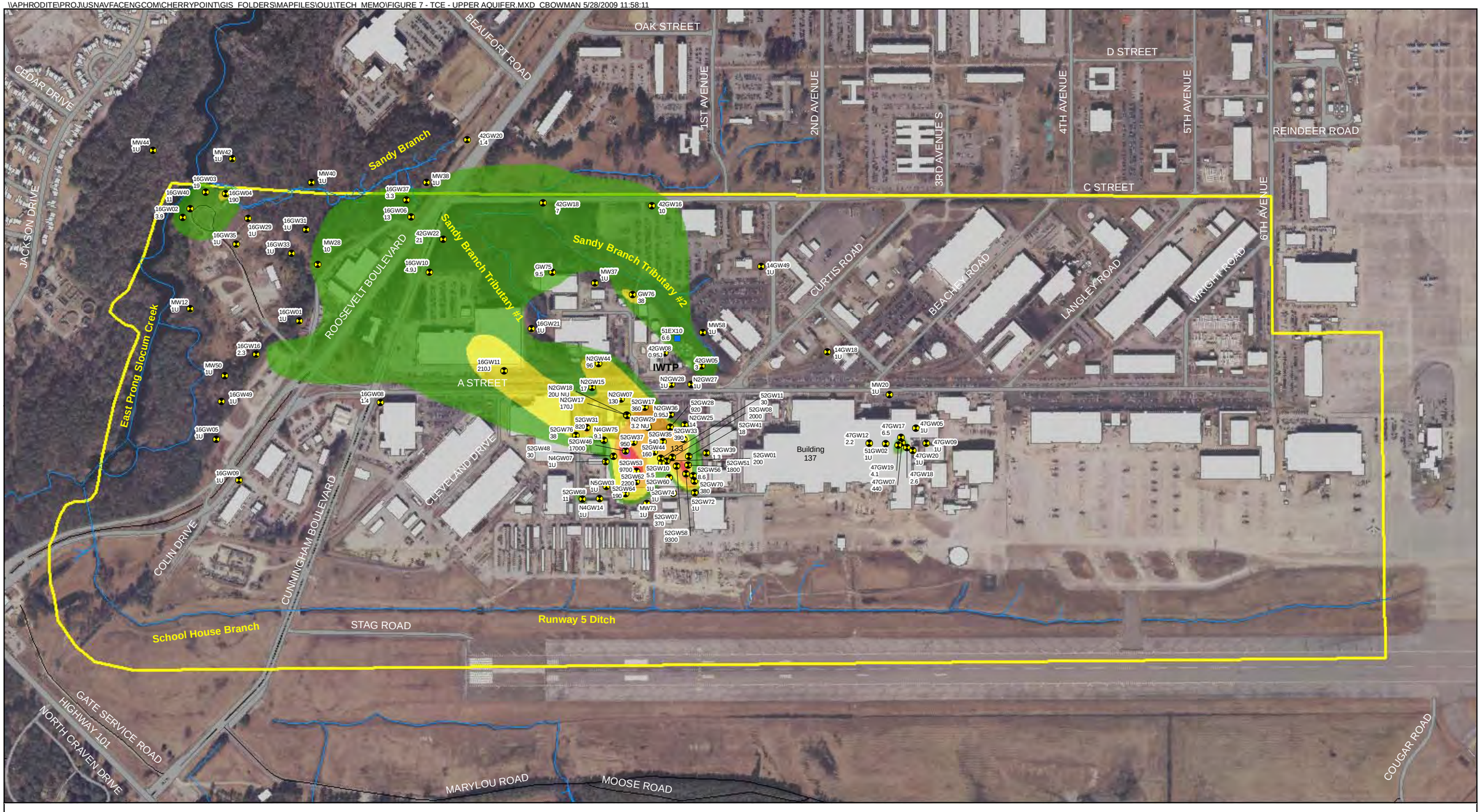
0 200 400

Feet

Figure 6
Groundwater Elevation Map
Lower Surficial Aquifer
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

CH2MHILL

\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 7 - TCE - UPPER AQUIFER.MXD CBOWMAN 5/28/2009 11:58:11



Legend

- Extraction Well
- Monitoring Well - Upper Aquifer
- Surface Water
- OU1 Boundary
- Existing Buildings
- NC2L - 10x NC2L
- 10x NC2L - 100x NC2L
- 100x NC2L - 1000x NC2L
- 1000x NC2L - 11,000 µg/L
- > 11,000 µg/L

IWTP - Industrial Wastewater Treatment Plant

Notes:
NC2L - North Carolina Groundwater Standard
NC2L = 3 µg/L (Jan 2010)
NU = Not Used
Concentrations are from the Spring 2009 sampling event
µg/L = micrograms per liter
U - analyte not detected above detection limit
J - concentration is estimated

N W E S

0 600 1,200 Feet

Figure 7
Trichloroethene (TCE) Isoconcentration Map
Upper Surficial Aquifer
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 8 - TCE - UPPER AQUIFER_ZOOM.MXD CBOWMAN 5/28/2009 11:59:04

Legend

- Extraction Well
- Monitoring Well - Upper Aquifer
- Surface Water
- OU1 Boundary
- Existing Buildings
- NC2L - 10x NC2L
- 10x NC2L - 100x NC2L
- 100x NC2L - 1000x NC2L
- 1000x NC2L - 11,000 µg/L
- > 11,000 µg/L

IWTP - Industrial Wastewater Treatment Plant

Notes:
NC2L - North Carolina Groundwater Standard
NC2L = 3 µg/L (Jan 2010)
NU = Not Used
Concentrations are from the Spring 2009 sampling event
µg/L = micrograms per liter
U - analyte not detected above detection limit
J - concentration is estimated

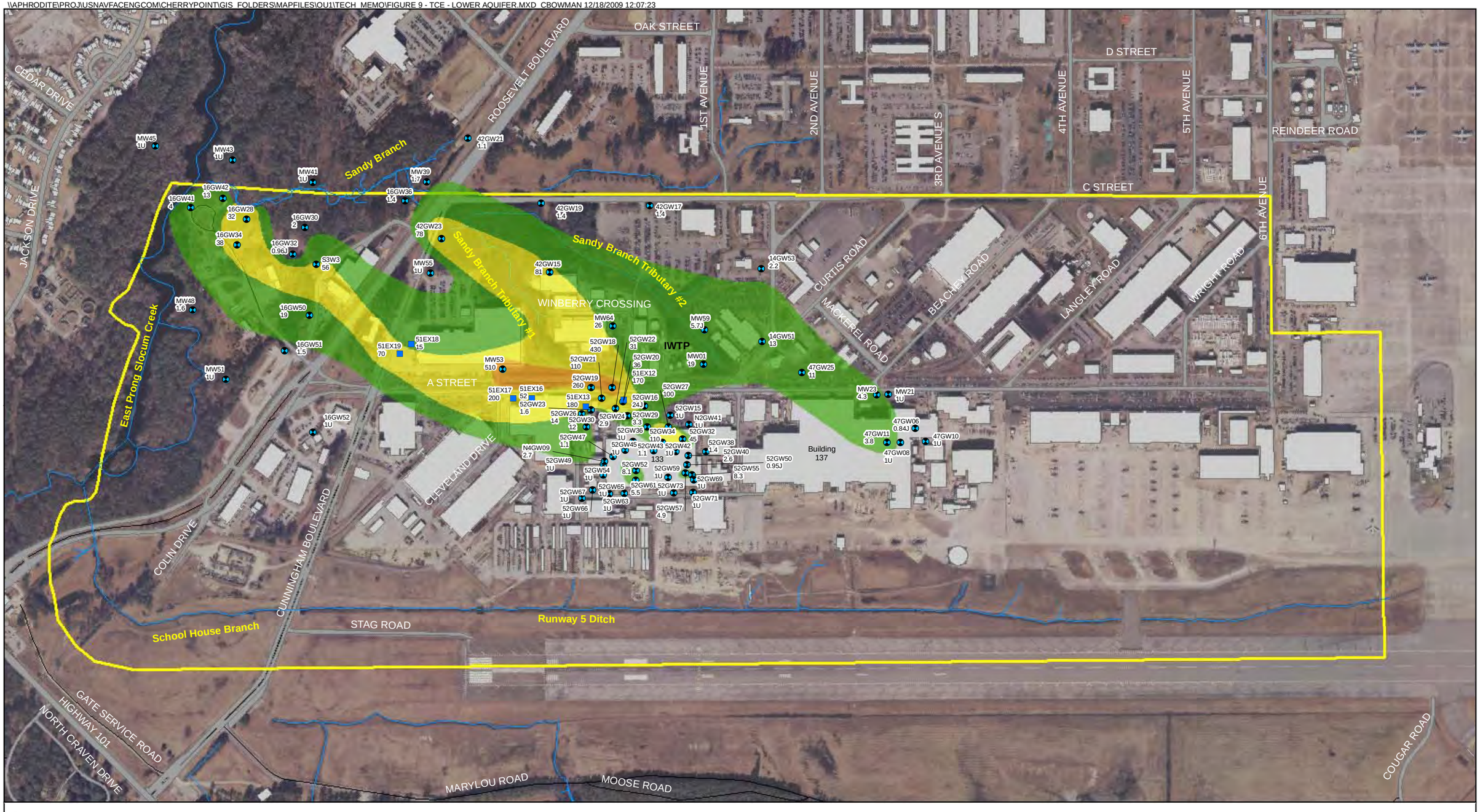
N W E S

0 180 360 Feet

Figure 8
Trichloroethene (TCE) Isoconcentration Map
Upper Surficial Aquifer
Buildings 133 and 137
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

CH2MHILL

\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 9 - TCE - LOWER AQUIFER.MXD CBOWMAN 12/18/2009 12:07:23



Legend

- Extraction Well
- Monitoring Well - Lower Aquifer
- Surface Water
- OU1 Boundary
- Existing Buildings
- NC2L - 10x NC2L
- 10x NC2L - 100x NC2L
- 100x NC2L - 1000x NC2L

Notes:
NC2L - North Carolina Groundwater Standard
NC2L = 3 µg/L (Jan 2010)
NU = Not Used
Concentrations are from Spring 2009 sampling event
µg/L = micrograms per liter
U - analyte not detected above detection limit
J - concentration is estimated

IWTP - Industrial Wastewater Treatment Plant

N W E S

0 600 1,200
Feet

Figure 9
Trichloroethene (TCE) Isoconcentration Map
Lower Surficial Aquifer
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

CH2MHILL

\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 10 - TCE - LOWER AQUIFER_ZOOM.MXD CBOWMAN 5/28/2009 12:01:47

Legend

- Extraction Well
- Monitoring Well - Lower Aquifer
- Surface Water
- NC2L - 10x NC2L
- 10x NC2L - 100x NC2L
- 100x NC2L - 1000x NC2L
- OU1 Boundary
- Existing Buildings

IWTP - Industrial Wastewater Treatment Plant

Notes:
NC2L - North Carolina Groundwater Standard
NC2L = 3 µg/L (Jan 2010)
NU = Not Used
Concentrations are from the Spring 2009 sampling event
µg/L = micrograms per liter
U - analyte not detected above detection limit
J - concentration is estimated

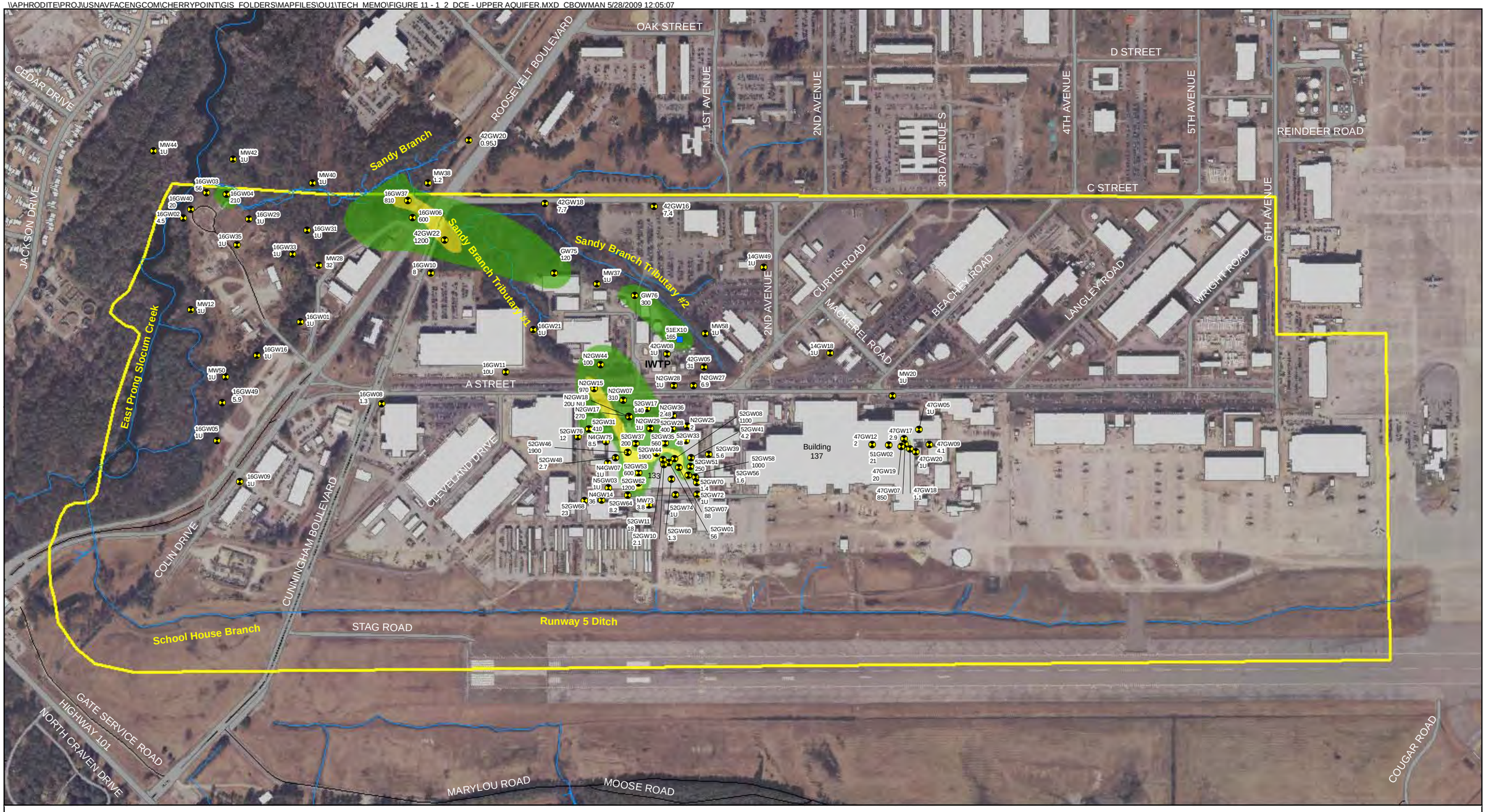
N W E S

0 180 360 Feet

Figure 10
Trichloroethene (TCE) Isoconcentration Map
Lower Surficial Aquifer
Buildings 133 and 137
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

CH2MHILL

\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 11 - 1_2_DCE - UPPER AQUIFER.MXD CBOWMAN 5/28/2009 12:05:07



Legend

- Extraction Well
- Monitoring Well
- Surface Water
- OU1 Boundary
- Existing Buildings
- NC2L - 10x NC2L
- 10x NC2L - 100x NC2L

Notes:
NC2L - North Carolina Groundwater Standard
NC2L = 70 µg/L (Jan 2010)
NU = Not Used
Concentrations are from the Spring 2009 sampling event
µg/L = micrograms per liter
U - analyte not detected above detection limit
J - concentration is estimated

IWTP - Industrial Wastewater Treatment Plant

0 600 1,200 Feet

Figure 11
1,2-dichloroethene (1,2 DCE) Isoconcentration Map
Upper Surficial Aquifer
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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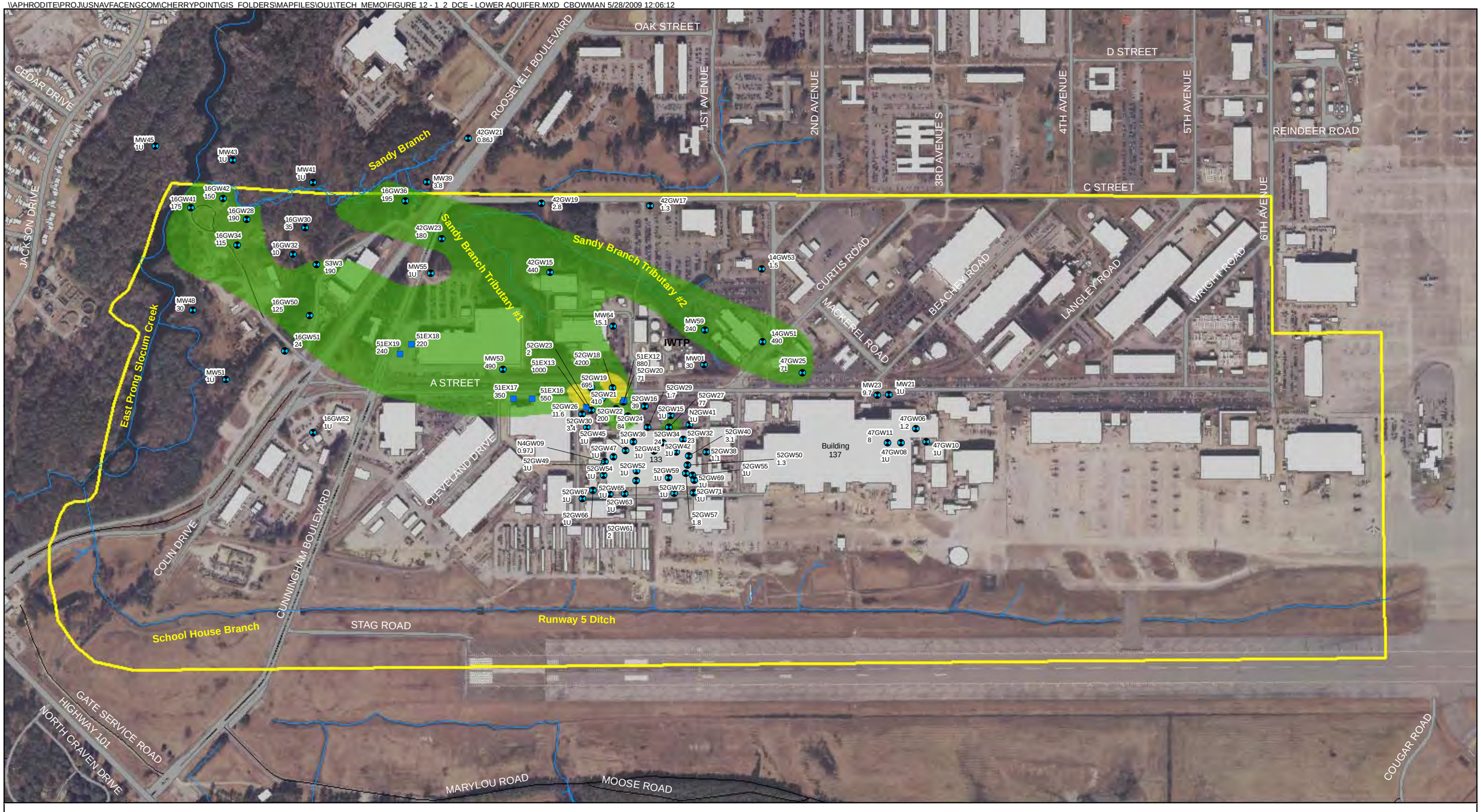
\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 12 - 1_2_DCE - LOWER AQUIFER.MXD CBOWMAN 5/28/2009 12:06:12



Legend

- Extraction Well
- Monitoring Well
- Surface Water
- OU1 Boundary
- Existing Buildings
- NC2L - 10x NC2L
- 10 NC2L - 100x NC2L

IWTP - Industrial Wastewater Treatment Plant

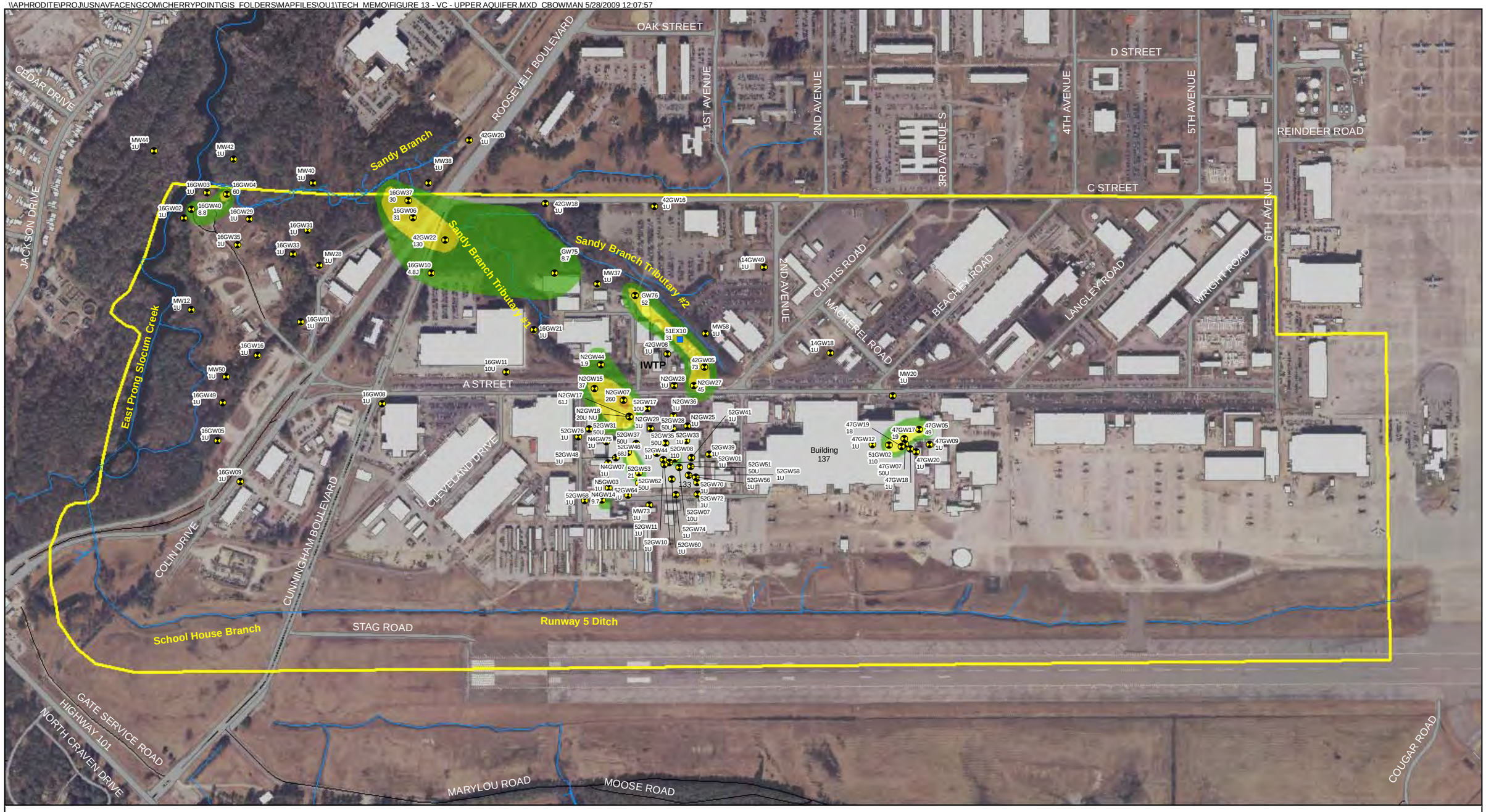
Notes:
NC2L - North Carolina Groundwater Standard
NC2L = 70 µg/L (Jan 2010)
NU = Not Used
Concentrations are from the Spring 2009 sampling event
µg/L = micrograms per liter
U - analyte not detected above detection limit
J - concentration is estimated

0 600 1,200
Feet

Figure 12
1,2-dichloroethene (1,2 DCE) Isoconcentration Map
Lower Surficial Aquifer
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

CH2MHILL

\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 13 - VC - UPPER AQUIFER.MXD CBOWMAN 5/28/2009 12:07:57



Legend

- Extraction Well
- Monitoring Well - Upper Aquifer
- Surface Water
- OU1 Boundary
- Existing Buildings
- NC2L - 1000x NC2L
- 1000x NC2L - 10,000x NC2L
- 10,000x NC2L - 100,000 NC2L

Notes:
NC2L - North Carolina Groundwater Standard
NC2L = 0.03 µg/L (Jan 2010)
NU = Not Used
Concentrations are from the Spring 2009 sampling event
µg/L = micrograms per liter
U - analyte not detected above detection limit
J - concentration is estimated

0 600 1,200 Feet

IWTP - Industrial Wastewater Treatment Plant

Figure 13
Vinyl Chloride Isoconcentration Map
Upper Surficial Aquifer
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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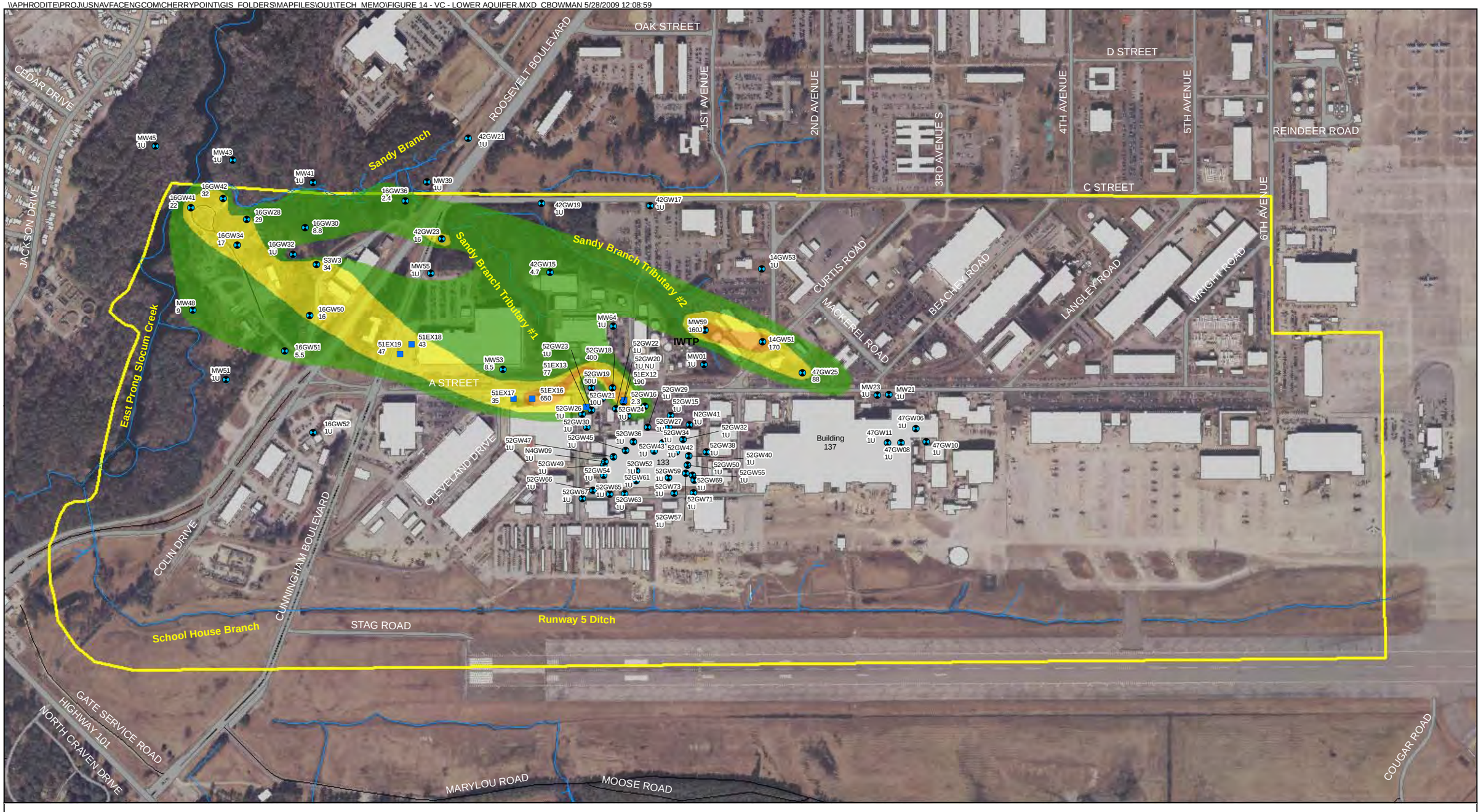
\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 14 - VC - LOWER AQUIFER.MXD CBOWMAN 5/28/2009 12:08:59



Legend

- Extraction Well
- Monitoring Well - Lower Aquifer
- Surface Water
- OU1 Boundary
- Existing Buildings
- NC2L - 1000x NC2L
- 1000x NC2L - 10,000x NC2L
- 10,000x NC2L - 100,000x NC2L

IWTP - Industrial Wastewater Treatment Plant

Notes:
NC2L - North Carolina Groundwater Standard
NC2L = 0.03 µg/L (Jan 2010)
NU = Not Used
Concentrations are from the Spring 2009 sampling event
µg/L = micrograms per liter
U - analyte not detected above detection limit
J - concentration is estimated

0 600 1,200 Feet

Figure 14
Vinyl Chloride Isoconcentration Map
Lower Surficial Aquifer
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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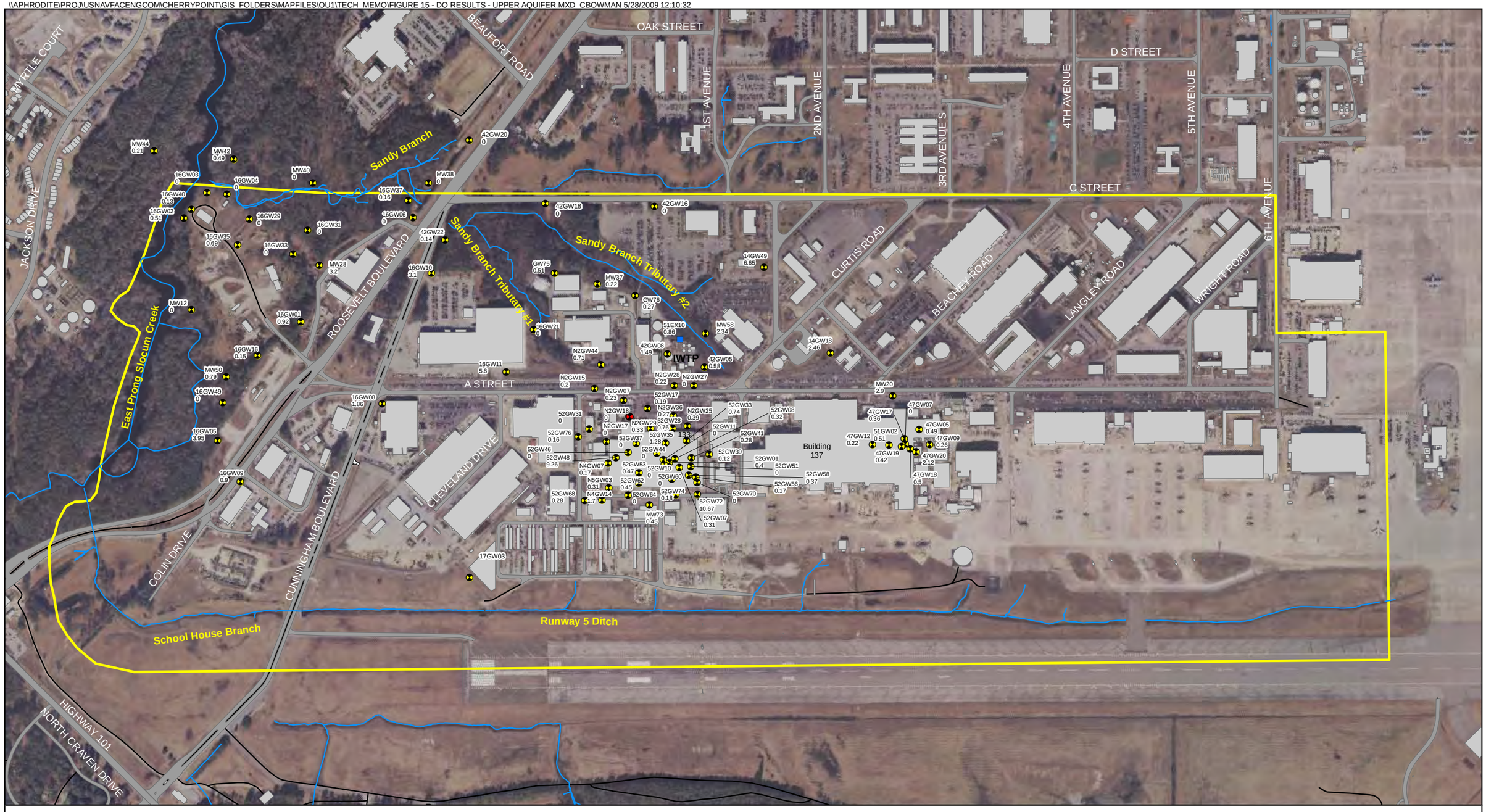
\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 15 - DO RESULTS - UPPER AQUIFER.MXD CBOWMAN 5/28/2009 12:10:32



Legend

- Extraction Well
- Free Product Monitoring Well
- Monitoring Well - Upper Aquifer
- Surface Water
- OU1 Boundary
- Existing Buildings

IWTP - Industrial Wastewater Treatment Plant

N W E S

0 600 1,200
Feet

Figure 15
Dissolved Oxygen Results
Upper Surficial Aquifer
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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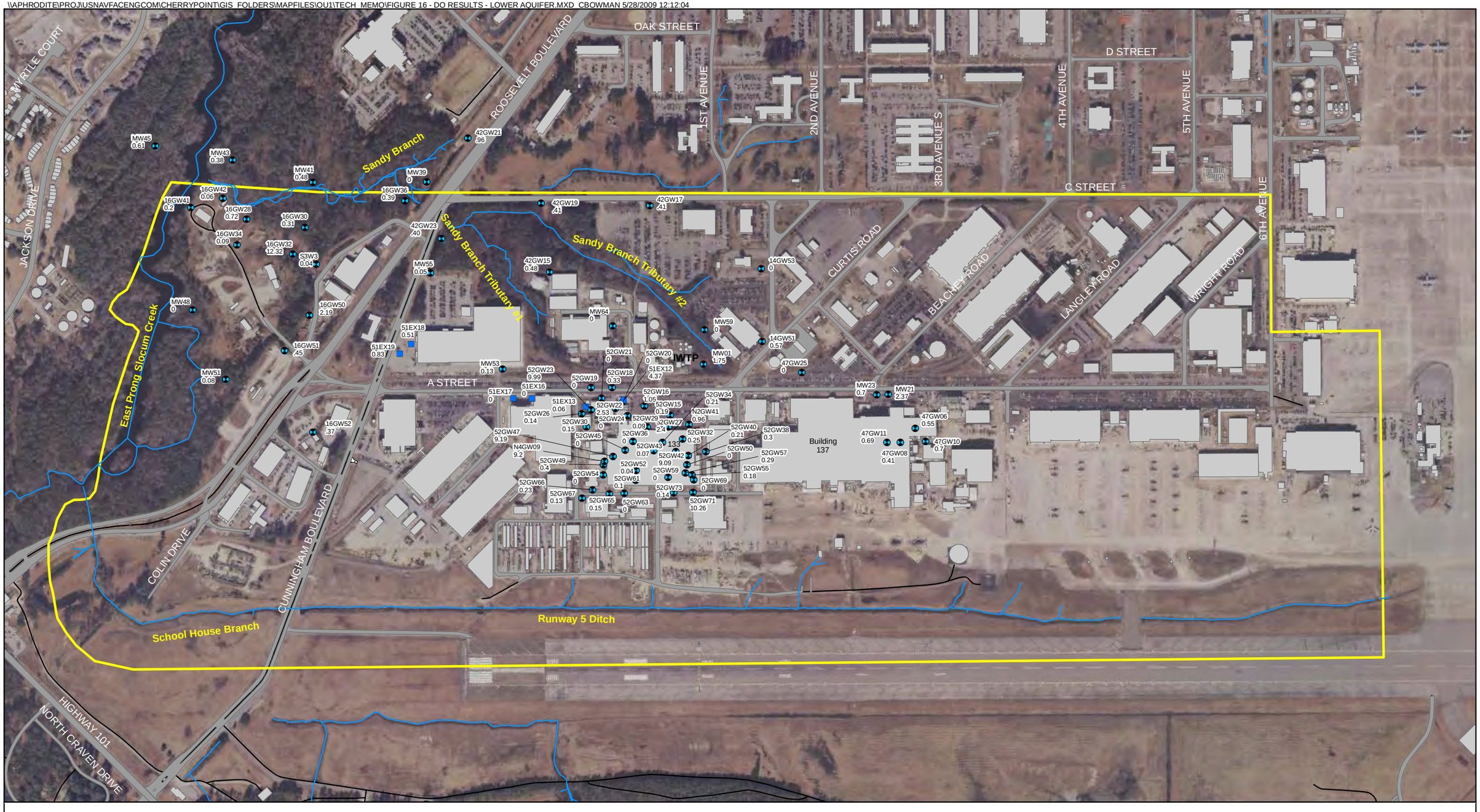
\\APHRODITE\PROJ\USNAVFACENGCOM\CHERRYPOINT\GIS_FOLDERS\MAPFILES\OU1\TECH_MEMO\FIGURE 16 - DO RESULTS - LOWER AQUIFER.MXD CBOWMAN 5/28/2009 12:12:04



Legend

- Extraction Well
- Monitoring Well - Lower Aquifer
- Surface Water
- OU1 Boundary
- Existing Buildings

IWTP - Industrial Wastewater Treatment Plant

N W E S

0 600 1,200
Feet

Figure 16
Dissolved Oxygen Results
Lower Surficial Aquifer
Marine Corps Air Station Cherry Point
Cherry Point, North Carolina

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Attachment A
Boring and Well Construction Logs

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well + Pump
Well Contractor Company Name
STREET ADDRESS Po Bx 692
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code- Phone number

2. WELL INFORMATION:
SITE WELL ID #(if applicable)
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☒
DATE DRILLED 21 APR 09
TIME COMPLETED 2100 AM ☐ PM ☒

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
146GW53
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other
(check appropriate box)
LATITUDE N 34° 89.666
LONGITUDE W 76° 89.909
May be in degrees, minutes, seconds or in a decimal format
Latitude/longitude source: ☒ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. WELL OWNER
OWNER'S NAME Navy
STREET ADDRESS PSC Bx 8006
Cherry Point NC 28533
City or Town State Zip Code
( ) -
Area code - Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 43
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)
d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____
g. **WATER ZONES** (depth):
From 0 To 43 From _____ To _____
From _____ To _____ From _____ To _____
From _____ To _____ From _____ To _____

7. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From	0 To	32 Ft.	2	Sch 40	PVC
From	To	Ft.			
From	To	Ft.			

8. GROUT:

	Depth		Material	Method
From	0 To	27 Ft.	Cement	Pumped
From	27 To	30.5 Ft.	Sur Plug	Gravity
From	To	Ft.		

9. SCREEN:

	Depth		Diameter	Slot Size	Material
From	33 To	43 Ft.	2 in.	.10 in.	PVC
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	

10. SAND/GRAVEL PACK:

	Depth		Size	Material
From	30.5 To	50 Ft.	#1	Sand
From	To	Ft.		
From	To	Ft.		

11. DRILLING LOG

From	To	Formation Description
0	10	Tan Silty Fine Sand
10	20	Orange Silty Sand
20	30	grey Orange Silty Sand
30	45	grey Shelly Med Sand
45	50	Dark Clay

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 28 APR 09

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1a
Rev. 3/07

PROJECT NUMBER	BORING NUMBER	
386383.FI.MW.MW	14GW53	SHEET 1 OF 1

SOIL BORING LOG

PROJECT : MCAS Cherry Point | DRILLING CONTRACTOR : Miller Drilling Inc. | LOCATION : Site 14

ELEVATION : 18.47 feet amsl | NORTHING: 424015.05 | EASTING: 2629877.07

DRILLING METHOD AND EQUIPMENT USED : Rotosonic 4 inch diameter cores, 6 inch overcore

WATER LEVELS : 08 ' | START : 4/21/2009 1300 | END : 4/21/2009 1420 | LOGGER : Mark Ost

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Breathing Zone Above Hole
	0-10	24"	Sonic Cutting		Construction fill	4.9ppm
10	10'-20'	120"	Sonic Cutting		Silty Sand (SM), yellow (2.5Y 7/8), dry, loose	0.0ppm
					Lean Clay (CL), gray (10YR 6/1), dry, medium dense, plastic Poorly Graded Sand (SP), gray (10YR 5/1), saturated, loose, fine grained	
20	20'-30'	60"	Sonic Cutting		Silty Sand (SM), brownish yellow (10YR 6/8), saturated, low density, some clay	0.0ppm
30	30-40'	120"	Sonic Cutting		Poorly Graded Sand (SP), gray (10YR 5/1), saturated, loose, coarse grained, some shell fragments	0.0ppm
40	40-50"	36"	Sonic Cutting		Same as above, shells and phosphate nodules	0.0ppm
					Lean Clay (CL), dark bluish gray (Gley2 4/10B), dry, medium plastic End of boring at 43 feet bgs	
50						
60						

PROJECT NUMBER	WELL NUMBER		
386383.FI.MW.MW	14GW53	SHEET 1	OF 1

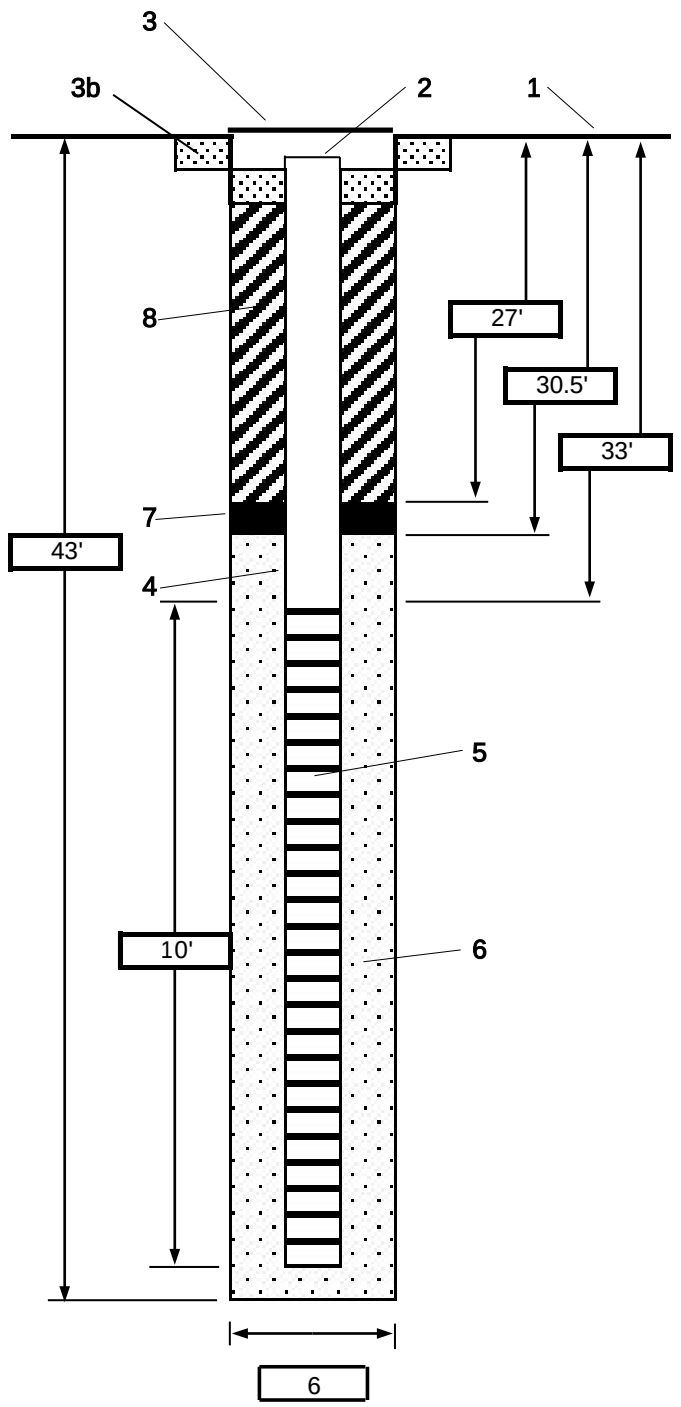
WELL COMPLETION DIAGRAM

PROJECT : CTO-208 LOCATION Cherry Point Site 14

DRILLING CONTRACTOR : Miller Drilling Inc. NORTHING: 424015.05 EASTING: 2629877.07

DRILLING METHOD AND EQUIPMENT USED : 6 inch Rotosonic

WATER LEVELS : 8.0' bgs START : 04/21/2009 1420 END :04/21/2009 15· LOGGER : Mark Ost



1- Ground elevation at well: 18.47 feet amsl

2- Top of casing elevation: 18.11 feet amsl

3- Wellhead protection cover type: Flushmount
- a) drain tube? No
- b) concrete pad dimensions: 2 ft. Square

4- Dia./type of well casing: 2" PVC Sch 40

5- Type/slot size of screen: 2" Sch 40 PVC .01 slot

6- Type screen filter: #1 Filter Sand
- a) Quantity used: 5 bags

7- Type of Seal: Shur Plug 3/8" chips
- a) Quantity used: 1/2 bag

8- Grout
- a) Grout mix used: Portland cement/Bentonite
- b) Method of placement: Tremie pipe
- c) Vol. of well casing grout:

Development method: Whale Pump

Development time: 0.50 hours

Estimated purge volume: 55 gallons

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:

Tommy Morton
Well Contractor (Individual) Name

Morton Well + Pump
Well Contractor Company Name

STREET ADDRESS Po BX 692

Morehead City NC 28557
City or Town / State / Zip Code

(252)- 342-3746
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable)

WELL CONSTRUCTION PERMIT#

OTHER ASSOCIATED PERMIT#(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ▯

DATE DRILLED 24 APR 09

TIME COMPLETED 1:00 AM ▯ PM ☒

4. WELL LOCATION:

CITY: Havelock COUNTY Craven

16 GW 49
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
▯ Slope ▯ Valley ☒ Flat ▯ Ridge ▯ Other
(check appropriate box)

LATITUDE N 34 88.844

LONGITUDE W 76 90.555

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☒ GPS ▯ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. WELL OWNER

OWNER'S NAME Navy

STREET ADDRESS PSC BX 8006

Cherry Point NC 28533
City or Town / State / Zip Code

(_____)-
Area code - Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 18'

b. **DOES WELL REPLACE EXISTING WELL?** YES ▯ NO ☒

c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST** _____

f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):

From 0	To 20	From	To
From	To	From	To
From	To	From	To

7. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From +2	To 7	Ft.	2	Sch 40	PVC
From	To	Ft.			
From	To	Ft.			

8. GROUT:

	Depth		Material	Method
From 0	To 6	Ft.	Sucplug	Gravity
From	To	Ft.		
From	To	Ft.		

9. SCREEN:

	Depth		Diameter		Slot Size		Material
From 8	To 18	Ft.	2	in.	.10	in.	PVC
From	To	Ft.		in.		in.	
From	To	Ft.		in.		in.	

10. SAND/GRAVEL PACK:

	Depth		Size	Material
From 6	To 20	Ft.	#1	Sand
From	To	Ft.		
From	To	Ft.		

11. DRILLING LOG

From	To	Formation Description
0	10	Dirt Soil
10	20	Grey silty sand fine

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 28 APR 09

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1a
Rev. 3/07

PROJECT NUMBER	WELL NUMBER	
368383.FI.MW.MW	16GW49	SHEET 1 OF 1

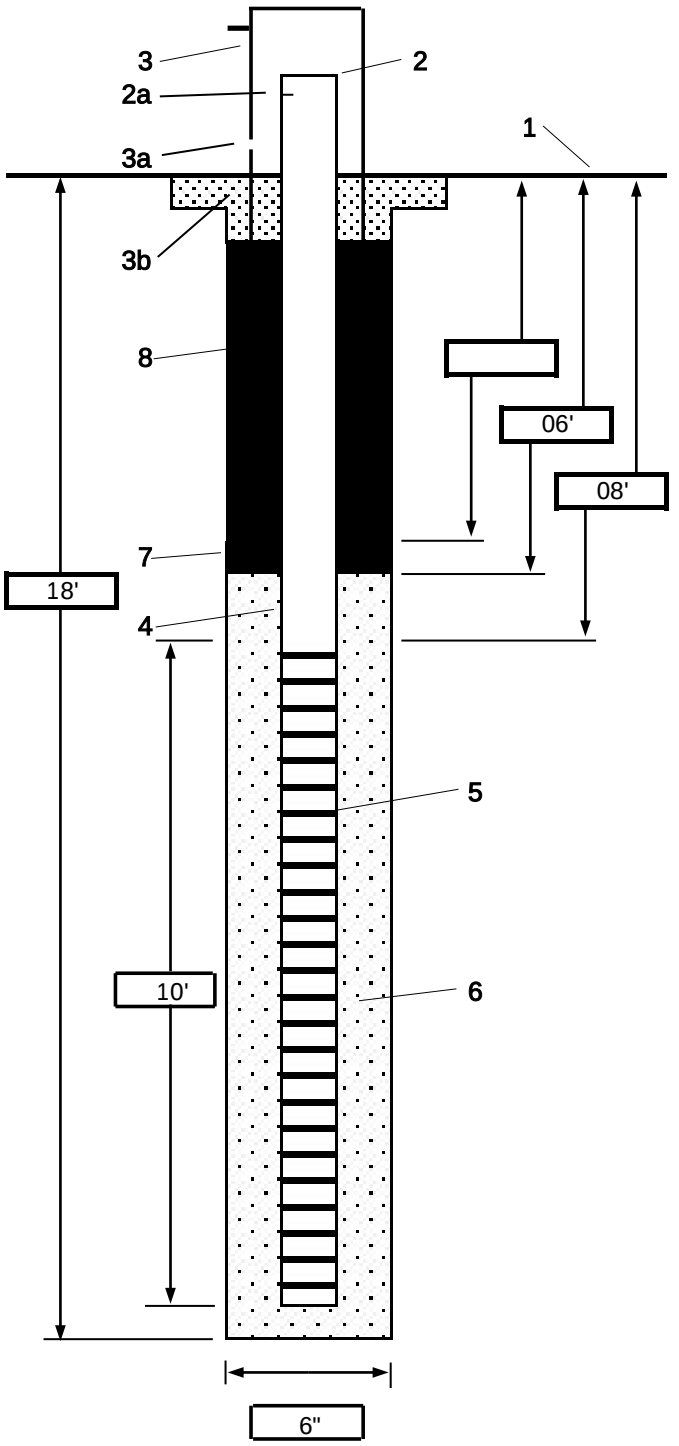
WELL COMPLETION DIAGRAM

PROJECT : MCAS Cherry Point CTO-208 LOCATION : Cherry Point Site 16

DRILLING CONTRACTOR : Miller Drilling Inc. Northings: 420939.06 Eastings: 2628045.21

DRILLING METHOD AND EQUIPMENT USED : 6' rotosonic

WATER LEVELS : 4' START : 04/24/2009 1238 END : 04/24/2009 13 LOGGER : Mark Ost



1- Ground elevation at well: 3.81 feet amsl

2- Top of casing elevation: 6.11 feet amsl
a) vent hole? No

3- Wellhead protection cover type: Stick-up
a) Bollards: Four bollards
b) concrete pad dimensions: 2' x 2' concrete pad

4- Dia./type of well casing: 2" Sch 40 PVC

5- Type/slot size of screen: 2" PVC Sch 40 10 slot

6- Type screen filter: #1 silica pack
a) Quantity used: 3,50# bags

7- Type of seal: Bentonite 3/8" chips
a) Quantity used: 1, 50# bag

8- Grout
a) Grout mix used: No grout used. Bentonite to surface
b) Method of placement
c) Vol. of well casing grout

Development method: Whale Pump

Development time: 0.5 hours

Estimated purge volume: 55 gal.

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well + Pump
Well Contractor Company Name
STREET ADDRESS PO Bx 692
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code- Phone number

2. WELL INFORMATION:
SITE WELL ID #(if applicable)
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ▯
DATE DRILLED Apr 22 09
TIME COMPLETED 10:00 AM ▯ PM ▯

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
166 GW150
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING:
▯ Slope ▯ Valley ✓ Flat ▯ Ridge ▯ Other
(check appropriate box)
LATITUDE 34 N 53.436
LONGITUDE W 76 54.324
May be in degrees, minutes, seconds or in a decimal format
Latitude/longitude source: ✓ GPS ▯ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. WELL OWNER
OWNER'S NAME Navy
STREET ADDRESS PSC Bx 8006
Cherry Point NC 28533
City or Town State Zip Code
( ) -
Area code - Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 50
b. **DOES WELL REPLACE EXISTING WELL?** YES ▯ NO ✓
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)
d. **TOP OF CASING IS** 2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____

f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):
From 0 To 50 From _____ To _____
From _____ To _____ From _____ To _____
From _____ To _____ From _____ To _____

7. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From 2	To 39	Ft.	2	Sch 40	PVC
From	To	Ft.			
From	To	Ft.			

8. GROUT:

	Depth		Material	Method
From 0	To 35	Ft.	Cement	Pumped
From 35	To 37	Ft.	Surplug	Gravity
From	To	Ft.		

9. SCREEN:

	Depth		Diameter	Slot Size	Material
From 40	To 50	Ft.	2 in.	.10 in.	PVC
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth			Size	Material
From 37	To 50	Ft.	#1	Sand
From	To	Ft.		
From	To	Ft.		

11. DRILLING LOG

From	To	Formation Description
0	10	Gravel fine Sand
10	20	Tan Silty Sand
20	30	Tan Sand Coarse
30	40	Tan, Coarse Sand
40	50	Light Larry Coarse Sand

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[signature] 28 APR 09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 3/07

CH2MHILL	**PROJECT NUMBER** **386383.FI.MW.MW**	**BORING NUMBER** **16GW50** SHEET 1 OF 1
	SOIL BORING LOG	

PROJECT : MCAS Cherry Point | DRILLING CONTRACTOR : Miller Drilling, Inc. | LOCATION : Site 16

ELEVATION : 21.94 feet asml | NORTHING: 421730.74 | EASTING: 2628050.21

DRILLING METHOD AND EQUIPMENT USED : Rotosonic 4 inch diameter cores, 6 inch overcore

WATER LEVELS : 08 ' | START : 4/24/2009 0914 | END : 4/24/2009 1238 | LOGGER : Mark Ost

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY,	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION, OVM (ppm): Breathing Zone Above Hole
	0-10	0"	Sonic Cutting		no recovery	0.0 ppm
10	10'-20'	12"	Sonic Cutting		Poorly Graded Sand (SP), yellowish brown (10YR 6/6), dry	0.0ppm
20	20'-30'	48"	Sonic Cutting		Same as above	18.0ppm
30	30-40'	120"	Sonic Cutting		Poorly Graded Sand (SP), pale yellow brown (10YR 8/4), saturated, medium grained sand	19.0ppm
40	40-50"	120"	Sonic Cutting		Same as above, gray (10YR 5/1)	0.0ppm
50					End of boring at 50 feet bgs	
60						

PROJECT NUMBER	WELL NUMBER	
368383.FI.MW.MW	16GW50	SHEET 1 OF 1

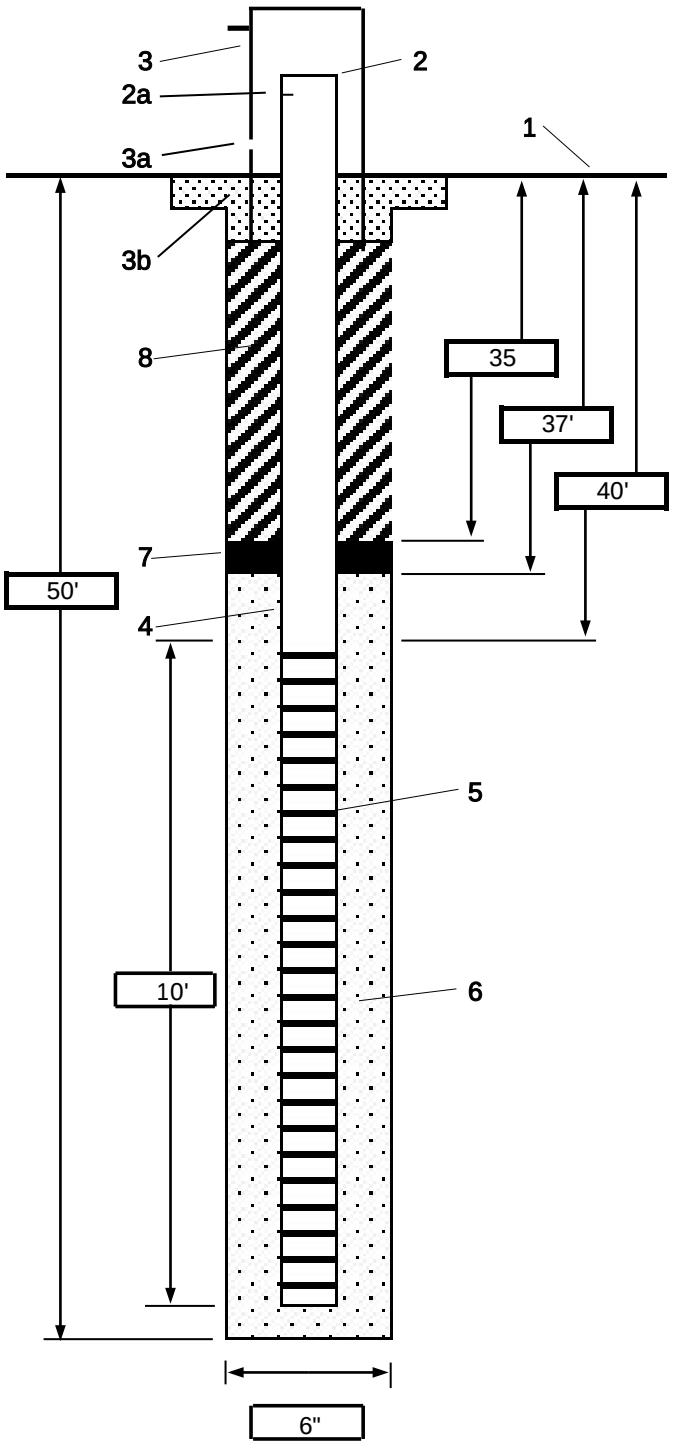
WELL COMPLETION DIAGRAM

PROJECT : MCAS Cherry Point CTO-208 LOCATION : Cherry Point Site 16

DRILLING CONTRACTOR : Miller Drilling Inc. Northing: 421730.74 Easting: 2628050.21

DRILLING METHOD AND EQUIPMENT USED : 6' rotosonic

WATER LEVELS : 4' START : 04/24/2009 1028 END : 04/24/2009 11 LOGGER : Mark Ost



1- Ground elevation at well: 21.94 feet amsl

2- Top of casing elevation: 24.41 feet amsl
a) vent hole?: No

3- Wellhead protection cover type: Stick-up
a) Bollards: Four bollards
b) concrete pad dimensions: 2' x 2' concrete pad

4- Dia./type of well casing: 2" Sch 40 PVC

5- Type/slot size of screen: 2" PVC Sch 40 10 slot

6- Type screen filter: #1 silica pack
a) Quantity used: 3,50# bags

7- Type of seal: Bentonite 3/8" chips
a) Quantity used: 1/2, 50# bag

8- Grout
a) Grout mix used: Portland Cement, Bentonite grout
b) Method of placement: Tremie Pipe
c) Vol. of well casing grout:

Development method: Whale Pump

Development time: 0.5 hours

Estimated purge volume: 55 gal.

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well + Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED 21 APR 09
TIME COMPLETED 10:00 AM ☑ PM ☐

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
166W51
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☑Flat ☐Ridge ☐Other
LATITUDE 36 34.53.390 " DMS OR 3x.xxxxxxxxx DD
LONGITUDE 75 76.54.317 " DMS OR 7x.xxxxxxxxx DD
Latitude/longitude source: ☑GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
PSC Bx 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 50'
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" If Above Top of Casing)
d. **TOP OF CASING IS** 2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):
Top 0 Bottom 50 Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 2	Bottom 39 Ft.	2	Sch 40	PVC
Top _____	Bottom _____ Ft.			
Top _____	Bottom _____ Ft.			

8. GROUT:

Depth		Material	Method
Top 0	Bottom 34.5 Ft.	Cement	Pumped
Top 34.5	Bottom 38 Ft.	Surplug	Gravity
Top _____	Bottom _____ Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 40	Bottom 50 Ft.	2 in.	.10 in.	PVC
Top _____	Bottom _____ Ft.	_____ in.	_____ in.	
Top _____	Bottom _____ Ft.	_____ in.	_____ in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 38	Bottom 50 Ft.	#1	Sand
Top _____	Bottom _____ Ft.		
Top _____	Bottom _____ Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	10	Tan Silty Sand
10	20	Tan Silty Sand
20	30	Light grey orange Silty Sands
30	40	light grey Med Sand
40	50	dark grey Med Sand

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 28 APR 09

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 1/08

PROJECT NUMBER	BORING NUMBER	
386383.FI.MW.MW	16GW51	SHEET 1 OF 1

SOIL BORING LOG

PROJECT : MCAS Cherry Point | DRILLING CONTRACTOR : Miller Drilling, Inc. | LOCATION : Site 16

ELEVATION : 24.30 feet amsl | NORTHING: 421454.56 | EASTING: 2628102.14

DRILLING METHOD AND EQUIPMENT USED : Rotosonic 4 inch diameter cores, 6 inch overcore

WATER LEVELS : 08 ' | START : 4/21/2009 0815 | END : 4/21/2009 1010 | LOGGER : Mark Ost

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Breathing Zone Above Hole
	0-10	0"	Sonic Cutting		No recovery	0ppm
10	10'-20'	120"	Sonic Cutting		Silty Sand (SM), gray (10YR 6/1), saturated, medium grained. dense	320.0ppm, hydrocarbon odor
					Lean Clay (CL), yellowish brown (10YR/5/4), dry, dense Poorly Graded Sand (SP), white (10YR 8/1), saturated, loose	
20	20'-30'	60"	Sonic Cutting		Poorly Graded Sand (SP), very pale brown (10YR 7/4), saturated, loose, iron stain	5.0ppm, no odor
30	30-40'	120"	Sonic Cutting		Poorly Graded Sand (SP), brownish yellow (10YR 6/6), saturated, loose	10.07ppm
40	40-50'	120"	Sonic Cutting		Poorly Graded Sand (SP), gray (10YR 5/1), saturated, loose, some shell fragments	5.2ppm
50					End of boring at 50 feet bgs	
60						

PROJECT NUMBER	WELL NUMBER	
368383.FI.MW.MW	16GW51	SHEET 1 OF 1

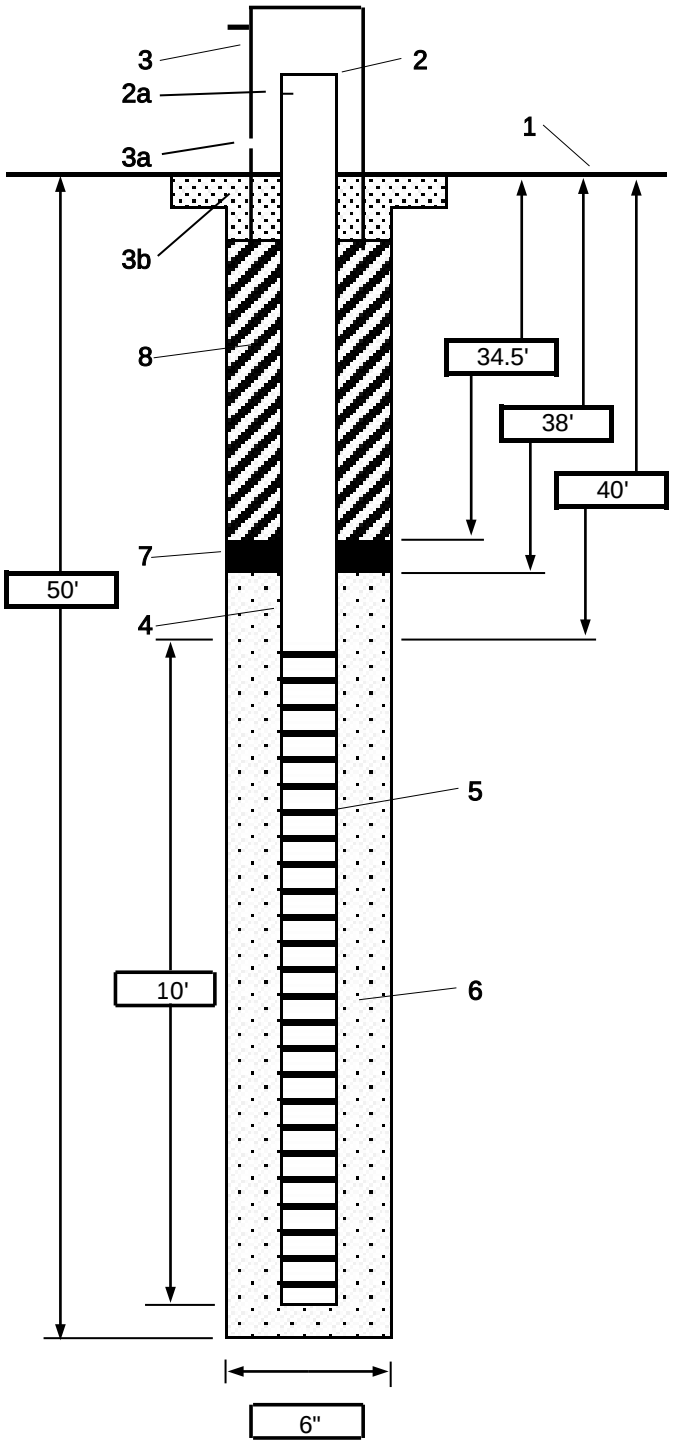
WELL COMPLETION DIAGRAM

PROJECT : MCAS Cherry Point CTO-208 LOCATION : Cherry Point Site 16

DRILLING CONTRACTOR : Miller Drilling Inc. Northing: 421454.56 Easting: 2628102.14

DRILLING METHOD AND EQUIPMENT USED : 6' rotosonic

WATER LEVELS : 4' START : 04/21/2009 1010 END : 04/19/2009 13 LOGGER : Mark Ost



1- Ground elevation at well: 24.30 feet amsl

2- Top of casing elevation: 26.73 feet amsl
a) vent hole?: No

3- Wellhead protection cover type: Stick-up
a) Bollards: Four bollards
b) concrete pad dimensions: 2' x 2' concrete pad

4- Dia./type of well casing: 2" Sch 40 PVC

5- Type/slot size of screen: 2" PVC Sch 40 10 slot

6- Type screen filter: #1 silica pack
a) Quantity used: 2,50# bags

7- Type of seal: Bentonite 3/8" chips
a) Quantity used: 1/3, 50# bag

8- Grout
a) Grout mix used: Portland Cement, Bentonite grout
b) Method of placement: tremie pipe
c) Vol. of well casing grout:

Development method: Whale Pump

Development time: 0.5 hours

Estimated purge volume: 55 gal.

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well + Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED Apr 20 09
TIME COMPLETED 10:00 AM ☑ PM ☐

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
16 GW52
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other
LATITUDE 36 34·88·916 " DMS OR 3x.xxxxxxxxx DD
LONGITUDE 75 76·90·371 " DMS OR 7x.xxxxxxxxx DD
Latitude/longitude source: ☑ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
PSC Bx 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 45
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)
d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):
Top 0 Bottom 50 Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:

Depth			Diameter	Thickness/ Weight	Material
Top 0	Bottom 34	Ft.	2	Sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:

Depth			Material	Method
Top 0	Bottom 31	Ft.	Cement	Pumped
Top 31	Bottom 33	Ft.	Surplug	Gravity
Top	Bottom	Ft.		

9. SCREEN:

Depth			Diameter	Slot Size	Material
Top 35	Bottom 45	Ft.	2 in.	.10 in.	PVC
Top	Bottom	Ft.	in.	in.	
Top	Bottom	Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth			Size	Material
Top 33	Bottom 50	Ft.	#1	Sand
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	10	Rock Fill
10	15	Sandy Silty Sand
15	20	Grey Clay
20	30	light grey Silty Sand
30	40	Orange Silty Sands
40	50	light grey Med Sand

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

T Morton — 28 APR 09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 2/09

CH2MHILL	**PROJECT NUMBER** **386383.FI.MW.MW**	**BORING NUMBER** **16GW52** SHEET 1 OF 1
	SOIL BORING LOG	

PROJECT : MCAS Cherry Point | DRILLING CONTRACTOR : Miller Drilling Inc. | LOCATION : Site 16

ELEVATION : 23.11 | NORTHING: 421217.68 | EASTING: 2628603.83

DRILLING METHOD AND EQUIPMENT USED : Rotosonic 4 inch diameter cores, 6 inch overcore

WATER LEVELS : 08 ' | START : 4/20/2009 0830 | END : 4/19/2009 1130 | LOGGER : Mark Ost

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Breathing Zone Above Hole
	0-10	12"	Sonic Cutting		Construction fill	0ppm
10	10'-20'	120"	Sonic Cutting		Silty Sand (SM), gray (2.5Y 6/1), saturated, loose Lean Clay (CL), gray (2.5Y 6/1), saturated, low density Silty Sand (SM), gray (2.5Y 6/1), saturated, low density, some clay	5.7ppm
20	20'-30'	120"	Sonic Cutting		Poorly Graded Sand (SP), gray (2.5Y 6/1), saturated, loose Same as above, pale yellow (2.5Y 7/4) Same as above, gray (2.5Y 6/1) Same as above, olive yellow (2.5Y 6/8), trace clay in lower section	9.0ppm
30	30-40'	60"	Sonic Cutting		Same as above, light gray (10YR 7/2), fine grained Same as above, brownish yellow (10YR 6/6), iron stain Same as above, coarse grained, shell fragmants	0.0ppm
40	40-50"	60"	Sonic Cutting		Same as above gray (10YR 5/1), some shell fragments End of boring at 45 feet bgs	0.0ppm
50						
60						

PROJECT NUMBER	WELL NUMBER		
386383.FI.MW.MW	16GW52	SHEET 1	OF 1

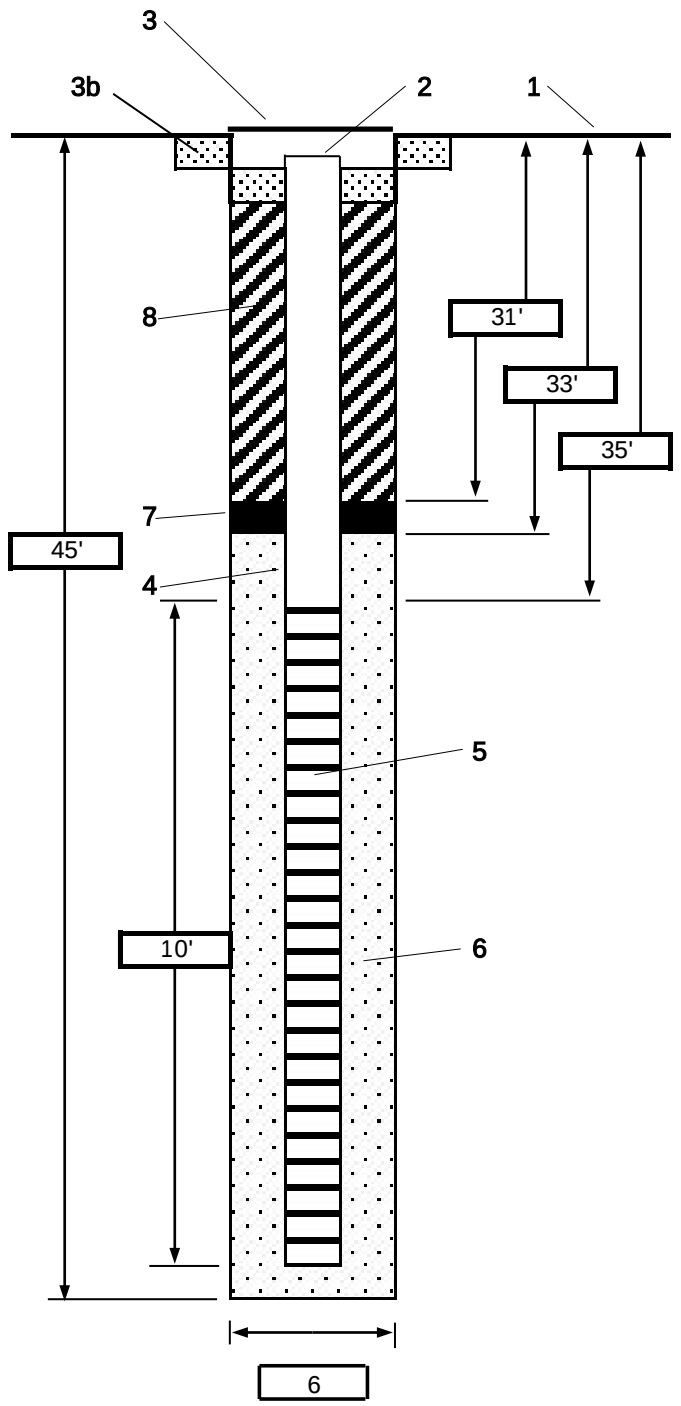
WELL COMPLETION DIAGRAM

PROJECT : CTO-208 LOCATION Cherry Point Site 16

DRILLING CONTRACTOR : Miller Drilling Inc. NORTHING: 421217.68 EASTING: 2628603.83

DRILLING METHOD AND EQUIPMENT USED : 6 inch Rotosonic

WATER LEVELS : 8.0' bgs START : 04/20/2009 1130 END :04/20/2009 14: LOGGER : Mark Ost



1- Ground elevation at well: 23.11 feet amsl

2- Top of casing elevation: 22.77 feet amsl

3- Wellhead protection cover type: Flushmount
a) drain tube? No
b) concrete pad dimensions 2 ft. Square

4- Dia./type of well casing: 2" PVC Sch 40

5- Type/slot size of screen: 2" Sch 40 PVC .01 slot

6- Type screen filter: #1 Filter Sand
a) Quantity used 4 bags

7- Type of Seal: Shur Plug 3/8" chips
a) Quantity used 1/2 bag

8- Grout
a) Grout mix used: Portland cement/Bentonite
b) Method of placement: Tremie pipe
c) Vol. of well casing grout

Development method: Whale Pump

Development time: 0.50 hours

Estimated purge volume: 55 gallons

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well + Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED 17 APR 09
TIME COMPLETED 3:00 AM ☐ PM ☑

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
176W03
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other
LATITUDE 36 34.53.342 " DMS OR 3x.xxxxxxxx DD
LONGITUDE 75 76.53.938 " DMS OR 7x.xxxxxxxx DD
Latitude/longitude source: ☒ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
PSC Bx 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 18'
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" If Above Top of Casing)
d. **TOP OF CASING IS** 2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):

Top 0	Bottom 20	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

	Depth		Diameter	Thickness/ Weight	Material
Top +2	Bottom 8	Ft.	2"	Sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:

	Depth		Material	Method
Top 0	Bottom 6	Ft.	Surplvg	gravity
Top	Bottom	Ft.		
Top	Bottom	Ft.		

9. SCREEN:

	Depth		Diameter		Slot Size		Material
Top 8	Bottom 18	Ft.	2	in.	.10	in.	PVC
Top	Bottom	Ft.		in.		In.	
Top	Bottom	Ft.		In.		in.	

10. SAND/GRAVEL PACK:

	Depth		Size	Material
Top 6	Bottom 20	Ft.	#1	Sand
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	10	Tan Silty Sand
10	15	Tan Silty Sand
15	20	Light Grey Sandy Clay

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

T Morton — 28 APR 09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 2/09

	PROJECT NUMBER	BORING NUMBER	
CH2MHILL	386383.FI.MW.MW	17GW03	SHEET 1 OF 1

SOIL BORING LOG

PROJECT : MCAS Cherry Point | DRILLING CONTRACTOR : Miller Drilling Inc. | LOCATION : Site 17

ELEVATION : 16.33 feet amsl | NORTHING: 421279.21 | EASTING: 2629956.41

DRILLING METHOD AND EQUIPMENT USED : Rotosonic 4 inch diameter cores, 6 inch overcore

WATER LEVELS : 08 ' | START : 4/17/2009 1535 | END : 4/17/2009 1613 | LOGGER : Mark Ost

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Breathing Zone Above Hole
	0-10	0"	Sonic Cutting		No recovery	0ppm
10	10'-20'	120"	Sonic Cutting		Silty Sand (SM), very pale brown (10YR 7/3), saturated, loose	0ppm
					Silty Sand (SM), very dark bluish gray (Gley 2 4/5PB), loose	0ppm
20	20'-30'				End of boring at 20 feet bgs	
30						
40						
50						
60						

PROJECT NUMBER	WELL NUMBER	
368383.FI.MW.MW	17GW03	SHEET 1 OF 1

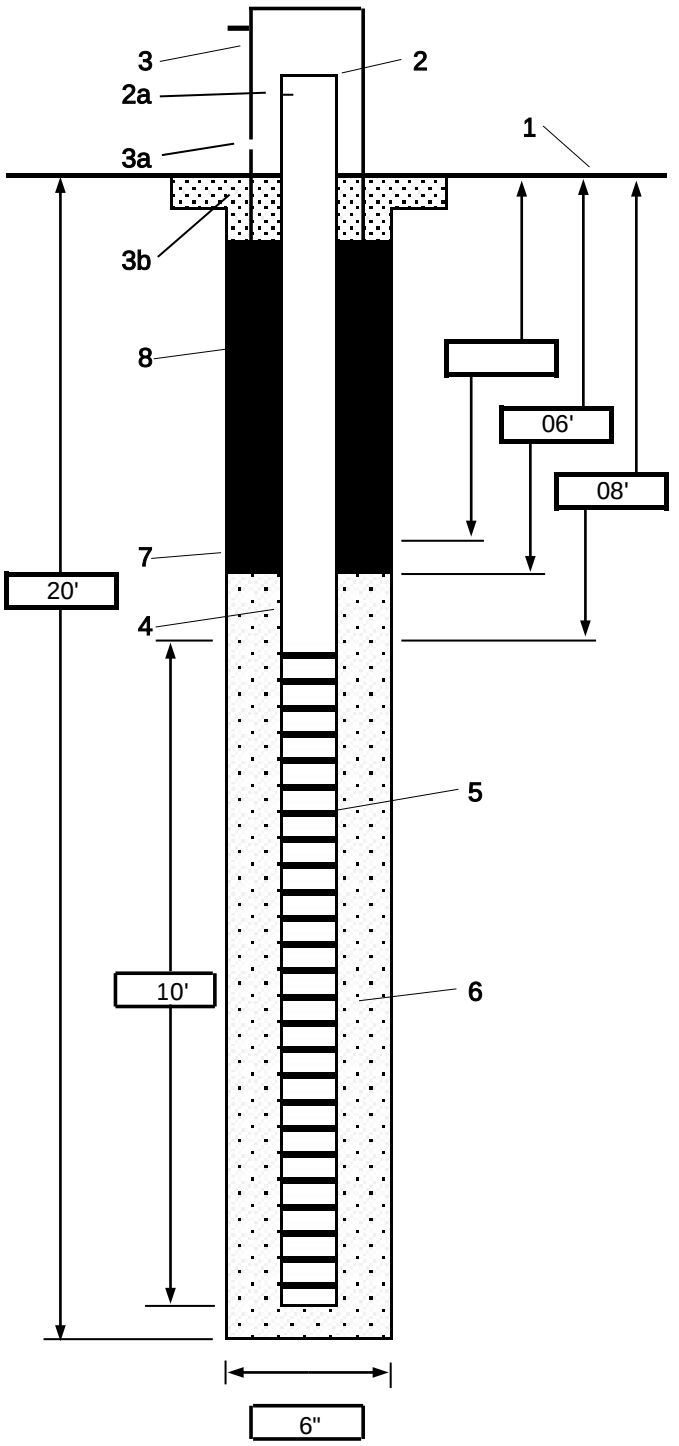
WELL COMPLETION DIAGRAM

PROJECT : MCAS Cherry Point CTO-208 LOCATION : Cherry Point Site 17

DRILLING CONTRACTOR : Miller Drilling Inc. Northing: 421279.21 Easting: 2629956.41

DRILLING METHOD AND EQUIPMENT USED : 6' rotosonic

WATER LEVELS : 4' START : 04/17/2009 1613 END : 04/17/2009 16 LOGGER : Mark Ost



1- Ground elevation at well: 16.33 feet amsl

2- Top of casing elevation: 19.15 feet amsl
a) vent hole? No

3- Wellhead protection cover type: Stick-up
a) Bollards: Four bollards
b) concrete pad dimensions: 2' x 2' concrete pad

4- Dia./type of well casing: 2" Sch 40 PVC

5- Type/slot size of screen: 2" PVC Sch 40 10 slot

6- Type screen filter: #1 silica pack
a) Quantity used: 1 1/2,50# bags

7- Type of seal: Bentonite 3/8" chips
a) Quantity used: 1/2, 50# bag

8- Grout
a) Grout mix used: No Grout. Bentonite to surface
b) Method of placement
c) Vol. of well casing grout

Development method: Whale Pump

Development time: 0.5 hours

Estimated purge volume: 55 gal.

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well & Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED Apr 16 09
TIME COMPLETED 10:00 AM ☑ PM ☐

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
426 W16
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☑Flat ☐Ridge ☐Other
LATITUDE 36 34 . 89.604 " DMS OR 3x.xxxxxxxx DD
LONGITUDE 75 77 . 90.190 " DMS OR 7x.xxxxxxxx DD
Latitude/longitude source: ☑GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
Psc Bx 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 30'
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)
d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):
Top 0 Bottom 30 Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:

Depth	Diameter	Thickness/ Weight	Material
Top 0 Bottom 20 Ft.	2"	Sch 40	PVC
Top _____ Bottom _____ Ft.			
Top _____ Bottom _____ Ft.			

8. GROUT:

Depth	Material	Method
Top 0 Bottom 14 Ft.	Cement	Pumped
Top 14 Bottom 17 Ft.	Surplug	Gravity
Top _____ Bottom _____ Ft.		

9. SCREEN:

Depth	Diameter	Slot Size	Material
Top 20 Bottom 30 Ft.	2 in.	.10 in.	PVC
Top _____ Bottom _____ Ft.	_____ in.	_____ in.	
Top _____ Bottom _____ Ft.	_____ in.	_____ in.	

10. SAND/GRAVEL PACK:

Depth	Size	Material
Top 17 Bottom 30 Ft.	#1	Sand
Top _____ Bottom _____ Ft.		
Top _____ Bottom _____ Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	10	Tan Silty Sand
10	15	Tan Silty Sand
15	20	Grey Med Sand
20	30	Grey Med Sand

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 28 APR 09

Harry Huyton
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 1/08

PROJECT NUMBER	WELL NUMBER		
386383.FI.MW.MW	42GW16	SHEET 1	OF 1

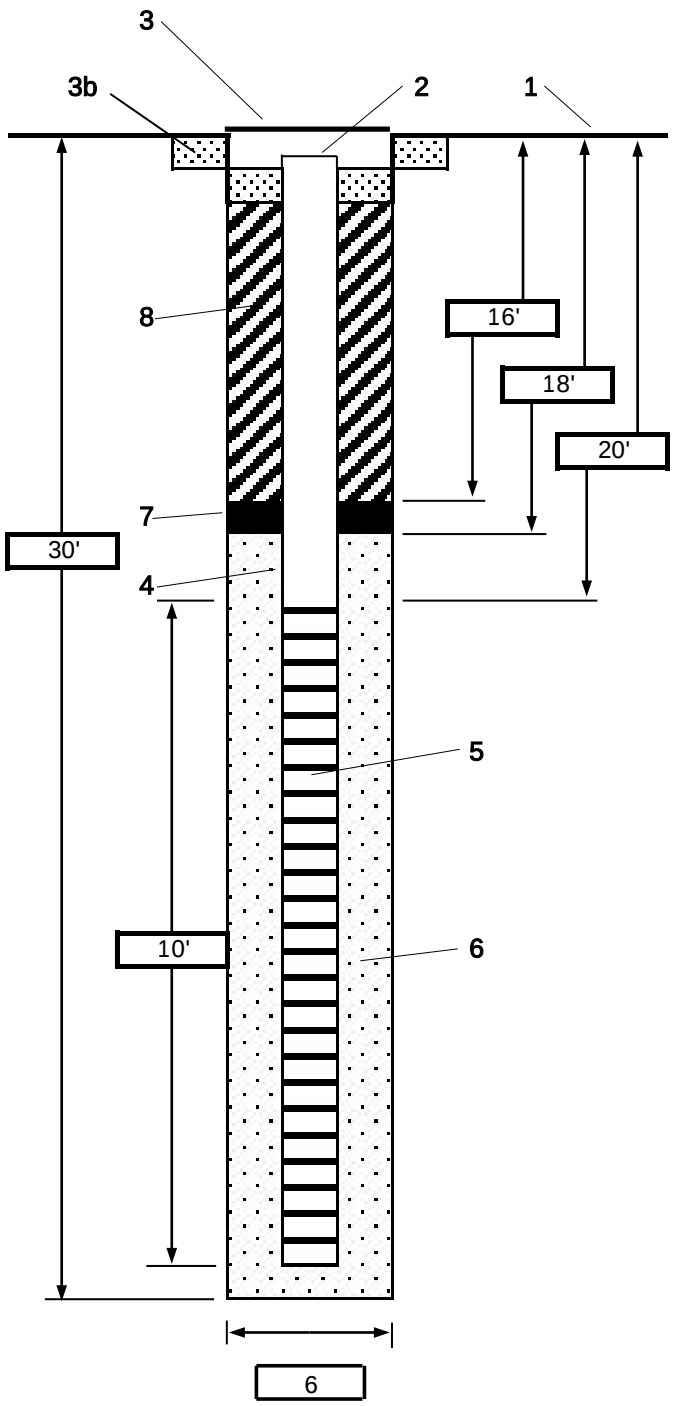
WELL COMPLETION DIAGRAM

PROJECT : CTO-208 LOCATION Cherry Point Site 42

DRILLING CONTRACTOR : Miller Drilling Inc. NORTHING: 423793.86 EASTING:2629092.31

DRILLING METHOD AND EQUIPMENT USED : 6 inch Rotosonic

WATER LEVELS : 8.0' bgs START : 04/16/2009 0938 END :04/16/2009 10 LOGGER : Mark Ost



1- Ground elevation at well: 13.25 feet amsl

2- Top of casing elevation: 12.89 feet amsl

3- Wellhead protection cover type: Flushmount
a) drain tube? No
b) concrete pad dimensions 2 ft. Square

4- Dia./type of well casing: 2" PVC Sch 40

5- Type/slot size of screen: 2" Sch 40 PVC .01 slot

6- Type screen filter: #1 Filter Sand
a) Quantity used: 1 1/2 bags

7- Type of Seal: Shur Plug 3/8" chips
a) Quantity used: 1/2 bag

8- Grout
a) Grout mix used: Portland cement/Bentonite
b) Method of placement: Tremie pipe
c) Vol. of well casing grout:

Development method: Whale Pump

Development time: 0.50 hours

Estimated purge volume: 55 gallons

Comments:

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well & Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED Apr 15
TIME COMPLETED 10:00 AM ☑ PM ☐

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
426W17
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☑Flat ☐Ridge ☐Other
LATITUDE 36 34.53.769 " DMS OR 3x.xxxxxxxxx DD
LONGITUDE 75 76.54.098 " DMS OR 7x.xxxxxxxxx DD
Latitude/longitude source: ☑GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
PSC Bx 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 47'
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: 10 FT.
(Use "+" if Above Top of Casing)
d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):

Top 0	Bottom 47	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

	Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 37	Ft. 2		Sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:

	Depth		Material	Method
Top 30	Bottom 33	Ft.	Surplug	Gravity
Top 0	Bottom 33	Ft.	Cement	Pumped
Top	Bottom	Ft.		

9. SCREEN:

	Depth		Diameter	Slot Size	Material
Top 37	Bottom 47	Ft. 2	in.	10 in.	PVC
Top	Bottom	Ft.	in.	in.	
Top	Bottom	Ft.	in.	in.	

10. SAND/GRAVEL PACK:

	Depth		Size	Material
Top 33	Bottom 50	Ft.	#1	Sand
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	10	Tan silty Sand
10	15	Tan Silty Sand
15	20	Grey Med Sand
20	30	Grey Med Sand
30	40	Dark Grey Med Sand
40	45	Sandy shells
45	50	Silty clay

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

T Mat — 28 APR 09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 1/08

PROJECT NUMBER	BORING NUMBER	
386383.FI.MW.MW	42GW17	SHEET 1 OF 1

SOIL BORING LOG

PROJECT : MCAS Cherry Point | DRILLING CONTRACTOR : Miller Drilling Inc. | LOCATION : Site 42

ELEVATION : 13.23 feet amsl | NORTHING: 423787.09 | EASTING: 2629084.55

DRILLING METHOD AND EQUIPMENT USED : Rotosonic 4 inch diameter cores, 6 inch overcore

WATER LEVELS : 08 ' | START : 4/15/2009 1454 | END : 4/15/2009 1800 | LOGGER : Mark Ost

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Breathing Zone / Above Hole
	0-10	0"	Sonic Cutting		No recovery	0ppm
10	10'-20'	120"	Sonic Cutting		Silty Sand (SM), very pale brown (10YR 8/4), moist, loose	0ppm
					Lean Clay (CL), gray (10YR 5/1), saturated, loose, high plasticity	
						0ppm
20	20'-30'	36"	Sonic Cutting		Poorly Graded Sand (SP), gray (10YR 5/1), saturated, loose, fine grained, some silt Same as above, medium grained	0ppm
30	30-40'	120"	Sonic Cutting		Same as above, shell fragments	0ppm
40	40-50"	84"	Sonic Cutting		Same as above, shell hash and coral, wood fragments	0ppm
					Silt (ML), very dark greenish gray (Gley 1 3/5G) medium dense, slightly plastic	
					End of boring at 47 feet bgs	
50						
60						

PROJECT NUMBER	WELL NUMBER		
386383.FI.MW.MW	42GW17	SHEET 1	OF 1

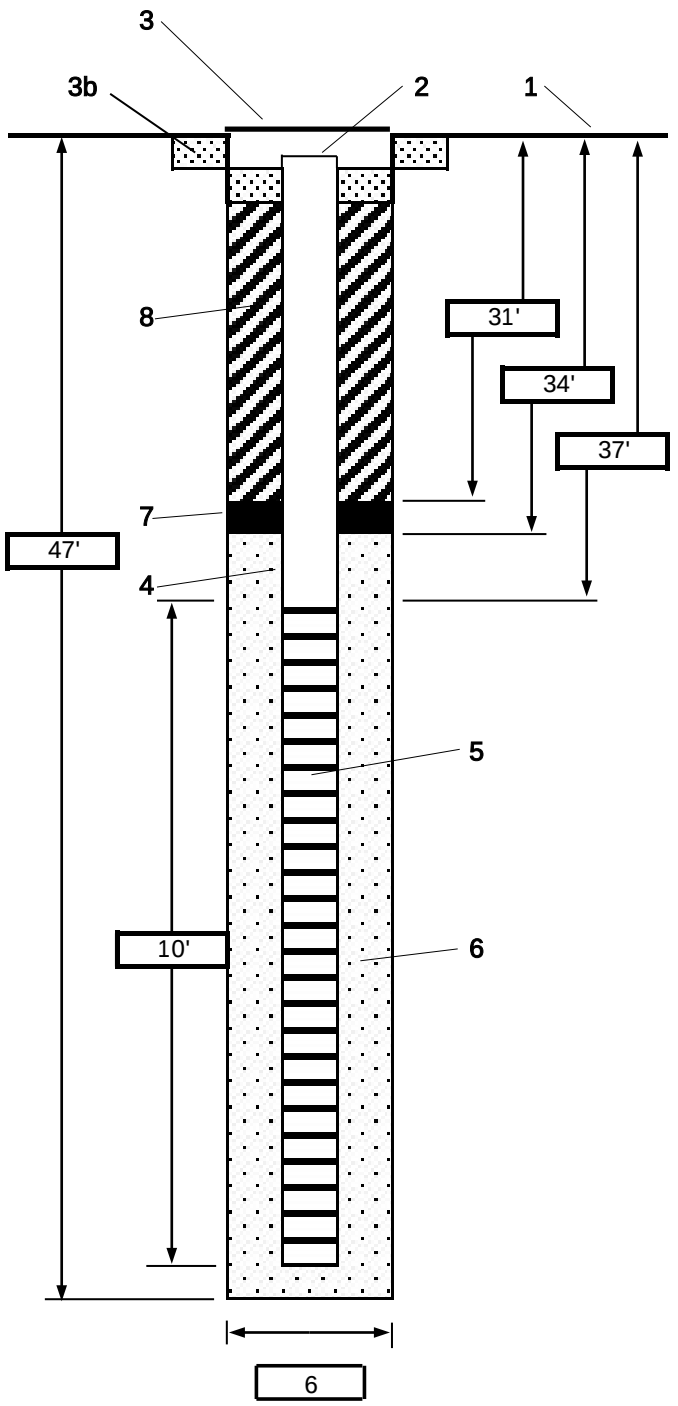
WELL COMPLETION DIAGRAM

PROJECT : CTO-208 LOCATION Cherry Point Site 42

DRILLING CONTRACTOR : Miller Drilling Inc. NORTHING: 423787.09 EASTING:2629084.55

DRILLING METHOD AND EQUIPMENT USED : 6 inch Rotosonic

WATER LEVELS : 4.0' bgs START : 04/16/2009 0750 END :04/16/2009 10 LOGGER : Mark Ost



1- Ground elevation at well: 13.23 feet amsl

2- Top of casing elevation: 12.72 feet amsl

3- Wellhead protection cover type: Flushmount
a) drain tube? No
b) concrete pad dimensions 2 ft. Square

4- Dia./type of well casing: 2" PVC Sch 40

5- Type/slot size of screen: 2" Sch 40 PVC .01 slot

6- Type screen filter: #1 Filter Sand
a) Quantity used 5 bags

7- Type of Seal: Shur Plug 3/8" chips
a) Quantity used 1/2 bag

8- Grout
a) Grout mix used: Portland cement/Bentonite
b) Method of placement: Tremie pipe
c) Vol. of well casing grout

Development method: Whale Pump

Development time: 0.50 hours

Estimated purge volume: 55 gallons

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well + Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED 19 APR 09
TIME COMPLETED 2:00 AM ☐ PM ☑

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
426 W 18
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☑Flat ☐Ridge ☐Other
LATITUDE 36 34 · 89 · 479 " DMS OR 3x.xxxxxxxx DD
LONGITUDE 75 76 · 90 · 365 " DMS OR 7x.xxxxxxxx DD
Latitude/longitude source: ☑GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
PSC BX 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 23
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: FT.
(Use "+" If Above Top of Casing)
d. **TOP OF CASING IS** 2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. YIELD (gpm): **METHOD OF TEST**
f. **DISINFECTION: Type** **Amount**

g. **WATER ZONES** (depth):
Top 20 Bottom 30 Top Bottom
Top Bottom Top Bottom
Top Bottom Top Bottom

7. CASING:

Depth	Diameter	Thickness/ Weight	Material
Top +2 Bottom 13 Ft.	2	Sch 40	PVC
Top Bottom Ft.			
Top Bottom Ft.			

8. GROUT:

Depth	Material	Method
Top 0 Bottom 9 Ft.	Cement	Pressure
Top 9 Bottom 11 Ft.	Surplug	Gravity
Top Bottom Ft.		

9. SCREEN:

Depth	Diameter	Slot Size	Material
Top 13 Bottom 23 Ft.	2 in.	.10 in.	PVC
Top Bottom Ft.	in.	in.	
Top Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth	Size	Material
Top 11 Bottom 25 Ft.	#1	Sand
Top Bottom Ft.		
Top Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	20	Dirt
20	30	Grey fine Silty Sand

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 28 APR 09

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 2/09

PROJECT NUMBER	WELL NUMBER	
368383.FI.MW.MW	42GW18	SHEET 1 OF 1

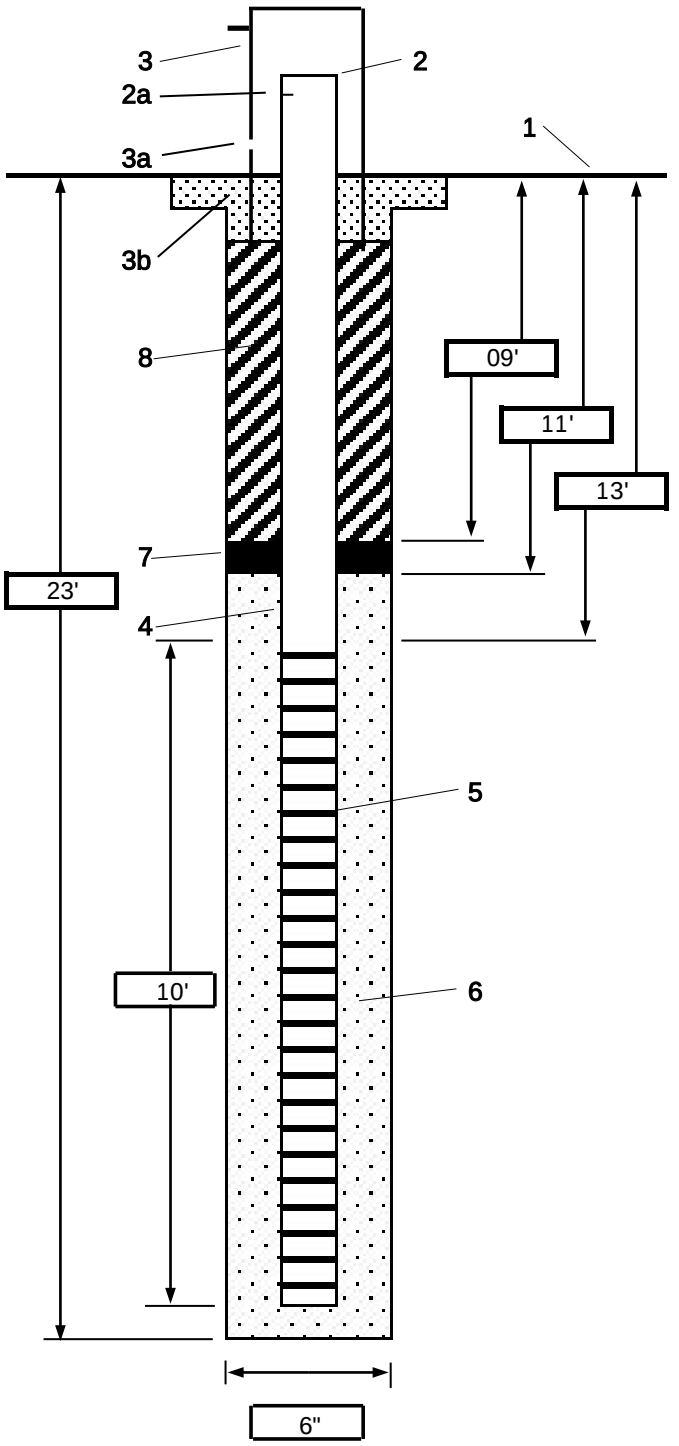
WELL COMPLETION DIAGRAM

PROJECT : MCAS Cherry Point CTO-208 LOCATION : Cherry Point Site 42

DRILLING CONTRACTOR : Miller Drilling Inc. Northing: 423307.25 Easting: 2628522.99

DRILLING METHOD AND EQUIPMENT USED : 6' rotosonic

WATER LEVELS : 4' START : 04/19/2009 1410 END : 04/19/2009 15 LOGGER : Mark Ost



1- Ground elevation at well: 9.58 feet amsl

2- Top of casing elevation: 12.18 feet amsl
a) vent hole? No

3- Wellhead protection cover type: Stick-up
a) Bollards: Four bollards
b) concrete pad dimensions: 2' x 2' concrete pad

4- Dia./type of well casing: 2" Sch 40 PVC

5- Type/slot size of screen: 2" PVC Sch 40 10 slot

6- Type screen filter: #1 silica pack
a) Quantity used: 3 1/2,50# bags

7- Type of seal: Bentonite 3/8" chips
a) Quantity used: 1/2, 50# bag

8- Grout
a) Grout mix used: Portland Cement, Bentonite grout
b) Method of placement: tremie pipe
c) Vol. of well casing grout:

Development method: Whale Pump

Development time: 0.5 hours

Estimated purge volume: 55 gal.

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well + Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED 19 APR 09
TIME COMPLETED 10:00 AM ☒ PM ☐

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
426 GW 19
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☒Flat ☐Ridge ☐Other
LATITUDE 36 34 89.479 " DMS OR 3x.xxxxxxxx DD
LONGITUDE 75 76 90 365 " DMS OR 7x.xxxxxxxx DD
Latitude/longitude source: ☒GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
PSC Bx 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 41
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)
d. **TOP OF CASING IS** 2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION; Type** _____ **Amount** _____

9. WATER ZONES (depth):

Top 0	Bottom 41	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

	Depth		Diameter	Thickness/ Weight	Material
Top 2	Bottom 30	Ft.	2	Sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:

	Depth		Material	Method
Top 0	Bottom 26	Ft.	Cement	Pumped
Top 26	Bottom 28	Ft.	Surplug	Gravity
Top	Bottom	Ft.		

9. SCREEN:

	Depth		Diameter	Slot Size	Material
Top 31	Bottom 40	Ft.	2 in.	.10 in.	PVC
Top	Bottom	Ft.	in.	in.	
Top	Bottom	Ft.	in.	in.	

10. SAND/GRAVEL PACK:

	Depth		Size	Material
Top 28	Bottom 50	Ft.	#1	Sand
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	20	Dirt
20	40	Grey fine silty Sand
40	50	Light Grey Clay

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[signature] 28 APR 09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 2/09

PROJECT NUMBER	BORING NUMBER	
386383.FI.MW.MW	42GW19	SHEET 1 OF 1

SOIL BORING LOG

PROJECT : MCAS Cherry Point | DRILLING CONTRACTOR : Miller Drilling Inc. | LOCATION : Site 42

ELEVATION : 9.59 feet amsl | NORTHING: 423300.24 | EASTING: 2628582.28

DRILLING METHOD AND EQUIPMENT USED : Rotosonic 4 inch diameter cores, 6 inch overcore

WATER LEVELS : 08 ' | START : 4/18/2009 0905 | END : 4/19/2009 1144 | LOGGER : Mark Ost

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Breathing Zone Above Hole
	0-10	36"	Sonic Cutting		Top soil	0ppm
10	10'-20'	48"	Sonic Cutting		Top Soil and Construction fill	0ppm
20	20'-30'	120"	Sonic Cutting		Poorly Graded Sand (SP), light gray (10YR 7/1), saturated, loose, some shell fragments	1.5ppm
30	30-40'	120"	Sonic Cutting		Same as above, gray (2.5Y 5/1)	12.8ppm
40	40-50"	12"	Sonic Cutting		Lean Clay (CL), very dark greenish gray (Gley 1 3/5G), dry, medium dense, low plasticity End of boring at 41 feet bgs	9.0ppm
50						
60						

	PROJECT NUMBER	WELL NUMBER
CH2MHILL	368383.FI.MW.MW	42GW19 SHEET 1 OF 1

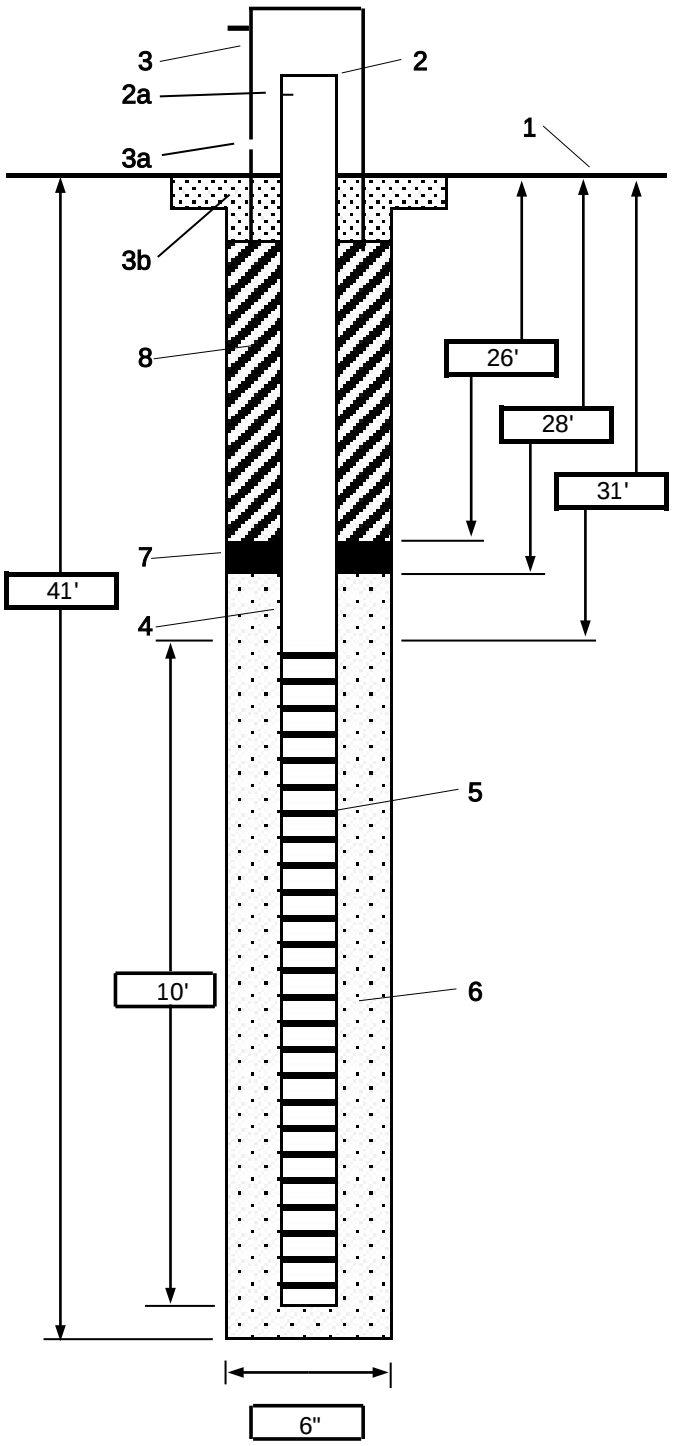
WELL COMPLETION DIAGRAM

PROJECT : MCAS Cherry Point CTO-208 LOCATION : Cherry Point Site 42

DRILLING CONTRACTOR : Miller Drilling Inc. Northing: 423300.24 Northing: 2628582.28

DRILLING METHOD AND EQUIPMENT USED : 6' rotosonic

WATER LEVELS : 4' START : 04/19/2009 1144 END : 04/19/2009 13 LOGGER : Mark Ost



1- Ground elevation at well: 9.59 feet amsl

2- Top of casing elevation: 12.19 feet amsl
a) vent hole? No

3- Wellhead protection cover type: Stick-up
a) Bollards: Four bollards
b) concrete pad dimensions: 2' x 2' concrete pad

4- Dia./type of well casing: 2" Sch 40 PVC

5- Type/slot size of screen: 2" PVC Sch 40 10 slot

6- Type screen filter: #1 silica pack
a) Quantity used: 4 1/2,50# bags

7- Type of seal: Bentonite 3/8" chips
a) Quantity used: 1/2, 50# bag

8- Grout
a) Grout mix used: Portland Cement, Bentonite grout
b) Method of placement: tremie pipe
c) Vol. of well casing grout:

Development method: Whale Pump

Development time: 0.5 hours

Estimated purge volume: 55 gal.

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well + Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED Apr 16 09
TIME COMPLETED 4:00 AM ☐ PM ☑

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
426 GW 20
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other
LATITUDE 36 34 89 478 " DMS OR 3x.XXXXXXXX DD
LONGITUDE 75 76 90 562 " DMS OR 7x.XXXXXXXX DD
Latitude/longitude source: ☒ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
PSC Bx 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 25
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)
d. **TOP OF CASING IS** 2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):
Top 0 Bottom 25 Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:

Depth			Diameter	Thickness/ Weight	Material
Top 0	Bottom 15	Ft. 2		Sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:

Depth			Material	Method
Top 0	Bottom ~~12.5~~ 10	Ft.	Cement	Pumped
Top 10	Bottom 12.5	Ft.	Surplug	Gravity
Top	Bottom	Ft.		

9. SCREEN:

Depth			Diameter	Slot Size	Material
Top 15	Bottom 25	Ft. 2 in.	.10 in.		PVC
Top	Bottom	Ft. in.	in.		
Top	Bottom	Ft. in.	in.		

10. SAND/GRAVEL PACK:

Depth			Size	Material
Top 12.5	Bottom 25	Ft.	#1	Sand
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	10	Tan Silty Sand
10	20	Silty Grey Med Sand
20	25	Silty Orange / yellow Sand

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 28 APR 09

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 1/08

PROJECT NUMBER	WELL NUMBER	
368383.FI.MW.MW	42GW20	SHEET 1 OF 1

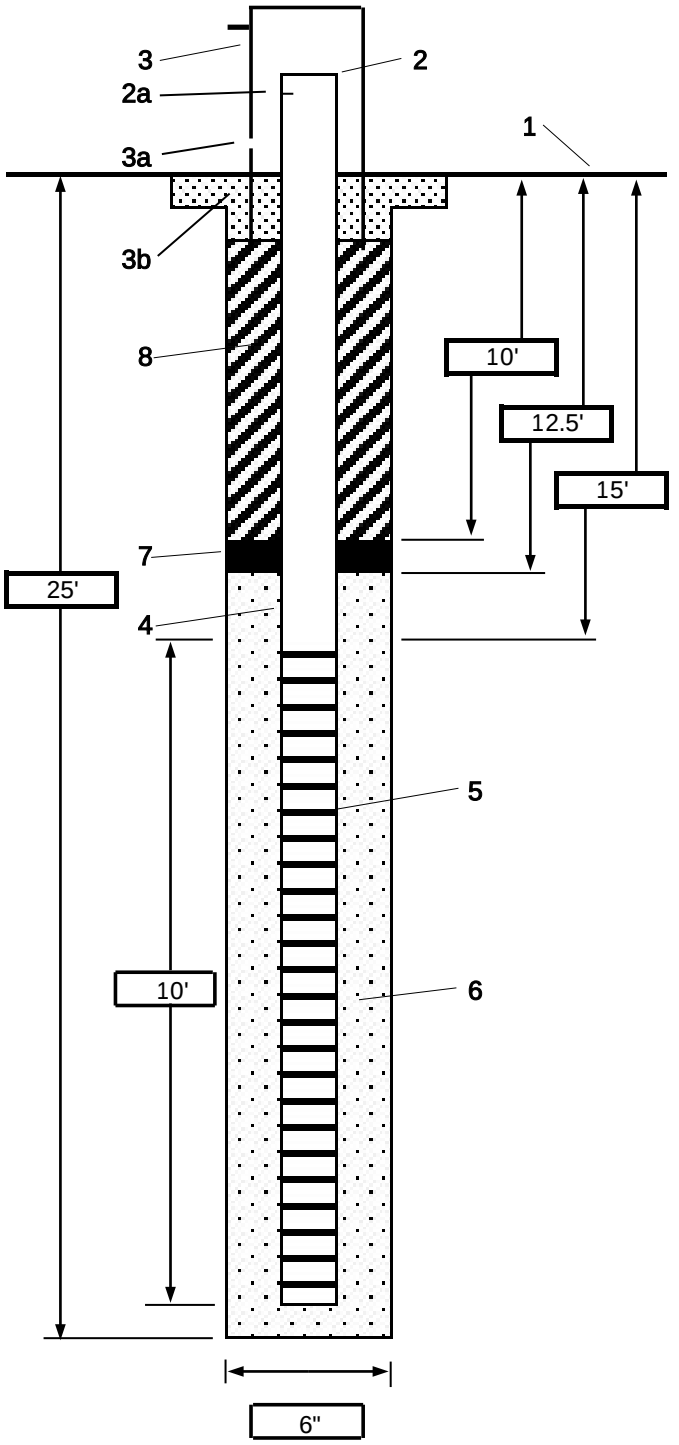
WELL COMPLETION DIAGRAM

PROJECT : MCAS Cherry Point CTO-208 LOCATION : Cherry Point Site 42

DRILLING CONTRACTOR : Miller Drilling Inc. Northing: 423245.49 Easting: 2627957.41

DRILLING METHOD AND EQUIPMENT USED : 6' rotosonic

WATER LEVELS : 4' START : 04/16/2009 1725 END : 04/16/2009 21 LOGGER : Mark Ost



1- Ground elevation at well: 11.77 feet amsl

2- Top of casing elevation: 14.40 feet amsl
a) vent hole?: No

3- Wellhead protection cover type: Stick-up
a) Bollards: Four bollards
b) concrete pad dimensions: 2' x 2' concrete pad

4- Dia./type of well casing: 2" Sch 40 PVC

5- Type/slot size of screen: 2" PVC Sch 40 10 slot

6- Type screen filter: #1 silica pack
a) Quantity used: 2 1/2,50# bags

7- Type of seal: Bentonite 3/8" chips
a) Quantity used: 1/2, 50# bag

8- Grout
a) Grout mix used: Portland Cement, Bentonite grout
b) Method of placement: tremie pipe
c) Vol. of well casing grout:

Development method: Whale Pump

Development time: 0.5 hours

Estimated purge volume: 55 gal.

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well + Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED Apr 16 09
TIME COMPLETED 2:00 AM ☐ PM ☒

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
426 W 21
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other
LATITUDE 36 34 89 478 " DMS OR 3x.xxxxxxxx DD
LONGITUDE 75 76 90 562 " DMS OR 7x.xxxxxxxx DD
Latitude/longitude source: ☒ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
PSC Bx 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 41'
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)
d. **TOP OF CASING IS** 2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION:** Type _____ **Amount** _____

g. **WATER ZONES** (depth):
Top 0 Bottom 40 Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 2	Bottom 30 Ft.	2"	Sch 40	PVC
Top	Bottom Ft.			
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 0	Bottom 27 Ft.	Cement	Pumped
Top 27	Bottom 29 Ft.	Surplug	Gravity
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 31	Bottom 40 Ft.	10 in.	10 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 29	Bottom 50 Ft.	#1	Sand
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	10	Tan Silty Sand
10	20	Silty Grey Med Sand
20	30	Silty orange Med Sand
30	40	Orange/yellow Med Sand
40	56	Olive grey Fine silty Clay

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 28 APR 09

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 1/08

PROJECT NUMBER	BORING NUMBER	
386383.FI.MW.MW	42GW21	SHEET 1 OF 1

SOIL BORING LOG

PROJECT : MCAS Cherry Point | DRILLING CONTRACTOR : Miller Drilling Inc. | LOCATION : Site 42

ELEVATION : 11.72 feet amsl | NORTHING: 423255.04 | EASTING: 2627955.92

DRILLING METHOD AND EQUIPMENT USED : Rotosonic 4 inch diameter cores, 6 inch overcore

WATER LEVELS : 08 ' | START : 4/16/2009 1445 | END : 4/16/2009 1618 | LOGGER : Mark Ost

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Breathing Zone Above Hole
	0-10	12"	Sonic Cutting		Poorly Graded Sand (SP), yellow (2.5Y 7/8), moist, loose	0ppm
10	10'-20'	72"	Sonic Cutting		Silty Sand (SM), light gray (7.5YR 7/1), saturated, loose	0ppm
					Poorly Graded Sand (SP), very pale brown (10YR7/3), saturated, loose, medium sand, iron stain at 15 feet	
					Poorely Gradaed Sand (SP), gray (10YR 5/1), saturated, loose, fine grained, some silt	
20	20'-30'	72"	Sonic Cutting		Same as above	0ppm
30	30-40'	36"	Sonic Cutting		Same as above	0ppm
40	40-50"	120"	Sonic Cutting		Lean Clay (CL), very dark greenish gray (Gley 2 3/10BG), dry, shell fragments and gravel	0ppm
					Silt (ML), very dark greenish gray (Gley 1 3/5G), medium dense	
50					End of boring	
60						

PROJECT NUMBER	WELL NUMBER	
368383.FI.MW.MW	42GW21	SHEET 1 OF 1

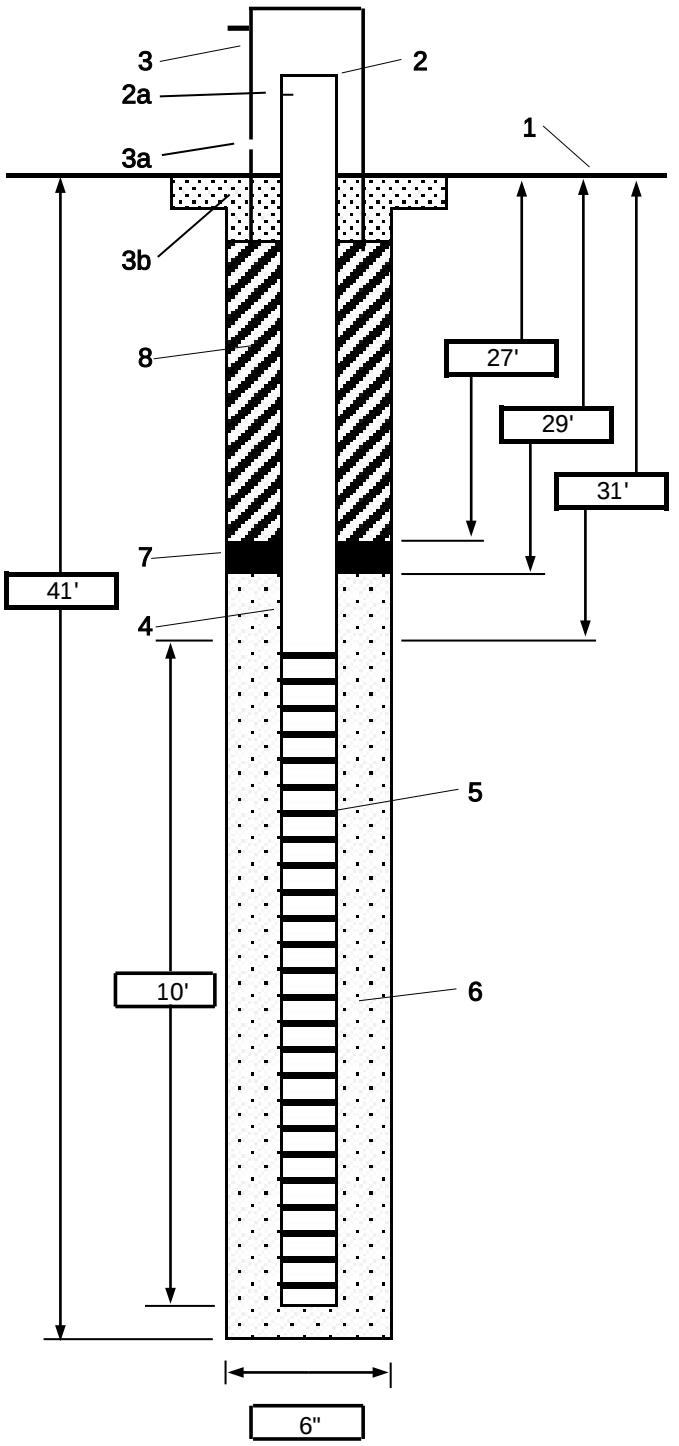
WELL COMPLETION DIAGRAM

PROJECT : MCAS Cherry Point CTO-208 LOCATION : Cherry Point Site 42

DRILLING CONTRACTOR : Miller Drilling Inc. Northing: 423255.04 Easting: 2627955.92

DRILLING METHOD AND EQUIPMENT USED : 6' rotosonic

WATER LEVELS : 4' START : 04/16/2009 1618 END : 04/16/2009 17 LOGGER : Mark Ost



1- Ground elevation at well: 11.72 feet amsl

2- Top of casing elevation: 14.15 feet amsl
a) vent hole?: No

3- Wellhead protection cover type: Stick-up
a) Bollards: Four bollards
b) concrete pad dimensions: 2' x 2' concrete pad

4- Dia./type of well casing: 2" Sch 40 PVC

5- Type/slot size of screen: 2" PVC Sch 40 10 slot

6- Type screen filter: #1 silica pack
a) Quantity used: 4,50# bags

7- Type of seal: Bentonite 3/8" chips
a) Quantity used: 1/2, 50# bag

8- Grout
a) Grout mix used: Portland Cement, Bentonite grout
b) Method of placement: tremie pipe
c) Vol. of well casing grout:

Development method: Whale Pump

Development time: 0.5 hours

Estimated purge volume: 55 gal.

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well & Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED 17 APR 09
TIME COMPLETED 2:00 AM ☐ PM ☒

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
42 GW 22
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other
LATITUDE 36 34.53.586 " DMS OR 3x.xxxxxxxx DD
LONGITUDE 75 76.54.273 " DMS OR 7x.xxxxxxxx DD
Latitude/longitude source: ☒ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
PSC Bx 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 30
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" If Above Top of Casing)
d. **TOP OF CASING IS** 2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):

Top 0	Bottom 30	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

	Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 20	Ft.	2	Sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:

	Depth		Material	Method
Top 0	Bottom 15	Ft.	Cement	Pumped
Top 15	Bottom 17	Ft.	Surplug	Gravity
Top	Bottom	Ft.		

9. SCREEN:

	Depth		Diameter		Slot Size		Material
Top 20	Bottom 30	Ft.	2	in.	.10	in.	PVC
Top	Bottom	Ft.		in.		In.	
Top	Bottom	Ft.		in.		in.	

10. SAND/GRAVEL PACK:

	Depth		Size	Material
Top 17	Bottom 30	Ft.	#1	Sand
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	10	Tan Silty Sand
10	20	yellowish Fine Sand
20	25	Grey fine Silty Sand
25	30	Dark yellow Med Sand

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 28 APR 09

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 1/08

PROJECT NUMBER	WELL NUMBER	
368383.FI.MW.MW	42GW22	SHEET 1 OF 1

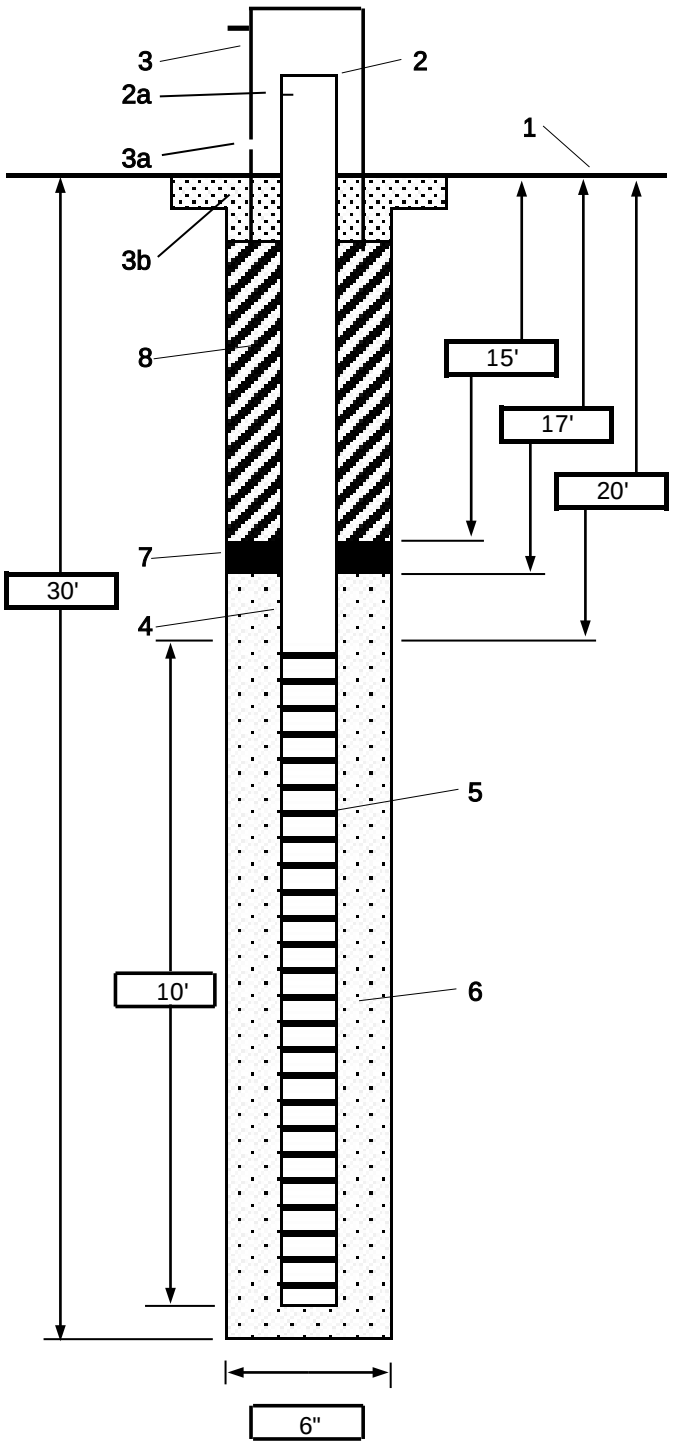
WELL COMPLETION DIAGRAM

PROJECT : MCAS Cherry Point CTO-208 LOCATION : Cherry Point Site 42

DRILLING CONTRACTOR : Miller Drilling Inc. Northing: 422686.79 Easting: 2628303.76

DRILLING METHOD AND EQUIPMENT USED : 6' rotosonic

WATER LEVELS : 4' START : 04/17/2009 1208 END : 04/17/2009 14 LOGGER : Mark Ost



1- Ground elevation at well: 15.89 feet amsl

2- Top of casing elevation: 18.83 feet amsl
a) vent hole?: No

3- Wellhead protection cover type: Stick-up
a) Bollards: Four bollards
b) concrete pad dimensions: 2' x 2' concrete pad

4- Dia./type of well casing: 2" Sch 40 PVC

5- Type/slot size of screen: 2" PVC Sch 40 10 slot

6- Type screen filter: #1 silica pack
a) Quantity used: 3,50# bags

7- Type of seal: Bentonite 3/8" chips
a) Quantity used: 1/2, 50# bag

8- Grout
a) Grout mix used: Portland Cement, Bentonite grout
b) Method of placement: tremie pipe
c) Vol. of well casing grout:

Development method: Whale Pump

Development time: 0.5 hours

Estimated purge volume: 55 gal.

Comments

RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3196

1. WELL CONTRACTOR:
Tommy Morton
Well Contractor (Individual) Name
Morton Well & Pump
Well Contractor Company Name
Po Bx 692
Street Address
Morehead City NC 28557
City or Town State Zip Code
(252) 342-3746
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable)

3. WELL USE (Check Applicable Box): Residential Water Supply ☐
DATE DRILLED 17 APR 09
TIME COMPLETED 10:00 AM ☑ PM ☐

4. WELL LOCATION:
CITY: Havelock COUNTY Craven
426W23
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other
LATITUDE 36 34.53.586 " DMS OR 3X.XXXXXXXX DD
LONGITUDE 75 76.54.273 " DMS OR 7X.XXXXXXXX DD
Latitude/longitude source: ☑ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. WELL OWNER
Navy
Owner Name
PSC Bx 8006
Street Address
Cherry Point NC 28533
City or Town State Zip Code
( )
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 50'
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)
d. **TOP OF CASING IS** 2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):
Top 0 Bottom 50 Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:

	Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 40	Ft.	2	Sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:

	Depth		Material	Method
Top 0	Bottom 36	Ft.	Cement	Pumped
Top 36	Bottom 38	Ft.	Surplug	Gravity
Top	Bottom	Ft.		

9. SCREEN:

	Depth		Diameter		Slot Size		Material
Top 40	Bottom 50	Ft.	2	in.	.10	in.	PVC
Top	Bottom	Ft.		in.		In.	
Top	Bottom	Ft.		In.		in.	

10. SAND/GRAVEL PACK:

	Depth		Size	Material
Top 38	Bottom 50	Ft.	#1	Sand
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	10	Tan Silty Sand
10	20	yellow/orange Fine Sand
20	25	Grey fine Silty Sand
25	30	Dark yellow Med Sand
30	40	Light Grey Med Sand
40	50	Light Grey Med Sand

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 28 APR 09

Harry Huntoon
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1a
Rev. 1/08

PROJECT NUMBER	BORING NUMBER	
386383.FI.MW.MW	42GW23	SHEET 1 OF 1

SOIL BORING LOG

PROJECT : MCAS Cherry Point | DRILLING CONTRACTOR : Miller Drilling Inc. | LOCATION : Site 42

ELEVATION : 15.92 feet amsl | NORTHING: 422680.60 | EASTING: 2628295.75

DRILLING METHOD AND EQUIPMENT USED : Rotosonic 4 inch diameter cores, 6 inch overcore

WATER LEVELS : 08 ' | START : 4/17/2009 0909 | END : 4/17/2009 1106 | LOGGER : Mark Ost

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Breathing Zone / Above Hole
	0-10	72"	Sonic Cutting		Silty Sand (SM), very pale brown (10YR 8/4), dry, loose	0ppm
10	10'-20'	84"	Sonic Cutting		Poorly Graded Sand (SP), very pale brown (10YR 8/4), saturated, loose, iron stain and dark mottling	0ppm
					Same as above, moist	
20	20'-30'	120"	Sonic Cutting		Same as above	6.0ppm
					Poorly Graded Sand (SP), yellowish brown (10YR 5/6), saturated, medium grained, dark mottling, loose	4.7ppm
					Poorly Graded Sand (SP), gray (10YR 5/1), saturated, very fine grained	
30	30-40'	120"	Sonic Cutting		same as above	8.7ppm
40	40-50"	120"	Sonic Cutting		Poorly Graded Sand (SP), gray (10YR 5/1), saturated, loose, shall fragments from 49 to 50 feet	0ppm
50					End of boring at 50 feet bgs	
60						

PROJECT NUMBER	WELL NUMBER	
368383.FI.MW.MW	42GW23	SHEET 1 OF 1

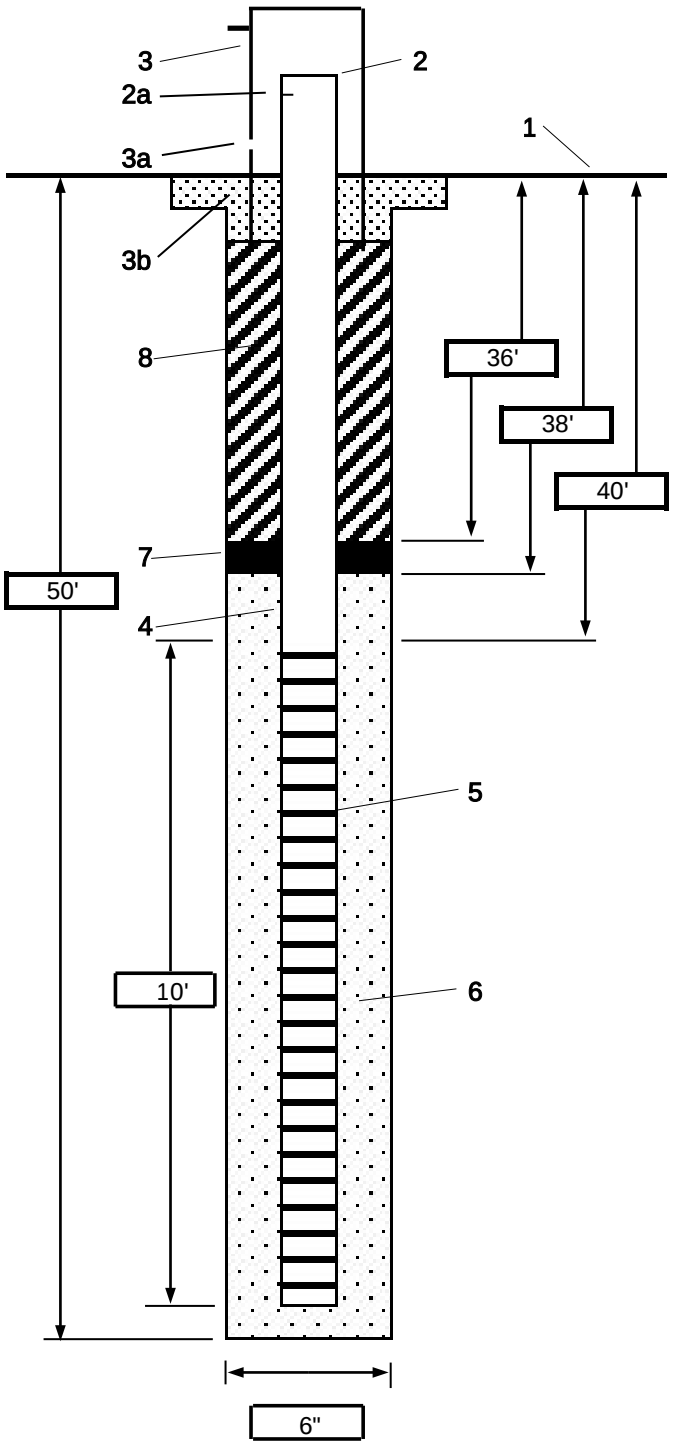
WELL COMPLETION DIAGRAM

PROJECT : MCAS Cherry Point CTO-208 LOCATION : Cherry Point Site 42

DRILLING CONTRACTOR : Miller Drilling Inc. Northing: 422680.60 Easting: 2628295.75

DRILLING METHOD AND EQUIPMENT USED : 6' rotosonic

WATER LEVELS : 4' START : 04/17/2009 1106 END : 04/17/2009 12 LOGGER : Mark Ost



1- Ground elevation at well: 15.92 feet amsl

2- Top of casing elevation: 18.78 feet amsl
a) vent hole?: No

3- Wellhead protection cover type: Stick-up
a) Bollards: Four bollards
b) concrete pad dimensions: 2' x 2' concrete pad

4- Dia./type of well casing: 2" Sch 40 PVC

5- Type/slot size of screen: 2" PVC Sch 40 10 slot

6- Type screen filter: #1 silica pack
a) Quantity used: 2 1/2,50# bags

7- Type of seal: Bentonite 3/8" chips
a) Quantity used: 1/2, 50# bag

8- Grout
a) Grout mix used: Portland Cement, Bentonite grout
b) Method of placement: tremie pipe
c) Vol. of well casing grout:

Development method: Whale Pump

Development time: 0.5 hours

Estimated purge volume: 55 gal.

Comments

Attachment B
Survey Data

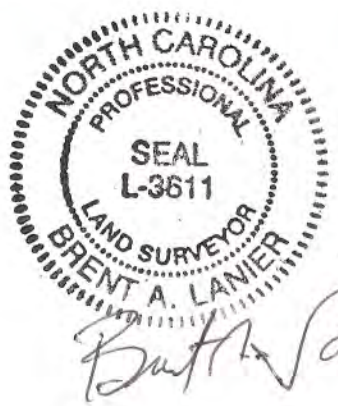
LANIER
SURVEYING COMPANY

134 Cedar Point Boulevard
Cedar Point NC, 28584

Date: 05-06-09, Revised 06-08-09 Corrected Well Id's
Reference: CTO-059
MONITORING WELLS OPERABLE UNIT 1
Marine Corps Air Station Cherry Point
Havelock, North Carolina

DATUM: STATE PLANE NAD 83 NORTH CAROLINA 3200 (NSRS2007) FEET
ELEVATION DATUM: NAVD 88 FEET
Control Reference: North Carolina Geodetic Network
Jacksonville CORS
Castle Hayne CORS
Morehead City CORS

POINT ID	NORTHING	EASTING	PVC	GROUND
42GW-21	423255.04	2627955.92	14.15	11.72
42GW-20	423245.49	2627957.41	14.40	11.77
42GW-18	423307.25	2628588.99	12.18	9.58
42GW-19	423300.24	2628582.28	12.19	9.59
42GW-16	423793.86	2629092.31	12.89	13.25
42GW-17	423787.09	2629084.55	12.72	13.23
14GW-53	424015.05	2629877.07	18.11	18.47
17GW-03	421279.21	2629956.41	19.15	16.33
42GW-23	422680.60	2628295.75	18.78	15.92
42GW-22	422686.79	2628303.76	18.83	15.89
16GW-49	420939.06	2628045.21	6.11	3.81
16GW-52	421217.68	2628603.83	22.77	23.11
16GW-50	421730.74	2628050.21	24.41	21.94
16GW-51	421454.56	2628102.14	26.73	24.30



6/08/09

Attachment C
Laboratory Analytical Reports

Analytical Report For 903062

for

CH2M Hill Inc

Project Manager: Emma Brower

Project Name: CTO-059 386383.FI.FQ.FQ

GPL Laboratories

GPL Laboratories, LLLP certifies that the test results meet all requirements of the NELAC Standards unless otherwise noted.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Seven water samples were received on 03/11/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Seven water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.

Samples OUI-MW50-0309 and OUI-TB01-0309 exhibited one high surrogate recovery outside of the QC limits. Since no target analytes were found in the samples, no further corrective action was taken. All other surrogate recoveries and internal standard responses were within the QC limits.

A laboratory control sample and laboratory control sample duplicate were analyzed along with the sample batch. For BKS/BKSD108777, all of the RPDs were within the RPD QC limits, and six spike recoveries, out of one hundred forty, were outside of the QC limits.

Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Six water samples were analyzed for Chloride, Nitrate as Nitrogen, and Nitrite as Nitrogen by EPA method 300.0.

Matrix spike and duplicate analyses were performed on sample OUI-MW50-0309. Percent recoveries for Nitrite as Nitrogen and Chloride were outside the QC limits. Since the laboratory control sample recoveries for these analytes were within the QC limits, no corrective action was taken. All other QC criteria were met.

A laboratory control sample was analyzed along with the batch. All QC criteria were met.

General Chemistry

Six water samples were analyzed for Sulfide by EPA method 376.1. A duplicate analysis was performed on samples OU1-EB-031009 and OU1-FB-031009 at the client's request. All QC criteria were met.

Six water samples were analyzed for Total Organic Carbon by SW846 method 9060. All samples were analyzed in quadruplicate. Matrix spike analyses were performed in duplicate on samples OU1-EB-031009 and OU1-FB-031009 at the client's request. All QC criteria were met.

Other Analysis

Five water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Two samples:OUI-MW51-0309 and OUI-MW5D-0309 were diluted to fit the results within the instrument calibration.

The matrix spike and matrix spike duplicate analyses were performed on sample OUI-16GW01-0309. All of the RPDs were withir the RPD QC limits, and all spike recoveries were within the QC limits.

Reviewed By,

Project Manager

Approved By,

Laboratory Director

Sample Summary Report

CH2M Hill Inc

Work Order: 903062

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
OUI-16GW01-0309	903062-006-016-1/3	SW8260LL	WATER	03/10/2009	03/11/2009
	903062-006-032-1/2	GPL-RSK-175			
	903062-006-039-1/1	E300			
	903062-006-045-1/1	E376.1			
	903062-006-051-1/1	SW9060			
OUI-16GW16-0309	903062-003-007-1/3	SW8260LL	WATER	03/10/2009	03/11/2009
	903062-003-026-1/2	GPL-RSK-175			
	903062-003-036-1/1	E300			
	903062-003-042-1/1	E376.1			
	903062-003-048-1/1	SW9060			
OUI-EB-031009	903062-001-001-1/3	SW8260LL	WATER	03/10/2009	03/11/2009
	903062-001-022-1/2	GPL-RSK-175			
	903062-001-034-1/1	E300			
	903062-001-040-1/1	E376.1			
	903062-001-046-1/1	SW9060			
OUI-FB-031009	903062-002-004-1/3	SW8260LL	WATER	03/10/2009	03/11/2009
	903062-002-024-1/2	GPL-RSK-175			
	903062-002-035-1/1	E300			
	903062-002-041-1/1	E376.1			
	903062-002-047-1/1	SW9060			
OUI-MW50-0309	903062-005-013-1/3	SW8260LL	WATER	03/10/2009	03/11/2009
	903062-005-030-1/2	GPL-RSK-175			
	903062-005-038-1/1	E300			
OUI-MW50-0309DL	903062-005-031-2/2DL	GPL-RSK-175	WATER	03/10/2009	03/11/2009
OUI-MW51-0309	903062-004-010-1/3	SW8260LL	WATER	03/10/2009	03/11/2009
	903062-004-028-1/2	GPL-RSK-175			
	903062-004-037-1/1	E300			
	903062-004-043-1/1	E376.1			
	903062-004-049-1/1	SW9060			
OUI-MW51-0309DL	903062-004-029-2/2DL	GPL-RSK-175	WATER	03/10/2009	03/11/2009
OUI-MW5D-0309	903062-005-044-1/1	E376.1	WATER	03/10/2009	03/11/2009
	903062-005-050-1/1	SW9060			

Sample Summary Report

CH2M Hill Inc

Work Order: 903062

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
OUI-TB01-0309	903062-007-019-1/3	SW8260LL	WATER	03/10/2009	03/11/2009

QC SUMMARY PACKAGE

GPL Laboratories

VOLATILE ORGANICS

GPL Laboratories

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903062

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108777	102	122 *	111	116
BKSD108777	100	120	108	119
BLK108777	99	118	106	106
OUI-16GW01-0309	95	120	102	108
OUI-16GW16-0309	96	103	100	108
OUI-EB-031009	95	113	105	106
OUI-FB-031009	94	118	100	108
OUI-MW50-0309	97	121 *	97	110
OUI-MW51-0309	94	120	101	108
OUI-TB01-0309	97	122 *	96	108

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108777

Lab Name : GPL Laboratories SDG NO : 903062 Method : SW8260LL

Lab Code : GPL Lab Sample ID : BKSD108777 Matrix : WATER Analysis Date : 03/23/2009

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	QC Limits
1,1,1,2-Tetrachloroethane	50	0.0	57	56	114	112	2	25	80-130
1,1,1-Trichloroethane	50	0.0	57	56	114	112	2	25	65-130
1,1,2,2-Tetrachloroethane	50	0.0	50	53	100	106	6	25	65-130
1,1,2-Trichloroethane	50	0.0	61	62	122	124	2	25	75-125
1,1-Dichloroethane	50	0.0	57	56	114	112	2	25	70-135
1,1-Dichloroethene	50	0.0	53	50	104	100	4	25	70-130
1,1-Dichloropropene	50	0.0	50	51	100	102	2	25	75-130
1,2,3-Trichlorobenzene	50	0.0	61	60	122	120	2	25	55-140
1,2,3-Trichloropropane	50	0.0	50	56	100	112	11	25	75-125
1,2,4-Trichlorobenzene	50	0.0	61	58	120	116	3	25	65-135
1,2,4-Trimethylbenzene	50	0.0	54	53	108	106	2	25	75-130
1,2-Dibromo-3-Chloropropane	50	0.0	50	57	100	114	13	25	50-130
1,2-Dichlorobenzene	50	0.0	59	58	118	116	2	25	70-120
1,2-Dichloroethane	50	0.0	51	50	102	100	2	25	70-130
1,2-Dichloropropane	50	0.0	50	51	100	102	2	25	75-125
1,3,5-trimethylbenzene	50	0.0	54	54	108	108	0	25	75-130
1,3-Dichlorobenzene	50	0.0	60	60	120	120	0	25	75-125
1,3-Dichloropropane	50	0.0	50	52	100	104	4	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108777

Lab Name : GPL Laboratories SDG NO : 903062

Lab Code : GPL Lab Sample ID : BKSD108777

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	#
1,4-Dichlorobenzene	50	0.0	60	60	120	120	0	25	75-125
2,2-Dichloropropane	50	0.0	54	52	108	104	4	25	70-135
2-Butanone	100	0.0	96	99	96	99	3	25	30-150
2-Chlorotoluene	50	0.0	56	56	112	110	2	25	75-125
2-Hexanone	100	0.0	91	96	91	96	5	25	55-130
4-Chlorotoluene	50	0.0	56	56	112	112	0	25	75-130
4-Isopropyltoluene	50	0.0	59	59	118	118	0	25	75-130
4-Methyl-2-Pentanone	100	0.0	92	98	92	98	6	25	60-135
Acetone	100	0.0	93	86	92	86	7	25	40-140
Benzene	50	0.0	48	48	96	96	0	25	80-120
Bromobenzene	50	0.0	60	60	120	120	0	25	75-125
Bromochloromethane	50	0.0	62	65	124	130	5	25	65-130
Bromodichloromethane	50	0.0	59	49	118	98	19	25	75-120
Bromoform	50	0.0	59	60	116	120	3	25	70-130
Bromomethane	50	0.0	120	140	240 *	280 *	15	25	30-145
Carbon Disulfide	50	0.0	46	44	92	88	4	25	35-160
Carbon Tetrachloride	50	0.0	62	61	124	122	2	25	65-140
Chlorobenzene	50	0.0	52	53	104	106	2	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108777

Lab Name : GPL Laboratories SDG NO : 903062

Lab Code : GPL Lab Sample ID : BKSD108777

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Chloroethane	50	0.0	86	90	172 *	180 *	5	25	60-135
Chloroform	50	0.0	53	54	106	108	2	25	65-135
Chloromethane	50	0.0	47	48	92	96	4	25	40-125
Cyclohexane	50	0.0	51	51	100	102	2	25	50-120
Dibromochloromethane	50	0.0	53	52	106	104	2	25	60-135
Dibromomethane	50	0.0	51	50	102	100	2	25	75-125
Dichlorodifluoromethane	50	0.0	57	50	114	100	13	25	30-155
Ethylbenzene	50	0.0	50	49	100	98	2	25	75-125
Ethylene DiBromide	50	0.0	49	50	98	100	2	25	80-120
Freon 113	50	0.0	64	61	128	122	5	25	70-130
Hexachlorobutadiene	50	0.0	65	59	130	118	10	25	50-140
Isopropylbenzene	50	0.0	53	53	106	106	0	25	75-125
Methyl Acetate	50	0.0	44	56	88	112	24	25	50-120
Methylcyclohexane	50	0.0	55	54	108	108	0	25	50-120
Methylene Chloride	50	0.0	48	45	96	90	6	25	55-140
Naphthalene	50	0.0	55	60	110	120	9	25	55-140
Sec-Butylbenzene	50	0.0	56	54	110	108	2	25	70-125
Styrene	50	0.0	51	51	102	102	0	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108777

Lab Name : GPL Laboratories SDG NO : 903062

Lab Code : GPL Lab Sample ID : BKSD108777

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Tetrachloroethylene	50	0.0	61	58	122	116	5	25	45-150
Toluene	50	0.0	63	63	126 *	126 *	0	25	75-120
Trichloroethene	50	0.0	49	48	98	96	2	25	70-125
Trichlorofluoromethane	50	0.0	64	51	128	102	23	25	60-145
Vinyl Acetate	50	0.0	43	42	86	84	2	25	41-139
Vinyl Chloride	50	0.0	44	44	88	86	2	25	50-145
cis-1,2-Dichloroethene	50	0.0	48	49	96	98	2	25	70-125
cis-1,3-Dichloropropene	50	0.0	61	61	122	122	0	25	70-130
m,p-Xylene	100	0.0	110	110	110	110	0	25	75-130
n-Butylbenzene	50	0.0	53	51	106	102	4	25	70-135
n-Propylbenzene	50	0.0	52	51	104	102	2	25	70-130
o-Xylene	50	0.0	51	51	102	102	0	25	80-120
tert-Butylbenzene	50	0.0	56	56	112	112	0	25	70-130
tert-butyl methyl ether	50	0.0	57	58	114	116	2	25	65-125
trans-1,2-dichloroethene	50	0.0	52	52	104	104	0	25	60-140
trans-1,3-dichloropropene	50	0.0	59	61	118	122	3	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Lab File ID :	A62437.D	SDG NO :	903062
Date Analyzed	03/23/2009	Lab Sample ID :	BLK108777
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	13:26

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108777	BKS108777	A62439.D	14:18
BKSD108777	BKSD108777	A62445.D	16:20
OUI-16GW01-0309	903062-006-016-1/3	A62457.D	20:25
OUI-16GW16-0309	903062-003-007-1/3	A62451.D	18:22
OUI-EB-031009	903062-001-001-1/3	A62447.D	17:01
OUI-FB-031009	903062-002-004-1/3	A62449.D	17:41
OUI-MW50-0309	903062-005-013-1/3	A62455.D	19:44
OUI-MW51-0309	903062-004-010-1/3	A62453.D	19:03
OUI-TB01-0309	903062-007-019-1/3	A62459.D	21:05

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903062

Lab File ID: A62433.D BFB Injection Date : 03/23/2009 BFB Injection Time : 11:28

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.4	
75	30.0 - 60.0% of mass 95	53.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.1	
173	Less than 2.0% of mass 174	1.3	(1.4)1
174	50.0 - 120.0% of mass 95	87.4	
175	5.0 - 9.0% of mass 174	6.8	(7.8)1
176	95.0 - 101.0% of mass 174	84.8	(97.0)1
177	5.0 - 9.0% of mass 176	6.0	(7.1)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62435.D	03/23/2009	12:32
2	BLK108777	BLK108777	A62437.D	03/23/2009	13:26
3	BKS108777	BKS108777	A62439.D	03/23/2009	14:18
4	BKSD108777	BKSD108777	A62445.D	03/23/2009	16:20
5	OUI-EB-031009	903062-001-001-1/3	A62447.D	03/23/2009	17:01
6	OUI-FB-031009	903062-002-004-1/3	A62449.D	03/23/2009	17:41
7	OUI-16GW16-0309	903062-003-007-1/3	A62451.D	03/23/2009	18:22
8	OUI-MW51-0309	903062-004-010-1/3	A62453.D	03/23/2009	19:03
9	OUI-MW50-0309	903062-005-013-1/3	A62455.D	03/23/2009	19:44
10	OUI-16GW01-0309	903062-006-016-1/3	A62457.D	03/23/2009	20:25
11	OUI-TB01-0309	903062-007-019-1/3	A62459.D	03/23/2009	21:05

GPL

Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903062

Lab File ID: A62435.D Date Analyzed: 03/23/2009 Time Analyzed: 12:32

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	492839	04.68	584106	07.78	563188	04.56
UPPER LIMIT	985678	05.18	1168212	08.28	1126376	05.06
LOWER LIMIT	246420	04.18	292053	07.28	281594	04.06
Client Sample						
BKS108777	438839	04.68	521407	07.78	493685	04.56
BKSD108777	404890	04.68	484072	07.78	456708	04.55
BLK108777	423226	04.68	486520	07.78	493162	04.56
OUI-16GW01-0309	349573	04.68	415519	07.78	390310	04.55
OUI-16GW16-0309	349400	04.68	417331	07.78	402497	04.55
OUI-EB-031009	403814	04.68	450658	07.78	449090	04.55
OUI-FB-031009	363708	04.68	423540	07.78	415844	04.55
OUI-MW50-0309	349711	04.68	414135	07.78	402875	04.55
OUI-MW51-0309	349547	04.68	414289	07.78	399295	04.55
OUI-TB01-0309	337305	04.68	408896	07.78	391906	04.55

14DFBZ = 1,4-Difluorobenzen

CLBZD5 = Chlorobenzene-d

FBZ = Fluorobenzen

AREA UPPER LIMIT = +100% of internal standard ar

AREA LOWER LIMIT = -50% of internal standard are

RT UPPER LIMIT = +.50 minutes of internal standard RT

RT LOWER LIMIT = -.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asteris

* Values outside of contract required QC limits

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108777
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	57	
71-55-6	1,1,1-Trichloroethane	57	
79-34-5	1,1,2,2-Tetrachloroethane	50	
79-00-5	1,1,2-Trichloroethane	61	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	50	
87-61-6	1,2,3-Trichlorobenzene	61	
96-18-4	1,2,3-Trichloropropane	50	
120-82-1	1,2,4-Trichlorobenzene	60	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	50	
95-50-1	1,2-Dichlorobenzene	59	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	50	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	60	
142-28-9	1,3-Dichloropropane	50	
106-46-7	1,4-Dichlorobenzene	60	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	96	
95-49-8	2-Chlorotoluene	56	
591-78-6	2-Hexanone	91	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	92	
67-64-1	Acetone	92	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108777
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	62	
75-27-4	Bromodichloromethane	59	
75-25-2	Bromoform	58	
74-83-9	Bromomethane	120	
75-15-0	Carbon Disulfide	46	
56-23-5	Carbon Tetrachloride	62	
108-90-7	Chlorobenzene	52	
75-00-3	Chloroethane	86	
67-66-3	Chloroform	53	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	50	
124-48-1	Dibromochloromethane	53	
74-95-3	Dibromomethane	51	
75-71-8	Dichlorodifluoromethane	57	
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	64	
87-68-3	Hexachlorobutadiene	65	
98-82-8	Isopropylbenzene	53	
79-20-9	Methyl Acetate	44	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	48	
91-20-3	Naphthalene	55	
135-98-8	Sec-Butylbenzene	55	
100-42-5	Styrene	51	
127-18-4	Tetrachloroethylene	61	
108-88-3	Toluene	63	
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	64	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108777
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	43	
75-01-4	Vinyl Chloride	44	
156-59-2	cis-1,2-Dichloroethene	48	
10061-01-5	cis-1,3-Dichloropropene	61	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	53	
103-65-1	n-Propylbenzene	52	
95-47-6	o-Xylene	51	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	59	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108777
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	56	
71-55-6	1,1,1-Trichloroethane	56	
79-34-5	1,1,2,2-Tetrachloroethane	53	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	56	
75-35-4	1,1-Dichloroethene	50	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	60	
96-18-4	1,2,3-Trichloropropane	56	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	53	
96-12-8	1,2-Dibromo-3-Chloropropane	57	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	50	
78-87-5	1,2-Dichloropropane	51	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	60	
142-28-9	1,3-Dichloropropane	52	
106-46-7	1,4-Dichlorobenzene	60	
594-20-7	2,2-Dichloropropane	52	
78-93-3	2-Butanone	99	
95-49-8	2-Chlorotoluene	55	
591-78-6	2-Hexanone	96	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	98	
67-64-1	Acetone	86	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108777
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	65	
75-27-4	Bromodichloromethane	49	
75-25-2	Bromoform	60	
74-83-9	Bromomethane	140	
75-15-0	Carbon Disulfide	44	
56-23-5	Carbon Tetrachloride	61	
108-90-7	Chlorobenzene	53	
75-00-3	Chloroethane	90	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	48	
110-82-7	Cyclohexane	51	
124-48-1	Dibromochloromethane	52	
74-95-3	Dibromomethane	50	
75-71-8	Dichlorodifluoromethane	50	
100-41-4	Ethylbenzene	49	
106-93-4	Ethylene DiBromide	50	
76-13-1	Freon 113	61	
87-68-3	Hexachlorobutadiene	59	
98-82-8	Isopropylbenzene	53	
79-20-9	Methyl Acetate	56	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	45	
91-20-3	Naphthalene	60	
135-98-8	Sec-Butylbenzene	54	
100-42-5	Styrene	51	
127-18-4	Tetrachloroethylene	58	
108-88-3	Toluene	63	
79-01-6	Trichloroethene	48	
75-69-4	Trichlorofluoromethane	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108777
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	42	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	49	
10061-01-5	cis-1,3-Dichloropropene	61	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	51	
103-65-1	n-Propylbenzene	51	
95-47-6	o-Xylene	51	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	58	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	61	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108777
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108777
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108777
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-016-1/3
Sample Volume :	5	Lab File ID :	A62457.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-016-1/3
Sample Volume :	5	Lab File ID :	A62457.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-016-1/3
Sample Volume :	5	Lab File ID :	A62457.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-007-1/3
Sample Volume :	5	Lab File ID :	A62451.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-007-1/3
Sample Volume :	5	Lab File ID :	A62451.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	16	
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	2.6	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	2.3	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-007-1/3
Sample Volume :	5	Lab File ID :	A62451.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-001-1/3
Sample Volume :	5	Lab File ID :	A62447.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-001-1/3
Sample Volume :	5	Lab File ID :	A62447.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-001-1/3
Sample Volume :	5	Lab File ID :	A62447.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-004-1/3
Sample Volume :	5	Lab File ID :	A62449.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-004-1/3
Sample Volume :	5	Lab File ID :	A62449.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-004-1/3
Sample Volume :	5	Lab File ID :	A62449.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-013-1/3
Sample Volume :	5	Lab File ID :	A62455.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-013-1/3
Sample Volume :	5	Lab File ID :	A62455.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-013-1/3
Sample Volume :	5	Lab File ID :	A62455.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-010-1/3
Sample Volume :	5	Lab File ID :	A62453.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-010-1/3
Sample Volume :	5	Lab File ID :	A62453.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-010-1/3
Sample Volume :	5	Lab File ID :	A62453.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-007-019-1/3
Sample Volume :	5	Lab File ID :	A62459.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-007-019-1/3
Sample Volume :	5	Lab File ID :	A62459.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-007-019-1/3
Sample Volume :	5	Lab File ID :	A62459.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	109	0.00
2		Dichlorodifluoromethane	0.089	0.089	0.0	99	0.00
3		Chloromethane	0.174	0.140	19.5	105	0.00
4		Vinyl chloride	0.207	0.170	17.9	88	0.00
5		Bromomethane	0.115	0.360	-213.0#	502#	0.00
6		Chloroethane	0.145	0.168	-15.9	129	0.00
7		Trichlorofluoromethane	0.256	0.272	-6.3	102	0.00
8		Ethyl Ether	0.178	0.159	10.7	92	0.00
9		Freon 113	0.158	0.174	-10.1	115	0.00
10		Acrolein	0.036	0.028	22.2#	86	0.00
11		Tert-Butyl alcohol	0.020	0.018	10.0	74	0.00
12		1,1-Dichloroethene	0.182	0.166	8.8	96	0.00
13		Iodomethane	0.211	0.258	-22.3#	309#	0.00
14		Acetonitrile	0.108	0.153	-41.7#	135	0.00
15		Methylene chloride	0.252	0.207	17.9	100	0.00
16		Trans-1,2-dichloroethene	0.209	0.186	11.0	92	0.00
17		Isopropyl ether	0.812	0.760	6.4	95	0.00
18		1,1-Dichloroethane	0.374	0.376	-0.5	100	0.00
19		Acetone	0.095	0.063	33.7#	75	0.00
20		Methyl Acetate	0.186	0.179	3.8	76	0.00
21		MTBE	0.545	0.548	-0.6	98	0.00
22		Carbon disulfide	0.679	0.519	23.6#	93	0.00
23		Allyl Chloride	0.000	0.000	0.0	133	0.00
24		Acrylonitrile	0.063	0.060	4.8	99	0.00
25		Chloroprene	0.357	0.314	12.0	97	0.00
26	T	n-Heptane	0.183	0.009	95.1#	6#	0.12
27		2,2-Dichloropropane	0.313	0.296	5.4	97	0.00
28		Cis-1,2-dichloroethene	0.253	0.225	11.1	97	0.00
29		1,2-dichloroethene(total)	0.268	0.212	20.9#	95	0.82#
30		Propionitrile	0.031	0.027	12.9	82	0.00
31		Bromochloromethane	0.109	0.123	-12.8	113	0.00
32		Tetrahydrofuran	0.051	0.045	11.8	89	0.00
33		Chloroform	0.426	0.410	3.8	112	0.00
34		Cyclohexane	0.392	0.323	17.6	98	0.00
35		1,1,1-Trichloroethane	0.318	0.323	-1.6	105	0.00
36		Carbon tetrachloride	0.272	0.288	-5.9	108	0.00
37		Methacrylonitrile	0.170	0.156	8.2	97	0.00
38		Methylcyclohexane	0.338	0.328	3.0	107	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	61	-0.18
40	SS	1,2-Dichloroethane-d4	0.266	0.275	-3.4	113	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	117	0.00
42		2-Butanone	0.163	0.124	23.9#	78	0.00
43		1,1-Dichloropropene	0.339	0.308	9.1	97	0.00
44		Vinyl Acetate	0.381	0.271	28.9#	79	0.00
45		Benzene	1.058	0.947	10.5	99	0.00
46		1,2-Dichloroethane	0.332	0.293	11.7	95	0.00
47		Trichloroethene	0.272	0.233	14.3	97	0.00
48		1,2-Dichloropropane	0.271	0.247	8.9	96	0.00
49		Methyl methacrylate	0.196	0.188	4.1	109	0.00
50		Dibromomethane	0.167	0.174	-4.2	115	0.00
51		Bromodichloromethane	0.354	0.394	-11.3	122	0.00
52		2-Chloroethylvinyl ether	0.108	0.045	58.3#	32#	0.00
53		Cis-1,3-dichloropropene	0.427	0.468	-9.6	116	0.00
54	SS	Toluene-d8	1.159	1.393	-20.2#	140	0.00
55		Toluene	0.694	0.783	-12.8	123	0.00
56		Trans-1,3-dichloropropene	0.387	0.411	-6.2	111	0.00
57		Ethyl methacrylate	0.347	0.384	-10.7	123	0.00
58		1,1,2-Trichloroethane	0.208	0.232	-11.5	123	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	146	0.00
60		4-Methyl-2-pentanone	0.292	0.238	18.5	108	0.00
61		2-Hexanone	0.210	0.168	20.0	103	0.00
62		Tetrachloroethene	0.288	0.307	-6.6	146	0.00
63		1,3-Dichloropropane	0.416	0.385	7.5	124	0.00
64		Dibromochloromethane	0.301	0.293	2.7	132	0.00
65		1,2-Dibromoethane	0.257	0.226	12.1	122	0.00
66		1-Chlorohexane	0.432	0.369	14.6	123	0.00
67		Chlorobenzene	0.848	0.814	4.0	131	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.304	0.0	135	0.00
69		Ethylbenzene	1.451	1.324	8.8	128	0.00
70		m,p-Xylene	0.570	0.557	2.3	131	0.00
71		o-Xylene	0.578	0.535	7.4	130	0.00
72		Xylene (Total)	0.586	0.551	6.0	131	0.00
73		Styrene	0.960	0.902	6.0	128	0.00
74		Bromoform	0.187	0.189	-1.1	130	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.178	4.1	132	0.00
76	SS	4-Bromofluorobenzene	0.471	0.478	-1.5	146	0.00
77		Bromobenzene	0.336	0.355	-5.7	145	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.293	11.2	120	0.00
79		1,2,3-Trichloropropane	0.098	0.092	6.1	128	0.00
80		n-Propylbenzene	1.700	1.597	6.1	130	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.057	31.3#	76	0.00
82		2-Chlorotoluene	0.361	0.359	0.6	136	0.00
83		4-Chlorotoluene	0.374	0.380	-1.6	142	0.00
84		1,3,5-Trimethylbenzene	1.207	1.154	4.4	131	0.00
85		Tert-butylbenzene	1.049	1.054	-0.5	137	0.00
86		Pentachloroethane	0.000	0.000	0.0	139	0.00
87		1,2,4-Trimethylbenzene	1.254	1.211	3.4	134	0.00
88		Sec-Butylbenzene	1.607	1.579	1.7	133	0.00
89		1,3-Dichlorobenzene	0.706	0.739	-4.7	145	0.00
90		4-Isopropyltoluene	1.367	1.412	-3.3	136	0.00
91		1,4-Dichlorobenzene	0.708	0.738	-4.2	143	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.514	-11.3	161#	0.00
93		1,2-Dichlorobenzene	0.674	0.680	-0.9	144	0.00
94		n-Butylbenzene	1.349	1.235	8.5	129	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.048	15.8	114	0.00
96		1,2,4-Trichlorobenzene	0.409	0.418	-2.2	146	0.00
97		Hexachlorobutadiene	0.190	0.203	-6.8	150	0.00
98		Naphthalene	0.975	0.927	4.9	122	0.00
99		1,2,3-Trichlorobenzene	0.342	0.358	-4.7	144	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : General Physics Corp.

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903020

Lab File ID: A62205.D BFB Injection Date : 03/10/2009 BFB Injection Time : 07:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.6	(.8)1
174	50.0 - 120.0% of mass 95	79.6	
175	5.0 - 9.0% of mass 174	5.9	(7.4)1
176	95.0 - 101.0% of mass 174	77.5	(97.3)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL01	CAL01	A62207.D	03/10/2009	08:49
2	CAL05	CAL05	A62209.D	03/10/2009	09:30
3	CAL20	CAL20	A62211.D	03/10/2009	11:03
4	CAL50	CAL50	A62213.D	03/10/2009	11:44
5	CAL100	CAL100	A62215.D	03/10/2009	12:49
6	CAL200	CAL200	A62219.D	03/10/2009	14:22
7	BLK108667	BLK108667	A62221.D	03/10/2009	15:35
8	BKS108667	BKS108667	A62223.D	03/10/2009	16:25
9	TB-030409	903020-001-001-1/2	A62225.D	03/10/2009	17:06
10	EFFg-030409	903020-004-003-1/3	A62227.D	03/10/2009	17:46
11	ACU2-030409	903020-005-006-1/3	A62229.D	03/10/2009	18:27
12	ACU1-030409	903020-006-009-1/3	A62231.D	03/10/2009	19:08

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 08:06:42 2009
Response Via : Initial Calibration

Calibration Files
1 =A62207.D 5 =A62209.D 20 =A62211.D 50 =A62213.D 100 =A62215.D
200 =A62219.D

		Compound	1	5	20	50	100	200	Avg	%R SD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluo...	0.067	0.085	0.103	0.098		0.090	0.089	15.40
3)		Chloromethane	0.188	0.181	0.173	0.145	0.159	0.199	0.174	11.27
4)		Vinyl chloride	0.220	0.190	0.192	0.211	0.214	0.214	0.207	6.19
5)		Bromomethane	0.218	0.069	0.099	0.078	0.114		0.115	~~51.60~~ r^2=0.995
6)		Chloroethane		0.144	0.142	0.142	0.141	0.157	0.145	4.69
7)		Trichlorofluor...	0.154	0.245	0.282	0.290	0.307		0.256	~~23.94~~ r^2=0.999
8)		Ethyl Ether	0.163	0.157	0.165	0.189	0.188	0.206	0.178	10.84
9)		Freon 113	0.153	0.135	0.174	0.165		0.165	0.158	9.58
10)		Acrolein		0.037	0.031	0.036	0.035	0.040	0.036	9.22
11)		Tert-Butyl alc...	0.016	0.021	0.018	0.026	0.021		0.020	18.36
12)		1,1-Dichloroet...	0.177	0.162	0.167	0.188	0.193	0.202	0.182	8.55
13)		Iodomethane	0.457	0.111	0.200	0.091	0.247	0.161	0.211	63.20
14)		Acetonitrile	0.079	0.075	0.093	0.124	0.139	0.138	0.108	~~26.99~~ r^2=0.999
15)		Methylene chlo...	0.375	0.222	0.213	0.224	0.235	0.243	0.252	~~24.26~~ r^2=0.999
16)		Trans-1,2-dich...	0.209	0.186	0.197	0.221	0.230		0.209	8.57
17)		Isopropyl ether	0.794	0.717	0.779	0.874	0.894		0.812	8.93
18)		1,1-Dichloroet...	0.325	0.334	0.368	0.411	0.431		0.374	12.44
19)		Acetone	0.151	0.086	0.070	0.091	0.084	0.086	0.095	~~30.23~~ r^2=0.999
20)		Methyl Acetate	0.225	0.217	0.185	0.256		0.048	0.186	~~43.60~~ r^2=0.973
21)		MTBE	0.473	0.510	0.527	0.610	0.604		0.545	11.02
22)		Carbon disulfide	1.024	0.568	0.589	0.610	0.643	0.638	0.679	~~25.30~~ r^2=0.999
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile		0.059	0.058	0.067	0.062	0.071	0.063	8.81
25)		Chloroprene	0.352	0.318	0.337	0.354	0.398	0.383	0.357	8.23
26)	T	n-Heptane	0.229	0.156	0.188	0.173	0.184	0.166	0.183	14.14
27)		2,2-Dichloropr...	0.284	0.268		0.334	0.340	0.338	0.313	10.86
28)		Cis-1,2-dichlo...	0.280	0.214		0.253	0.263	0.256	0.253	9.47
29)		1,2-dichloroet...	0.366		0.223	0.242	0.248	0.260	0.268	21.04
30)		Propionitrile	0.028	0.029	0.028	0.035	0.031	0.036	0.031	11.14
31)		Bromochloromet...	0.088	0.091	0.107	0.119	0.122	0.129	0.109	15.51
32)		Tetrahydrofuran	0.047	0.049	0.049	0.055	0.049	0.059	0.051	9.52
33)		Chloroform	0.515	0.347	0.353	0.399	0.446	0.498	0.426	16.82
34)		Cyclohexane	0.560	0.302	0.371	0.358	0.395	0.363	0.392	~~22.17~~ r^2=0.998
35)		1,1,1-Trichlor...	0.289	0.274	0.307	0.333	0.343	0.363	0.318	10.68
36)		Carbon tetrach...	0.218	0.240	0.265	0.290	0.310	0.313	0.272	14.18
37)		Methacrylonitrile	0.141		0.144	0.175	0.176	0.213	0.170	17.12
38)		Methylcyclohexane	0.360	0.292	0.354	0.333	0.373	0.318	0.338	8.82
39)		Isobutyl Alcohol	0.011	0.014	0.017	0.016		0.015	0.015	15.42
40)	SS	1,2-Dichloroet...	0.258	0.262	0.263	0.265	0.265	0.282	0.266	3.13
41)		1,4-Difluorobenzene	----------ISTD----------							
42)		2-Butanone	0.150	0.152	0.146	0.185	0.166	0.178	0.163	9.84

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

43)		1,1-Dichloropr...	0.270	0.305	0.331	0.370	0.377	0.381	0.339	13.34
44)		Vinyl Acetate	0.369	0.357		0.401	0.394	0.386	0.381	4.81
45)		Benzene	0.924	0.932	1.027	1.118	1.156	1.192	1.058	10.86
46)		1,2-Dichloroet...	0.277	0.295	0.324	0.359	0.360	0.376	0.332	12.02
47)		Trichloroethene	0.269	0.243	0.263	0.278	0.289	0.289	0.272	6.46
48)		1,2-Dichloropr...	0.226	0.230	0.263	0.298	0.305	0.305	0.271	13.65
49)		Methyl methacr...	0.215	0.205	0.171	0.201	0.185	0.202	0.196	8.01
50)		Dibromomethane	0.171	0.151	0.147	0.176	0.172	0.184	0.167	8.78
51)		Bromodichlorom...	0.338	0.315	0.334	0.376	0.376	0.385	0.354	8.07
52)		2-Chloroethylv...	0.027	0.143	0.149	0.165	0.057	0.106	0.108	51.45
53)		Cis-1,3-dichlo...	0.340	0.361		0.469	0.471	0.491	0.427	16.46
54)	SS	Toluene-d8	1.125	1.133	1.141	1.158	1.177	1.218	1.159	2.99
55)		Toluene	0.589	0.599	0.664	0.740	0.763	0.807	0.694	13.02
56)		Trans-1,3-dich...	0.273	0.355		0.433	0.417	0.455	0.387	18.95
57)		Ethyl methacry...	0.347	0.304	0.324	0.365	0.358	0.385	0.347	8.47
58)		1,1,2-Trichlor...	0.183	0.186		0.220	0.217	0.234	0.208	10.71
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)		4-Methyl-2-pen...	0.272	0.284	0.284	0.321	0.289	0.300	0.292	5.85
61)		2-Hexanone	0.175	0.219	0.196	0.238	0.214	0.220	0.210	10.29
62)		Tetrachloroethene	0.228	0.256	0.285	0.305	0.324	0.332	0.288	13.99
63)		1,3-Dichloropr...	0.361	0.399	0.395	0.451	0.441	0.448	0.416	8.74
64)		Dibromochlorom...	0.245	0.291	0.291	0.322	0.324	0.334	0.301	10.93
65)		1,2-Dibromoethane	0.246	0.242	0.248	0.270	0.266	0.271	0.257	5.13
66)		1-Chlorohexane	0.470	0.400	0.409	0.437	0.441	0.437	0.432	5.79
67)		Chlorobenzene	0.748	0.753	0.821	0.906	0.935	0.925	0.848	10.10
68)		1,1,1,2-Tetrac...	0.248	0.259	0.292	0.328	0.342	0.354	0.304	14.65
69)		Ethylbenzene	1.318	1.300	1.394	1.507	1.582	1.607	1.451	9.15
70)		m,p-Xylene	0.510	0.513	0.560	0.618	0.648		0.570	10.86
71)		o-Xylene	0.551	0.505	0.566	0.601	0.624	0.620	0.578	7.95
72)		Xylene (Total)	0.524	0.511	0.564	0.613	0.641	0.662	0.586	10.68
73)		Styrene	0.827	0.857	0.930	1.024	1.062	1.060	0.960	10.80
74)		Bromoform	0.149	0.175	0.176	0.212	0.200	0.209	0.187	13.15
75)		Isopropylbenzene	1.052	1.108	1.196	1.299	1.367	1.346	1.228	10.60
76)	SS	4-Bromofluorob...	0.468	0.466	0.474	0.477	0.477	0.465	0.471	1.16
77)		Bromobenzene	0.300	0.296	0.326	0.356	0.370	0.370	0.336	10.07
78)		1,1,2,2-Tetrac...	0.317	0.314	0.308	0.356	0.339	0.347	0.330	6.00
79)		1,2,3-Trichlor...	0.091	0.103	0.091	0.105	0.098	0.101	0.098	6.04
80)		n-Propylbenzene	1.522	1.538	1.655	1.792	1.853	1.840	1.700	8.79
81)		Trans-1,4-dich...	0.066	0.099	0.064	0.109	0.074	0.088	0.083	~~21.93~~ M2=0.087
82)		2-Chlorotoluene	0.338	0.323	0.352	0.384	0.388	0.378	0.361	7.43
83)		4-Chlorotoluene	0.354	0.335	0.356	0.391	0.407	0.403	0.374	7.96
84)		1,3,5-Trimethy...	1.021	1.048	1.163	1.281	1.369	1.359	1.207	12.65
85)		Tert-butylbenzene	0.855	0.919	1.011	1.122	1.196	1.189	1.049	13.66
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.051	1.091	1.184	1.318	1.418	1.460	1.254	13.63
88)		Sec-Butylbenzene	1.363	1.379	1.554	1.726	1.836	1.785	1.607	12.83
89)		1,3-Dichlorobe...	0.581	0.583	0.663	0.740	0.804	0.864	0.706	16.56
90)		4-Isopropyltol...	1.162	1.185	1.338	1.507	1.641		1.367	15.11
91)		1,4-Dichlorobe...	0.581	0.624	0.679	0.749	0.800	0.815	0.708	13.52
92)	SS	1,2-Dichlorobe...	0.439	0.440	0.457	0.465	0.487	0.486	0.462	4.56
93)		1,2-Dichlorobe...	0.614	0.556		0.688	0.756	0.756	0.674	13.10
94)		n-Butylbenzene	1.300	1.191	1.253	1.396	1.500	1.454	1.349	8.94
95)		1,2-Dibromo-3-...	0.051	0.056	0.051	0.062	0.057	0.063	0.057	9.21
96)		1,2,4-Trichlor...	0.405	0.335	0.363	0.417	0.452	0.481	0.409	13.24

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

97)	Hexachlorobuta...	0.192	0.145	0.170	0.197	0.215	0.224	0.190	15.45
98)	Naphthalene	0.824	0.898	0.877	1.102	1.033	1.113	0.975	12.73
99)	1,2,3-Trichlor...	0.323	0.289	0.308	0.362	0.371	0.400	0.342	12.35

(#) = Out of Range

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903062

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OUI-MW50-0309	19.2	19.0	1.42	15%
Nitrite-N	E300.0	OUI-MW50-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OUI-MW50-0309	BQL	BQL	N/C	15%

RPD - 0 out of 3 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OUI-MW50-0309	19.2	26.9	10.0	76.7*	90 - 110%
Nitrite-N	E300.0	OUI-MW50-0309	0.00	1.17	1.00	117*	90 - 110%
Nitrate-N	E300.0	OUI-MW50-0309	0.00	1.07	1.00	107	90 - 110%

Recovery - 2 out of 3 outside control limits

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC | Client: CH2M Hill

Work-Order # 903062 | STD Solution ID: 45325/45405

3/11/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVL	Chloride	1.25	1.37	110	90 - 110%
	Nitrite-N	1.25	1.30	104	90 - 110%
	Nitrate-N	1.25	1.26	100	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	Chloride	1.25	1.37	109	90 - 110%
	Nitrite-N	1.25	1.31	105	90 - 110%
	Nitrate-N	1.25	1.25	100	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	Chloride	1.25	1.37	110	90 - 110%
	Nitrite-N	1.25	1.24	99.4	90 - 110%
	Nitrate-N	1.25	1.35	108	90 - 110%

3/25/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	Chloride	1.25	1.18	94.3	90 - 110%
	Nitrite-N	1.25	1.19	94.9	90 - 110%
	Nitrate-N	1.25	1.18	94.5	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL3	Chloride	1.25	1.17	93.8	90 - 110%
	Nitrite-N	1.25	1.18	94.6	90 - 110%
	Nitrate-N	1.25	1.19	95.0	90 - 110%

3/11/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVH	Chloride	20.0	21.2	106	90 - 110%
	Nitrate-N	20.0	20.7	104	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	Chloride	20.0	20.7	104	90 - 110%
	Nitrate-N	20.0	20.6	103	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	Chloride	20.0	20.7	104	90 - 110%
	Nitrate-N	20.0	20.6	103	90 - 110%

3/25/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	Chloride	10.0	9.47	94.7	90 - 110%
	Nitrate-N	10.0	9.87	98.7	90 - 110%
	Sulfate	10.0	9.60	96.0	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	Chloride	10.0	9.52	95.2	90 - 110%
	Nitrate-N	10.0	9.84	98.4	90 - 110%
	Sulfate	10.0	9.46	94.6	90 - 110%

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #44805/#44035

LCSL (3/11/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	154	97.3	85 - 115%
Nitrite-N	732	704	96.2	85 - 115%
Nitrate-N	187	174	93.2	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/11/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	152	96.3	85 - 115%
Nitrate-N	187	181	96.7	85 - 115%

Recovery - 0 out of 2 outside Control Limits

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-039-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.4	
14797-55-8	Nitrate	0.15	
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-036-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	15	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-034-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	3.9	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-035-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	0.10	U
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-038-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-038-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	19	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-038-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	27	
14797-55-8	Nitrate	1.2	
7727-37-9	Nitrite	1.1	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-037-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	13	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

Method Report - 080917L-300-0

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.63 min	1.00 min	
Chloride	6.40 min	1.00 min	
Nitrite-N	8.27 min	1.00 min	
Bromide	11.13 min	1.00 min	
Nitrate-N	13.37 min	1.00 min	
Phosphate-P	16.77 min	1.00 min	
Sulfate	18.97 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.63 min	0	0
Chloride	6.40 min	0	0
Nitrite-N	8.27 min	0	0
Bromide	11.13 min	0	0
Nitrate-N	13.37 min	0	0
Phosphate-P	16.77 min	0	0
Sulfate	18.97 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.63 min	Linear	Ignore	Area		0.00
Chloride	6.40 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.27 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.13 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	13.37 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.77 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.97 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	4957.2
2	0.10	109547
3	0.25	277132
4	0.50	557311
5	1.00	1.24129e+006
6	2.50	3.20076e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.40 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	77115.9
3	0.25	197410
4	0.50	408470
5	1.00	836176
6	2.50	2.12844e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.27 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	13027
2	0.10	159558
3	0.25	359105
4	0.50	820570
5	1.00	1.74342e+006
6	2.50	4.38464e+006

CD20 Component = Bromide Levels Table

Retention Time : 11.13 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	38326.6
3	0.25	88554.3
4	0.50	165498
5	1.00	356395
6	2.50	912041

CD20 Component = Nitrate-N Levels Table

Retention Time : 13.37 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	205502
3	0.25	506529
4	0.50	970676
5	1.00	2.16507e+006
6	2.50	6.05721e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7303.4
2	0.10	67439.6
3	0.25	165945
4	0.50	353067
5	1.00	734622
6	2.50	1.93771e+006

CD20 Component = Sulfate Levels Table

Retention Time : 18.97 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	53956.6
3	0.25	139751
4	0.50	274835
5	1.00	612643
6	2.50	1.52046e+006

CD20 XY Data Parameters

Calibration Update Report

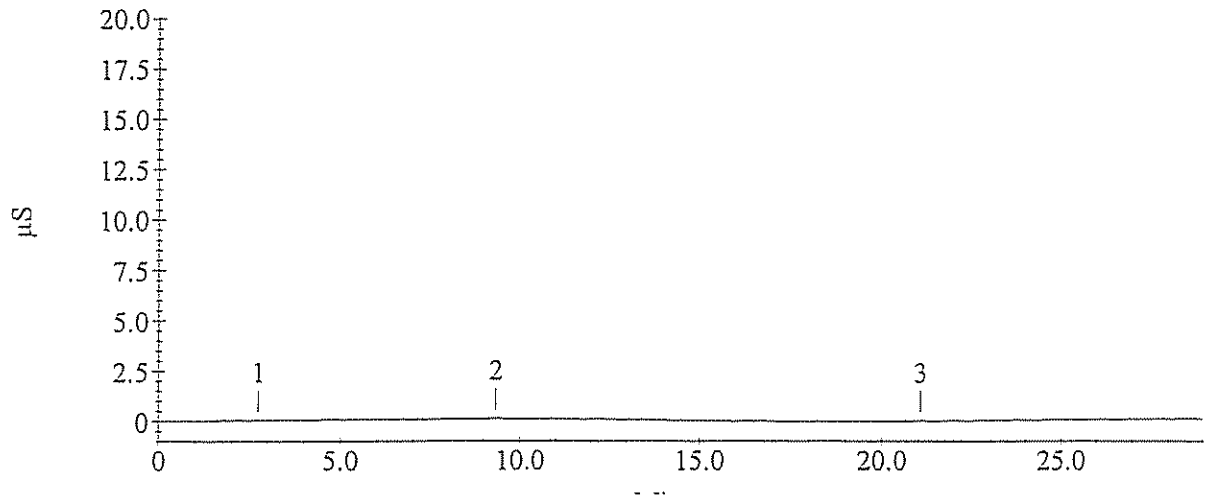
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\080917\080917__003.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:21:51 PM
Calibration Date : 9/18/08 10:53:59 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride Chloride	2.73	12030	4957	4957
2	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	9.33	10214	13027	13027

STD 1 - BLK



Calibration Update Report

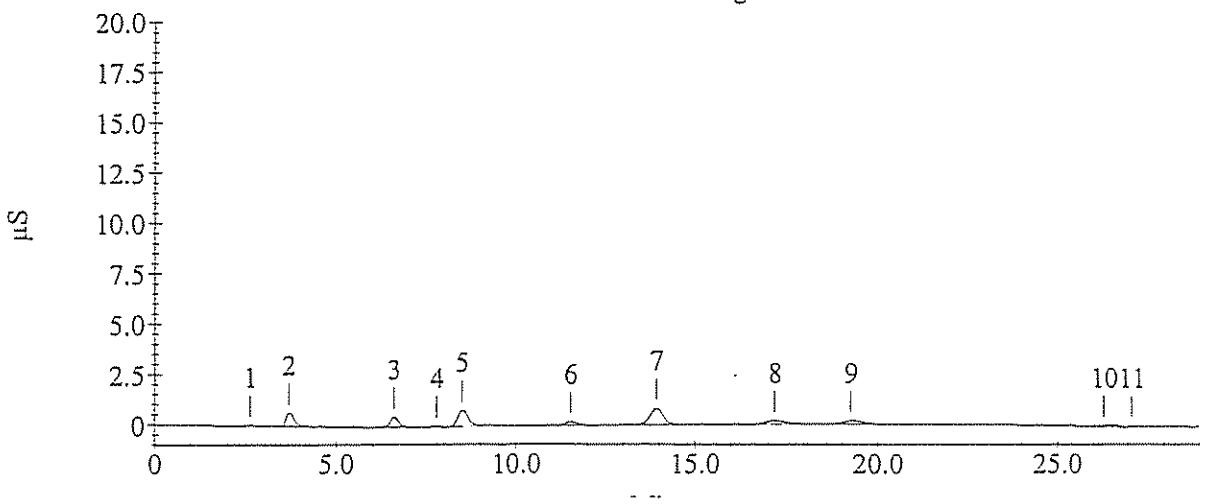
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__004.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:54:07 PM
Calibration Date : 9/18/08 10:54:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.70	127699	109547	109547
3	Chloride	6.60	79506	77116	77116
5	Nitrite-N	8.50	165770	159558	159558
6	Bromide	11.53	36476	38327	38327
7	Nitrate-N	13.93	210099	205502	205502
8	Phosphate-P	17.20	57656	67440	67440
9	Sulfate	19.27	29056	53957	53957

STD 2 - 0.10 mg/L



Calibration Update Report

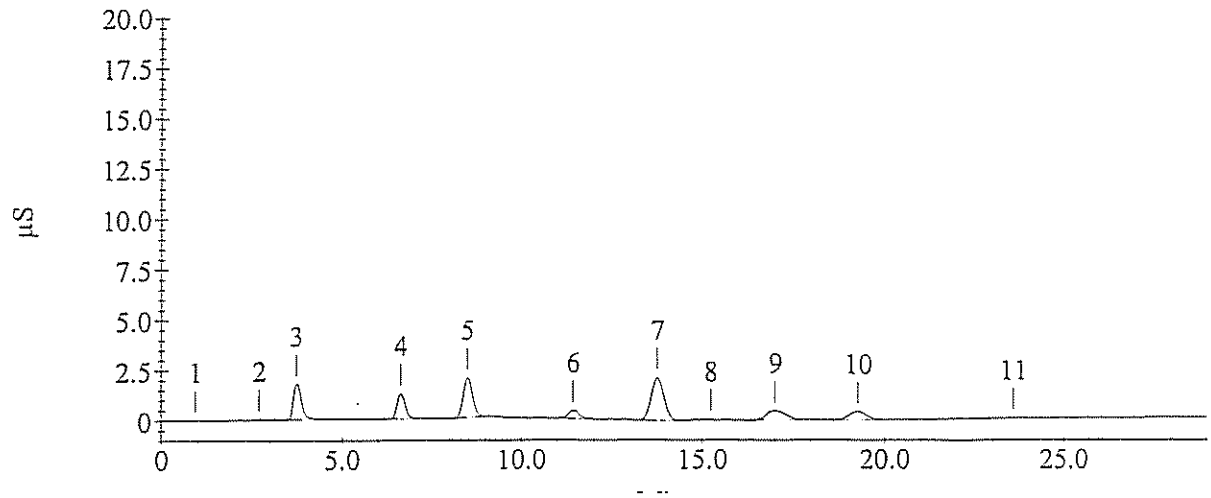
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__005.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:26:23 PM
Calibration Date : 9/18/08 10:55:25 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.73	321091	277132	277132
4	Chloride	6.63	234107	197410	197410
5	Nitrite-N	8.50	439503	359105	359105
6	Bromide	11.43	91211	88554	88554
7	Nitrate-N	13.77	544593	506530	506530
9	Phosphate-P	17.00	161886	165945	165945
10	Sulfate	19.27	150013	139751	139751

STD 3 - 0.25 mg/L



Calibration Update Report

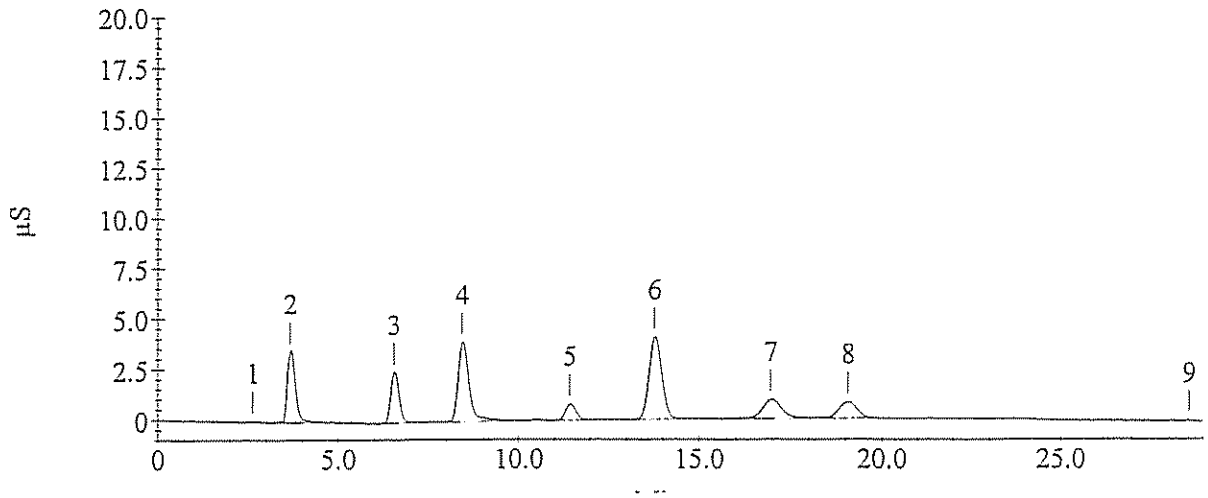
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__006.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:58:39 PM
Calibration Date : 9/18/08 10:55:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	652331	557311	557311
3	Chloride	6.53	443570	408470	408470
4	Nitrite-N	8.43	856511	820570	820570
5	Bromide	11.43	176794	165498	165498
6	Nitrate-N	13.77	1117440	970676	970676
7	Phosphate-P	16.97	364199	353067	353067
8	Sulfate	19.07	317565	274835	274835

STD 4 - 0.50 mg/L



Calibration Update Report

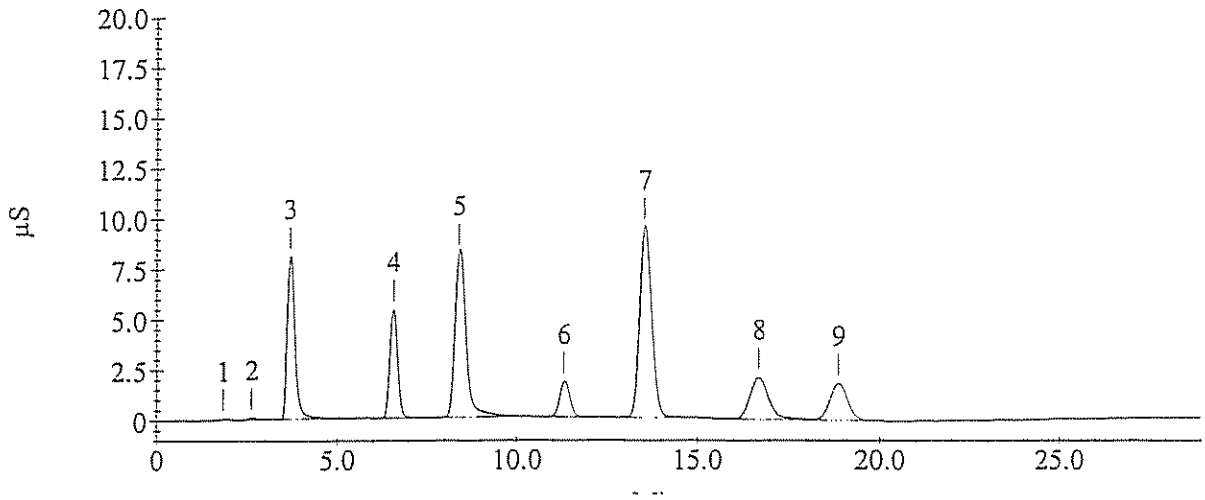
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__007.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 5:30:56 PM
Calibration Date : 9/18/08 10:56:16 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	1414952	1241286	1241286
4	Chloride	6.57	945973	836176	836176
5	Nitrite-N	8.40	1867081	1743424	1743424
6	Bromide	11.30	378829	356395	356395
7	Nitrate-N	13.53	2350504	2165069	2165069
8	Phosphate-P	16.70	766176	734622	734622
9	Sulfate	18.87	605591	612643	612643

STD 5 - 1.00 mg/L



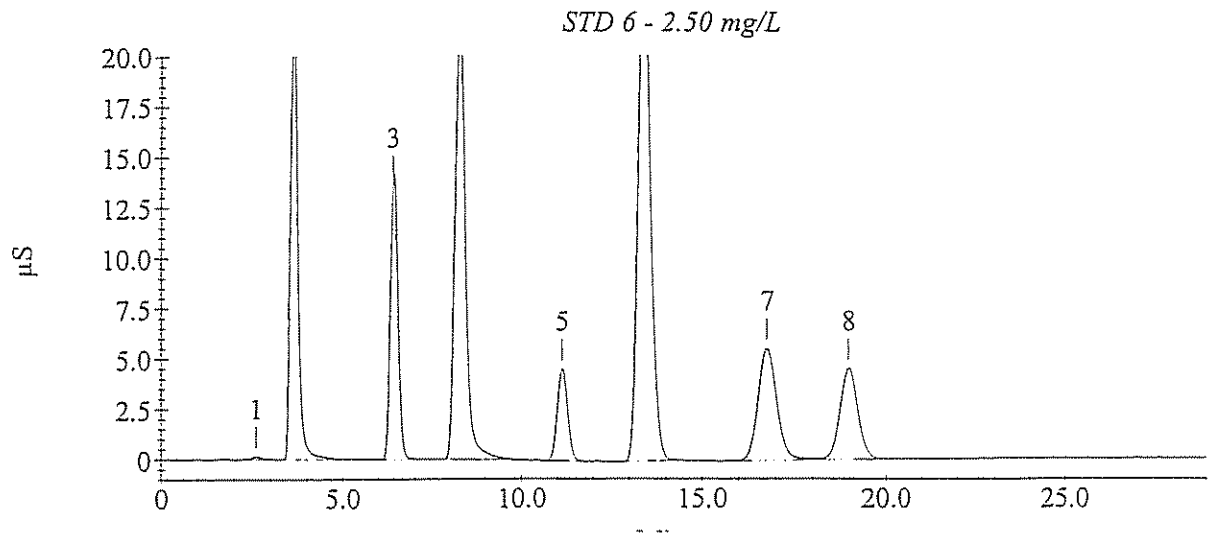
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__008.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:03:10 PM
Calibration Date : 9/18/08 10:56:45 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.63	3393532	3201114	3201114
3	Chloride	6.40	2250125	2128443	2128443
4	Nitrite-N	8.27	4631633	4384638	4384638
5	Bromide	11.13	897545	912041	912041
6	Nitrate-N	13.37	6210895	6057211	6057211
7	Phosphate-P	16.77	2064462	1937708	1937708
8	Sulfate	18.97	1545001	1520461	1520461



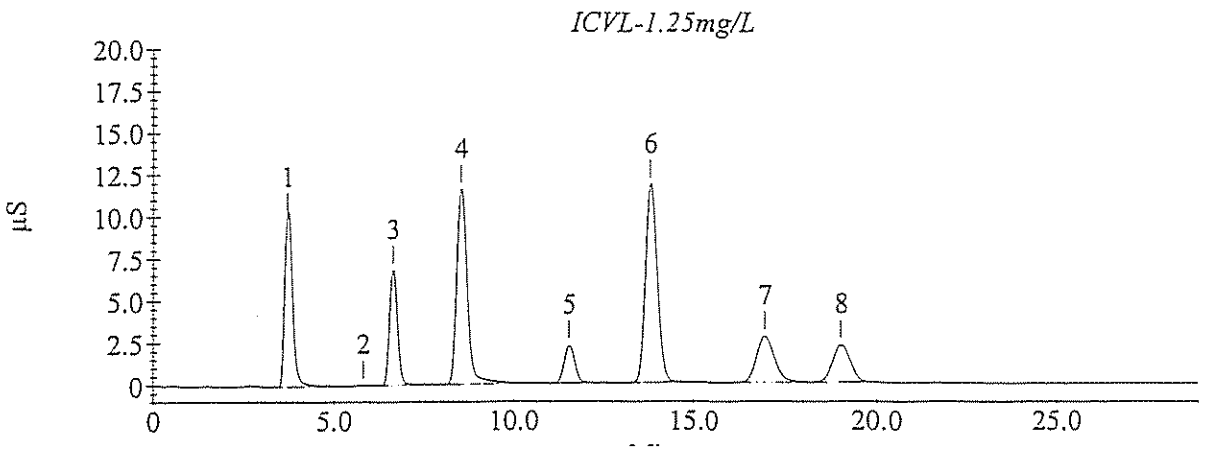
Sample Analysis Report

Sample Name : ICVL-1.25mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 9/17/08 9:49:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	1.272	1599310	100086
3	Chloride	6.63	1.281	1081600	67848
4	Nitrite-N	8.53	1.342	2332375	115172
5	Bromide	11.53	1.266	457280	22107
6	Nitrate-N	13.80	1.167	2714120	117215
7	Phosphate-P	16.97	1.231	934494	27173
8	Sulfate	19.03	1.214	732044	22175



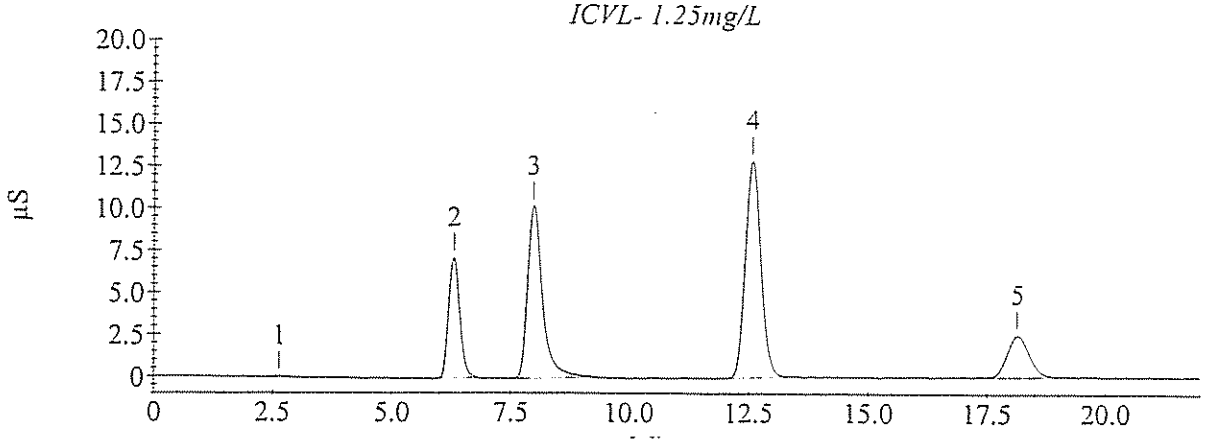
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__002.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 1:14:45 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.63	0.048	9995	524
2	Chloride	6.30	1.373	1160782	71146
3	Nitrite-N Bromide	7.97	1.300	2256363	101838
4	Nitrate-N Phosphate-P	12.57	1.256	2933389	128252
5	Sulfate	18.13	1.354	817874	24934



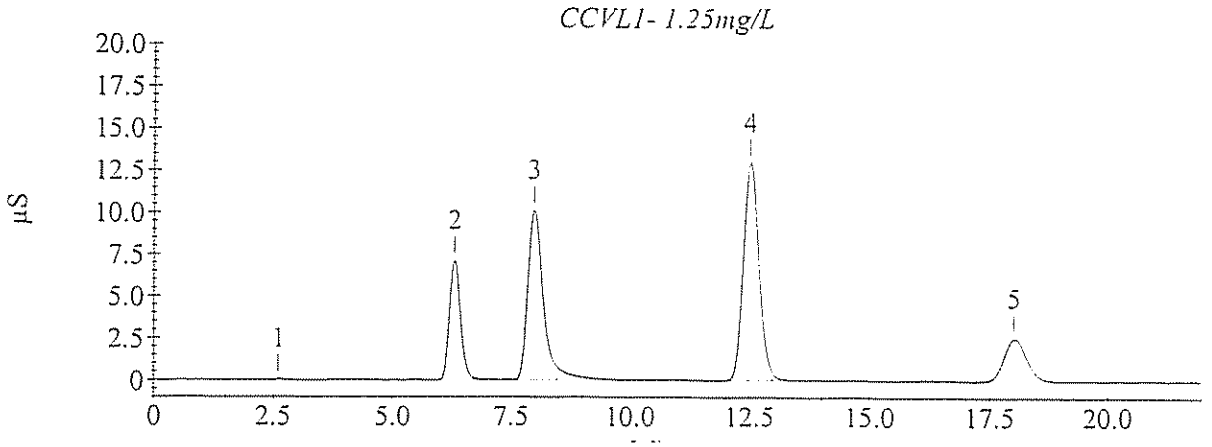
Sample Analysis Report

Sample Name : CCVL1- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 6:41:32 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	9683	650
2	Chloride	6.30	1.368	1156382	70493
3	Nitrite-N Bromide	7.97	1.307	2269500	100373
4	Nitrate-N Phosphate-P	12.50	1.253	2925749	128596
5	Sulfate	18.00	1.351	816097	24918



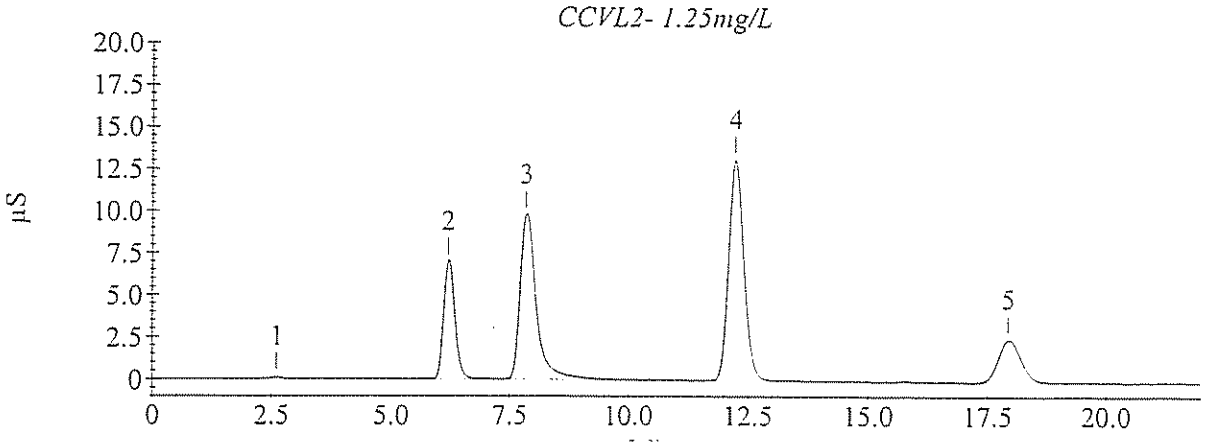
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__028.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 12:07:58 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	11016	911
2	Chloride	6.20	1.371	1158350	69209
3	Nitrite-N Bromide	7.83	1.345	2336570	97099
4	Nitrate-N Phosphate-P	12.23	1.243	2901182	130557
5	Sulfate	17.93	1.345	812613	25040



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.67 min	1.00 min	
Chloride	6.20 min	1.00 min	
Nitrite-N	7.83 min	1.00 min	
Bromide	10.33 min	1.00 min	
Nitrate-N	12.20 min	1.00 min	
Phosphate-P	15.67 min	5.00 min	
Sulfate	17.80 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.67 min	0	0
Chloride	6.20 min	0	0
Nitrite-N	7.83 min	0	0
Bromide	10.33 min	0	0
Nitrate-N	12.20 min	0	0
Phosphate-P	15.67 min	0	0
Sulfate	17.80 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.67 min	Linear	Ignore	Area		0.00
Chloride	6.20 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	7.83 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.33 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.20 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.67 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.80 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	21958
2	0.10	135267
3	0.25	287985
4	0.50	546281
5	1.00	1.21146e+006
6	2.50	3.07327e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	104137
3	0.25	210975
4	0.50	423601
5	1.00	886345
6	2.50	2.27702e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 7.83 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	62855.3
2	0.10	238116
3	0.25	487595
4	0.50	880655
5	1.00	1.79323e+006
6	2.50	4.50791e+006

CD20 Component = Bromide Levels Table

Retention Time : 10.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	36053.3
3	0.25	87423.9
4	0.50	184692
5	1.00	378819
6	2.50	940431

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	198696
3	0.25	532712
4	0.50	1.03372e+006
5	1.00	2.36629e+006
6	2.50	6.12422e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	8388.6
2	0.10	29693.1
3	0.25	120423
4	0.50	216150
5	1.00	493533
6	2.50	1.34148e+006

CD20 Component = Sulfate Levels Table

Retention Time : 17.80 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	79015.6
3	0.25	193779
4	0.50	348721
5	1.00	729749
6	2.50	1.79531e+006

CD20 XY Data Parameters

Calibration Update Report

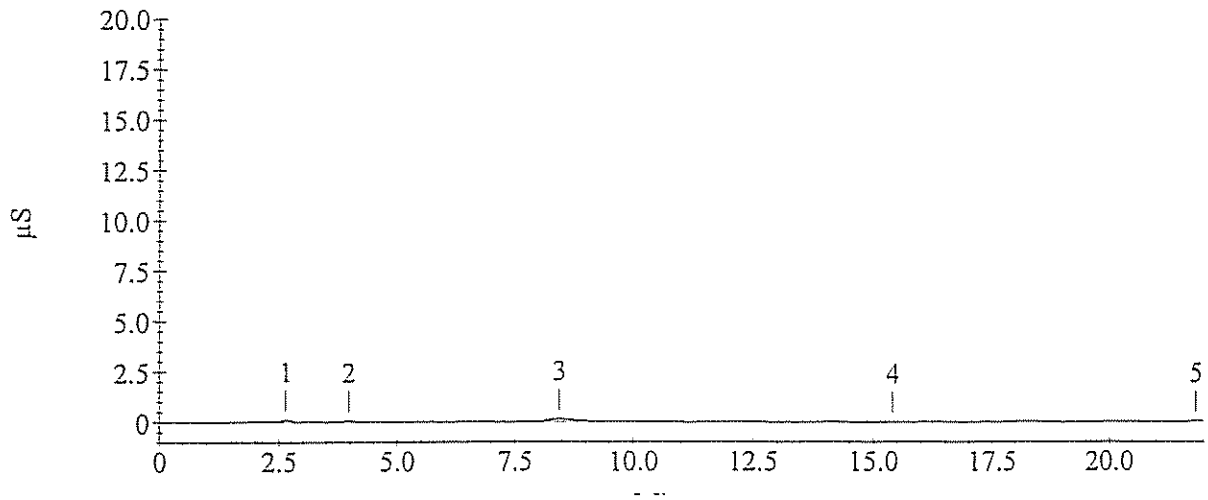
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\090318\090318__005.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:30:43 PM
Calibration Date : 3/19/09 9:53:29 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride Chloride	3.97	4957	21958	21958
3	Nitrite-N Bromide Nitrate-N	8.43	13027	62855	62855
4	Phosphate-P Sulfate	15.40	7303	8389	8389

STD 1 - BLK



Calibration Update Report

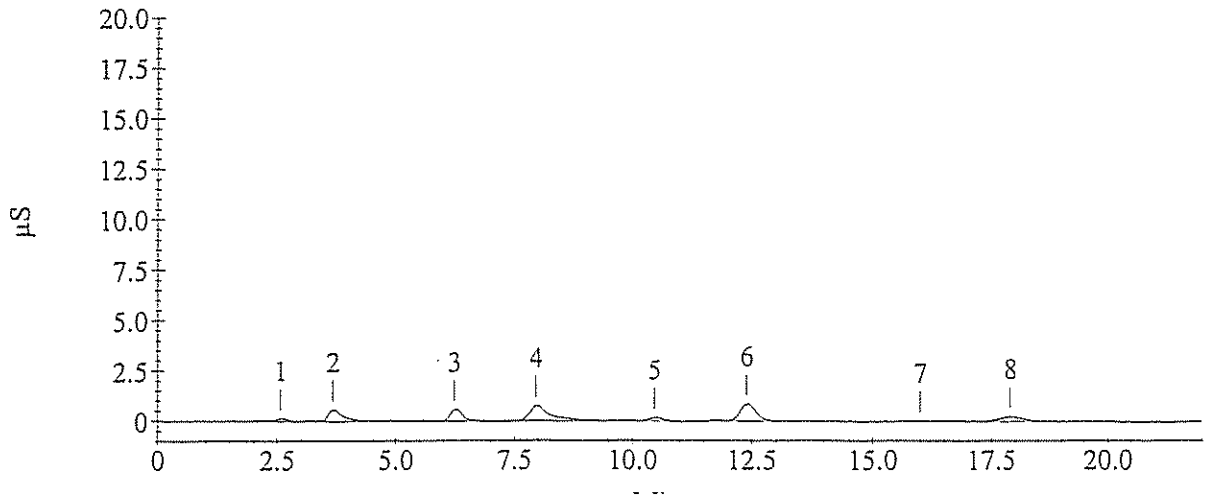
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__006.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:55:47 PM
Calibration Date : 3/19/09 10:00:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	109547	135267	135267
3	Chloride	6.23	77116	104137	104137
4	Nitrite-N	7.97	159558	238116	238116
5	Bromide	10.47	38327	36053	36053
6	Nitrate-N	12.40	205502	198696	198696
7	Phosphate-P	16.00	67440	29693	29693
8	Sulfate	17.90	53957	79016	79016

STD 2 - 0.10 mg/L



Calibration Update Report

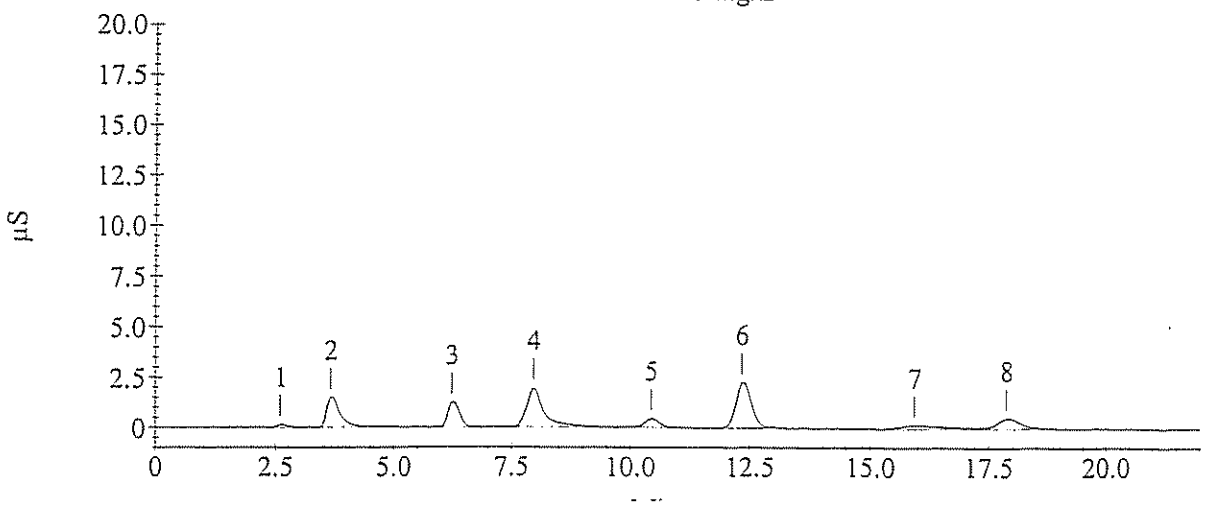
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__007.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:20:51 PM
Calibration Date : 3/19/09 9:16:23 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	277132	287985	287985
3	Chloride	6.23	197410	210975	210975
4	Nitrite-N	7.97	359105	487595	487595
5	Bromide	10.43	88554	87424	87424
6	Nitrate-N	12.33	506529	532712	532712
7	Phosphate-P	15.93	165945	120423	120423
8	Sulfate	17.87	139751	193779	193779

STD 3 - 0.25 mg/L



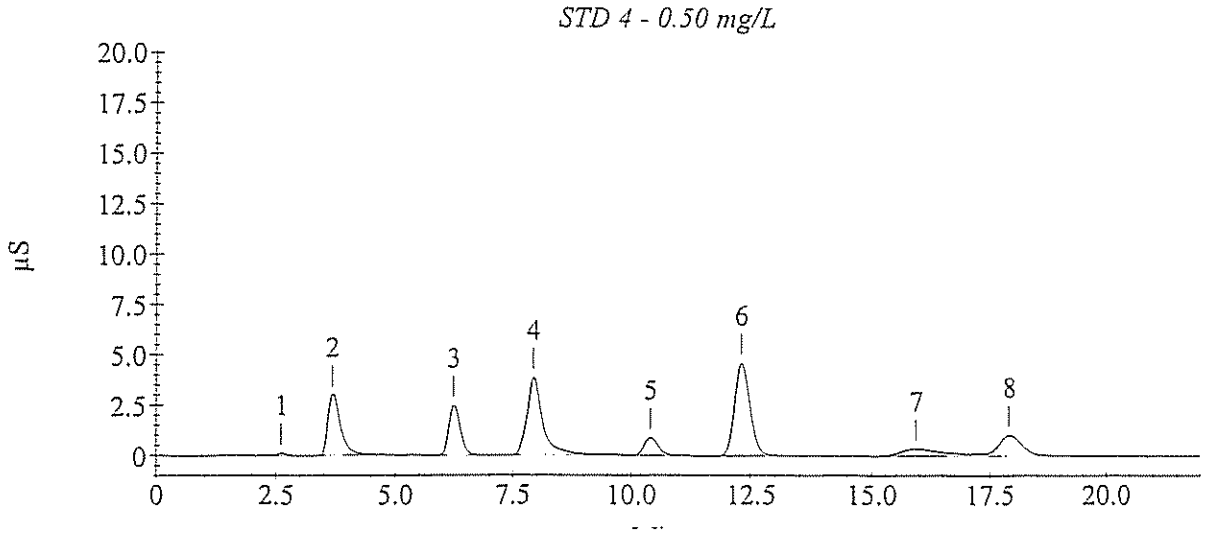
Calibration Update Report

Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__008.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:45:56 PM
Calibration Date : 3/19/09 9:16:47 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	557311	546281	546281
3	Chloride	6.23	408470	423601	423601
4	Nitrite-N	7.93	820570	880655	880655
5	Bromide	10.40	165498	184692	184692
6	Nitrate-N	12.30	970676	1033717	1033717
7	Phosphate-P	15.93	353067	216150	216150
8	Sulfate	17.90	274835	348721	348721



Calibration Update Report

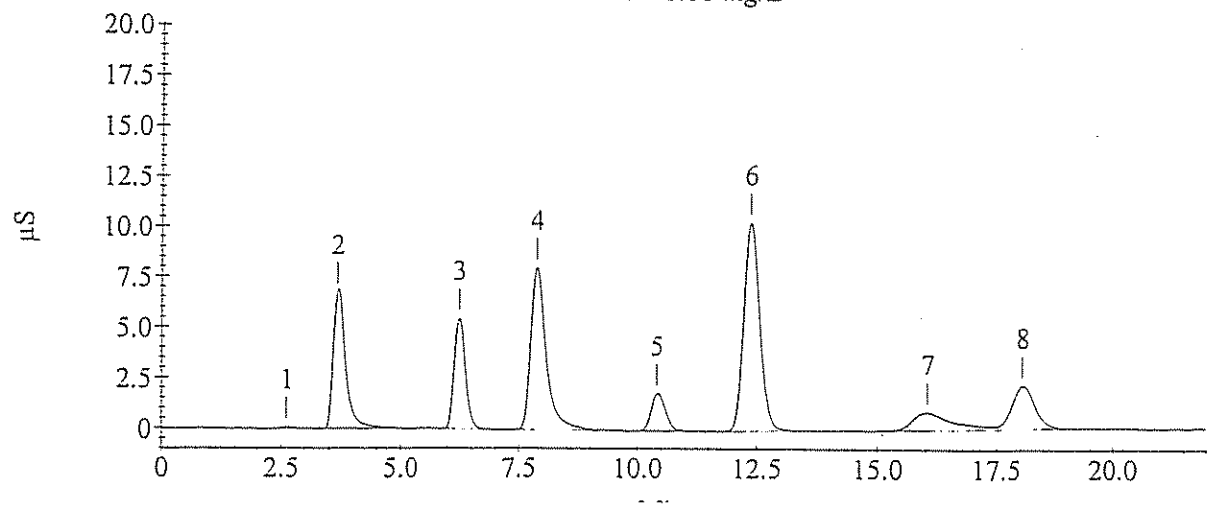
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__009.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:11:03 PM
Calibration Date : 3/19/09 9:17:01 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	1241286	1211455	1211455
3	Chloride	6.23	836176	886345	886345
4	Nitrite-N	7.87	1743424	1793231	1793231
5	Bromide	10.40	356395	378819	378819
6	Nitrate-N	12.37	2165069	2366291	2366291
7	Phosphate-P	16.03	734622	493533	493533
8	Sulfate	18.03	612643	729749	729749

STD 5 - 1.00 mg/L



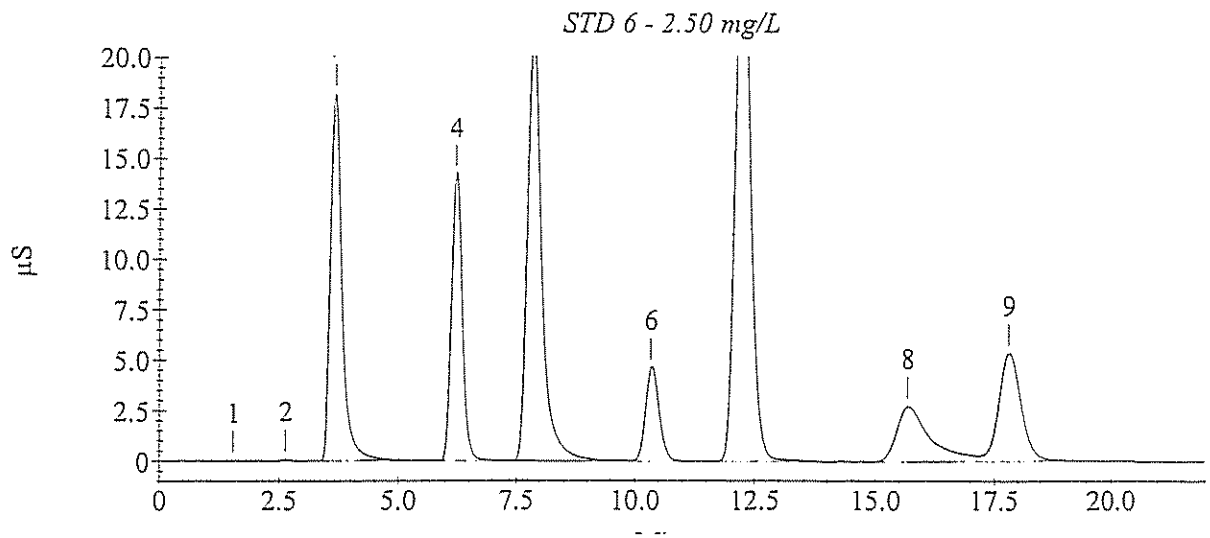
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__010.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:36:08 PM
Calibration Date : 3/19/09 9:17:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.67	3200757	3073266	3073266
4	Chloride	6.20	2128443	2277017	2277017
5	Nitrite-N	7.83	4384638	4507913	4507913
6	Bromide	10.33	912041	940431	940431
7	Nitrate-N	12.20	6057211	6124224	6124224
8	Phosphate-P	15.67	1937708	1341477	1341477
9	Sulfate	17.80	1520461	1795309	1795309



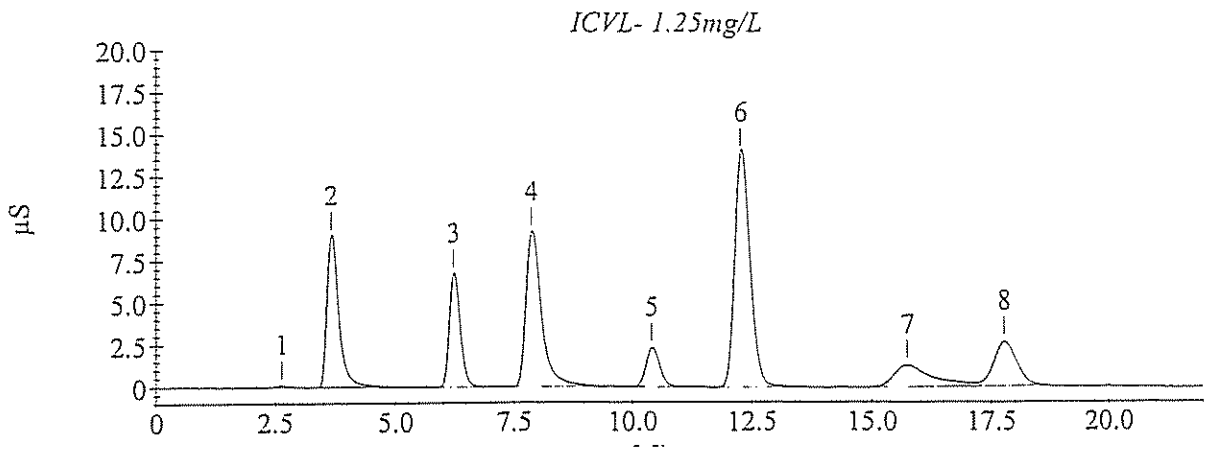
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__017.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/18/09 6:31:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.283	1565911	89179
3	Chloride	6.23	1.228	1107725	66995
4	Nitrite-N	7.87	1.169	2120349	91415
5	Bromide	10.40	1.243	466511	23016
6	Nitrate-N	12.27	1.307	3138229	138573
7	Phosphate-P	15.73	1.340	701225	13082
8	Sulfate	17.77	1.256	905537	26377



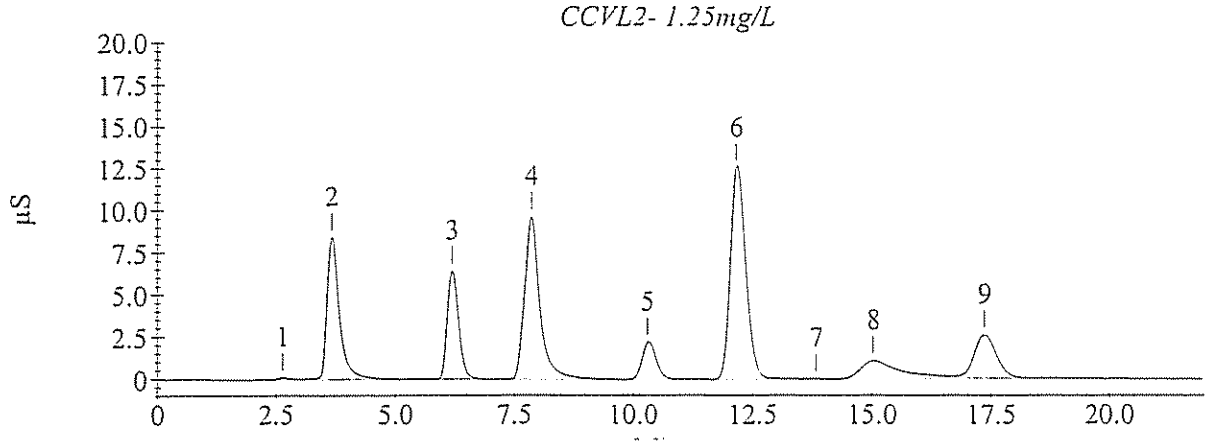
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__023.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/25/09 9:56:37 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.268	1546948	83936
3	Chloride	6.20	1.179	1062625	63687
4	Nitrite-N	7.87	1.179	2136900	96062
5	Bromide	10.30	1.217	456834	21811
6	Nitrate-N	12.17	1.186	2838060	124997
8	Phosphate-P	15.03	1.170	608948	10535
9	Sulfate	17.37	1.181	852183	25534



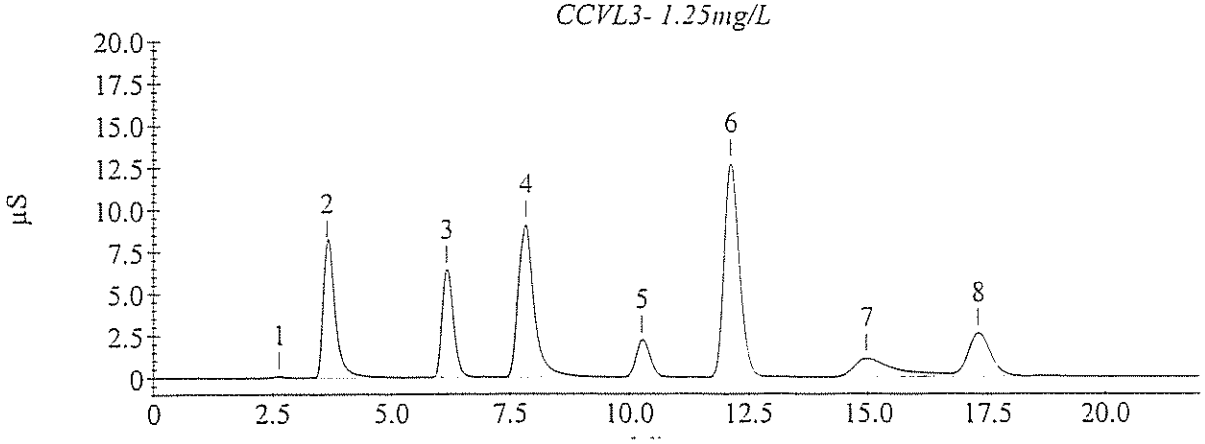
Sample Analysis Report

Sample Name : CCVL3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__036.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/26/09 3:22:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	1.202	1466255	79088
3	Chloride	6.17	1.173	1056950	63500
4	Nitrite-N	7.83	1.159	2102121	90271
5	Bromide	10.27	1.202	451037	21925
6	Nitrate-N	12.13	1.183	2830841	126786
7	Phosphate-P	14.97	1.264	659726	10967
8	Sulfate	17.30	1.188	856783	25674



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	2.00 min	
Chloride	6.60 min	2.00 min	
Nitrite-N	8.60 min	2.00 min	
Bromide	11.10 min	2.00 min	
Nitrate-N	12.53 min	2.00 min	
Phosphate-P	16.53 min	2.00 min	
Sulfate	18.63 min	2.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.60 min	0	0
Nitrite-N	8.60 min	0	0
Bromide	11.10 min	0	0
Nitrate-N	12.53 min	0	0
Phosphate-P	16.53 min	0	0
Sulfate	18.63 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.60 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.60 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.10 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.53 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.53 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.63 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.19633e+006
2	5.00	6.79909e+006
3	10.00	1.4197e+007
4	15.00	2.23583e+007
5	25.00	3.24666e+007
6	50.00	5.95621e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.17209e+006
2	5.00	4.74491e+006
3	10.00	1.09177e+007
4	15.00	1.81901e+007
5	25.00	3.02302e+007
6	50.00	6.49975e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.50237e+006
2	5.00	9.32687e+006
3	10.00	1.88466e+007
4	15.00	2.84344e+007
5	25.00	4.30083e+007
6	50.00	7.78228e+007

CD20 Component = Bromide Levels Table

Retention Time : 11.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	944915
2	5.00	1.94188e+006
3	10.00	4.22448e+006
4	15.00	6.96738e+006
5	25.00	1.20925e+007
6	50.00	2.71285e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.0797e+006
2	5.00	1.34786e+007
3	10.00	2.97651e+007
4	15.00	4.68262e+007
5	25.00	7.95557e+007
6	50.00	1.68531e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.91979e+006
2	5.00	4.10318e+006
3	10.00	9.26053e+006
4	15.00	1.50936e+007
5	25.00	2.73147e+007
6	50.00	5.84703e+007

CD20 Component = Sulfate Levels Table

Retention Time : 18.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.51196e+006
2	5.00	3.10193e+006
3	10.00	6.7792e+006
4	15.00	1.0794e+007
5	25.00	1.95858e+007
6	50.00	4.20941e+007

CD20 XY Data Parameters

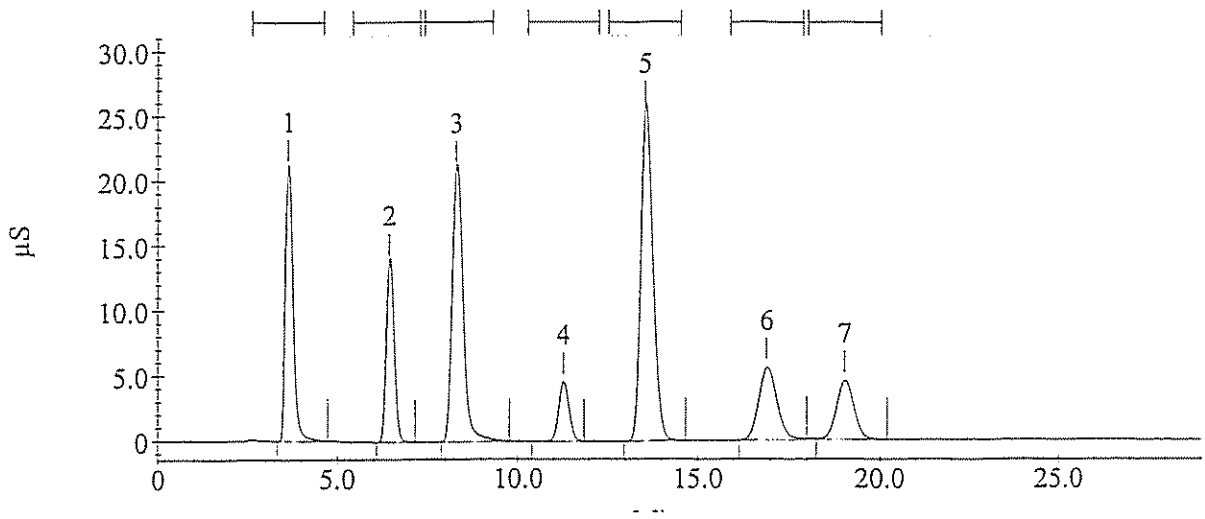
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__009.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:35:27 PM
Calibration Date : 9/18/08 1:45:07 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.63	3490609	3196333	3196333
2	Chloride	6.43	2340736	2172090	2172090
3	Nitrite-N	8.30	4788476	4502370	4502370
4	Bromide	11.27	910060	944915	944915
5	Nitrate-N	13.53	6100255	6079699	6079699
6	Phosphate-P	16.90	1989759	1919795	1919795
7	Sulfate	19.03	1509227	1511958	1511958



Calibration Update Report

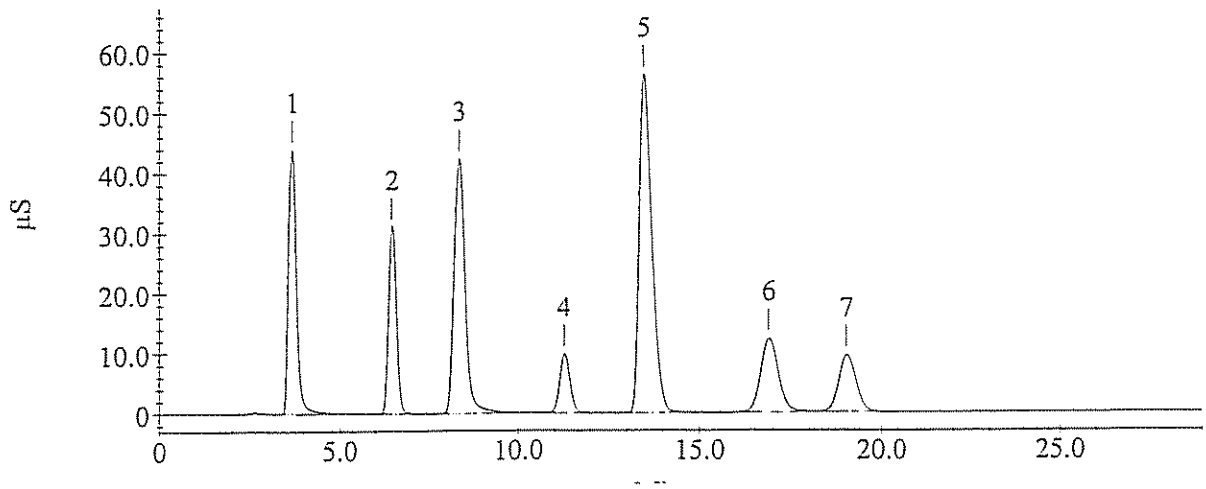
Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__010.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:07:45 PM
Calibration Date : 9/18/08 1:46:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	7163728	6799090	6799090
2	Chloride	6.47	4951970	4744908	4744908
3	Nitrite-N	8.37	9622812	9326874	9326874
4	Bromide	11.27	1886735	1941879	1941879
5	Nitrate-N	13.47	13547415	13478598	13478598
6	Phosphate-P	16.90	4333106	4103184	4103184
7	Sulfate	19.03	3220366	3101926	3101926

STD 2 - 5.00 mg/L



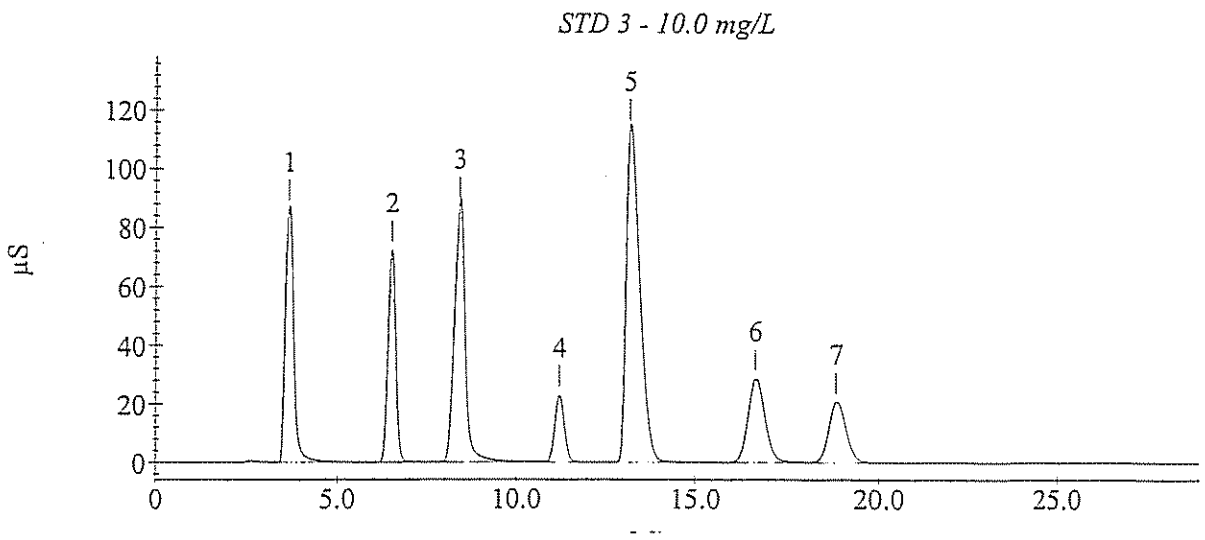
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__011.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:39:59 PM
Calibration Date : 9/18/08 1:46:56 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	15827968	14197049	14197049
2	Chloride	6.50	12391700	10917702	10917702
3	Nitrite-N	8.40	20828057	18846586	18846586
4	Bromide	11.20	4468055	4224476	4224476
5	Nitrate-N	13.17	32002772	29765135	29765135
6	Phosphate-P	16.63	10155360	9260527	9260527
7	Sulfate	18.83	7254458	6779202	6779202



Calibration Update Report

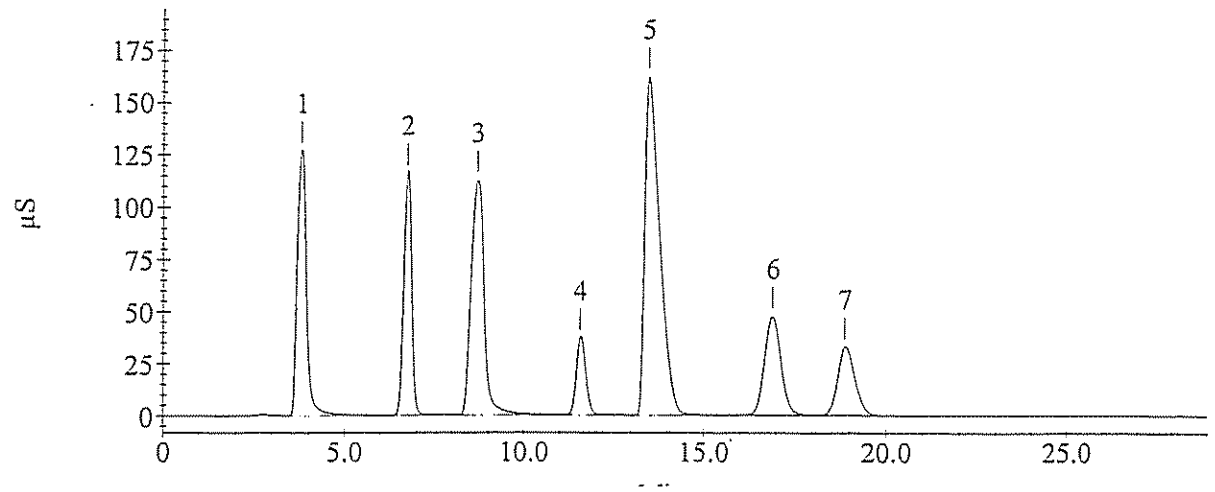
Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__012.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:12:14 PM
Calibration Date : 9/18/08 1:55:13 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.80	22029611	22358309	22358309
2	Chloride	6.73	18865697	18190071	18190071
3	Nitrite-N	8.70	29289300	28434383	28434383
4	Bromide	11.57	7016812	6967382	6967382
5	Nitrate-N	13.47	50292581	46826178	46826178
6	Phosphate-P	16.90	16723468	15093639	15093639
7	Sulfate	18.87	11671317	10793955	10793955

STD 4 - 15.0 mg/L



Calibration Update Report

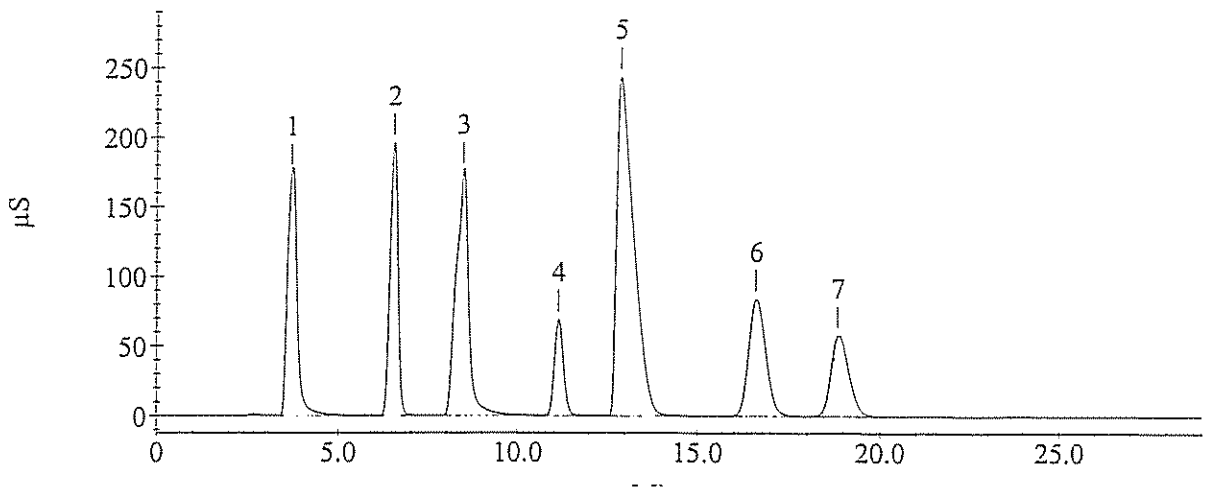
Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__013.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:44:30 PM
Calibration Date : 9/18/08 1:55:31 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.70	33007779	32466619	32466619
2	Chloride	6.53	32580429	30230161	30230161
3	Nitrite-N	8.47	44840173	43008339	43008339
4	Bromide	11.13	12419665	12092529	12092529
5	Nitrate-N	12.87	83601485	79555670	79555670
6	Phosphate-P	16.60	28101078	27314683	27314683
7	Sulfate	18.83	19423982	19585760	19585760

STD 5 - 25.0 mg/L



Calibration Update Report

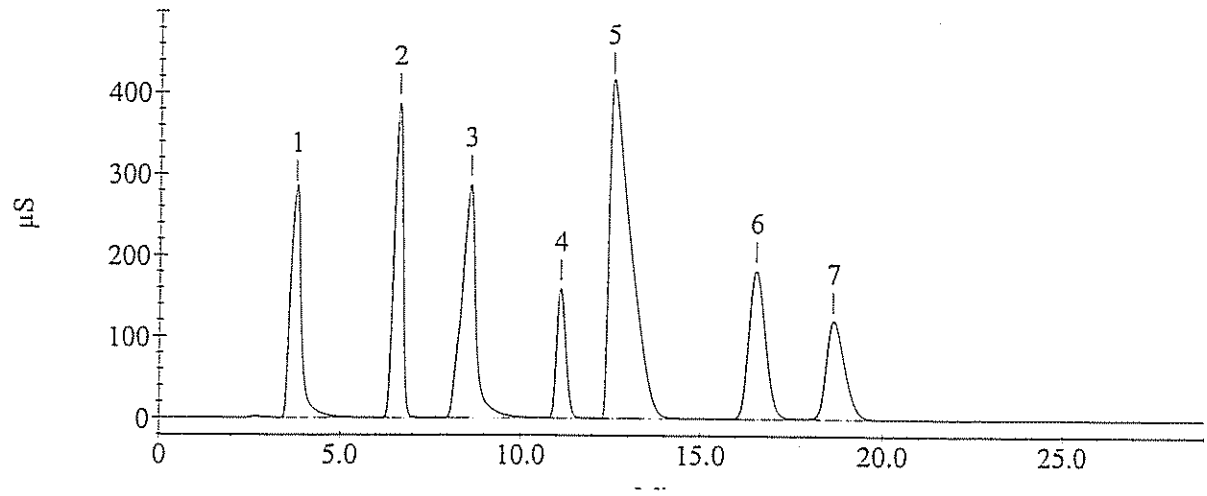
Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__014.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 9:16:45 PM
Calibration Date : 9/18/08 1:55:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.77	61202691	59562057	59562057
2	Chloride	6.60	68397328	64997521	64997521
3	Nitrite-N	8.60	78043406	77822760	77822760
4	Bromide	11.10	26985167	27128528	27128528
5	Nitrate-N	12.53	170058779	168531288	168531288
6	Phosphate-P	16.53	60044391	58470285	58470285
7	Sulfate	18.63	41693235	42094125	42094125

STD 6 - 50.0 mg/L



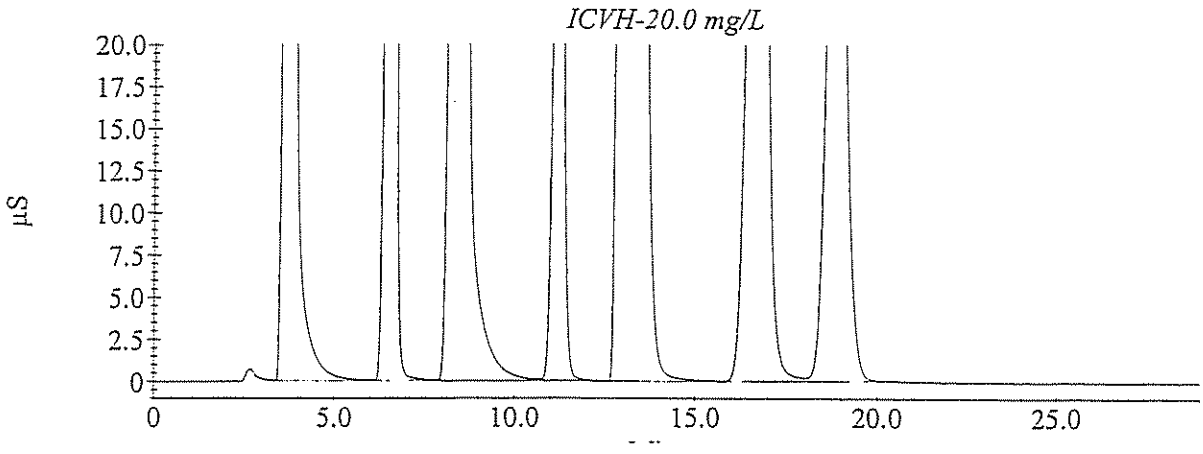
Sample Analysis Report

Sample Name : ICVH-20.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__016.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 9/17/08 10:21:17 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	19.970	27365306	1532443
2	Chloride	6.53	19.882	24486856	1608579
3	Nitrite-N	8.47	22.633	37577280	1419007
4	Bromide	11.17	18.982	9475913	530938
5	Nitrate-N	12.97	19.672	63390755	2049592
6	Phosphate-P	16.60	19.427	21178030	659102
7	Sulfate	18.80	19.274	15149498	460473



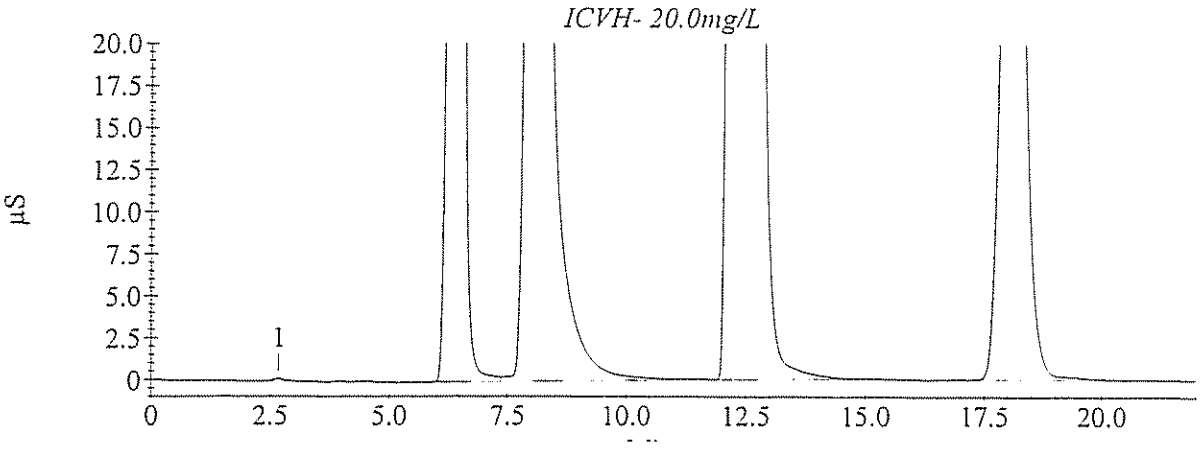
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__003.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/11/09 1:39:54 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	42280	1670
2	Chloride	6.37	21.204	26244230	1572974
3	Nitrite-N Bromide	8.03	23.252	38529551	1584503
4	Nitrate-N Phosphate-P	12.23	20.710	66951467	2253684
5	Sulfate	18.03	19.889	15680901	507256



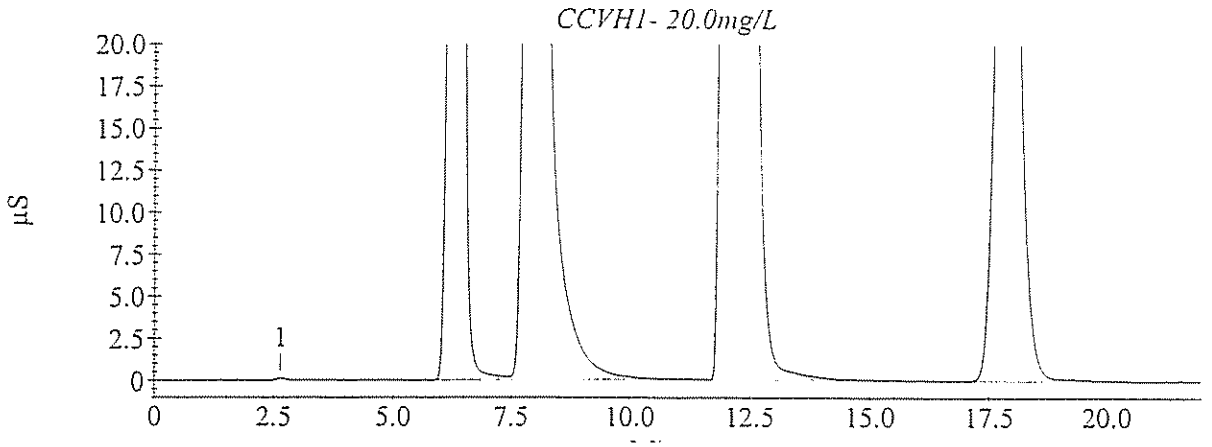
Sample Analysis Report

Sample Name : CCVH1- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__016.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/11/09 7:06:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	17056	1222
2	Chloride	6.30	20.702	25577172	1594530
3	Nitrite-N Bromide	7.93	22.675	37642891	1619445
4	Nitrate-N Phosphate-P	12.03	20.565	66455627	2266022
5	Sulfate	17.80	20.078	15843977	504274



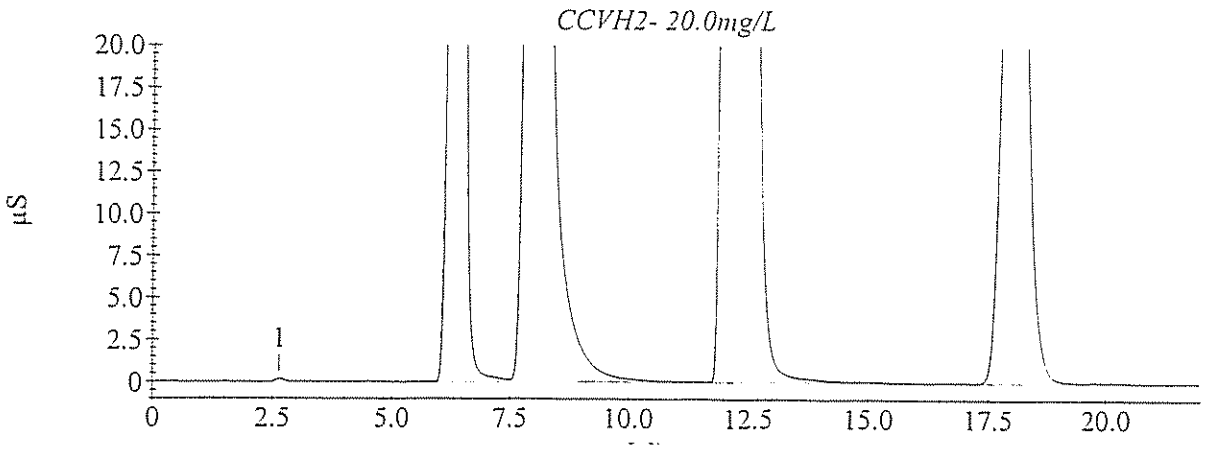
Sample Analysis Report

Sample Name : CCVH2- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__029.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/12/09 12:33:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	23038	1681
2	Chloride	6.33	20.721	25601821	1565553
3	Nitrite-N Bromide	7.97	23.205	38457431	1459605
4	Nitrate-N Phosphate-P	12.07	20.615	66627195	2284275
5	Sulfate	17.97	20.079	15844694	509109



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

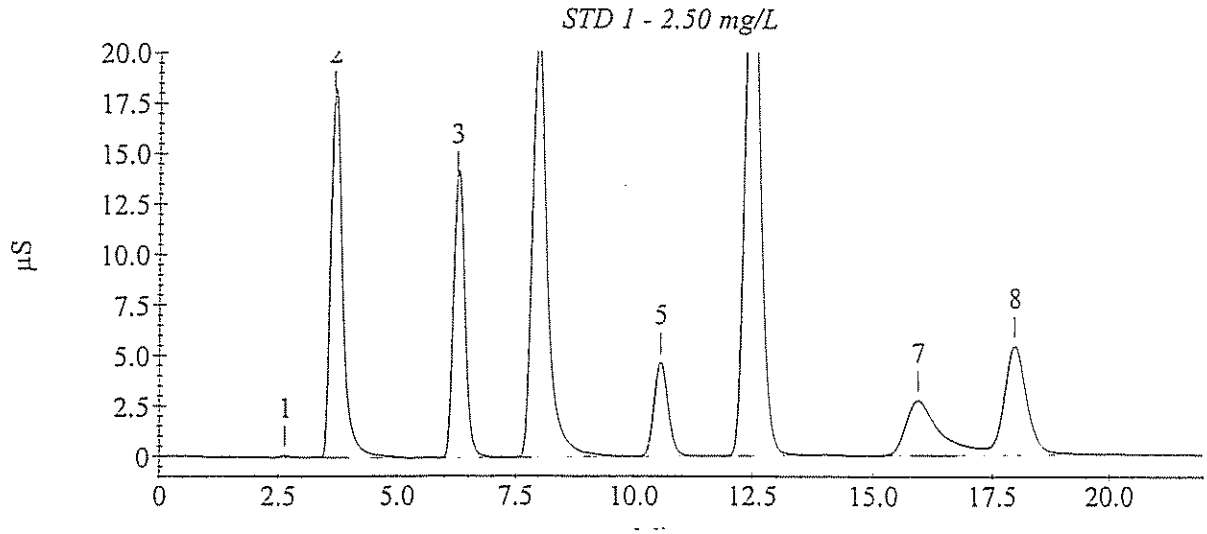
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



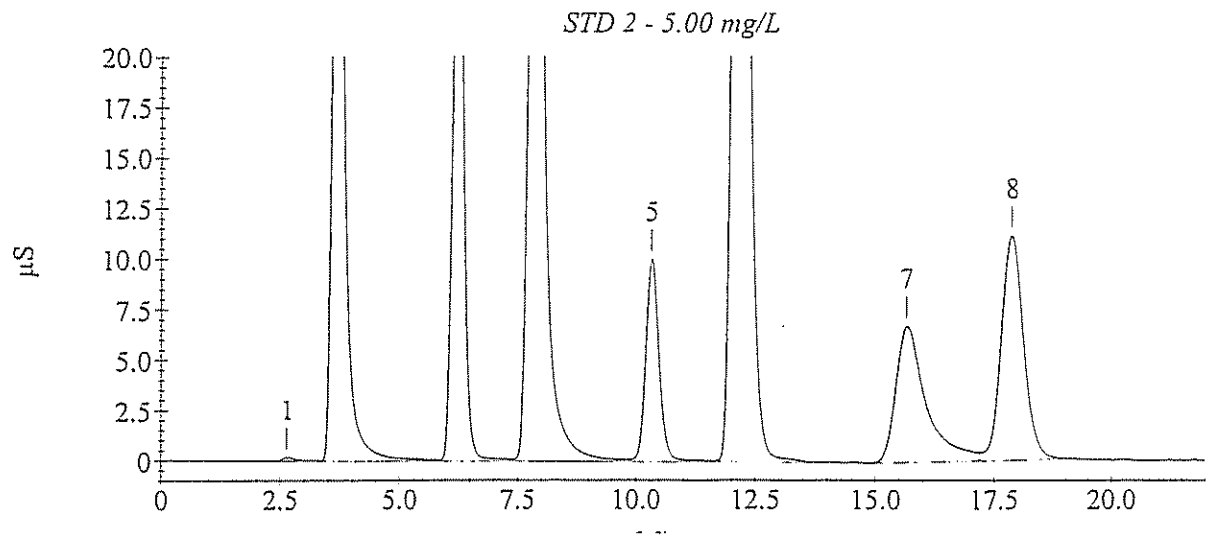
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077



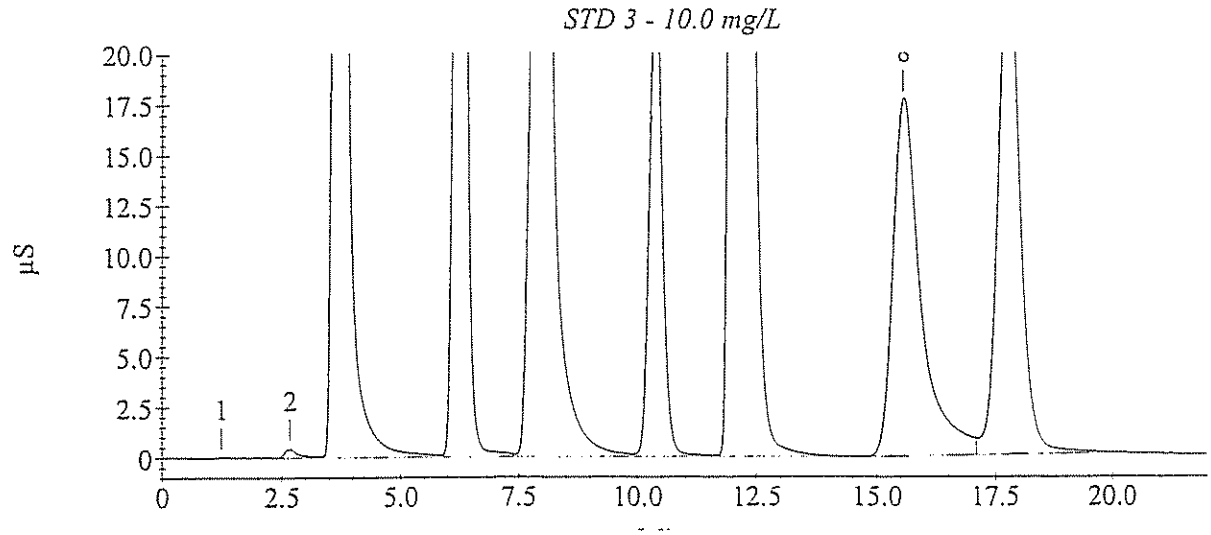
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944



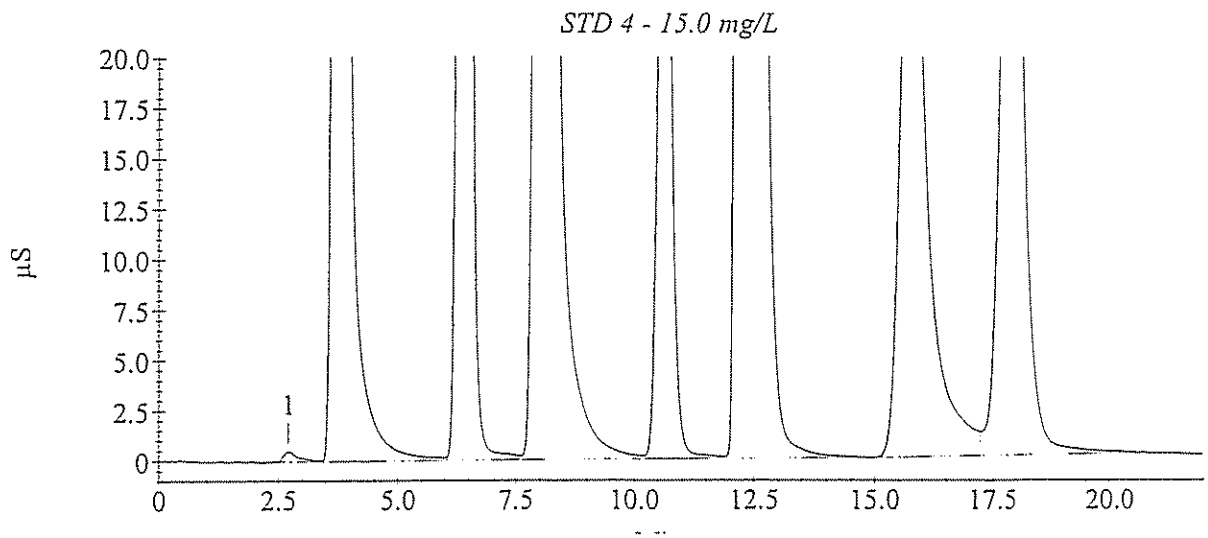
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



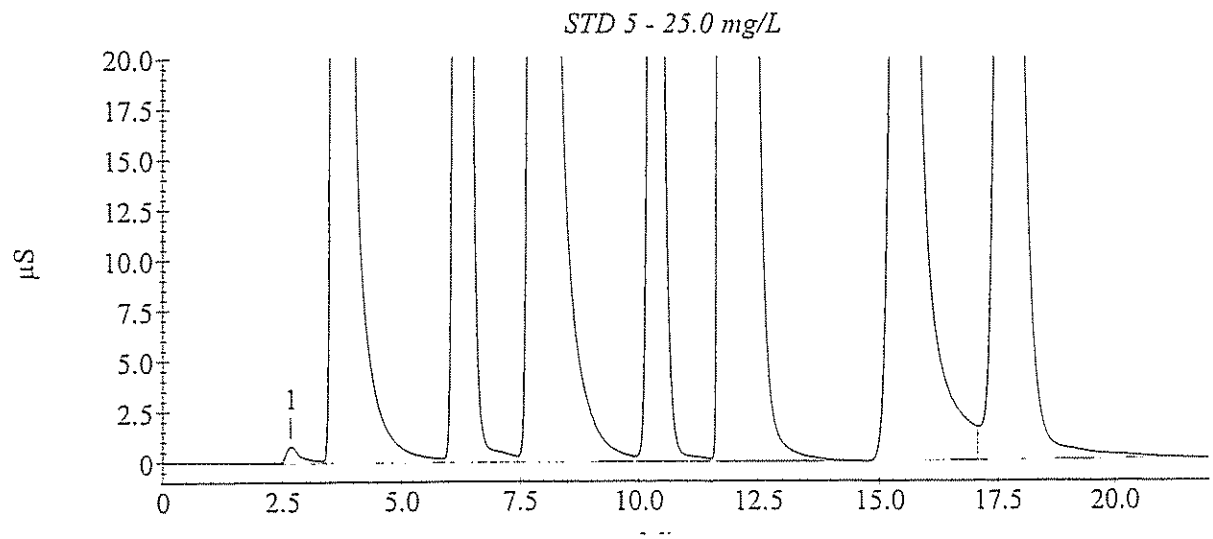
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



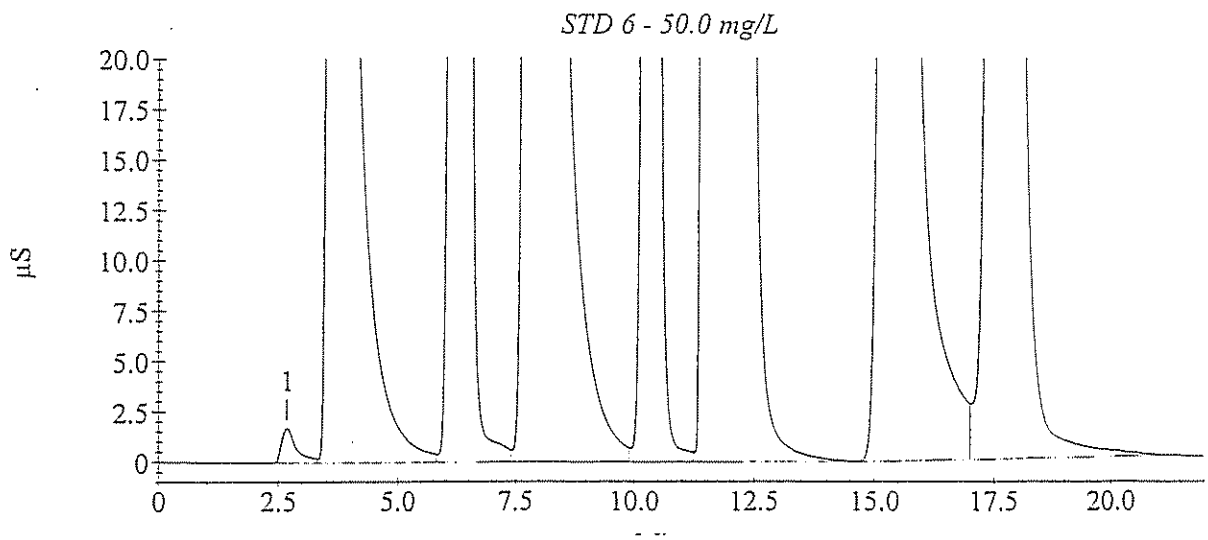
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829



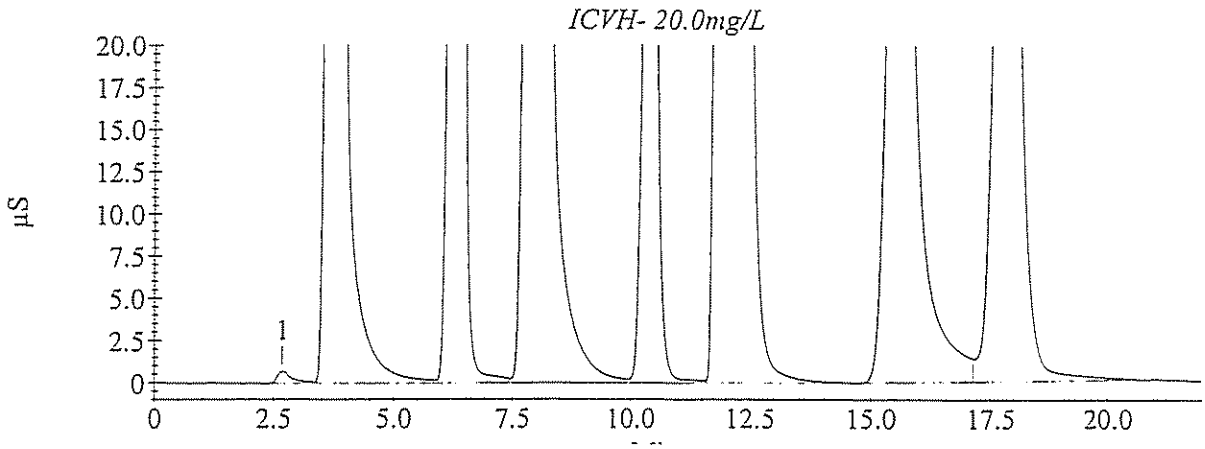
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



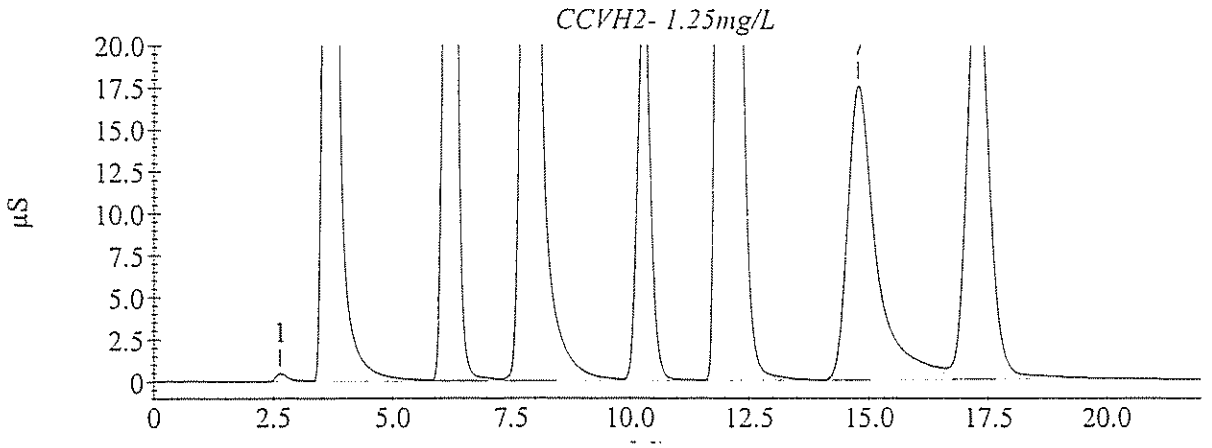
Sample Analysis Report

Sample Name : CCVH2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__024.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/25/09 10:21:41 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	9.743	14015879	755512
3	Chloride	6.17	9.472	11126792	631153
4	Nitrite-N	7.87	12.115	19101071	898419
5	Bromide	10.27	9.440	4327259	230807
6	Nitrate-N	11.93	9.868	31039458	1263760
7	Phosphate-P	14.77	9.478	7276222	174267
8	Sulfate	17.23	9.596	8090855	252967



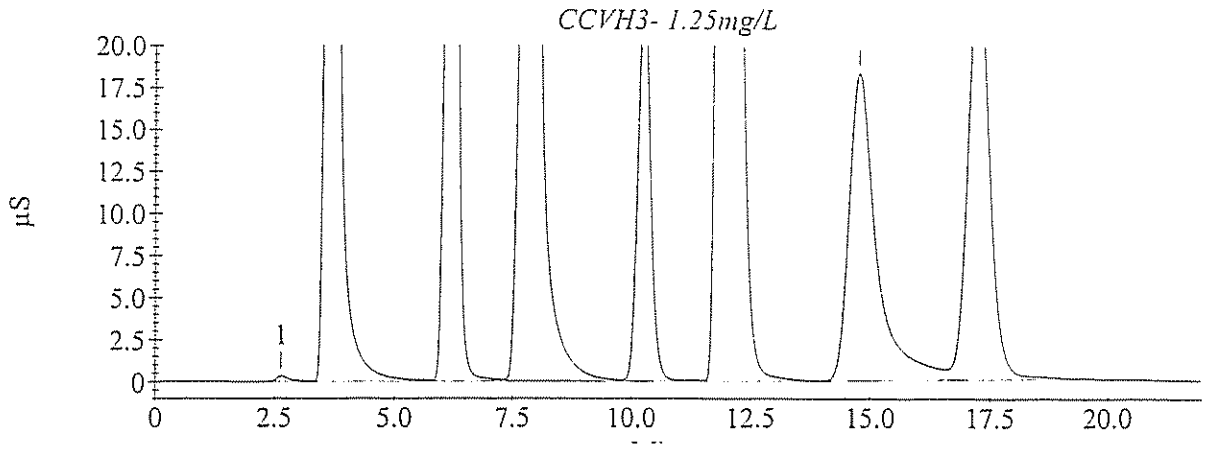
Sample Analysis Report

Sample Name : CCVH3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__037.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 3:47:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	9.671	13912167	763604
3	Chloride	6.17	9.516	11186718	685205
4	Nitrite-N	7.83	12.045	19010762	835902
5	Bromide	10.23	9.404	4306633	228108
6	Nitrate-N	11.90	9.841	30945297	1256793
7	Phosphate-P	14.77	9.517	7318148	182147
8	Sulfate	17.20	9.457	7949216	248531



TOTAL PETROLEUM HYDROCARBONS
GASOLINE RANGE ORGANICS

GPL Laboratories

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OUI-16GW01-0309MSD

Lab Name : GPL Laboratories SDG NO : 903062 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903062-006-032-1/2MSD Matrix : WATER Analysis Date : 03/20/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	31	31	0.0	30	29	97	94	3	25	80-120
Ethene	29	29	0.0	26	25	90	86	5	25	80-120
Methane	16	16	0.0	16	16	100	100	0	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 0 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
TPH METHOD BLANK SUMMARY

SAMPLE NO
BLK108776

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	108776
Lab File ID :	G262595.D	SDG NO :	903062
Date Analyzed	03/23/2009	Lab Sample ID :	BLK108776
Date Extracted :	03/23/2009	Time Analyzed :	12:17
Matrix :(Soil/Water).	WATER	Level :(Low/Med)	

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
OUI-MW51-0309DL	903062-004-029-2/2	G262596.D	03/23/2009
OUI-MW50-0309DL	903062-005-031-2/2	G262597.D	03/23/2009

GPL Laboratories

GPL
FORM 4
TPH METHOD BLANK SUMMARY

SAMPLE NO
BLK108780

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	108780
Lab File ID :	G262572.D	SDG NO :	903062
Date Analyzed	03/20/2009	Lab Sample ID :	BLK108780
Date Extracted :	03/20/2009	Time Analyzed :	10:55
Matrix :(Soil/Water).	WATER	Level :(Low/Med)	

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
OUI-EB-031009	903062-001-022-1/2	G262573.D	03/20/2009
OUI-FB-031009	903062-002-024-1/2	G262574.D	03/20/2009
OUI-16GW16-0309	903062-003-026-1/2	G262575.D	03/20/2009
OUI-MW51-0309	903062-004-028-1/2	G262576.D	03/20/2009
OUI-MW50-0309	903062-005-030-1/2	G262577.D	03/20/2009
OUI-16GW01-0309	903062-006-032-1/2	G262578.D	03/20/2009
OUI-16GW01-0309MS	903062-006-032-1/2MS	G262579.D	03/20/2009
OUI-16GW01-0309MSD	903062-006-032-1/2MSD	G262580.D	03/20/2009

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108776

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108776
Sample Volume :	10	Lab File ID :	G262595.D
% Moisture:		Date Received	
Extraction:	SW5030B	Date Extracted:	03/23/2009
Extract Volume:	10 mL	Date Analyzed	03/23/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108780

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108780
Sample Volume :	10	Lab File ID :	G262572.D
% Moisture:		Date Received	
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-032-1/2
Sample Volume :	10	Lab File ID :	G262578.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-032-1/2MS
Sample Volume :	10	Lab File ID :	G262579.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	30	
74-85-1	Ethene	26	
74-82-8	Methane	16	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-032-1/2MSD
Sample Volume :	10	Lab File ID :	G262580.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	29	
74-85-1	Ethene	25	
74-82-8	Methane	16	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-026-1/2
Sample Volume :	10	Lab File ID :	G262575.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	11	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-022-1/2
Sample Volume :	10	Lab File ID :	G262573.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	5.4	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-024-1/2
Sample Volume :	10	Lab File ID :	G262574.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-030-1/2
Sample Volume :	10	Lab File ID :	G262577.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	420	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-031-2/2
Sample Volume :	.5	Lab File ID :	G262597.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/23/2009
Extract Volume:	.5 mL	Date Analyzed	03/23/2009
Injection Volume :	µ L	Dilution Factor :	20
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	87	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-028-1/2
Sample Volume :	10	Lab File ID :	G262576.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	1200	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-029-2/2
Sample Volume :	.2	Lab File ID :	G262596.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/23/2009
Extract Volume:	.2 mL	Date Analyzed	03/23/2009
Injection Volume :	µ L	Dilution Factor :	50
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	310	U
74-85-1	Ethene	290	U
74-82-8	Methane	900	

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009

Calibration Files
1 =G262567.D 2 =G262568.D 10 =G262571.D
5 =G262570.D 4 =G262569.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	1.844	1.715	1.208	1.507	1.544	1.563 E2	15.39
2)	T	Ethane	2.965	2.600	1.796	2.090	2.406	2.371 E1	19.04
3)	T	Ethylene	3.591	3.466	2.153	2.763	2.893	2.973 E1	19.52

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032009\G262581.D
Acq On : 20 Mar 2009 15:38
Sample : CCV05
Misc : CCV05
IntFile : rteint.p

Vial: 15
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	127.470	18.5	85	-0.01
2	T	Ethane	23.713	22.628	4.6	108	0.00
3	T	Ethylene	29.730	26.907	9.5	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262616.D
Acq On : 23 Mar 2009 18:25
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 35
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	155.181	0.7	103	0.01
2	T	Ethane	23.713	19.679	17.0	94	0.02
3	T	Ethylene	29.730	24.089	19.0	87	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262605.D Vial: 24
Acq On : 23 Mar 2009 15:19 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	156.325	0.0	104	0.00
2	T	Ethane	23.713	21.571	9.0	103	0.03
3	T	Ethylene	29.730	24.983	16.0	90	0.03

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262594.D Vial: 13
Acq On : 23 Mar 2009 12:02 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	126.747	18.9	84	-0.24
2	T	Ethane	23.713	20.609	13.1	99	0.02
3	T	Ethylene	29.730	24.605	17.2	89	0.03

WET CHEMISTRY

GPL Laboratories, LLLP

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-EB-031009

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903062
Case No.:		SDG NO.:	903062
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903062-001-040-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/11/2009
% Moisture:	ID.	Date Analyzed:	3/17/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.0	U
7440-44-0	Total Organic Carbon, Replicate 2	1.0	U
7440-44-0	Total Organic Carbon, Replicate 3	1.0	U
7440-44-0	Total Organic Carbon, Replicate 4	1.0	U
7440-44-0	Total Organic Carbon, Average	1.0	U

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-FB-031009

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903062
Case No.:		SDG NO.:	903062
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903062-002-047-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/11/2009
% Moisture:	ID.	Date Analyzed:	3/17/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.0	U
7440-44-0	Total Organic Carbon, Replicate 2	1.0	U
7440-44-0	Total Organic Carbon, Replicate 3	1.0	U
7440-44-0	Total Organic Carbon, Replicate 4	1.0	U
7440-44-0	Total Organic Carbon, Average	1.0	U

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW16-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903062
Case No.:		SDG NO.:	903062
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903062-003-048-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/11/2009
% Moisture:	ID.	Date Analyzed:	3/17/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	7.1	
7440-44-0	Total Organic Carbon, Replicate 2	7.1	
7440-44-0	Total Organic Carbon, Replicate 3	7.0	
7440-44-0	Total Organic Carbon, Replicate 4	7.0	
7440-44-0	Total Organic Carbon, Average	7.0	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW51-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903062
Case No.:		SDG NO.:	903062
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903062-004-049-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/11/2009
% Moisture:	ID.	Date Analyzed:	3/17/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.3	
7440-44-0	Total Organic Carbon, Replicate 2	5.3	
7440-44-0	Total Organic Carbon, Replicate 3	5.3	
7440-44-0	Total Organic Carbon, Replicate 4	5.3	
7440-44-0	Total Organic Carbon, Average	5.3	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW5D-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903062
Case No.:		SDG NO.:	903062
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903062-005-050-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/11/2009
% Moisture:	ID.	Date Analyzed:	3/17/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	9.5	
7440-44-0	Total Organic Carbon, Replicate 2	9.5	
7440-44-0	Total Organic Carbon, Replicate 3	9.5	
7440-44-0	Total Organic Carbon, Replicate 4	9.5	
7440-44-0	Total Organic Carbon, Average	9.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW01-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903062
Case No.:		SDG NO.:	903062
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903062-006-051-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/11/2009
% Moisture:	ID.	Date Analyzed:	3/17/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.3	
7440-44-0	Total Organic Carbon, Replicate 2	3.1	
7440-44-0	Total Organic Carbon, Replicate 3	3.0	
7440-44-0	Total Organic Carbon, Replicate 4	3.0	
7440-44-0	Total Organic Carbon, Average	3.1	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-040-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-041-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-042-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-043-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW5D-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-044-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-045-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903062

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-EB-031009	BQL	BQL	N/C	15%
Sulfide	E376.1	OU1-FB-031009	BQL	BQL	N/C	15%

%RPD - 0 out of 2 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-EB-031009	0.18	5.22	5.00	101	85 - 115%
TOC	SW9060	OU1-FB-031009	0.13	5.62	5.00	110	85 - 115%

% Recovery - 0 out of 2 outside control limits

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903062 STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.40	110	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.00	100	70 - 130%

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903062 STD Solution ID: #43278

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	33.9	106	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	32.6	102	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	34.1	107	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	32.9	103	90 - 110%

Qualifier Definitions

CH2M Hill Inc

Work Order: 903062

All Departments

U	Indicates that the compound was analyzed for but not detected
BQL	Below Quantitation Limit

Organics

B	Indicates that the analyte was found in the associated blank as well as in the sample
D	Indicates that the analyte was reported from a diluted analysis
E	Indicates that the concentration detected exceeded the calibration range of the instrument
J	Value is less than the reporting limit but greater than the MDL
P	Indicates that there is greater than 25% difference for detected pesticide/Arochlor results between the two GC columns

Metals

J	Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL
E	Indicates that the reported value is estimated because of the possible presence of interference (i.e. the serial dilution not within control limits)
H	Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit
D	Indicates that the analyte was reported from a diluted analysis
N	Spiked sample recovery not within control limits
*	Duplicate analysis not within control limits

CT059

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Chloride hold time 28 days
~~Contract #/Billing Reference~~
Nitrate and Nitrite
Hold Time is 48 hours

Pgs.

Project:	386383, FI.FQ.FQ
Client:	NAVFAC Mid-Atlantic
Send Results To:	Bill Hanna
Address:	5700 Cleveland St, Suite 101
	Virginia Beach, Va 23462
Phone:	(757) 671-6277

	SW846 8260B (VOCs)	EPA 300.0 (Nitrate Nitrite Chloride) EPA 376.1 (Sulfide)	RSK-175 (Methane, Ethane, Ethene)	SW846 9060 (TOC)
Turnaround Time	14 days	see above / 7	14	28
# of Containers	3	1 / 1	3	1
Container Type	VOAs	250 Plastic / 500 Plastic	VOAs	250 Amber
Preservative Used	HCL	None / NaOH	HCL	H2SO4

Lab Cooler No.

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	SW846 8260B (VOCs)	EPA 300.0 (Nitrate Nitrite Chloride)	EPA 376.1 (Sulfide)	RSK-175 (Methane, Ethane, Ethene)	SW846 9060 (TOC)	Client Comments
OU1-EB-031009	3/10/09	15:40	water	DM	3	1	1	3	1	QA/QC
OU1-EB-031009	3/10/09	16:00	water	DM	3	1	1	3	1	QA/QC
OU1-16GW16-0309	3/10/09	15:30	water	PVT	3	1	1	3	1	Hold Time For VOAs 7 days due to high Temp
OU1-MW51-0309	3/10/09	15:15	water	PVT	3	1	1	3	1	
OU1-MW52-0309	3/10/09	12:05	water	DM	3	1	1	3	1	
OU1-16GW01-0309	3/10/09	16:40	water	PVT	3	1	1	3	1	
OU1-TB01-0309	3/10/09	—	water	KB	3					

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Kurt Brattmann	03/10/09 06:55			[signature]	3/11/09 12:45

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
				3°

G.P. W.O. 903062

MEMORANDUM CH2MHILL

Corrections to COCs

TO: Garth Herdrich

COPIES: File
EDD
Laboratory Package Multiple SDGs

FROM: Kyle Block
EIS
CH2M HILL

DATE: March 24, 2009

This memo is to document corrections made to entries on the Chains of Custody (COC) and Lab Logins for Cherry Point CTO-059

The SDG 903062 had the sample below incorrectly labeled on the Lab Login. Please make the appropriate change changes to all deliverables.

Change Sample ID to this:	Incorrectly labeled ID:	Date Sample	Time Sample
OU1-MW5D-0509	OU1-MW5D-0509	3/10/2009	12:05

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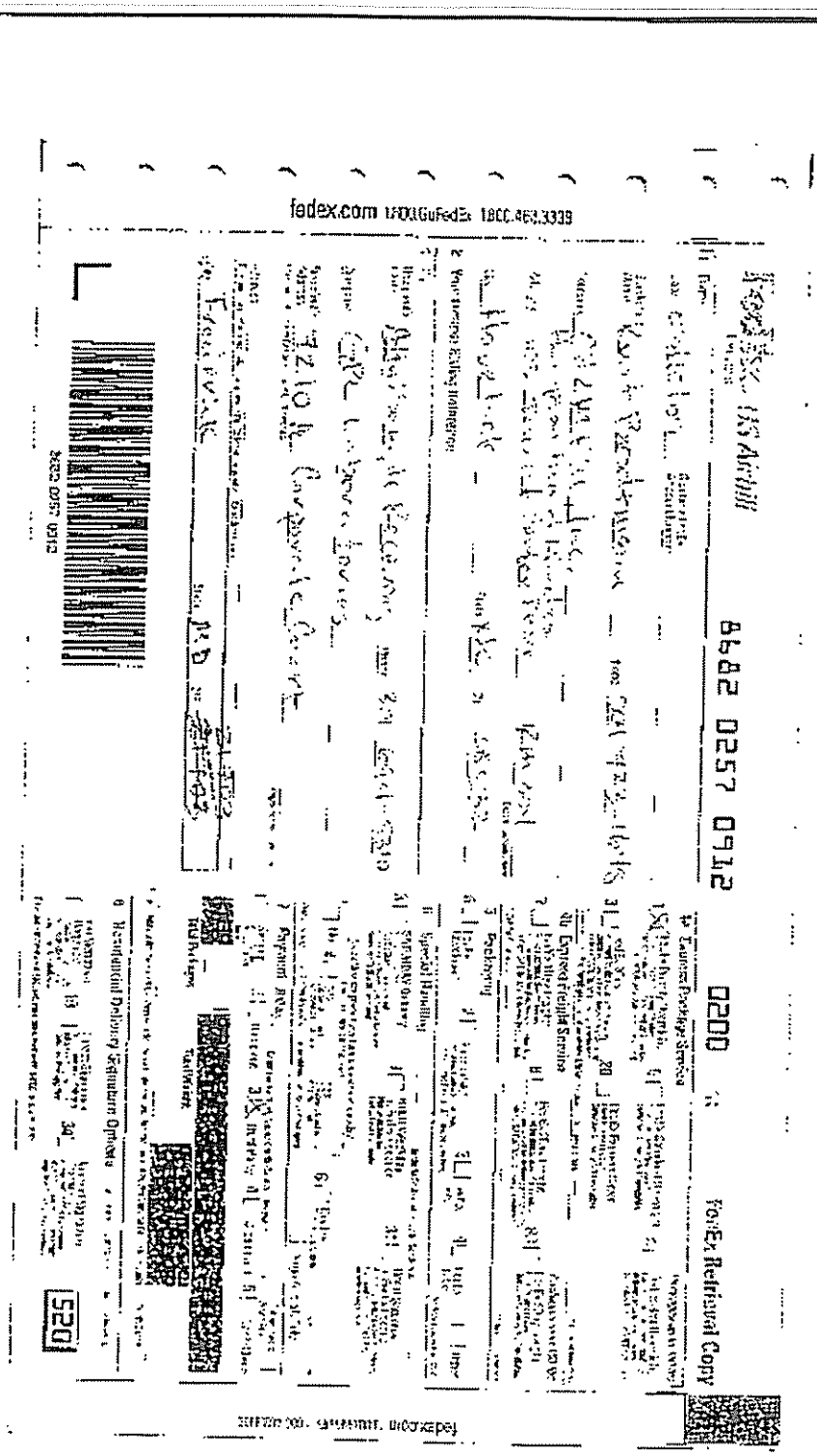
Additionally the below samples did not have sample times correlating to the sample on the COCs. Please add the times and make the appropriate changes to the COC and make appropriate changes to all deliverables.

Sample ID	Date Sample	Time Sample	SDG
OU1-TB01-0309	3/10/2009	6:50	903062
OU1-TB02-0309	3/11/2009	18:00	903069
OU1-TB03-0309	3/11/2009	18:02	903069
OU1-TB04-0309	3/11/2009	18:04	903069
OU1-TB05-0309	3/12/2009	17:15	903071
OU1-TB06-0309	3/13/2009	17:10	903093
OU1-TB07-0309	3/13/2009	17:12	903093
OU1-TB08-0309	3/16/2009	17:55	903098
OU1-TB09-0309	3/16/2009	17:57	903098
OU1-TB10-0309	3/16/2009	17:59	903098
OU1-TB11-0309	3/17/2009	17:55	903125
OU1-TB12-0309	3/17/2009	17:57	903125
OU1-TB13-0309	3/17/2009	17:59	903125
OU1-TB14-0309	3/18/2009	17:55	903124
OU1-TB15-0309	3/18/2009	17:57	903124
OU1-MW53P-0309	3/15/2009	15:20	903098
OU1-S2GW45P-0309	3/16/2009	11:02	903098



GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903062
Client Name: CH2M Hill
Date Received: 3-11-09
Time Received: 12:45
Received By: Walt

Carrier Name: Fed ex
Prepared (Logged In) By: PM : 3-11-09
Project: _____
Site: _____
VOA Holding Blank ID No: _____

	YES	NO
AirBill/Manifest Present? No: 8687-0257 0912	✓	
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?		
Condition: Good ✓ Broken		
Chain of Custody Present?	✓	
Chain of Custody Agrees with Sample Labels?	✓	
Chain of Custody Signed?	✓	
Packing Present in Shipping Container?	✓	
Type of Packing bubble wrap		
Custody Seals on Sample Bottles?	✓	
Condition: Good ✓ Broken		
Total Number of Sample Bottles 51	✓	
Total Number of Samples 7	✓	
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks Received?	✓	
No. of Sets 1		
VOA Vials Have Zero Headspace?		
Preservatives Added to Samples?	✓	
pH Check Required?	✓	
Performed By: PM		
Ice Present in Shipping Container?	✓	

Container #	Temperature
1	3°

Project Manager Contacted?
Name: Garth
Date Contacted: 3-11-09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: RSK-175 has only 2 vials instead of 3 which is on the chain

Checklist Completed By: Pat
Date: 3-11-09

VOLATILE ORGANICS

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary
   (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903062

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108777	102	122 *	111	116
BKSD108777	100	120	108	119
BLK108777	99	118	106	106
OUI-16GW01-0309	95	120	102	108
OUI-16GW16-0309	96	103	100	108
OUI-EB-031009	95	113	105	106
OUI-FB-031009	94	118	100	108
OUI-MW50-0309	97	121 *	97	110
OUI-MW51-0309	94	120	101	108
OUI-TB01-0309	97	122 *	96	108

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108777

Lab Name : GPL Laboratories SDG NO : 903062 Method : SW8260LL

Lab Code : GPL Lab Sample ID : BKSD108777 Matrix : WATER Analysis Date : 03/23/2009

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	QC Limits
1,1,1,2-Tetrachloroethane	50	0.0	57	56	114	112	2	25	80-130
1,1,1-Trichloroethane	50	0.0	57	56	114	112	2	25	65-130
1,1,2,2-Tetrachloroethane	50	0.0	50	53	100	106	6	25	65-130
1,1,2-Trichloroethane	50	0.0	61	62	122	124	2	25	75-125
1,1-Dichloroethane	50	0.0	57	56	114	112	2	25	70-135
1,1-Dichloroethene	50	0.0	53	50	104	100	4	25	70-130
1,1-Dichloropropene	50	0.0	50	51	100	102	2	25	75-130
1,2,3-Trichlorobenzene	50	0.0	61	60	122	120	2	25	55-140
1,2,3-Trichloropropane	50	0.0	50	56	100	112	11	25	75-125
1,2,4-Trichlorobenzene	50	0.0	61	58	120	116	3	25	65-135
1,2,4-Trimethylbenzene	50	0.0	54	53	108	106	2	25	75-130
1,2-Dibromo-3-Chloropropane	50	0.0	50	57	100	114	13	25	50-130
1,2-Dichlorobenzene	50	0.0	59	58	118	116	2	25	70-120
1,2-Dichloroethane	50	0.0	51	50	102	100	2	25	70-130
1,2-Dichloropropane	50	0.0	50	51	100	102	2	25	75-125
1,3,5-trimethylbenzene	50	0.0	54	54	108	108	0	25	75-130
1,3-Dichlorobenzene	50	0.0	60	60	120	120	0	25	75-125
1,3-Dichloropropane	50	0.0	50	52	100	104	4	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108777

Lab Name : GPL Laboratories SDG NO : 903062

Lab Code : GPL Lab Sample ID : BKSD108777

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
1,4-Dichlorobenzene	50	0.0	60	60	120	120	0	25	75-125
2,2-Dichloropropane	50	0.0	54	52	108	104	4	25	70-135
2-Butanone	100	0.0	96	99	96	99	3	25	30-150
2-Chlorotoluene	50	0.0	56	56	112	110	2	25	75-125
2-Hexanone	100	0.0	91	96	91	96	5	25	55-130
4-Chlorotoluene	50	0.0	56	56	112	112	0	25	75-130
4-Isopropyltoluene	50	0.0	59	59	118	118	0	25	75-130
4-Methyl-2-Pentanone	100	0.0	92	98	92	98	6	25	60-135
Acetone	100	0.0	93	86	92	86	7	25	40-140
Benzene	50	0.0	48	48	96	96	0	25	80-120
Bromobenzene	50	0.0	60	60	120	120	0	25	75-125
Bromochloromethane	50	0.0	62	65	124	130	5	25	65-130
Bromodichloromethane	50	0.0	59	49	118	98	19	25	75-120
Bromoform	50	0.0	59	60	116	120	3	25	70-130
Bromomethane	50	0.0	120	140	240 *	280 *	15	25	30-145
Carbon Disulfide	50	0.0	46	44	92	88	4	25	35-160
Carbon Tetrachloride	50	0.0	62	61	124	122	2	25	65-140
Chlorobenzene	50	0.0	52	53	104	106	2	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108777

Lab Name : GPL Laboratories SDG NO : 903062

Lab Code : GPL Lab Sample ID : BKSD108777

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Chloroethane	50	0.0	86	90	172 *	180 *	5	25	60-135
Chloroform	50	0.0	53	54	106	108	2	25	65-135
Chloromethane	50	0.0	47	48	92	96	4	25	40-125
Cyclohexane	50	0.0	51	51	100	102	2	25	50-120
Dibromochloromethane	50	0.0	53	52	106	104	2	25	60-135
Dibromomethane	50	0.0	51	50	102	100	2	25	75-125
Dichlorodifluoromethane	50	0.0	57	50	114	100	13	25	30-155
Ethylbenzene	50	0.0	50	49	100	98	2	25	75-125
Ethylene DiBromide	50	0.0	49	50	98	100	2	25	80-120
Freon 113	50	0.0	64	61	128	122	5	25	70-130
Hexachlorobutadiene	50	0.0	65	59	130	118	10	25	50-140
Isopropylbenzene	50	0.0	53	53	106	106	0	25	75-125
Methyl Acetate	50	0.0	44	56	88	112	24	25	50-120
Methylcyclohexane	50	0.0	55	54	108	108	0	25	50-120
Methylene Chloride	50	0.0	48	45	96	90	6	25	55-140
Naphthalene	50	0.0	55	60	110	120	9	25	55-140
Sec-Butylbenzene	50	0.0	56	54	110	108	2	25	70-125
Styrene	50	0.0	51	51	102	102	0	25	65-135

#Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108777

Lab Name : GPL Laboratories SDG NO : 903062

Lab Code : GPL Lab Sample ID : BKSD108777

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Tetrachloroethylene	50	0.0	61	58	122	116	5	25	45-150
Toluene	50	0.0	63	63	126 *	126 *	0	25	75-120
Trichloroethene	50	0.0	49	48	98	96	2	25	70-125
Trichlorofluoromethane	50	0.0	64	51	128	102	23	25	60-145
Vinyl Acetate	50	0.0	43	42	86	84	2	25	41-139
Vinyl Chloride	50	0.0	44	44	88	86	2	25	50-145
cis-1,2-Dichloroethene	50	0.0	48	49	96	98	2	25	70-125
cis-1,3-Dichloropropene	50	0.0	61	61	122	122	0	25	70-130
m,p-Xylene	100	0.0	110	110	110	110	0	25	75-130
n-Butylbenzene	50	0.0	53	51	106	102	4	25	70-135
n-Propylbenzene	50	0.0	52	51	104	102	2	25	70-130
o-Xylene	50	0.0	51	51	102	102	0	25	80-120
tert-Butylbenzene	50	0.0	56	56	112	112	0	25	70-130
tert-butyl methyl ether	50	0.0	57	58	114	116	2	25	65-125
trans-1,2-dichloroethene	50	0.0	52	52	104	104	0	25	60-140
trans-1,3-dichloropropene	50	0.0	59	61	118	122	3	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Lab File ID :	A62437.D	SDG NO :	903062
Date Analyzed	03/23/2009	Lab Sample ID :	BLK108777
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	13:26

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108777	BKS108777	A62439.D	14:18
BKSD108777	BKSD108777	A62445.D	16:20
OUI-16GW01-0309	903062-006-016-1/3	A62457.D	20:25
OUI-16GW16-0309	903062-003-007-1/3	A62451.D	18:22
OUI-EB-031009	903062-001-001-1/3	A62447.D	17:01
OUI-FB-031009	903062-002-004-1/3	A62449.D	17:41
OUI-MW50-0309	903062-005-013-1/3	A62455.D	19:44
OUI-MW51-0309	903062-004-010-1/3	A62453.D	19:03
OUI-TB01-0309	903062-007-019-1/3	A62459.D	21:05

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : General Physics Corp.

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903020

Lab File ID: A62205.D BFB Injection Date : 03/10/2009 BFB Injection Time : 07:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.6	(.8)1
174	50.0 - 120.0% of mass 95	79.6	
175	5.0 - 9.0% of mass 174	5.9	(7.4)1
176	95.0 - 101.0% of mass 174	77.5	(97.3)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL01	CAL01	A62207.D	03/10/2009	08:49
2	CAL05	CAL05	A62209.D	03/10/2009	09:30
3	CAL20	CAL20	A62211.D	03/10/2009	11:03
4	CAL50	CAL50	A62213.D	03/10/2009	11:44
5	CAL100	CAL100	A62215.D	03/10/2009	12:49
6	CAL200	CAL200	A62219.D	03/10/2009	14:22
7	BLK108667	BLK108667	A62221.D	03/10/2009	15:35
8	BKS108667	BKS108667	A62223.D	03/10/2009	16:25
9	TB-030409	903020-001-001-1/2	A62225.D	03/10/2009	17:06
10	EFFg-030409	903020-004-003-1/3	A62227.D	03/10/2009	17:46
11	ACU2-030409	903020-005-006-1/3	A62229.D	03/10/2009	18:27
12	ACU1-030409	903020-006-009-1/3	A62231.D	03/10/2009	19:08

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903062

Lab File ID: A62433.D BFB Injection Date : 03/23/2009 BFB Injection Time : 11:28

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.4	
75	30.0 - 60.0% of mass 95	53.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.1	
173	Less than 2.0% of mass 174	1.3	(1.4)1
174	50.0 - 120.0% of mass 95	87.4	
175	5.0 - 9.0% of mass 174	6.8	(7.8)1
176	95.0 - 101.0% of mass 174	84.8	(97.0)1
177	5.0 - 9.0% of mass 176	6.0	(7.1)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62435.D	03/23/2009	12:32
2	BLK108777	BLK108777	A62437.D	03/23/2009	13:26
3	BKS108777	BKS108777	A62439.D	03/23/2009	14:18
4	BKSD108777	BKSD108777	A62445.D	03/23/2009	16:20
5	OUI-EB-031009	903062-001-001-1/3	A62447.D	03/23/2009	17:01
6	OUI-FB-031009	903062-002-004-1/3	A62449.D	03/23/2009	17:41
7	OUI-16GW16-0309	903062-003-007-1/3	A62451.D	03/23/2009	18:22
8	OUI-MW51-0309	903062-004-010-1/3	A62453.D	03/23/2009	19:03
9	OUI-MW50-0309	903062-005-013-1/3	A62455.D	03/23/2009	19:44
10	OUI-16GW01-0309	903062-006-016-1/3	A62457.D	03/23/2009	20:25
11	OUI-TB01-0309	903062-007-019-1/3	A62459.D	03/23/2009	21:05

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903062

Lab File ID: A62435.D Date Analyzed: 03/23/2009 Time Analyzed: 12:32

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	492839	04.68	584106	07.78	563188	04.56
UPPER LIMIT	985678	05.18	1168212	08.28	1126376	05.06
LOWER LIMIT	246420	04.18	292053	07.28	281594	04.06
Client Sample						
BKS108777	438839	04.68	521407	07.78	493685	04.56
BKSD108777	404890	04.68	484072	07.78	456708	04.55
BLK108777	423226	04.68	486520	07.78	493162	04.56
OUI-16GW01-0309	349573	04.68	415519	07.78	390310	04.55
OUI-16GW16-0309	349400	04.68	417331	07.78	402497	04.55
OUI-EB-031009	403814	04.68	450658	07.78	449090	04.55
OUI-FB-031009	363708	04.68	423540	07.78	415844	04.55
OUI-MW50-0309	349711	04.68	414135	07.78	402875	04.55
OUI-MW51-0309	349547	04.68	414289	07.78	399295	04.55
OUI-TB01-0309	337305	04.68	408896	07.78	391906	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-001-1/3
Sample Volume :	5	Lab File ID :	A62447.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-001-1/3
Sample Volume :	5	Lab File ID :	A62447.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-001-1/3
Sample Volume :	5	Lab File ID :	A62447.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62447.D
Acq On : 23 Mar 2009 17:01
Operator : SM
Sample : 903062-001
Misc : OUI-EB-031009,CH2M HILL,WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 24 18:39:57 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

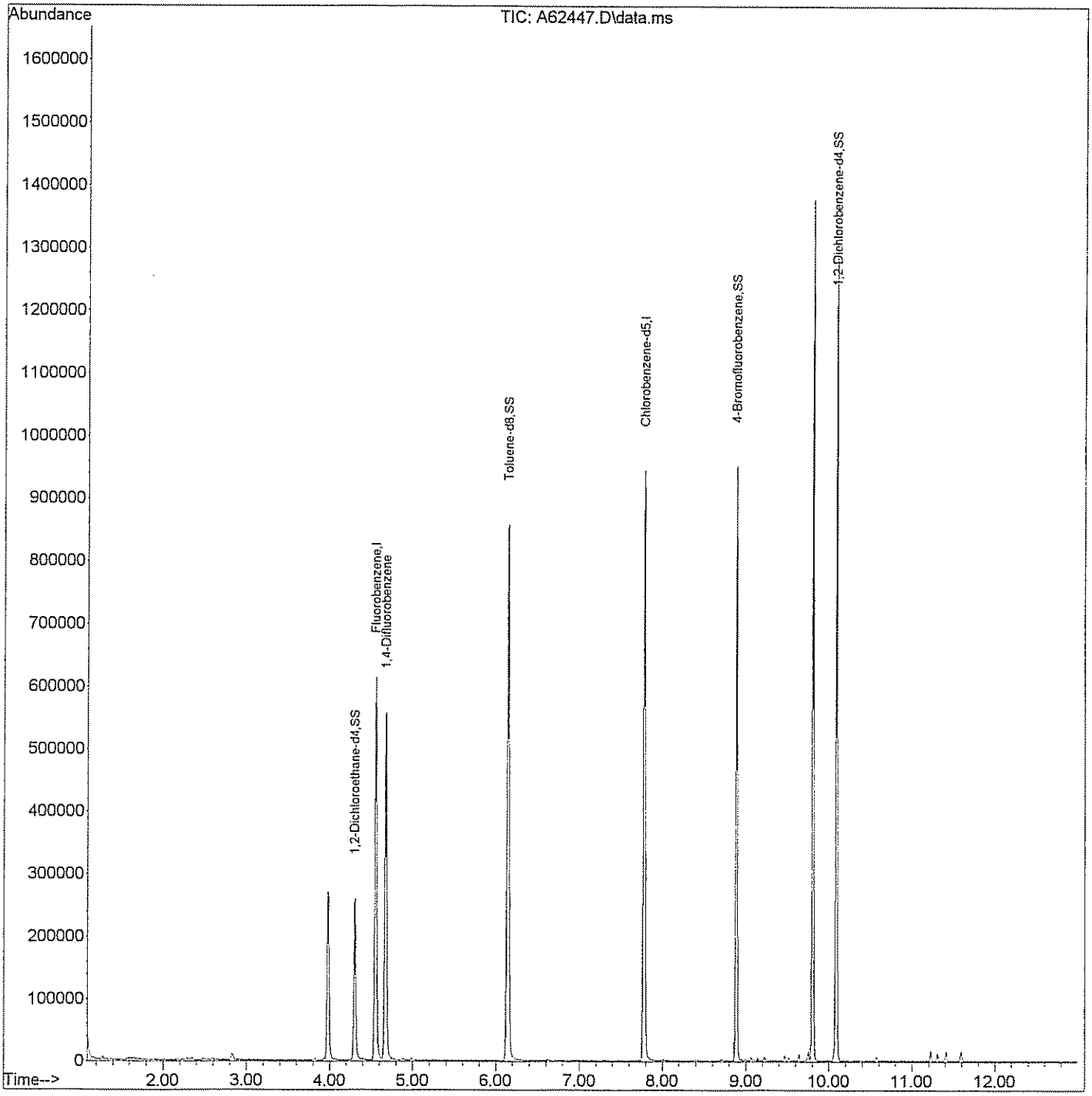
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	449090	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	403814	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	450658	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	124771	52.30	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.60%			
54) Toluene-d8	6.142	98	530565	56.70	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 113.40%			
76) 4-Bromofluorobenzene	8.881	95	201048	47.33	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.66%			
92) 1,2-Dichlorobenzene-d4	10.085	152	221432	53.15	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 106.30%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62447.D
Acq On : 23 Mar 2009 17:01
Operator : SM
Sample : 903062-001
Misc : OUI-EB-031009,CH2M HILL,WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 24 18:39:57 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-004-1/3
Sample Volume :	5	Lab File ID :	A62449.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-004-1/3
Sample Volume :	5	Lab File ID :	A62449.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-004-1/3
Sample Volume :	5	Lab File ID :	A62449.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62449.D
Acq On : 23 Mar 2009 17:41
Operator : SM
Sample : 903062-002
Misc : OUI-FB-031009,CH2M HILL,WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 25 08:44:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

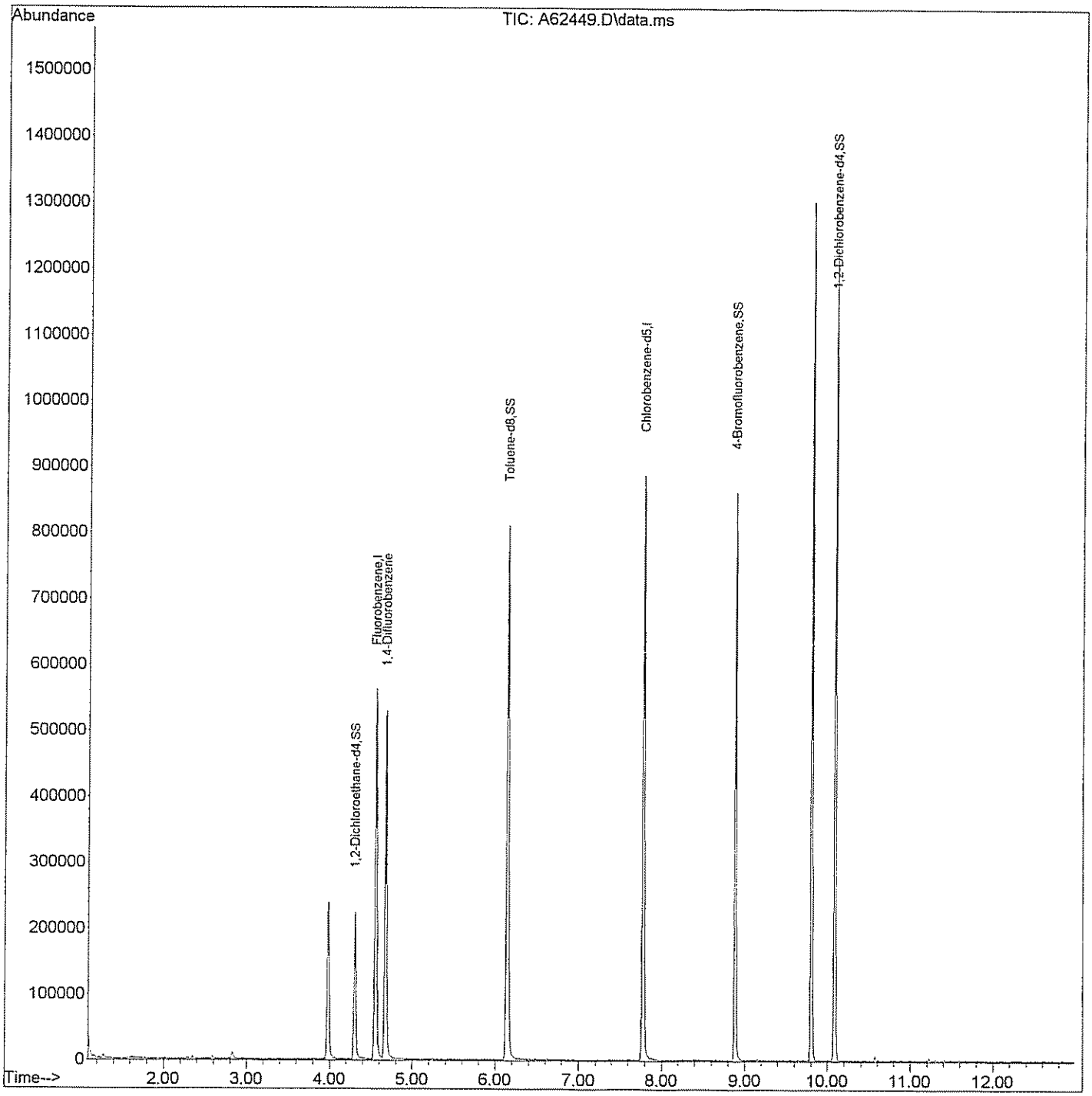
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	415844	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	363708	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	423540	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	110862	50.18	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.36%			
54) Toluene-d8	6.142	98	495343	58.77	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 117.54%			
76) 4-Bromofluorobenzene	8.881	95	188498	47.21	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.42%			
92) 1,2-Dichlorobenzene-d4	10.085	152	211209	53.94	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.88%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62449.D
Acq On : 23 Mar 2009 17:41
Operator : SM
Sample : 903062-002
Misc : OUI-FB-031009,CH2M HILL,WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 25 08:44:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-007-1/3
Sample Volume :	5	Lab File ID :	A62451.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-007-1/3
Sample Volume :	5	Lab File ID :	A62451.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	16	
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	2.6	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	2.3	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-007-1/3
Sample Volume :	5	Lab File ID :	A62451.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62451.D
Acq On : 23 Mar 2009 18:22
Operator : SM
Sample : 903062-003
Misc : OUI-16GW16-0309,CH2M HILL,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 24 18:42:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

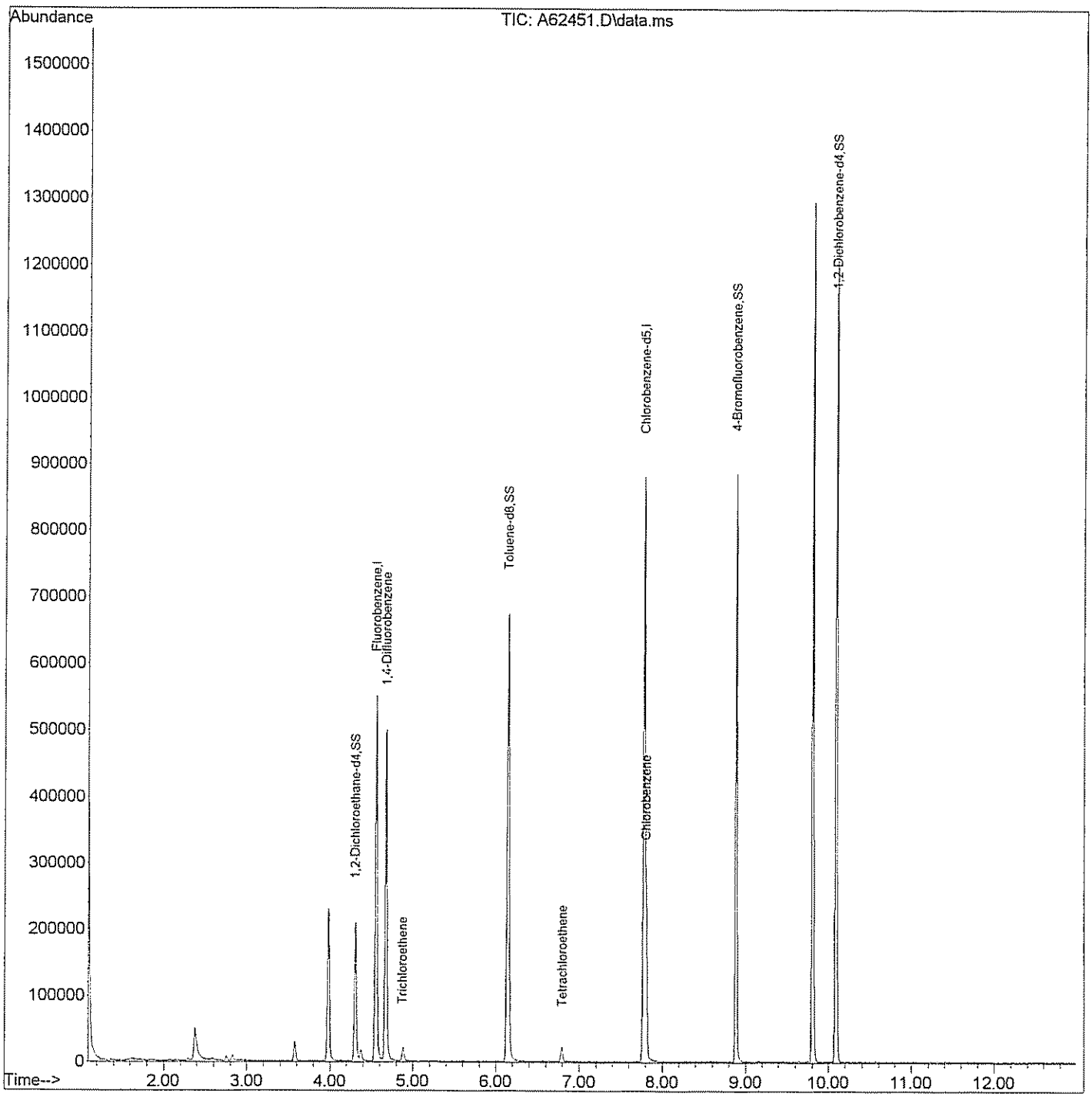
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	402497	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	349400	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	417331	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	107356	50.21	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.42%			
54) Toluene-d8	6.142	98	415539	51.32	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 102.64%			
76) 4-Bromofluorobenzene	8.881	95	188825	48.00	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.00%			
92) 1,2-Dichlorobenzene-d4	10.085	152	208177	53.96	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.92%			
Target Compounds						Qvalue
47) Trichloroethene	4.880	95	4418	2.33	ug/L #	67
62) Tetrachloroethene	6.800	166	6195	2.58	ug/L	93
67) Chlorobenzene	7.806	112	111696	15.79	ug/L	90

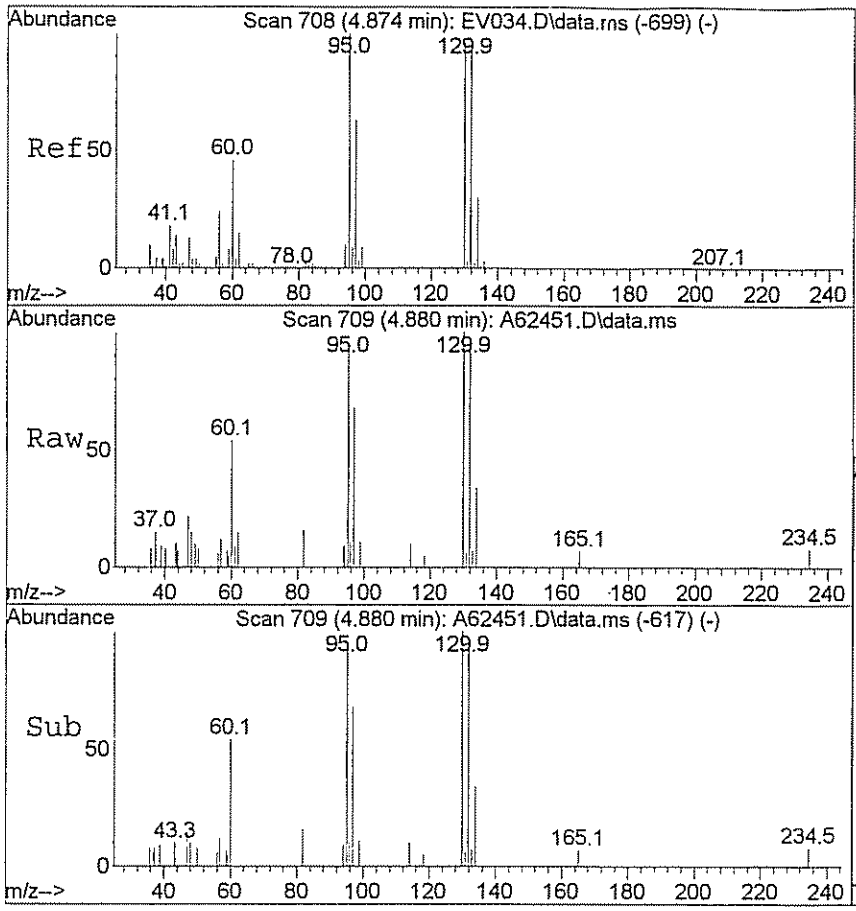
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62451.D
Acq On : 23 Mar 2009 18:22
Operator : SM
Sample : 903062-003
Misc : OUI-16GW16-0309,CH2M HILL,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 24 18:42:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

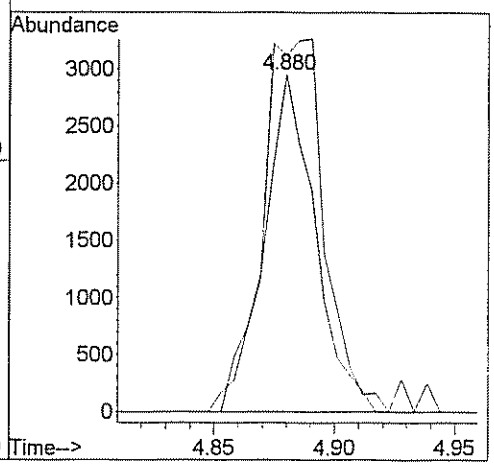


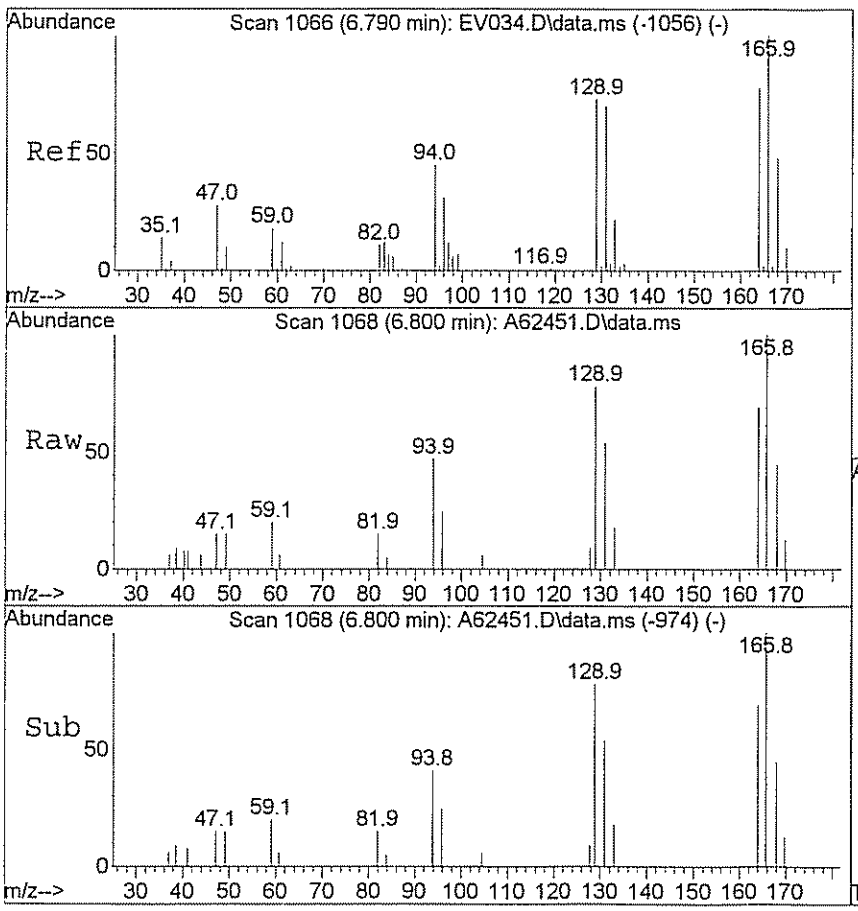


#47
Trichloroethene
Concen: 2.33 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62451.D
Acq: 23 Mar 2009 18:22

Tgt Ion: 95 Resp: 4418

Ion	Ratio	Lower	Upper
95	100		
130	132.2	79.7	119.5#

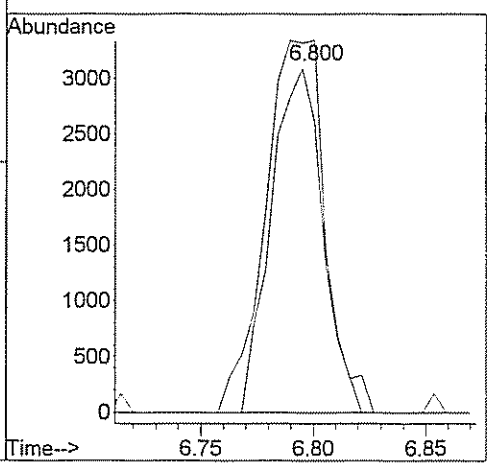


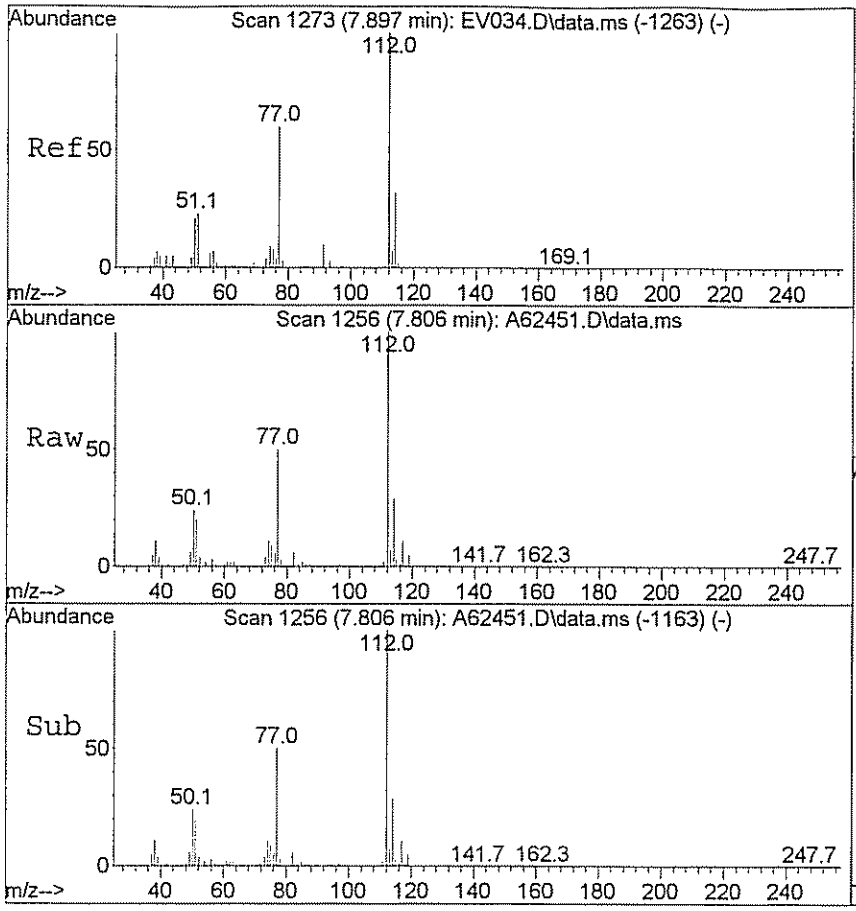


#62
Tetrachloroethene
Concen: 2.58 ug/L
RT: 6.800 min Scan# 1068
Delta R.T. 0.005 min
Lab File: A62451.D
Acq: 23 Mar 2009 18:22

Tgt Ion:166 Resp: 6195

Ion	Ratio	Lower	Upper
166	100		
129	79.6	58.6	88.0

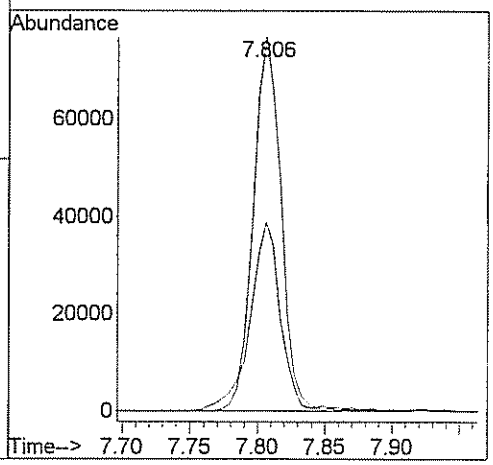




#67
Chlorobenzene
Concen: 15.79 ug/L
RT: 7.806 min Scan# 1256
Delta R.T. 0.000 min
Lab File: A62451.D
Acq: 23 Mar 2009 18:22

Tgt Ion:112 Resp: 111696

Ion	Ratio	Lower	Upper
112	100		
77	54.3	49.6	74.4



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-010-1/3
Sample Volume :	5	Lab File ID :	A62453.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-010-1/3
Sample Volume :	5	Lab File ID :	A62453.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-010-1/3
Sample Volume :	5	Lab File ID :	A62453.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62453.D
Acq On : 23 Mar 2009 19:03
Operator : SM
Sample : 903062-004
Misc : OUI-MW51-0309,CH2M HILL,WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 24 18:44:28 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	399295	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	349547	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	414289	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	107253	50.56	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.12%			
54) Toluene-d8	6.142	98	486367	60.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 120.10%#			
76) 4-Bromofluorobenzene	8.881	95	183978	47.11	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.22%			
92) 1,2-Dichlorobenzene-d4	10.085	152	206863	54.01	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 108.02%			

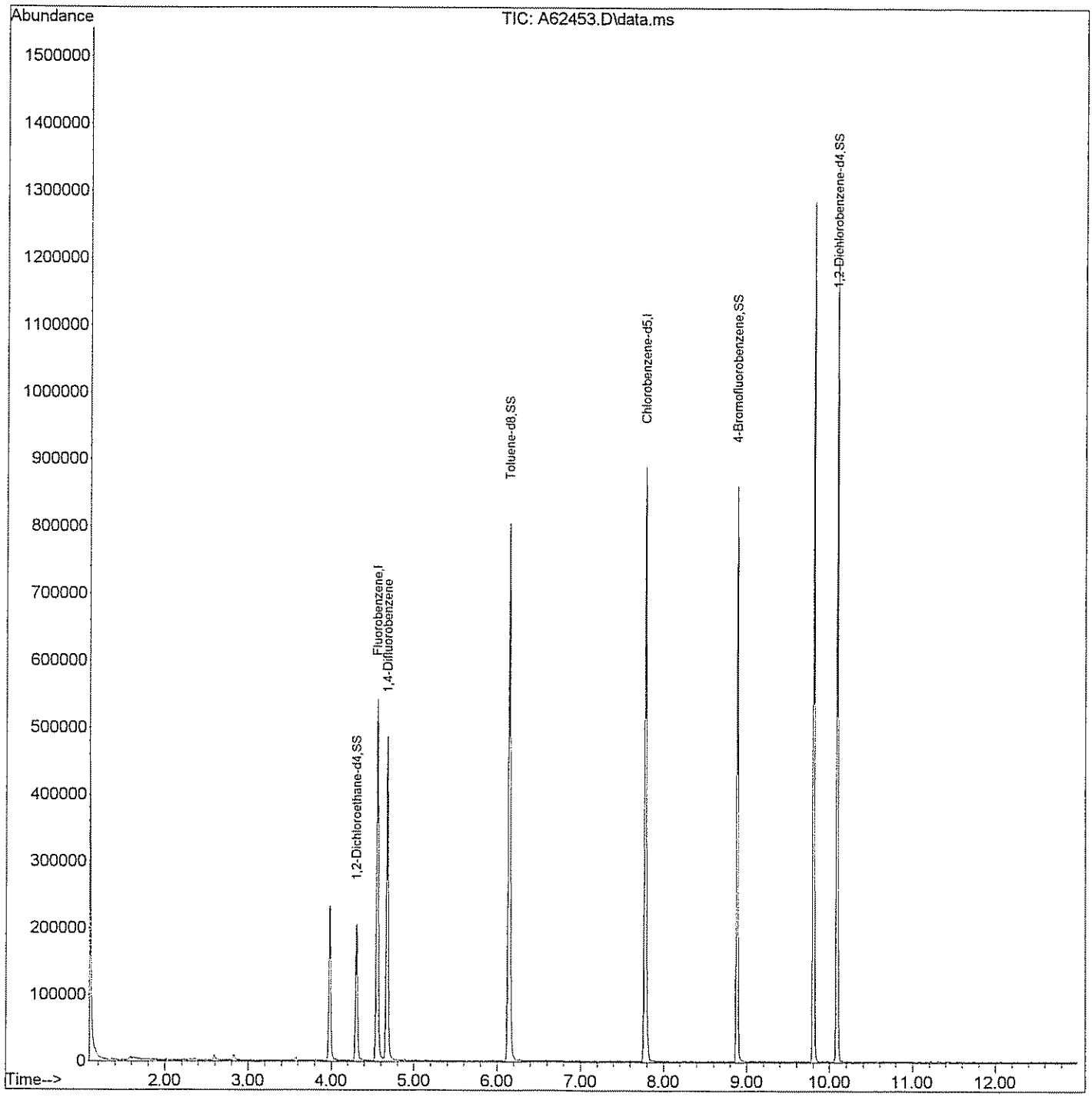
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62453.D
Acq On : 23 Mar 2009 19:03
Operator : SM
Sample : 903062-004
Misc : OUI-MW51-0309,CH2M HILL,WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 24 18:44:28 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-013-1/3
Sample Volume :	5	Lab File ID :	A62455.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-013-1/3
Sample Volume :	5	Lab File ID :	A62455.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-013-1/3
Sample Volume :	5	Lab File ID :	A62455.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62455.D
Acq On : 23 Mar 2009 19:44
Operator : SM
Sample : 903062-005
Misc : OUI-MW5D-0309,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 24 18:45:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

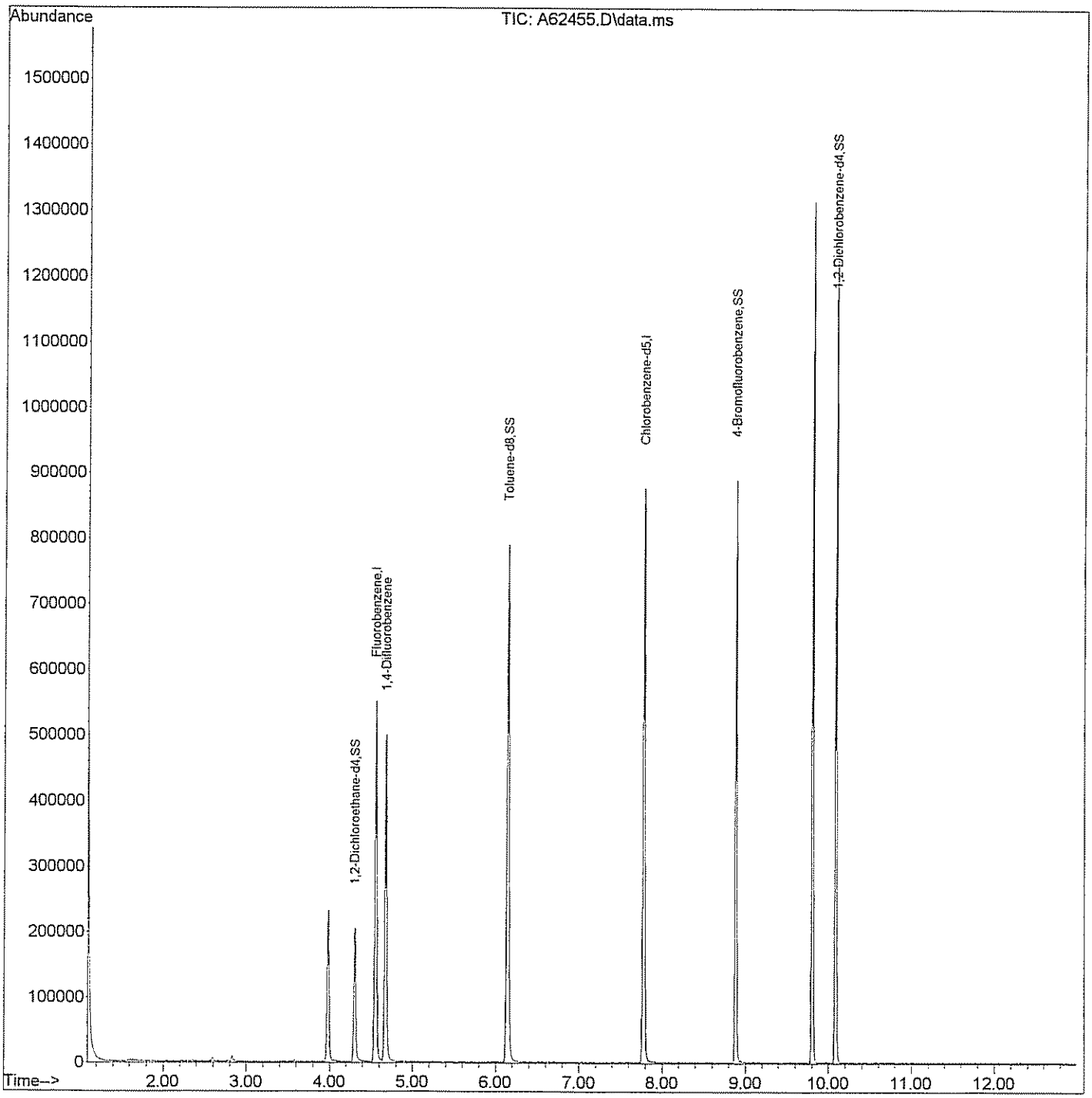
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	402875	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	349711	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	414135	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	103730	48.47	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.94%			
54) Toluene-d8	6.142	98	488829	60.32	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 120.64%#			
76) 4-Bromofluorobenzene	8.881	95	189654	48.58	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.16%			
92) 1,2-Dichlorobenzene-d4	10.085	152	211344	55.20	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 110.40%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62455.D
Acq On : 23 Mar 2009 19:44
Operator : SM
Sample : 903062-005
Misc : OUI-MW5D-0309,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 24 18:45:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-016-1/3
Sample Volume :	5	Lab File ID :	A62457.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-016-1/3
Sample Volume :	5	Lab File ID :	A62457.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-016-1/3
Sample Volume :	5	Lab File ID :	A62457.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62457.D
Acq On : 23 Mar 2009 20:25
Operator : SM
Sample : 903062-006
Misc : OUI-16GW01-0309,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 24 18:47:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	390310	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	349573	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	415519	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	105947	51.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.18%			
54) Toluene-d8	6.142	98	487272	60.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 120.30%#			
76) 4-Bromofluorobenzene	8.881	95	186841	47.70	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.40%			
92) 1,2-Dichlorobenzene-d4	10.085	152	208330	54.23	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 108.46%			

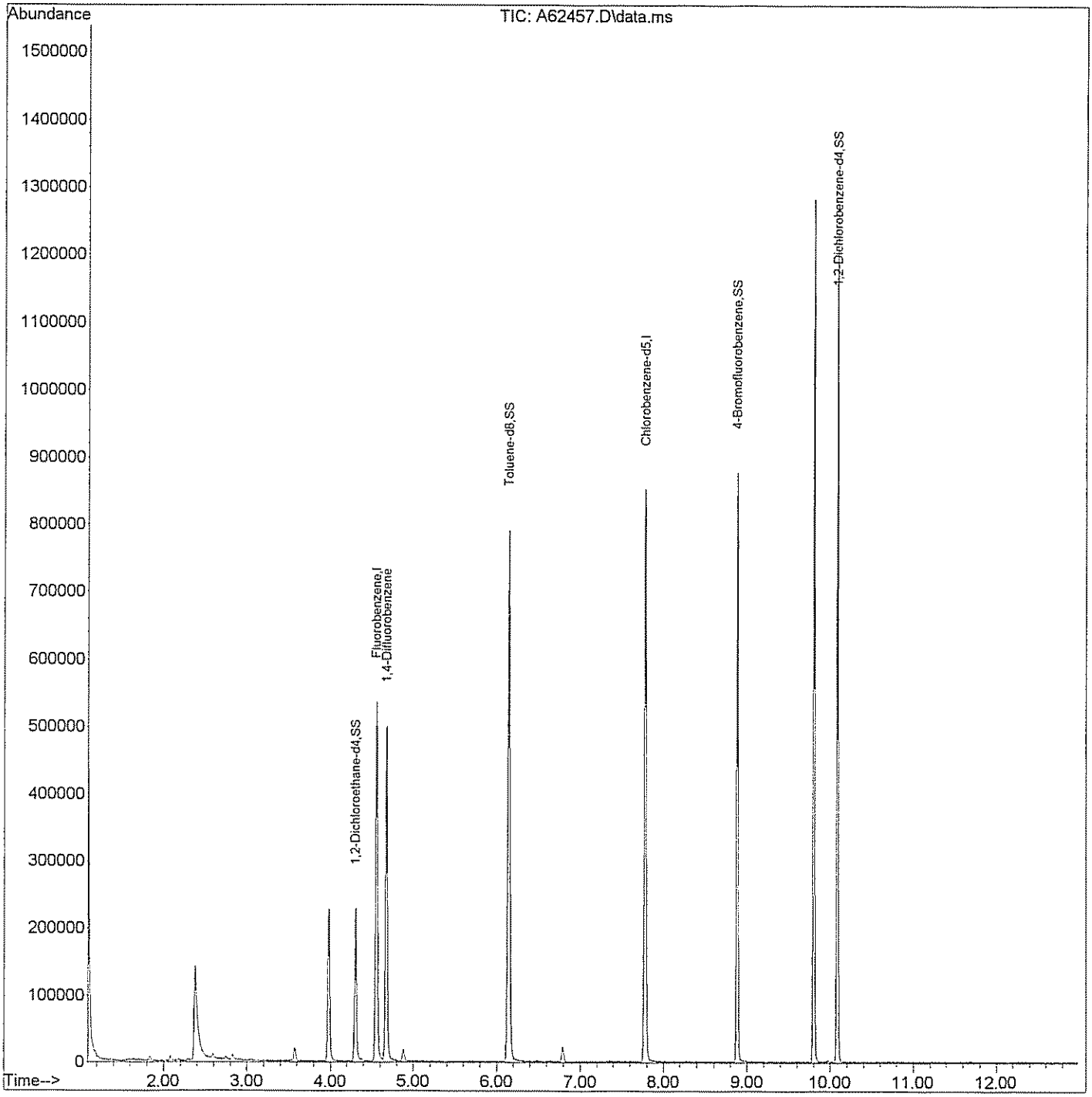
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62457.D
Acq On : 23 Mar 2009 20:25
Operator : SM
Sample : 903062-006
Misc : OUI-16GW01-0309,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 24 18:47:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-007-019-1/3
Sample Volume :	5	Lab File ID :	A62459.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-007-019-1/3
Sample Volume :	5	Lab File ID :	A62459.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-007-019-1/3
Sample Volume :	5	Lab File ID :	A62459.D
Level :	Low	Date Received	03/11/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62459.D
Acq On : 23 Mar 2009 21:05
Operator : SM
Sample : 903062-007
Misc : OUI-TB01-0309,CH2M HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 24 18:48:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	391906	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	337305	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	408896	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	100105	48.08	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.16%			
54) Toluene-d8	6.142	98	476448	60.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 121.92%#			
76) 4-Bromofluorobenzene	8.881	95	186808	48.47	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.94%			
92) 1,2-Dichlorobenzene-d4	10.085	152	203981	53.96	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.92%			

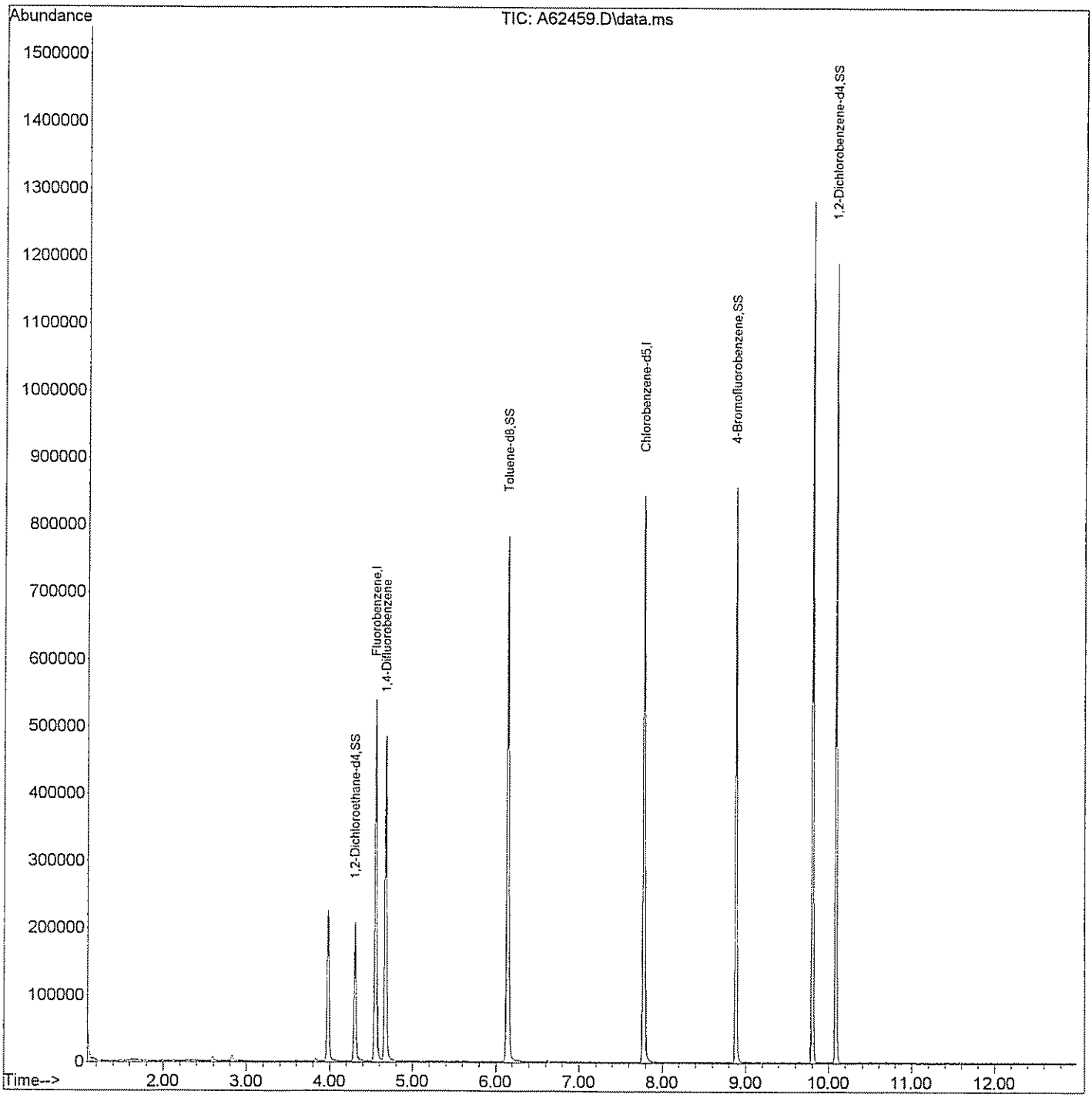
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62459.D
Acq On : 23 Mar 2009 21:05
Operator : SM
Sample : 903062-007
Misc : OUI-TB01-0309,CH2M HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 24 18:48:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 08:06:42 2009
Response Via : Initial Calibration

Calibration Files
1 =A62207.D 5 =A62209.D 20 =A62211.D 50 =A62213.D 100 =A62215.D
200 =A62219.D

		Compound	1	5	20	50	100	200	Avg	%R SD
1)	I	Fluorobenzene	----------	ISTD	----------					
2)		Dichlorodifluo...	0.067	0.085	0.103	0.098		0.090	0.089	15.40
3)		Chloromethane	0.188	0.181	0.173	0.145	0.159	0.199	0.174	11.27
4)		Vinyl chloride	0.220	0.190	0.192	0.211	0.214	0.214	0.207	6.19
5)		Bromomethane	0.218	0.069	0.099	0.078	0.114		0.115	~~51.60~~ r^2=0.9[illegible]
6)		Chloroethane		0.144	0.142	0.142	0.141	0.157	0.145	4.69
7)		Trichlorofluor...	0.154	0.245	0.282	0.290	0.307		0.256	~~23.94~~ r^2=0.999
8)		Ethyl Ether	0.163	0.157	0.165	0.189	0.188	0.206	0.178	10.84
9)		Freon 113	0.153	0.135	0.174	0.165		0.165	0.158	9.58
10)		Acrolein		0.037	0.031	0.036	0.035	0.040	0.036	9.22
11)		Tert-Butyl alc...	0.016	0.021	0.018	0.026	0.021		0.020	18.36
12)		1,1-Dichloroet...	0.177	0.162	0.167	0.188	0.193	0.202	0.182	8.55
13)		Iodomethane	0.457	0.111	0.200	0.091	0.247	0.161	0.211	63.20
14)		Acetonitrile	0.079	0.075	0.093	0.124	0.139	0.138	0.108	~~26.99~~ r^2=0.999
15)		Methylene chlo...	0.375	0.222	0.213	0.224	0.235	0.243	0.252	~~24.26~~ r^2=0.999
16)		Trans-1,2-dich...	0.209	0.186	0.197	0.221	0.230		0.209	8.57
17)		Isopropyl ether	0.794	0.717	0.779	0.874	0.894		0.812	8.93
18)		1,1-Dichloroet...	0.325	0.334	0.368	0.411	0.431		0.374	12.44
19)		Acetone	0.151	0.086	0.070	0.091	0.084	0.086	0.095	~~30.23~~ r^2=0.999
20)		Methyl Acetate	0.225	0.217	0.185	0.256		0.048	0.186	~~43.60~~ r^2=0.973
21)		MTBE	0.473	0.510	0.527	0.610	0.604		0.545	11.02
22)		Carbon disulfide	1.024	0.568	0.589	0.610	0.643	0.638	0.679	~~25.30~~ r^2=0.999
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile		0.059	0.058	0.067	0.062	0.071	0.063	8.81
25)		Chloroprene	0.352	0.318	0.337	0.354	0.398	0.383	0.357	8.23
26)	T	n-Heptane	0.229	0.156	0.188	0.173	0.184	0.166	0.183	14.14
27)		2,2-Dichloropr...	0.284	0.268		0.334	0.340	0.338	0.313	10.86
28)		Cis-1,2-dichlo...	0.280	0.214		0.253	0.263	0.256	0.253	9.47
29)		1,2-dichloroet...	0.366		0.223	0.242	0.248	0.260	0.268	21.04
30)		Propionitrile	0.028	0.029	0.028	0.035	0.031	0.036	0.031	11.14
31)		Bromochloromet...	0.088	0.091	0.107	0.119	0.122	0.129	0.109	15.51
32)		Tetrahydrofuran	0.047	0.049	0.049	0.055	0.049	0.059	0.051	9.52
33)		Chloroform	0.515	0.347	0.353	0.399	0.446	0.498	0.426	16.82
34)		Cyclohexane	0.560	0.302	0.371	0.358	0.395	0.363	0.392	~~22.17~~ r^2=0.998
35)		1,1,1-Trichlor...	0.289	0.274	0.307	0.333	0.343	0.363	0.318	10.68
36)		Carbon tetrach...	0.218	0.240	0.265	0.290	0.310	0.313	0.272	14.18
37)		Methacrylonitrile	0.141		0.144	0.175	0.176	0.213	0.170	17.12
38)		Methylcyclohexane	0.360	0.292	0.354	0.333	0.373	0.318	0.338	8.82
39)		Isobutyl Alcohol	0.011	0.014	0.017	0.016		0.015	0.015	15.42
40)	SS	1,2-Dichloroet...	0.258	0.262	0.263	0.265	0.265	0.282	0.266	3.13
41)		1,4-Difluorobenzene	----------	ISTD	----------					
42)		2-Butanone	0.150	0.152	0.146	0.185	0.166	0.178	0.163	9.84

Response Factor Report Instrument A

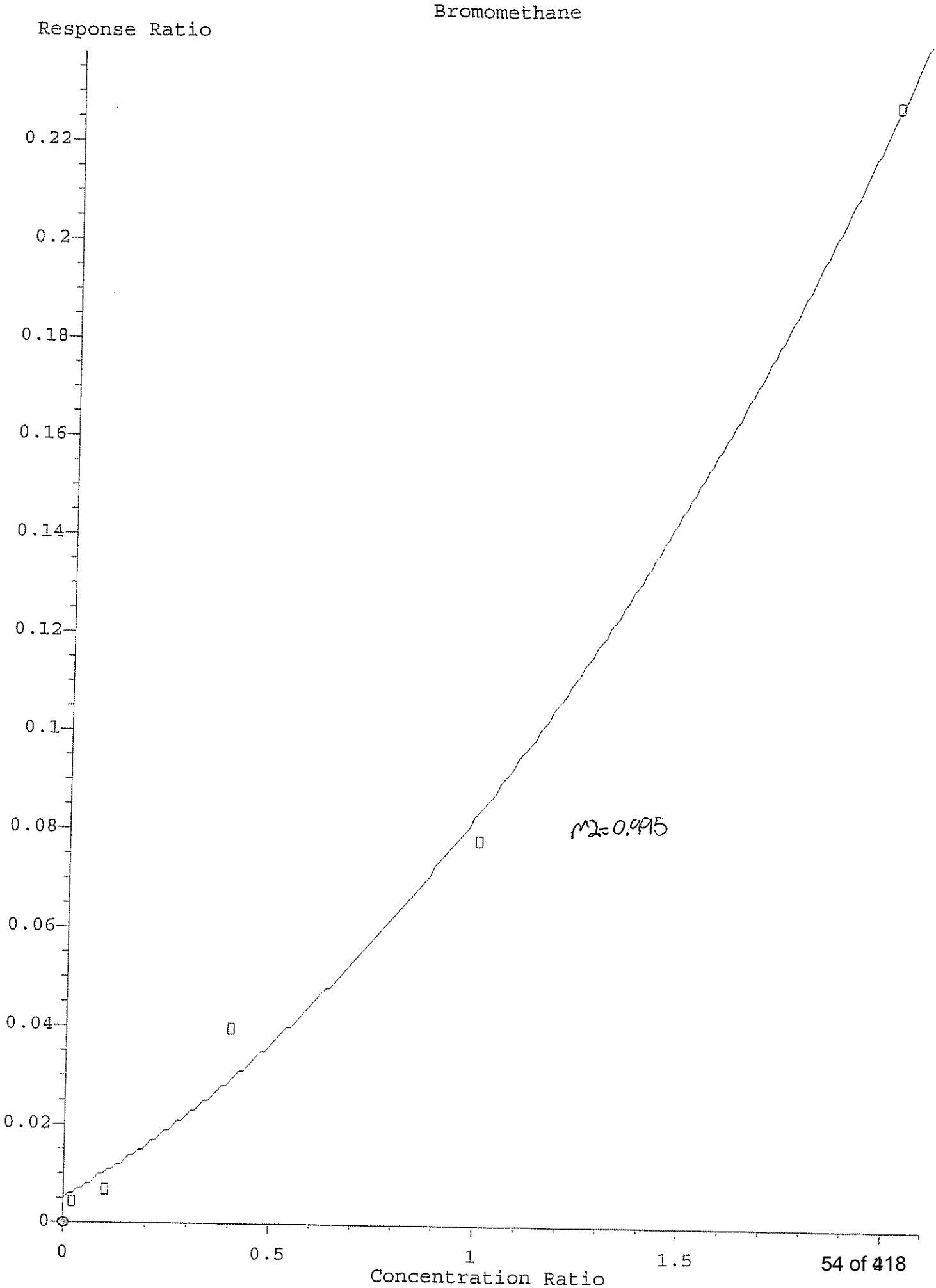
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

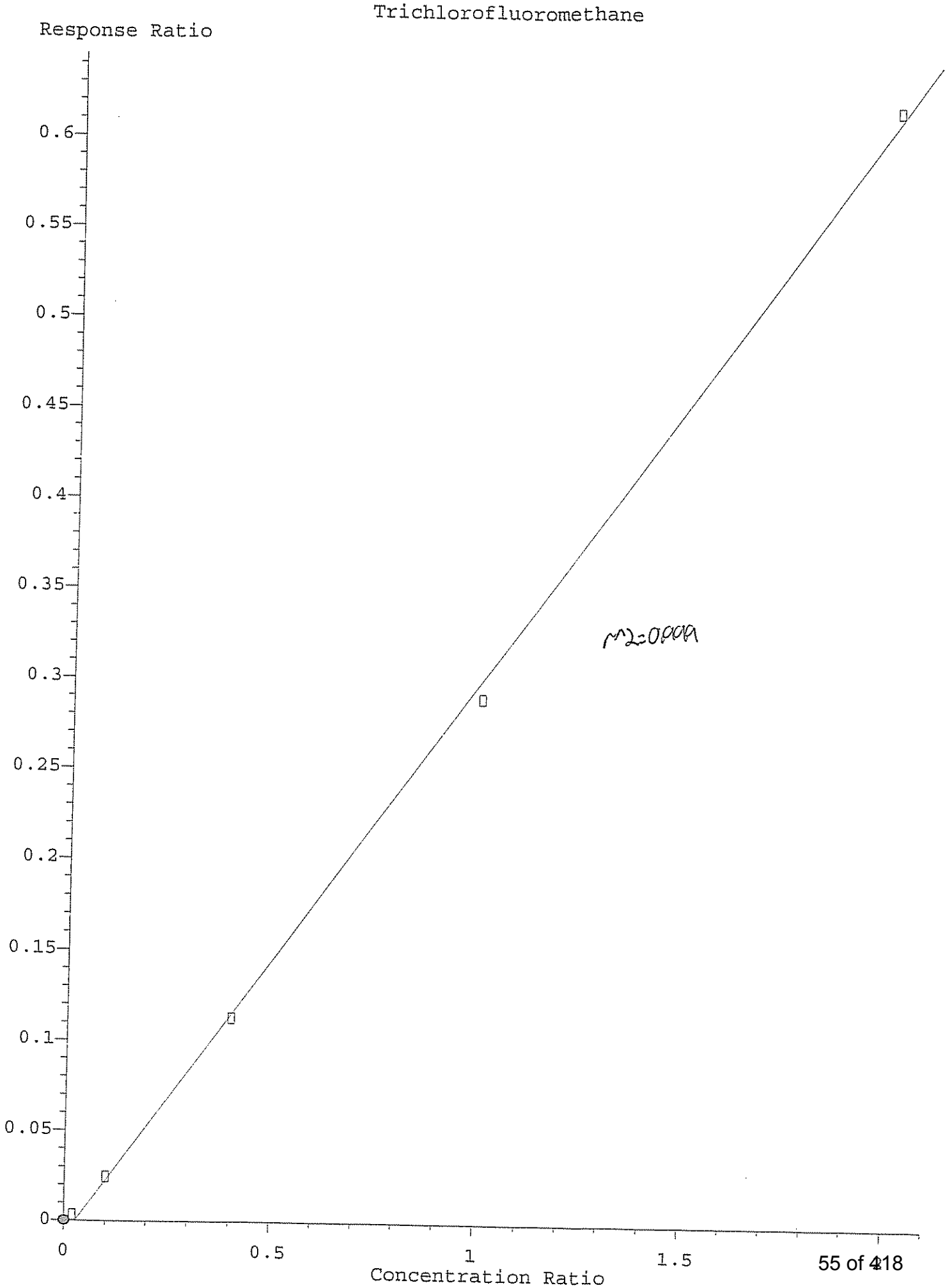
43)		1,1-Dichloropr...	0.270	0.305	0.331	0.370	0.377	0.381	0.339	13.34
44)		Vinyl Acetate	0.369	0.357		0.401	0.394	0.386	0.381	4.81
45)		Benzene	0.924	0.932	1.027	1.118	1.156	1.192	1.058	10.86
46)		1,2-Dichloroet...	0.277	0.295	0.324	0.359	0.360	0.376	0.332	12.02
47)		Trichloroethene	0.269	0.243	0.263	0.278	0.289	0.289	0.272	6.46
48)		1,2-Dichloropr...	0.226	0.230	0.263	0.298	0.305	0.305	0.271	13.65
49)		Methyl methacr...	0.215	0.205	0.171	0.201	0.185	0.202	0.196	8.01
50)		Dibromomethane	0.171	0.151	0.147	0.176	0.172	0.184	0.167	8.78
51)		Bromodichlorom...	0.338	0.315	0.334	0.376	0.376	0.385	0.354	8.07
52)		2-Chloroethylv...	0.027	0.143	0.149	0.165	0.057	0.106	0.108	51.45
53)		Cis-1,3-dichlo...	0.340	0.361		0.469	0.471	0.491	0.427	16.46
54)	SS	Toluene-d8	1.125	1.133	1.141	1.158	1.177	1.218	1.159	2.99
55)		Toluene	0.589	0.599	0.664	0.740	0.763	0.807	0.694	13.02
56)		Trans-1,3-dich...	0.273	0.355		0.433	0.417	0.455	0.387	18.95
57)		Ethyl methacry...	0.347	0.304	0.324	0.365	0.358	0.385	0.347	8.47
58)		1,1,2-Trichlor...	0.183	0.186		0.220	0.217	0.234	0.208	10.71
59)	I	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
60)		4-Methyl-2-pen...	0.272	0.284	0.284	0.321	0.289	0.300	0.292	5.85
61)		2-Hexanone	0.175	0.219	0.196	0.238	0.214	0.220	0.210	10.29
62)		Tetrachloroethene	0.228	0.256	0.285	0.305	0.324	0.332	0.288	13.99
63)		1,3-Dichloropr...	0.361	0.399	0.395	0.451	0.441	0.448	0.416	8.74
64)		Dibromochlorom...	0.245	0.291	0.291	0.322	0.324	0.334	0.301	10.93
65)		1,2-Dibromoethane	0.246	0.242	0.248	0.270	0.266	0.271	0.257	5.13
66)		1-Chlorohexane	0.470	0.400	0.409	0.437	0.441	0.437	0.432	5.79
67)		Chlorobenzene	0.748	0.753	0.821	0.906	0.935	0.925	0.848	10.10
68)		1,1,1,2-Tetrac...	0.248	0.259	0.292	0.328	0.342	0.354	0.304	14.65
69)		Ethylbenzene	1.318	1.300	1.394	1.507	1.582	1.607	1.451	9.15
70)		m,p-Xylene	0.510	0.513	0.560	0.618	0.648		0.570	10.86
71)		o-Xylene	0.551	0.505	0.566	0.601	0.624	0.620	0.578	7.95
72)		Xylene (Total)	0.524	0.511	0.564	0.613	0.641	0.662	0.586	10.68
73)		Styrene	0.827	0.857	0.930	1.024	1.062	1.060	0.960	10.80
74)		Bromoform	0.149	0.175	0.176	0.212	0.200	0.209	0.187	13.15
75)		Isopropylbenzene	1.052	1.108	1.196	1.299	1.367	1.346	1.228	10.60
76)	SS	4-Bromofluorob...	0.468	0.466	0.474	0.477	0.477	0.465	0.471	1.16
77)		Bromobenzene	0.300	0.296	0.326	0.356	0.370	0.370	0.336	10.07
78)		1,1,2,2-Tetrac...	0.317	0.314	0.308	0.356	0.339	0.347	0.330	6.00
79)		1,2,3-Trichlor...	0.091	0.103	0.091	0.105	0.098	0.101	0.098	6.04
80)		n-Propylbenzene	1.522	1.538	1.655	1.792	1.853	1.840	1.700	8.79
81)		Trans-1,4-dich...	0.066	0.099	0.064	0.109	0.074	0.088	0.083	~~21.93~~ M2=0.987
82)		2-Chlorotoluene	0.338	0.323	0.352	0.384	0.388	0.378	0.361	7.43
83)		4-Chlorotoluene	0.354	0.335	0.356	0.391	0.407	0.403	0.374	7.96
84)		1,3,5-Trimethy...	1.021	1.048	1.163	1.281	1.369	1.359	1.207	12.65
85)		Tert-butylbenzene	0.855	0.919	1.011	1.122	1.196	1.189	1.049	13.66
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.051	1.091	1.184	1.318	1.418	1.460	1.254	13.63
88)		Sec-Butylbenzene	1.363	1.379	1.554	1.726	1.836	1.785	1.607	12.83
89)		1,3-Dichlorobe...	0.581	0.583	0.663	0.740	0.804	0.864	0.706	16.56
90)		4-Isopropyltol...	1.162	1.185	1.338	1.507	1.641		1.367	15.11
91)		1,4-Dichlorobe...	0.581	0.624	0.679	0.749	0.800	0.815	0.708	13.52
92)	SS	1,2-Dichlorobe...	0.439	0.440	0.457	0.465	0.487	0.486	0.462	4.56
93)		1,2-Dichlorobe...	0.614	0.556		0.688	0.756	0.756	0.674	13.10
94)		n-Butylbenzene	1.300	1.191	1.253	1.396	1.500	1.454	1.349	8.94
95)		1,2-Dibromo-3-...	0.051	0.056	0.051	0.062	0.057	0.063	0.057	9.21
96)		1,2,4-Trichlor...	0.405	0.335	0.363	0.417	0.452	0.481	0.409	13.24

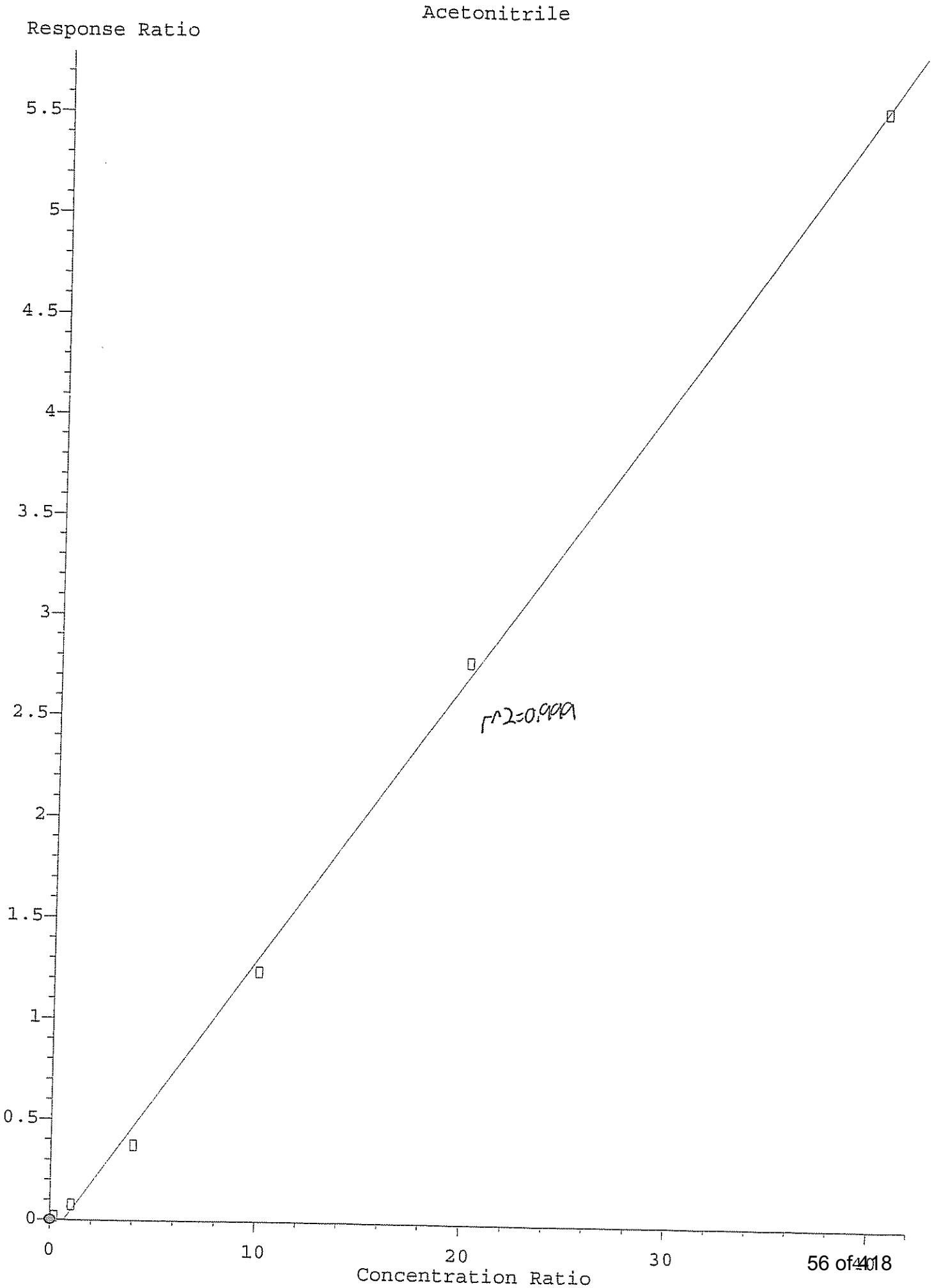
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

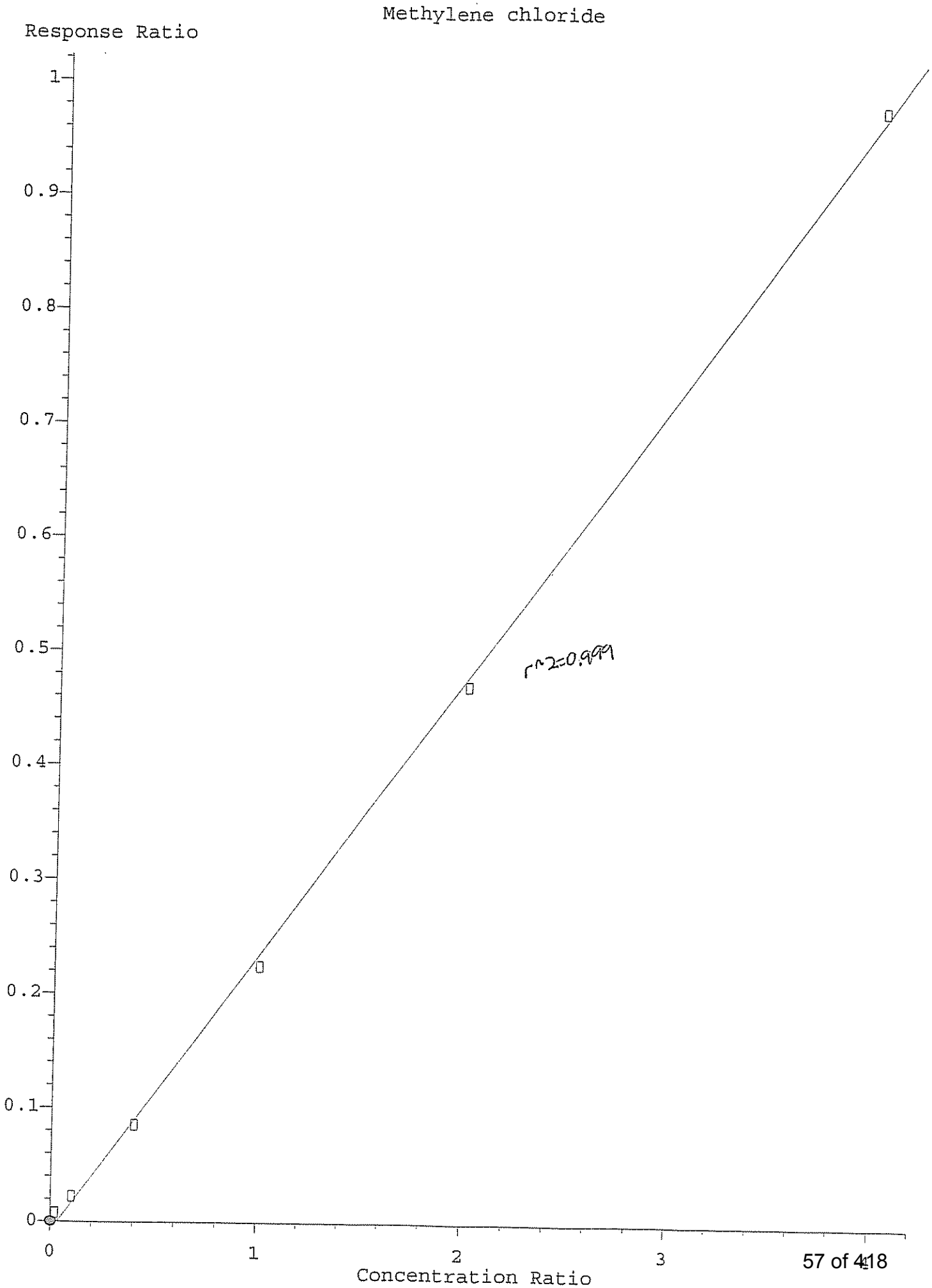
97)	Hexachlorobuta...	0.192	0.145	0.170	0.197	0.215	0.224	0.190	15.45
98)	Naphthalene	0.824	0.898	0.877	1.102	1.033	1.113	0.975	12.73
99)	1,2,3-Trichlor...	0.323	0.289	0.308	0.362	0.371	0.400	0.342	12.35

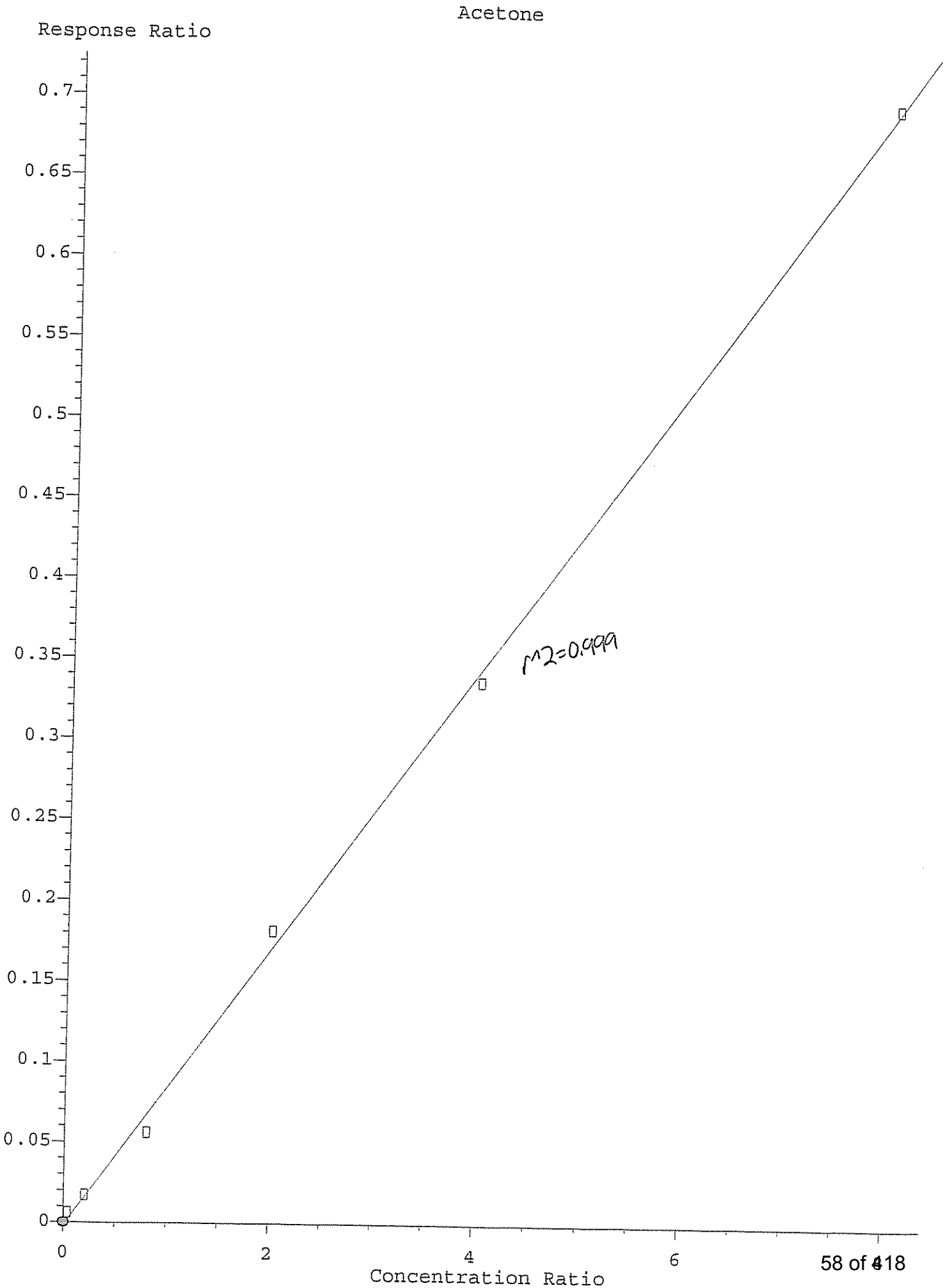
(#) = Out of Range

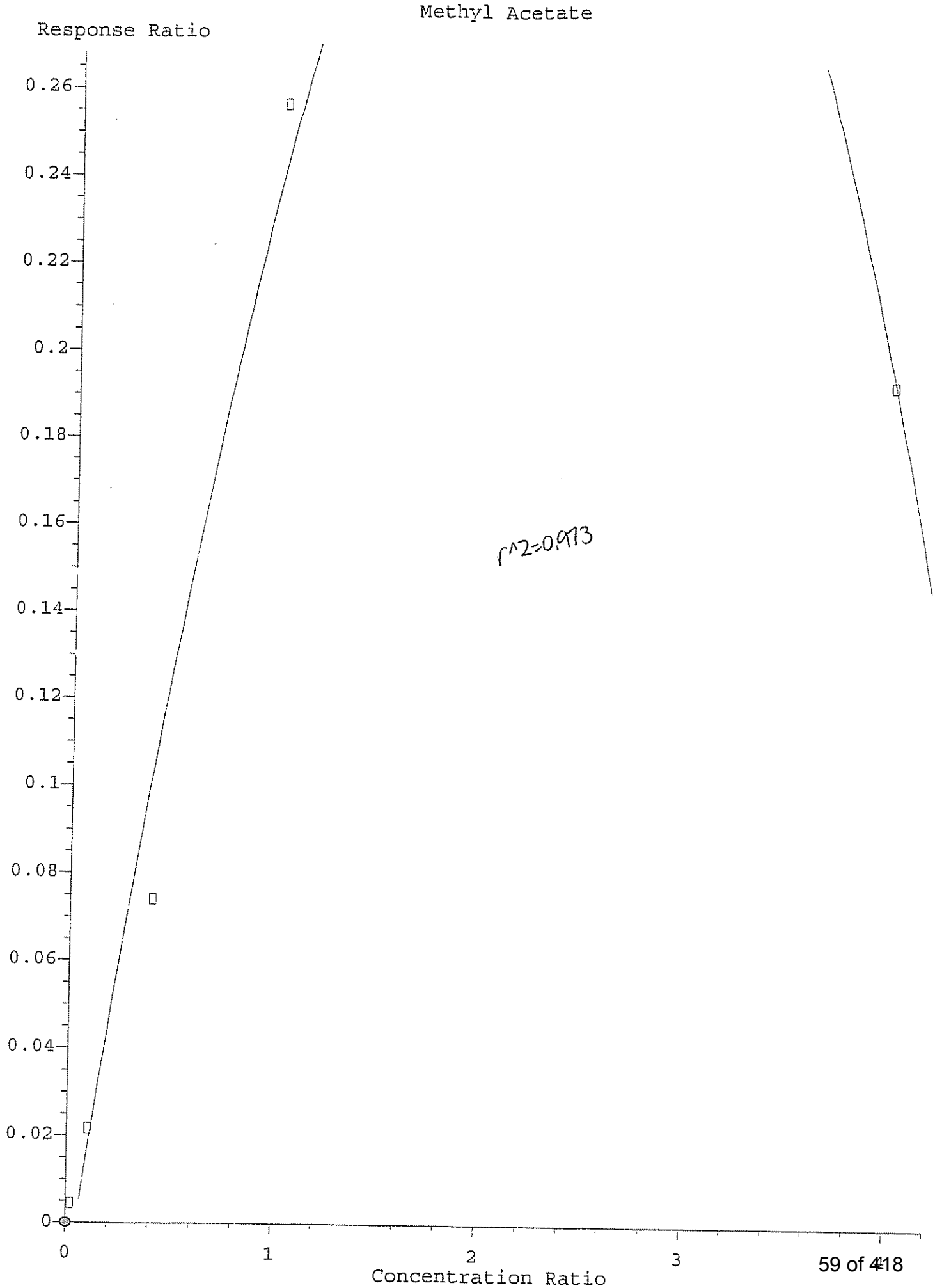

Bromomethane
Response Ratio
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.5
1
1.5
Concentration Ratio
r^2=0.995

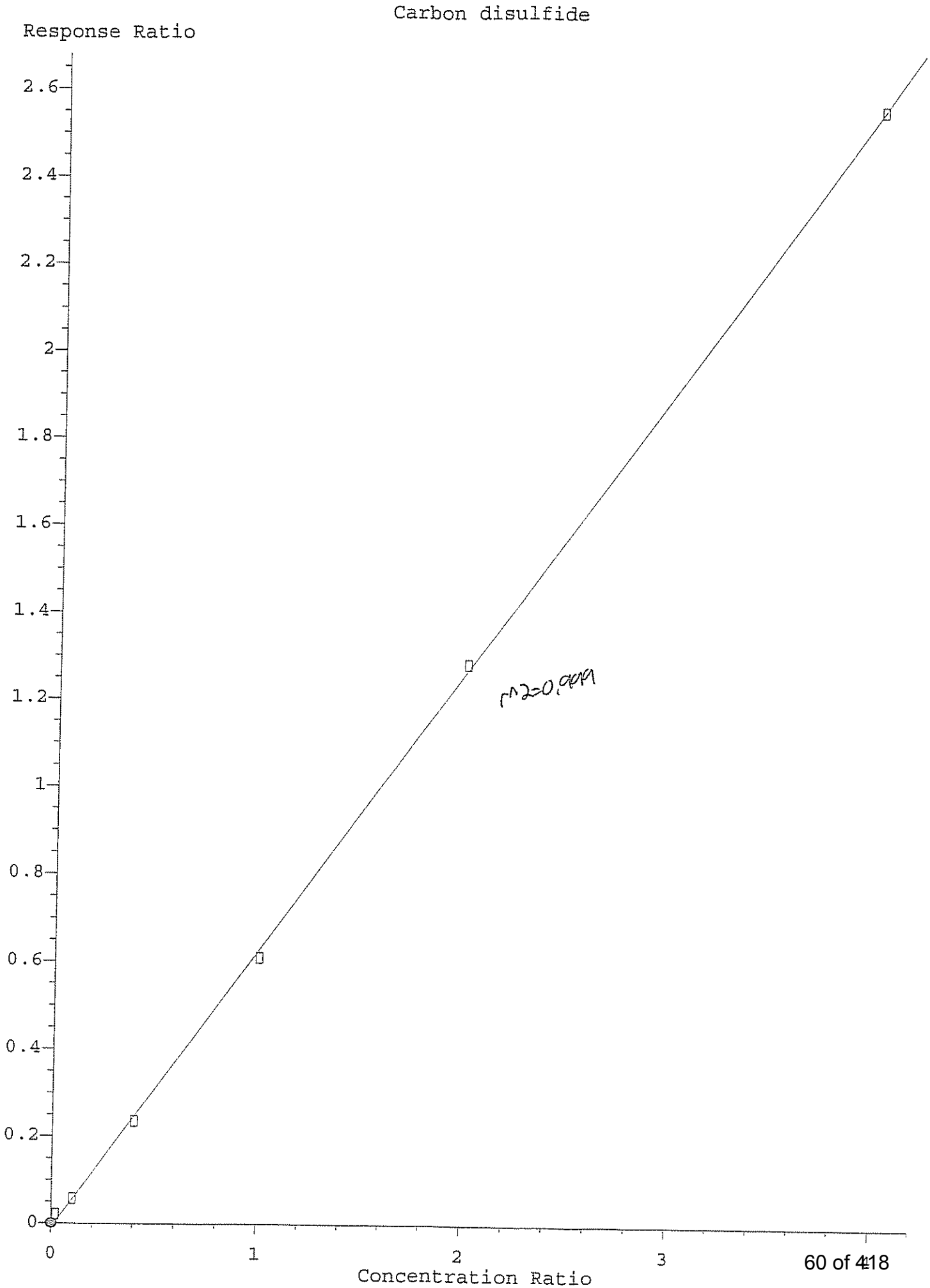

Trichlorofluoromethane
Response Ratio
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
0.5
1
1.5
Concentration Ratio
r^2=0.999

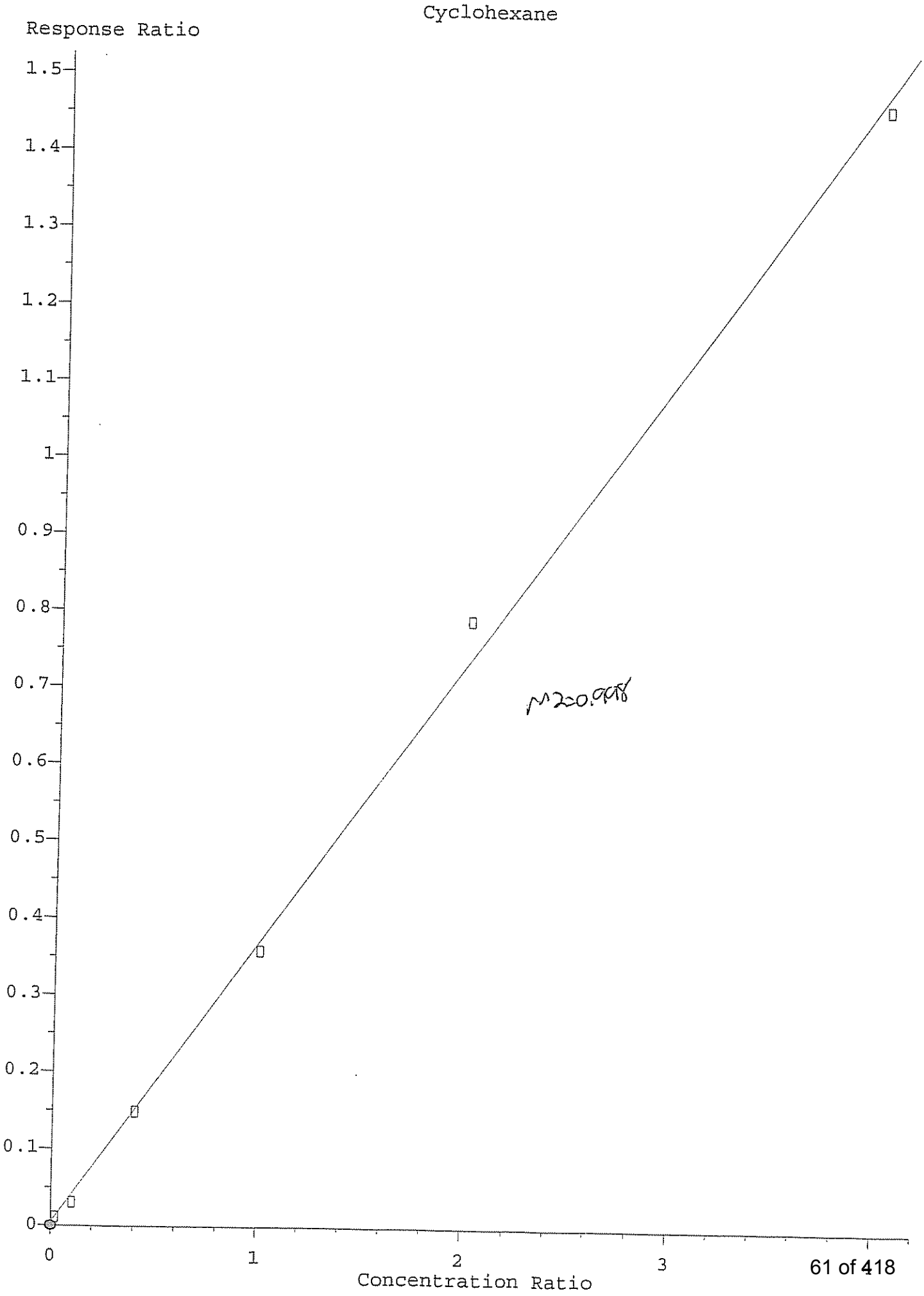

Acetonitrile
Response Ratio
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0
10
20
30
Concentration Ratio
r^2=0.9991

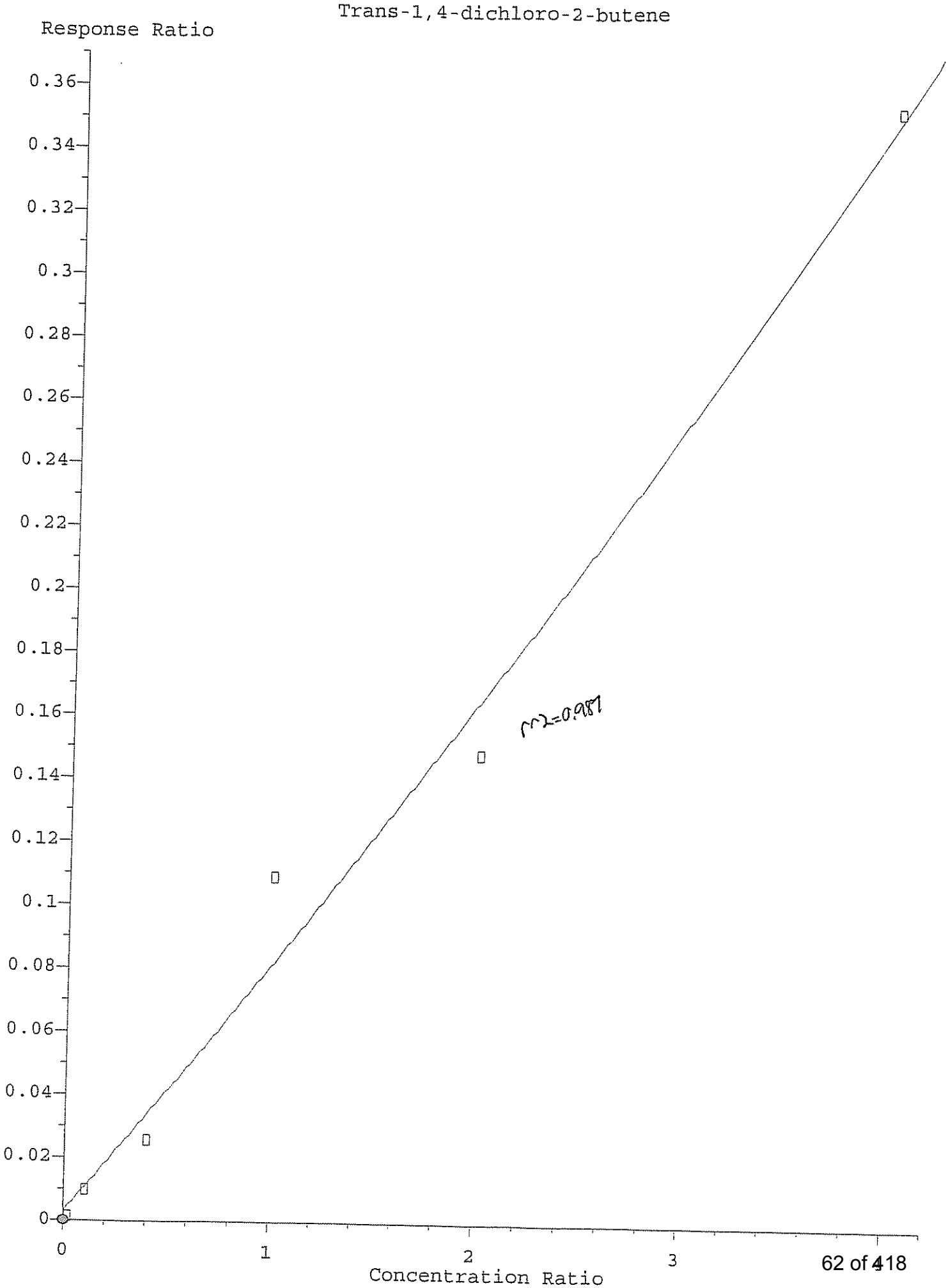

Methylene chloride
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
r^2=0.999
0
1
2
3
Concentration Ratio


Acetone
Response Ratio
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
r^2=0.999
0
2
4
6
Concentration Ratio


Methyl Acetate
Response Ratio
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
r^2=0.973
0
1
2
3
Concentration Ratio


Carbon disulfide
Response Ratio
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1
2
3
Concentration Ratio
r^2=0.999


Cyclohexane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
Concentration Ratio
r^2=0.999


Trans-1,4-dichloro-2-butene
Response Ratio
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
1
2
3
Concentration Ratio
r^2=0.987

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	653851	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.682	114	545045	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	494605	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	168508	48.22	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.44%			
54) Toluene-d8	6.142	98	612948	48.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.50%			
76) 4-Bromofluorobenzene	8.881	95	231662	49.63	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.26%			
92) 1,2-Dichlorobenzene-d4	10.085	152	217113	47.01	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 94.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.188	85	879	0.72	ug/L	98
3) Chloromethane	1.317	50	2454m	1.09	ug/L	
4) Vinyl chloride	1.402	62	2881	1.08	ug/L #	44
5) Bromomethane	1.622	94	2845m	2.42	ug/L	
6) Chloroethane	1.285	64	313549	165.07	ug/L #	53
7) Trichlorofluoromethane	1.846	101	2014	0.55	ug/L	91
8) Ethyl Ether	2.050	59	2126	0.90	ug/L	96
9) Freon 113	2.184	101	2000	0.96	ug/L	92
10) Acrolein	2.189	56	2058	4.40	ug/L #	74
11) Tert-Butyl alcohol	2.670	59	4154	14.85	ug/L #	47
12) 1,1-Dichloroethene	2.210	96	2320	0.97	ug/L #	69
13) Iodomethane	2.339	142	5982	2.82	ug/L	99
14) Acetonitrile	2.483	40	10288	6.90	ug/L #	1
15) Methylene chloride	2.595	84	4904	1.65	ug/L	77
16) Trans-1,2-dichloroethene	2.756	96	2729	1.00	ug/L #	61
17) Isopropyl ether	3.093	45	10388	0.97	ug/L	96
18) 1,1-Dichloroethane	3.114	63	4250	0.84	ug/L	94
19) Acetone	2.296	43	3961	3.63	ug/L	95
20) Methyl Acetate	4.259	43	2948	1.24	ug/L #	100
21) MTBE	2.740	73	6186	0.84	ug/L	100
22) Carbon disulfide	2.360	76	13396	1.68	ug/L	100
24) Acrylonitrile	2.831	53	3734	4.51	ug/L	91
25) Chloroprene	3.146	53	4598	0.98	ug/L	92
26) n-Heptane	4.436	71	2999m	1.32	ug/L	
27) 2,2-Dichloropropane	3.548	77	3711	0.89	ug/L #	40
28) Cis-1,2-dichloroethene	3.580	96	3658	1.13	ug/L #	70

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	9570m	3.01 ug/L	
30) Propionitrile	3.735	54	3668	8.80 ug/L #	89
31) Bromochloromethane	3.783	128	1151	0.78 ug/L	98
32) Tetrahydrofuran	3.617	72	609	0.89 ug/L	85
33) Chloroform	3.837	83	6730	1.26 ug/L	95
34) Cyclohexane	3.938	56	7325	1.56 ug/L #	89
35) 1,1,1-Trichloroethane	3.960	97	3774	0.89 ug/L	87
36) Carbon tetrachloride	4.072	117	2845	0.77 ug/L	85
37) Methacrylonitrile	3.826	41	18476	8.37 ug/L #	37
38) Methylcyclohexane	4.997	83	4705	1.08 ug/L #	81
39) Isobutyl Alcohol	4.259	43	2948	14.35 ug/L	100
42) 2-Butanone	3.612	43	3280	1.82 ug/L	98
43) 1,1-Dichloropropene	4.099	75	2939	0.76 ug/L #	84
44) Vinyl Acetate	3.141	43	4019m	0.96 ug/L	
45) Benzene	4.286	78	10074	0.85 ug/L	100
46) 1,2-Dichloroethane	4.377	62	3017	0.81 ug/L #	80
47) Trichloroethene	4.885	95	2932	0.99 ug/L	86
48) 1,2-Dichloropropane	5.169	63	2461	0.81 ug/L	97
49) Methyl methacrylate	5.270	69	2343	1.12 ug/L	80
50) Dibromomethane	5.281	93	1866	1.03 ug/L	92
51) Bromodichloromethane	5.431	83	3684	0.95 ug/L #	99
52) 2-Chloroethylvinyl ether	5.779	63	1158	0.86 ug/L #	80
53) Cis-1,3-dichloropropene	5.918	75	3707	0.76 ug/L	93
55) Toluene	6.217	92	6417	0.82 ug/L	97
56) Trans-1,3-dichloropropene	6.570	75	2980	0.66 ug/L #	89
57) Ethyl methacrylate	6.618	69	3778	1.00 ug/L	96
58) 1,1,2-Trichloroethane	6.774	83	1999	0.86 ug/L	93
60) 4-Methyl-2-pentanone	6.099	43	5390	1.84 ug/L #	85
61) 2-Hexanone	7.068	43	3471	1.61 ug/L	98
62) Tetrachloroethene	6.790	166	2253	0.76 ug/L	97
63) 1,3-Dichloropropane	6.977	76	3571	0.85 ug/L	97
64) Dibromochloromethane	7.185	129	2423	0.78 ug/L	88
65) 1,2-Dibromoethane	7.319	107	2434	0.95 ug/L	89
66) 1-Chlorohexane	7.790	91	4651	1.11 ug/L #	30
67) Chlorobenzene	7.811	112	7395	0.86 ug/L	93
68) 1,1,1,2-Tetrachloroethane	7.908	131	2449	0.79 ug/L #	18
69) Ethylbenzene	7.897	91	13042	0.89 ug/L	96
70) m,p-Xylene	8.020	106	10091	1.74 ug/L	92
71) o-Xylene	8.395	106	5451	0.95 ug/L	83
72) Xylene (Total)	8.020	106	15541m	2.63 ug/L	
73) Styrene	8.421	104	8177	0.84 ug/L	96
74) Bromoform	8.598	173	1471	0.77 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

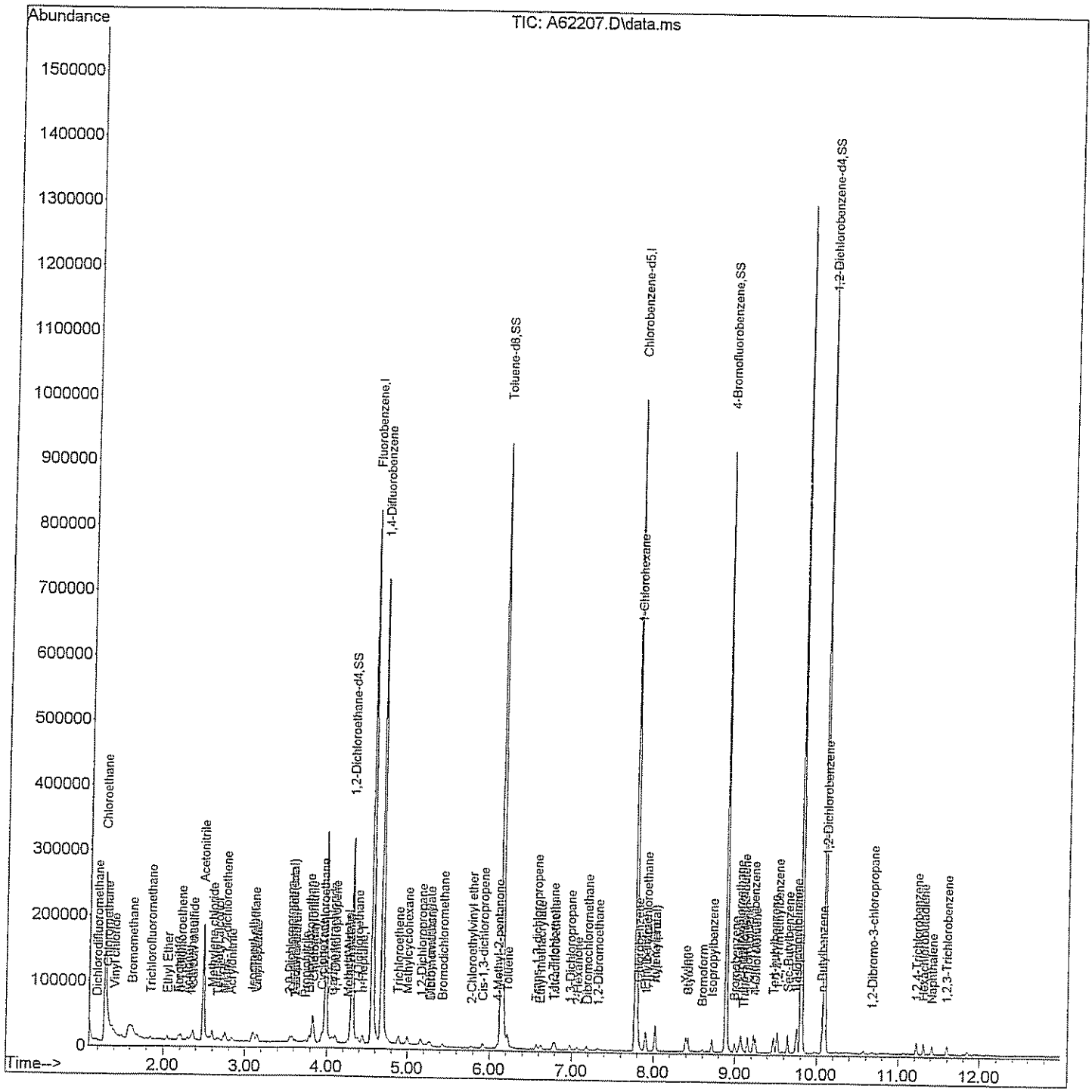
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.716	105	10411	0.83 ug/L	99
77) Bromobenzene	8.994	156	2968	0.87 ug/L	95
78) 1,1,2,2-Tetrachloroethane	9.047	83	3138m	0.95 ug/L	
79) 1,2,3-Trichloropropane	9.085	110	898	0.91 ug/L #	82
80) n-Propylbenzene	9.069	91	15058	0.88 ug/L	100
81) Trans-1,4-dichloro-2-b...	9.106	53	656	0.72 ug/L #	23
82) 2-Chlorotoluene	9.149	126	3342	0.93 ug/L	87
83) 4-Chlorotoluene	9.245	126	3499	0.93 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	10102	0.82 ug/L	92
85) Tert-butylbenzene	9.470	119	8456	0.79 ug/L	94
87) 1,2,4-Trimethylbenzene	9.518	105	10397	0.81 ug/L	92
88) Sec-Butylbenzene	9.641	105	13481	0.82 ug/L	100
89) 1,3-Dichlorobenzene	9.743	146	5746	0.80 ug/L	94
90) 4-Isopropyltoluene	9.759	119	11496	0.82 ug/L	95
91) 1,4-Dichlorobenzene	9.743	146	5746	0.79 ug/L	95
93) 1,2-Dichlorobenzene	10.101	146	6074m	0.89 ug/L	
94) n-Butylbenzene	10.058	91	12855	0.96 ug/L	100
95) 1,2-Dibromo-3-chloropr...	10.679	75	501	0.88 ug/L	95
96) 1,2,4-Trichlorobenzene	11.225	180	4004	0.99 ug/L	98
97) Hexachlorobutadiene	11.305	225	1901	1.01 ug/L	98
98) Naphthalene	11.412	128	8153	0.82 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	3193	0.93 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

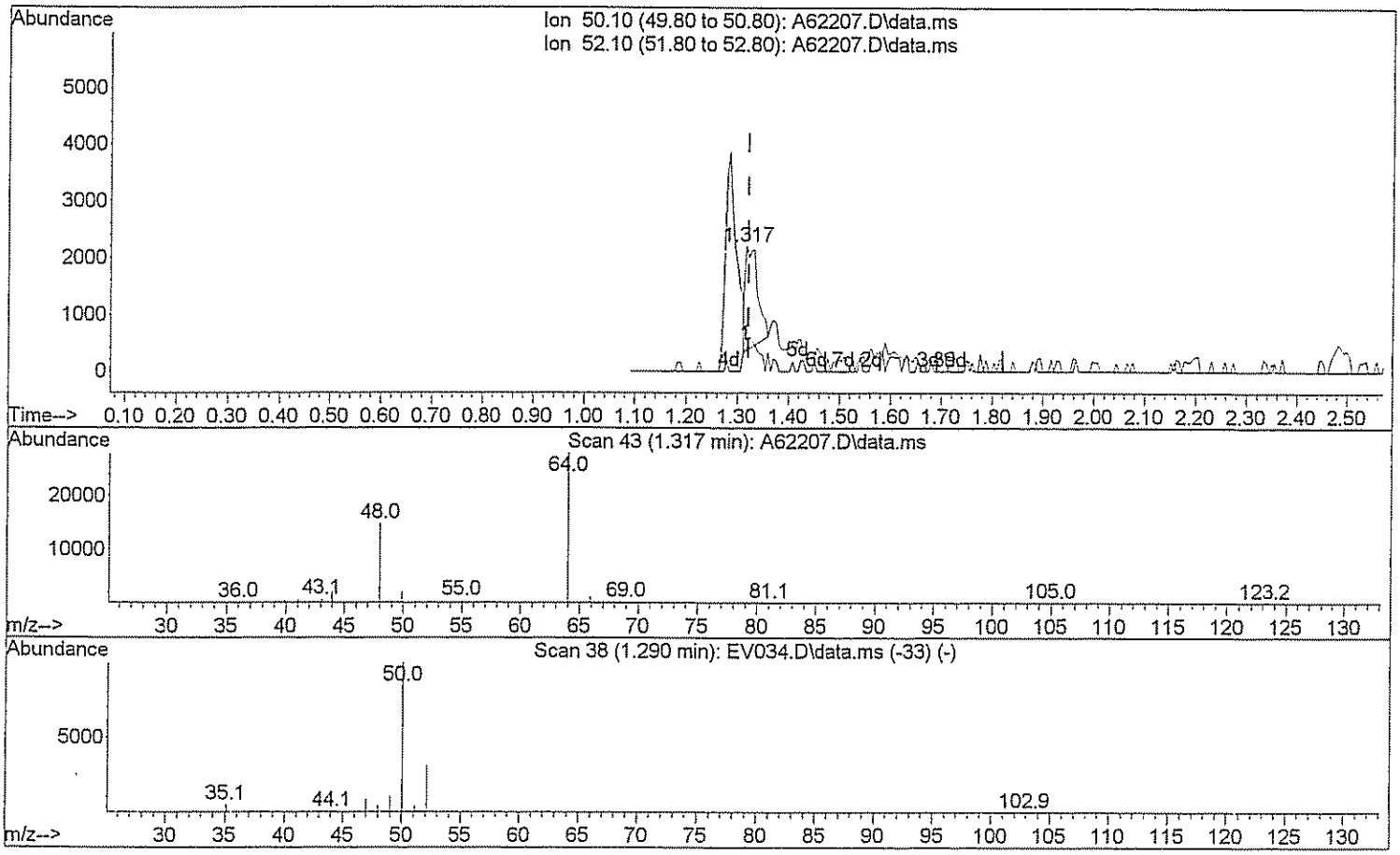
Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(3) Chloromethane

1.317min (-0.005) 1.32 ug/L

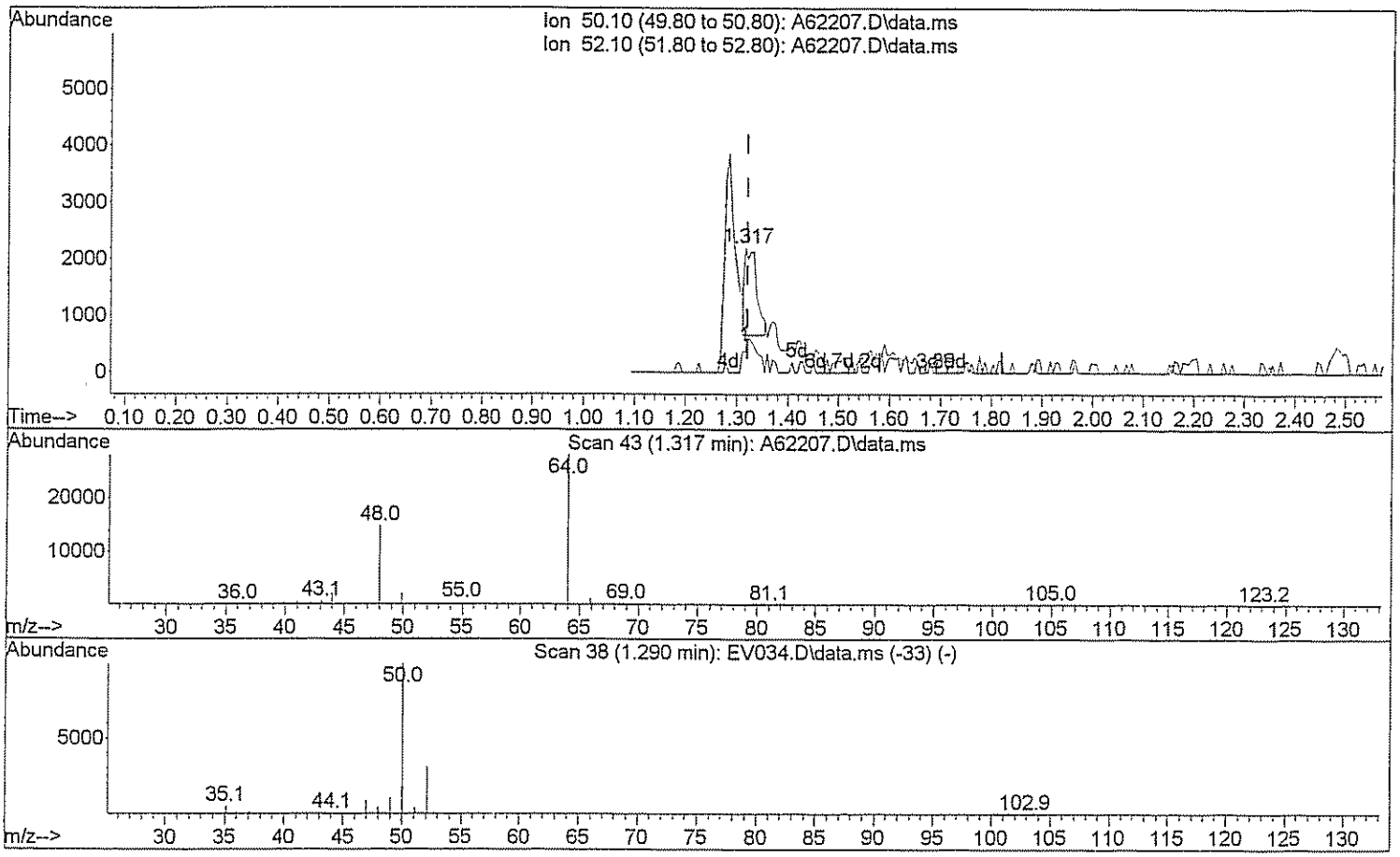
response 2970

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	35.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(3) Chloromethane

1.317min (-0.005) 1.09 ug/L m

3/17/09

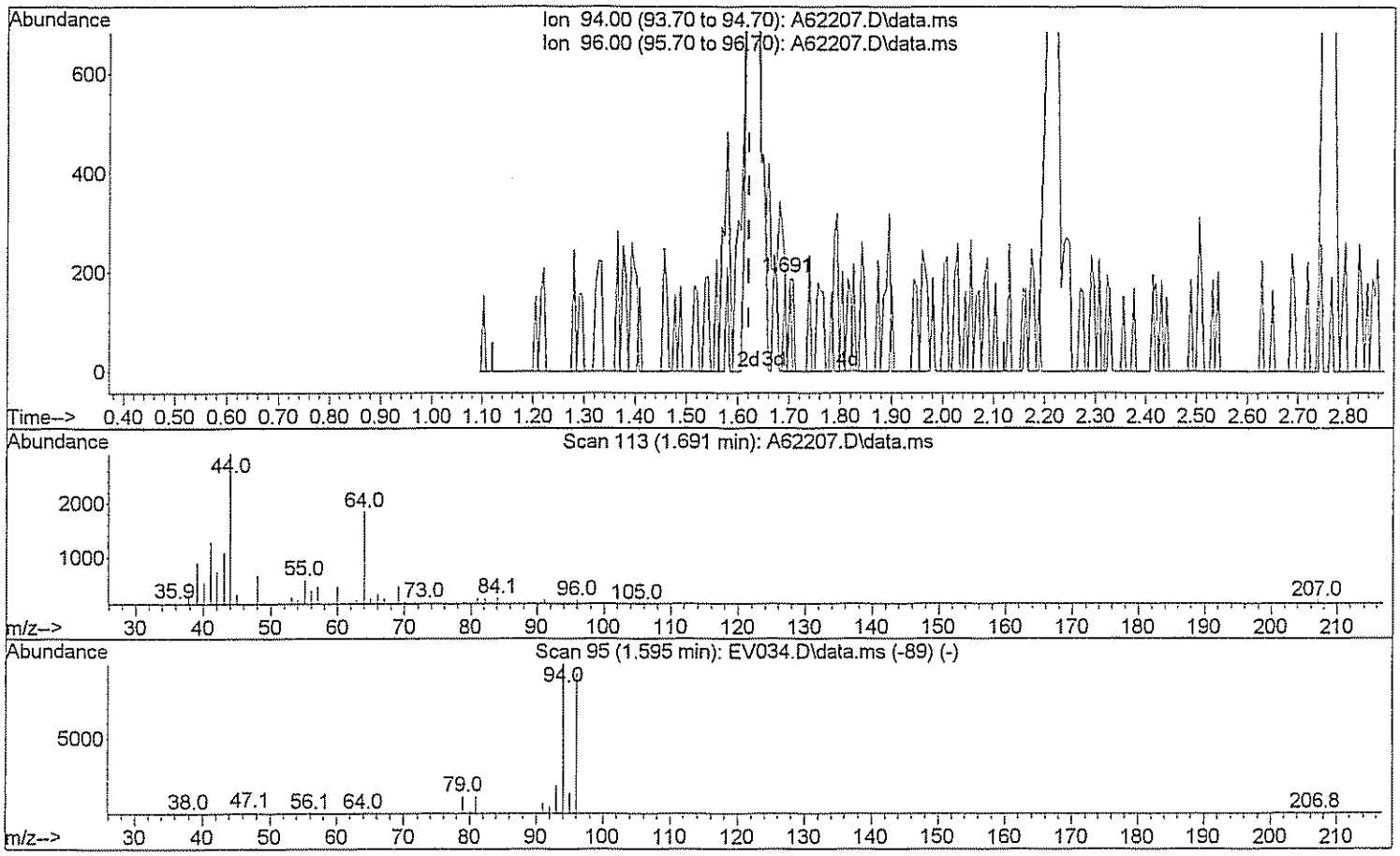
response 2454

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	43.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(5) Bromomethane

1.691min (+0.070) 0.10 ug/L

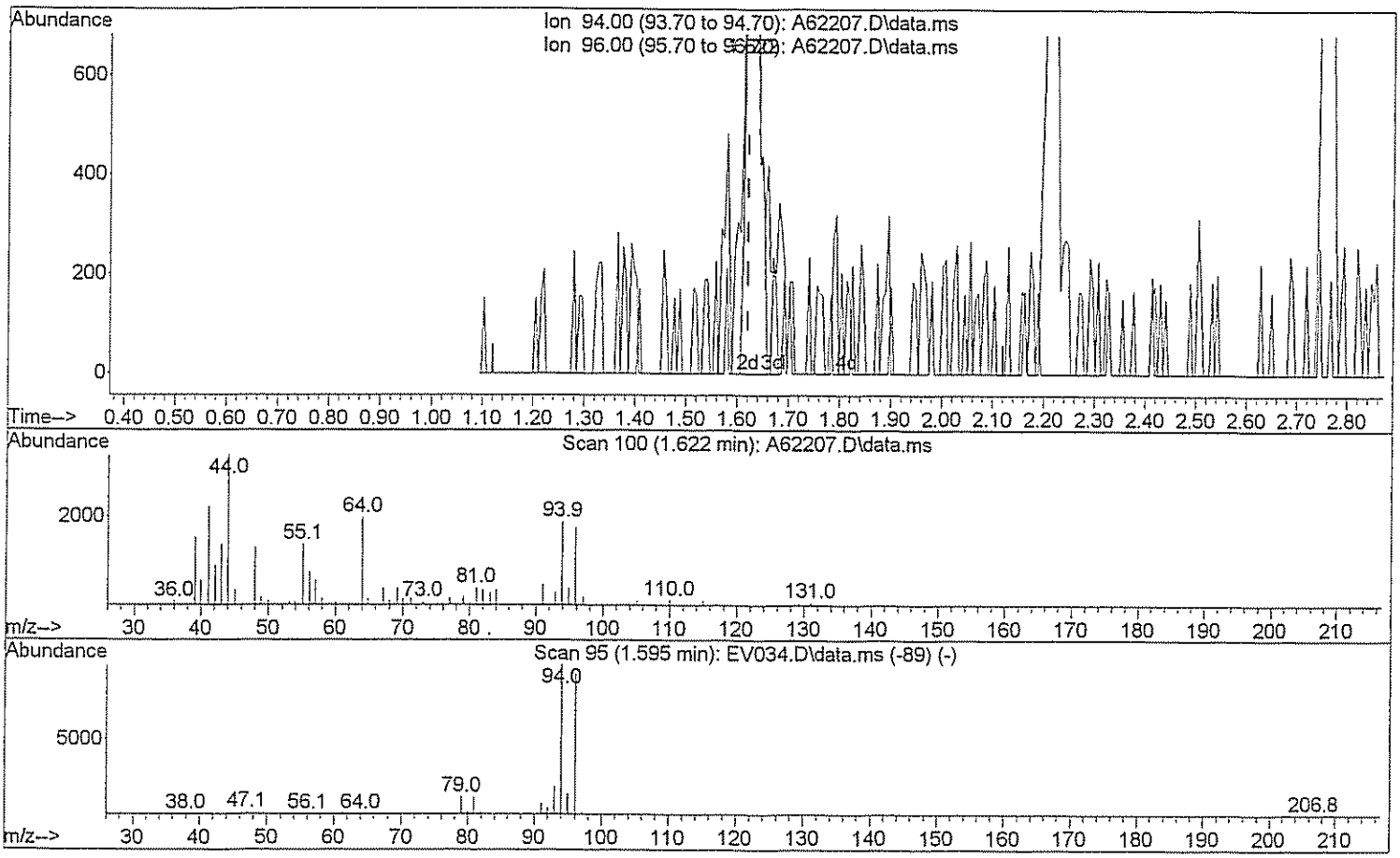
response 120

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	99.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(5) Bromomethane

1.622min (+0.000) 2.42 ug/L m DW 3/17/09

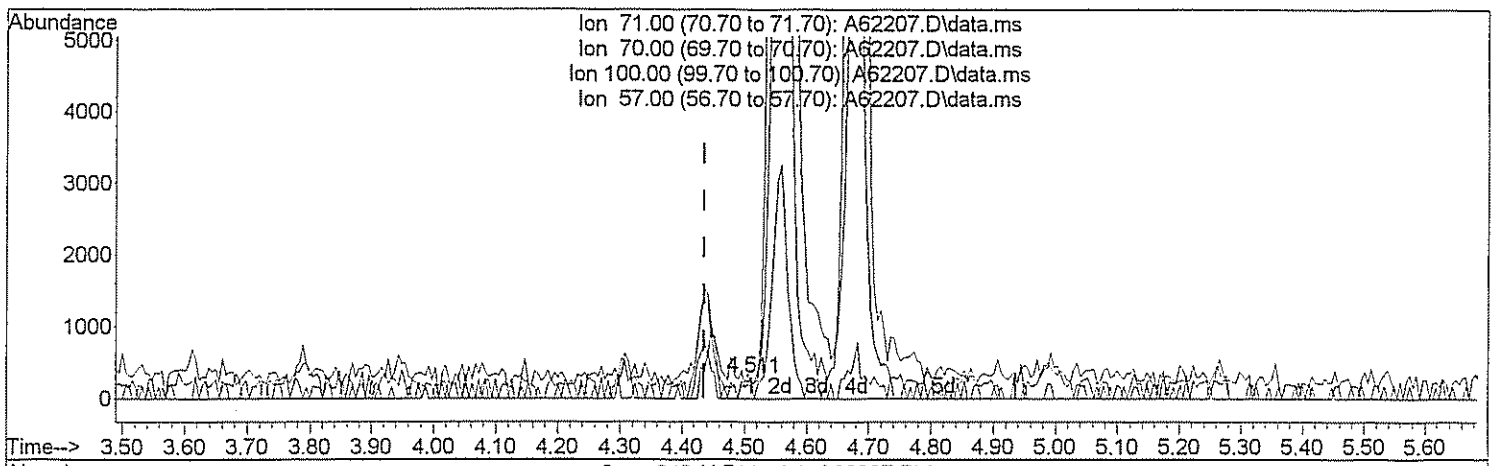
response 2845

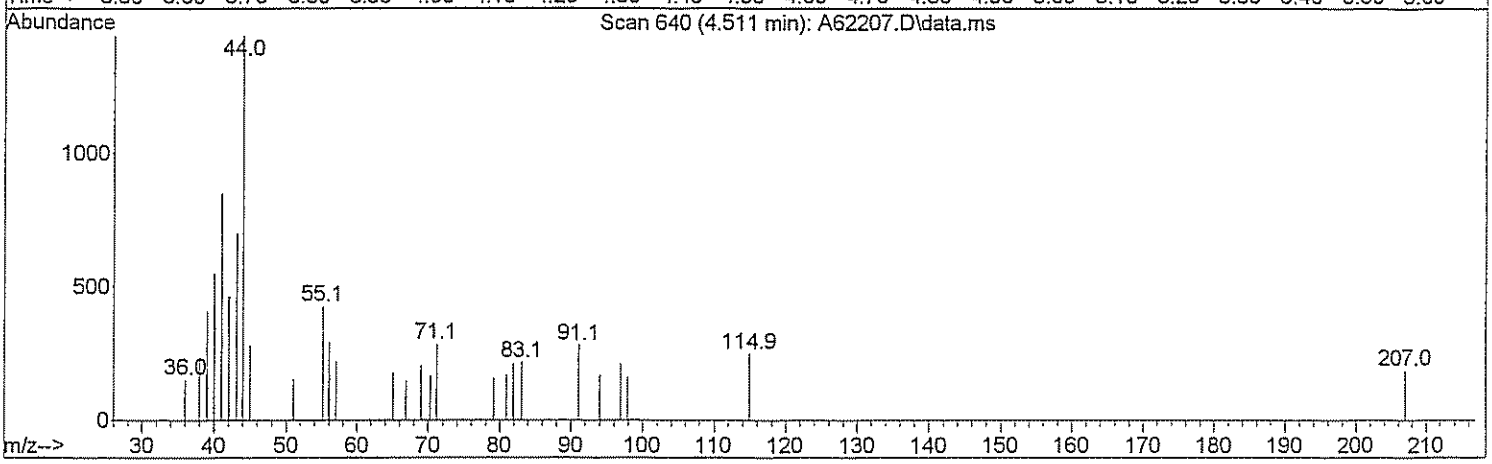
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	4.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration





TIC: A62207.D\data.ms

(26) n-Heptane (T)

4.511min (+0.075) 0.13 ug/L

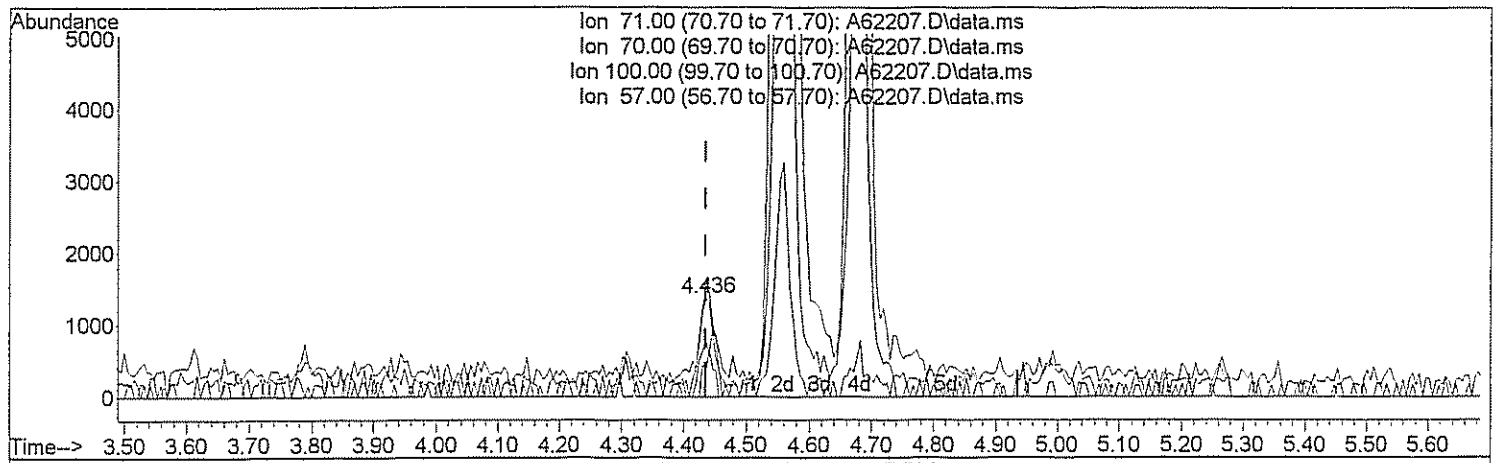
response 287

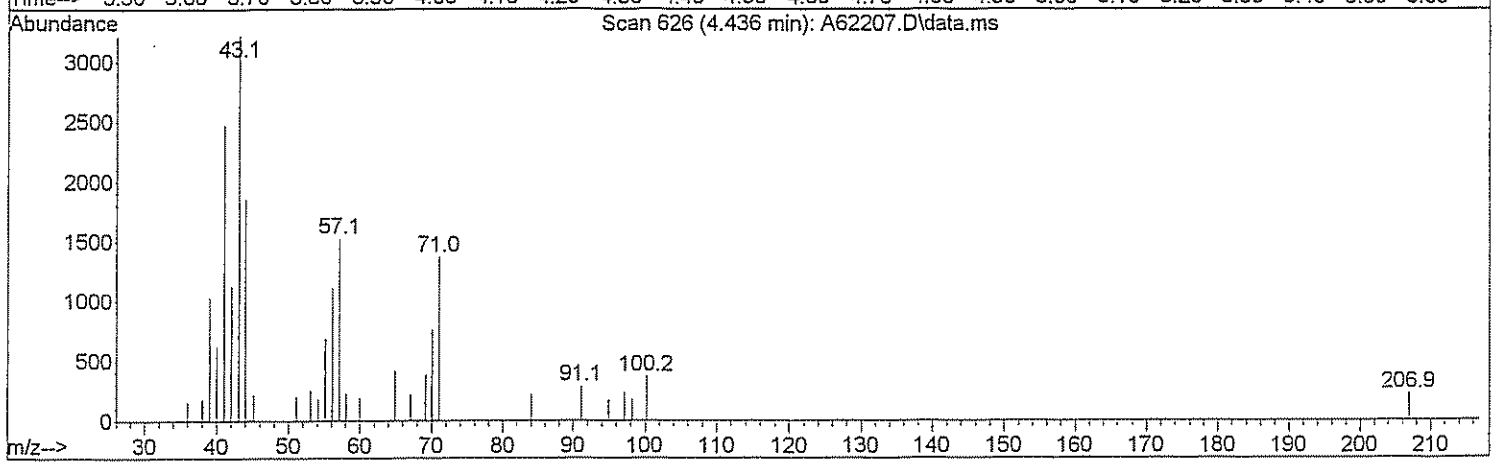
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	62.00	0.00#
57.00	40.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration





TIC: A62207.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 1.32 ug/L m

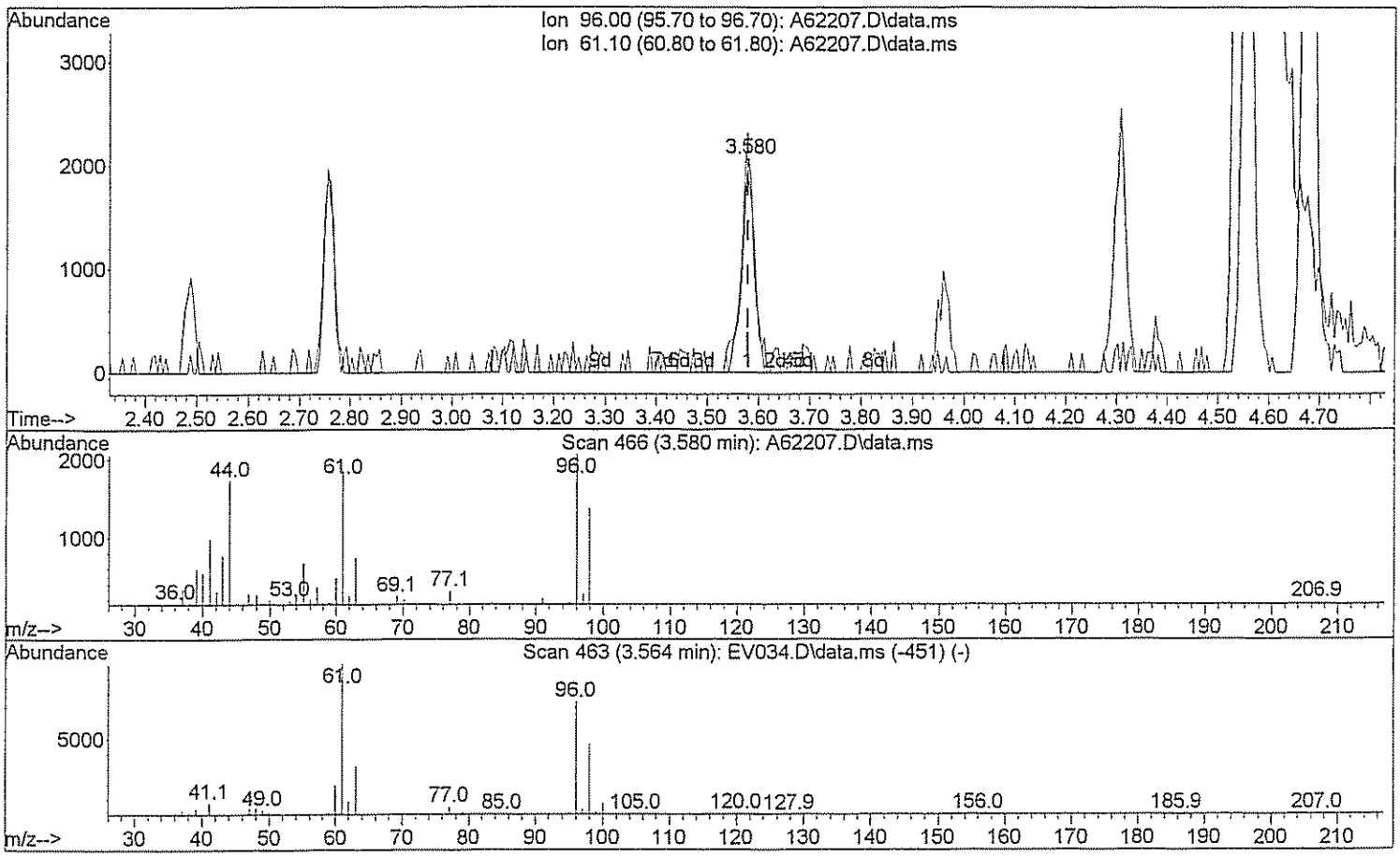
response 2999

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	62.00	0.00#
57.00	40.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.000) 1.15 ug/L

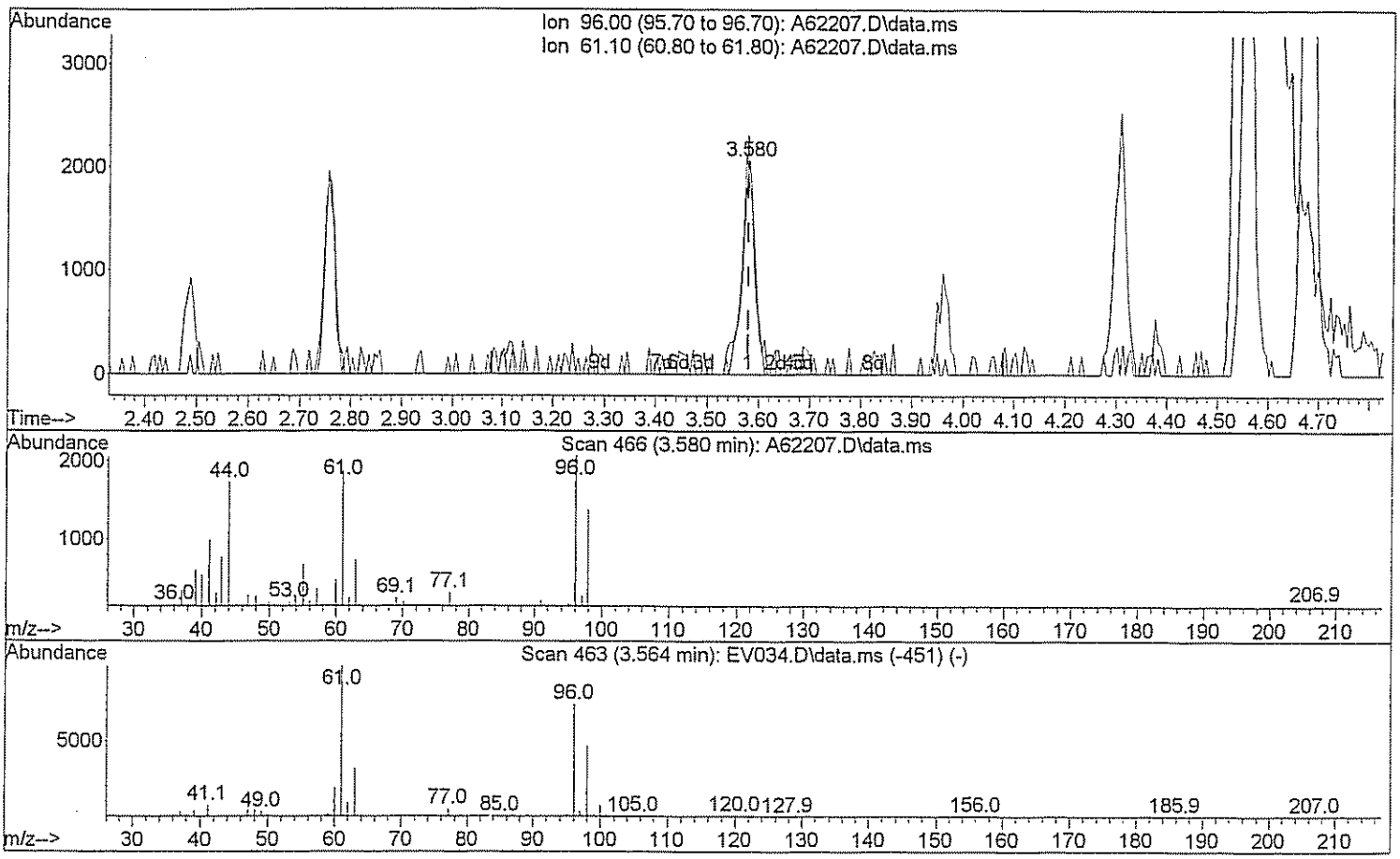
response 3658

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	106.40#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.000) 3.01 ug/L m

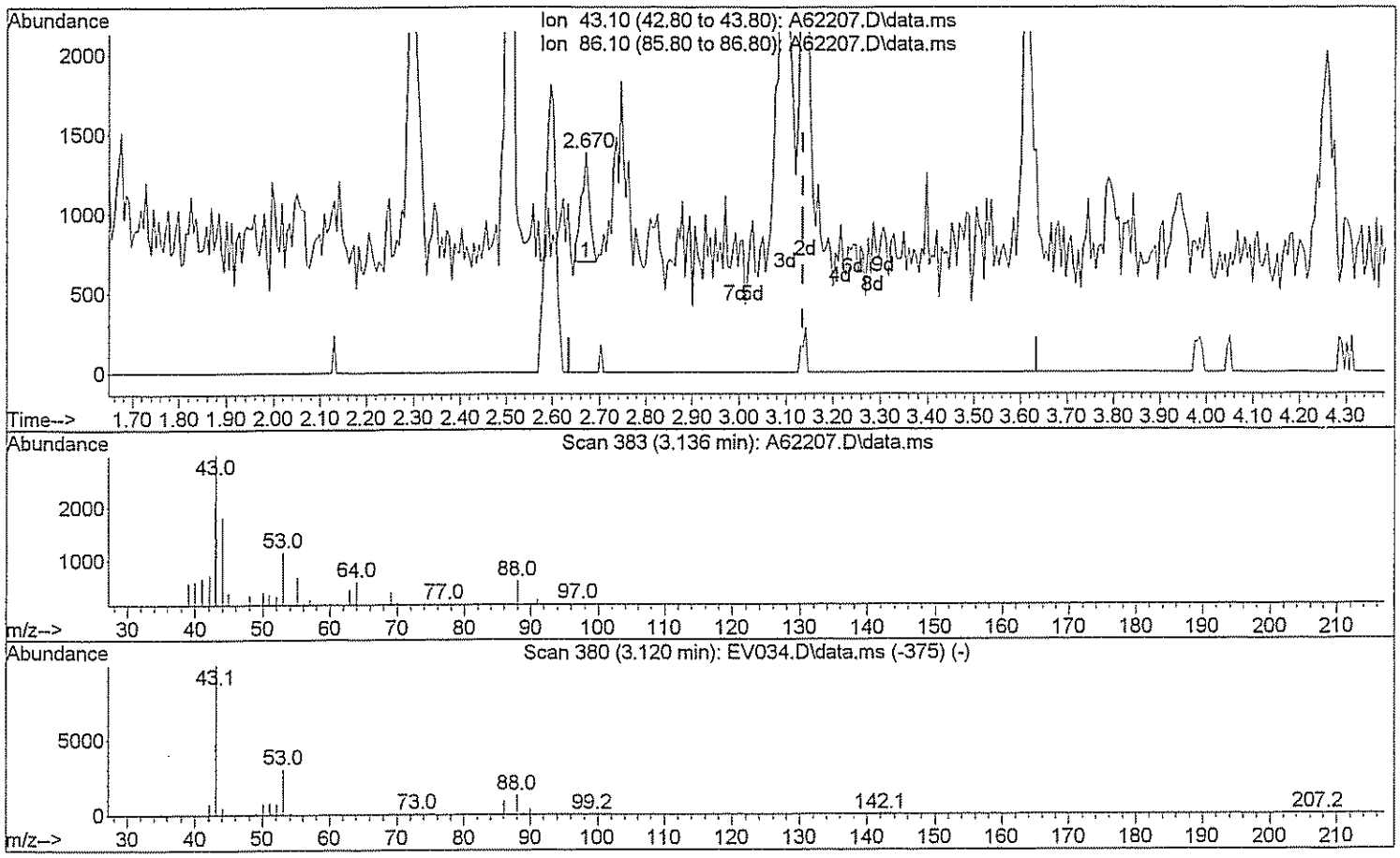
response 9570

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	40.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(44) Vinyl Acetate

2.670min (-0.465) 0.20 ug/L

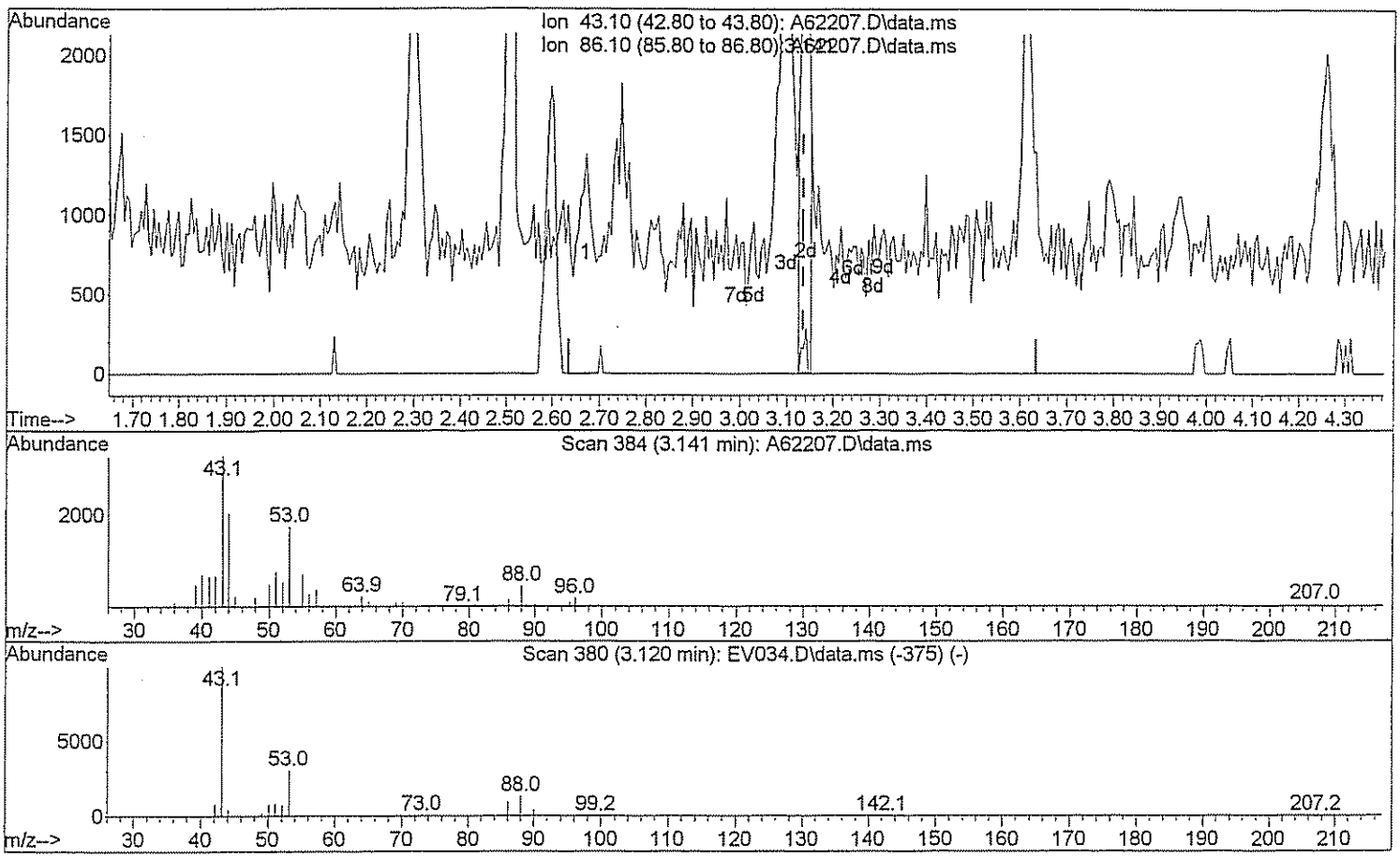
response 826

Ion	Exp%	Act%
43.10	100	100
86.10	8.20	6.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(44) Vinyl Acetate

3.141min (+0.005) 0.96 ug/L m

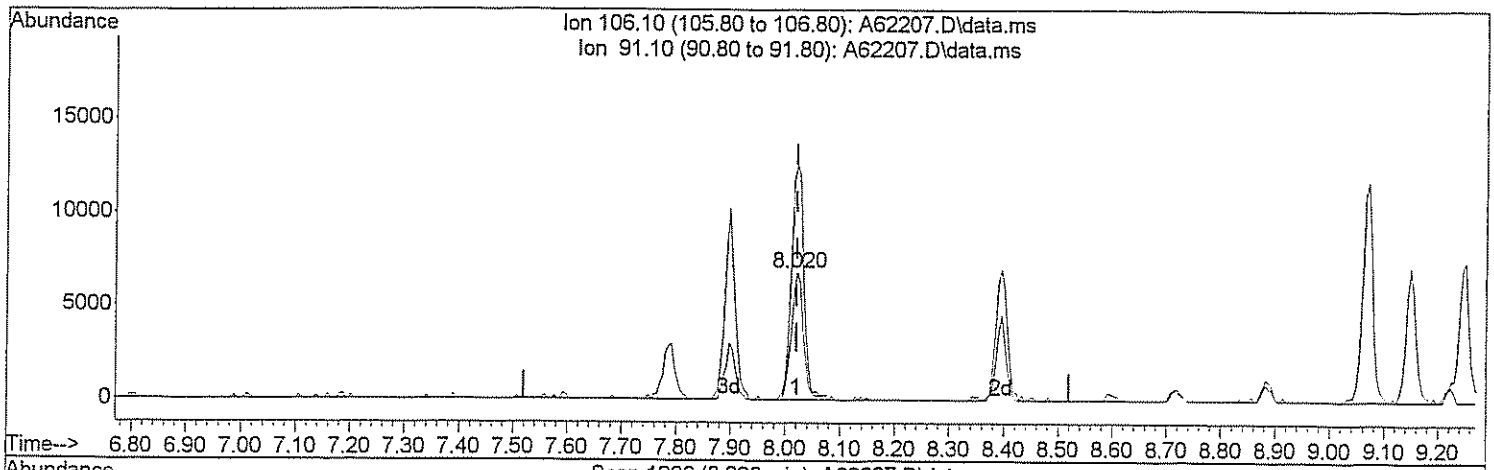
response 4019

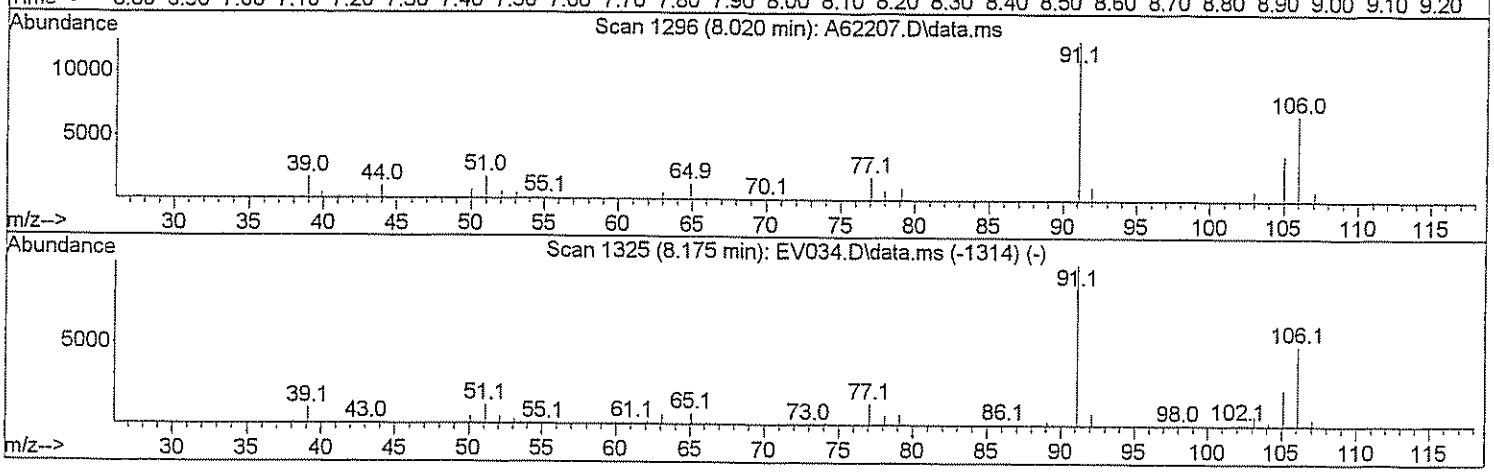
Ion	Exp%	Act%
43.10	100	100
86.10	8.20	1.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration





TIC: A62207.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 1.71 ug/L

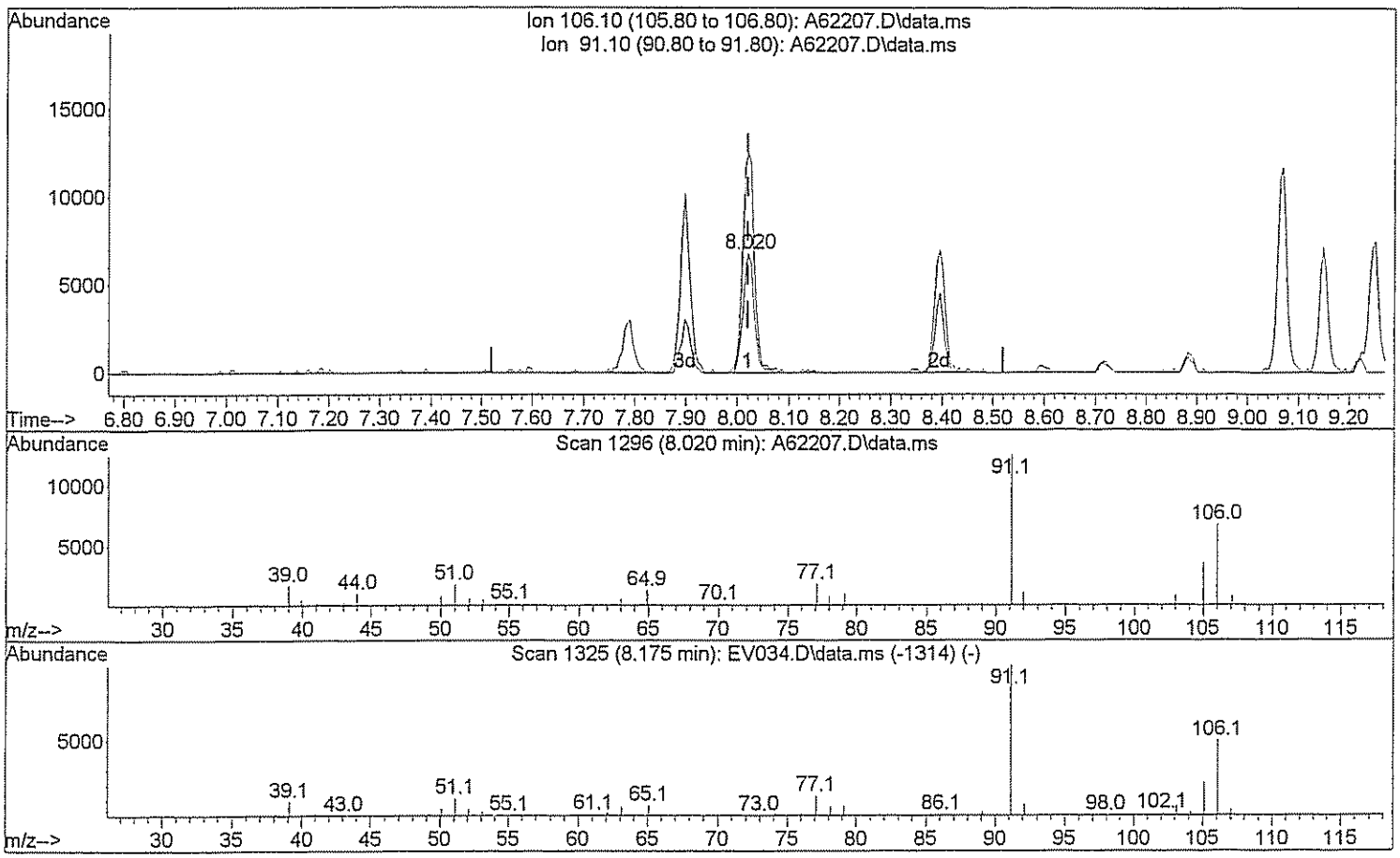
response 10091

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 2.63 ug/L m DW 3/17/09

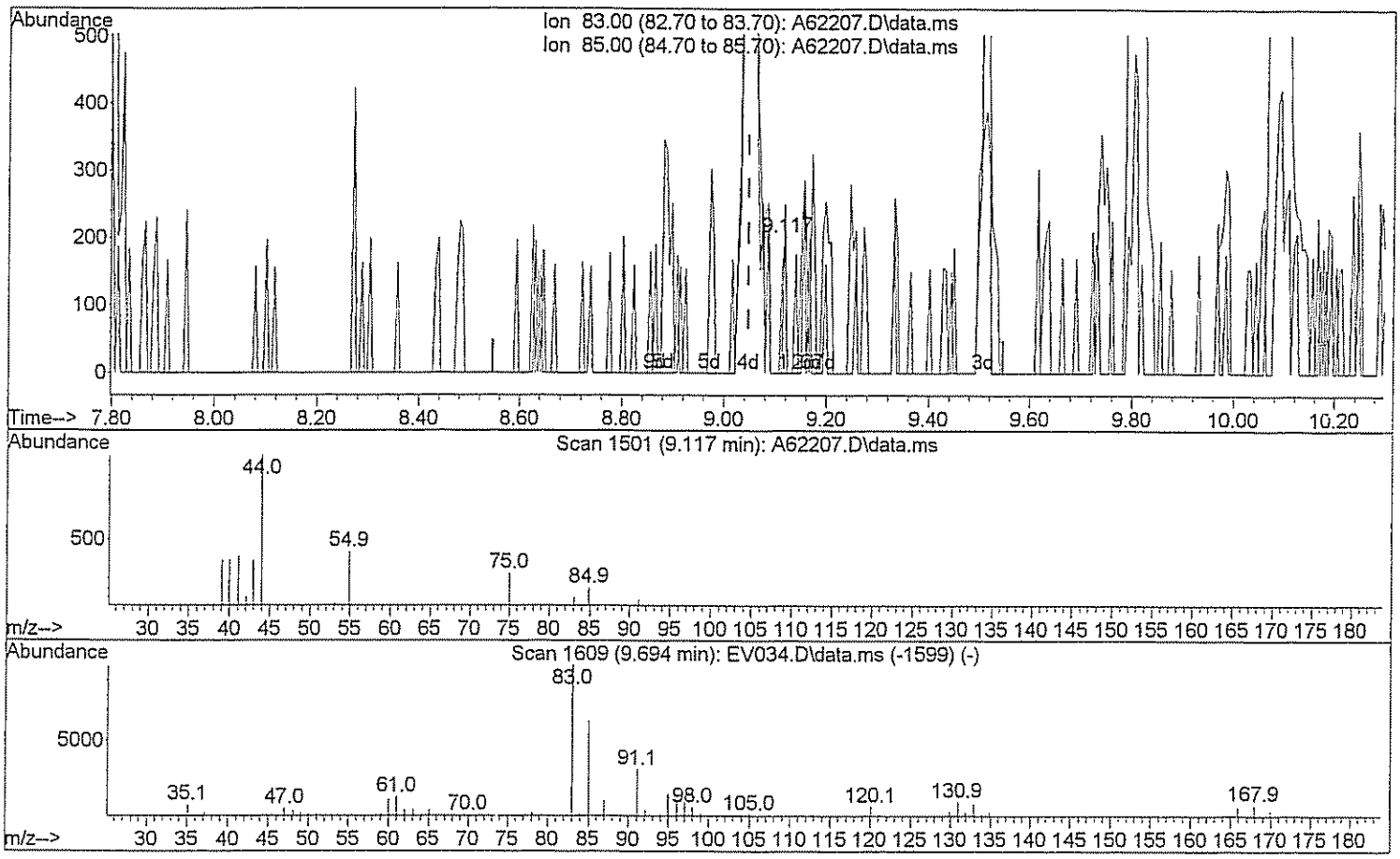
response 15541

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.94#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(78) 1,1,2,2-Tetrachloroethane

9.117min (+0.070) 0.03 ug/L

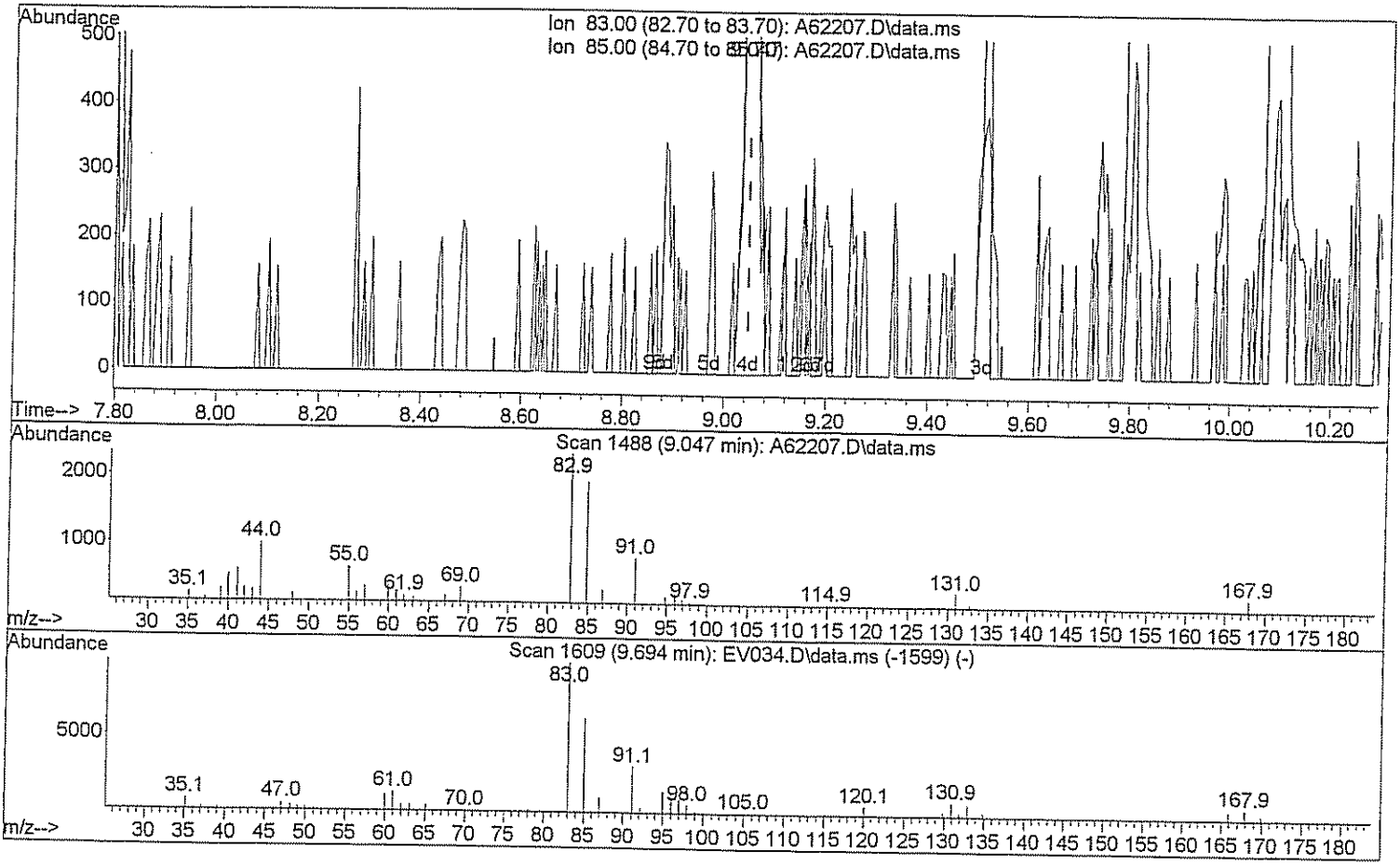
response 114

Ion	Exp%	Act%
83.00	100	100
85.00	62.40	71.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(78) 1,1,2,2-Tetrachloroethane

9.047min (+0.000) 0.95 ug/L m Sm 3/17/09

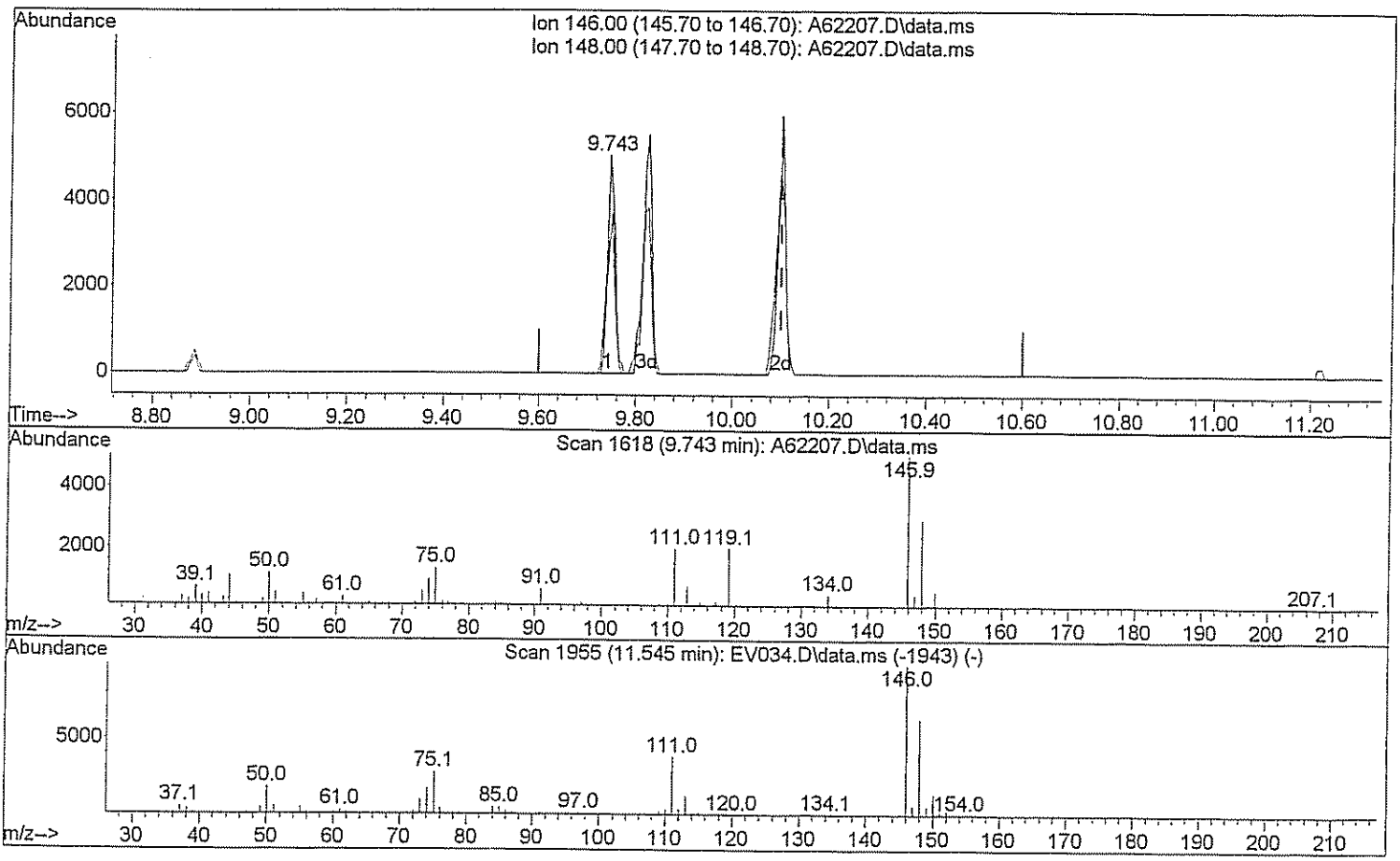
response 3138

Ion	Exp%	Act%
83.00	100	100
85.00	62.40	2.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(93) 1,2-Dichlorobenzene

9.743min (-0.358) 0.84 ug/L

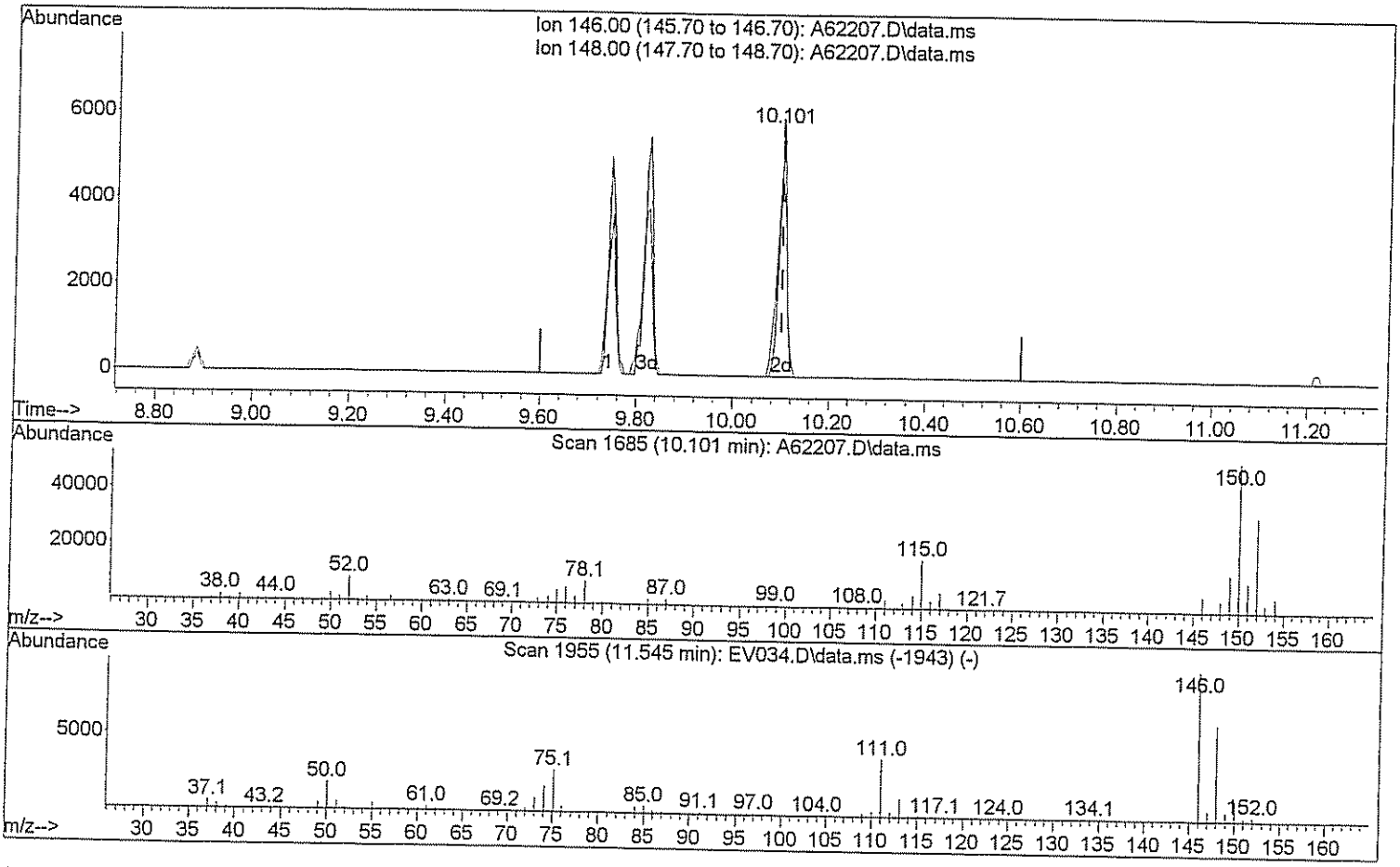
response 5746

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	68.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(93) 1,2-Dichlorobenzene

10.101min (+0.000) 0.89 ug/L m DM 3/17/09

response 6074

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	64.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	620821	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	510609	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	461433	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	162435	48.71	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.42%				
54) Toluene-d8	6.142	98	578385	48.26	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.52%				
76) 4-Bromofluorobenzene	8.881	95	215086	49.24	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.48%				
92) 1,2-Dichlorobenzene-d4	10.085	152	202987	46.44	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 92.88%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	5296	4.41	ug/L		95
3) Chloromethane	1.322	50	11263	5.36	ug/L	#	63
4) Vinyl chloride	1.392	62	11774	4.56	ug/L	#	46
5) Bromomethane	1.622	94	4253m	3.53	ug/L		
6) Chloroethane	1.686	64	8923m	4.93	ug/L		
7) Trichlorofluoromethane	1.841	101	15209	4.18	ug/L		99
8) Ethyl Ether	2.044	59	9718	4.19	ug/L		90
9) Freon 113	2.178	101	8353	4.01	ug/L		93
10) Acrolein	2.189	56	11354	25.72	ug/L	#	74
11) Tert-Butyl alcohol	2.665	59	25601	95.22	ug/L	#	47
12) 1,1-Dichloroethene	2.210	96	10037	4.31	ug/L		76
13) Iodomethane	2.333	142	6874	3.17	ug/L		97
14) Acetonitrile	2.483	40	46779	30.48	ug/L	#	1
15) Methylene chloride	2.590	84	13777	4.85	ug/L		96
16) Trans-1,2-dichloroethene	2.750	96	11537	4.30	ug/L		84
17) Isopropyl ether	3.088	45	44510	4.22	ug/L		100
18) 1,1-Dichloroethane	3.109	63	20739	4.14	ug/L		99
19) Acetone	2.296	43	10639	10.34	ug/L		96
20) Methyl Acetate	4.254	43	13443	6.38	ug/L	#	100
21) MTBE	2.734	73	31650	4.39	ug/L		100
22) Carbon disulfide	2.355	76	35249	4.58	ug/L		100
24) Acrylonitrile	2.831	53	18286	22.89	ug/L		93
25) Chloroprene	3.146	53	19767	4.32	ug/L		89
26) n-Heptane	4.436	71	9657m	4.38	ug/L		
27) 2,2-Dichloropropane	3.548	77	16666	3.98	ug/L	#	53
28) Cis-1,2-dichloroethene	3.580	96	13315	4.17	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	27425m	9.07 ug/L	
30) Propionitrile	3.729	54	18264	45.27 ug/L	96
31) Bromochloromethane	3.783	128	5626	3.80 ug/L	95
32) Tetrahydrofuran	3.794	72	3012	4.56 ug/L #	1
33) Chloroform	3.836	83	21517	4.09 ug/L	97
34) Cyclohexane	3.933	56	18757	4.06 ug/L #	81
35) 1,1,1-Trichloroethane	3.960	97	17034	4.08 ug/L	94
36) Carbon tetrachloride	4.061	117	14873	4.07 ug/L	98
37) Methacrylonitrile	3.820	41	84193	38.28 ug/L #	12
38) Methylcyclohexane	4.987	83	18142	4.24 ug/L	95
39) Isobutyl Alcohol	4.436	43	17978	89.80 ug/L	91
42) 2-Butanone	3.612	43	15533	9.00 ug/L	98
43) 1,1-Dichloropropene	4.099	75	15570	4.18 ug/L	100
44) Vinyl Acetate	3.136	43	18207	4.53 ug/L	97
45) Benzene	4.281	78	47600	4.15 ug/L	100
46) 1,2-Dichloroethane	4.371	62	15061m	4.16 ug/L	
47) Trichloroethene	4.880	95	12390	4.34 ug/L	96
48) 1,2-Dichloropropane	5.158	63	11740	3.93 ug/L	98
49) Methyl methacrylate	5.265	69	10447	5.39 ug/L	83
50) Dibromomethane	5.276	93	7721	4.46 ug/L	99
51) Bromodichloromethane	5.425	83	16101	4.29 ug/L	100
52) 2-Chloroethylvinyl ether	5.773	63	29297	24.02 ug/L	92
53) Cis-1,3-dichloropropene	5.912	75	18450	3.79 ug/L	96
55) Toluene	6.217	92	30564	4.02 ug/L	94
56) Trans-1,3-dichloropropene	6.570	75	18138	4.09 ug/L	95
57) Ethyl methacrylate	6.624	69	15501	4.24 ug/L	93
58) 1,1,2-Trichloroethane	6.768	83	9497	4.16 ug/L	97
60) 4-Methyl-2-pentanone	6.094	43	26186	9.51 ug/L #	91
61) 2-Hexanone	7.062	43	20194	10.08 ug/L	95
62) Tetrachloroethene	6.790	166	11834	4.12 ug/L	92
63) 1,3-Dichloropropane	6.966	76	18431	4.60 ug/L	96
64) Dibromochloromethane	7.185	129	13422	4.58 ug/L	91
65) 1,2-Dibromoethane	7.319	107	11148	4.58 ug/L	99
66) 1-Chlorohexane	7.785	91	18454	4.64 ug/L	93
67) Chlorobenzene	7.806	112	34730	4.20 ug/L	93
68) 1,1,1,2-Tetrachloroethane	7.908	131	11935	3.93 ug/L #	18
69) Ethylbenzene	7.897	91	59985	4.27 ug/L	99
70) m,p-Xylene	8.020	106	47385	8.43 ug/L	90
71) o-Xylene	8.394	106	23297	4.19 ug/L	92
72) Xylene (Total)	8.020	106	70685m	12.36 ug/L	
73) Styrene	8.421	104	39554	4.21 ug/L	98
74) Bromoform	8.598	173	8081	4.40 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

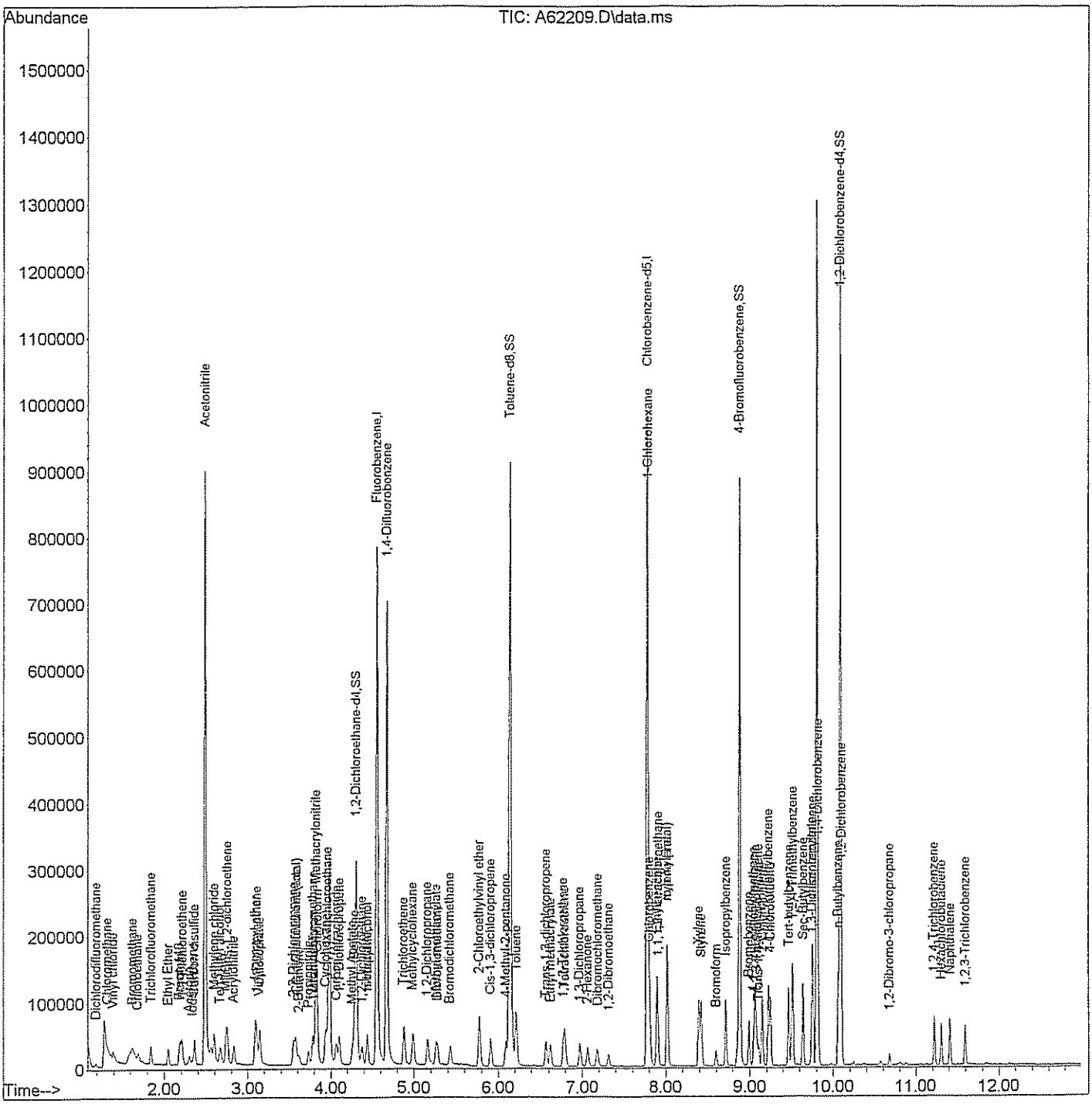
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	51123	4.25	ug/L		100
77) Bromobenzene	8.994	156	13648	4.16	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	14505	4.66	ug/L		95
79) 1,2,3-Trichloropropane	9.085	110	4733	5.19	ug/L		86
80) n-Propylbenzene	9.063	91	70946	4.31	ug/L		99
81) Trans-1,4-dichloro-2-b...	9.106	53	4560	5.46	ug/L	#	25
82) 2-Chlorotoluene	9.149	126	14908	4.30	ug/L	#	83
83) 4-Chlorotoluene	9.245	126	15465	4.31	ug/L		86
84) 1,3,5-Trimethylbenzene	9.224	105	48345	4.05	ug/L		98
85) Tert-butylbenzene	9.470	119	42422	4.07	ug/L		96
87) 1,2,4-Trimethylbenzene	9.518	105	50363	4.06	ug/L		94
88) Sec-Butylbenzene	9.641	105	63647	4.00	ug/L		98
89) 1,3-Dichlorobenzene	9.743	146	26904	3.80	ug/L		98
90) 4-Isopropyltoluene	9.753	119	54688	3.96	ug/L		98
91) 1,4-Dichlorobenzene	9.817	146	28782	4.10	ug/L		93
93) 1,2-Dichlorobenzene	10.101	146	25653	3.79	ug/L		86
94) n-Butylbenzene	10.058	91	54952	4.25	ug/L		98
95) 1,2-Dibromo-3-chloropr...	10.679	75	2578	4.80	ug/L		86
96) 1,2,4-Trichlorobenzene	11.219	180	15481	3.92	ug/L		97
97) Hexachlorobutadiene	11.305	225	6672	3.59	ug/L		100
98) Naphthalene	11.412	128	41431	4.35	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	13348	4.01	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

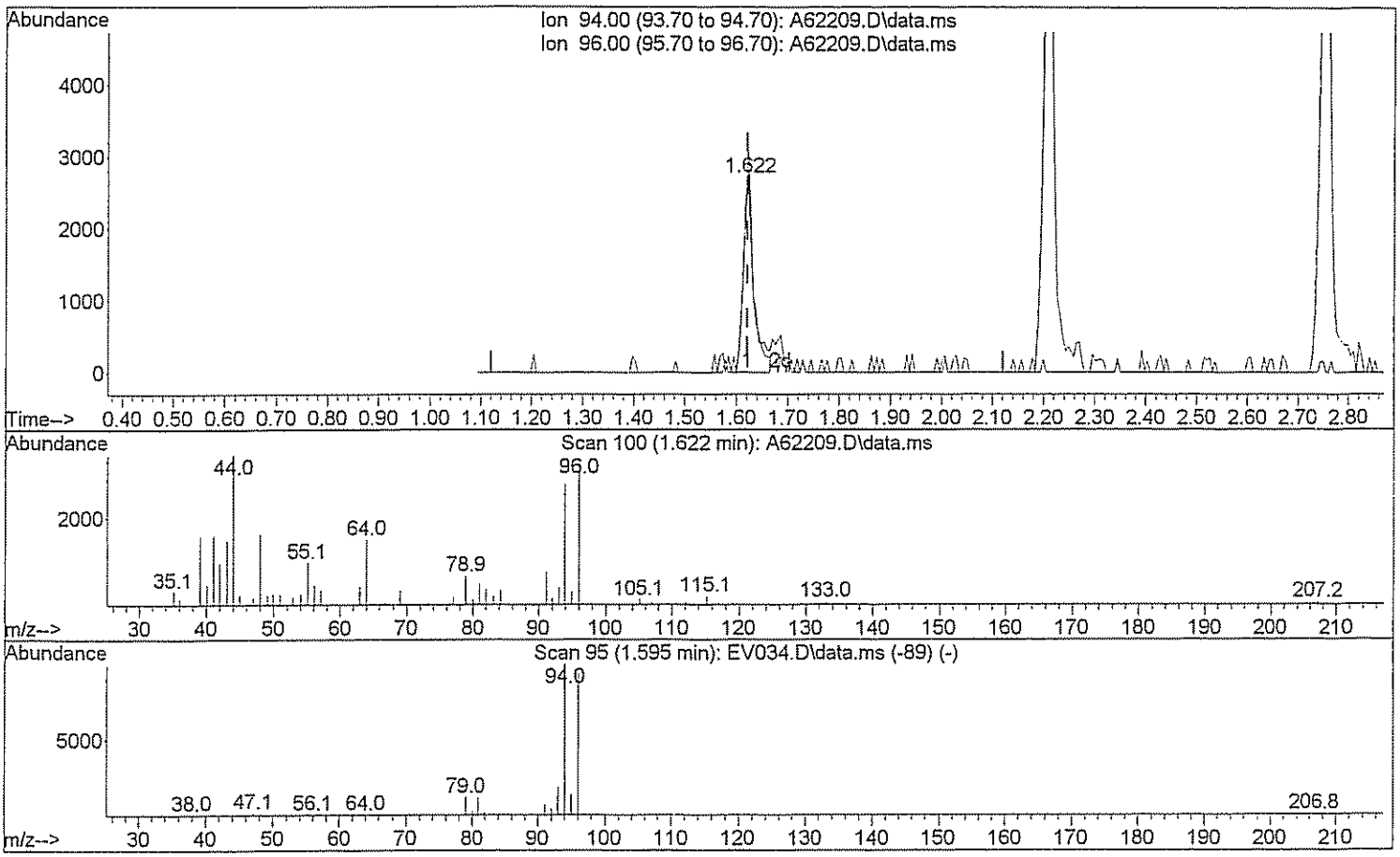
Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(5) Bromomethane

1.622min (+0.000) 3.06 ug/L

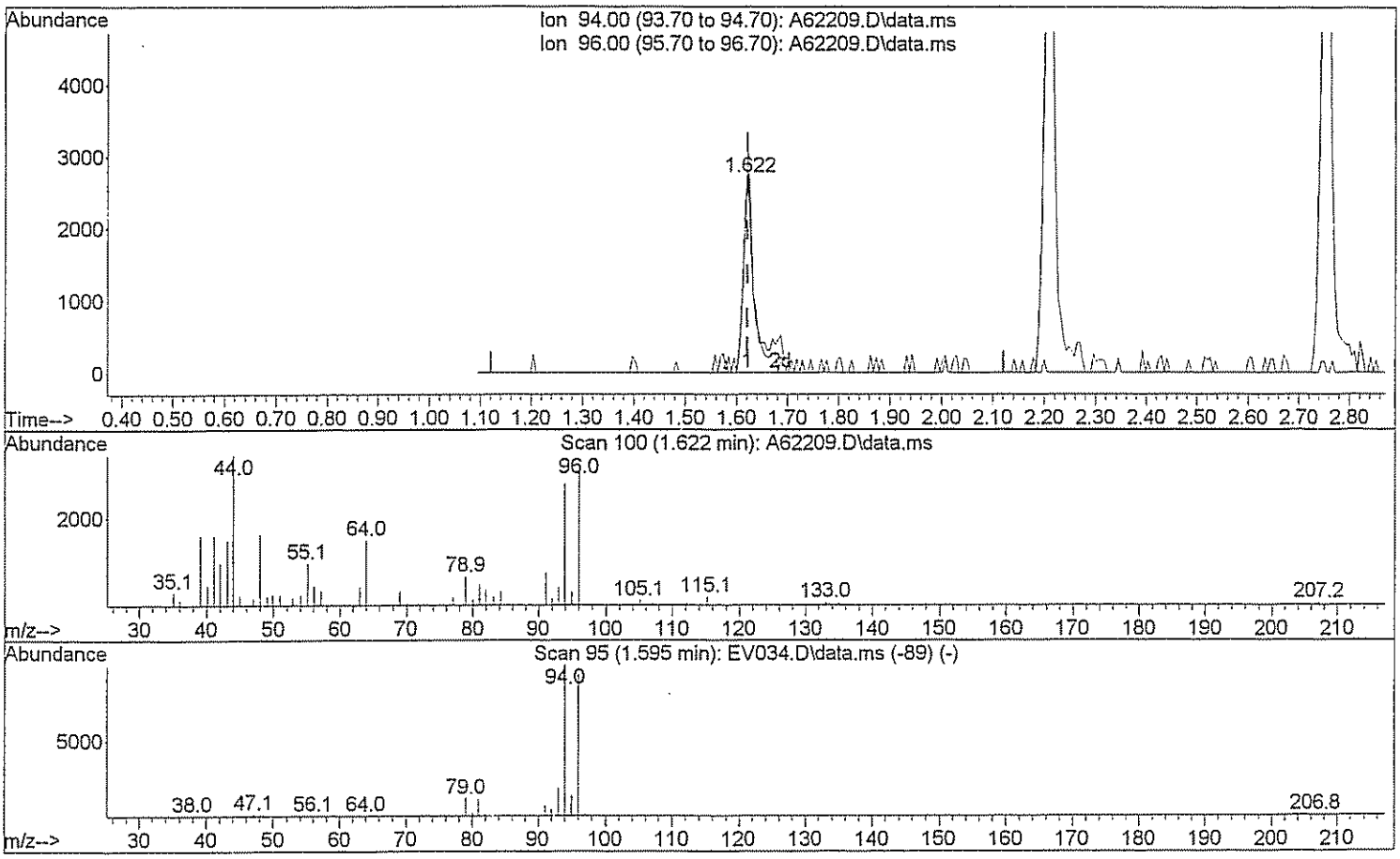
response 3686

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	114.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(5) Bromomethane

1.622min (+0.000) 3.53 ug/L m SW 3/17/09

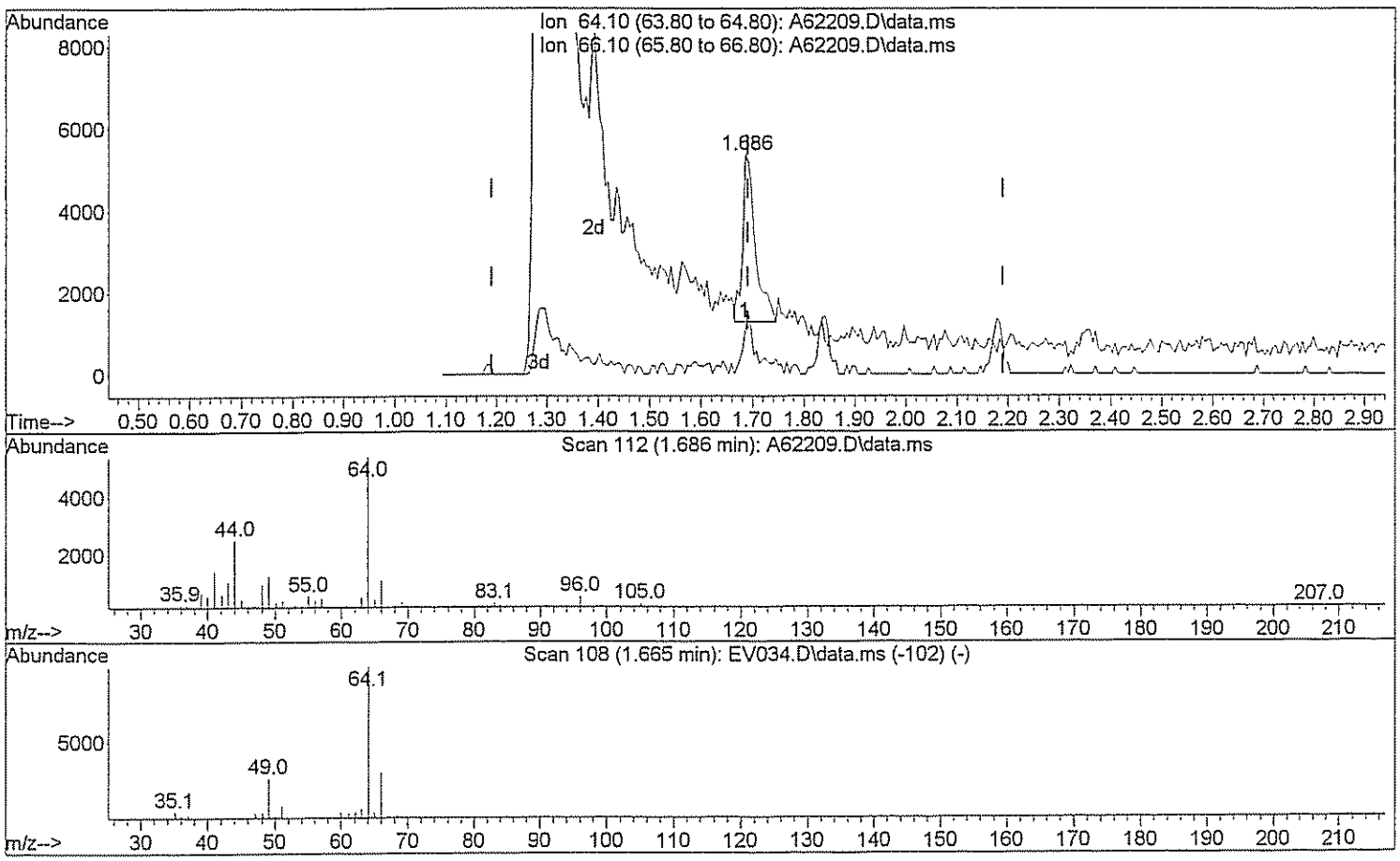
response 4253

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	98.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(6) Chloroethane

1.686min (-0.005) 3.89 ug/L

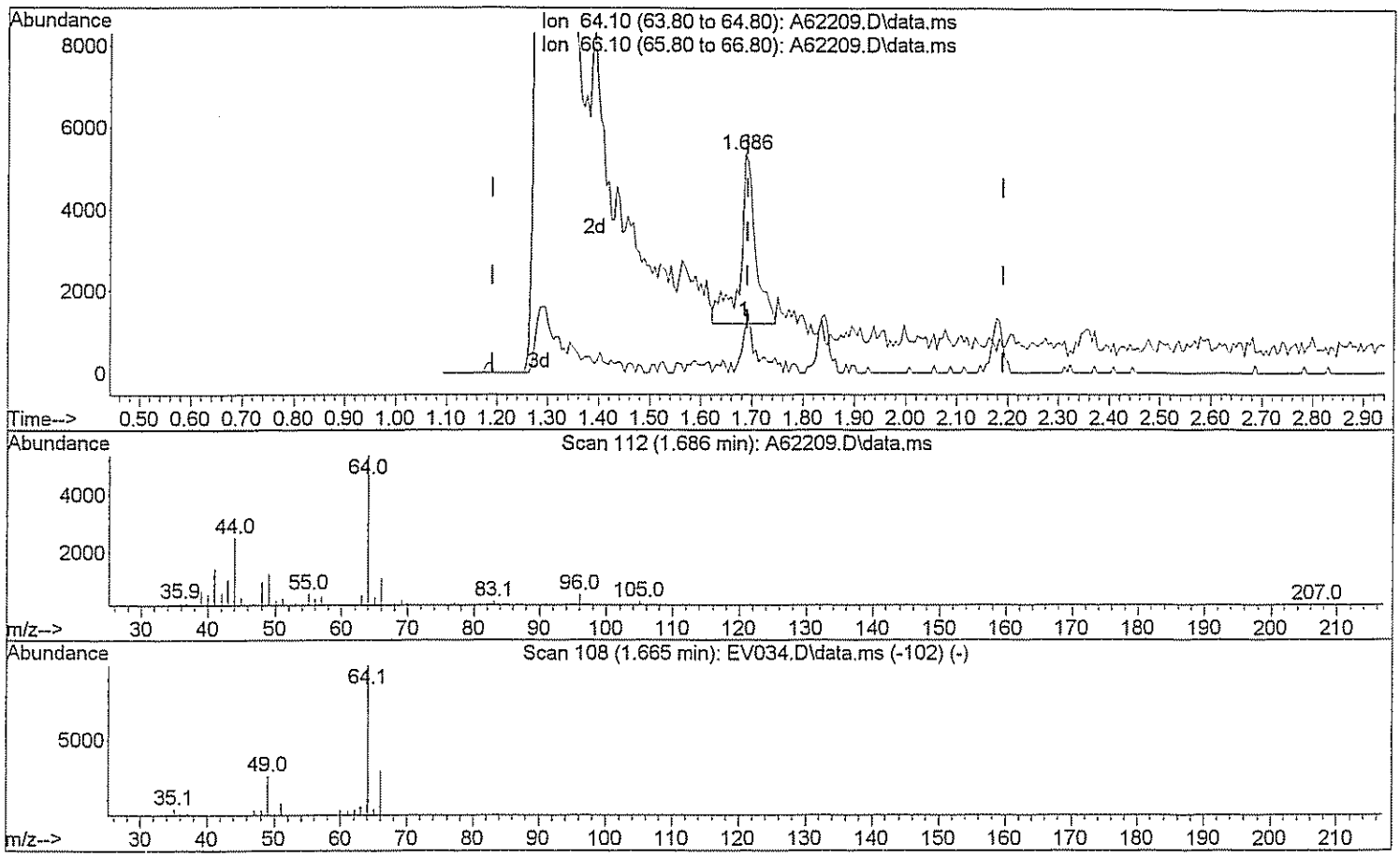
response 7032

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	29.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(6) Chloroethane

1.686min (-0.005) 4.93 ug/L m

3/17/09

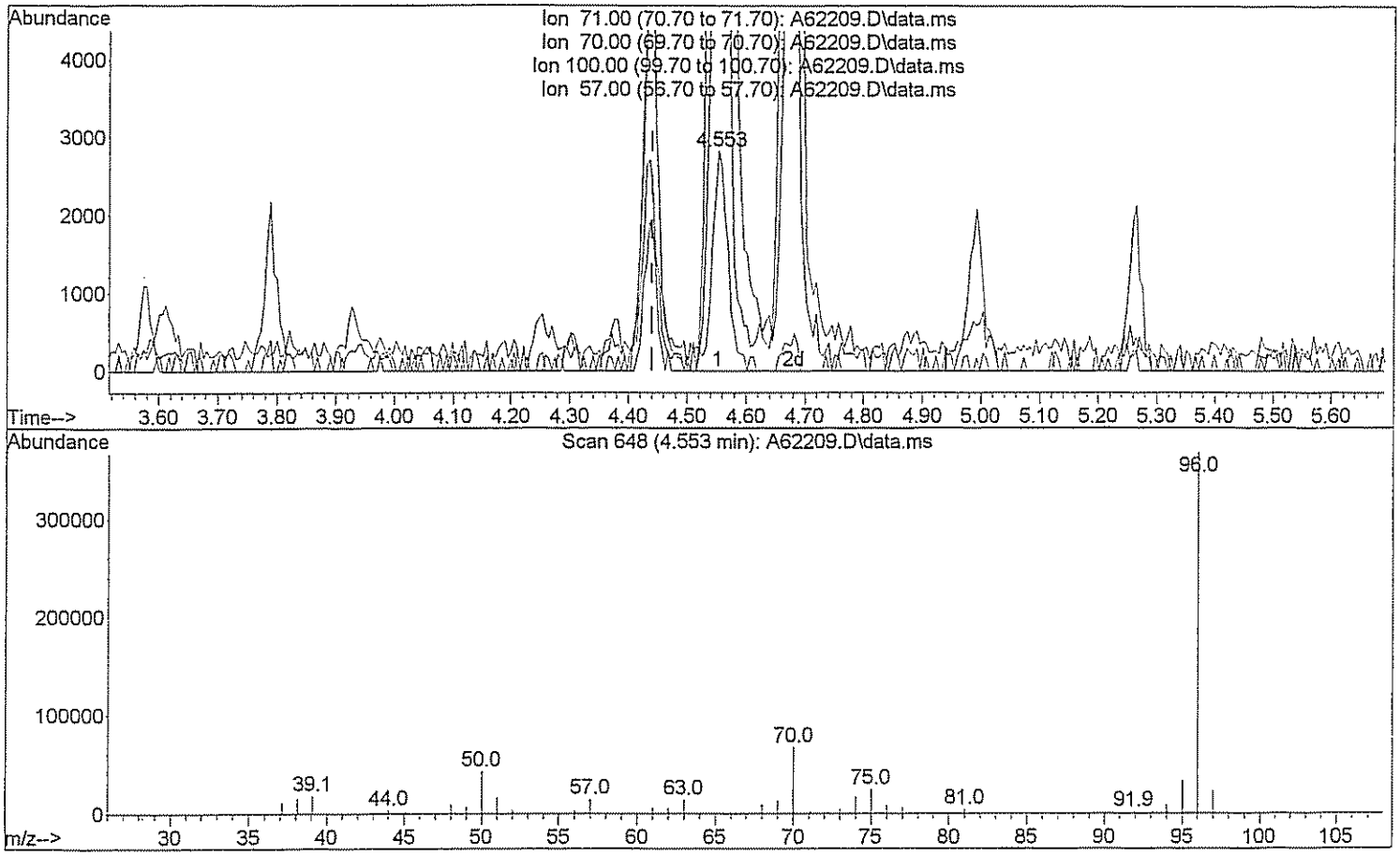
response 8923

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	23.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(26) n-Heptane (T)

4.553min (+0.112) 2.38 ug/L

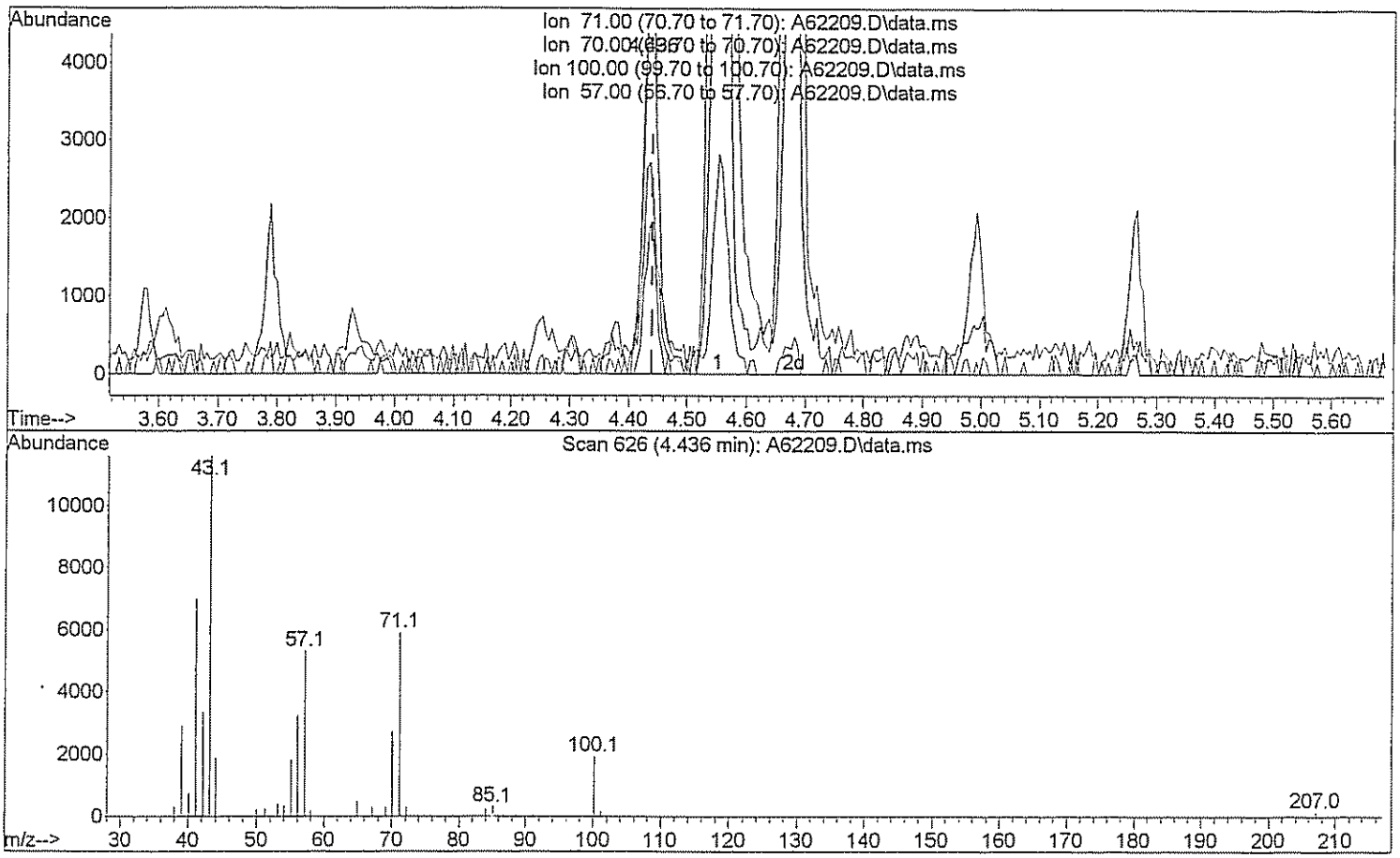
response 5249

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2067.21#
100.00	62.00	0.00#
57.00	40.00	486.55#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(26) n-Heptane (T)

4.436min (-0.005) 4.38 ug/L m DW 3/17/09

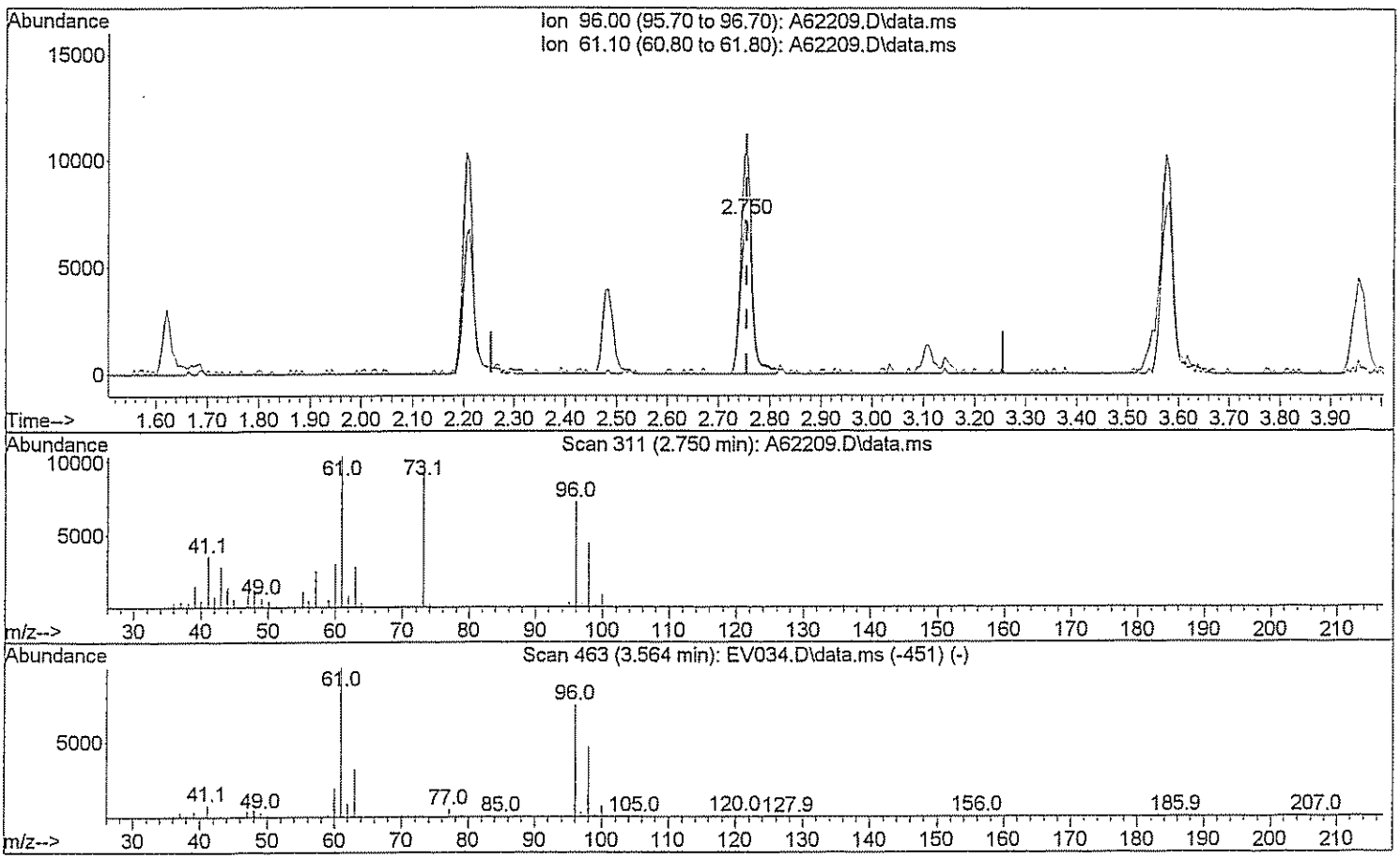
response 9657

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1123.62#
100.00	62.00	0.00#
57.00	40.00	264.46#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 3.82 ug/L

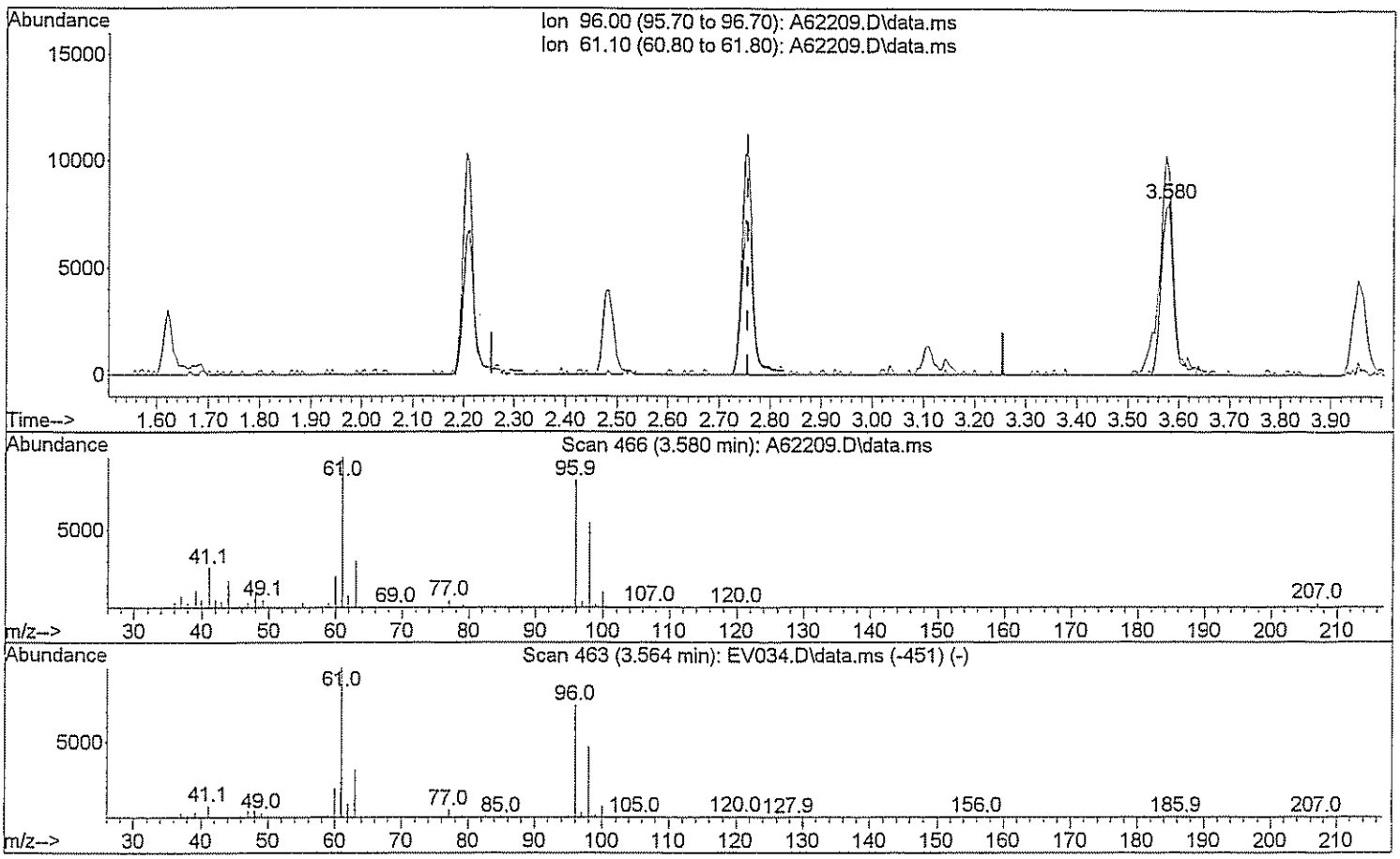
response 11537

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	134.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.824) 9.07 ug/L m DN 3/17/09

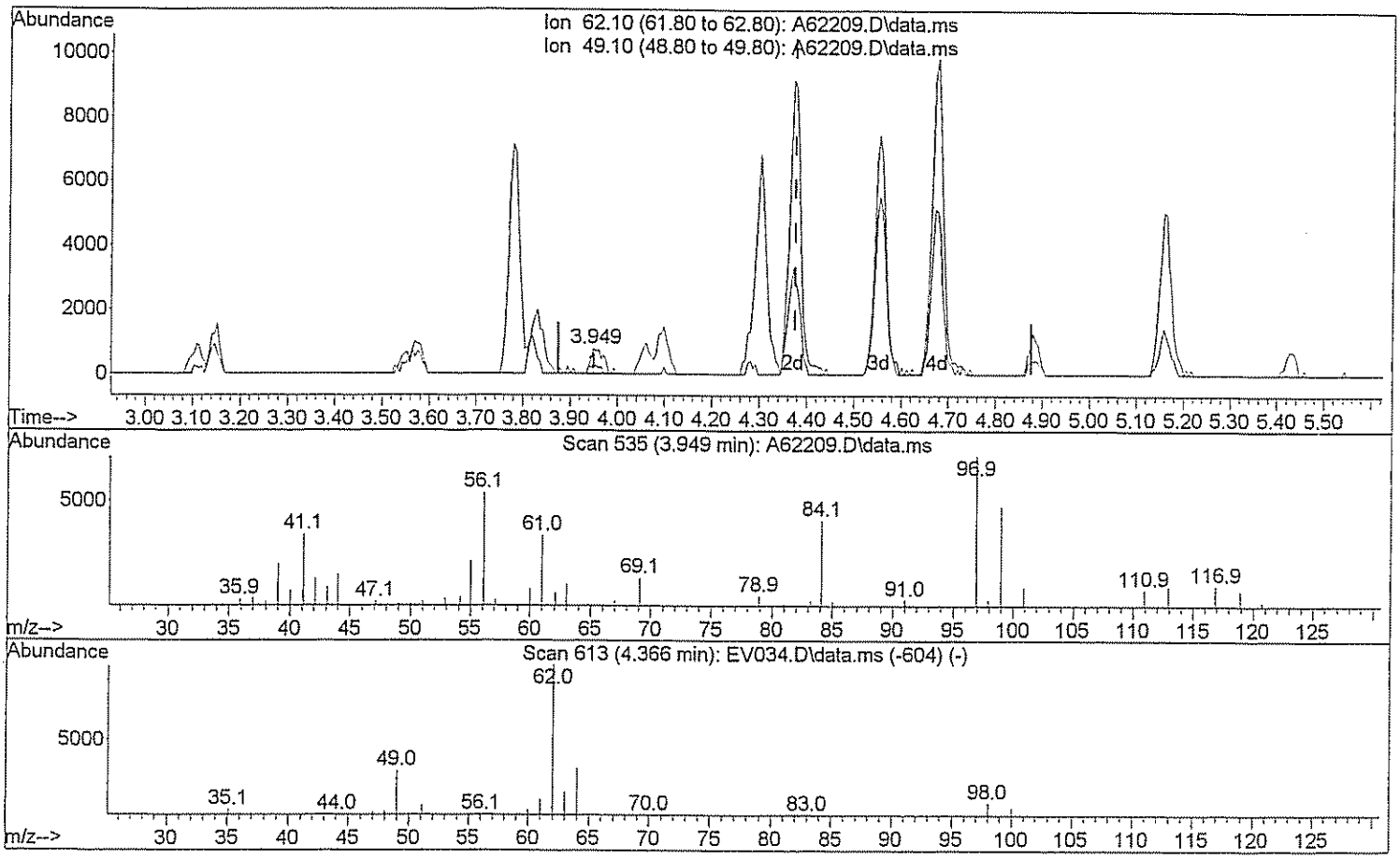
response 27425

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	56.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(46) 1,2-Dichloroethane

3.949min (-0.428) 0.37 ug/L

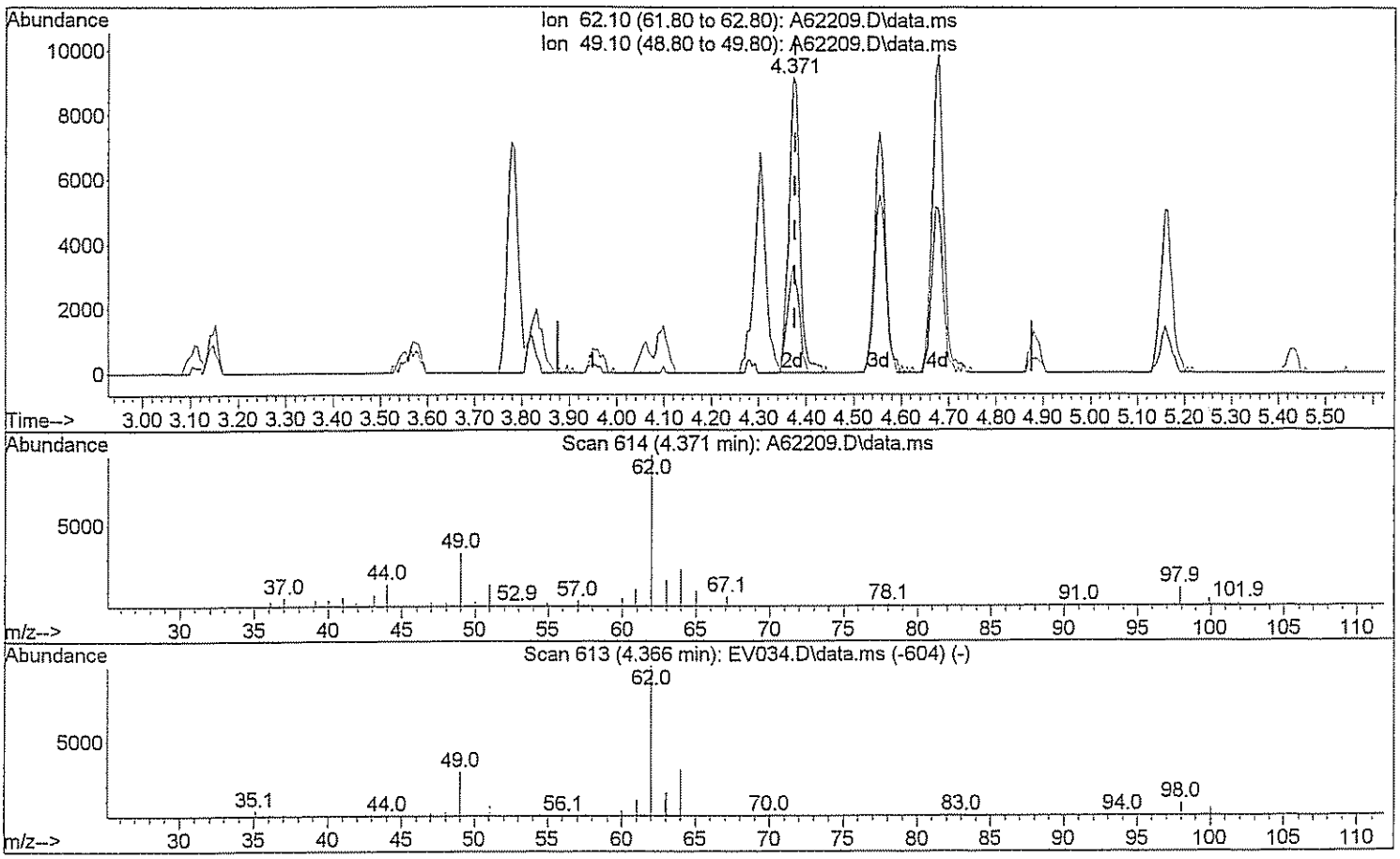
response 1349

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	28.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(46) 1,2-Dichloroethane

4.371min (-0.005) 4.16 ug/L m

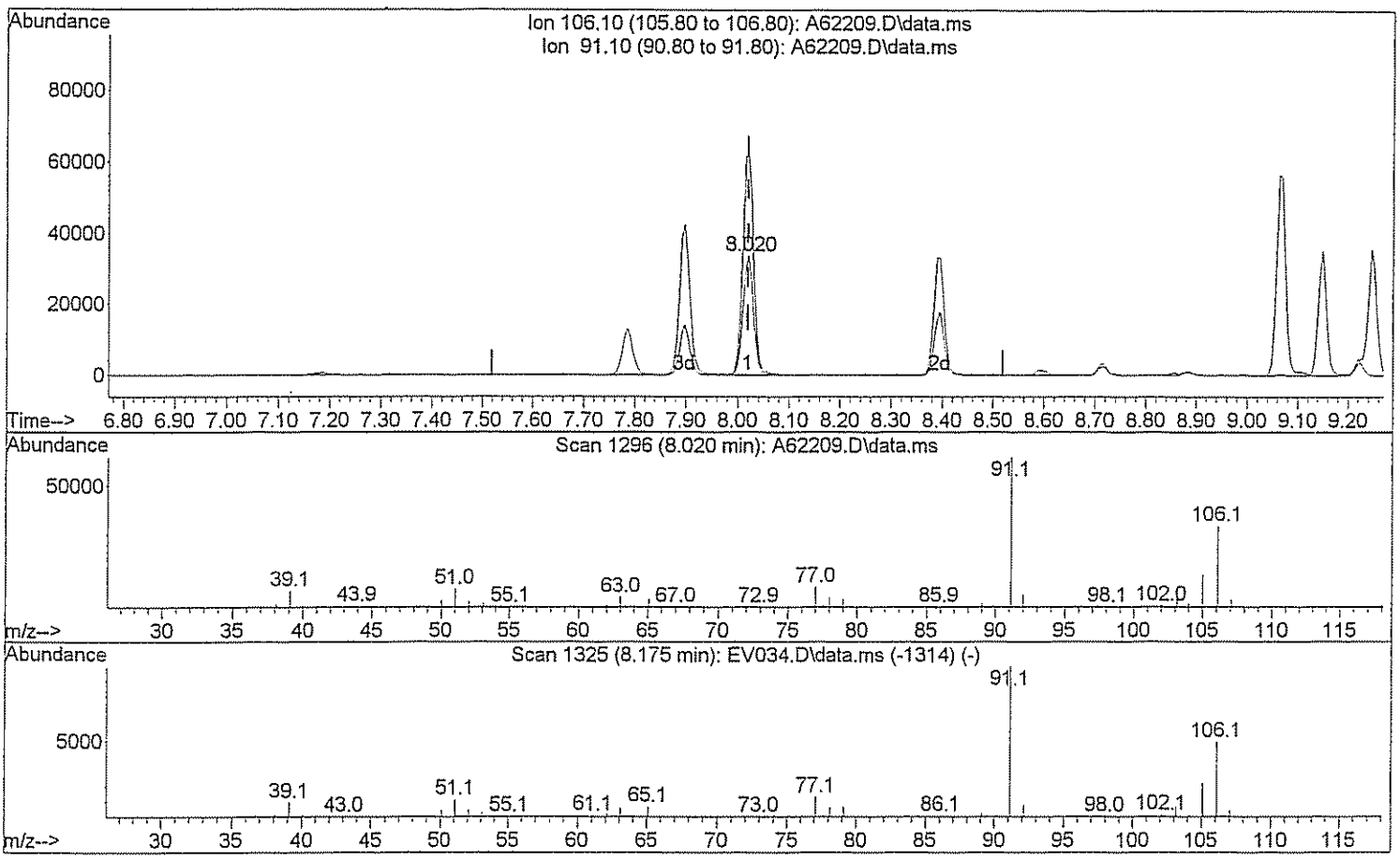
response 15061

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 8.28 ug/L

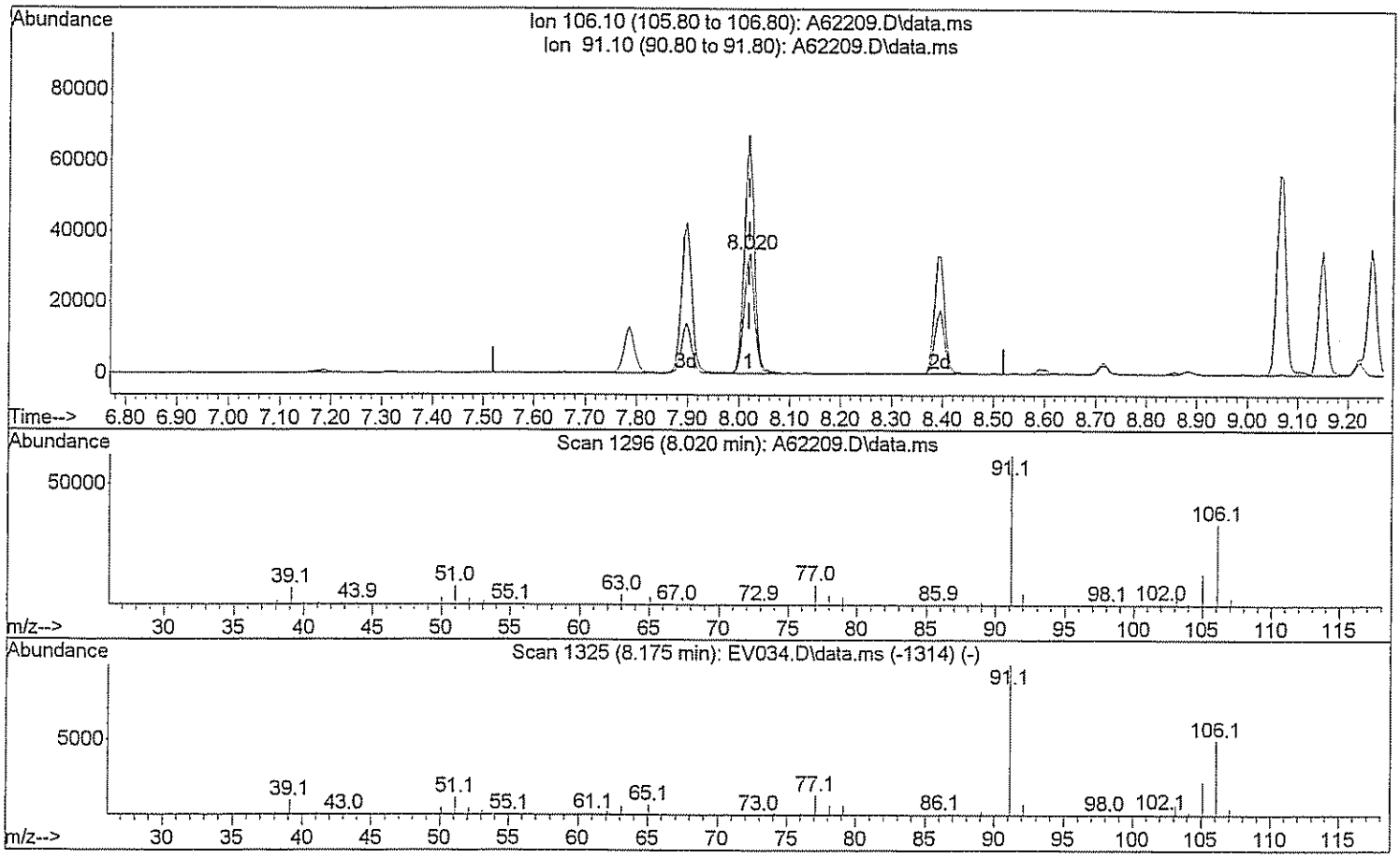
response 47385

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 12.36 ug/L m SM 3/17/09

response 70685

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.45#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	553220	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	454496	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	419468	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	145754	48.73	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.46%				
54) Toluene-d8	6.142	98	518648	48.17	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.34%				
76) 4-Bromofluorobenzene	8.881	95	198881	50.11	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.22%				
92) 1,2-Dichlorobenzene-d4	10.085	152	191647	47.67	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 95.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	22683	21.82	ug/L		97
3) Chloromethane	1.327	50	38383m	20.68	ug/L		
4) Vinyl chloride	1.397	62	42503	18.03	ug/L	#	74
5) Bromomethane	1.622	94	21911	20.64	ug/L		87
6) Chloroethane	1.691	64	31385	19.31	ug/L		93
7) Trichlorofluoromethane	1.841	101	62310	18.86	ug/L		95
8) Ethyl Ether	2.044	59	36511	16.98	ug/L		96
9) Freon 113	2.183	101	38442	21.06	ug/L		90
10) Acrolein	2.189	56	34430	84.02	ug/L	#	64
11) Tert-Butyl alcohol	2.670	59	80163	309.29	ug/L	#	47
12) 1,1-Dichloroethene	2.210	96	37050	17.23	ug/L		86
13) Iodomethane	2.333	142	44272	24.05	ug/L		93
14) Acetonitrile	2.483	40	206871	139.91	ug/L	#	1
15) Methylene chloride	2.595	84	47036	18.14	ug/L		97
16) Trans-1,2-dichloroethene	2.756	96	43592	17.46	ug/L		86
17) Isopropyl ether	3.093	45	172315	17.62	ug/L		99
18) 1,1-Dichloroethane	3.109	63	81435	17.48	ug/L		99
19) Acetone	2.296	43	31043	32.22	ug/L		99
20) Methyl Acetate	4.259	43	40988	22.85	ug/L	#	100
21) MTBE	2.740	73	116553	17.36	ug/L		100
22) Carbon disulfide	2.360	76	130326	18.68	ug/L		100
24) Acrylonitrile	2.831	53	63684	86.41	ug/L		97
25) Chloroprene	3.146	53	74629	17.82	ug/L		92
26) n-Heptane	4.441	71	41645m	21.62	ug/L		
27) 2,2-Dichloropropane	3.553	77	65546	17.57	ug/L	#	78
28) Cis-1,2-dichloroethene	3.580	96	51423	18.07	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	98727m	35.66	ug/L		
30) Propionitrile	3.735	54	61322	162.62	ug/L		98
31) Bromochloromethane	3.783	128	23720	17.41	ug/L		92
32) Tetrahydrofuran	3.788	72	10883	18.06	ug/L	#	22
33) Chloroform	3.836	83	78218	15.79	ug/L		99
34) Cyclohexane	3.938	56	82196	19.97	ug/L		94
35) 1,1,1-Trichloroethane	3.959	97	67891	17.72	ug/L		98
36) Carbon tetrachloride	4.066	117	58586	17.41	ug/L		99
37) Methacrylonitrile	3.826	41	319463	153.51	ug/L	#	16
38) Methylcyclohexane	4.992	83	78324	20.75	ug/L		92
39) Isobutyl Alcohol	4.436	43	77335	452.45	ug/L		89
42) 2-Butanone	3.617	43	53217	33.16	ug/L		98
43) 1,1-Dichloropropene	4.099	75	60167	17.60	ug/L		100
44) Vinyl Acetate	3.136	43	58557	16.36	ug/L	#	95
45) Benzene	4.286	78	186683	17.77	ug/L		100
46) 1,2-Dichloroethane	4.377	62	58822	17.72	ug/L	#	85
47) Trichloroethene	4.885	95	47885	18.47	ug/L		98
48) 1,2-Dichloropropane	5.163	63	47828	17.38	ug/L		96
49) Methyl methacrylate	5.265	69	31100	17.47	ug/L		93
50) Dibromomethane	5.281	93	26649	16.54	ug/L		100
51) Bromodichloromethane	5.431	83	60679	17.62	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	27174	27.32	ug/L		99
53) Cis-1,3-dichloropropene	5.917	75	73064	16.84	ug/L		97
55) Toluene	6.217	92	120757	17.25	ug/L		97
56) Trans-1,3-dichloropropene	6.570	75	65209	16.50	ug/L		98
57) Ethyl methacrylate	6.624	69	58889	17.54	ug/L		94
58) 1,1,2-Trichloroethane	6.773	83	35068	17.24	ug/L		99
60) 4-Methyl-2-pentanone	6.094	43	95219	37.44	ug/L		95
61) 2-Hexanone	7.062	43	65905	35.06	ug/L	#	98
62) Tetrachloroethene	6.795	166	47752	17.78	ug/L		99
63) 1,3-Dichloropropane	6.971	76	66347	17.70	ug/L		93
64) Dibromochloromethane	7.185	129	48825	17.81	ug/L		95
65) 1,2-Dibromoethane	7.314	107	41606	18.45	ug/L		98
66) 1-Chlorohexane	7.785	91	68657	18.67	ug/L		98
67) Chlorobenzene	7.806	112	137741	17.81	ug/L		92
68) 1,1,1,2-Tetrachloroethane	7.908	131	48936	17.09	ug/L		94
69) Ethylbenzene	7.897	91	233839	17.81	ug/L		99
70) m,p-Xylene	8.020	106	187997	35.38	ug/L		90
71) o-Xylene	8.394	106	94963	18.42	ug/L		88
72) Xylene (Total)	8.020	106	283667m	52.95	ug/L		
73) Styrene	8.421	104	156053	17.74	ug/L		96
74) Bromoform	8.598	173	29487	16.98	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

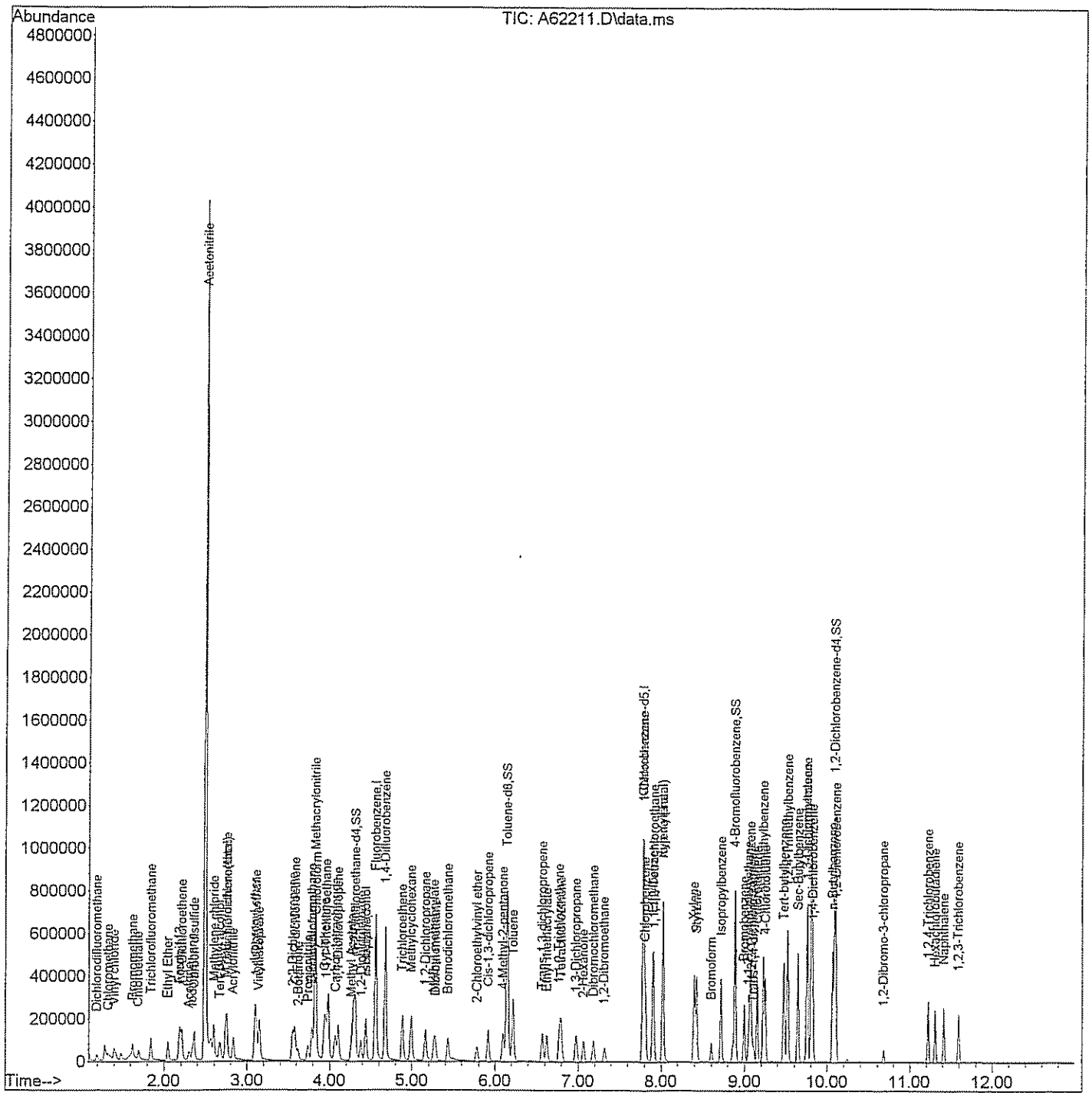
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	200704	17.88	ug/L		98
77) Bromobenzene	8.994	156	54693	17.85	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	51631	17.71	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	15281	17.96	ug/L		98
80) n-Propylbenzene	9.068	91	277751	18.11	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	10745	14.15	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	59122	18.39	ug/L		87
83) 4-Chlorotoluene	9.250	126	59717	17.79	ug/L		92
84) 1,3,5-Trimethylbenzene	9.224	105	195130	17.41	ug/L		95
85) Tert-butylbenzene	9.470	119	169553	17.29	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	198690	16.93	ug/L		92
88) Sec-Butylbenzene	9.641	105	260702	17.44	ug/L		99
89) 1,3-Dichlorobenzene	9.748	146	111192	16.52	ug/L		99
90) 4-Isopropyltoluene	9.753	119	224435	17.00	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	113933	17.23	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	104653	17.01	ug/L		98
94) n-Butylbenzene	10.063	91	210224	17.28	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	8530	16.76	ug/L		81
96) 1,2,4-Trichlorobenzene	11.224	180	60919	16.13	ug/L		99
97) Hexachlorobutadiene	11.305	225	28493	16.01	ug/L		96
98) Naphthalene	11.412	128	147178	16.20	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	51745	16.32	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

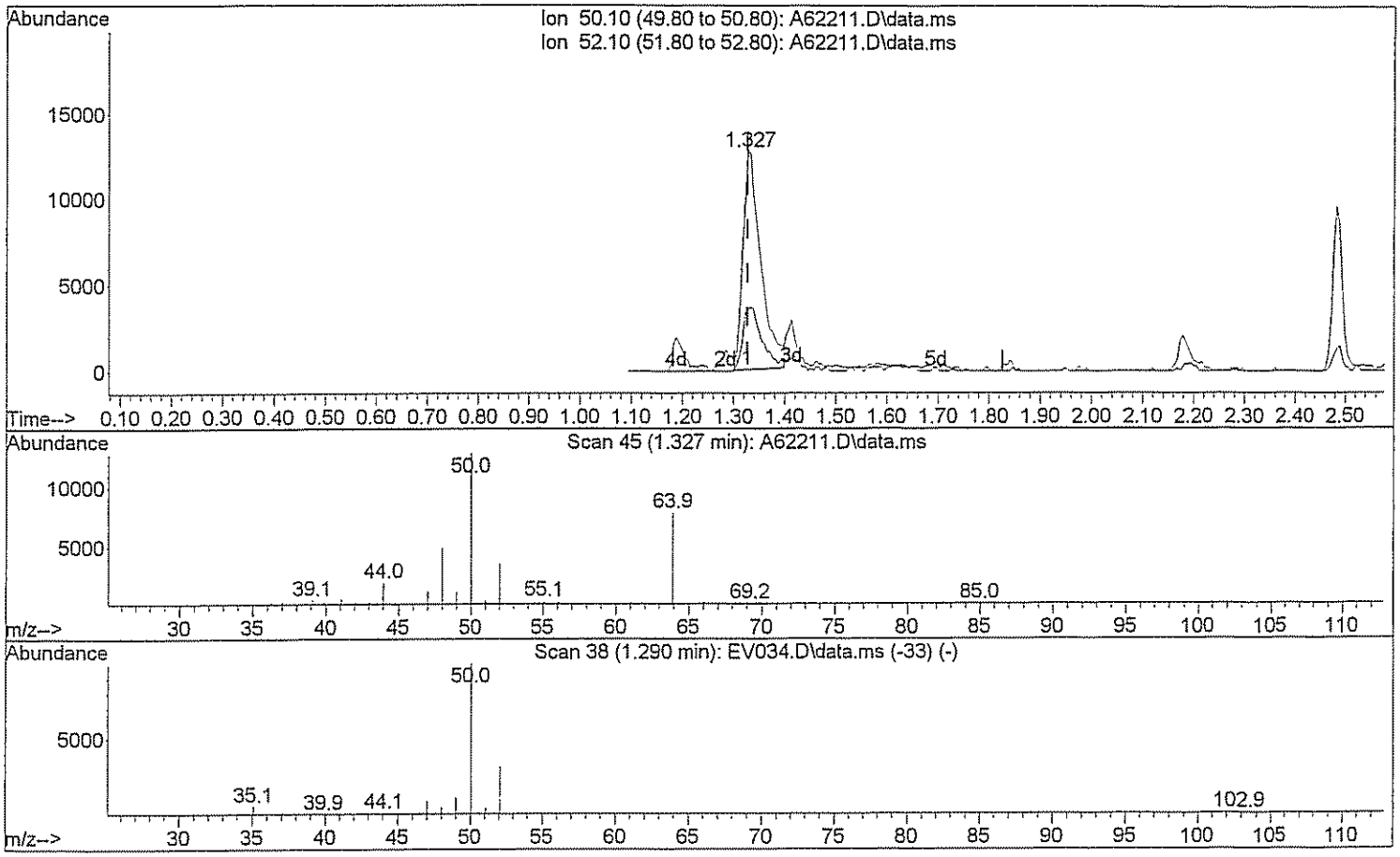
Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(3) Chloromethane

1.327min (-0.000) 16.63 ug/L

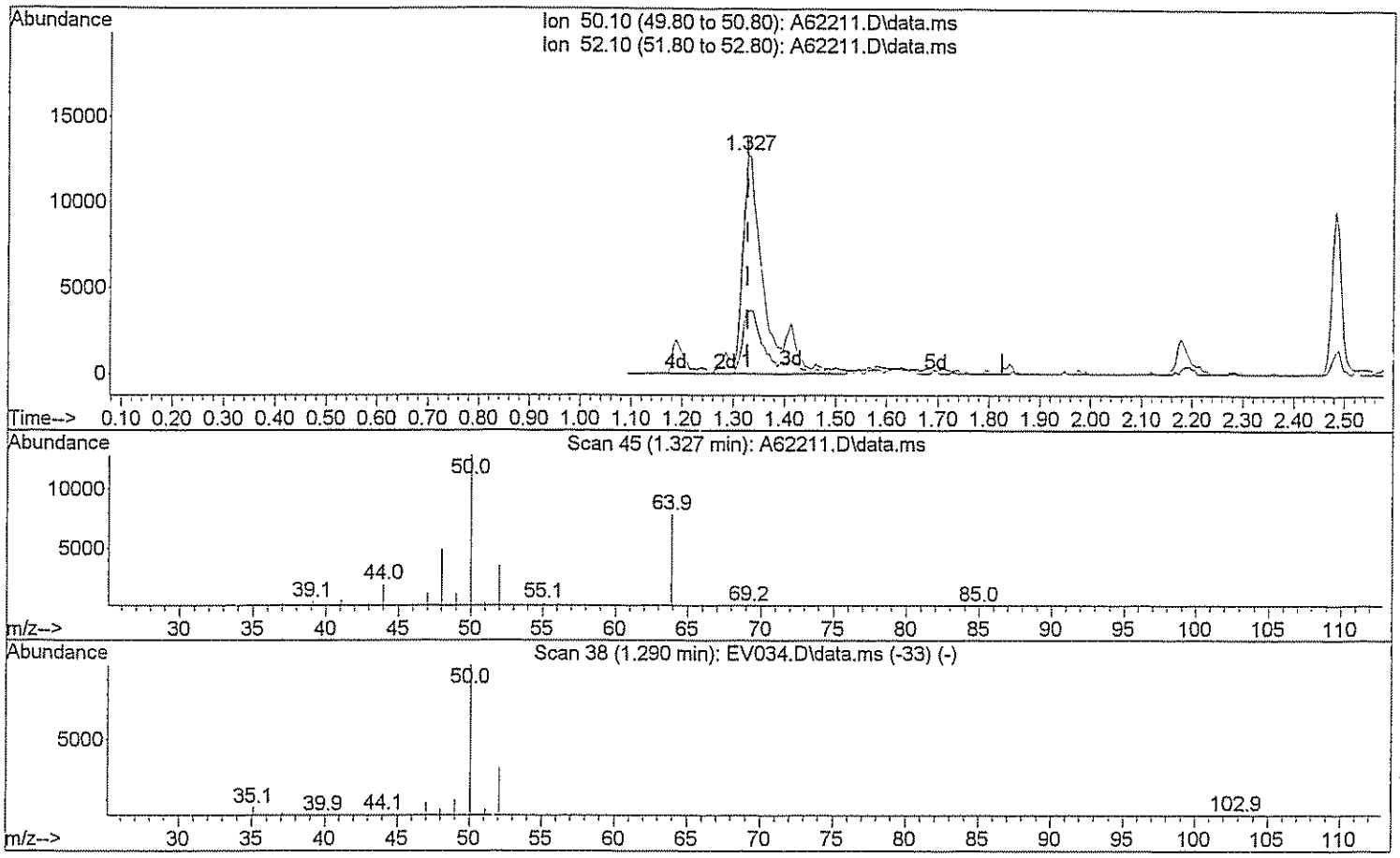
response 30866

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	31.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(3) Chloromethane

1.327min (-0.000) 20.68 ug/L m DM 3/17/09

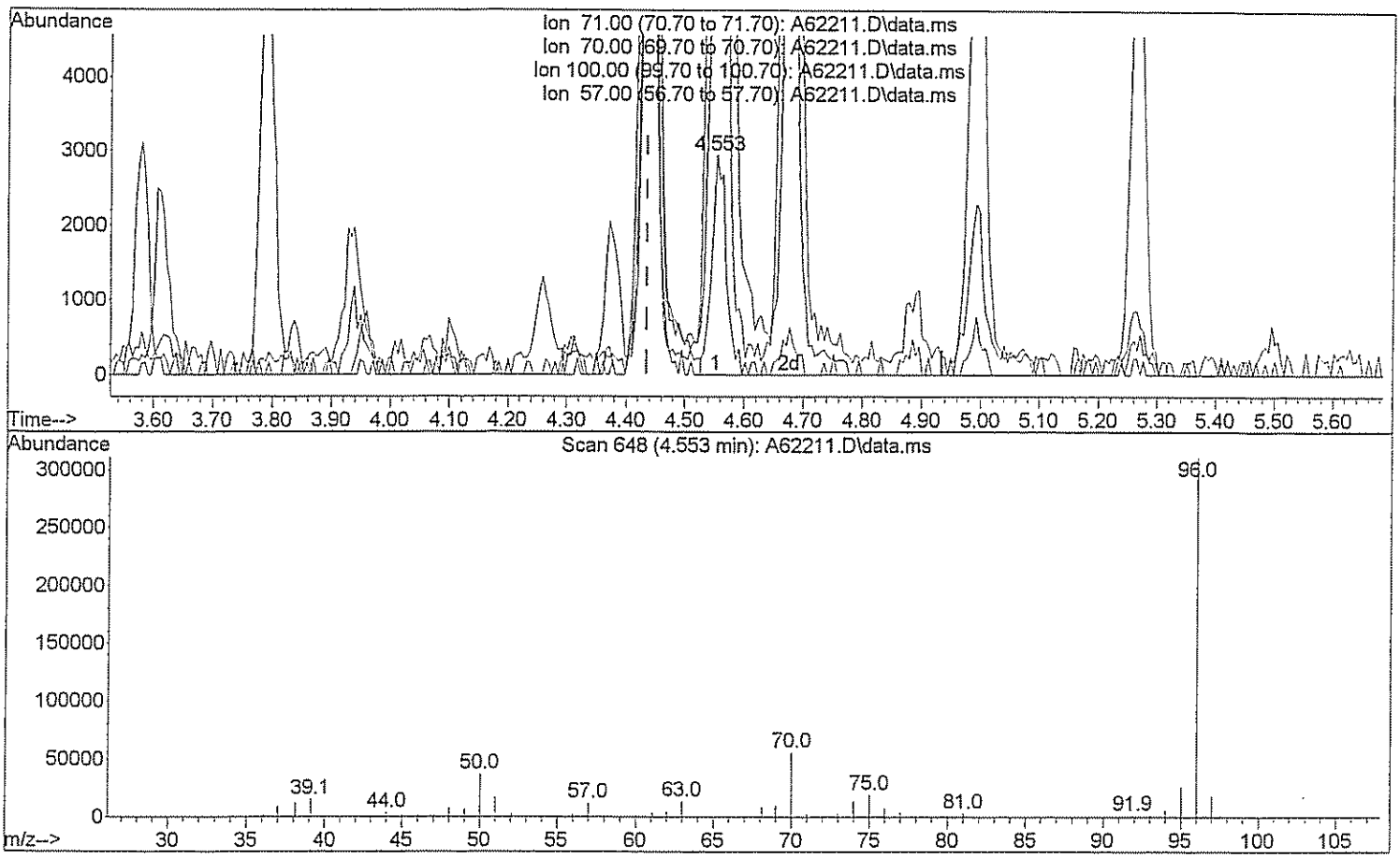
response 38383

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	24.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.60 ug/L

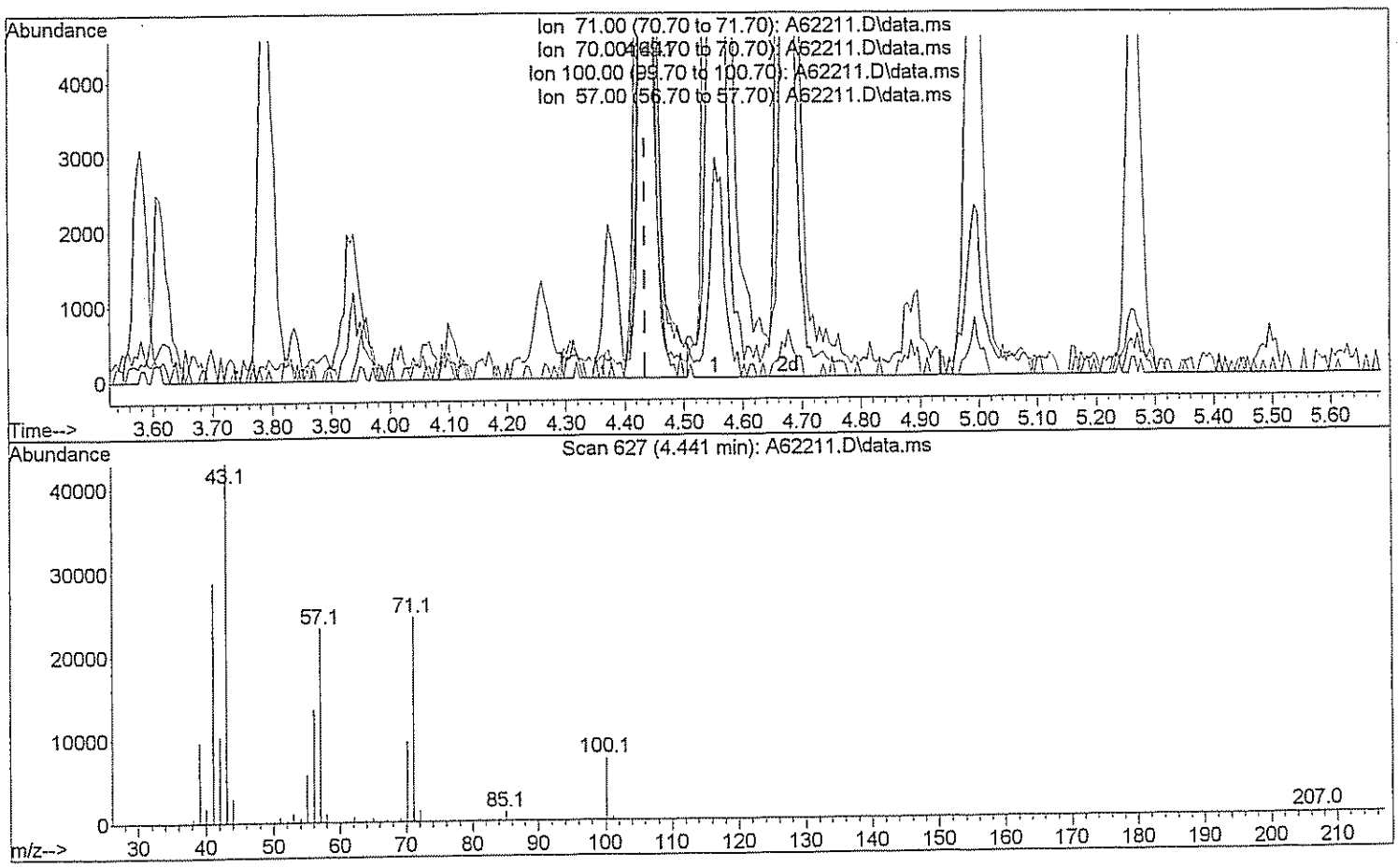
response 5014

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1952.27#
100.00	62.00	0.00#
57.00	40.00	404.87#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(26) n-Heptane (T)

4.441min (+0.005) 21.62 ug/L m DW 3/17/09

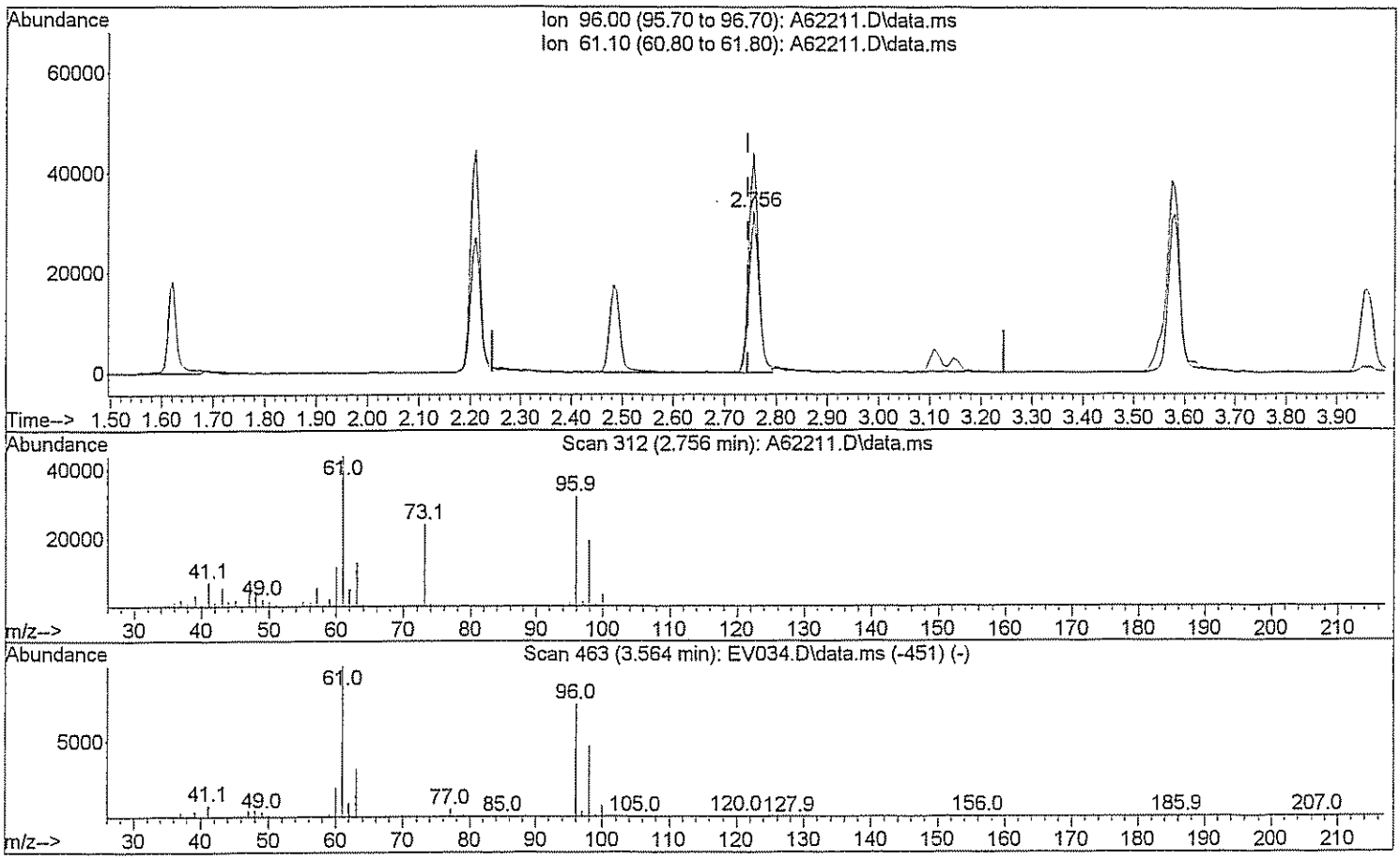
response 41645

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	235.05#
100.00	62.00	0.00#
57.00	40.00	48.75#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.011) 15.74 ug/L

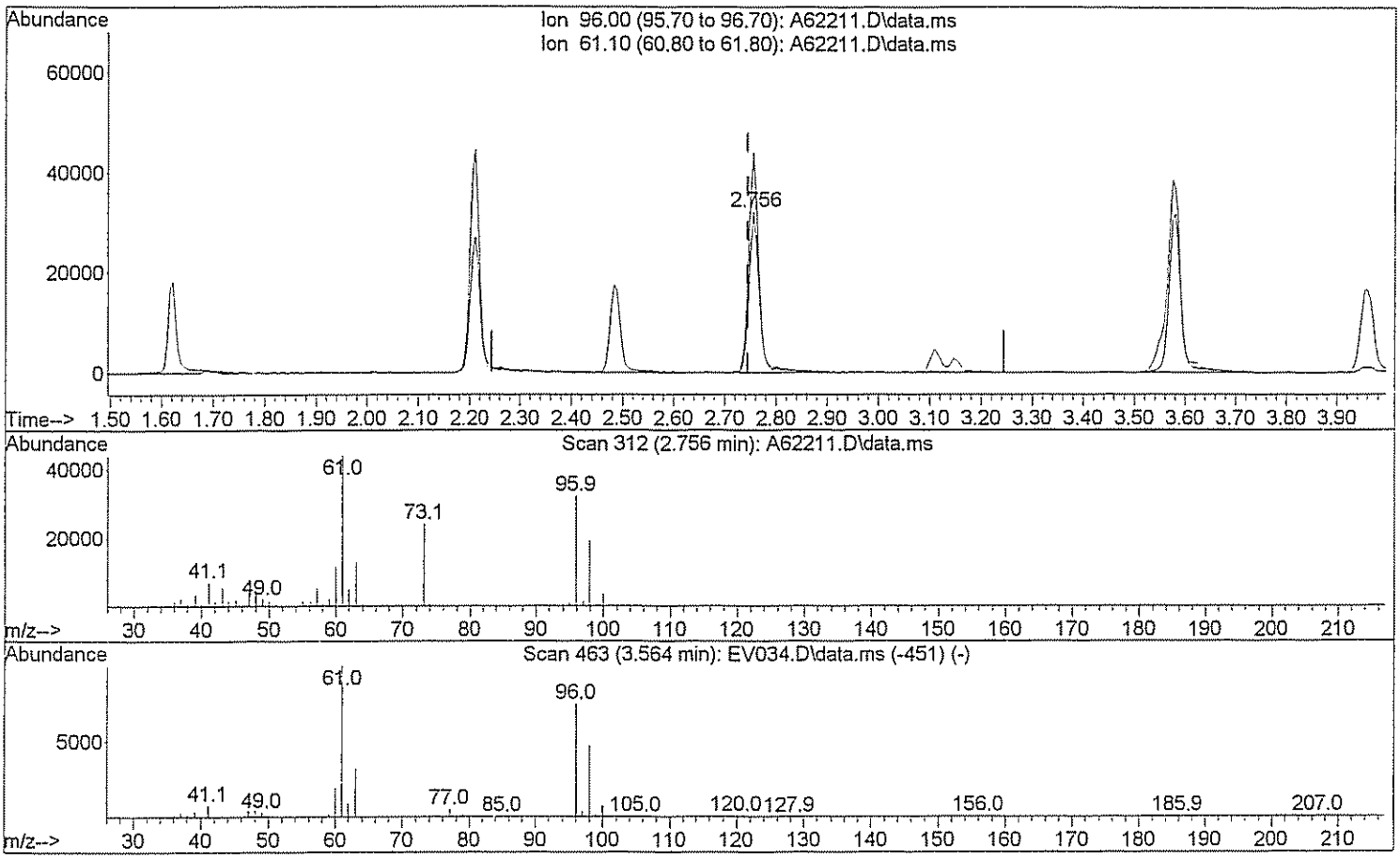
response 43592

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	136.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.011) 35.66 ug/L m DM 3/17/09

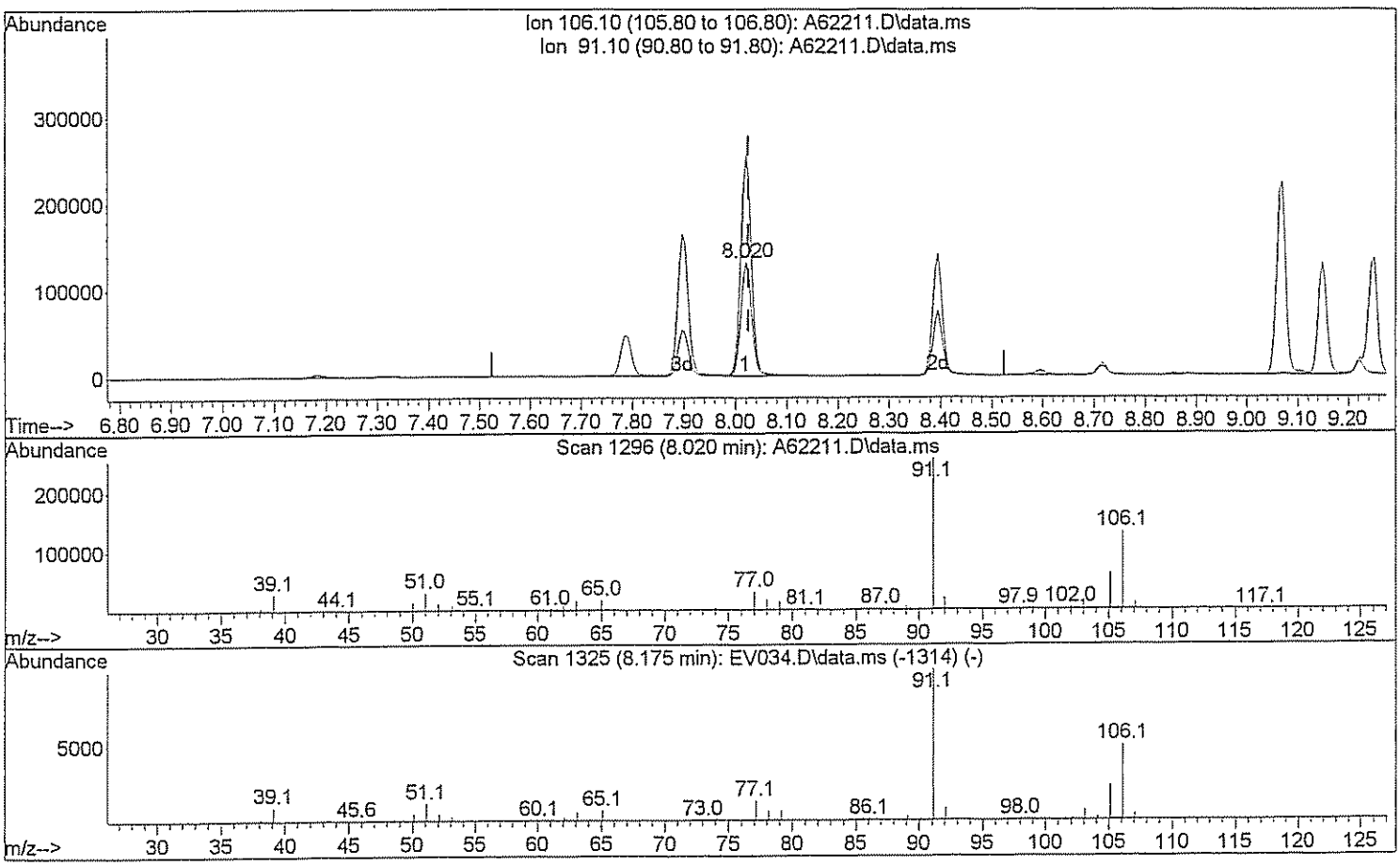
response 98727

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(72) Xylene (Total)

8.020min (-0.005) 35.09 ug/L

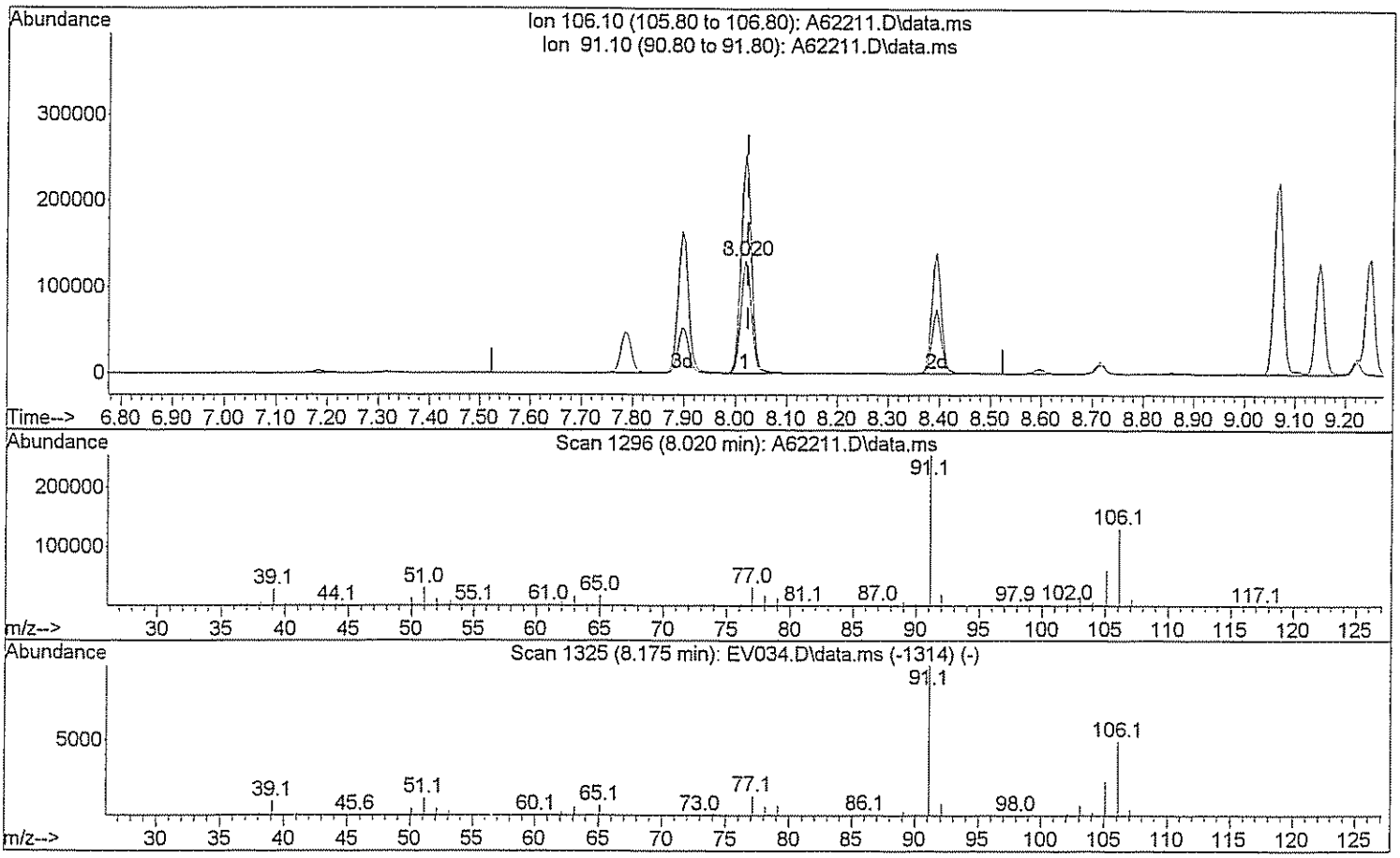
response 187997

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(72) Xylene (Total)

8.020min (-0.005) 52.95 ug/L m

response 283667

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.02#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	517488	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	422933	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	401270	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	136891	50.00	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.00%				
54) Toluene-d8	6.142	98	489895	50.00	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.00%				
76) 4-Bromofluorobenzene	8.881	95	191568	50.00	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.00%				
92) 1,2-Dichlorobenzene-d4	10.085	152	186765	50.00	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 100.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	50493	50.00	ug/L		99
3) Chloromethane	1.333	50	75038	50.00	ug/L		99
4) Vinyl chloride	1.392	62	109090	50.00	ug/L		89
5) Bromomethane	1.616	94	40459	50.00	ug/L		93
6) Chloroethane	1.681	64	73681	50.00	ug/L		98
7) Trichlorofluoromethane	1.830	101	150042	50.00	ug/L		99
8) Ethyl Ether	2.044	59	98047	50.00	ug/L		97
9) Freon 113	2.173	101	85406	50.00	ug/L		88
10) Acrolein	2.189	56	92821	250.00	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	267348	1000.00	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	97387	50.00	ug/L		88
13) Iodomethane	2.328	142	47106	50.00	ug/L		98
14) Acetonitrile	2.478	40	640731	500.00	ug/L	#	1
15) Methylene chloride	2.590	84	116172	50.00	ug/L		97
16) Trans-1,2-dichloroethene	2.750	96	114422	50.00	ug/L		88
17) Isopropyl ether	3.093	45	452281	50.00	ug/L		97
18) 1,1-Dichloroethane	3.104	63	212749	50.00	ug/L		100
19) Acetone	2.296	43	93893	100.00	ug/L		98
20) Methyl Acetate	4.259	43	132527	50.00	ug/L	#	100
21) MTBE	2.740	73	315419	50.00	ug/L		100
22) Carbon disulfide	2.349	76	315893	50.00	ug/L		100
24) Acrylonitrile	2.831	53	172844	250.00	ug/L		100
25) Chloroprene	3.146	53	183033	50.00	ug/L		89
26) n-Heptane	4.436	71	89309m	49.81	ug/L		
27) 2,2-Dichloropropane	3.548	77	172586	50.00	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	130958	50.00	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.750	96	250709m	99.75	ug/L		
30) Propionitrile	3.735	54	181196	500.00	ug/L		100
31) Bromochloromethane	3.778	128	61344	50.00	ug/L		94
32) Tetrahydrofuran	3.788	72	28703	50.00	ug/L	#	1
33) Chloroform	3.836	83	206436	50.00	ug/L		99
34) Cyclohexane	3.933	56	185439	50.00	ug/L		92
35) 1,1,1-Trichloroethane	3.954	97	172467	50.00	ug/L		100
36) Carbon tetrachloride	4.061	117	150120	50.00	ug/L		97
37) Methacrylonitrile	3.826	41	905465	500.00	ug/L	#	16
38) Methylcyclohexane	4.992	83	172498	50.00	ug/L		93
39) Isobutyl Alcohol	4.436	43	164334	1000.00	ug/L		90
42) 2-Butanone	3.612	43	156619	100.00	ug/L		96
43) 1,1-Dichloropropene	4.099	75	156550	50.00	ug/L		98
44) Vinyl Acetate	3.130	43	169548	50.00	ug/L		98
45) Benzene	4.280	78	472720	50.00	ug/L		100
46) 1,2-Dichloroethane	4.371	62	151934	50.00	ug/L	#	85
47) Trichloroethene	4.885	95	117651	50.00	ug/L		92
48) 1,2-Dichloropropane	5.163	63	126153	50.00	ug/L		93
49) Methyl methacrylate	5.259	69	84950	50.00	ug/L		100
50) Dibromomethane	5.276	93	74340	50.00	ug/L		99
51) Bromodichloromethane	5.431	83	159151	50.00	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	279014	200.00	ug/L		97
53) Cis-1,3-dichloropropene	5.912	75	198463	50.00	ug/L		99
55) Toluene	6.217	92	313028	50.00	ug/L		100
56) Trans-1,3-dichloropropene	6.570	75	182970	50.00	ug/L		97
57) Ethyl methacrylate	6.624	69	154204	50.00	ug/L		95
58) 1,1,2-Trichloroethane	6.773	83	93153	50.00	ug/L		99
60) 4-Methyl-2-pentanone	6.094	43	257968	100.00	ug/L		99
61) 2-Hexanone	7.062	43	190783	100.00	ug/L		98
62) Tetrachloroethene	6.789	166	122244	50.00	ug/L		95
63) 1,3-Dichloropropane	6.971	76	181121	50.00	ug/L		92
64) Dibromochloromethane	7.185	129	129242	50.00	ug/L		98
65) 1,2-Dibromoethane	7.314	107	108267	50.00	ug/L		97
66) 1-Chlorohexane	7.785	91	175461	50.00	ug/L		92
67) Chlorobenzene	7.806	112	363383	50.00	ug/L		89
68) 1,1,1,2-Tetrachloroethane	7.908	131	131724	50.00	ug/L		98
69) Ethylbenzene	7.897	91	604763	50.00	ug/L		98
70) m,p-Xylene	8.020	106	496360	100.00	ug/L		90
71) o-Xylene	8.394	106	241033	50.00	ug/L		93
72) Xylene (Total)	8.020	106	737592m	149.98	ug/L		
73) Styrene	8.421	104	410712	50.00	ug/L		95
74) Bromoform	8.598	173	85091	50.00	ug/L		97

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

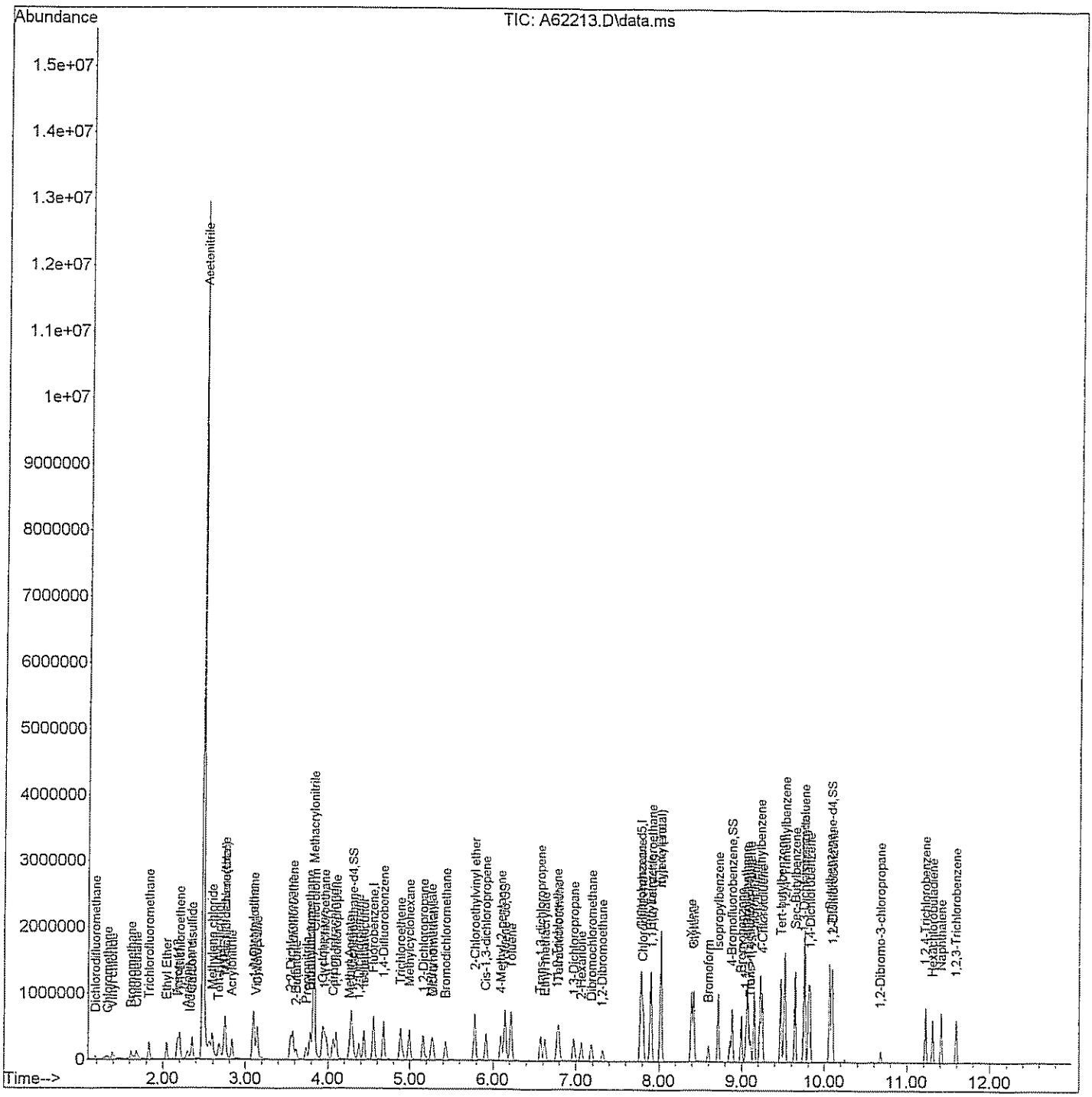
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	521416	50.00 ug/L	97
77) Bromobenzene	8.994	156	142716	50.00 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	142875	50.00 ug/L	98
79) 1,2,3-Trichloropropane	9.085	110	41981	50.00 ug/L	97
80) n-Propylbenzene	9.063	91	719141	50.00 ug/L	98
81) Trans-1,4-dichloro-2-b...	9.106	53	43806	50.00 ug/L #	1
82) 2-Chlorotoluene	9.149	126	154063	50.00 ug/L	86
83) 4-Chlorotoluene	9.250	126	156819	50.00 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	514134	50.00 ug/L	95
85) Tert-butylbenzene	9.470	119	450241	50.00 ug/L	97
87) 1,2,4-Trimethylbenzene	9.518	105	528715	50.00 ug/L	93
88) Sec-Butylbenzene	9.641	105	692528	50.00 ug/L	99
89) 1,3-Dichlorobenzene	9.743	146	296768	50.00 ug/L	98
90) 4-Isopropyltoluene	9.753	119	604752	50.00 ug/L	98
91) 1,4-Dichlorobenzene	9.823	146	300653	50.00 ug/L	98
93) 1,2-Dichlorobenzene	10.101	146	276122	50.00 ug/L	97
94) n-Butylbenzene	10.058	91	560174	50.00 ug/L	95
95) 1,2-Dibromo-3-chloropr...	10.679	75	24817	50.00 ug/L #	78
96) 1,2,4-Trichlorobenzene	11.219	180	167452	50.00 ug/L	99
97) Hexachlorobutadiene	11.305	225	78952	50.00 ug/L	100
98) Naphthalene	11.412	128	442312	50.00 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	145394	50.00 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

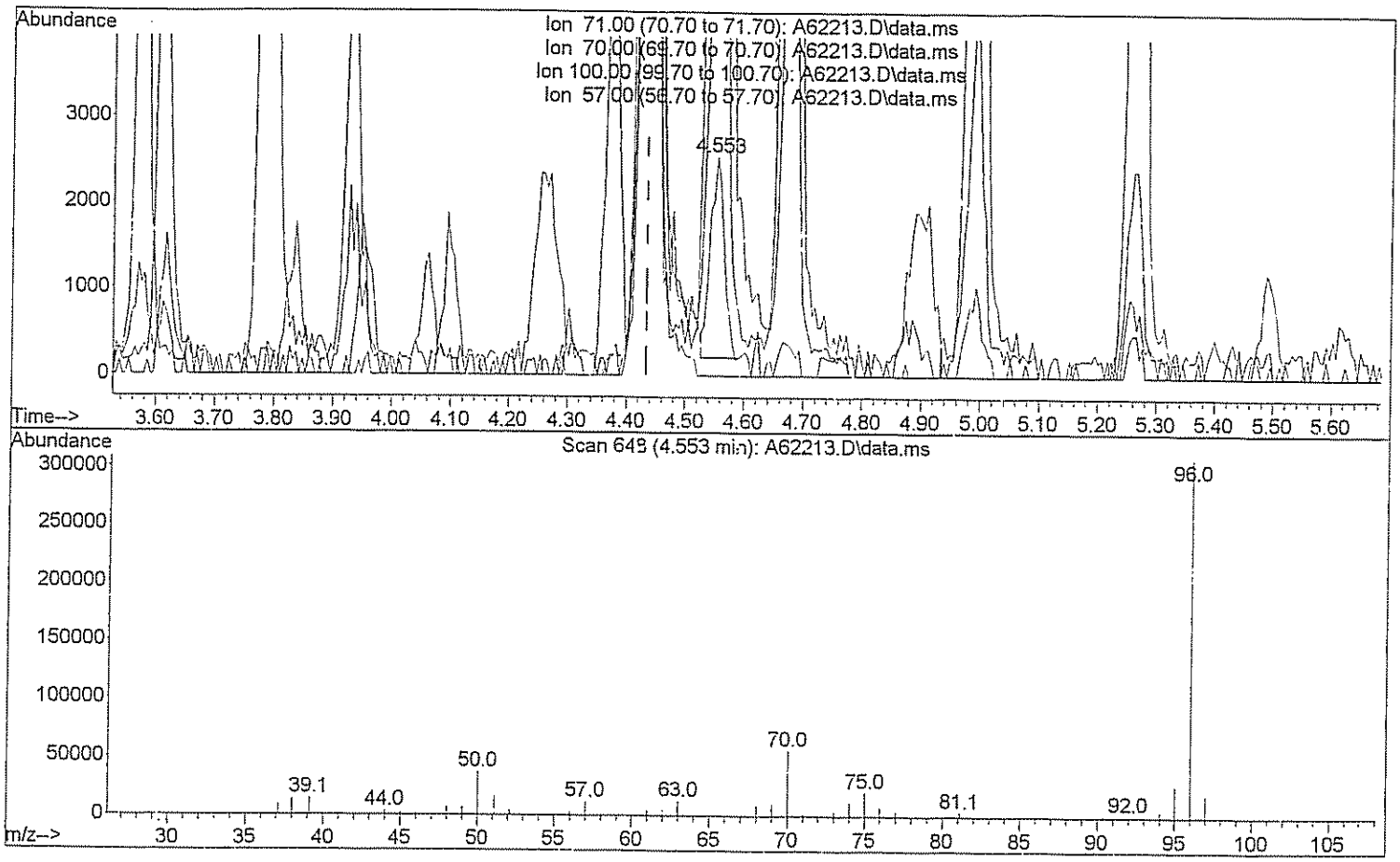
Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.13 ug/L

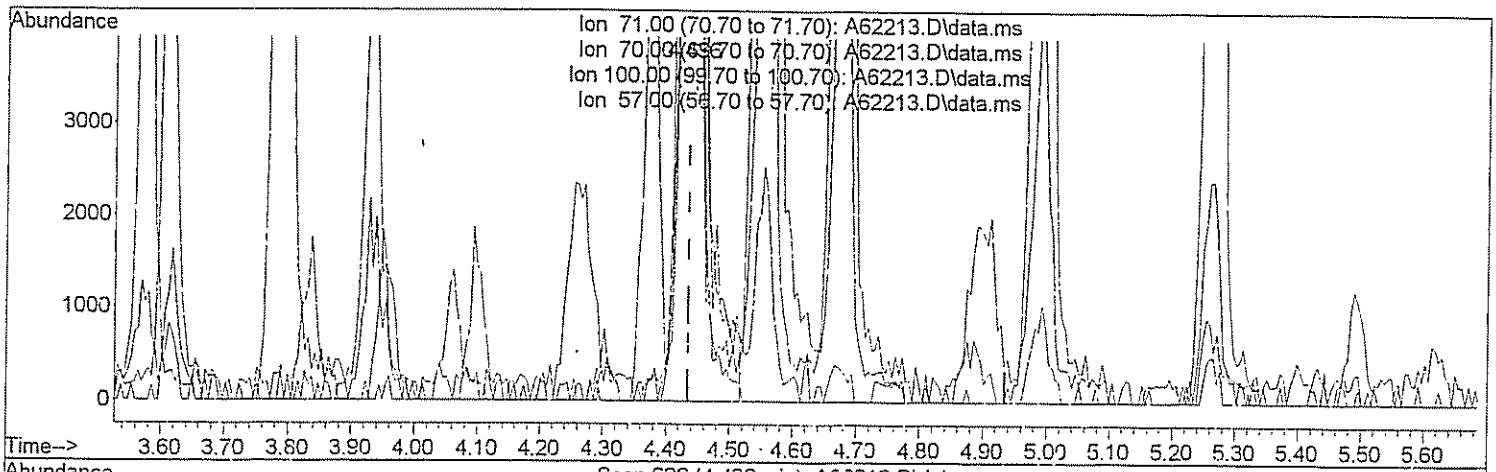
response 3811

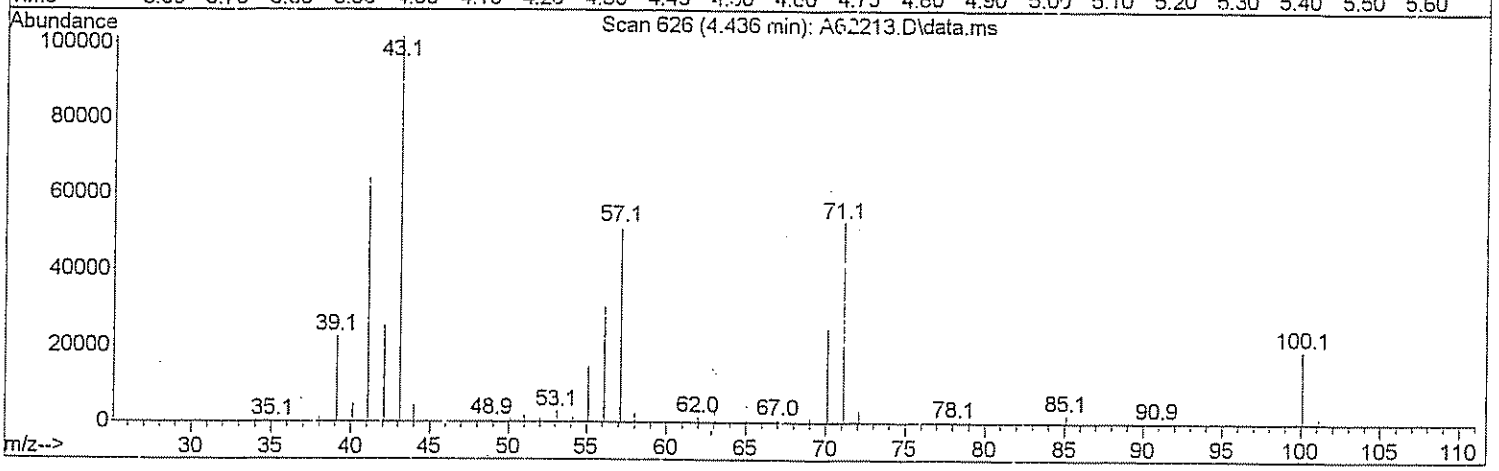
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2353.53#
100.00	62.00	0.00#
57.00	40.00	501.02#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration





TIC: A62213.D\data.ms

(26) n-Heptane (T)

4.436min (0.000) 49.81 ug/L m

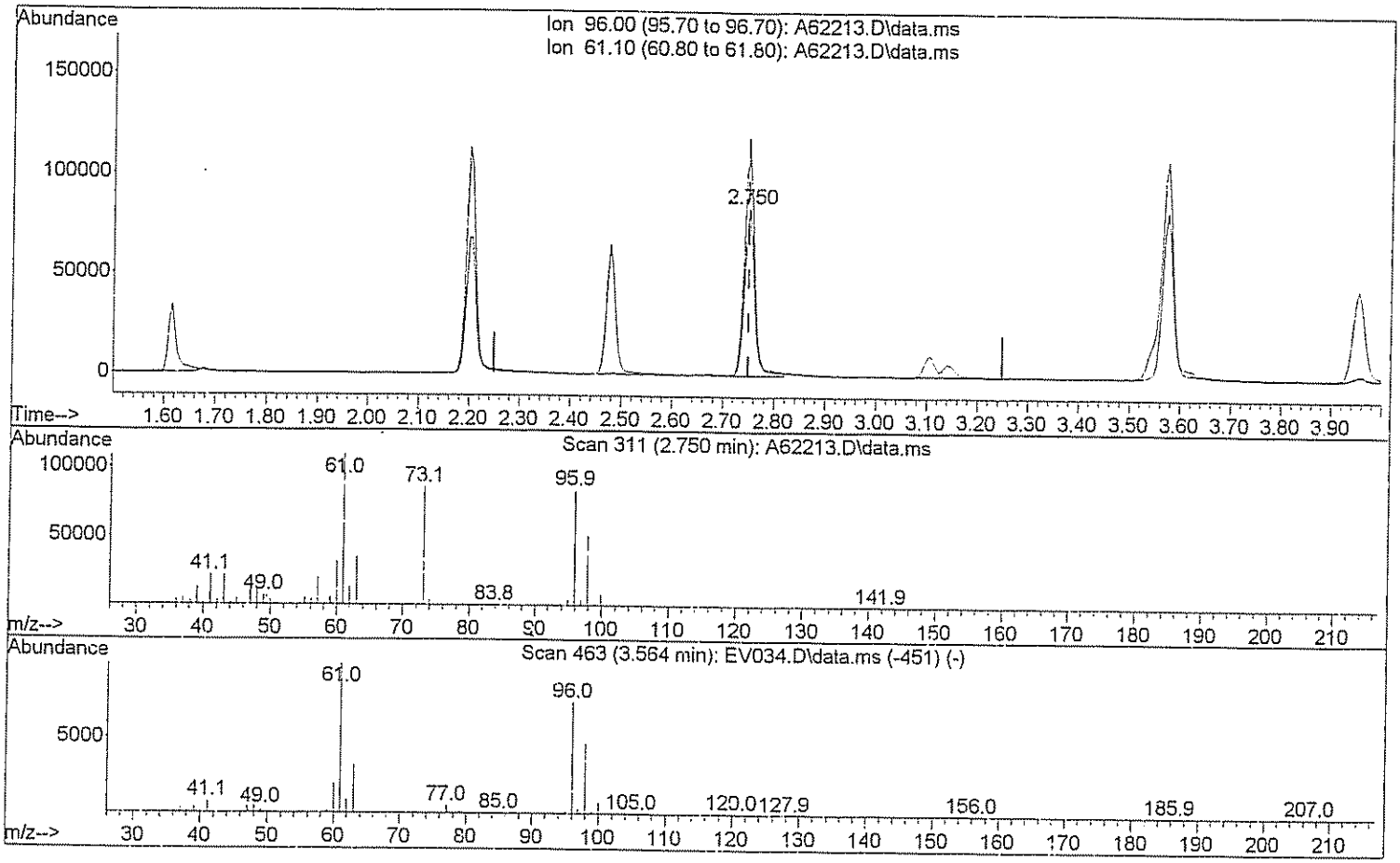
response 89309

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	100.43#
100.00	62.00	0.00#
57.00	40.00	21.38#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (0.000) 45.53 ug/L

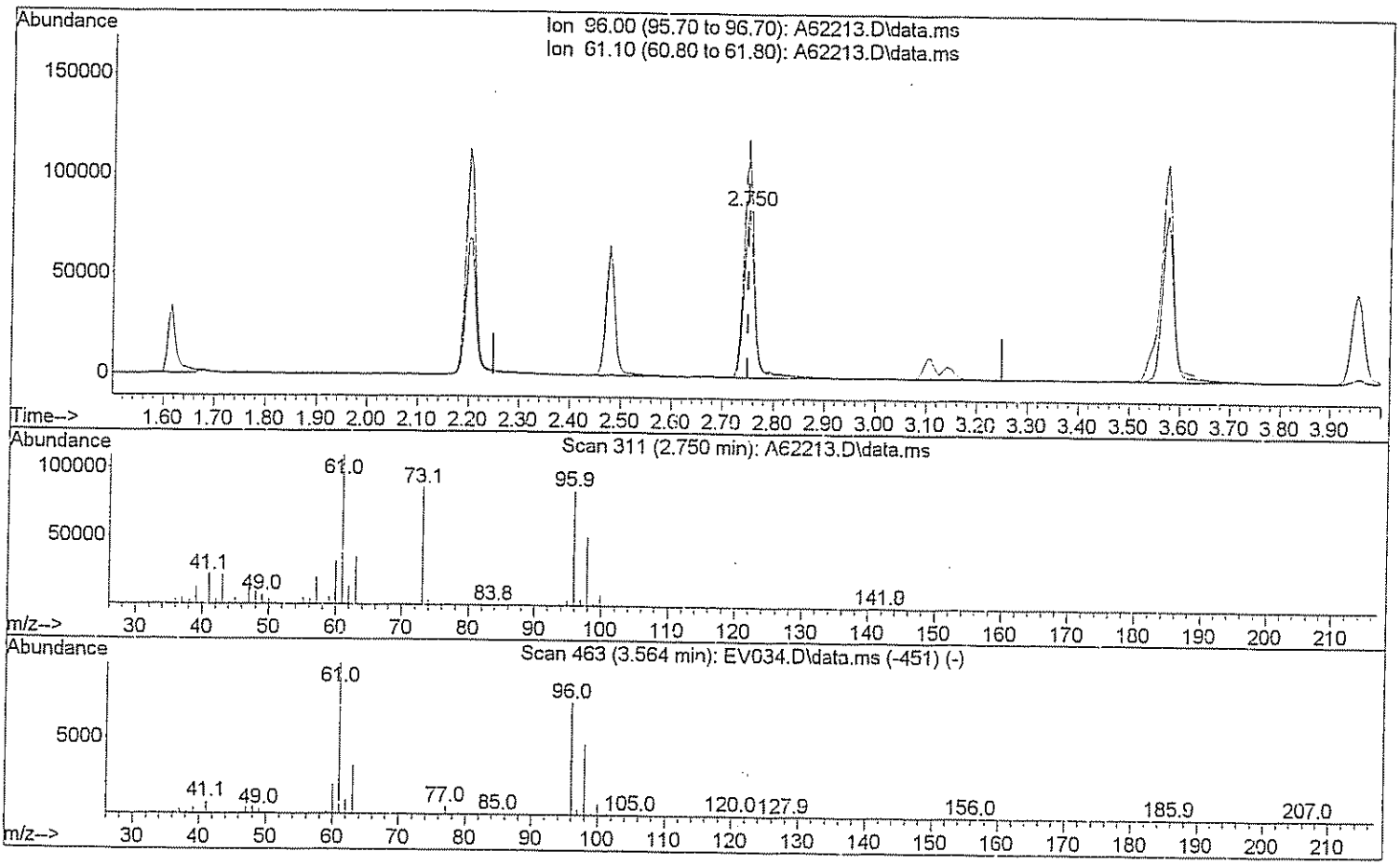
response 114422

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (0.000) 99.75 ug/L m DM 3/16/09

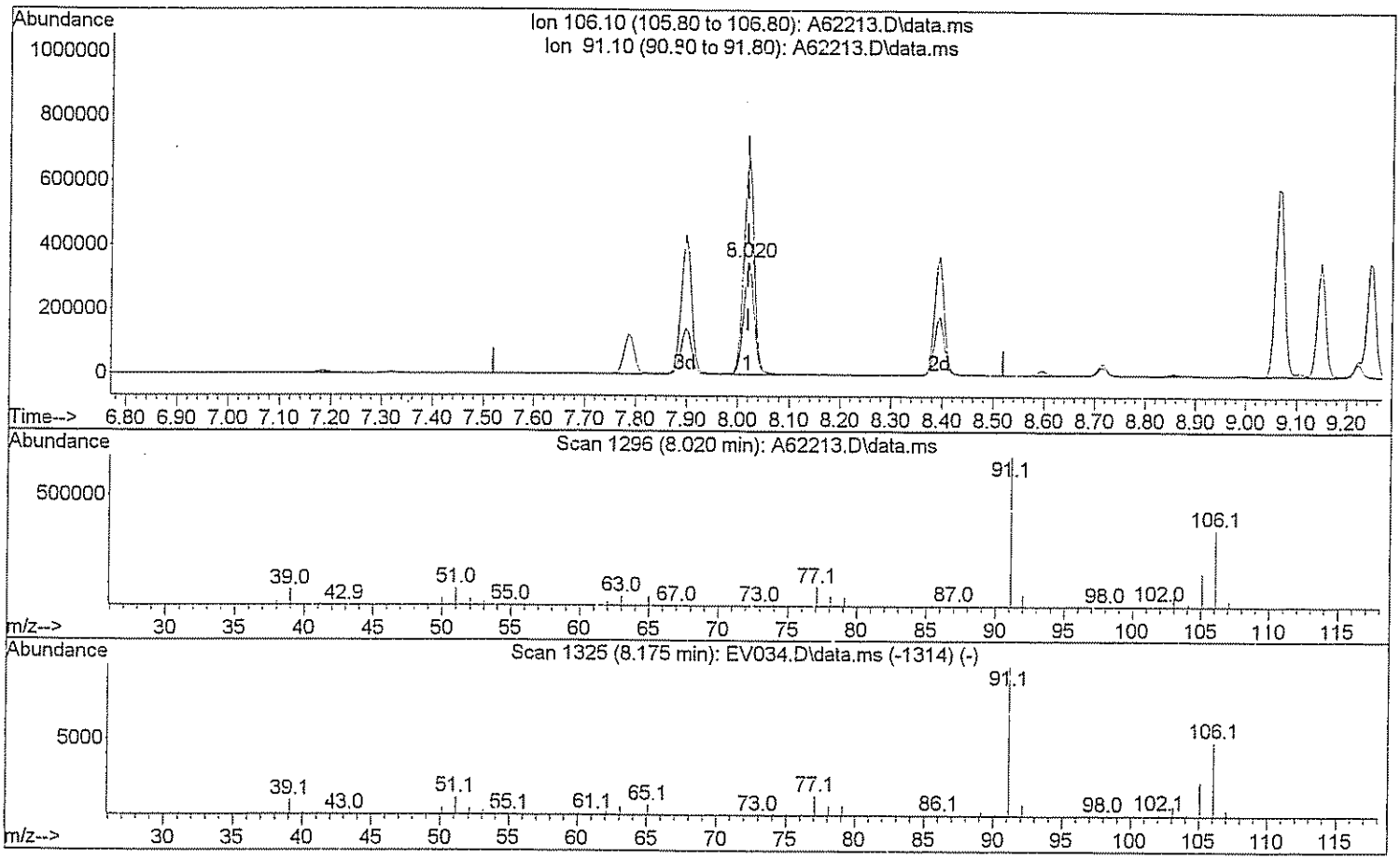
response 250709

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	63.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 100.93 ug/L

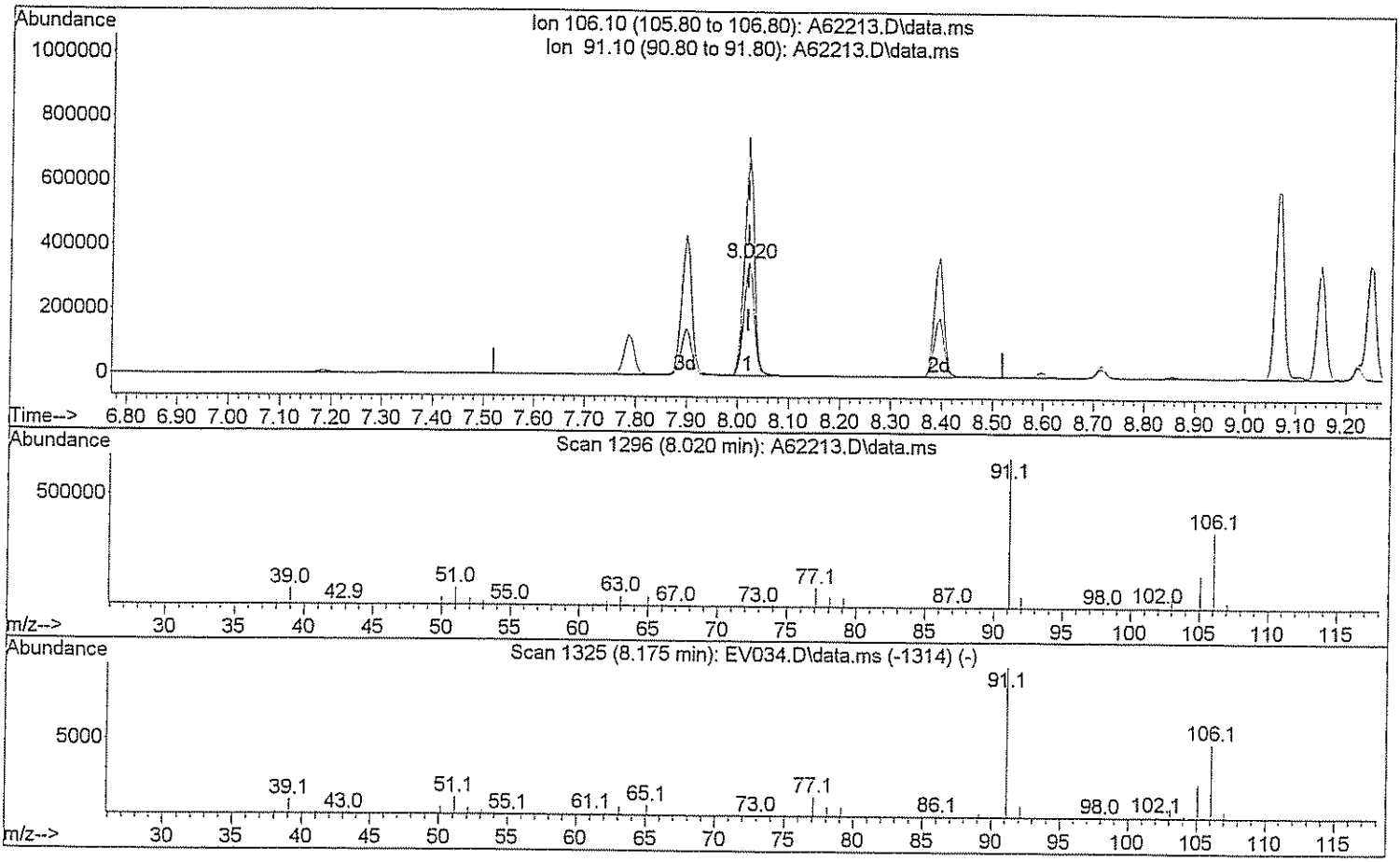
response 496360

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 149.98 ug/L m

3/16/09

response 737592

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.33#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	488113	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	402895	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	382461	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	129184	50.02	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.04%				
54) Toluene-d8	6.142	98	474149	50.80	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 101.60%				
76) 4-Bromofluorobenzene	8.881	95	182324	49.93	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.86%				
92) 1,2-Dichlorobenzene-d4	10.090	152	186080m	52.27	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 104.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	101899	106.98	ug/L		99
3) Chloromethane	1.327	50	155403	109.78	ug/L		99
4) Vinyl chloride	1.392	62	209191	101.65	ug/L		97
5) Bromomethane	1.616	94	111043	145.49	ug/L		87
6) Chloroethane	1.681	64	137679	99.05	ug/L		93
7) Trichlorofluoromethane	1.825	101	300088	106.02	ug/L		98
8) Ethyl Ether	2.044	59	183503	99.21	ug/L		96
9) Freon 113	2.173	101	180697	112.15	ug/L		89
10) Acrolein	2.189	56	170559	487.02	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	410388	1627.41	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	188294	102.49	ug/L		90
13) Iodomethane	2.328	142	241226	271.45	ug/L		98
14) Acetonitrile	2.478	40	1358379	1123.82	ug/L	#	1
15) Methylene chloride	2.590	84	229545	104.74	ug/L		100
16) Trans-1,2-dichloroethene	2.750	96	224781	104.14	ug/L		88
17) Isopropyl ether	3.093	45	872545	102.27	ug/L		100
18) 1,1-Dichloroethane	3.109	63	420716	104.83	ug/L		98
19) Acetone	2.301	43	164150	185.35	ug/L		96
20) Methyl Acetate	4.264	43	66527	26.61	ug/L	#	100
21) MTBE	2.740	73	589661	99.10	ug/L		100
22) Carbon disulfide	2.349	76	627594	105.31	ug/L		100
24) Acrylonitrile	2.836	53	303172	464.89	ug/L		100
25) Chloroprene	3.146	53	388959	112.65	ug/L		91
26) n-Heptane	4.436	71	179679m	106.65	ug/L		
27) 2,2-Dichloropropane	3.553	77	331997	101.97	ug/L	#	74
28) Cis-1,2-dichloroethene	3.580	96	256374	103.77	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	484745m	204.99	ug/L		
30) Propionitrile	3.740	54	307367	899.20	ug/L		100
31) Bromochloromethane	3.783	128	119161	102.97	ug/L		91
32) Tetrahydrofuran	3.794	72	47686	88.07	ug/L	#	1
33) Chloroform	3.842	83	435779	111.90	ug/L		97
34) Cyclohexane	3.933	56	385205	110.11	ug/L		94
35) 1,1,1-Trichloroethane	3.960	97	334582	102.84	ug/L		98
36) Carbon tetrachloride	4.061	117	302357	106.77	ug/L		99
37) Methacrylonitrile	3.831	41	1721571	1007.87	ug/L	#	20
38) Methylcyclohexane	4.992	83	363723	111.77	ug/L		93
39) Isobutyl Alcohol	4.436	43	336613	2171.62	ug/L		89
42) 2-Butanone	3.617	43	268048	179.66	ug/L		98
43) 1,1-Dichloropropene	4.099	75	303893	101.89	ug/L		98
44) Vinyl Acetate	3.136	43	317561	98.31	ug/L		100
45) Benzene	4.281	78	931840	103.46	ug/L		100
46) 1,2-Dichloroethane	4.377	62	290421m	100.33	ug/L		
47) Trichloroethene	4.885	95	232664	103.80	ug/L		92
48) 1,2-Dichloropropane	5.163	63	245860	102.29	ug/L		97
49) Methyl methacrylate	5.265	69	148916	92.01	ug/L		96
50) Dibromomethane	5.281	93	138697	97.93	ug/L		98
51) Bromodichloromethane	5.431	83	302833	99.87	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	184535	138.86	ug/L		97
53) Cis-1,3-dichloropropene	5.918	75	379910	100.47	ug/L		98
55) Toluene	6.217	92	614952	103.11	ug/L		97
56) Trans-1,3-dichloropropene	6.570	75	335781	96.32	ug/L		98
57) Ethyl methacrylate	6.624	69	288818	98.31	ug/L		96
58) 1,1,2-Trichloroethane	6.773	83	175100	98.66	ug/L		97
60) 4-Methyl-2-pentanone	6.099	43	441380	179.51	ug/L		99
61) 2-Hexanone	7.068	43	327869	180.31	ug/L		99
62) Tetrachloroethene	6.795	166	248012	106.43	ug/L		95
63) 1,3-Dichloropropane	6.977	76	337277	97.69	ug/L		92
64) Dibromochloromethane	7.185	129	247971	100.65	ug/L		99
65) 1,2-Dibromoethane	7.319	107	203221	98.47	ug/L		98
66) 1-Chlorohexane	7.790	91	337355	100.86	ug/L		92
67) Chlorobenzene	7.811	112	714834	103.20	ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.908	131	261629	104.19	ug/L		96
69) Ethylbenzene	7.902	91	1209808	104.94	ug/L		99
70) m,p-Xylene	8.025	106	991494	209.58	ug/L		90
71) o-Xylene	8.394	106	476964	103.81	ug/L		93
72) Xylene (Total)	8.025	106	1471853m	314.04	ug/L		
73) Styrene	8.427	104	812237	103.74	ug/L		95
74) Bromoform	8.598	173	152829	94.22	ug/L		100

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

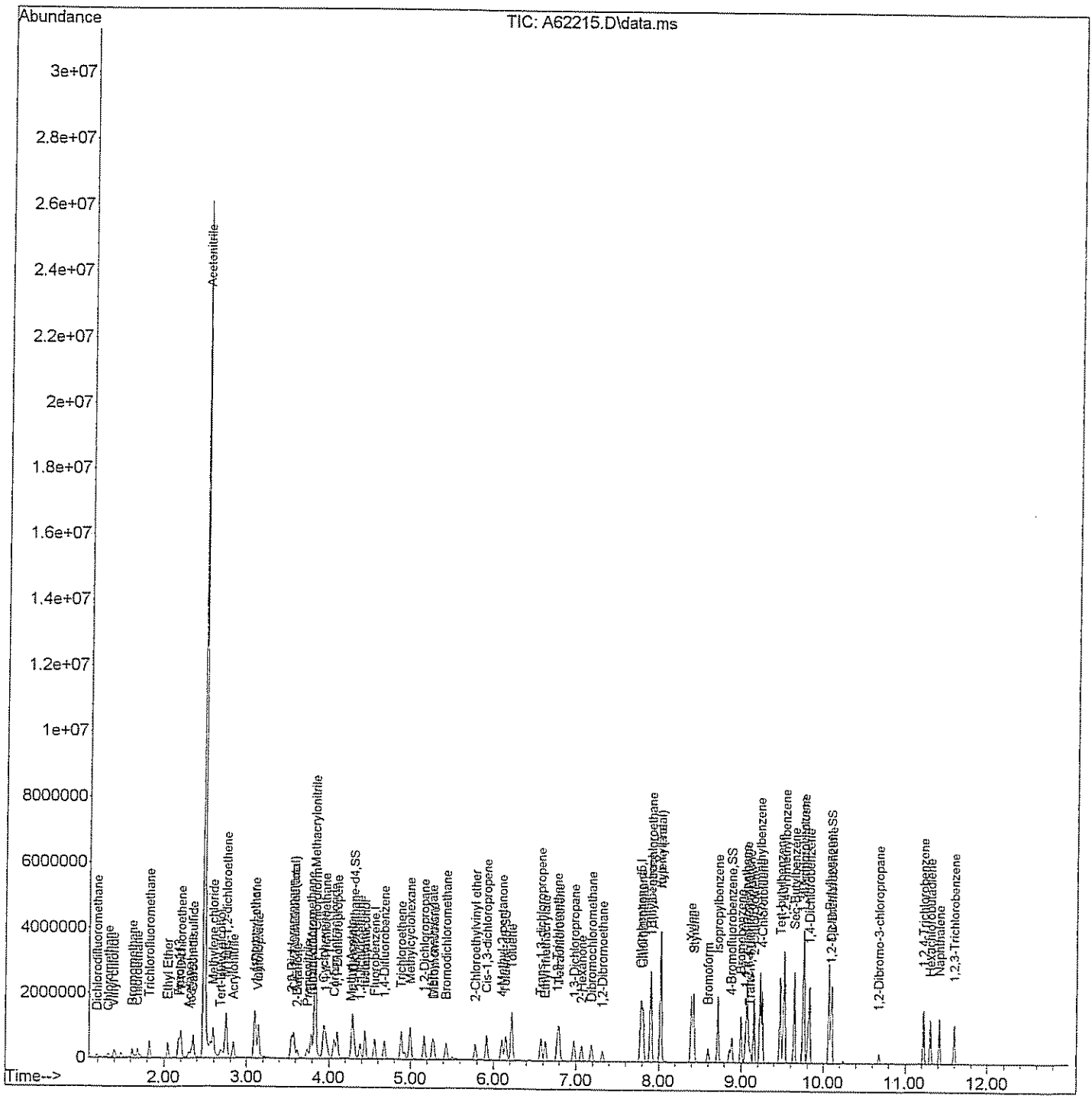
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	1046010	105.24 ug/L	99
77) Bromobenzene	8.994	156	282960	104.01 ug/L	99
78) 1,1,2,2-Tetrachloroethane	9.052	83	259312	95.21 ug/L	100
79) 1,2,3-Trichloropropane	9.085	110	75218	93.99 ug/L	99
80) n-Propylbenzene	9.068	91	1417344	103.39 ug/L	98
81) Trans-1,4-dichloro-2-b...	9.106	53	56785	68.00 ug/L #	23
82) 2-Chlorotoluene	9.154	126	296723	101.04 ug/L	89
83) 4-Chlorotoluene	9.250	126	310968	104.02 ug/L	93
84) 1,3,5-Trimethylbenzene	9.224	105	1047309	106.86 ug/L	95
85) Tert-butylbenzene	9.470	119	914746	106.58 ug/L	96
87) 1,2,4-Trimethylbenzene	9.523	105	1084517	107.61 ug/L	94
88) Sec-Butylbenzene	9.641	105	1404375	106.38 ug/L	99
89) 1,3-Dichlorobenzene	9.748	146	614964	108.71 ug/L	99
90) 4-Isopropyltoluene	9.759	119	1255344	108.89 ug/L	98
91) 1,4-Dichlorobenzene	9.823	146	612216	106.82 ug/L	98
93) 1,2-Dichlorobenzene	10.101	146	578388	109.88 ug/L	99
94) n-Butylbenzene	10.064	91	1147680	107.48 ug/L	96
95) 1,2-Dibromo-3-chloropr...	10.679	75	43888	92.77 ug/L #	78
96) 1,2,4-Trichlorobenzene	11.224	180	346038	108.41 ug/L	98
97) Hexachlorobutadiene	11.305	225	164609	109.37 ug/L	98
98) Naphthalene	11.412	128	790325	93.73 ug/L	100
99) 1,2,3-Trichlorobenzene	11.599	180	284128	102.51 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

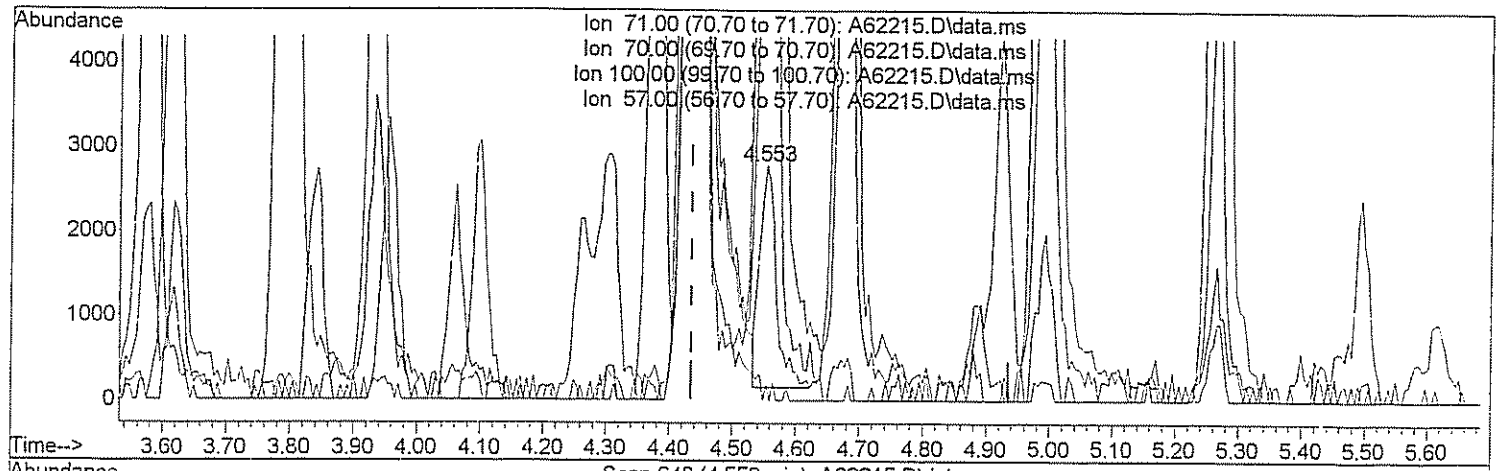
Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

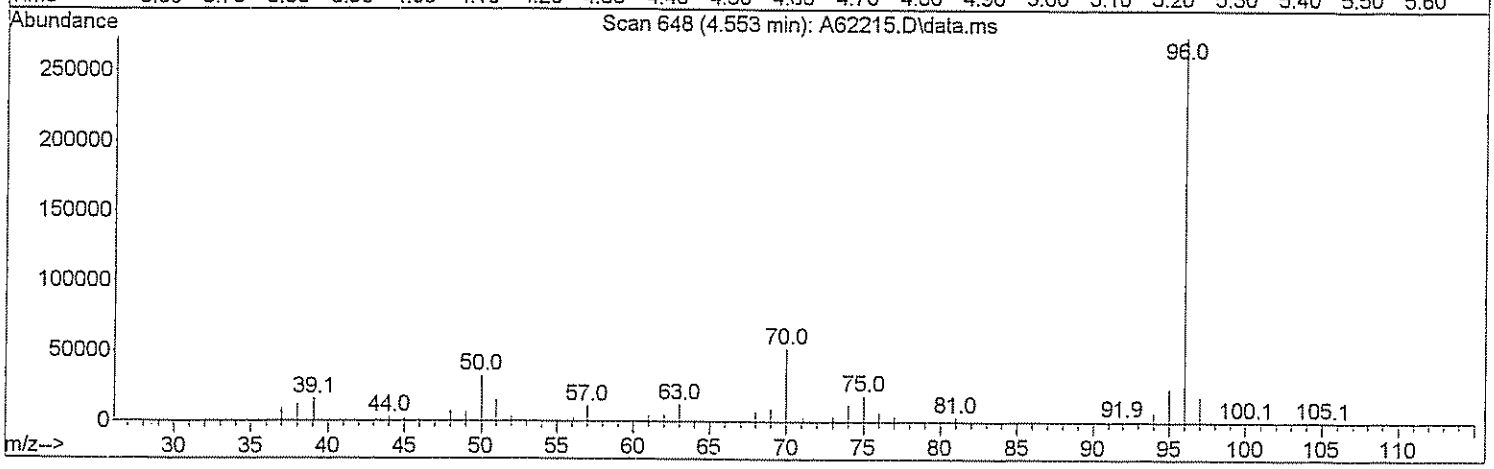


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration





TIC: A62215.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.89 ug/L

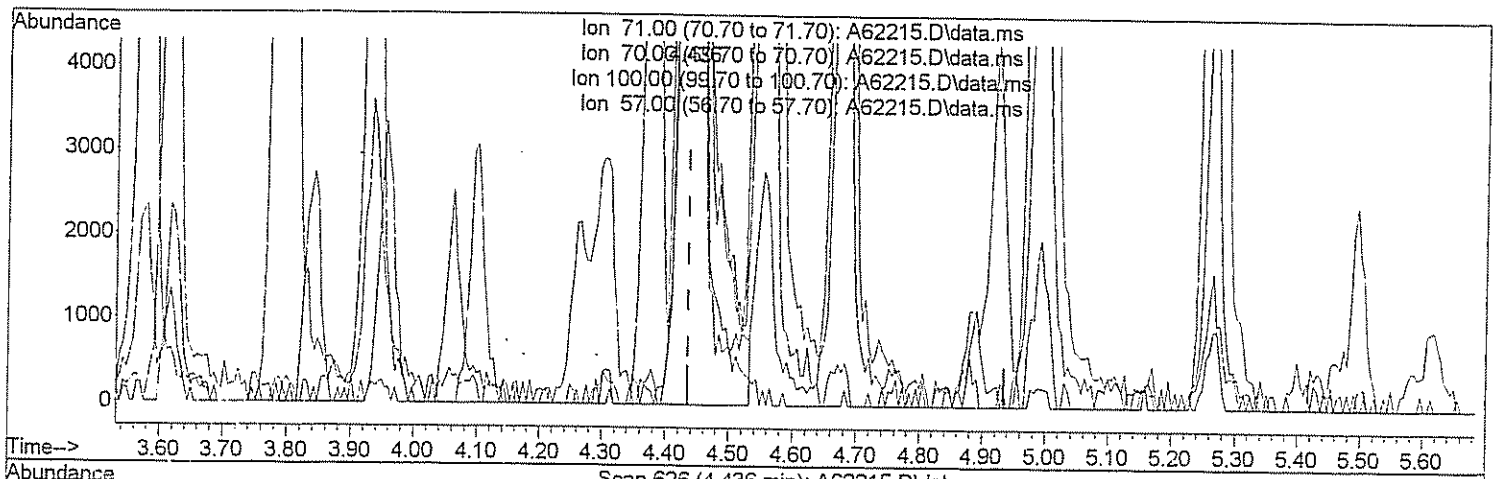
response 4871

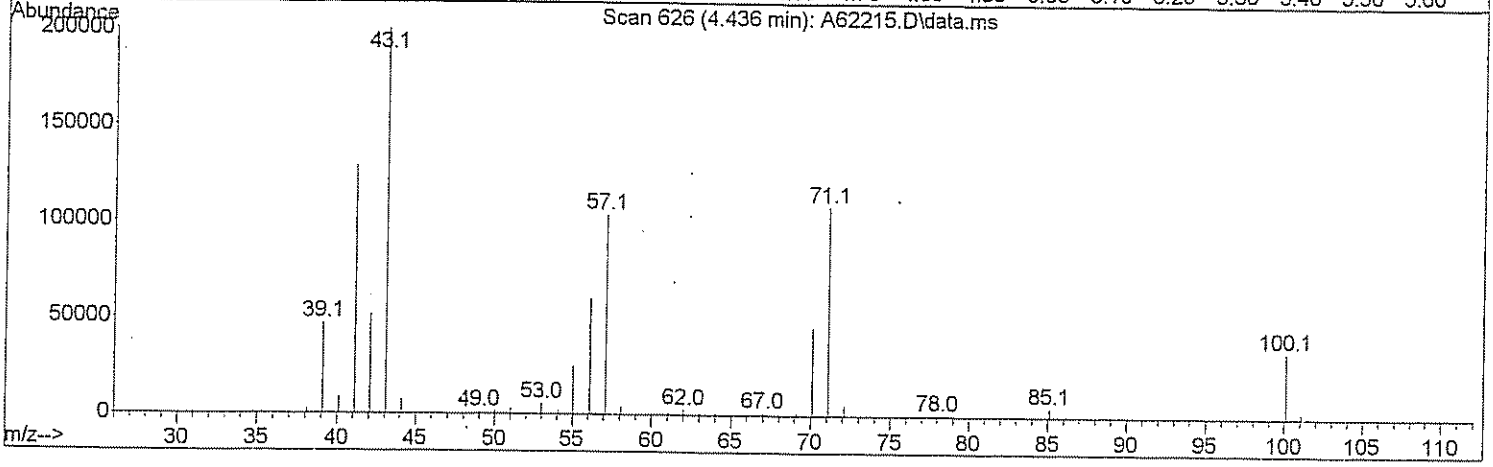
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1781.01#
100.00	62.00	0.00#
57.00	40.00	395.26#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration





TIC: A62215.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 106.65 ug/L m Sm 3/16/09

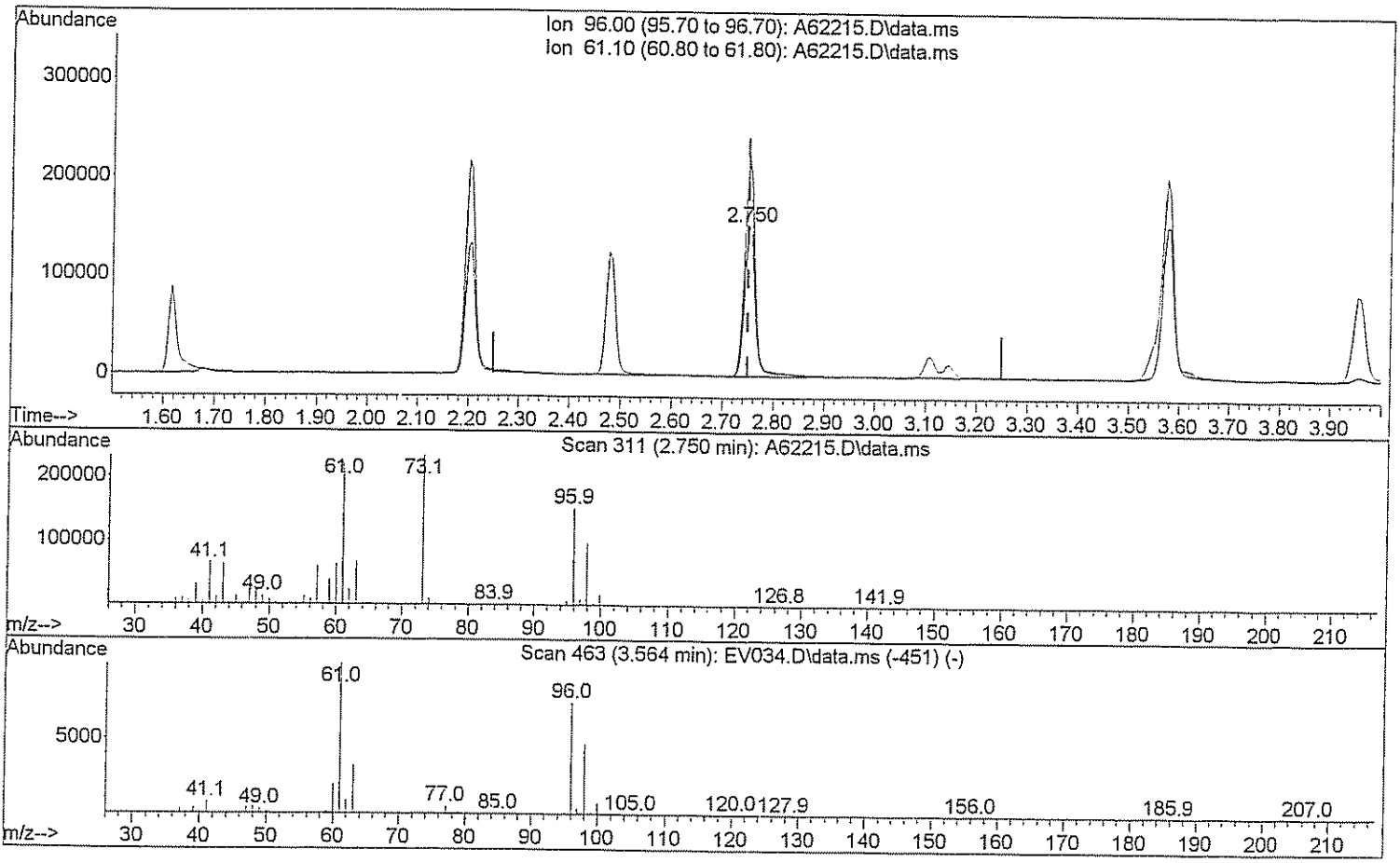
response 179679

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	48.28#
100.00	62.00	0.00#
57.00	40.00	10.72#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (+0.000) 95.05 ug/L

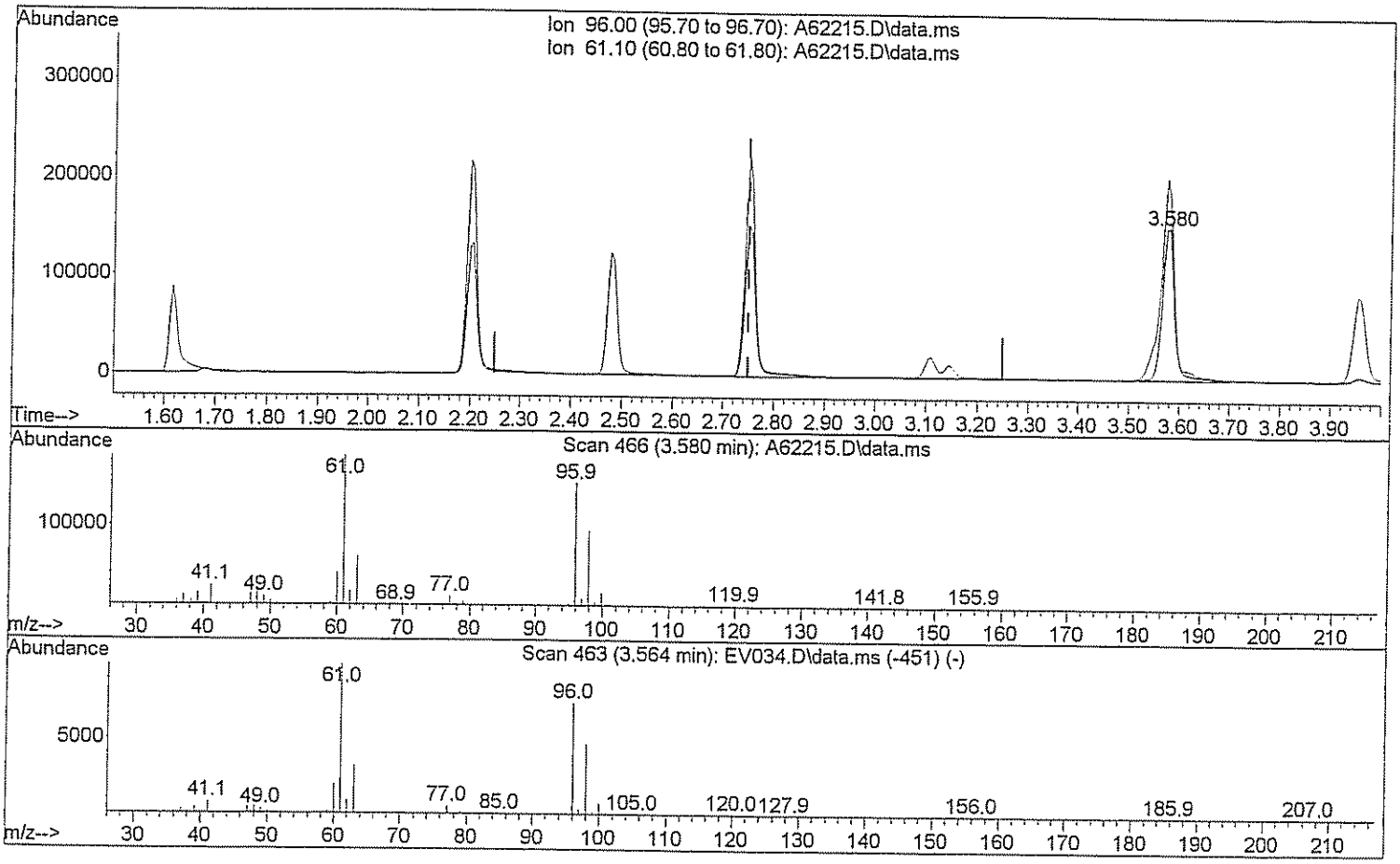
response 224781

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.829) 204.99 ug/L m DW3/16/09

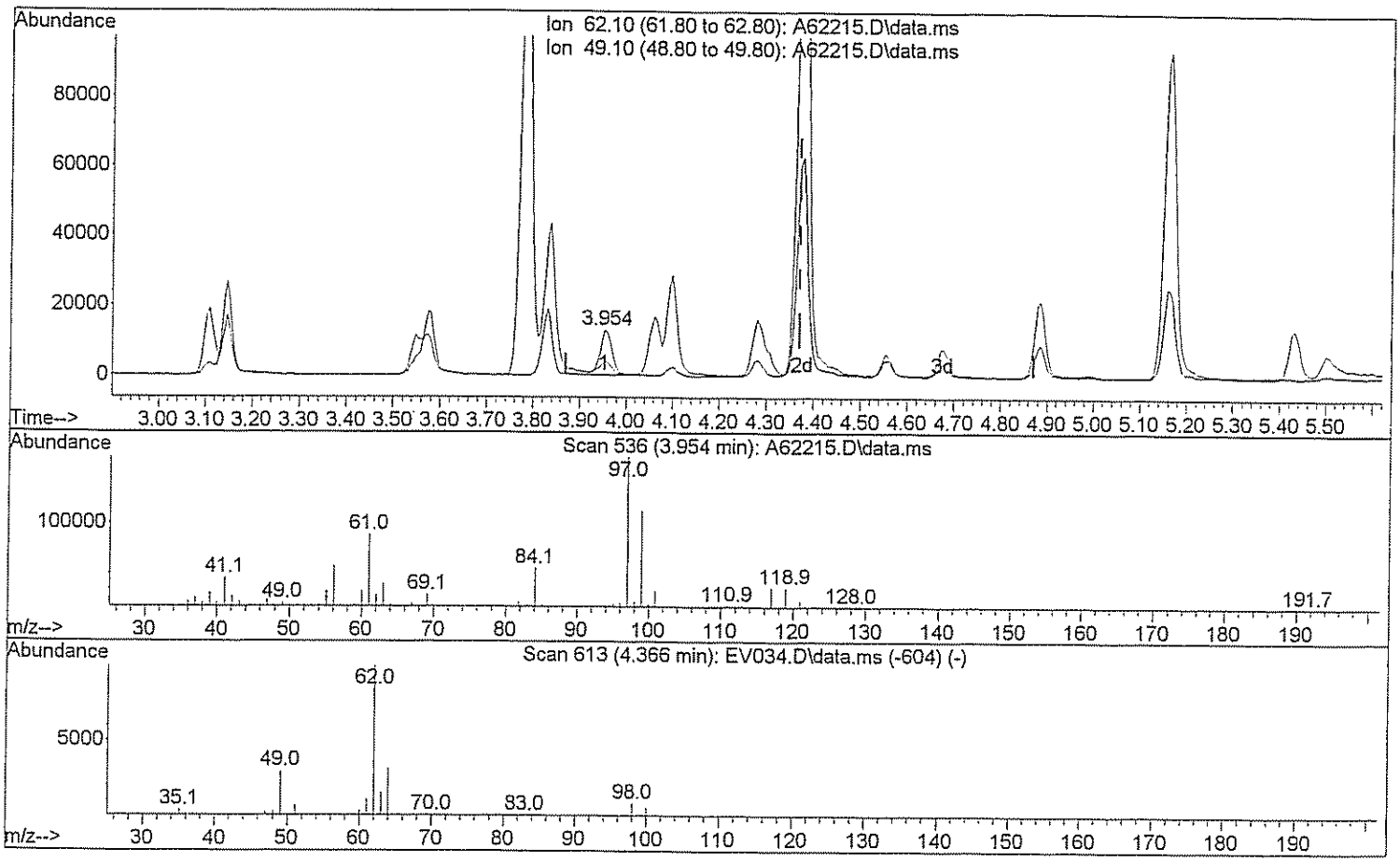
response 484745

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	64.83#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(46) 1,2-Dichloroethane

3.954min (-0.417) 7.81 ug/L

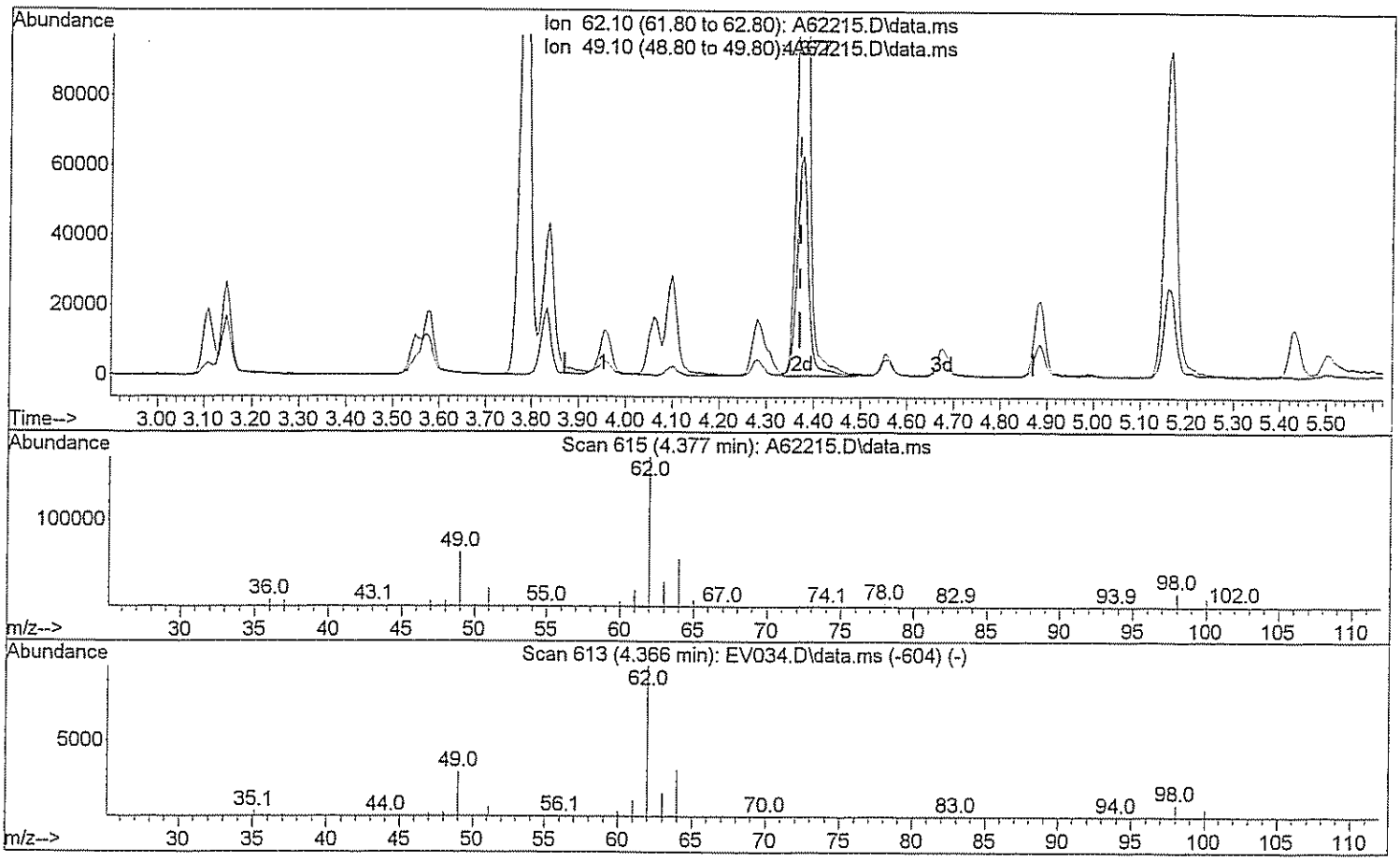
response 22614

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	33.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(46) 1,2-Dichloroethane

4.377min (+0.005) 100.33 ug/L m DM 3/16/09

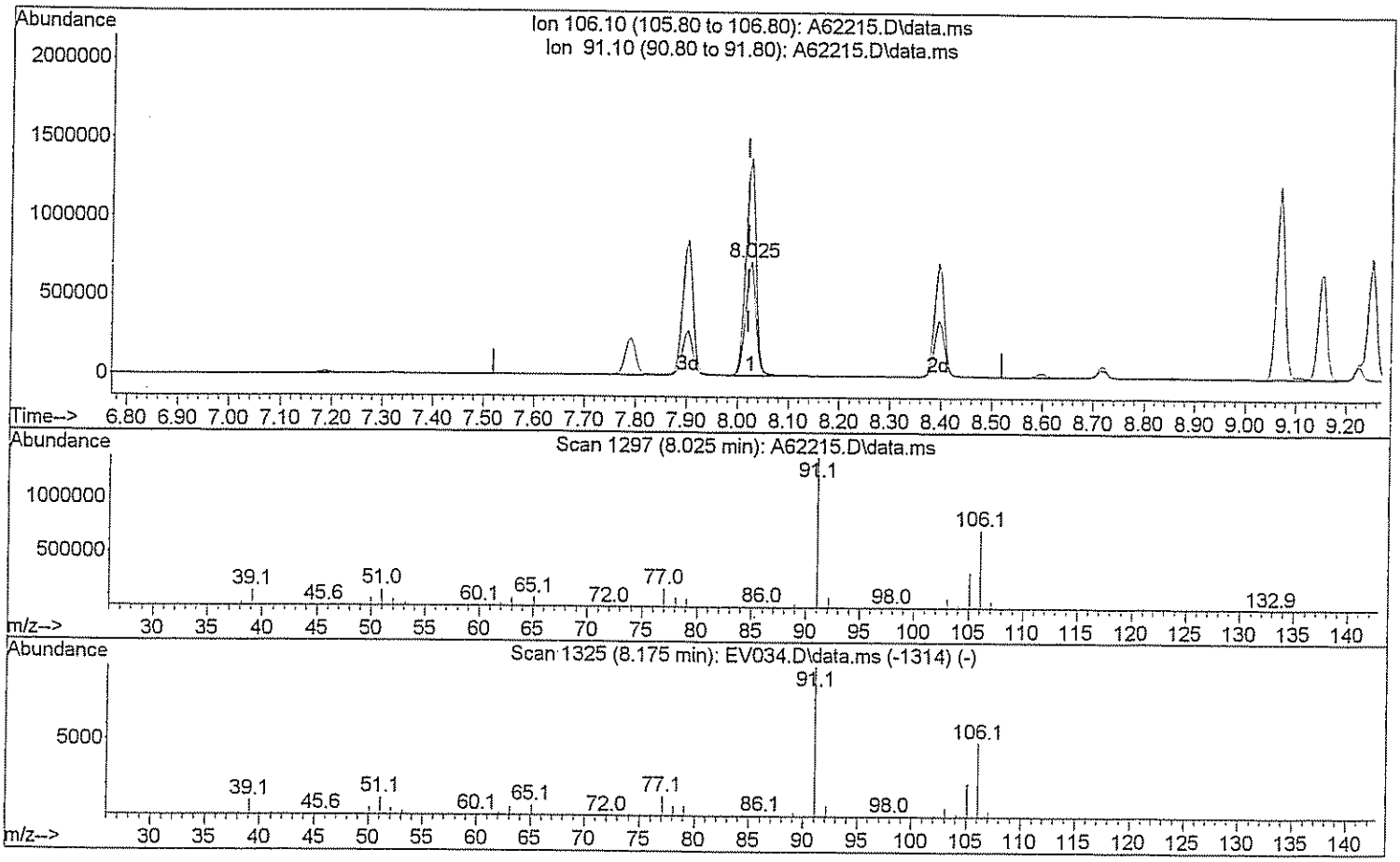
response 290421

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(72) Xylene (Total)

8.025min (+0.005) 211.55 ug/L

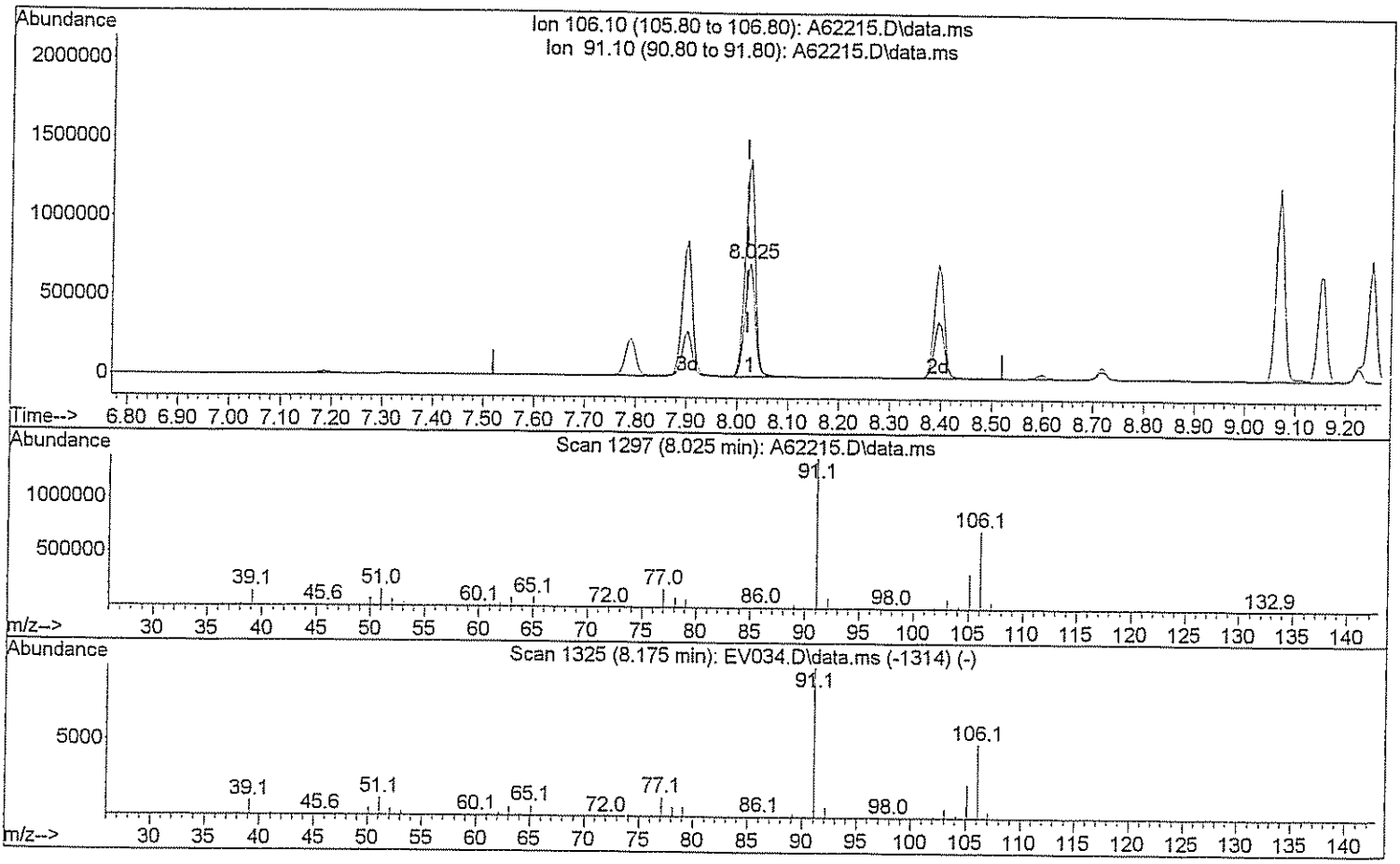
response 991494

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(72) Xylene (Total)

8.025min (+0.005) 314.04 ug/L m AM 3/16/09

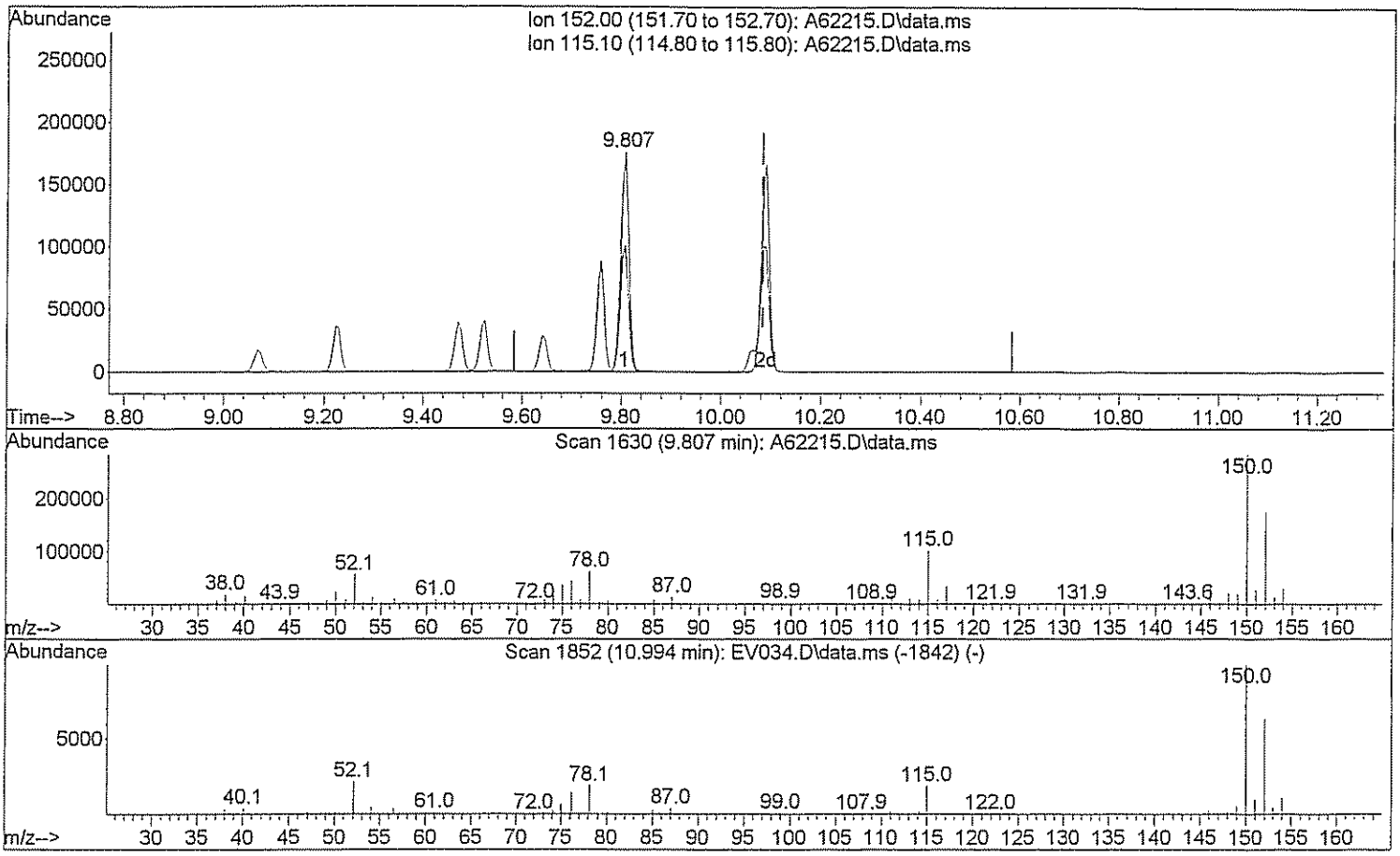
response 1471853

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	130.22#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.278) 55.06 ug/L

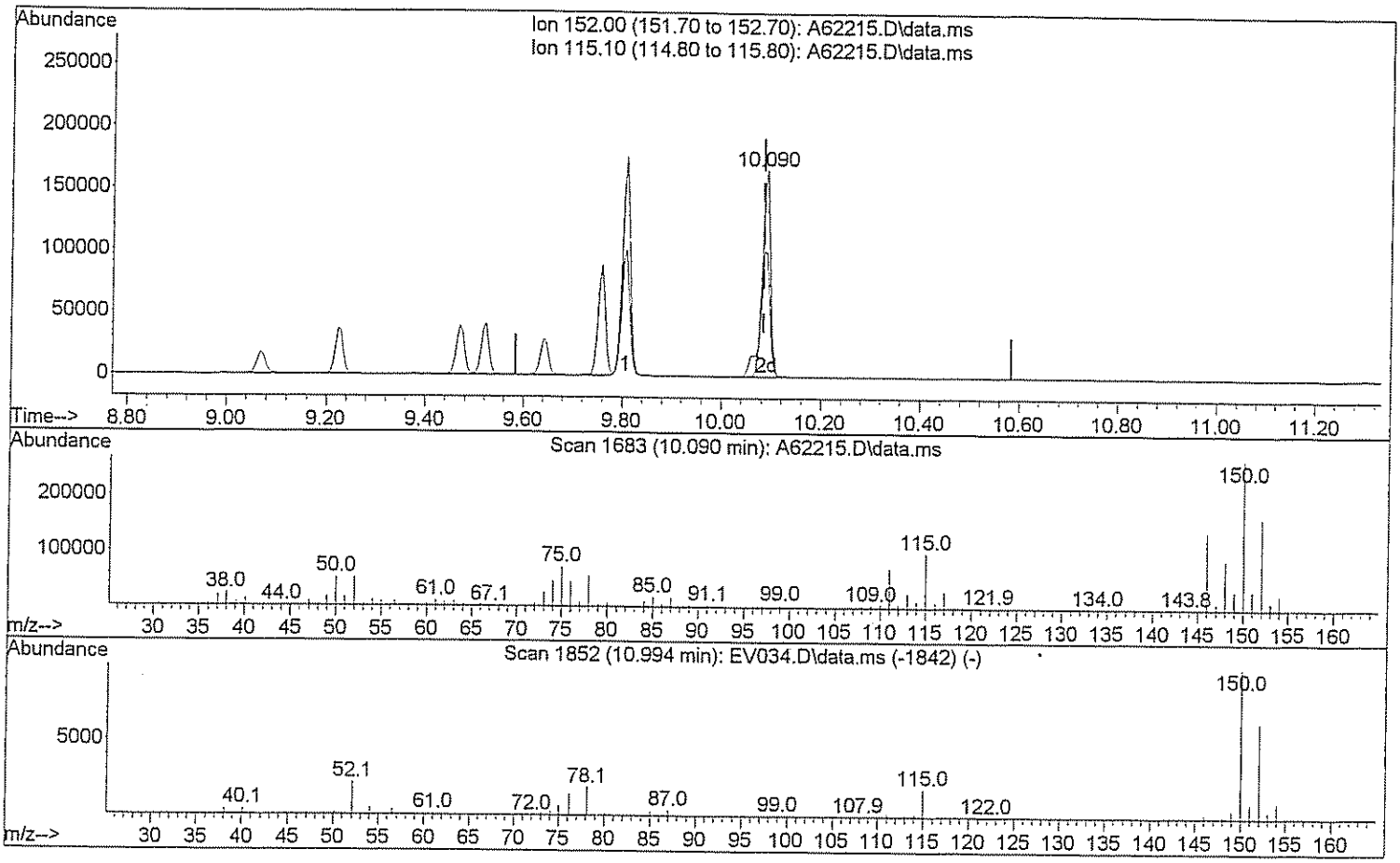
response 196008

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	58.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.005) 52.27 ug/L m

response 186080

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	61.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	451792	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	368065	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.785	117	369201	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	127289	53.24	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.48%				
54) Toluene-d8	6.148	98	448303	52.16	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.32%				
76) 4-Bromofluorobenzene	8.887	95	171713	48.75	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.50%				
92) 1,2-Dichlorobenzene-d4	10.090	152	179334m	51.02	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.04%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	163283	185.20	ug/L		99
3) Chloromethane	1.328	50	359762	261.78	ug/L		94
4) Vinyl chloride	1.392	62	387193	201.61	ug/L		97
5) Bromomethane	1.611	94	202436	233.46	ug/L		92
6) Chloroethane	1.675	64	284270	222.01	ug/L		99
7) Trichlorofluoromethane	1.809	101	811281	300.62	ug/L		99
8) Ethyl Ether	2.044	59	371482	217.85	ug/L		98
9) Freon 113	2.162	101	297997	199.83	ug/L		93
10) Acrolein	2.194	56	364103	1138.03	ug/L	#	65
11) Tert-Butyl alcohol	2.702	59	300740	1420.82	ug/L	#	47
12) 1,1-Dichloroethene	2.194	96	365174	212.11	ug/L		90
13) Iodomethane	2.323	142	290902	190.43	ug/L		96
14) Acetonitrile	2.472	40	2492691	2098.16	ug/L	#	1
15) Methylene chloride	2.585	84	439869	211.83	ug/L		98
16) Trans-1,2-dichloroethene	2.745	96	440274	215.90	ug/L		88
17) Isopropyl ether	3.098	45	1680957	210.47	ug/L		97
18) 1,1-Dichloroethane	3.104	63	800890	210.51	ug/L		100
19) Acetone	2.312	43	312363	395.54	ug/L		97
20) Methyl Acetate	4.270	43	87097	59.46	ug/L	#	100
21) MTBE	2.745	73	1194298	217.83	ug/L		100
22) Carbon disulfide	2.339	76	1152952	203.62	ug/L		100
24) Acrylonitrile	2.836	53	640901	1100.42	ug/L		99
25) Chloroprene	3.141	53	692315	203.74	ug/L		91
26) n-Heptane	4.436	71	299522m	185.89	ug/L		
27) 2,2-Dichloropropane	3.548	77	610873	200.73	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	462197	198.38	ug/L		90

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.745	96	940669m	424.47	ug/L		
30) Propionitrile	3.751	54	646001	2150.18	ug/L		98
31) Bromochloromethane	3.783	128	232724	214.09	ug/L		93
32) Tetrahydrofuran	3.794	72	106842	226.71	ug/L	#	1
33) Chloroform	3.842	83	899112	235.43	ug/L		98
34) Cyclohexane	3.933	56	656554	193.01	ug/L		93
35) 1,1,1-Trichloroethane	3.960	97	656121	214.83	ug/L		99
36) Carbon tetrachloride	4.061	117	564740	208.40	ug/L		100
37) Methacrylonitrile	3.842	41	3847918	2424.27	ug/L	#	26
38) Methylcyclohexane	4.992	83	574234	180.05	ug/L		99
39) Isobutyl Alcohol	4.436	43	542821	3783.48	ug/L		91
42) 2-Butanone	3.623	43	524768	405.64	ug/L		100
43) 1,1-Dichloropropene	4.099	75	560845	203.91	ug/L		98
44) Vinyl Acetate	3.136	43	568872	194.42	ug/L		97
45) Benzene	4.281	78	1755663	209.75	ug/L		100
46) 1,2-Dichloroethane	4.377	62	553129	208.82	ug/L	#	86
47) Trichloroethene	4.885	95	424939	203.65	ug/L		92
48) 1,2-Dichloropropane	5.163	63	448805	202.08	ug/L		97
49) Methyl methacrylate	5.270	69	297322	209.45	ug/L		89
50) Dibromomethane	5.281	93	270802	211.48	ug/L		98
51) Bromodichloromethane	5.431	83	566453	204.62	ug/L		100
52) 2-Chloroethylvinyl ether	5.784	63	624995	764.27	ug/L		98
53) Cis-1,3-dichloropropene	5.918	75	722742	208.73	ug/L		99
55) Toluene	6.217	92	1188416	214.78	ug/L		98
56) Trans-1,3-dichloropropene	6.576	75	669322	214.11	ug/L		97
57) Ethyl methacrylate	6.629	69	567116	213.10	ug/L		95
58) 1,1,2-Trichloroethane	6.779	83	344109	213.67	ug/L		97
60) 4-Methyl-2-pentanone	6.105	43	884809	392.91	ug/L		97
61) 2-Hexanone	7.073	43	650280	389.64	ug/L		98
62) Tetrachloroethene	6.795	166	489859	210.98	ug/L		96
63) 1,3-Dichloropropane	6.977	76	661242	200.72	ug/L		92
64) Dibromochloromethane	7.185	129	493255	206.73	ug/L		98
65) 1,2-Dibromoethane	7.319	107	399950	202.30	ug/L		98
66) 1-Chlorohexane	7.790	91	644735	198.83	ug/L		92
67) Chlorobenzene	7.811	112	1366383	201.13	ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.913	131	522187	211.01	ug/L		99
69) Ethylbenzene	7.902	91	2372752	208.07	ug/L		99
70) m,p-Xylene	8.025	106	2011769	430.21	ug/L		92
71) o-Xylene	8.400	106	914944	202.43	ug/L		95
72) Xylene (Total)	8.025	106	2931434m	633.11	ug/L		
73) Styrene	8.427	104	1565653	203.35	ug/L		95
74) Bromoform	8.603	173	308929	203.17	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

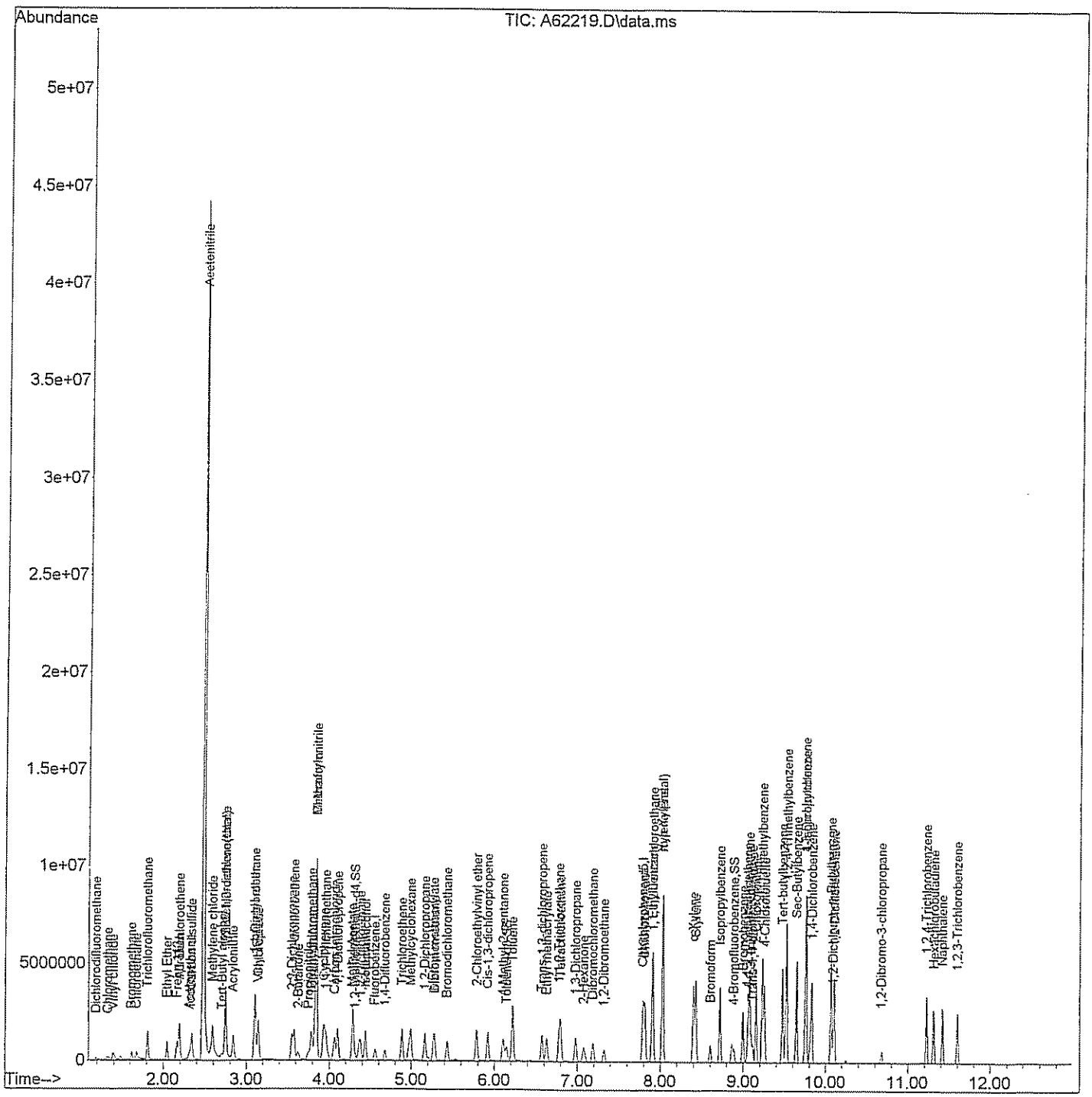
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
75) Isopropylbenzene	8.721	105	1988139	201.92 ug/L		99
77) Bromobenzene	8.999	156	546933	204.17 ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.053	83	512859	199.85 ug/L		99
79) 1,2,3-Trichloropropane	9.090	110	149522	199.55 ug/L		98
80) n-Propylbenzene	9.069	91	2717913	201.96 ug/L		99
81) Trans-1,4-dichloro-2-b...	9.111	53	130202	192.28 ug/L	#	1
82) 2-Chlorotoluene	9.154	126	558332	195.93 ug/L		88
83) 4-Chlorotoluene	9.256	126	595421	202.26 ug/L		94
84) 1,3,5-Trimethylbenzene	9.229	105	2006295	205.03 ug/L		96
85) Tert-butylbenzene	9.470	119	1756037	205.20 ug/L		97
87) 1,2,4-Trimethylbenzene	9.523	105	2156492	213.53 ug/L		94
88) Sec-Butylbenzene	9.646	105	2636165	200.47 ug/L		99
89) 1,3-Dichlorobenzene	9.753	146	1275620	223.84 ug/L		99
90) 4-Isopropyltoluene	9.759	119	2537819	218.34 ug/L		98
91) 1,4-Dichlorobenzene	9.828	146	1203750	210.40 ug/L		98
93) 1,2-Dichlorobenzene	10.106	146	1116199	209.33 ug/L		99
94) n-Butylbenzene	10.064	91	2146674	200.75 ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	92731	210.67 ug/L		82
96) 1,2,4-Trichlorobenzene	11.224	180	710232	221.19 ug/L		99
97) Hexachlorobutadiene	11.310	225	331241	217.79 ug/L		99
98) Naphthalene	11.412	128	1644380	208.57 ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	590974	218.14 ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

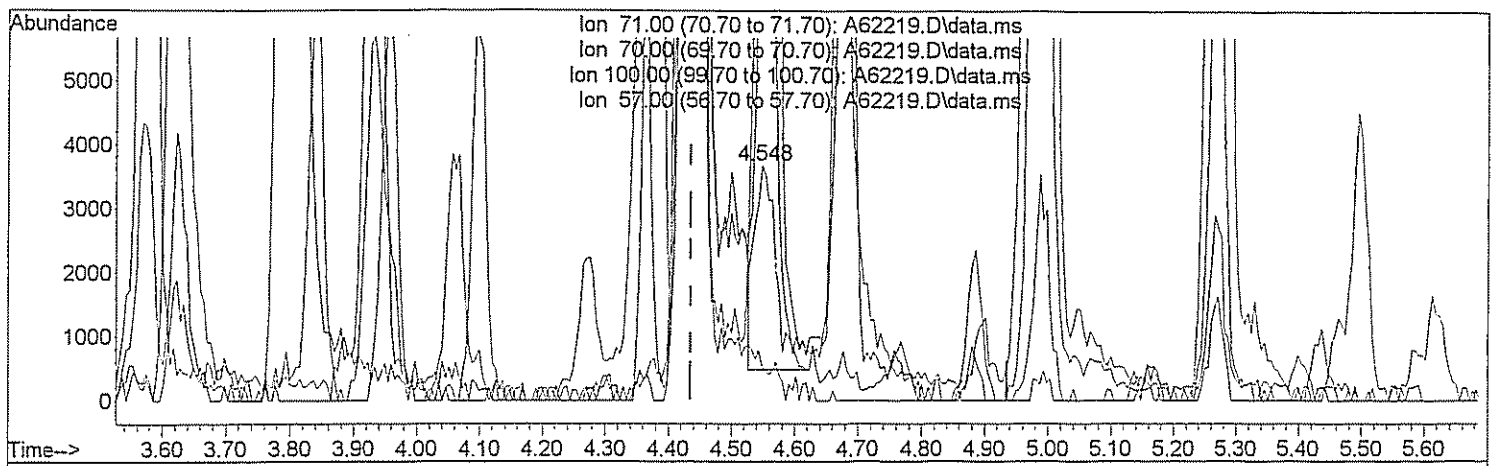
Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

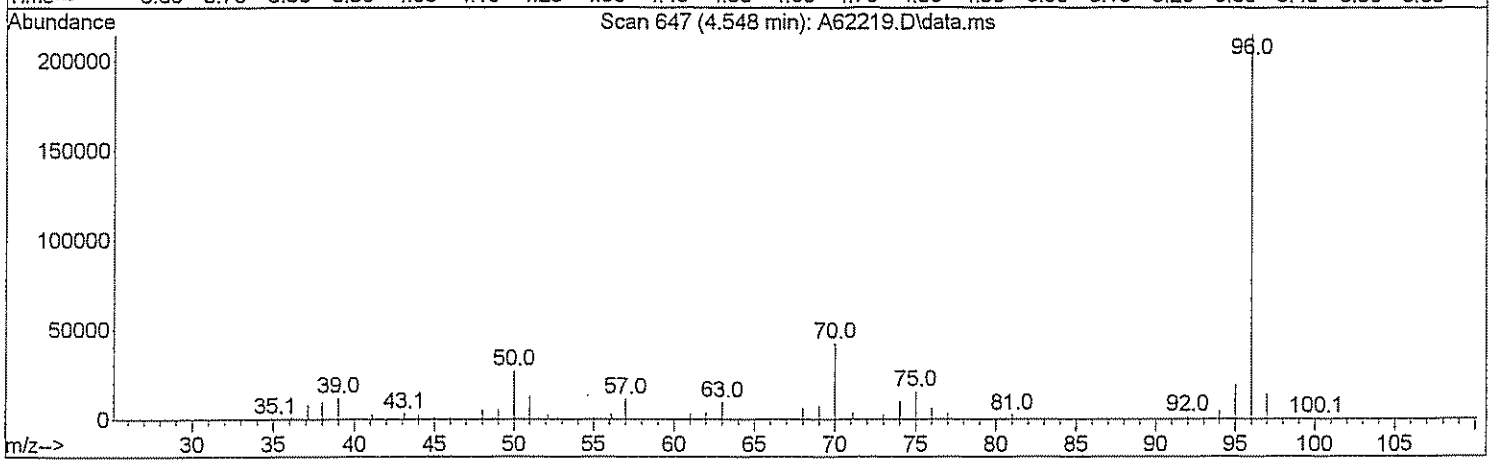


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration





TIC: A62219.D\data.ms

(26) n-Heptane (T)

4.548min (+0.112) 4.62 ug/L

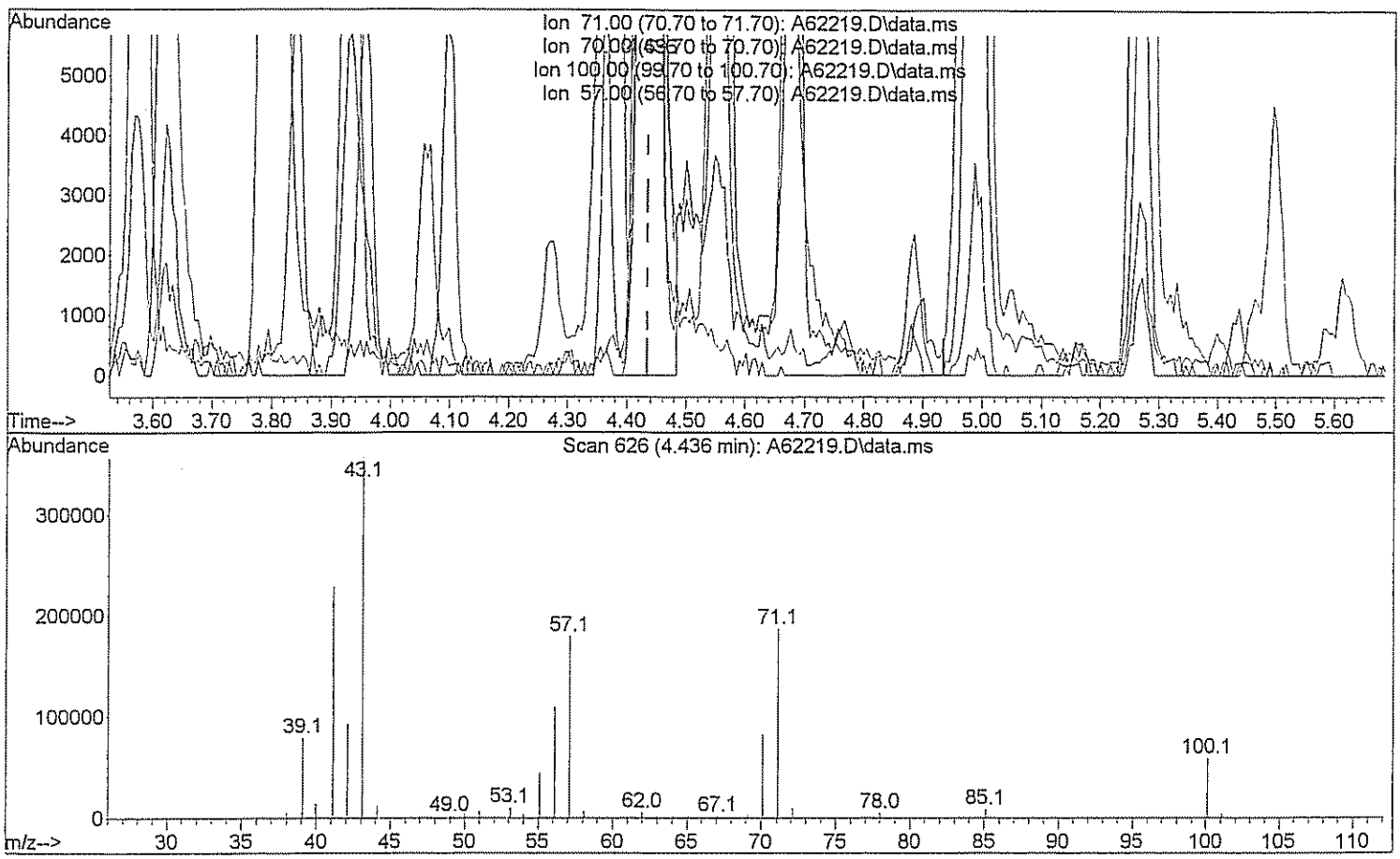
response 7438

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1084.50#
100.00	62.00	0.00#
57.00	40.00	281.08#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 185.89 ug/L m SM 3/17/09

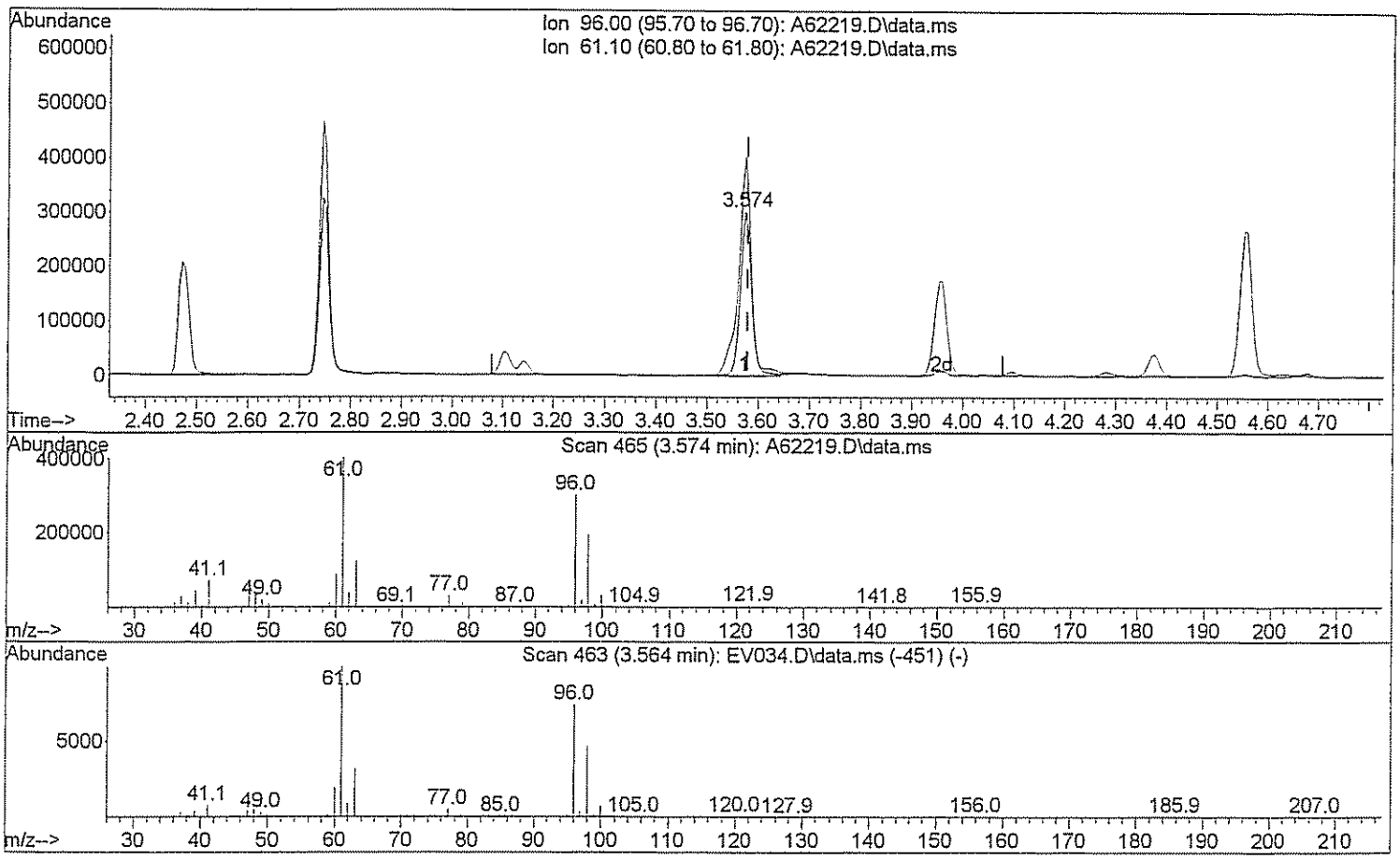
response 299522

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	26.93
100.00	62.00	0.00#
57.00	40.00	6.98#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (-0.005) 208.56 ug/L

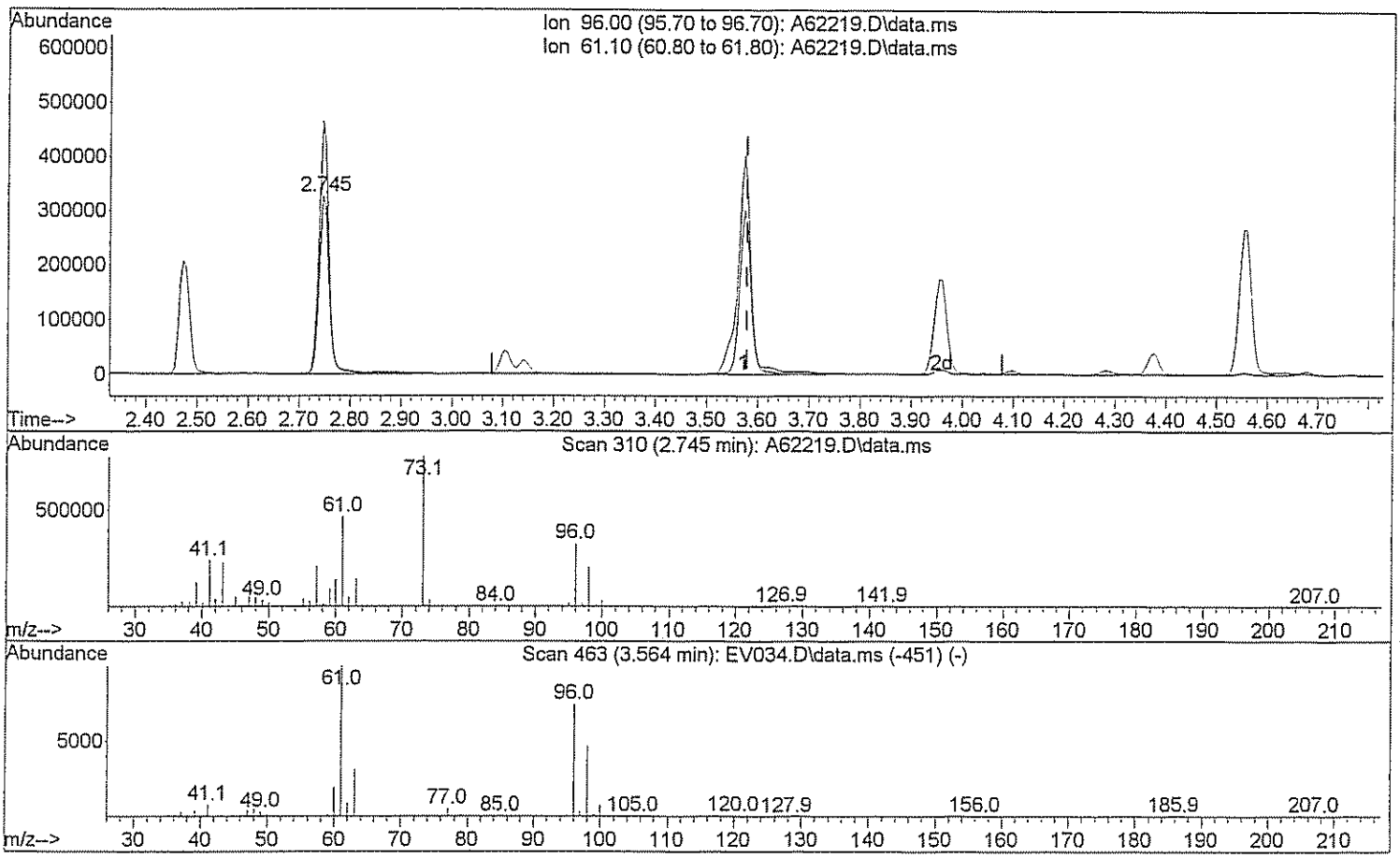
response 462197

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	155.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(29) 1,2-dichloroethene(total)

2.745min (-0.835) 424.47 ug/L m

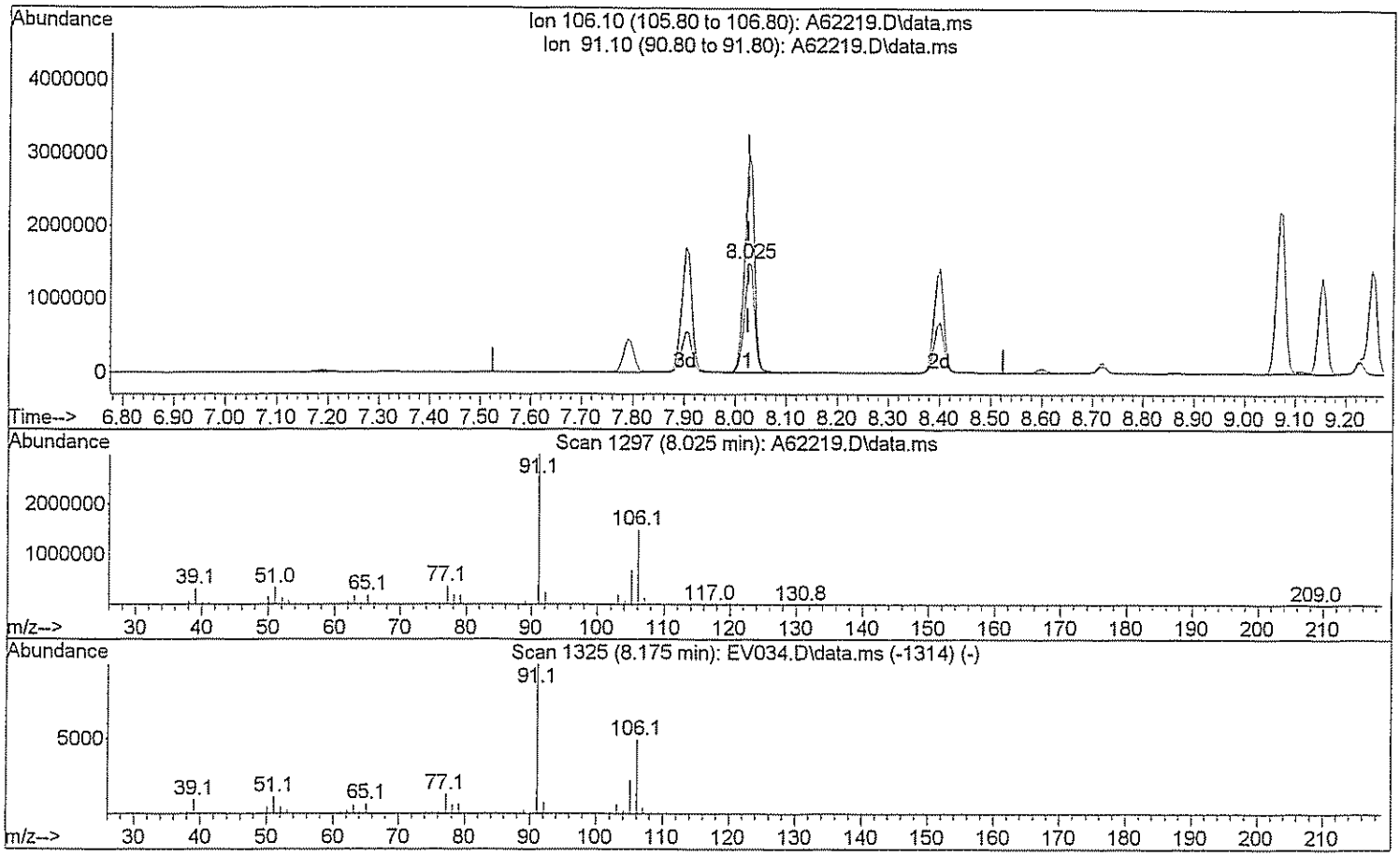
response 940669

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	76.49#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(72) Xylene (Total)

8.025min (+0.000) 434.49 ug/L

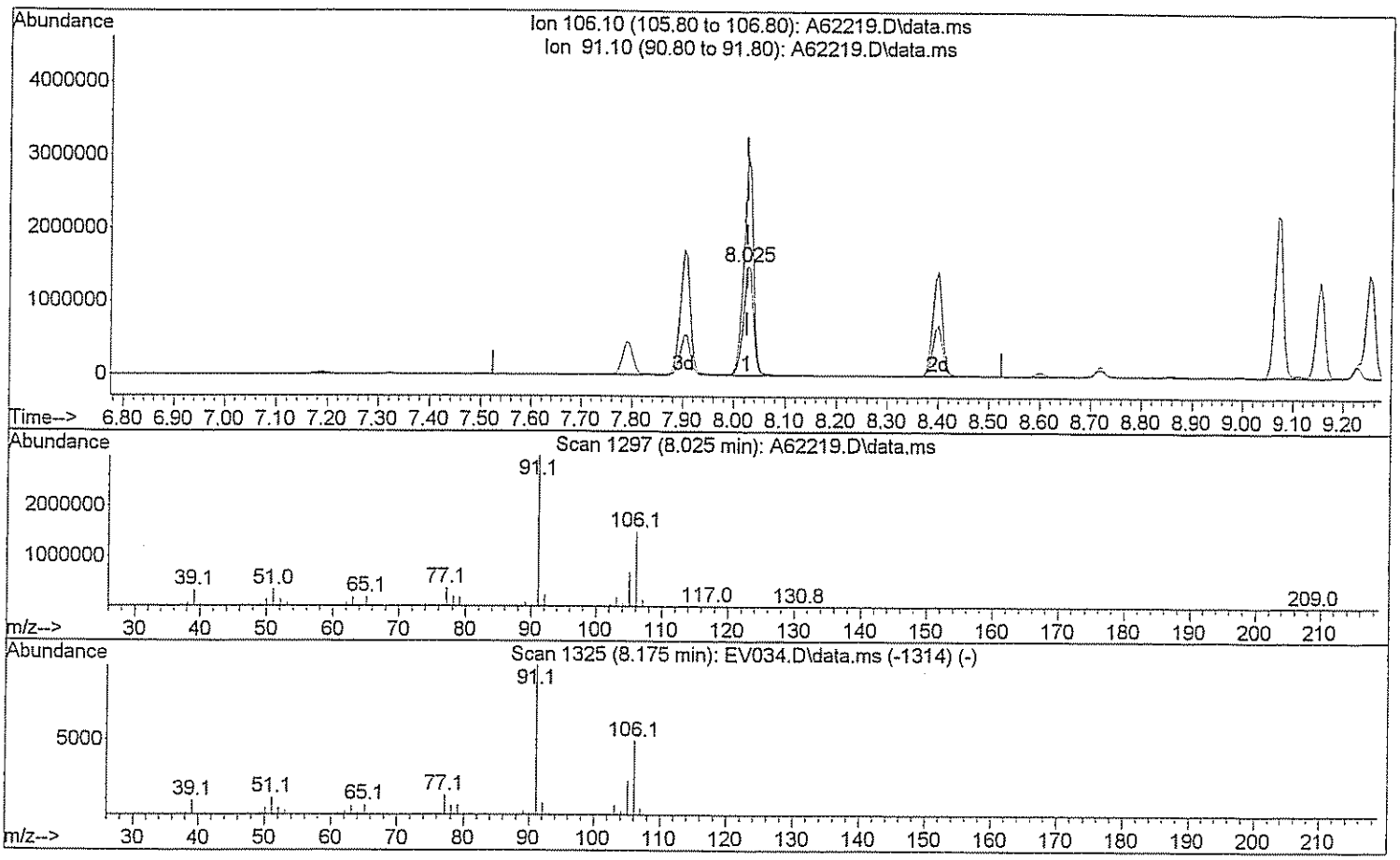
response 2011769

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(72) Xylene (Total)

8.025min (+0.000) 633.11 ug/L m DW 3/17/09

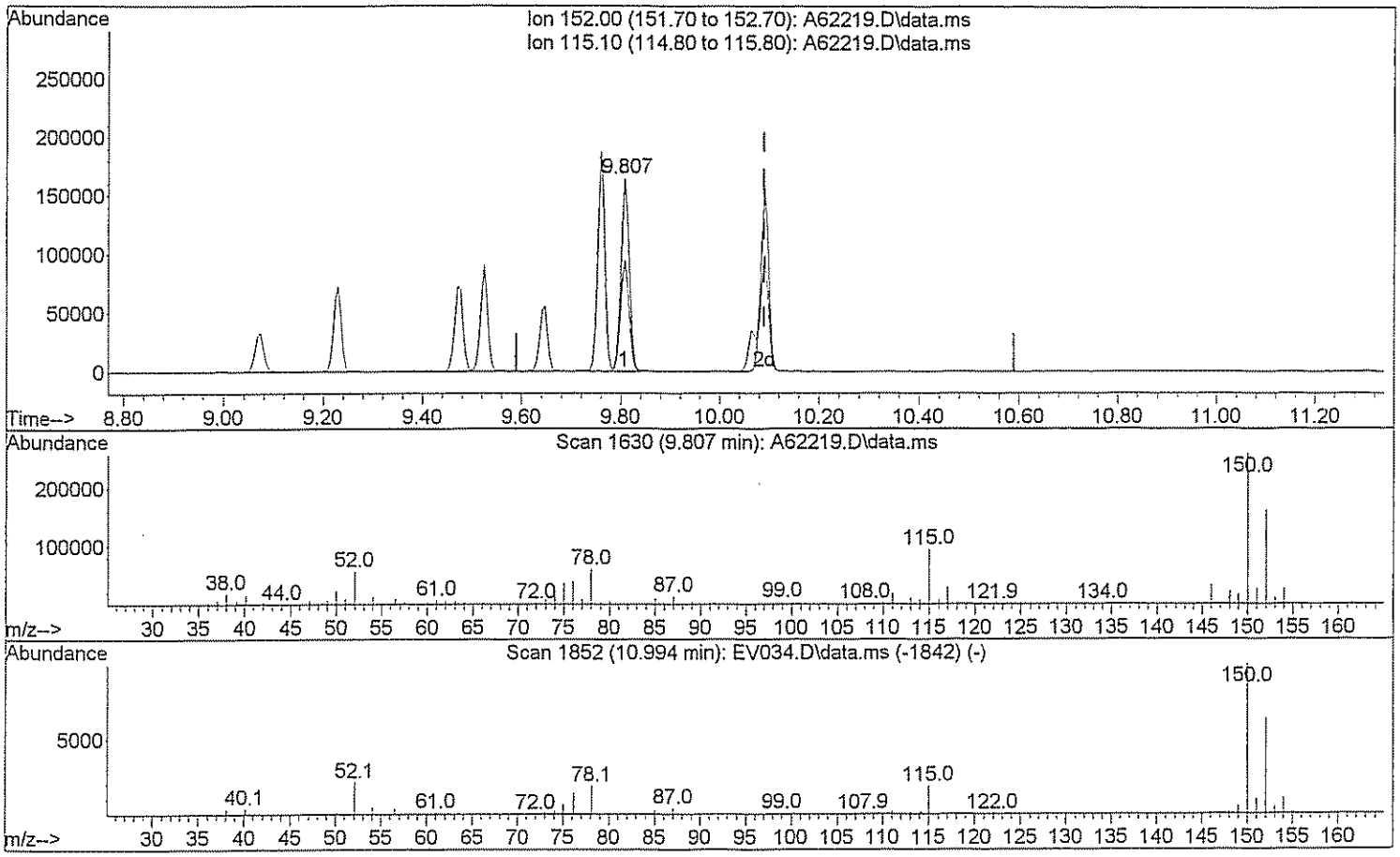
response 2931434

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	134.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.283) 53.05 ug/L

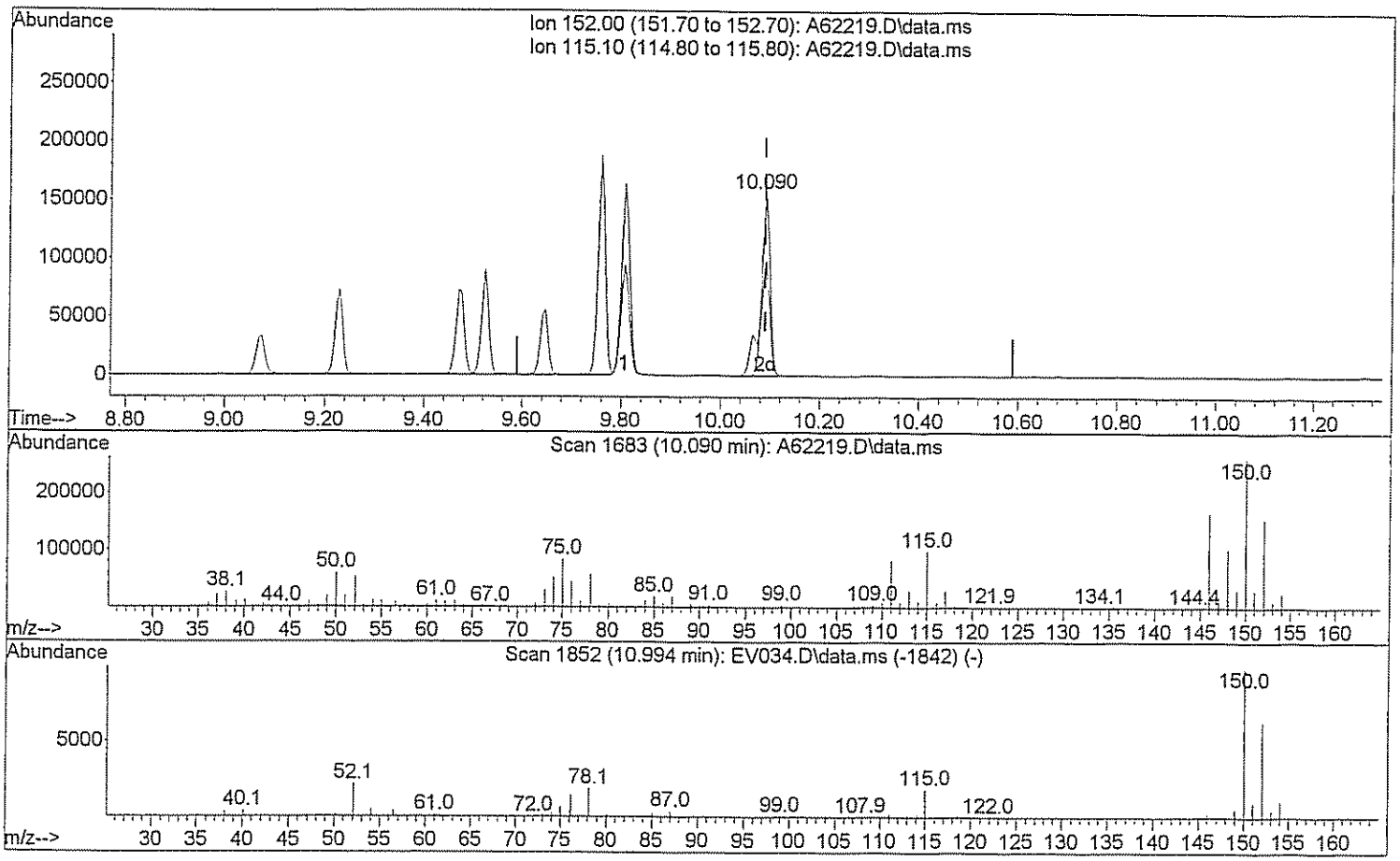
response 186440

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.000) 51.02 ug/L m DM 3/17/09

response 179334

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	61.39
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate ~~Continuing~~ REFERENCE Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	88	0.00
2		Dichlorodifluoromethane	0.089	0.119	-33.7#	107	0.00
3		Chloromethane	0.174	0.181	-4.0	110	0.00
4		Vinyl chloride	0.207	0.222	-7.2	93	0.00
5		Bromomethane	0.115	0.170	-47.8#	191#	0.00
6		Chloroethane	0.145	0.167	-15.2	103	0.00
7		Trichlorofluoromethane	0.256	0.367	-43.4#	111	0.00
8		Ethyl Ether	0.178	0.188	-5.6	87	0.00
9		Freon 113	0.158	0.191	-20.9#	102	0.00
10		Acrolein	0.036	0.034	5.6	84	0.00
11		Tert-Butyl alcohol	0.020	0.020	0.0	69	0.00
12		1,1-Dichloroethene	0.182	0.191	-4.9	89	0.00
13		Iodomethane	0.211	0.197	6.6	191#	0.00
14		Acetonitrile	0.108	0.142	-31.5#	101	0.00
15		Methylene chloride	0.252	0.238	5.6	93	0.00
16		Trans-1,2-dichloroethene	0.209	0.233	-11.5	93	0.00
17		Isopropyl ether	0.812	0.913	-12.4	92	0.00
18		1,1-Dichloroethane	0.374	0.442	-18.2	95	0.00
19		Acetone	0.095	0.092	3.2	89	0.00
20		Methyl Acetate	0.186	0.222	-19.4	76	0.00
21		MTBE	0.545	0.606	-11.2	87	0.00
22		Carbon disulfide	0.679	0.630	7.2	91	0.00
23		Allyl Chloride	0.000	0.000	0.0	101	0.00
24		Acrylonitrile	0.063	0.063	0.0	83	0.00
25		Chloroprene	0.357	0.375	-5.0	93	0.00
26	T	n-Heptane	0.183	0.202	-10.4	103	0.00
27		2,2-Dichloropropane	0.313	0.341	-8.9	90	0.00
28		Cis-1,2-dichloroethene	0.253	0.261	-3.2	91	0.00
29		1,2-dichloroethene(total)	0.268	0.250	6.7	91	0.82#
30		Propionitrile	0.031	0.031	0.0	78	0.00
31		Bromochloromethane	0.109	0.123	-12.8	92	0.00
32		Tetrahydrofuran	0.051	0.052	-2.0	83	0.00
33		Chloroform	0.426	0.434	-1.9	96	0.00
34		Cyclohexane	0.392	0.405	-3.3	99	0.00
35		1,1,1-Trichloroethane	0.318	0.346	-8.8	91	0.00
36		Carbon tetrachloride	0.272	0.309	-13.6	94	0.00
37		Methacrylonitrile	0.170	0.171	-0.6	86	0.00
38		Methylcyclohexane	0.338	0.378	-11.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.019	-26.7#	106	0.00
40	SS	1,2-Dichloroethane-d4	0.266	0.278	-4.5	93	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
42		2-Butanone	0.163	0.177	-8.6	84	0.00
43		1,1-Dichloropropene	0.339	0.392	-15.6	93	0.00
44		Vinyl Acetate	0.381	0.382	-0.3	84	0.00
45		Benzene	1.058	1.201	-13.5	94	0.00
46		1,2-Dichloroethane	0.332	0.366	-10.2	90	0.00
47		Trichloroethene	0.272	0.285	-4.8	90	0.00
48		1,2-Dichloropropane	0.271	0.311	-14.8	92	0.00
49		Methyl methacrylate	0.196	0.187	4.6	82	0.00
50		Dibromomethane	0.167	0.175	-4.8	87	0.00
51		Bromodichloromethane	0.354	0.383	-8.2	89	0.00
52		2-Chloroethylvinyl ether	0.108	0.059	45.4#	32#	0.00
53		Cis-1,3-dichloropropene	0.427	0.497	-16.4	93	0.00
54	SS	Toluene-d8	1.159	1.216	-4.9	92	0.00
55		Toluene	0.694	0.799	-15.1	95	0.00
56		Trans-1,3-dichloropropene	0.387	0.440	-13.7	89	0.00
57		Ethyl methacrylate	0.347	0.372	-7.2	90	0.00
58		1,1,2-Trichloroethane	0.208	0.221	-6.3	88	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
60		4-Methyl-2-pentanone	0.292	0.305	-4.5	86	0.00
61		2-Hexanone	0.210	0.229	-9.0	87	0.00
62		Tetrachloroethene	0.288	0.327	-13.5	97	0.00
63		1,3-Dichloropropane	0.416	0.459	-10.3	92	0.00
64		Dibromochloromethane	0.301	0.315	-4.7	89	0.00
65		1,2-Dibromoethane	0.257	0.271	-5.4	91	0.00
66		1-Chlorohexane	0.432	0.455	-5.3	94	0.00
67		Chlorobenzene	0.848	0.950	-12.0	95	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.336	-10.5	93	0.00
69		Ethylbenzene	1.451	1.577	-8.7	95	0.00
70		m,p-Xylene	0.570	0.647	-13.5	95	0.00
71		o-Xylene	0.578	0.622	-7.6	94	0.00
72		Xylene (Total)	0.586	0.639	-9.0	94	0.00
73		Styrene	0.960	1.041	-8.4	92	0.00
74		Bromoform	0.187	0.198	-5.9	84	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.345	-9.5	94	0.00
76	SS	4-Bromofluorobenzene	0.471	0.472	-0.2	89	0.00
77		Bromobenzene	0.336	0.367	-9.2	93	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.331	-0.3	84	0.00
79		1,2,3-Trichloropropane	0.098	0.101	-3.1	87	0.00
80		n-Propylbenzene	1.700	1.863	-9.6	94	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.074	10.8	61	0.00
82		2-Chlorotoluene	0.361	0.385	-6.6	91	0.00
83		4-Chlorotoluene	0.374	0.406	-8.6	94	0.00
84		1,3,5-Trimethylbenzene	1.207	1.314	-8.9	93	0.00
85		Tert-butylbenzene	1.049	1.148	-9.4	93	0.00
86		Pentachloroethane	0.000	0.000	0.0	91	0.00
87		1,2,4-Trimethylbenzene	1.254	1.370	-9.3	94	0.00
88		Sec-Butylbenzene	1.607	1.767	-10.0	93	0.00
89		1,3-Dichlorobenzene	0.706	0.771	-9.2	94	0.00
90		4-Isopropyltoluene	1.367	1.547	-13.2	93	0.00
91		1,4-Dichlorobenzene	0.708	0.780	-10.2	94	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.472	-2.2	92	0.00
93		1,2-Dichlorobenzene	0.674	0.729	-8.2	96	0.00
94		n-Butylbenzene	1.349	1.441	-6.8	93	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.056	1.8	82	0.00
96		1,2,4-Trichlorobenzene	0.409	0.441	-7.8	96	0.00
97		Hexachlorobutadiene	0.190	0.220	-15.8	101	0.00
98		Naphthalene	0.975	1.016	-4.2	83	0.00
99		1,2,3-Trichlorobenzene	0.342	0.368	-7.6	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	455382	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	371810	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	362973	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	126686	52.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.74%			
54) Toluene-d8	6.142	98	452235	52.49	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.98%			
76) 4-Bromofluorobenzene	8.881	95	171300	50.07	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.14%			
92) 1,2-Dichlorobenzene-d4	10.090	152	171474	51.10	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.188	85	54067	67.01	ug/L	98
3) Chloromethane	1.327	50	82491	51.96	ug/L	98
4) Vinyl chloride	1.392	62	101158	53.68	ug/L	95
5) Bromomethane	1.616	94	77377	82.68	ug/L	92
6) Chloroethane	1.686	64	76250	57.64	ug/L	96
7) Trichlorofluoromethane	1.836	101	167046	60.75	ug/L	99
8) Ethyl Ether	2.044	59	85752	52.94	ug/L	97
9) Freon 113	2.178	101	86854	60.27	ug/L	89
10) Acrolein	2.189	56	77846	239.01	ug/L #	74
11) Tert-Butyl alcohol	2.670	59	184154	996.39	ug/L #	47
12) 1,1-Dichloroethene	2.205	96	86773	52.46	ug/L	89
13) Iodomethane	2.333	142	89900	46.73	ug/L	96
14) Acetonitrile	2.478	40	648038	539.72	ug/L #	1
15) Methylene chloride	2.590	84	108208	50.44	ug/L	98
16) Trans-1,2-dichloroethene	2.750	96	106306	55.96	ug/L	90
17) Isopropyl ether	3.093	45	415843	56.26	ug/L	100
18) 1,1-Dichloroethane	3.109	63	201485	59.18	ug/L	97
19) Acetone	2.296	43	83481	107.15	ug/L	95
20) Methyl Acetate	4.259	43	101155	44.82	ug/L #	100
21) MTBE	2.740	73	275965	55.64	ug/L	100
22) Carbon disulfide	2.355	76	286671	49.87	ug/L	100
24) Acrylonitrile	2.831	53	143730	249.46	ug/L	98
25) Chloroprene	3.146	53	170876	52.54	ug/L	91
26) n-Heptane	4.436	71	92056m	55.36	ug/L	
27) 2,2-Dichloropropane	3.553	77	155142	54.46	ug/L #	71
28) Cis-1,2-dichloroethene	3.574	96	118772	51.52	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	227721m	93.31 ug/L	
30) Propionitrile	3.735	54	142132	499.58 ug/L	99
31) Bromochloromethane	3.783	128	56165	56.47 ug/L	96
32) Tetrahydrofuran	3.788	72	23801	50.96 ug/L #	1
33) Chloroform	3.836	83	197718	50.93 ug/L	97
34) Cyclohexane	3.933	56	184270	54.44 ug/L	94
35) 1,1,1-Trichloroethane	3.960	97	157737	54.44 ug/L	99
36) Carbon tetrachloride	4.061	117	140935	56.81 ug/L	100
37) Methacrylonitrile	3.826	41	780286	504.02 ug/L #	19
38) Methylcyclohexane	4.992	83	172142	55.87 ug/L	94
39) Isobutyl Alcohol	4.436	43	174603	1293.22 ug/L	91
42) 2-Butanone	3.612	43	131383	108.32 ug/L	96
43) 1,1-Dichloropropene	4.099	75	145727	57.82 ug/L	98
44) Vinyl Acetate	3.136	43	142059	50.10 ug/L	99
45) Benzene	4.281	78	446598	56.75 ug/L	100
46) 1,2-Dichloroethane	4.377	62	135994	55.12 ug/L #	84
47) Trichloroethene	4.885	95	106034	52.47 ug/L	89
48) 1,2-Dichloropropane	5.163	63	115549	57.30 ug/L	95
49) Methyl methacrylate	5.265	69	69429	47.55 ug/L	97
50) Dibromomethane	5.281	93	64913	52.33 ug/L	96
51) Bromodichloromethane	5.431	83	142305	54.06 ug/L	100
52) 2-Chloroethylvinyl ether	5.778	63	88259	109.93 ug/L	95
53) Cis-1,3-dichloropropene	5.918	75	184617	58.20 ug/L	99
55) Toluene	6.217	92	297166	57.61 ug/L	98
56) Trans-1,3-dichloropropene	6.570	75	163637	56.93 ug/L	97
57) Ethyl methacrylate	6.624	69	138195	53.55 ug/L	94
58) 1,1,2-Trichloroethane	6.773	83	82308	53.18 ug/L	95
60) 4-Methyl-2-pentanone	6.094	43	221650	104.72 ug/L	95
61) 2-Hexanone	7.062	43	166157	108.75 ug/L	97
62) Tetrachloroethene	6.795	166	118630	56.70 ug/L	96
63) 1,3-Dichloropropane	6.977	76	166692	55.20 ug/L	92
64) Dibromochloromethane	7.185	129	114427	52.34 ug/L	99
65) 1,2-Dibromoethane	7.319	107	98318	52.70 ug/L	98
66) 1-Chlorohexane	7.790	91	164972	52.56 ug/L	93
67) Chlorobenzene	7.811	112	344787	56.02 ug/L	89
68) 1,1,1,2-Tetrachloroethane	7.908	131	122072	55.38 ug/L	96
69) Ethylbenzene	7.902	91	572267	54.32 ug/L	98
70) m,p-Xylene	8.020	106	469420	113.43 ug/L	90
71) o-Xylene	8.394	106	225692	53.82 ug/L	94
72) Xylene (Total)	8.020	106	695566m	163.62 ug/L	
73) Styrene	8.421	104	377972	54.24 ug/L	92
74) Bromoform	8.598	173	71717	52.89 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

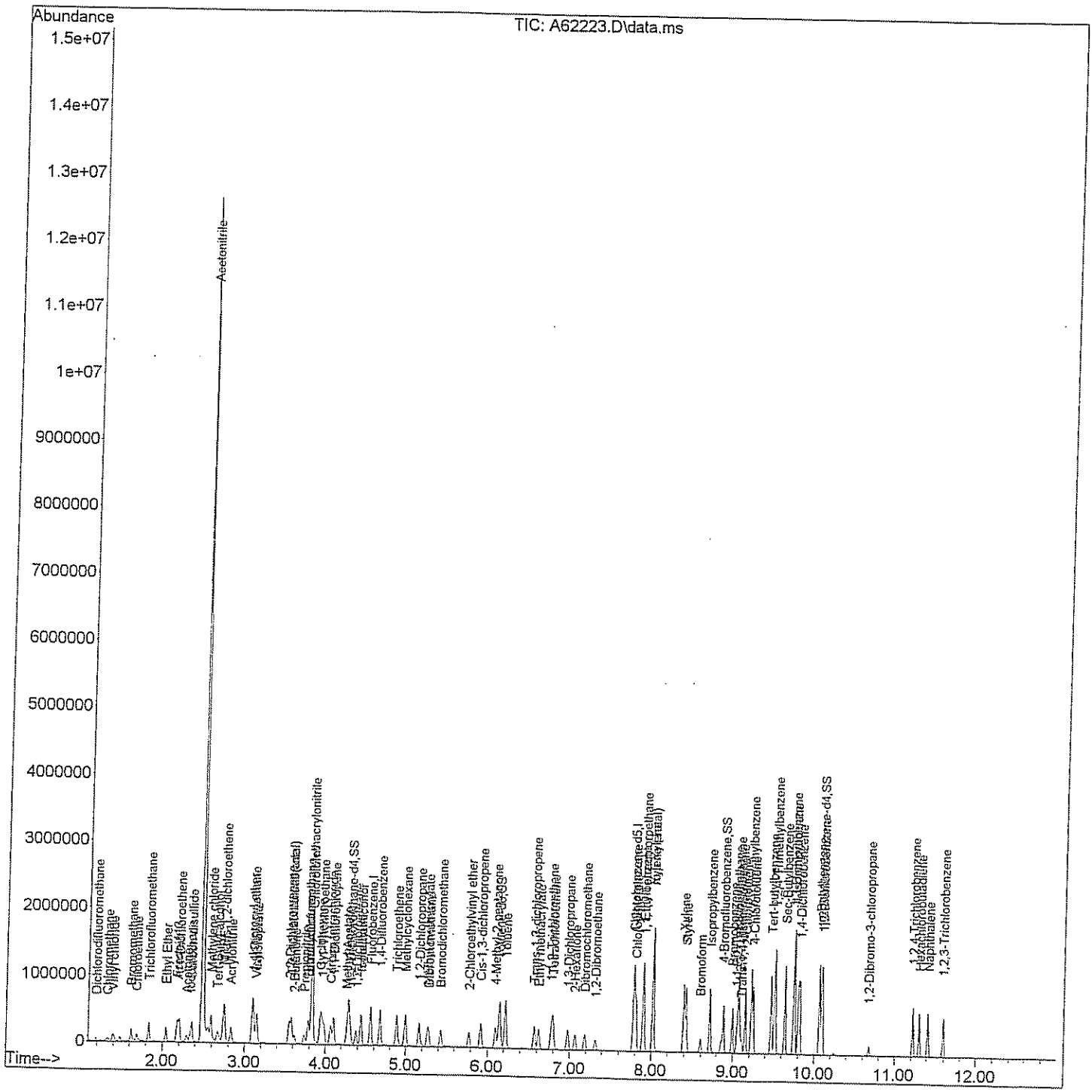
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	488282	54.76 ug/L	98
77) Bromobenzene	8.994	156	133216	54.57 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	120279	50.17 ug/L	97
79) 1,2,3-Trichloropropane	9.085	110	36572	51.35 ug/L	96
80) n-Propylbenzene	9.069	91	676242	54.79 ug/L	99
81) Trans-1,4-dichloro-2-b...	9.106	53	26923	45.29 ug/L #	25
82) 2-Chlorotoluene	9.149	126	139769	53.40 ug/L	90
83) 4-Chlorotoluene	9.250	126	147320	54.23 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	476804	54.42 ug/L	95
85) Tert-butylbenzene	9.470	119	416869	54.76 ug/L	96
87) 1,2,4-Trimethylbenzene	9.518	105	497453	54.66 ug/L	93
88) Sec-Butylbenzene	9.641	105	641537	54.99 ug/L	98
89) 1,3-Dichlorobenzene	9.748	146	279766	54.61 ug/L	100
90) 4-Isopropyltoluene	9.759	119	561573	56.60 ug/L	98
91) 1,4-Dichlorobenzene	9.823	146	283114	55.08 ug/L	98
93) 1,2-Dichlorobenzene	10.101	146	264432	54.04 ug/L	99
94) n-Butylbenzene	10.064	91	523187	53.43 ug/L	95
95) 1,2-Dibromo-3-chloropr...	10.679	75	20440	49.78 ug/L	80
96) 1,2,4-Trichlorobenzene	11.224	180	160221	53.96 ug/L	99
97) Hexachlorobutadiene	11.305	225	79748	57.67 ug/L	98
98) Naphthalene	11.412	128	368792	52.12 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	133500	53.71 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

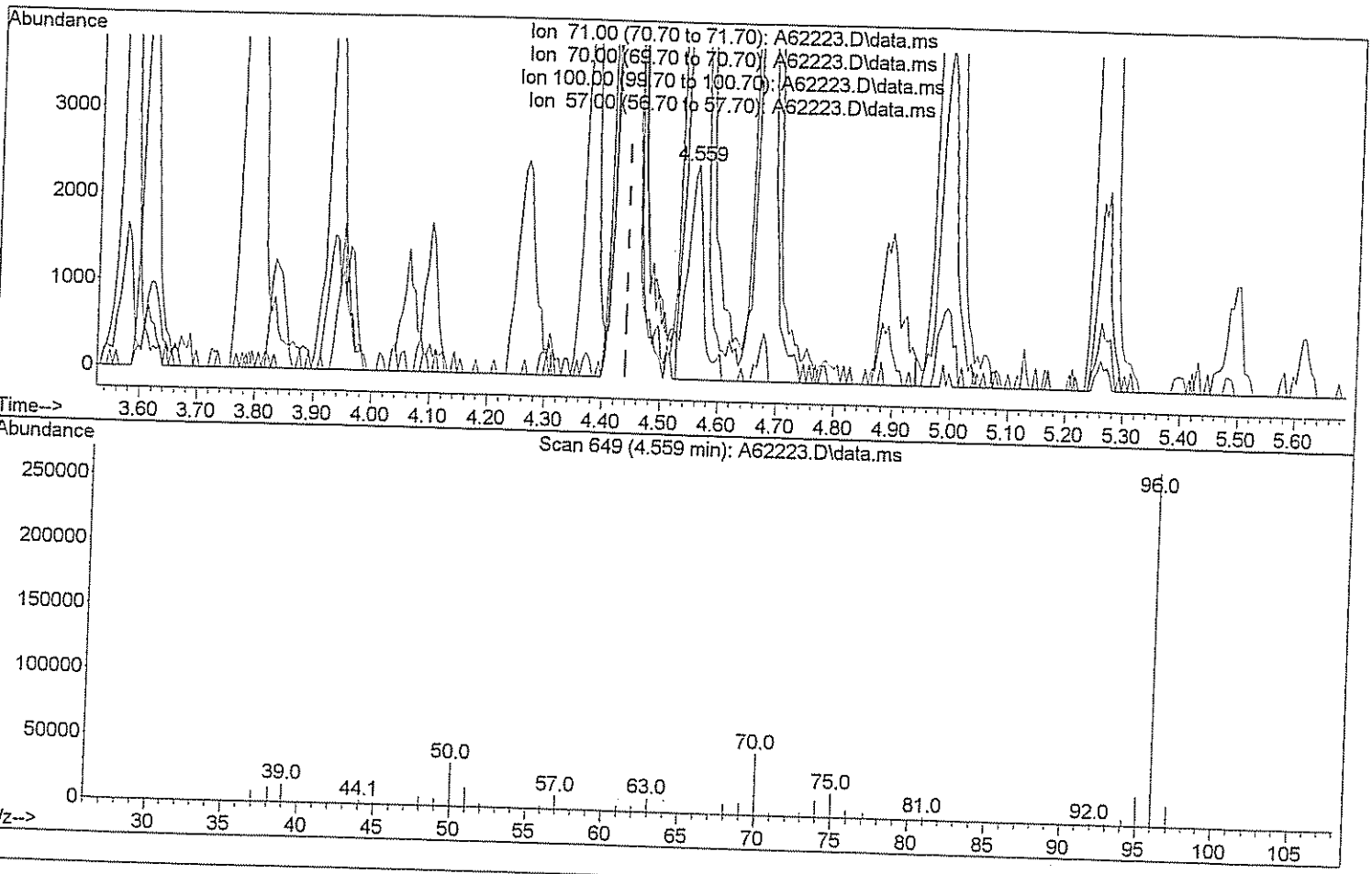


A8260_031009.M Tue Mar 17 08:27:26 2009

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(26) n-Heptane (T)

4.559min (+0.118) 2.75 ug/L

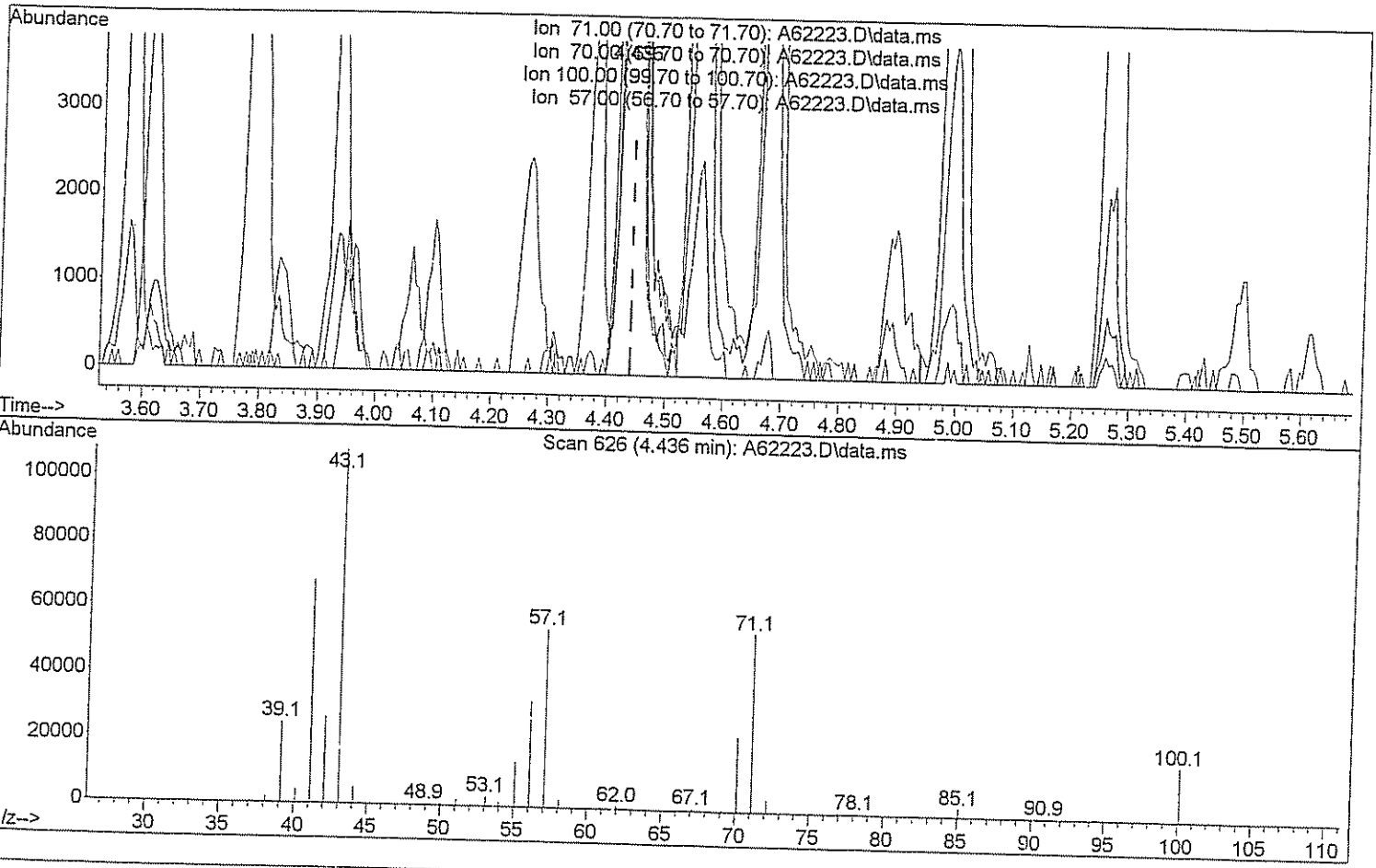
response 4573

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1777.41#
100.00	62.00	0.00#
57.00	40.00	406.25#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(26) n-Heptane (T)

4.436min (-0.005) 55.36 ug/L m SM 3/17/09

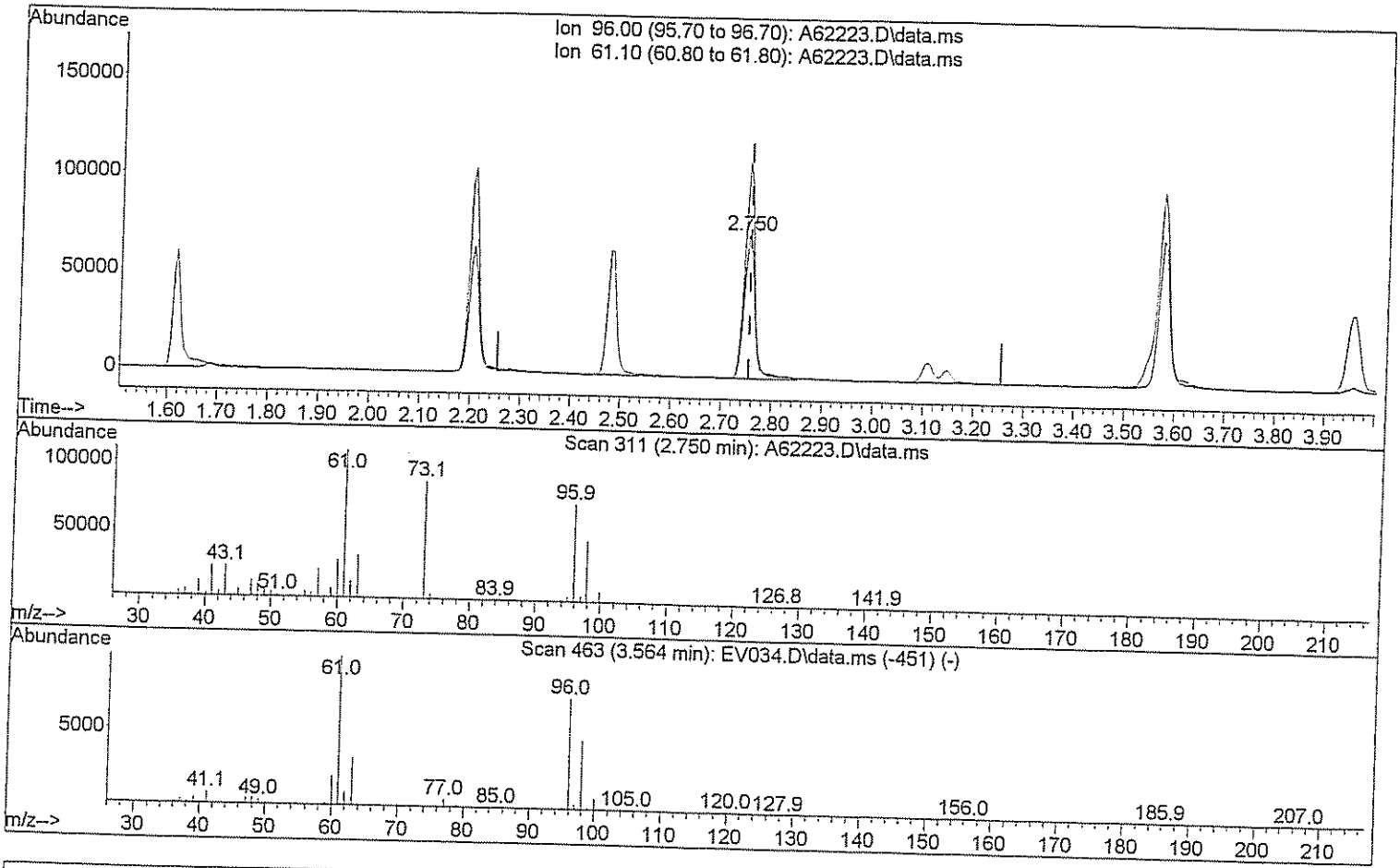
response 92056

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	88.30#
100.00	62.00	0.00#
57.00	40.00	20.18#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 43.56 ug/L

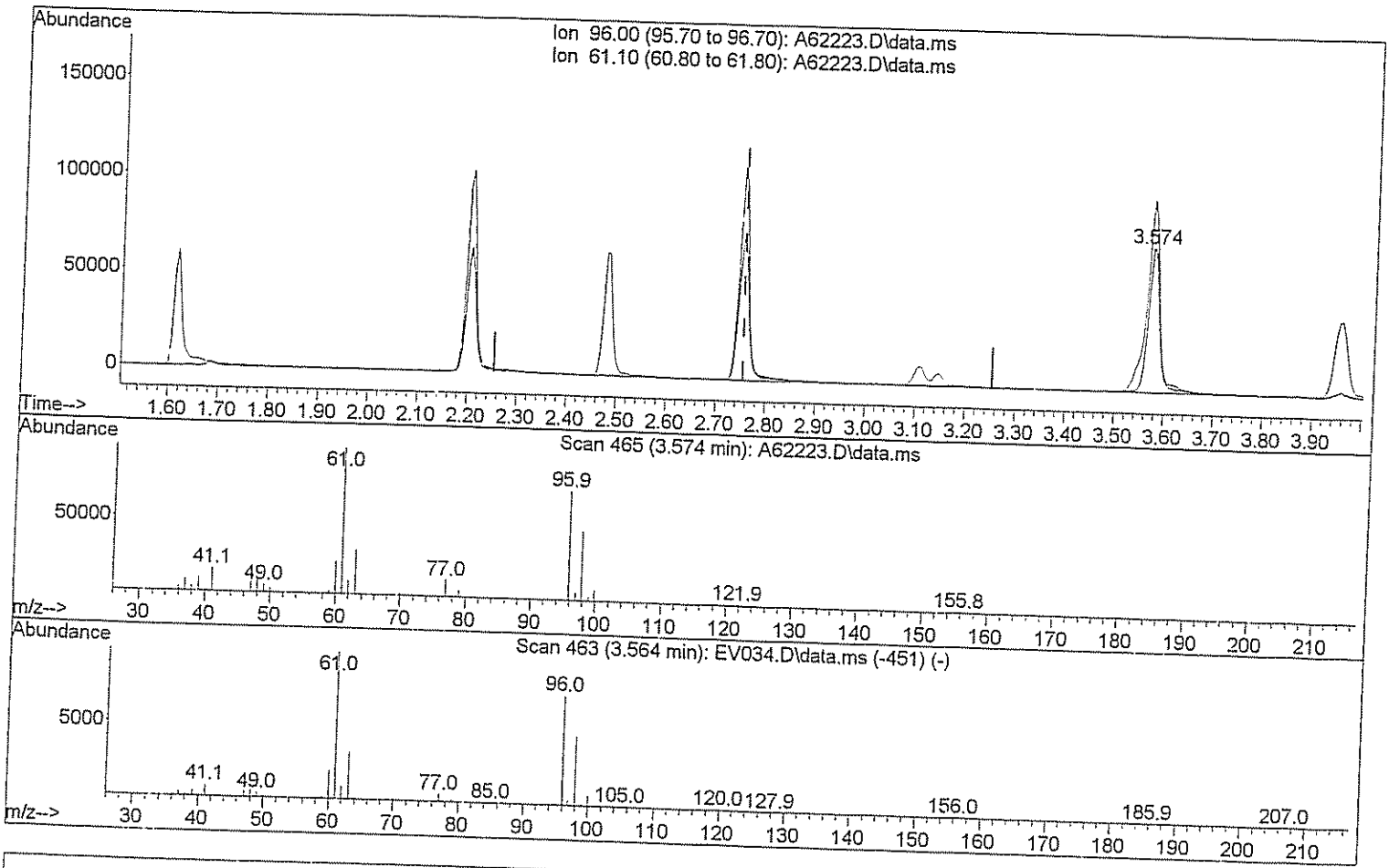
response 106306

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	142.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (+0.819) 93.31 ug/L m DM 3/17/09

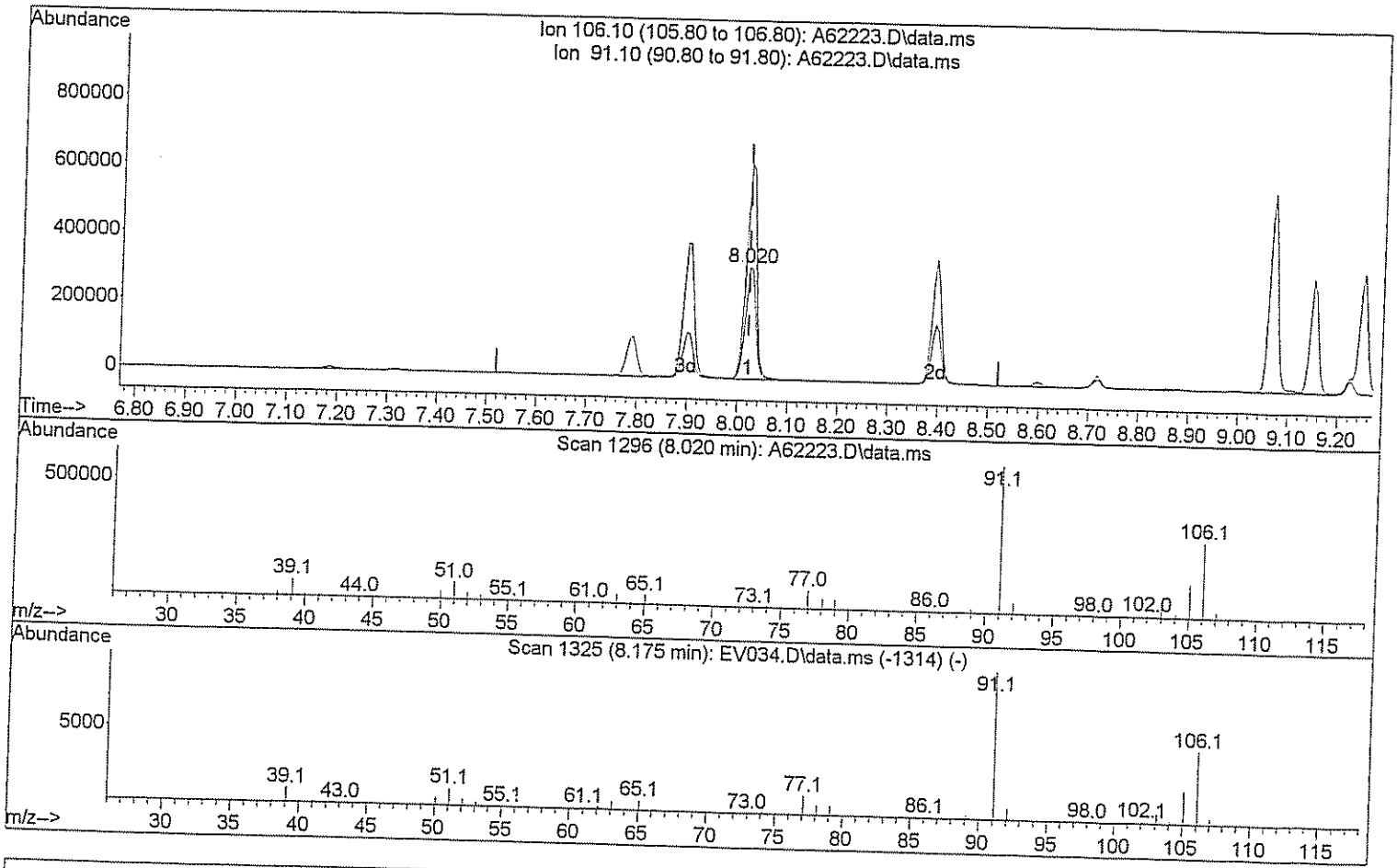
response 227721

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	66.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 110.42 ug/L

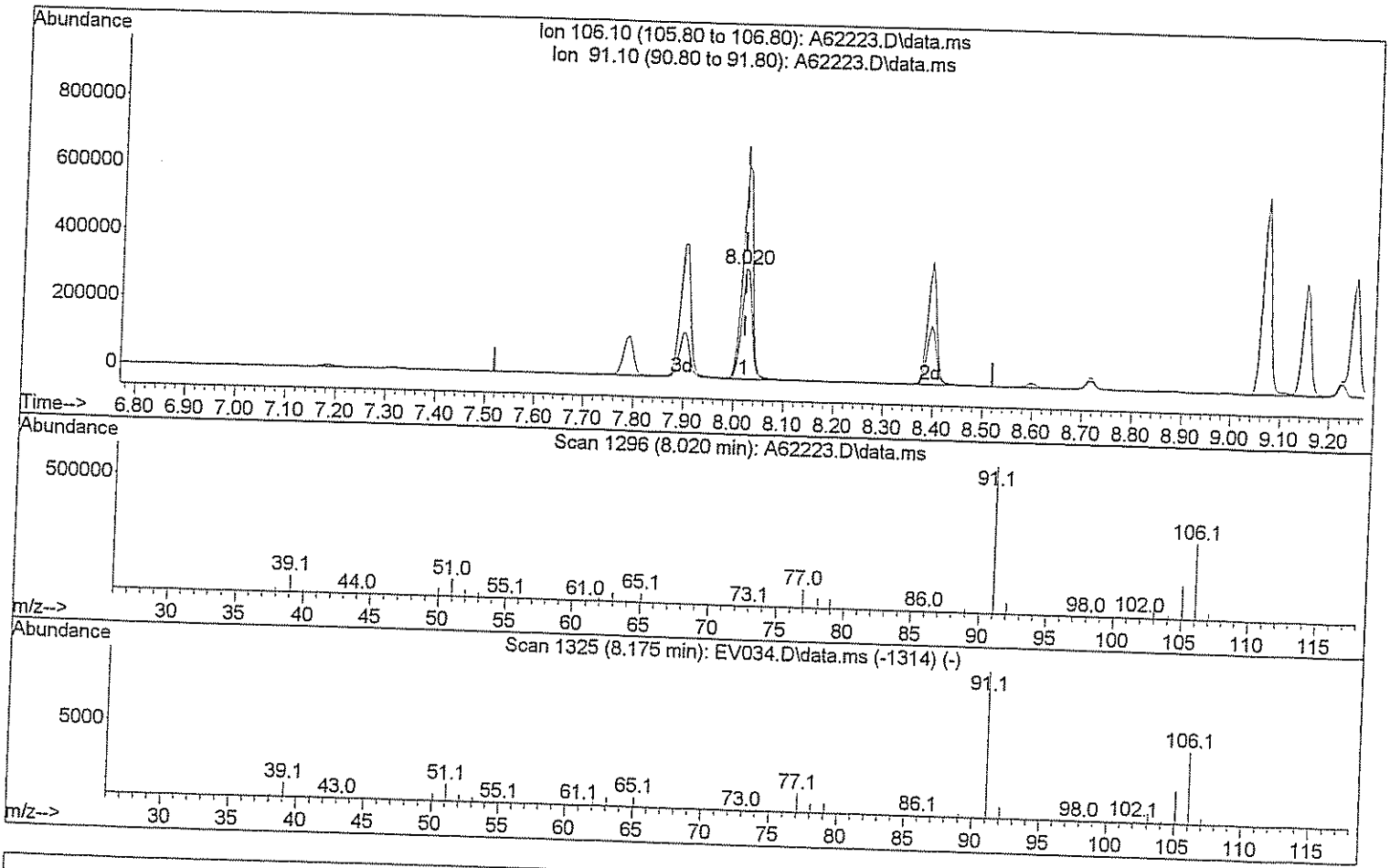
response 469420

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 163.62 ug/L m DM 3/17/09

response 695566

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.95#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	109	0.00
2		Dichlorodifluoromethane	0.089	0.089	0.0	99	0.00
3		Chloromethane	0.174	0.140	19.5	105	0.00
4		Vinyl chloride	0.207	0.170	17.9	88	0.00
5		Bromomethane	0.115	0.360	-213.0#	502#	0.00
6		Chloroethane	0.145	0.168	-15.9	129	0.00
7		Trichlorofluoromethane	0.256	0.272	-6.3	102	0.00
8		Ethyl Ether	0.178	0.159	10.7	92	0.00
9		Freon 113	0.158	0.174	-10.1	115	0.00
10		Acrolein	0.036	0.028	22.2#	86	0.00
11		Tert-Butyl alcohol	0.020	0.018	10.0	74	0.00
12		1,1-Dichloroethene	0.182	0.166	8.8	96	0.00
13		Iodomethane	0.211	0.258	-22.3#	309#	0.00
14		Acetonitrile	0.108	0.153	-41.7#	135	0.00
15		Methylene chloride	0.252	0.207	17.9	100	0.00
16		Trans-1,2-dichloroethene	0.209	0.186	11.0	92	0.00
17		Isopropyl ether	0.812	0.760	6.4	95	0.00
18		1,1-Dichloroethane	0.374	0.376	-0.5	100	0.00
19		Acetone	0.095	0.063	33.7#	75	0.00
20		Methyl Acetate	0.186	0.179	3.8	76	0.00
21		MTBE	0.545	0.548	-0.6	98	0.00
22		Carbon disulfide	0.679	0.519	23.6#	93	0.00
23		Allyl Chloride	0.000	0.000	0.0	133	0.00
24		Acrylonitrile	0.063	0.060	4.8	99	0.00
25		Chloroprene	0.357	0.314	12.0	97	0.00
26	T	n-Heptane	0.183	0.009	95.1#	6#	0.12
27		2,2-Dichloropropane	0.313	0.296	5.4	97	0.00
28		Cis-1,2-dichloroethene	0.253	0.225	11.1	97	0.00
29		1,2-dichloroethene(total)	0.268	0.212	20.9#	95	0.82#
30		Propionitrile	0.031	0.027	12.9	82	0.00
31		Bromochloromethane	0.109	0.123	-12.8	113	0.00
32		Tetrahydrofuran	0.051	0.045	11.8	89	0.00
33		Chloroform	0.426	0.410	3.8	112	0.00
34		Cyclohexane	0.392	0.323	17.6	98	0.00
35		1,1,1-Trichloroethane	0.318	0.323	-1.6	105	0.00
36		Carbon tetrachloride	0.272	0.288	-5.9	108	0.00
37		Methacrylonitrile	0.170	0.156	8.2	97	0.00
38		Methylcyclohexane	0.338	0.328	3.0	107	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	61	-0.18
40	SS	1,2-Dichloroethane-d4	0.266	0.275	-3.4	113	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	117	0.00
42		2-Butanone	0.163	0.124	23.9#	78	0.00
43		1,1-Dichloropropene	0.339	0.308	9.1	97	0.00
44		Vinyl Acetate	0.381	0.271	28.9#	79	0.00
45		Benzene	1.058	0.947	10.5	99	0.00
46		1,2-Dichloroethane	0.332	0.293	11.7	95	0.00
47		Trichloroethene	0.272	0.233	14.3	97	0.00
48		1,2-Dichloropropane	0.271	0.247	8.9	96	0.00
49		Methyl methacrylate	0.196	0.188	4.1	109	0.00
50		Dibromomethane	0.167	0.174	-4.2	115	0.00
51		Bromodichloromethane	0.354	0.394	-11.3	122	0.00
52		2-Chloroethylvinyl ether	0.108	0.045	58.3#	32#	0.00
53		Cis-1,3-dichloropropene	0.427	0.468	-9.6	116	0.00
54	SS	Toluene-d8	1.159	1.393	-20.2#	140	0.00
55		Toluene	0.694	0.783	-12.8	123	0.00
56		Trans-1,3-dichloropropene	0.387	0.411	-6.2	111	0.00
57		Ethyl methacrylate	0.347	0.384	-10.7	123	0.00
58		1,1,2-Trichloroethane	0.208	0.232	-11.5	123	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	146	0.00
60		4-Methyl-2-pentanone	0.292	0.238	18.5	108	0.00
61		2-Hexanone	0.210	0.168	20.0	103	0.00
62		Tetrachloroethene	0.288	0.307	-6.6	146	0.00
63		1,3-Dichloropropane	0.416	0.385	7.5	124	0.00
64		Dibromochloromethane	0.301	0.293	2.7	132	0.00
65		1,2-Dibromoethane	0.257	0.226	12.1	122	0.00
66		1-Chlorohexane	0.432	0.369	14.6	123	0.00
67		Chlorobenzene	0.848	0.814	4.0	131	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.304	0.0	135	0.00
69		Ethylbenzene	1.451	1.324	8.8	128	0.00
70		m,p-Xylene	0.570	0.557	2.3	131	0.00
71		o-Xylene	0.578	0.535	7.4	130	0.00
72		Xylene (Total)	0.586	0.551	6.0	131	0.00
73		Styrene	0.960	0.902	6.0	128	0.00
74		Bromoform	0.187	0.189	-1.1	130	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.178	4.1	132	0.00
76	SS	4-Bromofluorobenzene	0.471	0.478	-1.5	146	0.00
77		Bromobenzene	0.336	0.355	-5.7	145	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.293	11.2	120	0.00
79		1,2,3-Trichloropropane	0.098	0.092	6.1	128	0.00
80		n-Propylbenzene	1.700	1.597	6.1	130	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.057	31.3#	76	0.00
82		2-Chlorotoluene	0.361	0.359	0.6	136	0.00
83		4-Chlorotoluene	0.374	0.380	-1.6	142	0.00
84		1,3,5-Trimethylbenzene	1.207	1.154	4.4	131	0.00
85		Tert-butylbenzene	1.049	1.054	-0.5	137	0.00
86		Pentachloroethane	0.000	0.000	0.0	139	0.00
87		1,2,4-Trimethylbenzene	1.254	1.211	3.4	134	0.00
88		Sec-Butylbenzene	1.607	1.579	1.7	133	0.00
89		1,3-Dichlorobenzene	0.706	0.739	-4.7	145	0.00
90		4-Isopropyltoluene	1.367	1.412	-3.3	136	0.00
91		1,4-Dichlorobenzene	0.708	0.738	-4.2	143	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.514	-11.3	161#	0.00
93		1,2-Dichlorobenzene	0.674	0.680	-0.9	144	0.00
94		n-Butylbenzene	1.349	1.235	8.5	129	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.048	15.8	114	0.00
96		1,2,4-Trichlorobenzene	0.409	0.418	-2.2	146	0.00
97		Hexachlorobutadiene	0.190	0.203	-6.8	150	0.00
98		Naphthalene	0.975	0.927	4.9	122	0.00
99		1,2,3-Trichlorobenzene	0.342	0.358	-4.7	144	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	563188	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.677	114	492839	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	584106	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	154901	51.77	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.54%				
54) Toluene-d8	6.142	98	686647	60.13	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 120.26%#				
76) 4-Bromofluorobenzene	8.881	95	279134	50.70	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 101.40%				
92) 1,2-Dichlorobenzene-d4	10.085	152	300015	55.56	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 111.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.189	85	49997	50.10	ug/L		98
3) Chloromethane	1.328	50	78907	40.19	ug/L		99
4) Vinyl chloride	1.397	62	95479	40.97	ug/L		97
5) Bromomethane	1.617	94	202942	134.17	ug/L		93
6) Chloroethane	1.686	64	94832	57.96	ug/L		98
7) Trichlorofluoromethane	1.836	101	153156	45.39	ug/L		99
8) Ethyl Ether	2.045	59	89784	44.82	ug/L		94
9) Freon 113	2.178	101	98210	55.10	ug/L		94
10) Acrolein	2.189	56	79518	197.41	ug/L	#	74
11) Tert-Butyl alcohol	2.676	59	198564	868.70	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	93237	45.58	ug/L		94
13) Iodomethane	2.333	142	145529	61.17	ug/L		99
14) Acetonitrile	2.483	40	863246	578.79	ug/L	#	1
15) Methylene chloride	2.596	84	116695	44.20	ug/L		92
16) Trans-1,2-dichloroethene	2.756	96	104775	44.60	ug/L		94
17) Isopropyl ether	3.093	45	427779	46.80	ug/L		99
18) 1,1-Dichloroethane	3.109	63	211874	50.32	ug/L		98
19) Acetone	2.296	43	70764	73.76	ug/L		94
20) Methyl Acetate	4.259	43	100664	34.81	ug/L	#	100
21) MTBE	2.740	73	308825	50.34	ug/L		100
22) Carbon disulfide	2.355	76	292311	41.24	ug/L		100
24) Acrylonitrile	2.831	53	170303	239.00	ug/L		99
25) Chloroprene	3.147	53	177065	44.02	ug/L		92
26) n-Heptane	4.559	71	4973	2.42	ug/L	#	1
27) 2,2-Dichloropropane	3.553	77	166717	47.32	ug/L	#	73
28) Cis-1,2-dichloroethene	3.580	96	126502	44.37	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	238536m	79.03 ug/L	
30) Propionitrile	3.735	54	149379	424.55 ug/L	99
31) Bromochloromethane	3.783	128	69103	56.18 ug/L #	73
32) Tetrahydrofuran	3.789	72	25411	43.99 ug/L #	22
33) Chloroform	3.837	83	230832	48.08 ug/L	99
34) Cyclohexane	3.933	56	182003	43.34 ug/L	88
35) 1,1,1-Trichloroethane	3.960	97	181787	50.73 ug/L	97
36) Carbon tetrachloride	4.061	117	162088	52.83 ug/L	94
37) Methacrylonitrile	3.826	41	879957	459.60 ug/L #	18
38) Methylcyclohexane	4.992	83	184641	48.46 ug/L	89
39) Isobutyl Alcohol	4.259	43	100664	602.86 ug/L	89
42) 2-Butanone	3.617	43	122408	76.14 ug/L	97
43) 1,1-Dichloropropene	4.099	75	151759	45.42 ug/L	99
44) Vinyl Acetate	3.136	43	133439	35.50 ug/L	99
45) Benzene	4.281	78	466786	44.75 ug/L	100
46) 1,2-Dichloroethane	4.377	62	144622	44.22 ug/L #	85
47) Trichloroethene	4.885	95	114694	42.82 ug/L #	76
48) 1,2-Dichloropropane	5.163	63	121533	45.47 ug/L	100
49) Methyl methacrylate	5.265	69	92613	47.85 ug/L	97
50) Dibromomethane	5.281	93	85579	52.05 ug/L	100
51) Bromodichloromethane	5.431	83	194012	55.60 ug/L	100
52) 2-Chloroethylvinyl ether	5.779	63	88317	82.99 ug/L	96
53) Cis-1,3-dichloropropene	5.918	75	230572	54.83 ug/L	99
55) Toluene	6.217	92	385871	56.44 ug/L	99
56) Trans-1,3-dichloropropene	6.570	75	202720	53.21 ug/L	98
57) Ethyl methacrylate	6.624	69	189113	55.28 ug/L	99
58) 1,1,2-Trichloroethane	6.774	83	114521	55.82 ug/L	93
60) 4-Methyl-2-pentanone	6.094	43	277517	81.47 ug/L	95
61) 2-Hexanone	7.063	43	195853	79.65 ug/L	97
62) Tetrachloroethene	6.795	166	179033	53.17 ug/L	99
63) 1,3-Dichloropropane	6.972	76	224614	46.22 ug/L	87
64) Dibromochloromethane	7.186	129	170873	48.57 ug/L	96
65) 1,2-Dibromoethane	7.314	107	131961	43.96 ug/L	98
66) 1-Chlorohexane	7.785	91	215622	42.69 ug/L	94
67) Chlorobenzene	7.806	112	475493	48.01 ug/L	89
68) 1,1,1,2-Tetrachloroethane	7.908	131	177595	50.07 ug/L	99
69) Ethylbenzene	7.897	91	773462	45.62 ug/L	97
70) m,p-Xylene	8.020	106	650587	97.69 ug/L	87
71) o-Xylene	8.395	106	312461	46.31 ug/L	91
72) Xylene (Total)	8.020	106	965561m	141.14 ug/L	
73) Styrene	8.421	104	527143	47.01 ug/L	94
74) Bromoform	8.598	173	110599	50.69 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

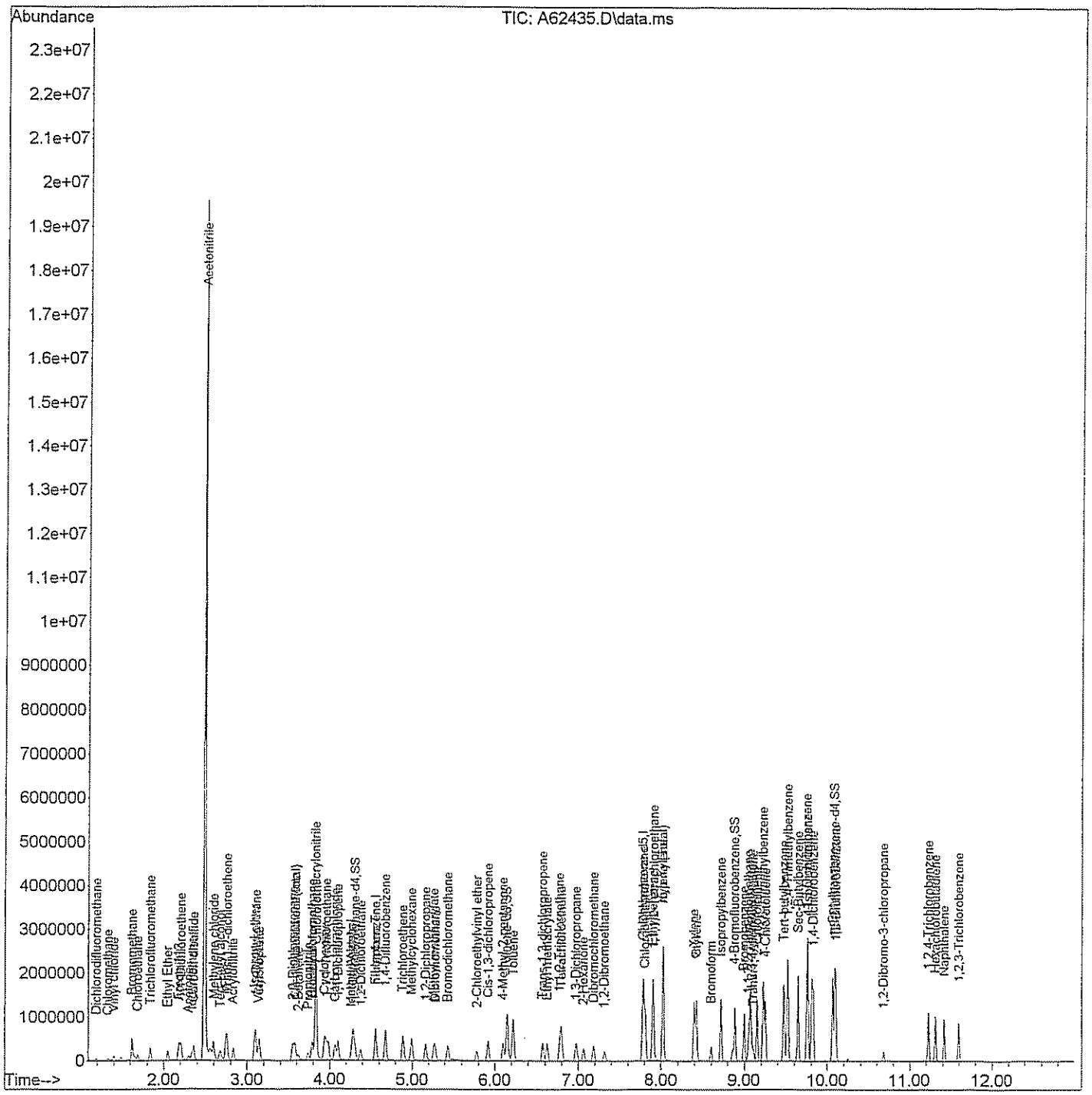
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.716	105	688169	47.96 ug/L	98
77) Bromobenzene	8.994	156	207337	52.78 ug/L	99
78) 1,1,2,2-Tetrachloroethane	9.047	83	171433	44.43 ug/L	97
79) 1,2,3-Trichloropropane	9.085	110	53719	46.87 ug/L	99
80) n-Propylbenzene	9.069	91	933016	46.98 ug/L	97
81) Trans-1,4-dichloro-2-b...	9.106	53	33421	34.72 ug/L #	25
82) 2-Chlorotoluene	9.149	126	209405	49.72 ug/L	88
83) 4-Chlorotoluene	9.251	126	222149	50.82 ug/L	78
84) 1,3,5-Trimethylbenzene	9.224	105	674070	47.81 ug/L	92
85) Tert-butylbenzene	9.470	119	615383	50.24 ug/L	94
87) 1,2,4-Trimethylbenzene	9.518	105	707624	48.31 ug/L	92
88) Sec-Butylbenzene	9.641	105	922436	49.13 ug/L	96
89) 1,3-Dichlorobenzene	9.748	146	431615	52.36 ug/L	99
90) 4-Isopropyltoluene	9.759	119	824842	51.67 ug/L	95
91) 1,4-Dichlorobenzene	9.823	146	430952	52.10 ug/L	99
93) 1,2-Dichlorobenzene	10.101	146	396917	50.41 ug/L	98
94) n-Butylbenzene	10.064	91	721328	45.78 ug/L	90
95) 1,2-Dibromo-3-chloropr...	10.679	75	28279	42.80 ug/L #	69
96) 1,2,4-Trichlorobenzene	11.225	180	244199	51.11 ug/L	99
97) Hexachlorobutadiene	11.305	225	118341	53.18 ug/L	97
98) Naphthalene	11.412	128	541601	47.56 ug/L	100
99) 1,2,3-Trichlorobenzene	11.599	180	208946	52.24 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

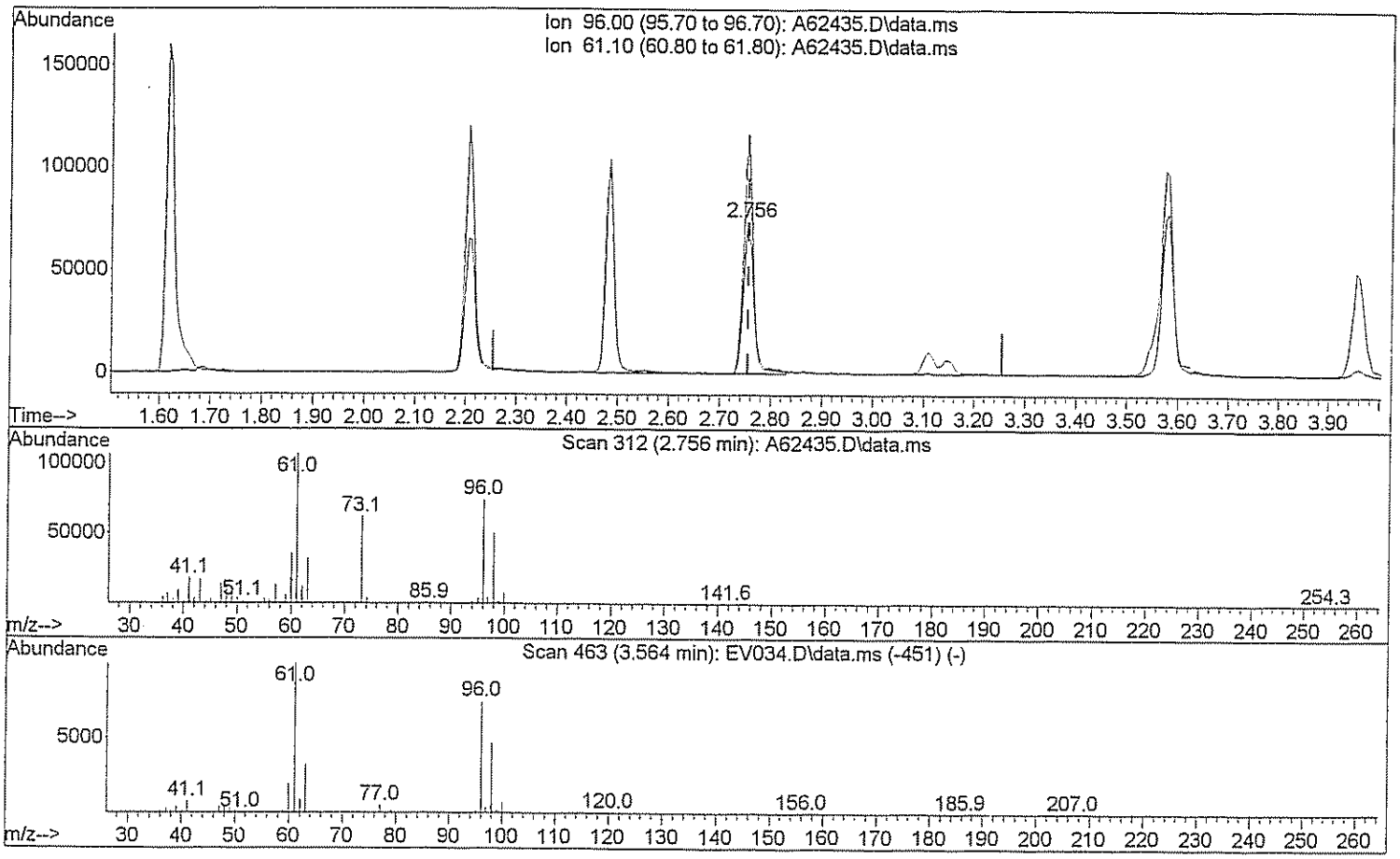
Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 12:56:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62435.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 34.72 ug/L

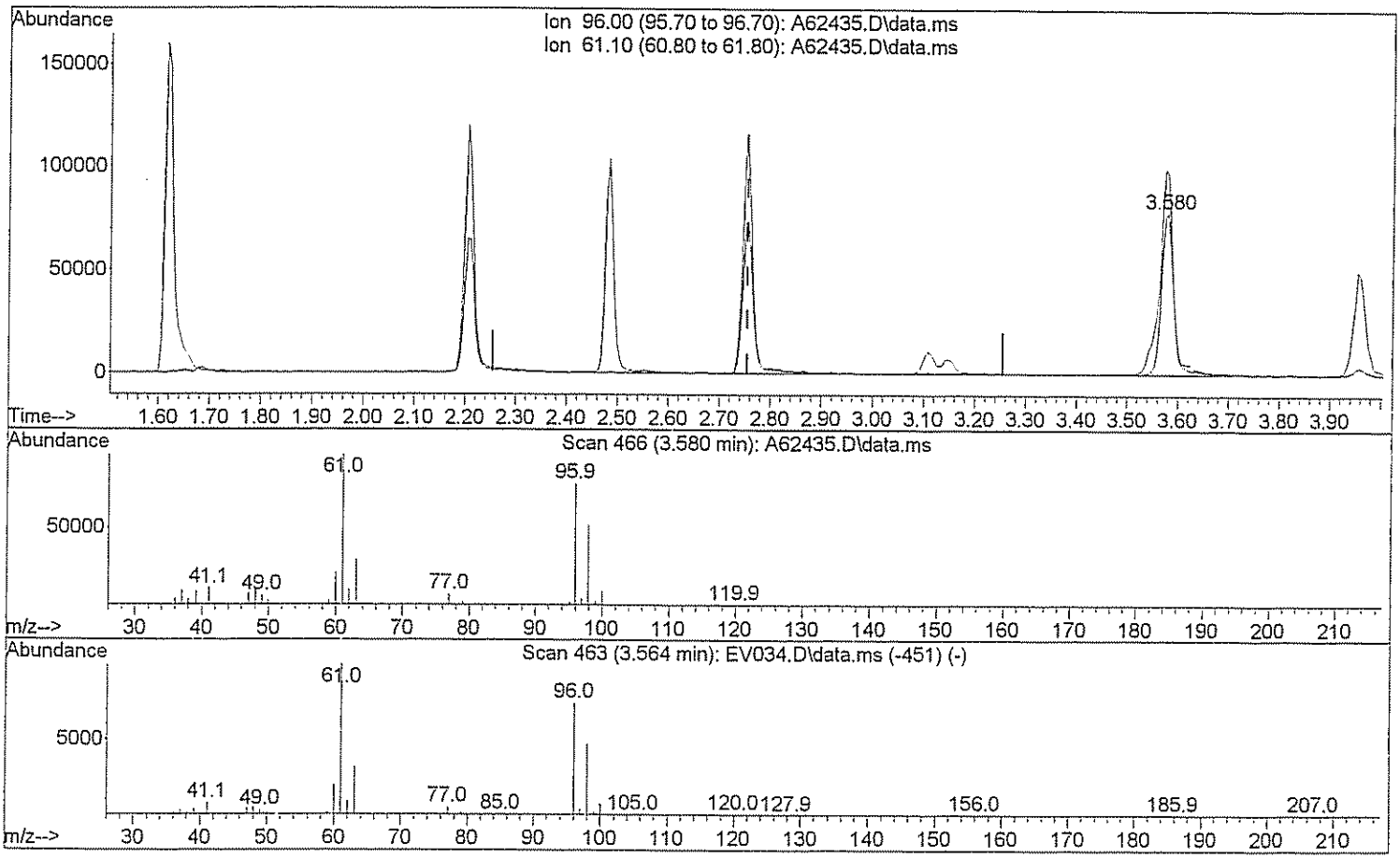
response 104775

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	147.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 12:56:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62435.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.824) 79.03 ug/L m SM 3/24/09

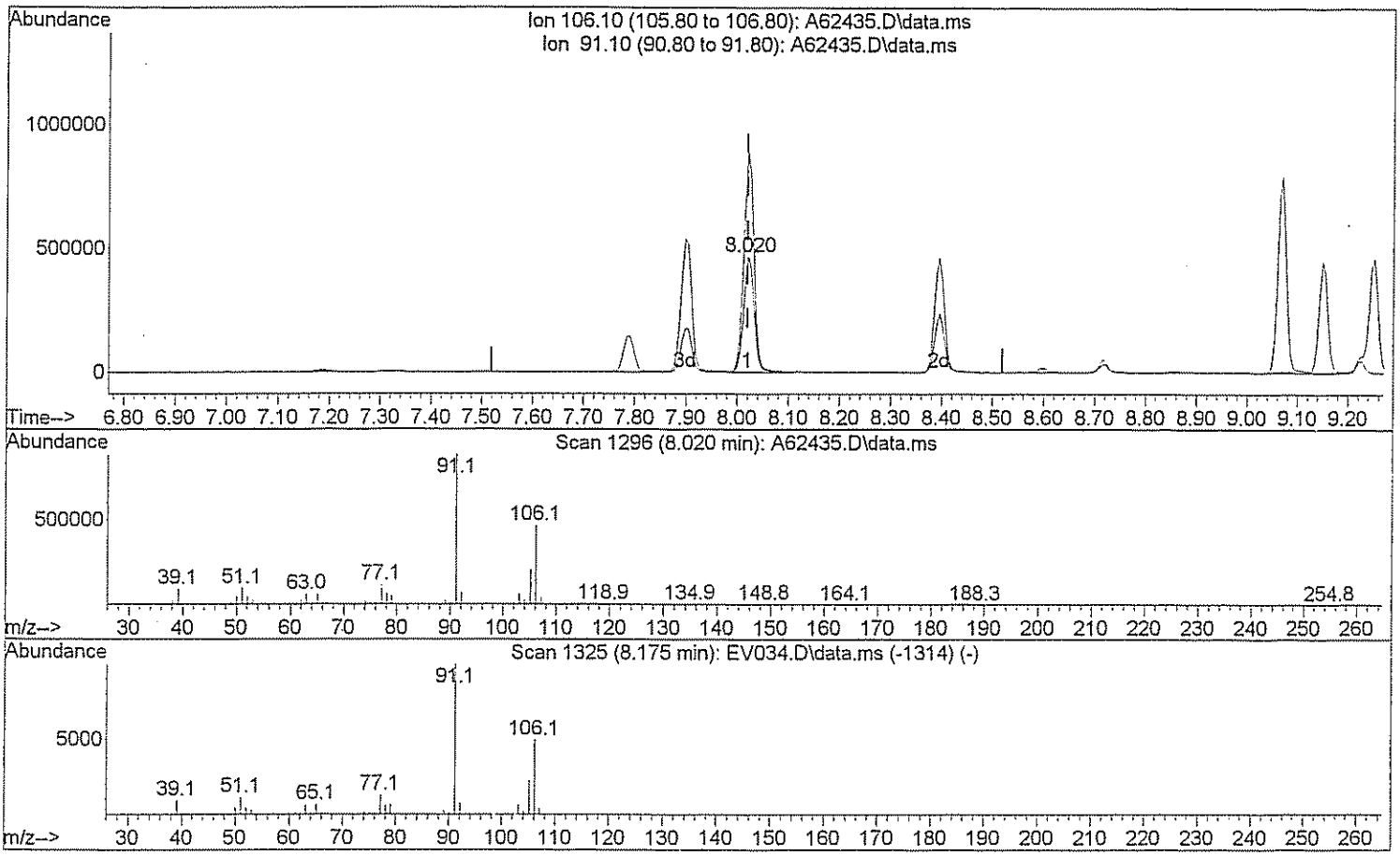
response 238536

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	64.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 12:56:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62435.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 95.10 ug/L

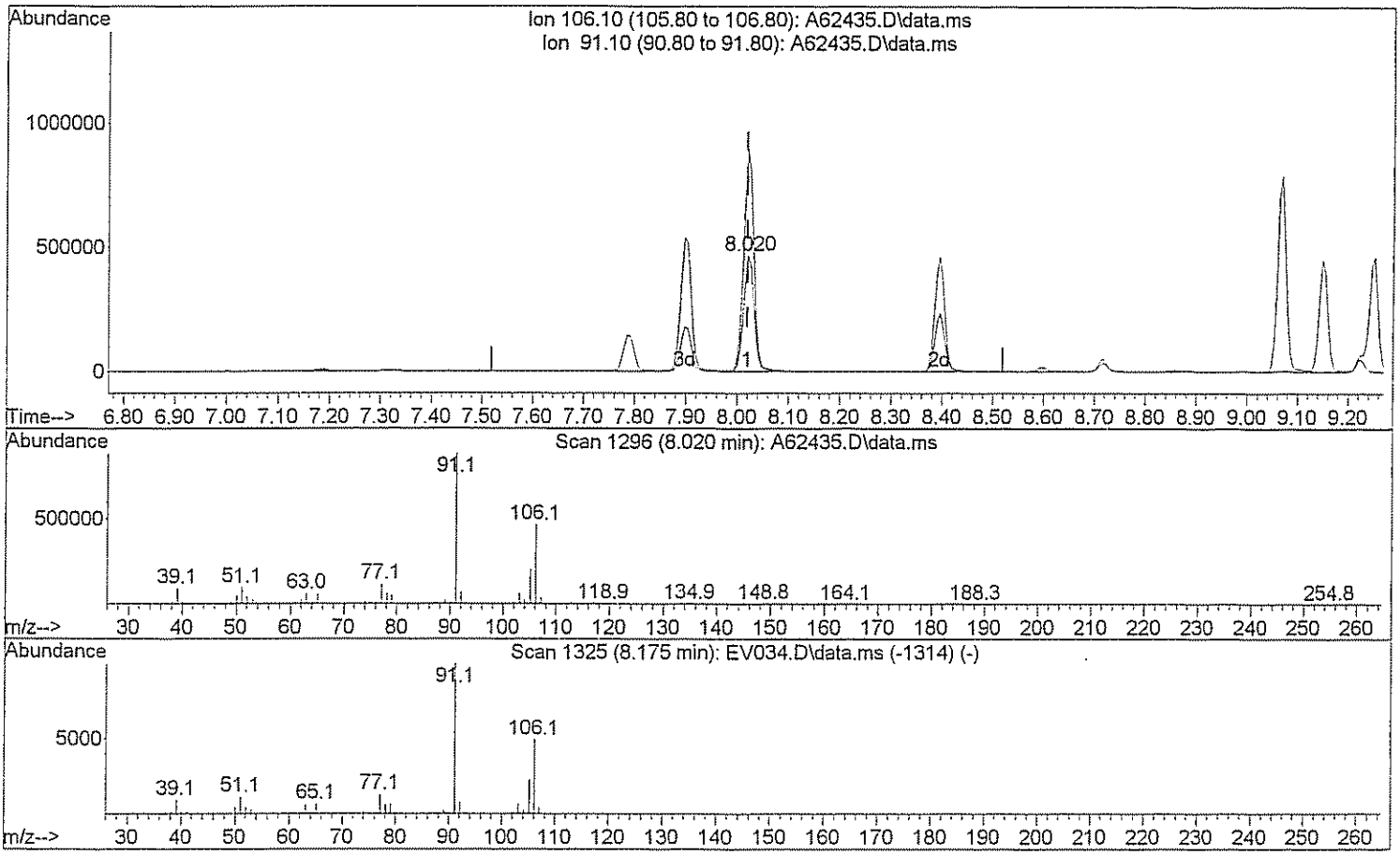
response 650587

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 12:56:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62435.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 141.14 ug/L m DN 3/24/09

response 965561

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	127.13#
0.00	0.00	0.00
0.00	0.00	0.00

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

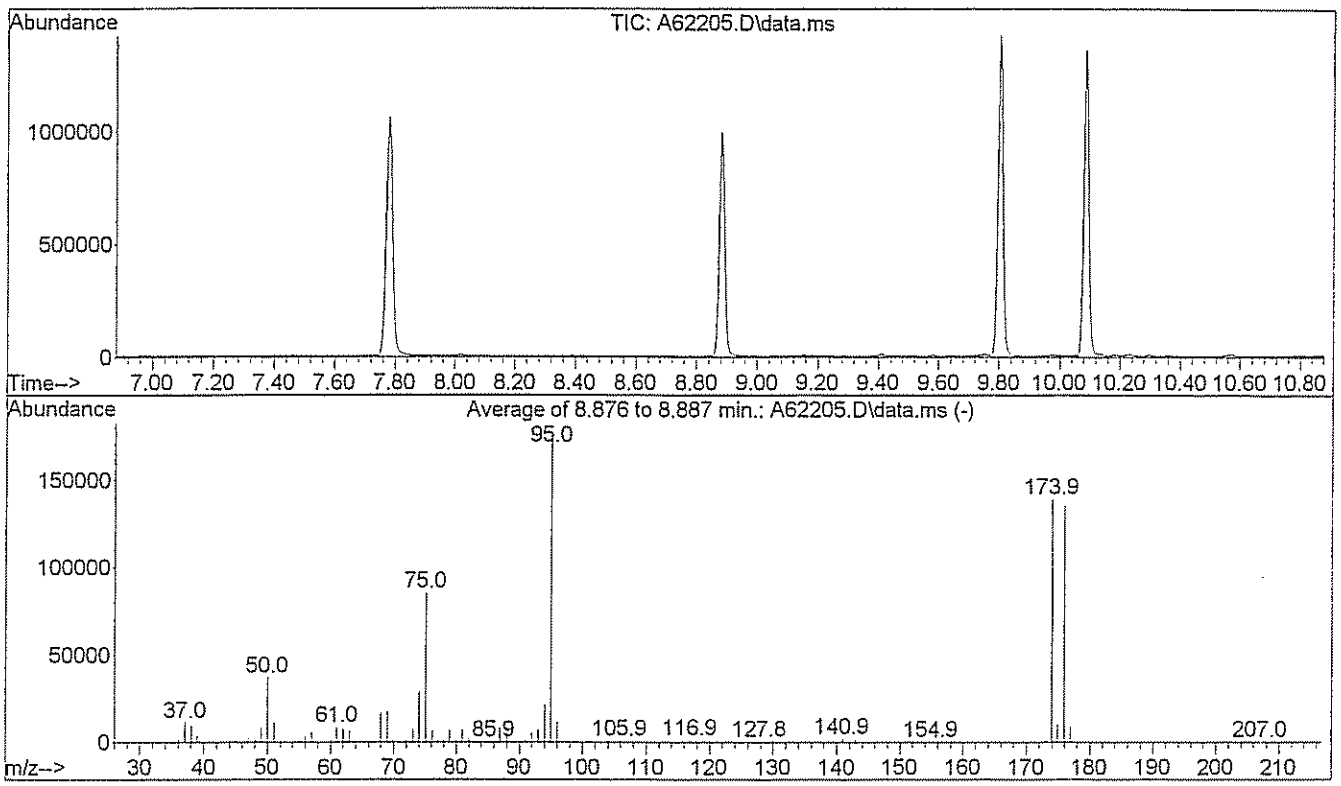
6. Injection Logsheet

7. Control Charts (where applicable)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62205.D
Acq On : 10 Mar 2009 7:35
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 07:32:19 2009



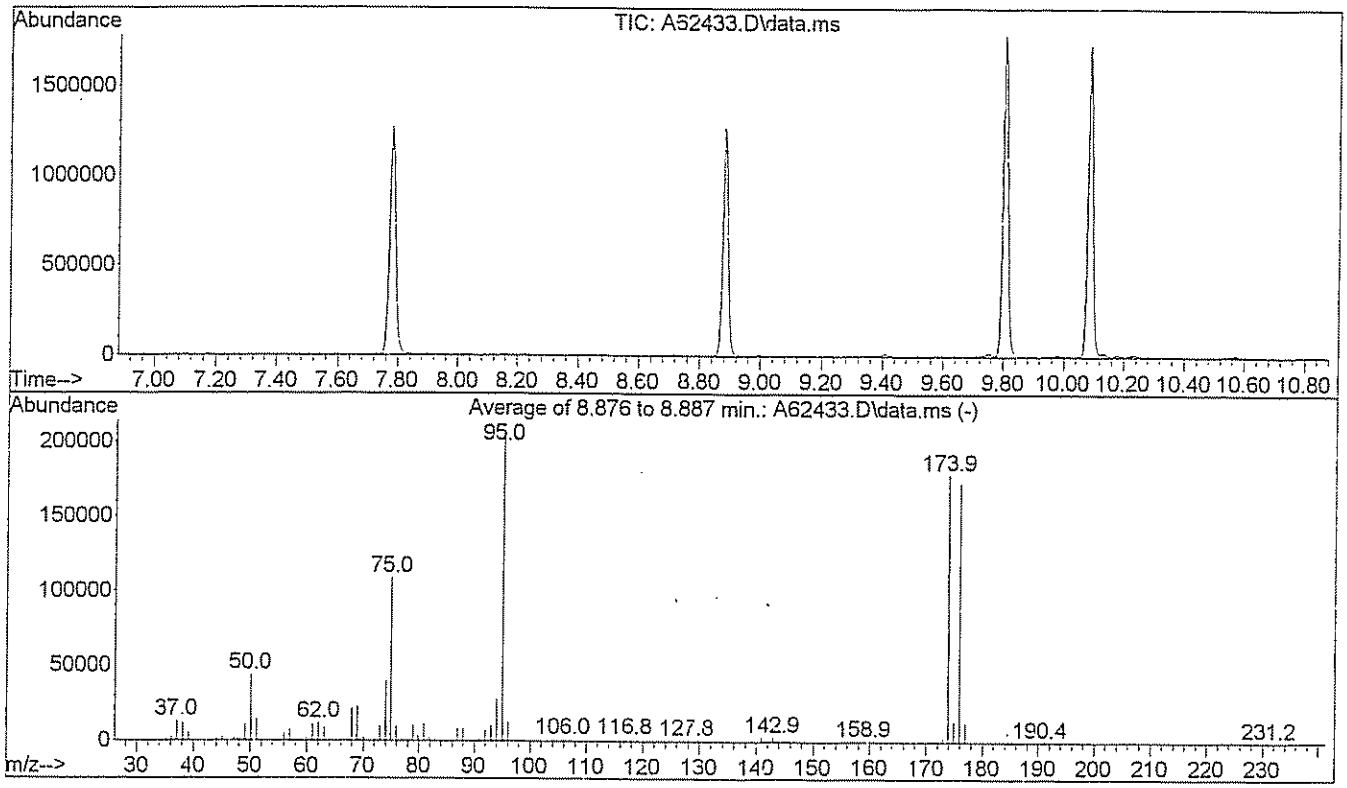
AutoFind: Scans 1456, 1457, 1458; Background Corrected with Scan 1448

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	36987	PASS
75	95	30	60	48.8	85267	PASS
95	95	100	100	100.0	174571	PASS
96	95	5	9	6.6	11522	PASS
173	174	0.00	2	0.8	1093	PASS
174	95	50	100	79.6	139005	PASS
175	174	5	9	7.4	10350	PASS
176	174	95	100	97.3	135299	PASS
177	176	5	9	6.5	8791	PASS

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62433.D
Acq On : 23 Mar 2009 11:28
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



Spectrum Information: Average of 8.876 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	43803	PASS
75	95	30	60	53.2	108611	PASS
95	95	100	100	100.0	204309	PASS
96	95	5	9	6.1	12509	PASS
173	174	0.00	2	1.4	2576	PASS
174	95	50	100	87.4	178491	PASS
175	174	5	9	7.8	13860	PASS
176	174	95	100	97.0	173179	PASS
177	176	5	9	7.1	12311	PASS

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108777
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108777
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108777
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62437.D
Acq On : 23 Mar 2009 13:26
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 18:35:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	493162	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	423226	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	486520	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	138852	53.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.00%			
54) Toluene-d8	6.142	98	579385	59.08	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 118.16%			
76) 4-Bromofluorobenzene	8.881	95	226429	49.37	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.74%			
92) 1,2-Dichlorobenzene-d4	10.085	152	238596	53.05	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 106.10%			

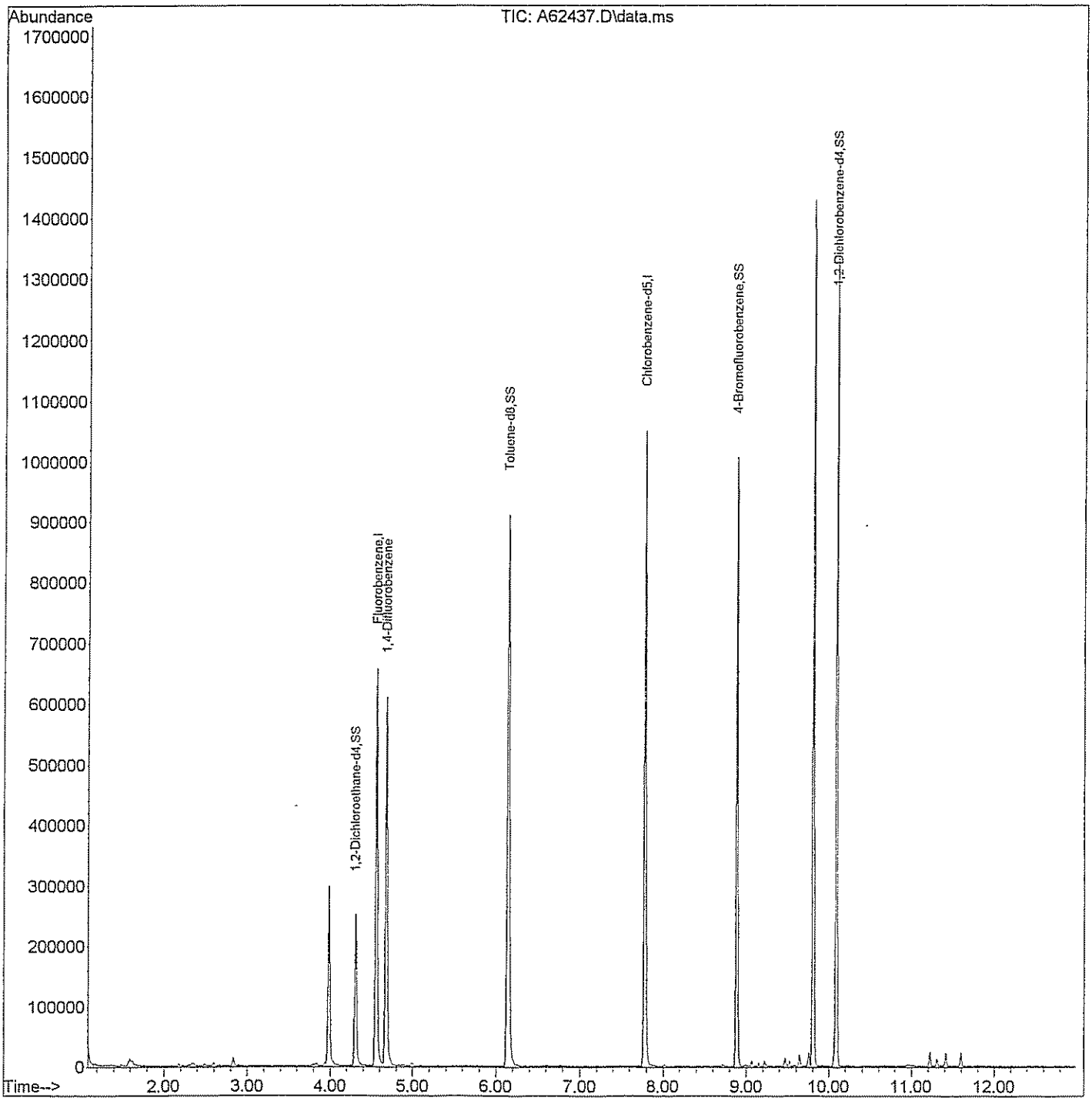
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62437.D
Acq On : 23 Mar 2009 13:26
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 18:35:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108777
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	57	
71-55-6	1,1,1-Trichloroethane	57	
79-34-5	1,1,2,2-Tetrachloroethane	50	
79-00-5	1,1,2-Trichloroethane	61	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	50	
87-61-6	1,2,3-Trichlorobenzene	61	
96-18-4	1,2,3-Trichloropropane	50	
120-82-1	1,2,4-Trichlorobenzene	60	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	50	
95-50-1	1,2-Dichlorobenzene	59	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	50	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	60	
142-28-9	1,3-Dichloropropane	50	
106-46-7	1,4-Dichlorobenzene	60	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	96	
95-49-8	2-Chlorotoluene	56	
591-78-6	2-Hexanone	91	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	92	
67-64-1	Acetone	92	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	60	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108777
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	62	
75-27-4	Bromodichloromethane	59	
75-25-2	Bromoform	58	
74-83-9	Bromomethane	120	
75-15-0	Carbon Disulfide	46	
56-23-5	Carbon Tetrachloride	62	
108-90-7	Chlorobenzene	52	
75-00-3	Chloroethane	86	
67-66-3	Chloroform	53	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	50	
124-48-1	Dibromochloromethane	53	
74-95-3	Dibromomethane	51	
75-71-8	Dichlorodifluoromethane	57	
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	64	
87-68-3	Hexachlorobutadiene	65	
98-82-8	Isopropylbenzene	53	
79-20-9	Methyl Acetate	44	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	48	
91-20-3	Naphthalene	55	
135-98-8	Sec-Butylbenzene	55	
100-42-5	Styrene	51	
127-18-4	Tetrachloroethylene	61	
108-88-3	Toluene	63	
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	64	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108777
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	43	
75-01-4	Vinyl Chloride	44	
156-59-2	cis-1,2-Dichloroethene	48	
10061-01-5	cis-1,3-Dichloropropene	61	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	53	
103-65-1	n-Propylbenzene	52	
95-47-6	o-Xylene	51	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	59	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 18:36:35 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	493685	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	438839	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	521407	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	145406	55.44	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 110.88%				
54) Toluene-d8	6.142	98	620382	61.01	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 122.02%#				
76) 4-Bromofluorobenzene	8.881	95	251372	51.15	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 102.30%				
92) 1,2-Dichlorobenzene-d4	10.090	152	278781	57.83	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	49691	56.81	ug/L		95
3) Chloromethane	1.333	50	80096	46.54	ug/L		93
4) Vinyl chloride	1.392	62	89648	43.88	ug/L		99
5) Bromomethane	1.616	94	157016	124.16	ug/L		96
6) Chloroethane	1.686	64	123644	86.21	ug/L		98
7) Trichlorofluoromethane	1.836	101	190037	63.69	ug/L		99
8) Ethyl Ether	2.044	59	91291	51.99	ug/L		94
9) Freon 113	2.178	101	99884	63.93	ug/L		95
10) Acrolein	2.189	56	78015	220.94	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	202062	1008.46	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	94178	52.52	ug/L		92
13) Iodomethane	2.333	142	135343	64.90	ug/L		96
14) Acetonitrile	2.483	40	892074	676.42	ug/L	#	1
15) Methylene chloride	2.590	84	110420	47.58	ug/L		95
16) Trans-1,2-dichloroethene	2.756	96	106196	51.57	ug/L		87
17) Isopropyl ether	3.093	45	416255	51.95	ug/L		95
18) 1,1-Dichloroethane	3.109	63	211105	57.19	ug/L		99
19) Acetone	2.296	43	78065	92.56	ug/L		90
20) Methyl Acetate	4.259	43	107322	43.66	ug/L	#	100
21) MTBE	2.740	73	305569	56.82	ug/L		100
22) Carbon disulfide	2.355	76	283619	45.57	ug/L		100
24) Acrylonitrile	2.831	53	166530	266.61	ug/L		98
25) Chloroprene	3.146	53	174333	49.45	ug/L		92
26) n-Heptane	4.559	71	3387	1.88	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	166915	54.05	ug/L	#	72
28) Cis-1,2-dichloroethene	3.580	96	120506	48.22	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 18:36:35 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	234899m	88.79	ug/L		
30) Propionitrile	3.735	54	153456	497.54	ug/L		98
31) Bromochloromethane	3.783	128	66321	61.51	ug/L		81
32) Tetrahydrofuran	3.783	72	25876	51.10	ug/L	#	1
33) Chloroform	3.836	83	223912	53.20	ug/L		100
34) Cyclohexane	3.933	56	185363	50.46	ug/L		90
35) 1,1,1-Trichloroethane	3.959	97	178365	56.78	ug/L		98
36) Carbon tetrachloride	4.061	117	166885	62.06	ug/L		99
37) Methacrylonitrile	3.826	41	901109	536.91	ug/L	#	19
38) Methylcyclohexane	4.992	83	181947	54.48	ug/L		92
39) Isobutyl Alcohol	4.259	43	107322	733.22	ug/L		94
42) 2-Butanone	3.612	43	136851	95.60	ug/L		94
43) 1,1-Dichloropropene	4.099	75	148445	49.90	ug/L		99
44) Vinyl Acetate	3.136	43	143001	42.73	ug/L		99
45) Benzene	4.280	78	446179	48.04	ug/L		100
46) 1,2-Dichloroethane	4.377	62	147732m	50.73	ug/L		
47) Trichloroethene	4.885	95	116208	48.72	ug/L		80
48) 1,2-Dichloropropane	5.163	63	119585	50.25	ug/L		100
49) Methyl methacrylate	5.265	69	76475	44.37	ug/L		96
50) Dibromomethane	5.281	93	74781	51.08	ug/L		97
51) Bromodichloromethane	5.431	83	183276	58.99	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	110039	116.13	ug/L		98
53) Cis-1,3-dichloropropene	5.918	75	227742	60.82	ug/L		100
55) Toluene	6.217	92	384144	63.10	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	201406	59.37	ug/L		97
57) Ethyl methacrylate	6.624	69	187828	61.66	ug/L		99
58) 1,1,2-Trichloroethane	6.773	83	112107	61.37	ug/L		94
60) 4-Methyl-2-pentanone	6.094	43	278628	91.64	ug/L		97
61) 2-Hexanone	7.068	43	199903	91.08	ug/L		98
62) Tetrachloroethene	6.795	166	183464	61.04	ug/L		98
63) 1,3-Dichloropropane	6.971	76	218238	50.31	ug/L		86
64) Dibromochloromethane	7.185	129	166919	53.15	ug/L		98
65) 1,2-Dibromoethane	7.314	107	132466	49.43	ug/L		99
66) 1-Chlorohexane	7.785	91	208889	46.33	ug/L		95
67) Chlorobenzene	7.811	112	462312	52.30	ug/L		90
68) 1,1,1,2-Tetrachloroethane	7.908	131	179980	56.84	ug/L		100
69) Ethylbenzene	7.897	91	757045	50.02	ug/L		98
70) m,p-Xylene	8.020	106	636236	107.03	ug/L		86
71) o-Xylene	8.394	106	305759	50.76	ug/L		92
72) Xylene (Total)	8.020	106	944494m	154.66	ug/L		
73) Styrene	8.421	104	513192	51.27	ug/L		93
74) Bromoform	8.598	173	113936	58.50	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 18:36:35 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

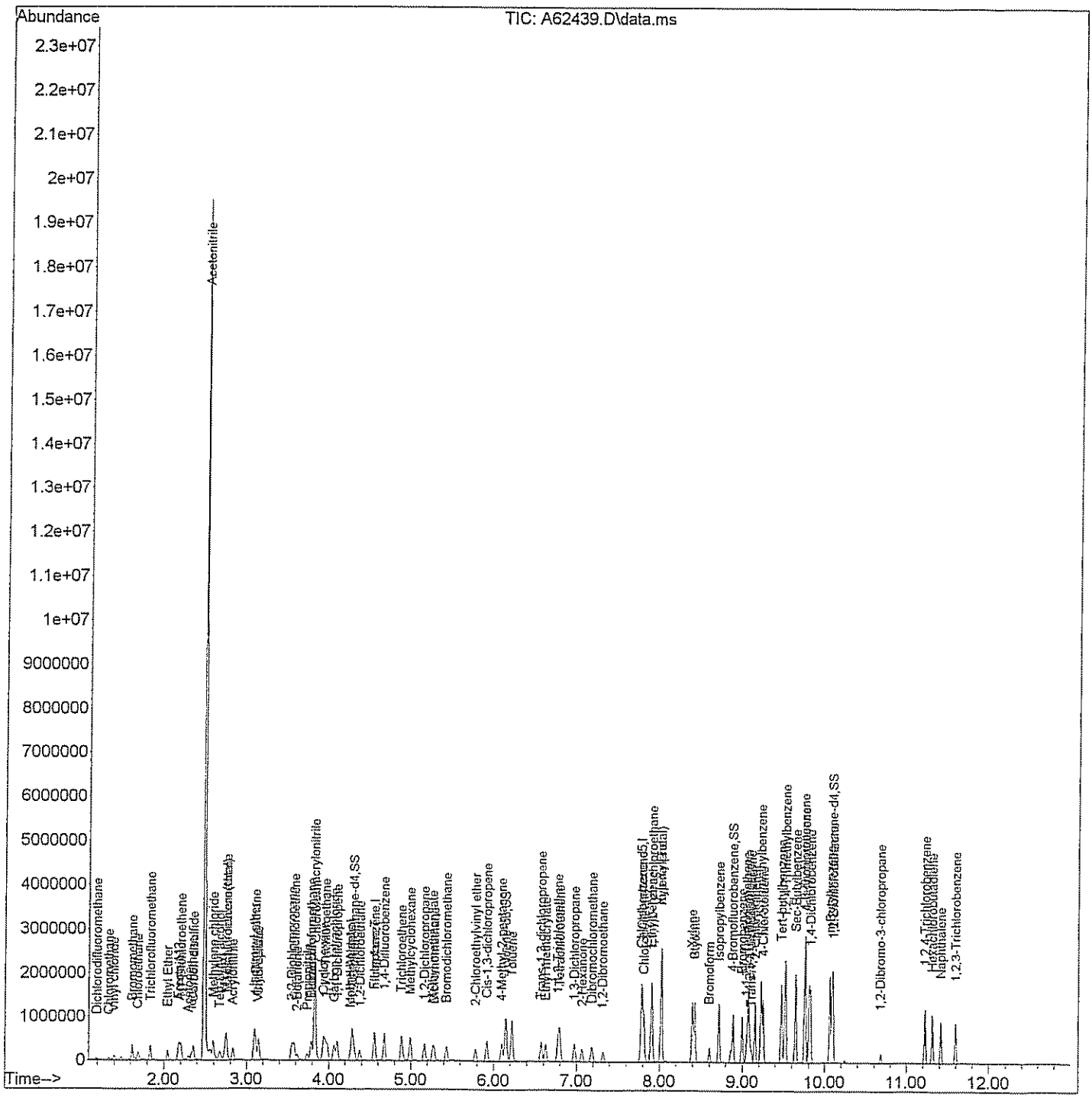
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	683654	53.37	ug/L		98
77) Bromobenzene	8.994	156	209126	59.63	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	172037	49.95	ug/L		97
79) 1,2,3-Trichloropropane	9.085	110	51307	50.15	ug/L		95
80) n-Propylbenzene	9.068	91	919840	51.88	ug/L		95
81) Trans-1,4-dichloro-2-b...	9.106	53	35487	41.49	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	209072	55.61	ug/L		87
83) 4-Chlorotoluene	9.250	126	217715	55.79	ug/L		81
84) 1,3,5-Trimethylbenzene	9.224	105	679359	53.98	ug/L		93
85) Tert-butylbenzene	9.470	119	608935	55.69	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	702045	53.70	ug/L		91
88) Sec-Butylbenzene	9.641	105	929877	55.48	ug/L		95
89) 1,3-Dichlorobenzene	9.748	146	438520	59.59	ug/L		100
90) 4-Isopropyltoluene	9.759	119	840936	59.01	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	445812	60.38	ug/L		100
93) 1,2-Dichlorobenzene	10.101	146	412871	58.74	ug/L		97
94) n-Butylbenzene	10.064	91	741237	52.70	ug/L	#	90
95) 1,2-Dibromo-3-chloropr...	10.679	75	29226	49.55	ug/L	#	72
96) 1,2,4-Trichlorobenzene	11.224	180	258015	60.50	ug/L		99
97) Hexachlorobutadiene	11.305	225	128367	64.63	ug/L		98
98) Naphthalene	11.412	128	558889	54.99	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	218824	61.28	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

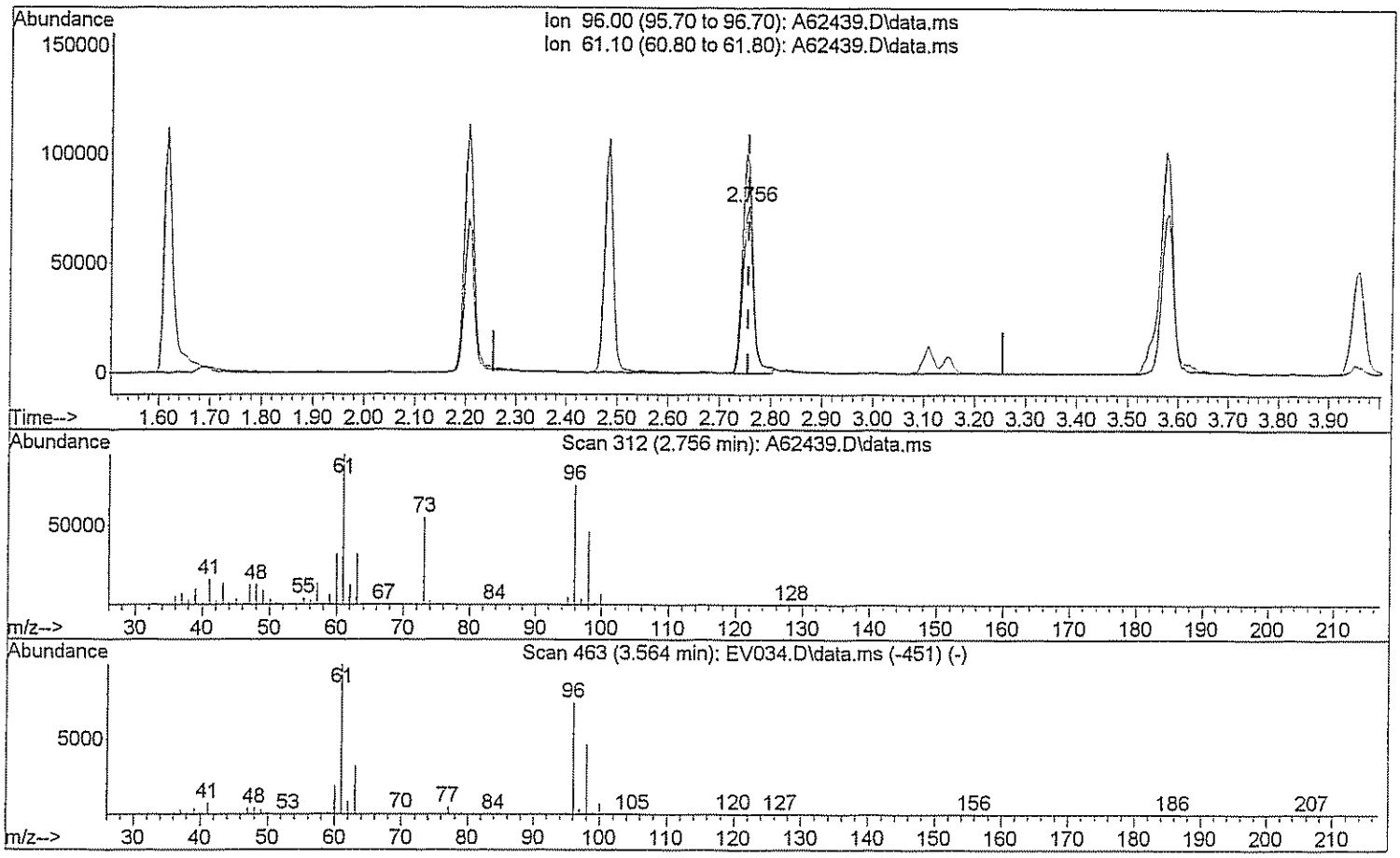
Quant Time: Mar 24 18:36:35 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 40.14 ug/L

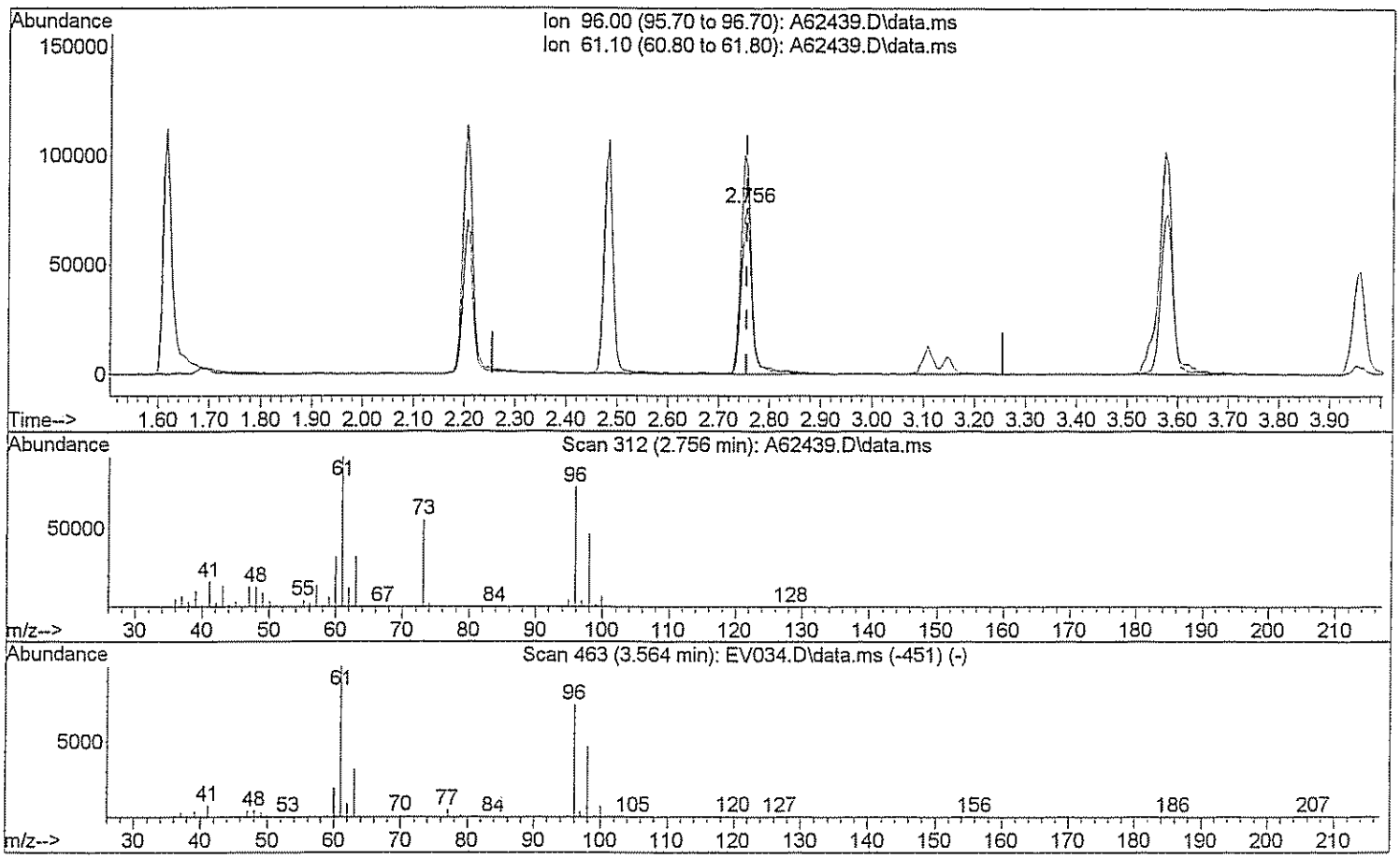
response 106196

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	138.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 88.79 ug/L m Am 3/24/09

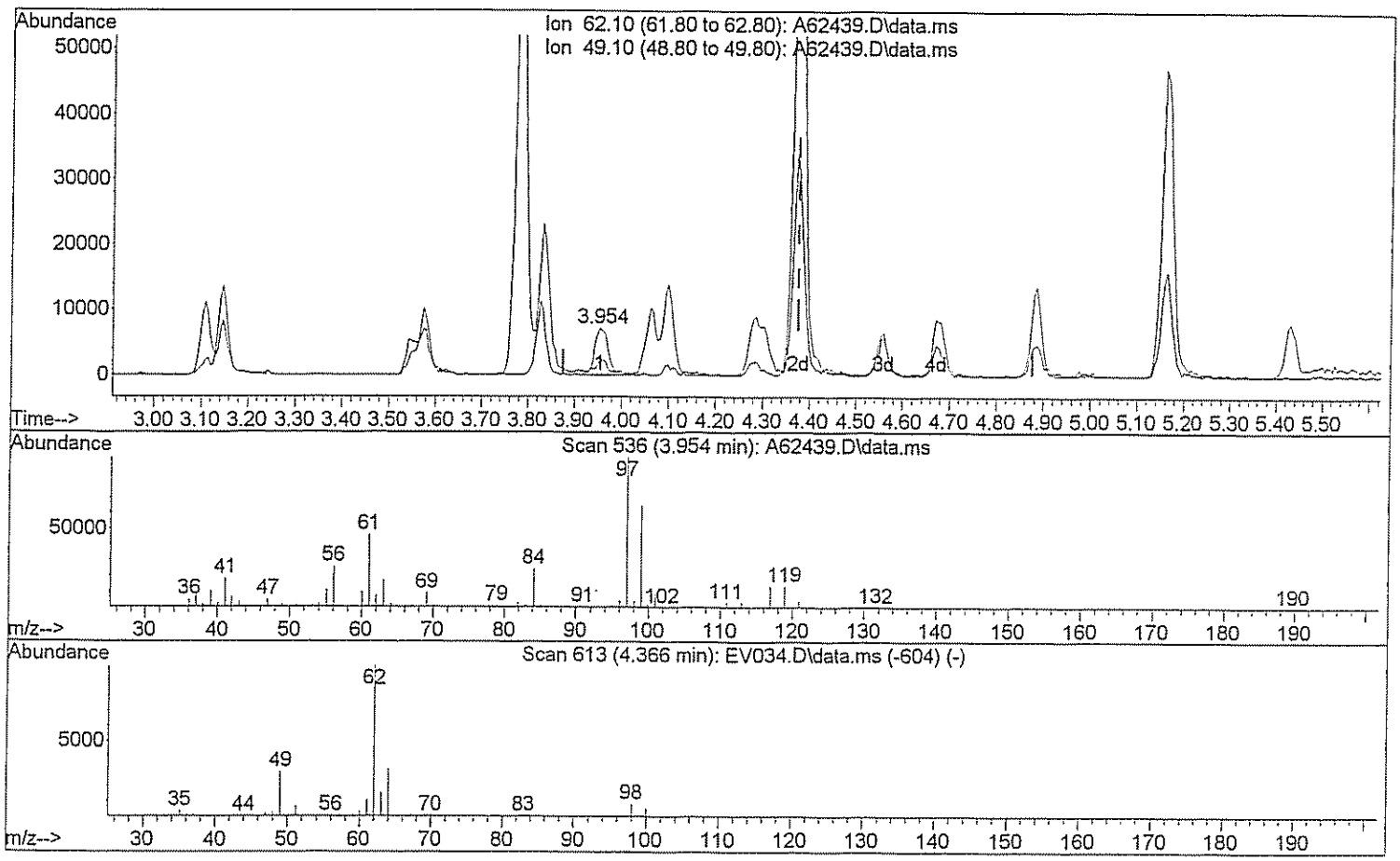
response 234899

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	62.53#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(46) 1,2-Dichloroethane

3.954min (-0.423) 4.91 ug/L

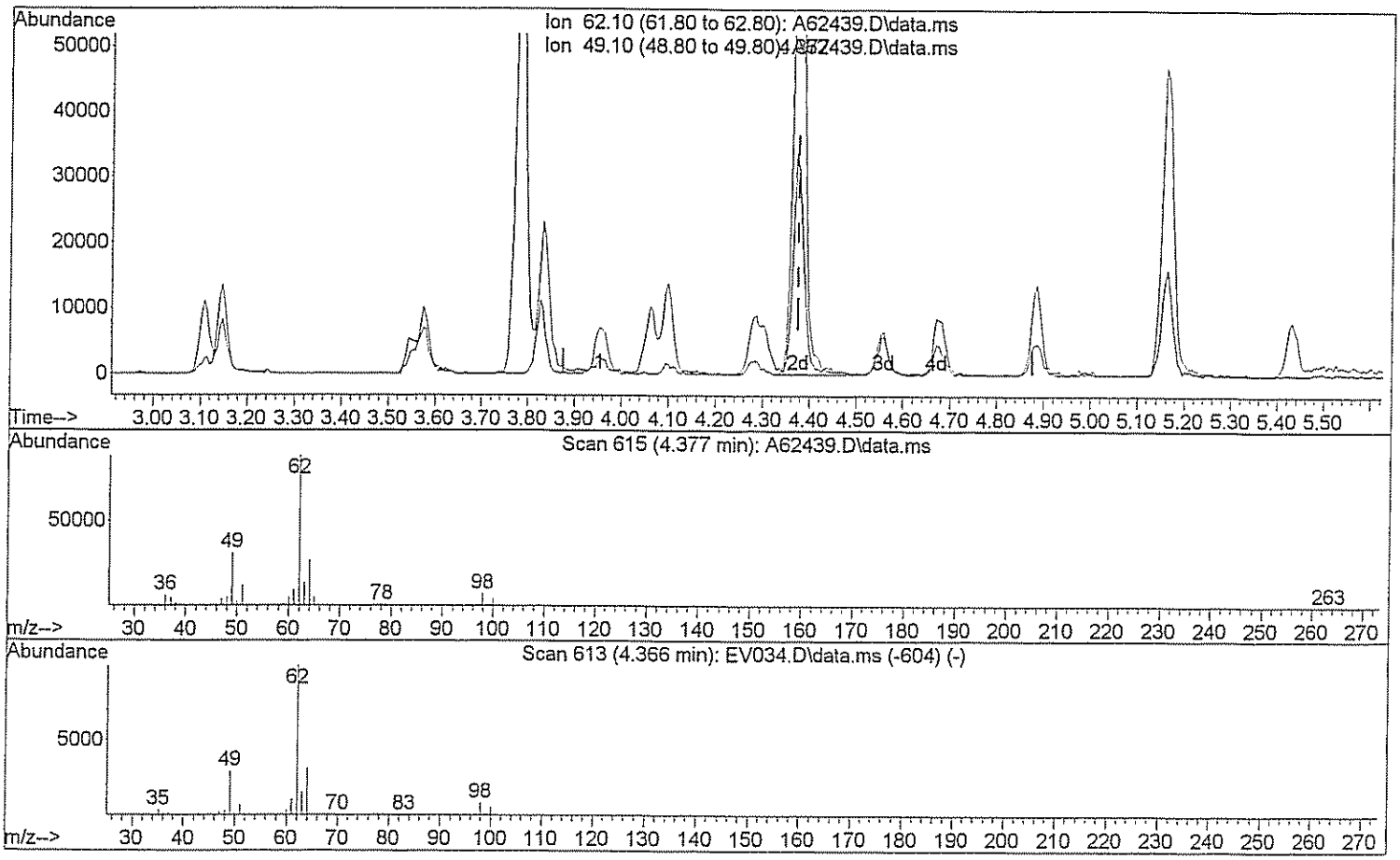
response 14286

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	30.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(46) 1,2-Dichloroethane

4.377min (+0.000) 50.73 ug/L m 3/24/09

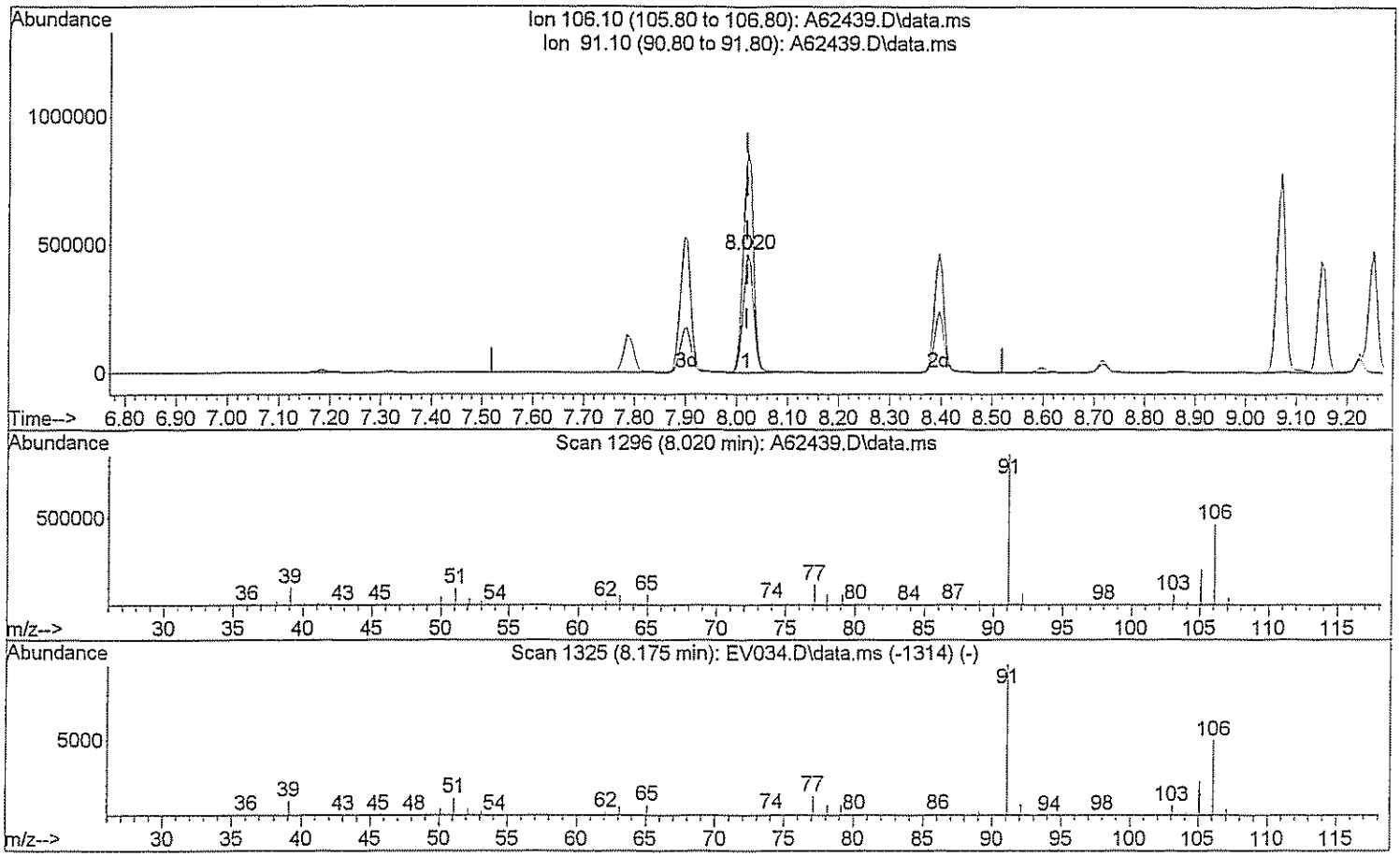
response 147732

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.92#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 104.19 ug/L

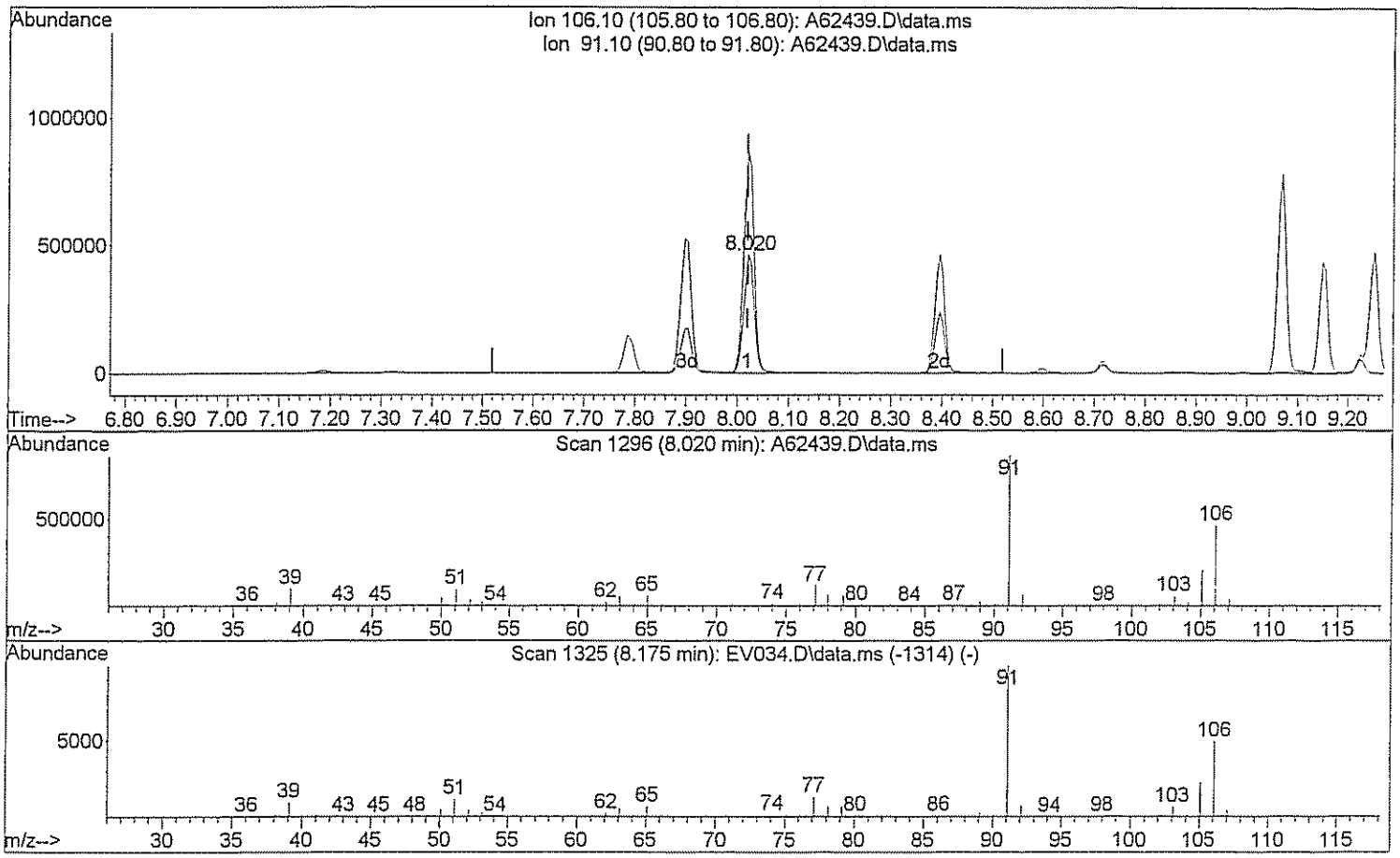
response 636236

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	187.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 154.66 ug/L m Dw 3/24/09

response 944494

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.19#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108777
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	56	
71-55-6	1,1,1-Trichloroethane	56	
79-34-5	1,1,2,2-Tetrachloroethane	53	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	56	
75-35-4	1,1-Dichloroethene	50	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	60	
96-18-4	1,2,3-Trichloropropane	56	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	53	
96-12-8	1,2-Dibromo-3-Chloropropane	57	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	50	
78-87-5	1,2-Dichloropropane	51	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	60	
142-28-9	1,3-Dichloropropane	52	
106-46-7	1,4-Dichlorobenzene	60	
594-20-7	2,2-Dichloropropane	52	
78-93-3	2-Butanone	99	
95-49-8	2-Chlorotoluene	55	
591-78-6	2-Hexanone	96	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	98	
67-64-1	Acetone	86	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108777
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	65	
75-27-4	Bromodichloromethane	49	
75-25-2	Bromoform	60	
74-83-9	Bromomethane	140	
75-15-0	Carbon Disulfide	44	
56-23-5	Carbon Tetrachloride	61	
108-90-7	Chlorobenzene	53	
75-00-3	Chloroethane	90	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	48	
110-82-7	Cyclohexane	51	
124-48-1	Dibromochloromethane	52	
74-95-3	Dibromomethane	50	
75-71-8	Dichlorodifluoromethane	50	
100-41-4	Ethylbenzene	49	
106-93-4	Ethylene DiBromide	50	
76-13-1	Freon 113	61	
87-68-3	Hexachlorobutadiene	59	
98-82-8	Isopropylbenzene	53	
79-20-9	Methyl Acetate	56	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	45	
91-20-3	Naphthalene	60	
135-98-8	Sec-Butylbenzene	54	
100-42-5	Styrene	51	
127-18-4	Tetrachloroethylene	58	
108-88-3	Toluene	63	
79-01-6	Trichloroethene	48	
75-69-4	Trichlorofluoromethane	51	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108777

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903062
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108777
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	42	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	49	
10061-01-5	cis-1,3-Dichloropropene	61	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	51	
103-65-1	n-Propylbenzene	51	
95-47-6	o-Xylene	51	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	58	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	61	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 18:57:45 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	456708	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	404890	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	484072	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	131372	54.15	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 108.30%				
54) Toluene-d8	6.142	98	563665	60.08	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 120.16%#				
76) 4-Bromofluorobenzene	8.881	95	228057	49.98	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.96%				
92) 1,2-Dichlorobenzene-d4	10.085	152	266233	59.49	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	40219	49.70	ug/L		93
3) Chloromethane	1.338	50	77086m	48.42	ug/L		
4) Vinyl chloride	1.392	62	82130	43.46	ug/L		95
5) Bromomethane	1.616	94	173171	138.44	ug/L		93
6) Chloroethane	1.681	64	119584	90.13	ug/L		94
7) Trichlorofluoromethane	1.830	101	139811	50.93	ug/L		97
8) Ethyl Ether	2.044	59	83873	51.63	ug/L		96
9) Freon 113	2.173	101	88417	61.18	ug/L		89
10) Acrolein	2.189	56	77240	236.46	ug/L	#	74
11) Tert-Butyl alcohol	2.676	59	222525	1200.51	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	83536	50.36	ug/L		91
13) Iodomethane	2.328	142	56110	29.08	ug/L		92
14) Acetonitrile	2.478	40	800370	657.02	ug/L	#	1
15) Methylene chloride	2.590	84	96796	45.17	ug/L		95
16) Trans-1,2-dichloroethene	2.750	96	99660	52.31	ug/L		84
17) Isopropyl ether	3.093	45	386912	52.19	ug/L		100
18) 1,1-Dichloroethane	3.109	63	191747	56.15	ug/L		96
19) Acetone	2.296	43	67404	86.46	ug/L		95
20) Methyl Acetate	4.259	43	120309	55.81	ug/L	#	100
21) MTBE	2.740	73	289951	58.29	ug/L		100
22) Carbon disulfide	2.349	76	256339	44.54	ug/L		100
24) Acrylonitrile	2.831	53	170980	295.89	ug/L		96
25) Chloroprene	3.146	53	156617	48.02	ug/L		89
26) n-Heptane	4.559	71	3786	2.27	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	147687	51.70	ug/L	#	66
28) Cis-1,2-dichloroethene	3.574	96	113895	49.26	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 18:57:45 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	218980m	89.47	ug/L		
30) Propionitrile	3.735	54	157760	552.90	ug/L		100
31) Bromochloromethane	3.778	128	64607	64.77	ug/L	#	73
32) Tetrahydrofuran	3.788	72	26405	56.37	ug/L	#	22
33) Chloroform	3.836	83	208667	53.59	ug/L		99
34) Cyclohexane	3.933	56	172782	50.85	ug/L		92
35) 1,1,1-Trichloroethane	3.954	97	163505	56.27	ug/L		96
36) Carbon tetrachloride	4.061	117	152119	61.15	ug/L		100
37) Methacrylonitrile	3.826	41	894052	575.83	ug/L	#	17
38) Methylcyclohexane	4.992	83	167394	54.18	ug/L		91
39) Isobutyl Alcohol	4.259	43	120309	888.50	ug/L		95
42) 2-Butanone	3.612	43	130335	98.68	ug/L		94
43) 1,1-Dichloropropene	4.093	75	139166	50.70	ug/L		99
44) Vinyl Acetate	3.136	43	128280	41.54	ug/L		98
45) Benzene	4.280	78	410316	47.88	ug/L		100
46) 1,2-Dichloroethane	4.371	62	135213	50.33	ug/L	#	83
47) Trichloroethene	4.880	95	105487	47.93	ug/L	#	77
48) 1,2-Dichloropropane	5.158	63	112059	51.03	ug/L		96
49) Methyl methacrylate	5.259	69	75870	47.71	ug/L		99
50) Dibromomethane	5.276	93	67990	50.34	ug/L		99
51) Bromodichloromethane	5.431	83	139870	48.79	ug/L	#	99
52) 2-Chloroethylvinyl ether	5.778	63	304397	348.17	ug/L		95
53) Cis-1,3-dichloropropene	5.912	75	210664	60.98	ug/L		100
55) Toluene	6.217	92	353447	62.92	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	191744	61.26	ug/L		97
57) Ethyl methacrylate	6.618	69	176323	62.74	ug/L		99
58) 1,1,2-Trichloroethane	6.768	83	105310	62.48	ug/L		89
60) 4-Methyl-2-pentanone	6.094	43	275442	97.57	ug/L		97
61) 2-Hexanone	7.062	43	194992	95.69	ug/L		99
62) Tetrachloroethene	6.795	166	163136	58.46	ug/L		100
63) 1,3-Dichloropropane	6.971	76	207509	51.53	ug/L		86
64) Dibromochloromethane	7.185	129	152524	52.31	ug/L		99
65) 1,2-Dibromoethane	7.319	107	123782	49.75	ug/L		97
66) 1-Chlorohexane	7.785	91	192620	46.02	ug/L		95
67) Chlorobenzene	7.806	112	432591	52.71	ug/L		91
68) 1,1,1,2-Tetrachloroethane	7.908	131	166154	56.52	ug/L		97
69) Ethylbenzene	7.897	91	692396	49.28	ug/L		98
70) m,p-Xylene	8.020	106	588765	106.68	ug/L		87
71) o-Xylene	8.394	106	283313	50.66	ug/L		90
72) Xylene (Total)	8.020	106	872755m	153.94	ug/L		
73) Styrene	8.421	104	474227	51.03	ug/L		92
74) Bromoform	8.598	173	107908	59.68	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 18:57:45 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

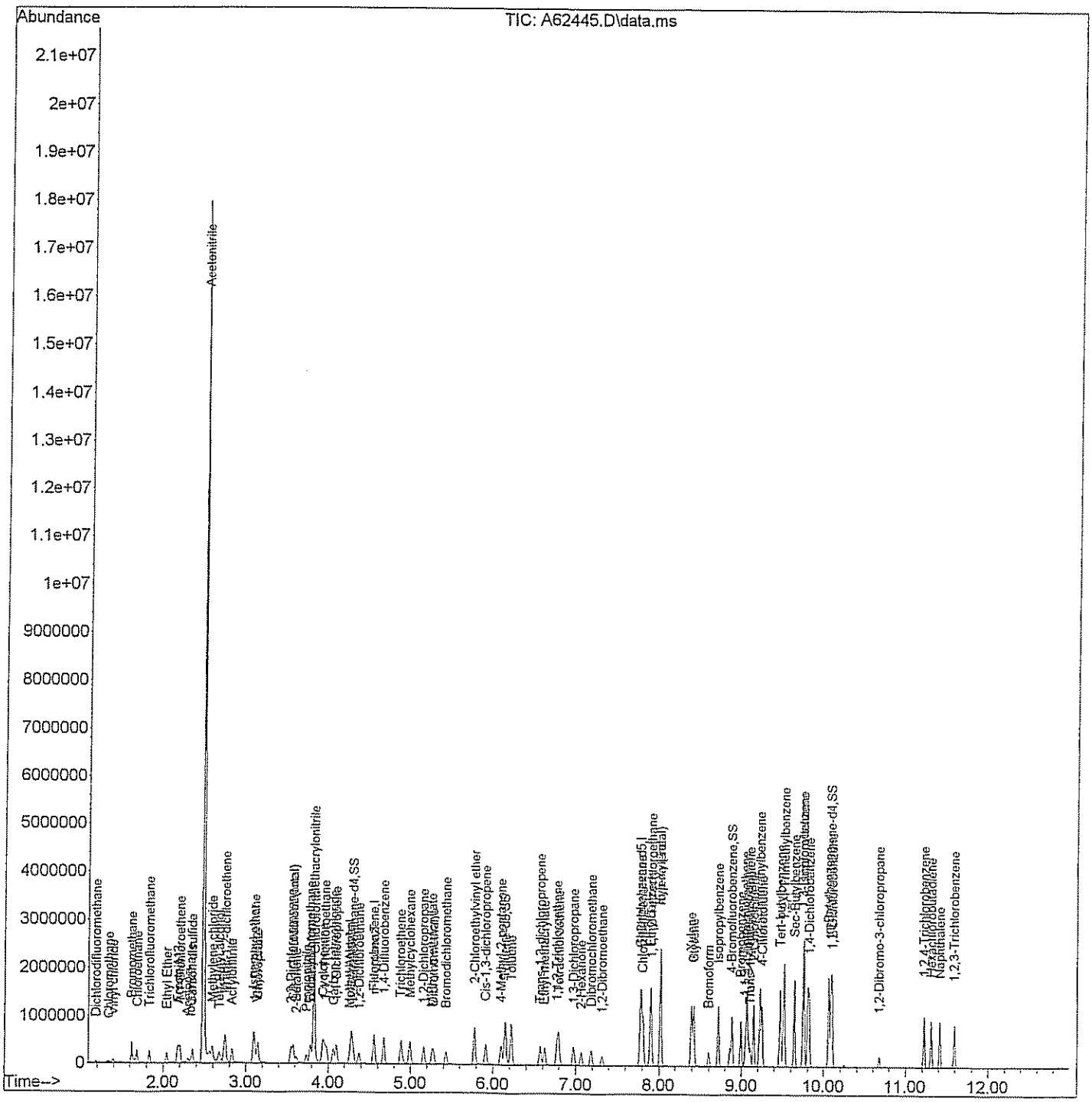
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	627806	52.79 ug/L	100
77) Bromobenzene	8.994	156	193882	59.55 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	168211	52.61 ug/L	96
79) 1,2,3-Trichloropropane	9.085	110	52774	55.56 ug/L	94
80) n-Propylbenzene	9.068	91	846738	51.44 ug/L	96
81) Trans-1,4-dichloro-2-b...	9.106	53	51624	65.12 ug/L #	1
82) 2-Chlorotoluene	9.149	126	193599	55.46 ug/L	88
83) 4-Chlorotoluene	9.250	126	202968	56.02 ug/L	77
84) 1,3,5-Trimethylbenzene	9.224	105	626386	53.61 ug/L	93
85) Tert-butylbenzene	9.470	119	569225	56.07 ug/L	94
87) 1,2,4-Trimethylbenzene	9.518	105	648230	53.41 ug/L	91
88) Sec-Butylbenzene	9.641	105	848218	54.52 ug/L	94
89) 1,3-Dichlorobenzene	9.748	146	410893	60.14 ug/L	98
90) 4-Isopropyltoluene	9.753	119	779531	58.92 ug/L	94
91) 1,4-Dichlorobenzene	9.823	146	408624	59.61 ug/L	97
93) 1,2-Dichlorobenzene	10.101	146	377927	57.92 ug/L	97
94) n-Butylbenzene	10.058	91	671831	51.45 ug/L #	88
95) 1,2-Dibromo-3-chloropr...	10.679	75	31172	56.93 ug/L	82
96) 1,2,4-Trichlorobenzene	11.224	180	229073	57.85 ug/L	99
97) Hexachlorobutadiene	11.305	225	108994	59.11 ug/L	96
98) Naphthalene	11.412	128	565034	59.88 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	198324	59.83 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

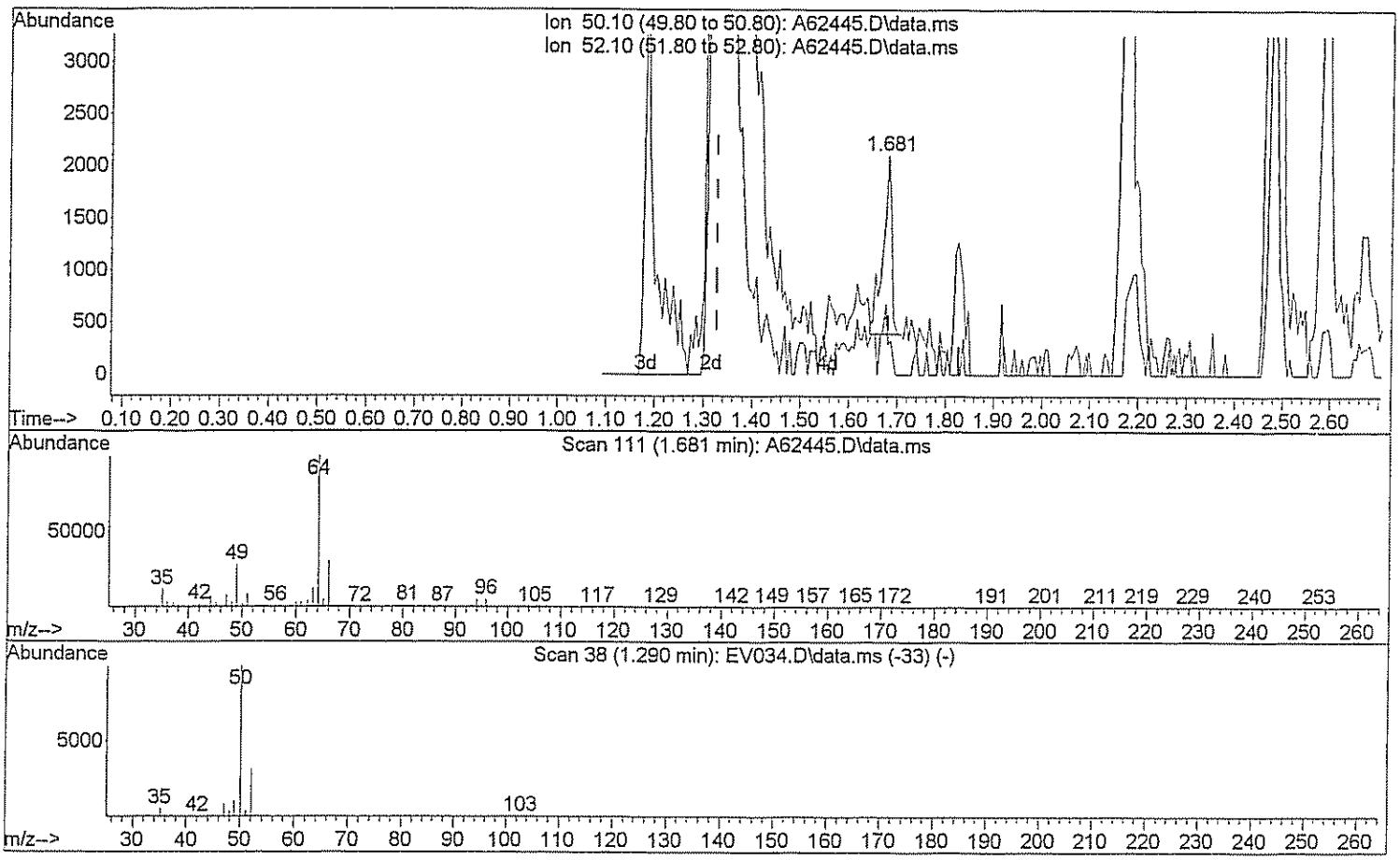
Quant Time: Mar 24 18:57:45 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 18:37:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(3) Chloromethane

1.681min (+0.353) 1.33 ug/L

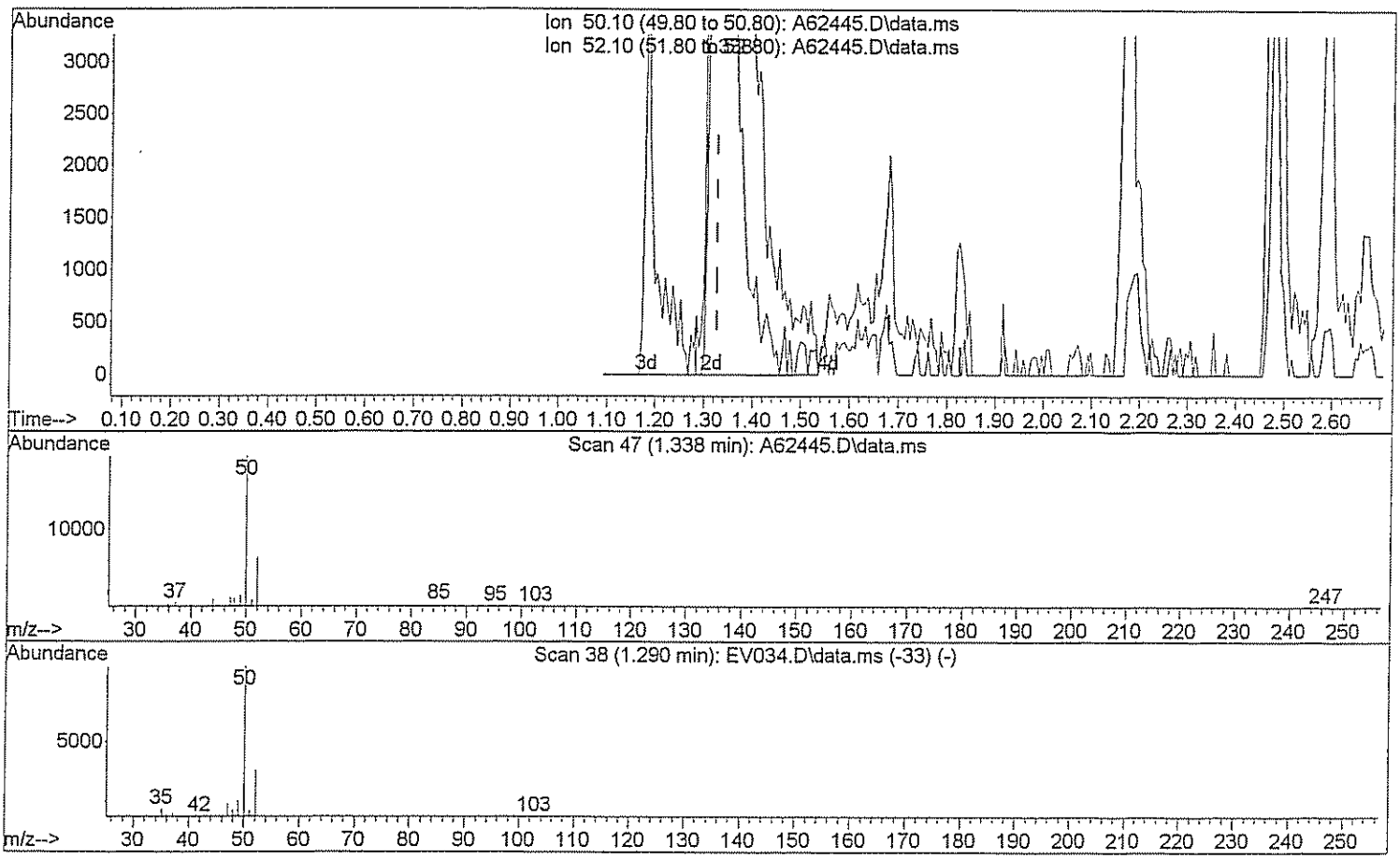
response 2124

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	33.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 18:37:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(3) Chloromethane

1.338min (+0.011) 48.42 ug/L m

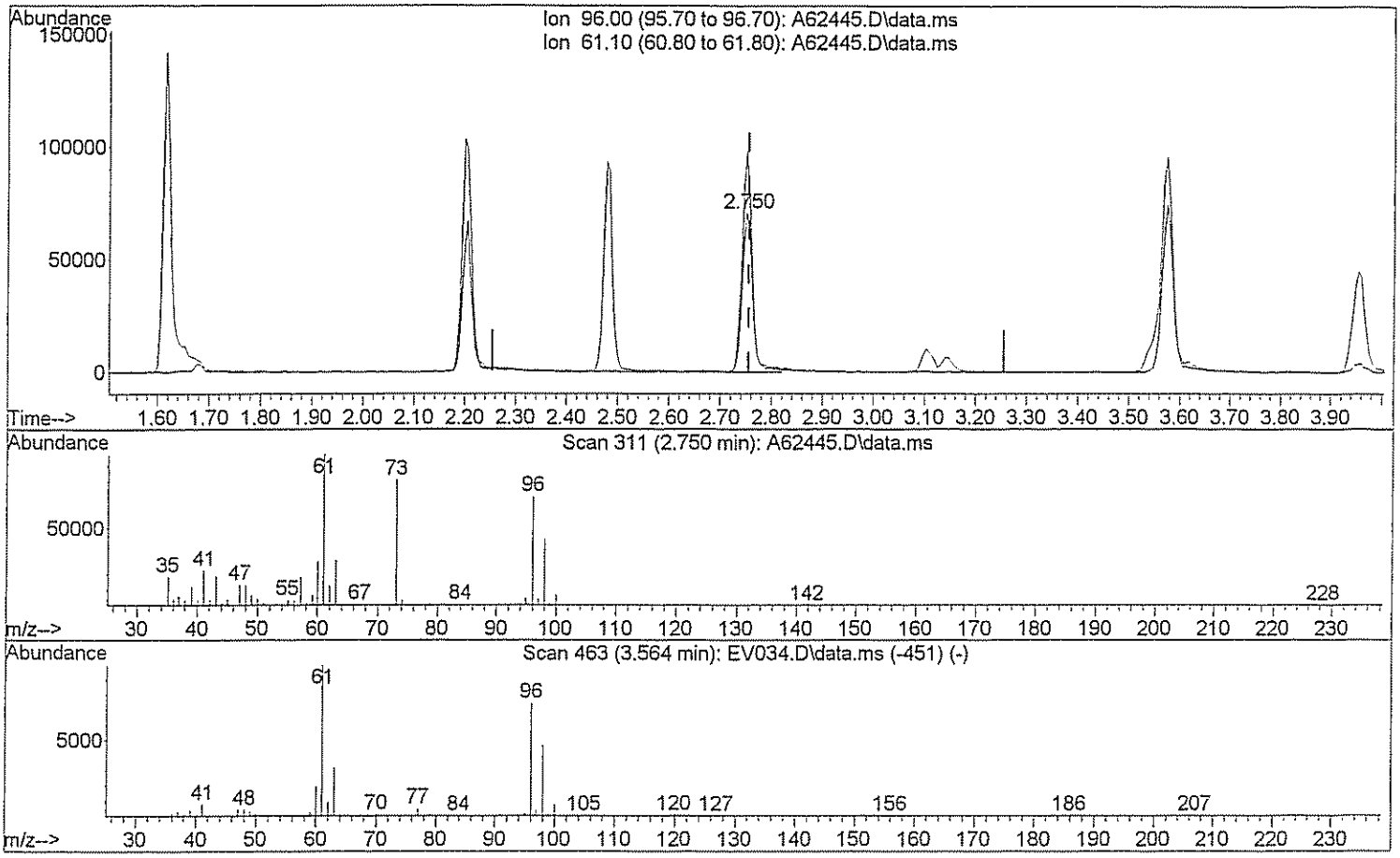
response 77086

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	0.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 09:24:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 40.72 ug/L

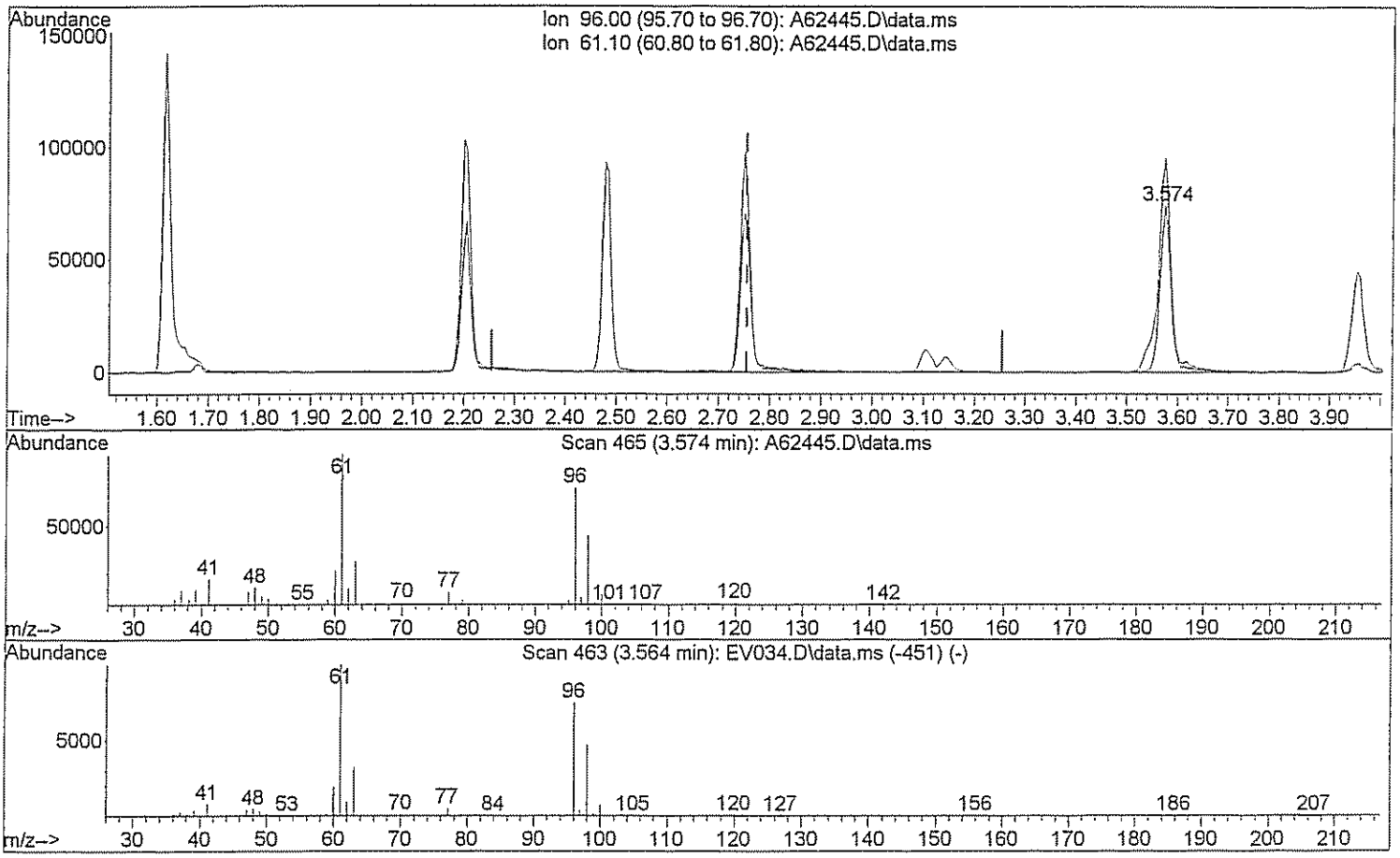
response 99660

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	133.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 09:24:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (+0.819) 89.47 ug/L m JM 3/24/09

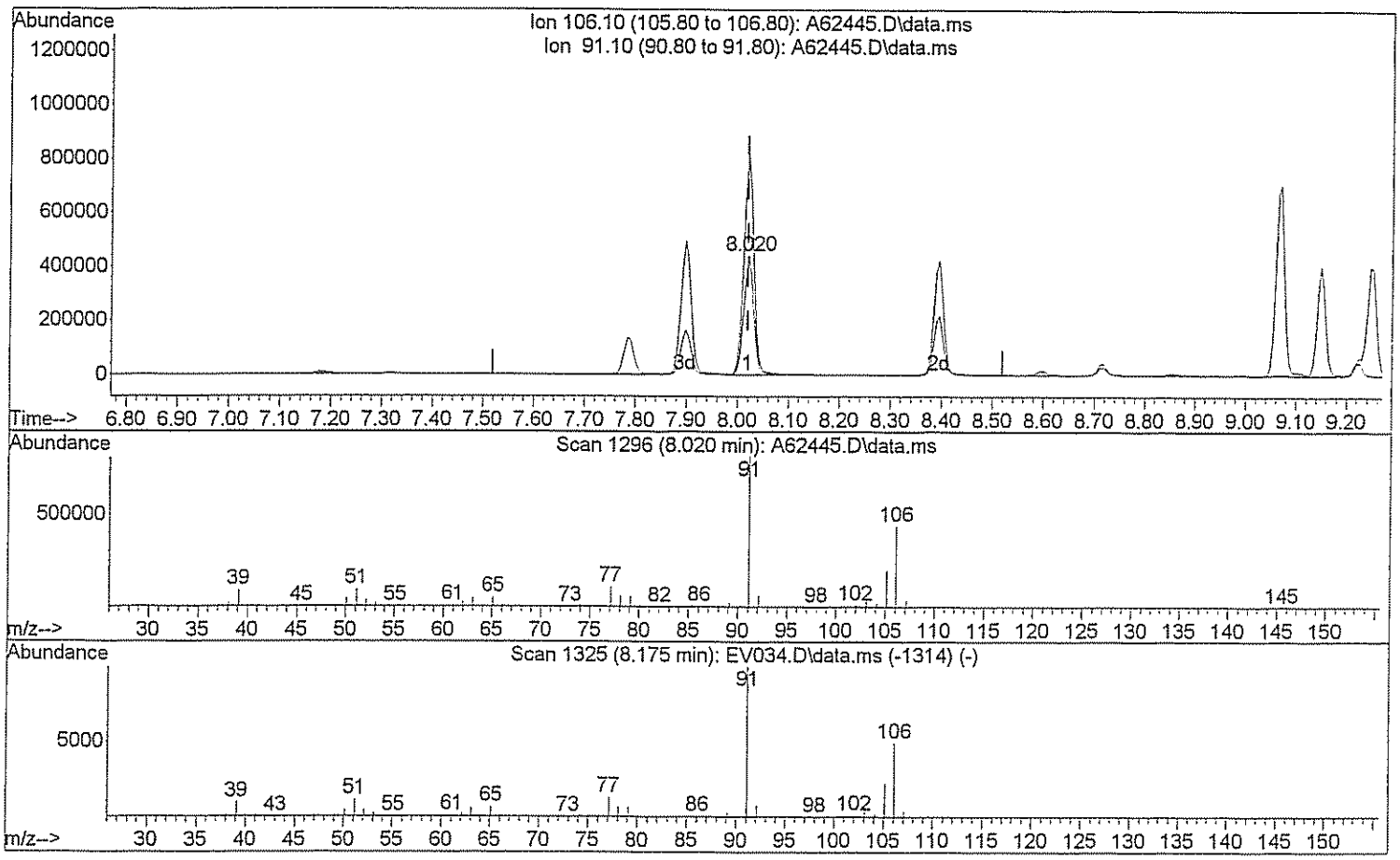
response 218980

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.96#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 09:24:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 103.85 ug/L

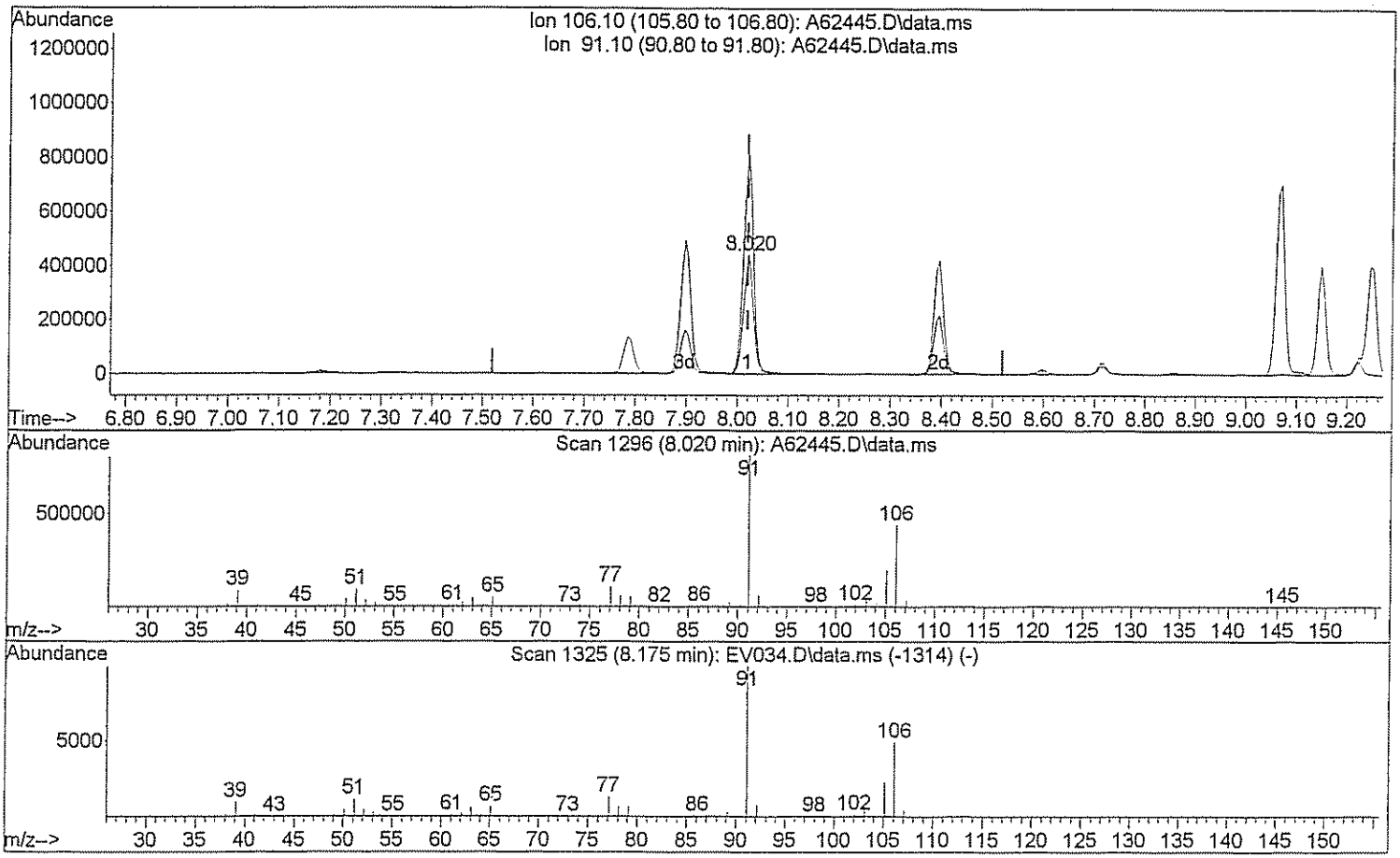
response 588765

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 09:24:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 153.94 ug/L m 3/24/09

response 872755

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.87#
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: [signature] Date: 3/17/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_031009
SEQUENCE FILE:	3-10-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A G2205	BFB	3-10-09	07:35	1X	Std	5mL	N/A	BFB	Ok
	A 7	CAL01							8260	Ok
	A 9	CAL05								Ok
	A 11	CAL20								Ok
	A 13	CAL50								Ok
	A 15	CAL100								Ok
	A 17	Rinse								Cleaning
	A 19	CAL200								Ok
	A 21	BLK								Ok
	A 23	BKS				↓				Ok
	A 25	903020-001				H2O				OK
	A 27	903020-004								Ok
	A 29	903020-005		↓						Ok
	A 31	903020-006		19:08						Ok
	A ↓ 33	903020-007	↓	Outof tune	↓	↓	↓	↓	↓	Rerun
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

Sm 3/11/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11511	50	3-10-09	2.5 ml
Mix1	11512	100		
Mix2	11513	↓		
Mix3	11514	500		
Gasmix	11515	100		
RefMix	11516	↓	↓	

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: ✓ Date: 5/24/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_031009
SEQUENCE FILE:	323-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A62433	BFB	3-23-09	11:28	1X	Std	5mL	N/A	BFB	ok
	A 35	CCV150							8260	
	A 37	BLK								
	39	BKS								
	A 41	Rinse								
	A 43	CAL005								
	A 45	BKS0								
	A 47	9030G2-001				H2O		12		ok
	A 49	9030G2-002								ok
	A 51	9030G2-003								ok
	A 53	9030G2-004								ok
	A 55	9030G2-005								high SS
	A 57	9030G2-006								ok
	A 59	9030G2-007								high SS
	A 61	9030G9-003								ok
	A 63	9030G9-005								ok
	A 65	CAL005		23:08		Std		N/A		ok
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

Lmc 3/24/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11540	50	3-17-09	2.5 mL
Mix1	11541	100		
Mix2	11542	↓		
Mix3	11543	500		
GasMix	11544	100		
RefMix	11545	↓		

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary (where applicable)

GPL Laboratories, LLLP

Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903062

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OUI-MW50-0309	19.2	19.0	1.42	15%
Nitrite-N	E300.0	OUI-MW50-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OUI-MW50-0309	BQL	BQL	N/C	15%

RPD - 0 out of 3 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OUI-MW50-0309	19.2	26.9	10.0	76.7*	90 - 110%
Nitrite-N	E300.0	OUI-MW50-0309	0.00	1.17	1.00	117*	90 - 110%
Nitrate-N	E300.0	OUI-MW50-0309	0.00	1.07	1.00	107	90 - 110%

Recovery - 2 out of 3 outside control limits

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #44805/#44035

LCSL (3/11/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	154	97.3	85 - 115%
Nitrite-N	732	704	96.2	85 - 115%
Nitrate-N	187	174	93.2	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/11/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	152	96.3	85 - 115%
Nitrate-N	187	181	96.7	85 - 115%

Recovery - 0 out of 2 outside Control Limits

B. Sample Data

GPL Laboratories, LLLP

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-034-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	3.9	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

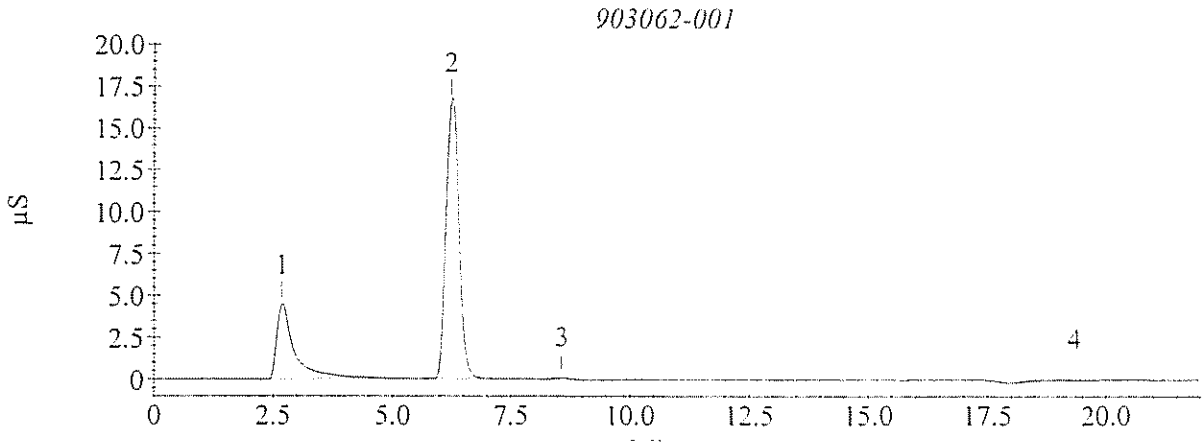
Sample Analysis Report

Sample Name : 903062-001
Data File Name : I:\ICDATA\IC500\090311\090311__013.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Date Time Collected : 3/11/09 5:51:22 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	0.929	1153635	43653
2	Chloride	6.23	3.756	3201974	163813
3	Nitrite-N Bromide Nitrate-N Phosphate-P	8.57	0.046	30454	1046
4	Sulfate	19.33	0.128	63939	625



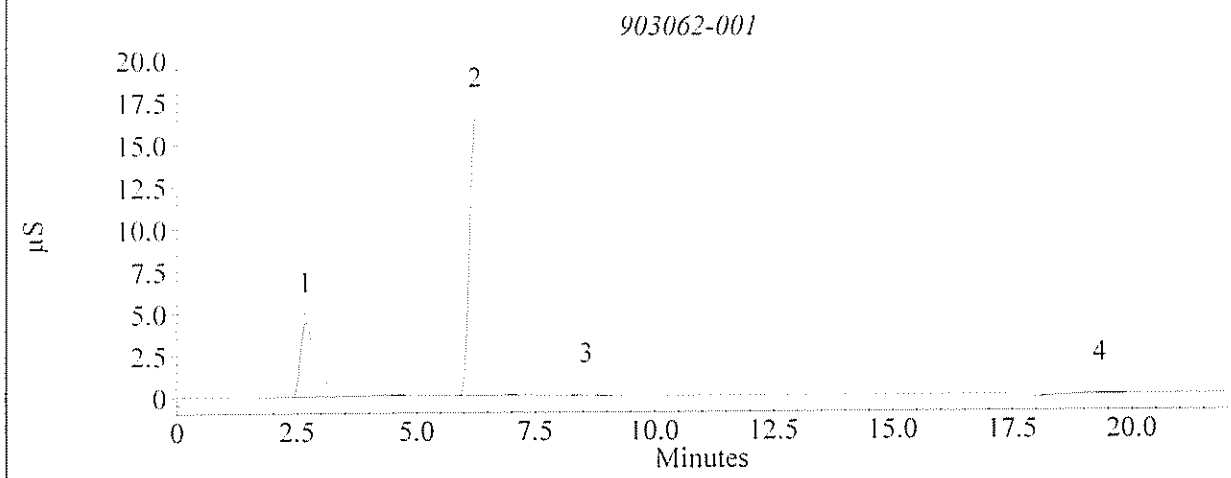
Sample Analysis Report

Sample Name : 903062-001
Data File Name : I:\ICDATA\IC500\090311\090311__013.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/11/09 5:51:22 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.206	1153635	43653
2	Chloride	6.23	3.866	3201974	163813
3	Nitrite-N	8.57	-1.778	30454	1046
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-035-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	0.10	U
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

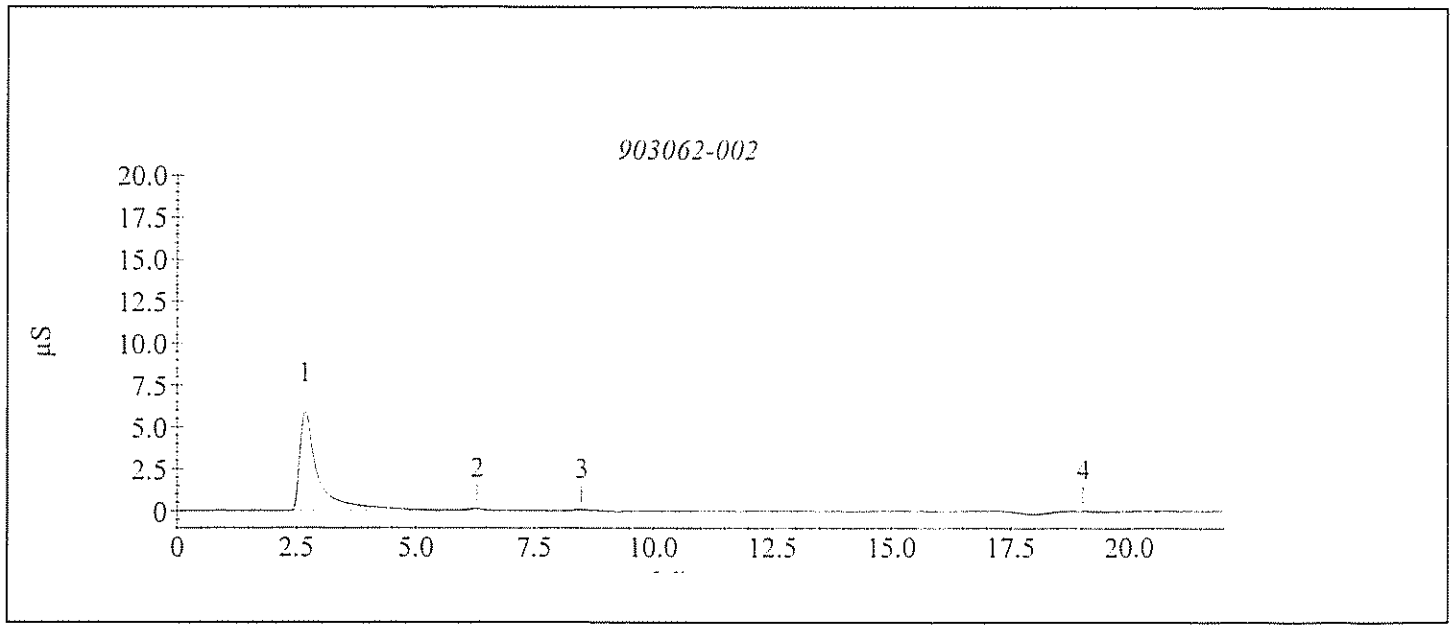
Sample Analysis Report

Sample Name : 903062-002
Data File Name : I:\ICDATA\IC500\090311\090311__014.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 6:16:27 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.287	1619246	57836
2	Chloride	6.30	0.053	29594	1070
3	Nitrite-N Bromide Nitrate-N Phosphate-P	8.50	0.047	31594	853
4	Sulfate	19.03	0.138	70400	906



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-036-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	15	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

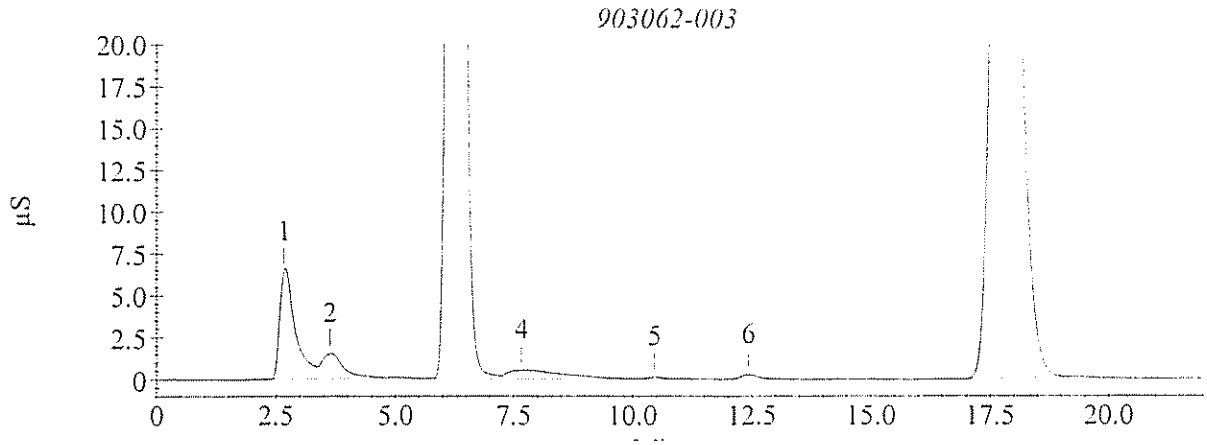
Sample Analysis Report

Sample Name : 903062-003
Data File Name : I:\ICDATA\IC500\090311\090311__018.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 7:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	0.403	471045	14687
3	Chloride	6.33	21.555	18450831	770983
	Nitrite-N				
5	Bromide	10.47	0.091	26884	1139
6	Nitrate-N	12.43	0.094	67971	2639
7	Phosphate-P	17.77	27.906	21846469	604883
	Sulfate				



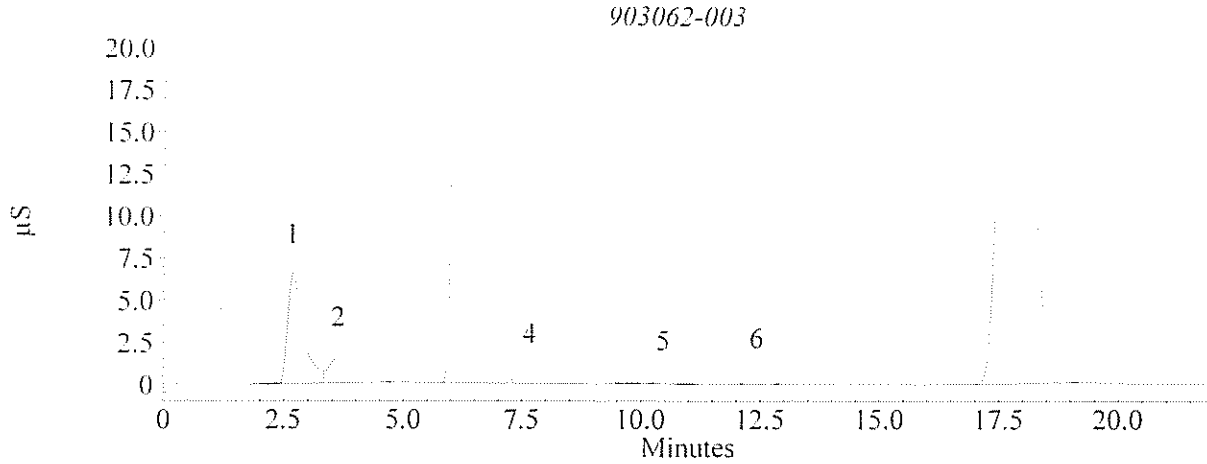
Sample Analysis Report

Sample Name : 903062-003
Data File Name : I:\ICDATA\IC500\090311\090311__018.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/11/09 7:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	0.787	471045	14687
3	Chloride	6.33	15.340	18450831	770983
	Nitrite-N				
	Bromide				
6	Nitrate-N	12.43	1.206	67971	2639
	Phosphate-P				
7	Sulfate	17.77	27.030	21846469	604883



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-037-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	13	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

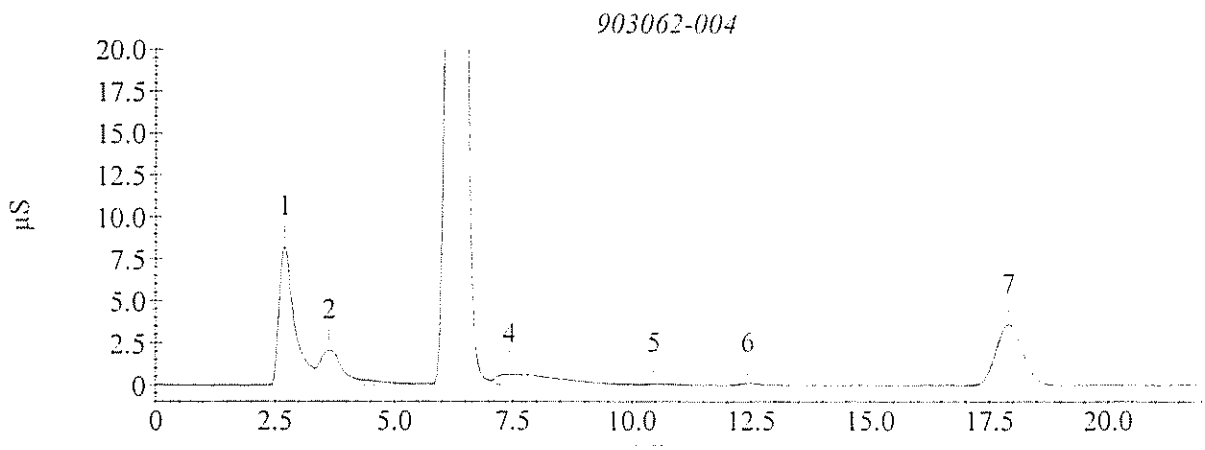
Sample Analysis Report

Sample Name : 903062-004
Data File Name : I:\ICDATA\IC500\090311\090311__019.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 8:21:53 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	0.633	769487	20586
3	Chloride	6.37	17.758	15198023	625702
	Nitrite-N				
5	Bromide	10.47	0.091	26782	808
6	Nitrate-N	12.43	0.079	29750	1107
	Phosphate-P				
7	Sulfate	17.90	2.344	1426455	36148



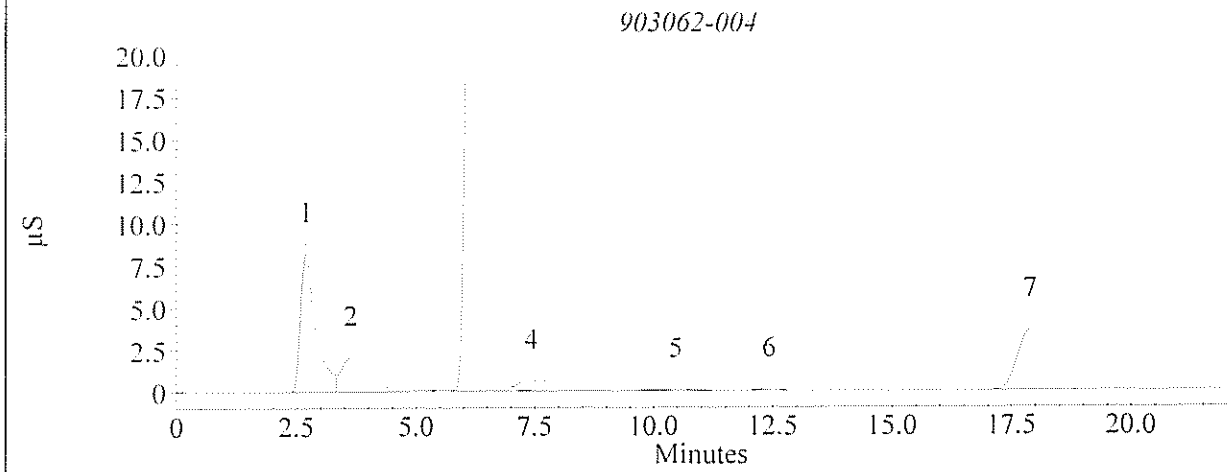
Sample Analysis Report

Sample Name : 903062-004
Data File Name : I:\ICDATA\IC500\090311\090311__019.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/11/09 8:21:53 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	0.970	769487	20586
3	Chloride	6.37	12.892	15198023	625702
	Nitrite-N				
	Bromide				
6	Nitrate-N	12.43	1.195	29750	1107
	Phosphate-P				
7	Sulfate	17.90	3.380	1426455	36148



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-038-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

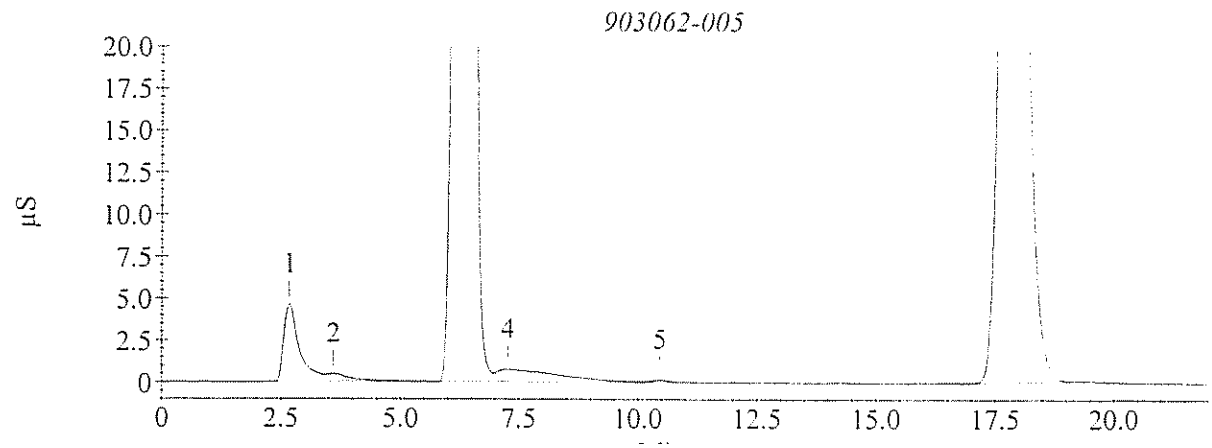
Sample Analysis Report

Sample Name : 903062-005
Data File Name : I:\ICDATA\IC500\090311\090311__020.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 8:46:59 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.130	116862	2937
3	Chloride Nitrite-N	6.40	30.373	26005071	1275312
5	Bromide Nitrate-N Phosphate-P	10.47	0.087	25454	1181
6	Sulfate	17.80	35.617	21884040	657404



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-038-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	19	

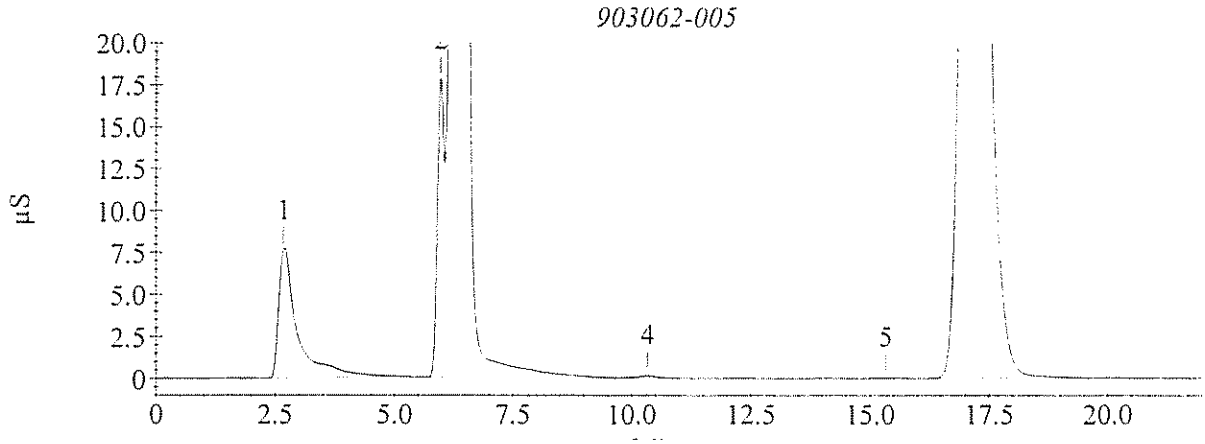
Sample Analysis Report

Sample Name : 903062-005
Data File Name : I:\ICDATA\IC500\090325\090325__030.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/26/09 12:52:01 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	2087110	75460
3	Chloride Nitrite-N	6.37	19.236	24555202	1184679
4	Bromide Nitrate-N	10.33	1.976	35678	1296
5	Phosphate-P	15.33	2.773	10138	336
6	Sulfate	17.13	22.862	21667700	590503



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-039-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/11/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.4	
14797-55-8	Nitrate	0.15	
7727-37-9	Nitrite	0.10	U

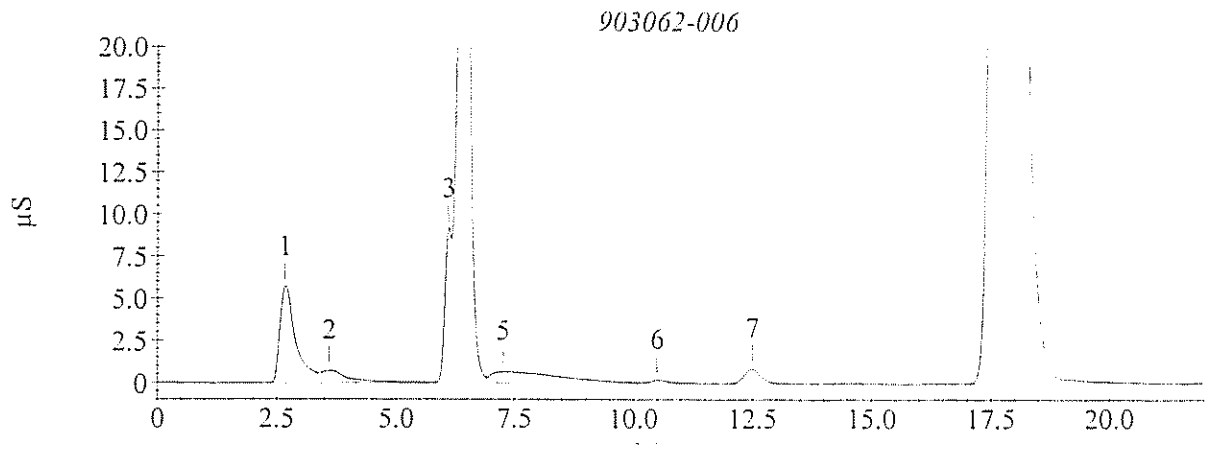
Sample Analysis Report

Sample Name : 903062-006
Data File Name : I:\ICDATA\IC500\090311\090311__023.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 10:02:19 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.224	238043	5076
4	Chloride	6.40	9.216	7879563	448553
	Nitrite-N				
6	Bromide	10.50	0.181	59654	1915
7	Nitrate-N	12.50	0.153	212621	8586
8	Phosphate-P	17.73	53.470	41888174	1180506
	Sulfate				



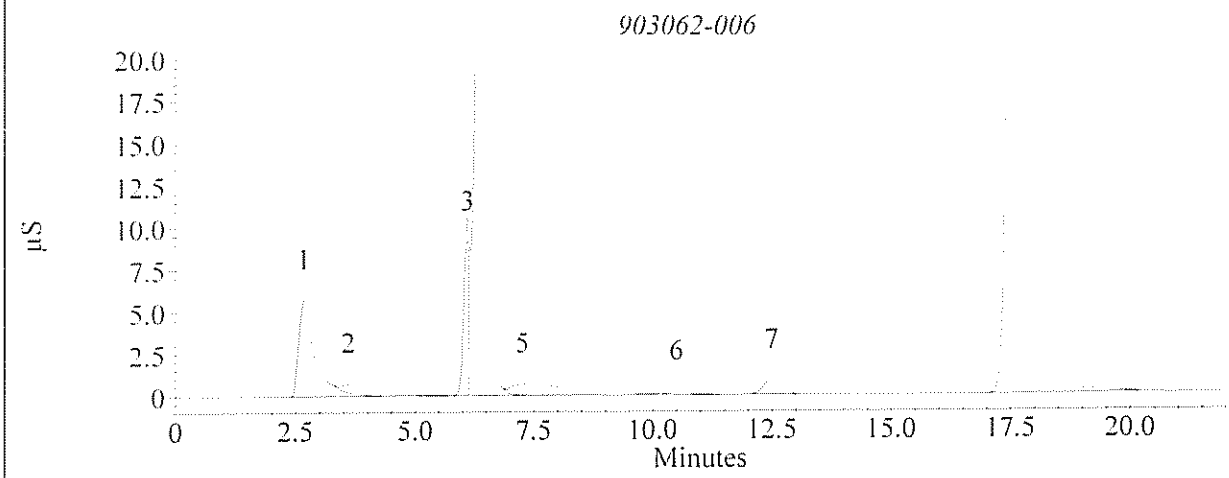
Sample Analysis Report

Sample Name : 903062-006
Data File Name : I:\ICDATA\IC500\090311\090311__023.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/11/09 10:02:19 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.644	238043	5076
4	Chloride	6.40	7.386	7879563	448553
	Nitrite-N				
	Bromide				
7	Nitrate-N	12.50	1.248	212621	8586
	Phosphate-P				
8	Sulfate	17.73	50.242	41888174	1180506



C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLLP

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903062 STD Solution ID: 45325/45405

3/11/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVL	Chloride	1.25	1.37	110	90 - 110%
	Nitrite-N	1.25	1.30	104	90 - 110%
	Nitrate-N	1.25	1.26	100	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	Chloride	1.25	1.37	109	90 - 110%
	Nitrite-N	1.25	1.31	105	90 - 110%
	Nitrate-N	1.25	1.25	100	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	Chloride	1.25	1.37	110	90 - 110%
	Nitrite-N	1.25	1.24	99.4	90 - 110%
	Nitrate-N	1.25	1.35	108	90 - 110%

3/25/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	Chloride	1.25	1.18	94.3	90 - 110%
	Nitrite-N	1.25	1.19	94.9	90 - 110%
	Nitrate-N	1.25	1.18	94.5	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL3	Chloride	1.25	1.17	93.8	90 - 110%
	Nitrite-N	1.25	1.18	94.6	90 - 110%
	Nitrate-N	1.25	1.19	95.0	90 - 110%

3/11/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVH	Chloride	20.0	21.2	106	90 - 110%
	Nitrate-N	20.0	20.7	104	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	Chloride	20.0	20.7	104	90 - 110%
	Nitrate-N	20.0	20.6	103	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	Chloride	20.0	20.7	104	90 - 110%
	Nitrate-N	20.0	20.6	103	90 - 110%

3/25/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	Chloride	10.0	9.47	94.7	90 - 110%
	Nitrate-N	10.0	9.87	98.7	90 - 110%
	Sulfate	10.0	9.60	96.0	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	Chloride	10.0	9.52	95.2	90 - 110%
	Nitrate-N	10.0	9.84	98.4	90 - 110%
	Sulfate	10.0	9.46	94.6	90 - 110%

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.63 min	1.00 min	
Chloride	6.40 min	1.00 min	
Nitrite-N	8.27 min	1.00 min	
Bromide	11.13 min	1.00 min	
Nitrate-N	13.37 min	1.00 min	
Phosphate-P	16.77 min	1.00 min	
Sulfate	18.97 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.63 min	0	0
Chloride	6.40 min	0	0
Nitrite-N	8.27 min	0	0
Bromide	11.13 min	0	0
Nitrate-N	13.37 min	0	0
Phosphate-P	16.77 min	0	0
Sulfate	18.97 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.63 min	Linear	Ignore	Area		0.00
Chloride	6.40 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.27 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.13 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	13.37 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.77 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.97 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	4957.2
2	0.10	109547
3	0.25	277132
4	0.50	557311
5	1.00	1.24129e+006
6	2.50	3.20076e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.40 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	77115.9
3	0.25	197410
4	0.50	408470
5	1.00	836176
6	2.50	2.12844e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.27 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	13027
2	0.10	159558
3	0.25	359105
4	0.50	820570
5	1.00	1.74342e+006
6	2.50	4.38464e+006

CD20 Component = Bromide Levels Table

Retention Time : 11.13 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	38326.6
3	0.25	88554.3
4	0.50	165498
5	1.00	356395
6	2.50	912041

CD20 Component = Nitrate-N Levels Table

Retention Time : 13.37 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	205502
3	0.25	506529
4	0.50	970676
5	1.00	2.16507e+006
6	2.50	6.05721e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7303.4
2	0.10	67439.6
3	0.25	165945
4	0.50	353067
5	1.00	734622
6	2.50	1.93771e+006

CD20 Component = Sulfate Levels Table

Retention Time : 18.97 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	53956.6
3	0.25	139751
4	0.50	274835
5	1.00	612643
6	2.50	1.52046e+006

CD20 XY Data Parameters

Calibration Update Report

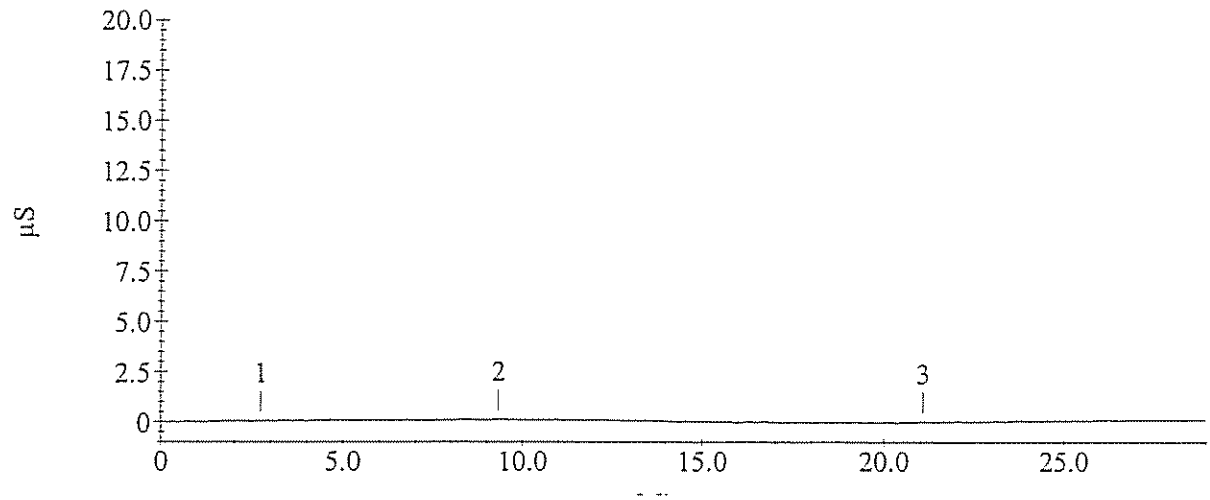
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\080917\080917__003.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:21:51 PM
Calibration Date : 9/18/08 10:53:59 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride Chloride	2.73	12030	4957	4957
2	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	9.33	10214	13027	13027

STD 1 - BLK



Calibration Update Report

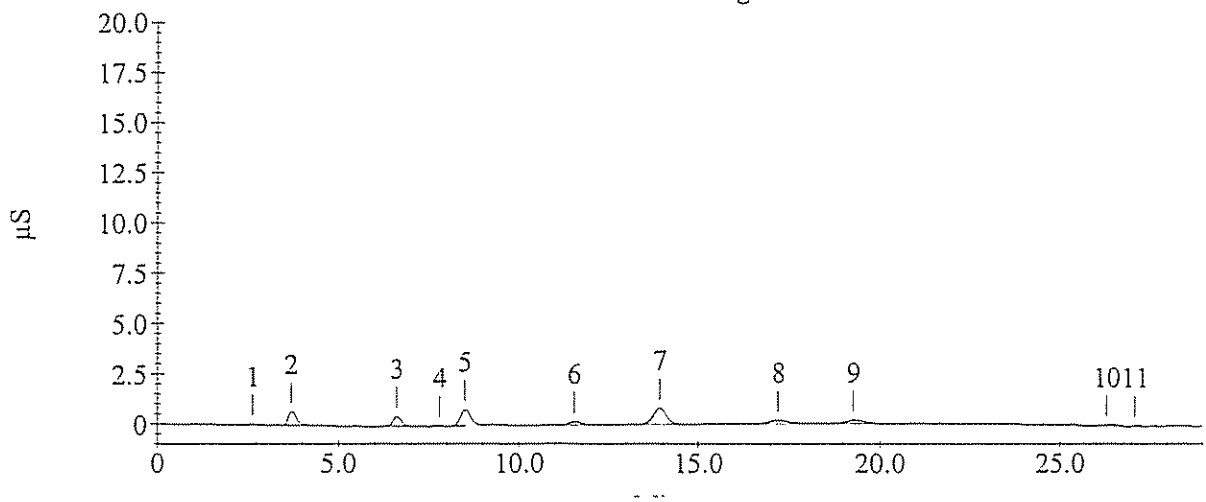
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__004.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:54:07 PM
Calibration Date : 9/18/08 10:54:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.70	127699	109547	109547
3	Chloride	6.60	79506	77116	77116
5	Nitrite-N	8.50	165770	159558	159558
6	Bromide	11.53	36476	38327	38327
7	Nitrate-N	13.93	210099	205502	205502
8	Phosphate-P	17.20	57656	67440	67440
9	Sulfate	19.27	29056	53957	53957

STD 2 - 0.10 mg/L



Calibration Update Report

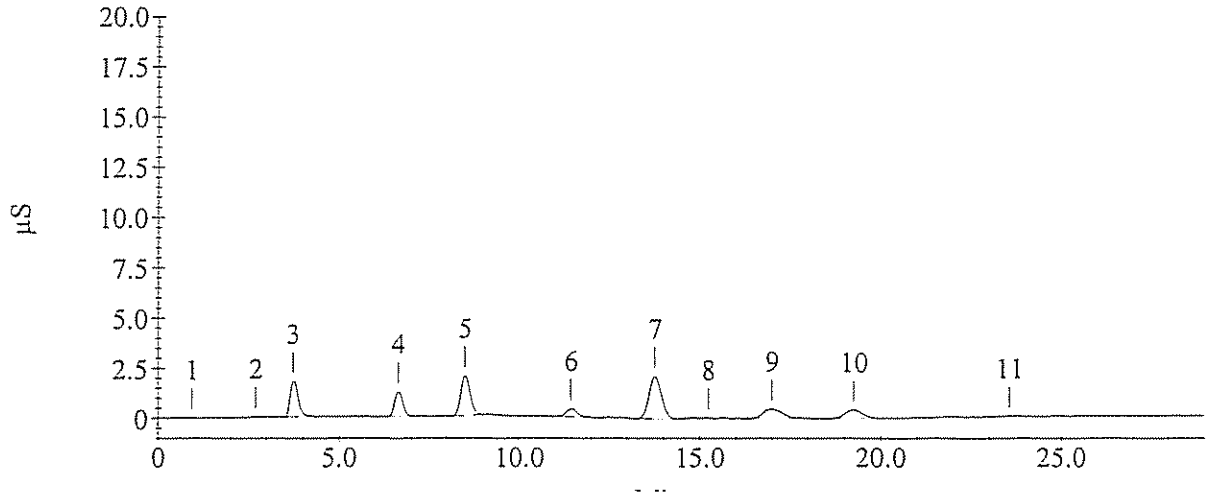
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__005.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:26:23 PM
Calibration Date : 9/18/08 10:55:25 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.73	321091	277132	277132
4	Chloride	6.63	234107	197410	197410
5	Nitrite-N	8.50	439503	359105	359105
6	Bromide	11.43	91211	88554	88554
7	Nitrate-N	13.77	544593	506530	506530
9	Phosphate-P	17.00	161886	165945	165945
10	Sulfate	19.27	150013	139751	139751

STD 3 - 0.25 mg/L



Calibration Update Report

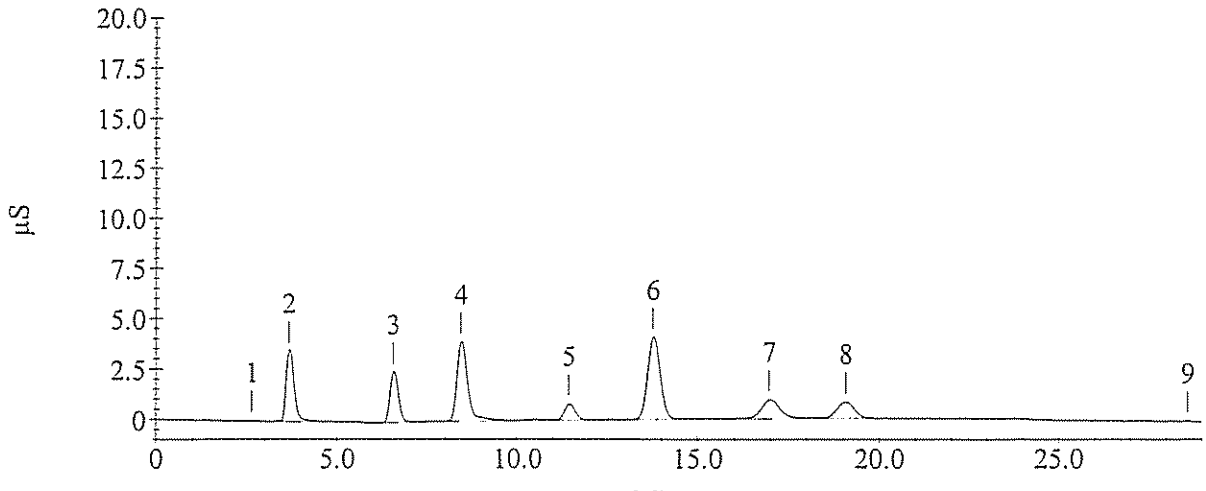
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__006.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:58:39 PM
Calibration Date : 9/18/08 10:55:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	652331	557311	557311
3	Chloride	6.53	443570	408470	408470
4	Nitrite-N	8.43	856511	820570	820570
5	Bromide	11.43	176794	165498	165498
6	Nitrate-N	13.77	1117440	970676	970676
7	Phosphate-P	16.97	364199	353067	353067
8	Sulfate	19.07	317565	274835	274835

STD 4 - 0.50 mg/L



Calibration Update Report

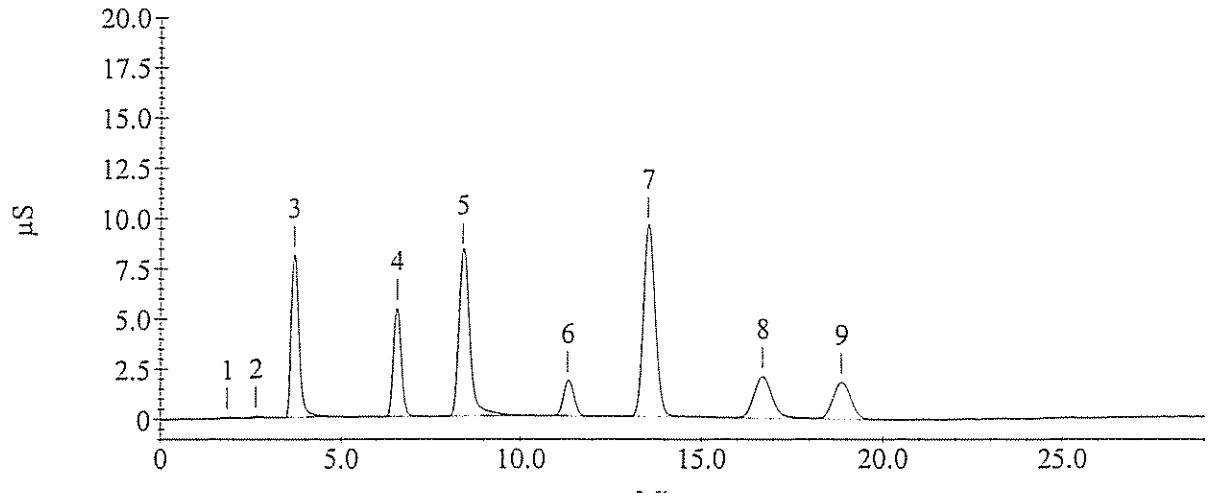
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__007.DXD

Method File Name : h:\icdata\methods\method 300\080917i-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 5:30:56 PM
Calibration Date : 9/18/08 10:56:16 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	1414952	1241286	1241286
4	Chloride	6.57	945973	836176	836176
5	Nitrite-N	8.40	1867081	1743424	1743424
6	Bromide	11.30	378829	356395	356395
7	Nitrate-N	13.53	2350504	2165069	2165069
8	Phosphate-P	16.70	766176	734622	734622
9	Sulfate	18.87	605591	612643	612643

STD 5 - 1.00 mg/L



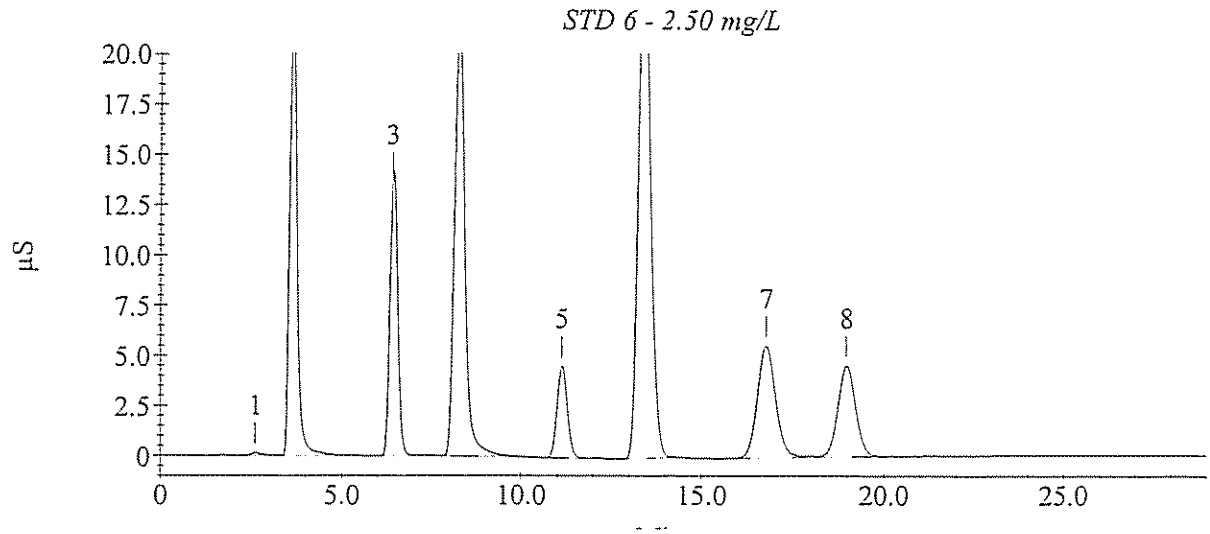
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__008.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:03:10 PM
Calibration Date : 9/18/08 10:56:45 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.63	3393532	3201114	3201114
3	Chloride	6.40	2250125	2128443	2128443
4	Nitrite-N	8.27	4631633	4384638	4384638
5	Bromide	11.13	897545	912041	912041
6	Nitrate-N	13.37	6210895	6057211	6057211
7	Phosphate-P	16.77	2064462	1937708	1937708
8	Sulfate	18.97	1545001	1520461	1520461



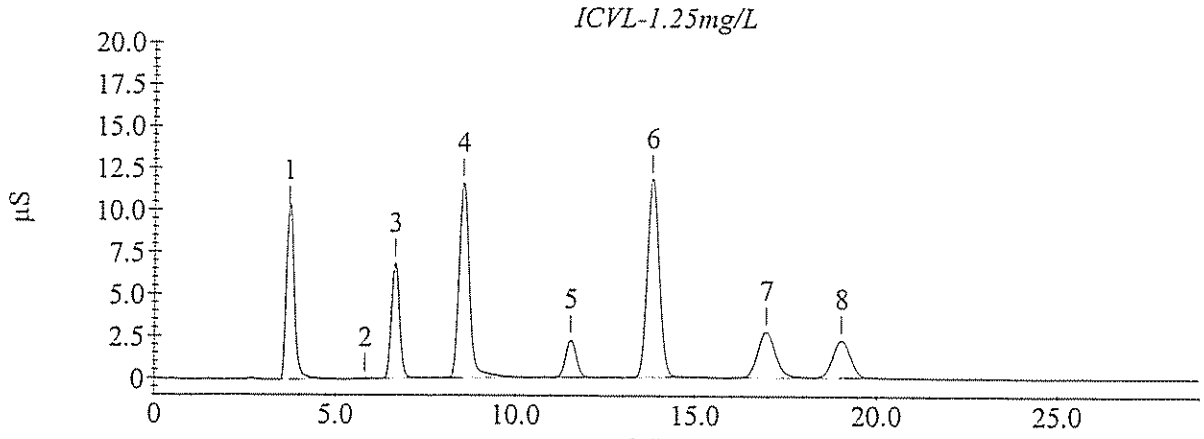
Sample Analysis Report

Sample Name : ICVL-1.25mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 9/17/08 9:49:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	1.272	1599310	100086
3	Chloride	6.63	1.281	1081600	67848
4	Nitrite-N	8.53	1.342	2332375	115172
5	Bromide	11.53	1.266	457280	22107
6	Nitrate-N	13.80	1.167	2714120	117215
7	Phosphate-P	16.97	1.231	934494	27173
8	Sulfate	19.03	1.214	732044	22175



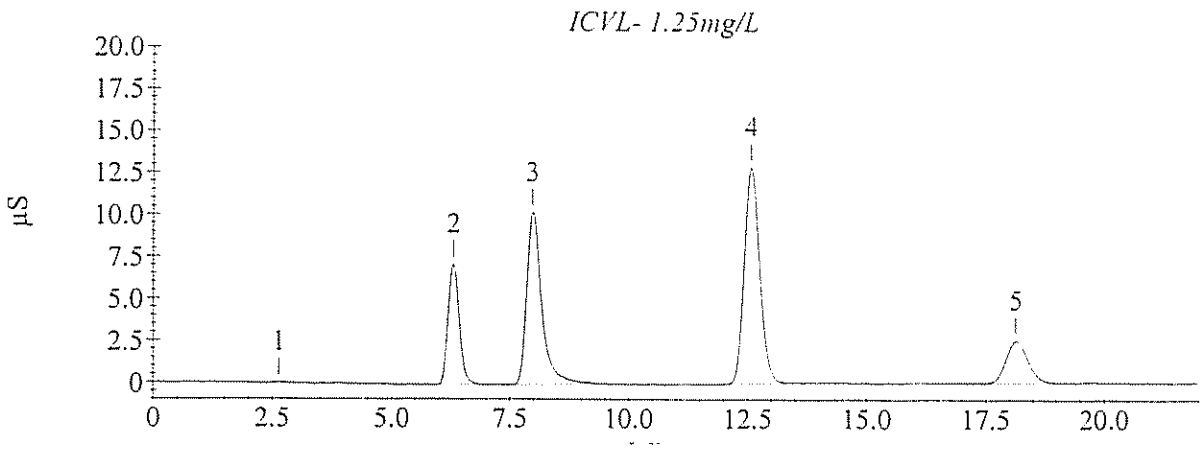
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__002.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 1:14:45 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.63	0.048	9995	524
2	Chloride	6.30	1.373	1160782	71146
3	Nitrite-N Bromide	7.97	1.300	2256363	101838
4	Nitrate-N Phosphate-P	12.57	1.256	2933389	128252
5	Sulfate	18.13	1.354	817874	24934



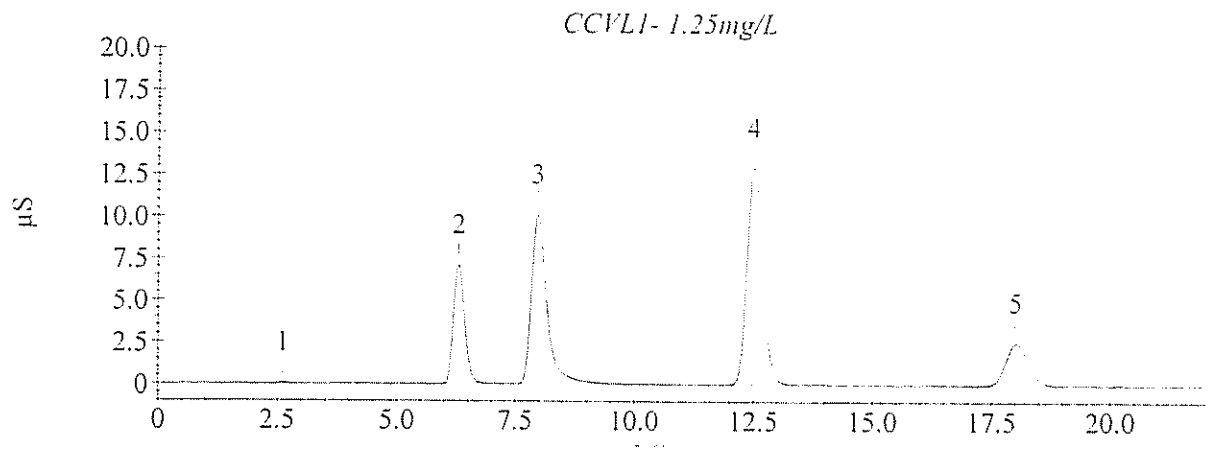
Sample Analysis Report

Sample Name : CCVL1- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__015.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Date Time Collected : 3/11/09 6:41:32 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	9683	650
2	Chloride	6.30	1.368	1156382	70493
3	Nitrite-N Bromide	7.97	1.307	2269500	100373
4	Nitrate-N Phosphate-P	12.50	1.253	2925749	128596
5	Sulfate	18.00	1.351	816097	24918



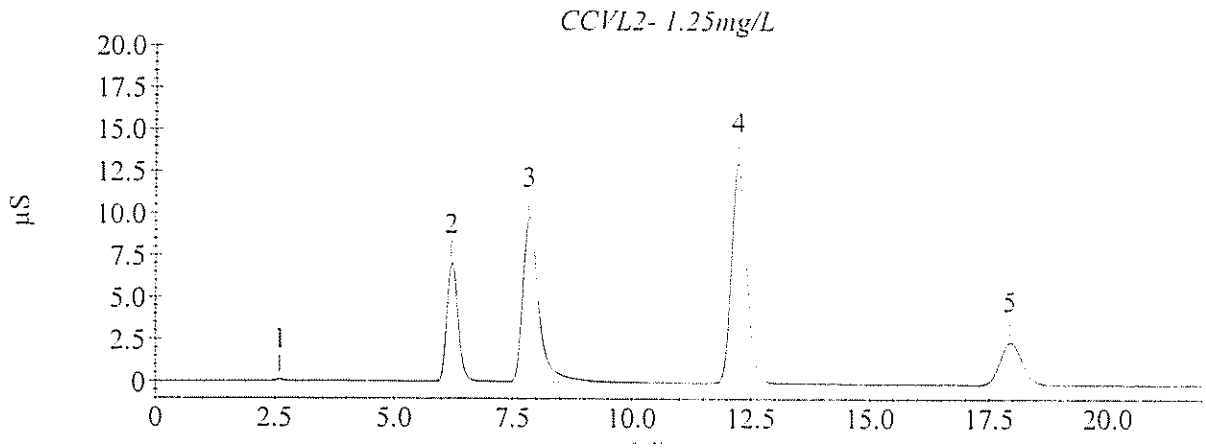
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__028.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 12:07:58 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	11016	911
2	Chloride	6.20	1.371	1158350	69209
3	Nitrite-N Bromide	7.83	1.345	2336570	97099
4	Nitrate-N Phosphate-P	12.23	1.243	2901182	130557
5	Sulfate	17.93	1.345	812613	25040



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.67 min	1.00 min	
Chloride	6.20 min	1.00 min	
Nitrite-N	7.83 min	1.00 min	
Bromide	10.33 min	1.00 min	
Nitrate-N	12.20 min	1.00 min	
Phosphate-P	15.67 min	5.00 min	
Sulfate	17.80 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.67 min	0	0
Chloride	6.20 min	0	0
Nitrite-N	7.83 min	0	0
Bromide	10.33 min	0	0
Nitrate-N	12.20 min	0	0
Phosphate-P	15.67 min	0	0
Sulfate	17.80 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.67 min	Linear	Ignore	Area		0.00
Chloride	6.20 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	7.83 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.33 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.20 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.67 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.80 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	21958
2	0.10	135267
3	0.25	287985
4	0.50	546281
5	1.00	1.21146e+006
6	2.50	3.07327e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	104137
3	0.25	210975
4	0.50	423601
5	1.00	886345
6	2.50	2.27702e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 7.83 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	62855.3
2	0.10	238116
3	0.25	487595
4	0.50	880655
5	1.00	1.79323e+006
6	2.50	4.50791e+006

CD20 Component = Bromide Levels Table

Retention Time : 10.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	36053.3
3	0.25	87423.9
4	0.50	184692
5	1.00	378819
6	2.50	940431

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	198696
3	0.25	532712
4	0.50	1.03372e+006
5	1.00	2.36629e+006
6	2.50	6.12422e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	8388.6
2	0.10	29693.1
3	0.25	120423
4	0.50	216150
5	1.00	493533
6	2.50	1.34148e+006

CD20 Component = Sulfate Levels Table

Retention Time : 17.80 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	79015.6
3	0.25	193779
4	0.50	348721
5	1.00	729749
6	2.50	1.79531e+006

CD20 XY Data Parameters

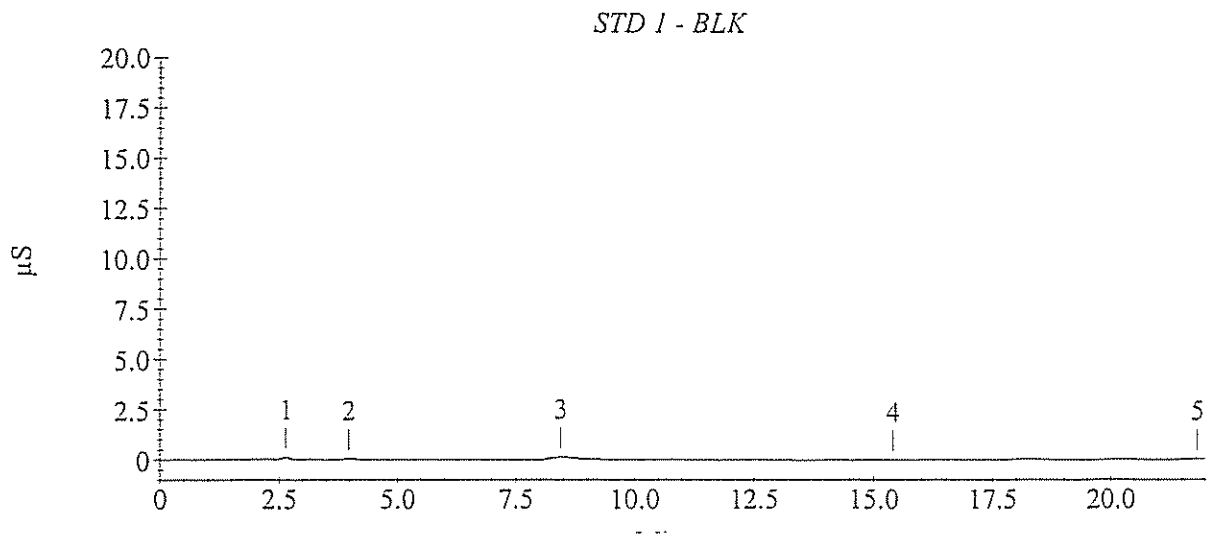
Calibration Update Report

Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\090318\090318__005.DXD

Method File Name : H:\icdata\methods\method 300\090318I-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:30:43 PM
Calibration Date : 3/19/09 9:53:29 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride Chloride	3.97	4957	21958	21958
3	Nitrite-N Bromide Nitrate-N	8.43	13027	62855	62855
4	Phosphate-P Sulfate	15.40	7303	8389	8389



Calibration Update Report

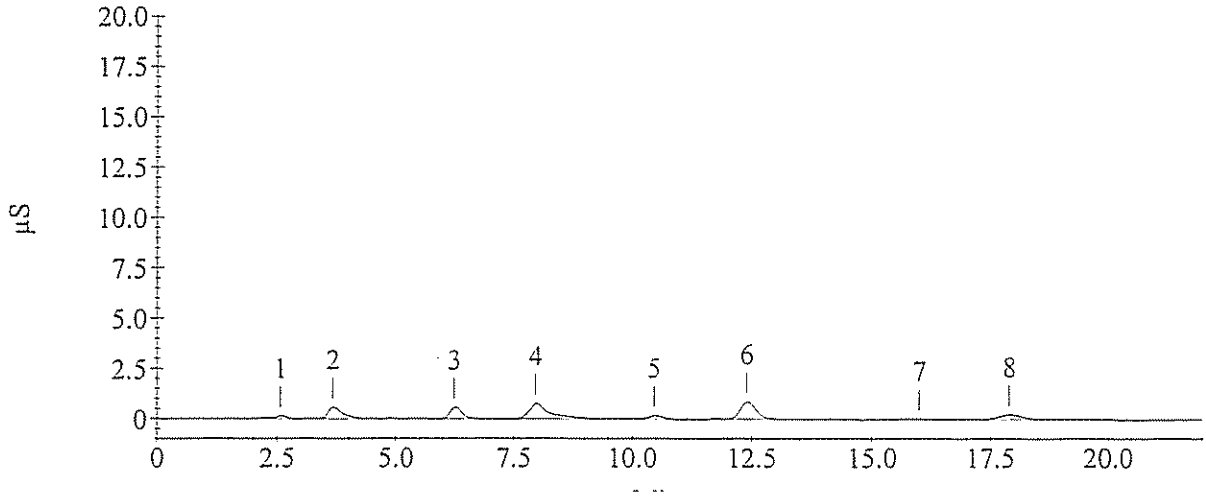
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__006.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:55:47 PM
Calibration Date : 3/19/09 10:00:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	109547	135267	135267
3	Chloride	6.23	77116	104137	104137
4	Nitrite-N	7.97	159558	238116	238116
5	Bromide	10.47	38327	36053	36053
6	Nitrate-N	12.40	205502	198696	198696
7	Phosphate-P	16.00	67440	29693	29693
8	Sulfate	17.90	53957	79016	79016

STD 2 - 0.10 mg/L



Calibration Update Report

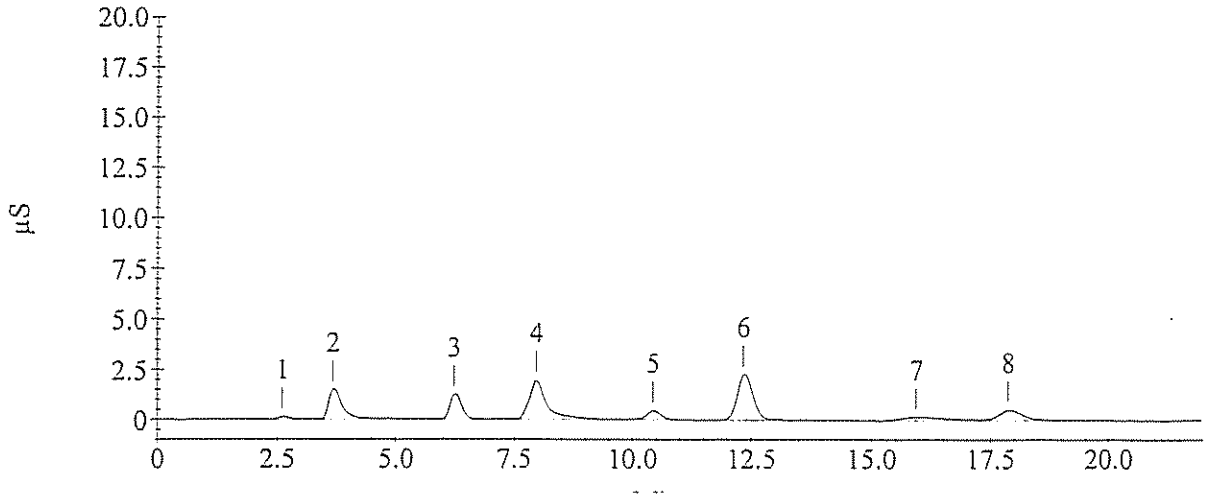
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__007.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:20:51 PM
Calibration Date : 3/19/09 9:16:23 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	277132	287985	287985
3	Chloride	6.23	197410	210975	210975
4	Nitrite-N	7.97	359105	487595	487595
5	Bromide	10.43	88554	87424	87424
6	Nitrate-N	12.33	506529	532712	532712
7	Phosphate-P	15.93	165945	120423	120423
8	Sulfate	17.87	139751	193779	193779

STD 3 - 0.25 mg/L



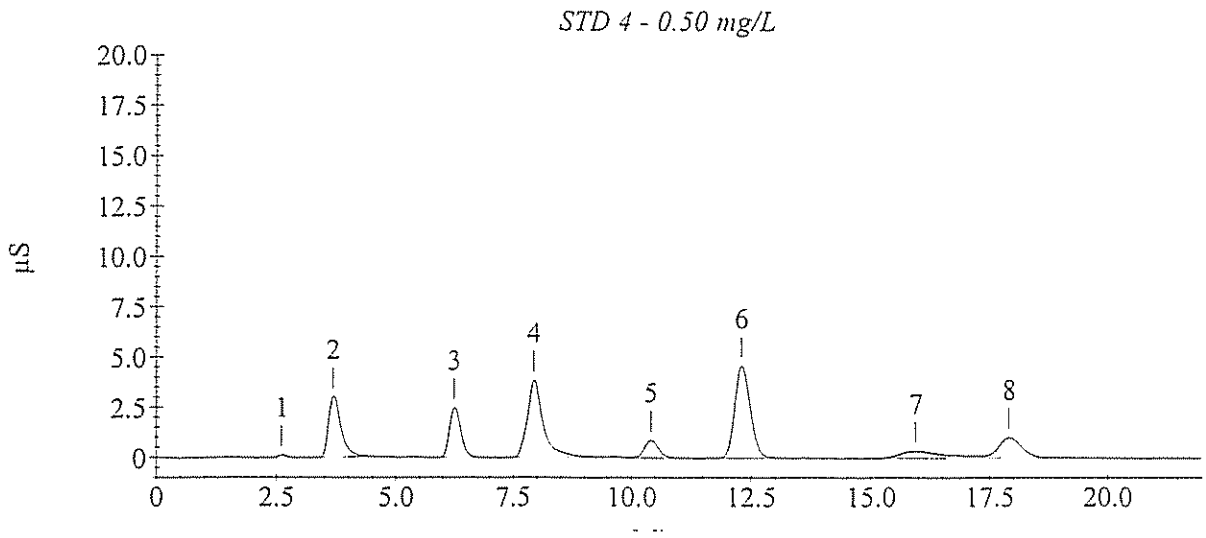
Calibration Update Report

Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__008.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:45:56 PM
Calibration Date : 3/19/09 9:16:47 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	557311	546281	546281
3	Chloride	6.23	408470	423601	423601
4	Nitrite-N	7.93	820570	880655	880655
5	Bromide	10.40	165498	184692	184692
6	Nitrate-N	12.30	970676	1033717	1033717
7	Phosphate-P	15.93	353067	216150	216150
8	Sulfate	17.90	274835	348721	348721



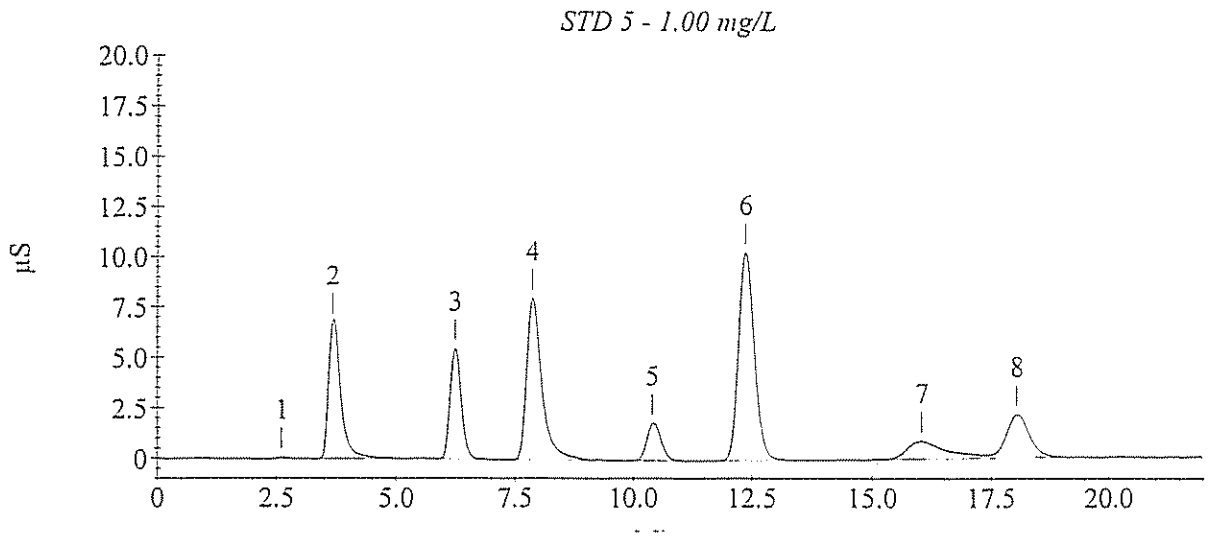
Calibration Update Report

Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__009.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:11:03 PM
Calibration Date : 3/19/09 9:17:01 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	1241286	1211455	1211455
3	Chloride	6.23	836176	886345	886345
4	Nitrite-N	7.87	1743424	1793231	1793231
5	Bromide	10.40	356395	378819	378819
6	Nitrate-N	12.37	2165069	2366291	2366291
7	Phosphate-P	16.03	734622	493533	493533
8	Sulfate	18.03	612643	729749	729749



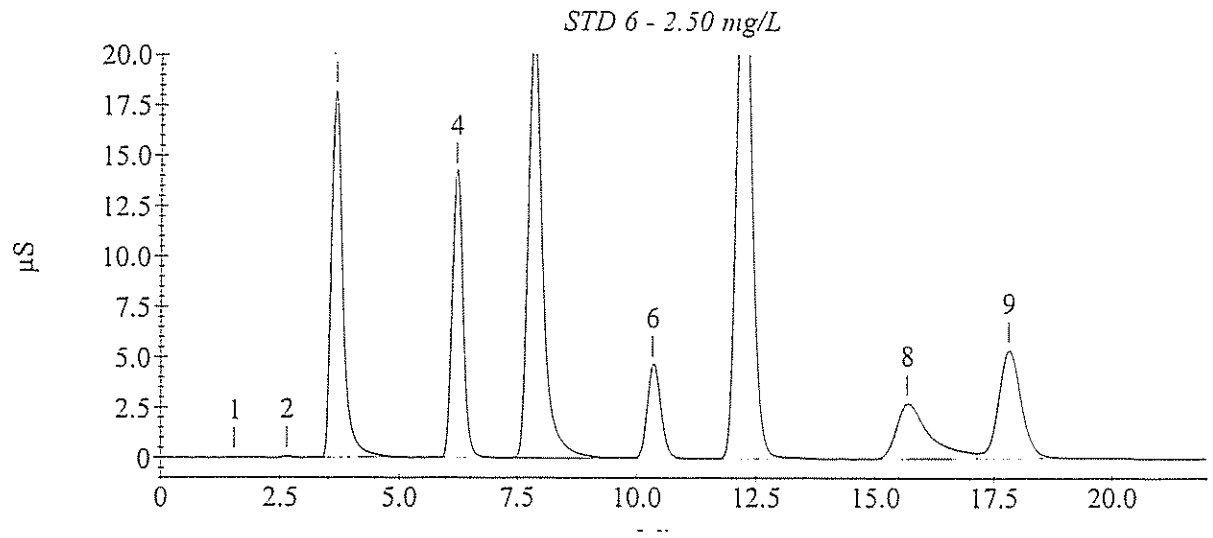
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__010.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:36:08 PM
Calibration Date : 3/19/09 9:17:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.67	3200757	3073266	3073266
4	Chloride	6.20	2128443	2277017	2277017
5	Nitrite-N	7.83	4384638	4507913	4507913
6	Bromide	10.33	912041	940431	940431
7	Nitrate-N	12.20	6057211	6124224	6124224
8	Phosphate-P	15.67	1937708	1341477	1341477
9	Sulfate	17.80	1520461	1795309	1795309



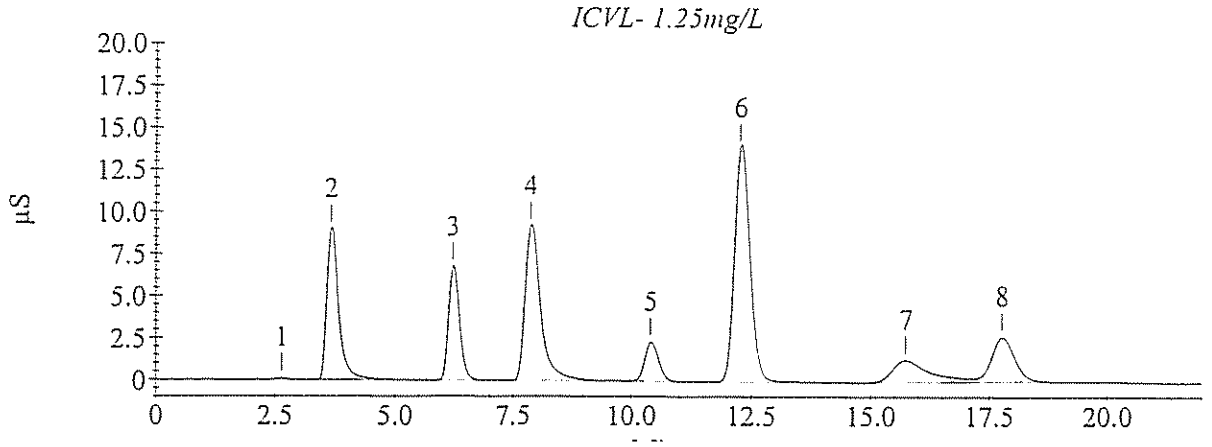
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__017.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/18/09 6:31:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.283	1565911	89179
3	Chloride	6.23	1.228	1107725	66995
4	Nitrite-N	7.87	1.169	2120349	91415
5	Bromide	10.40	1.243	466511	23016
6	Nitrate-N	12.27	1.307	3138229	138573
7	Phosphate-P	15.73	1.340	701225	13082
8	Sulfate	17.77	1.256	905537	26377



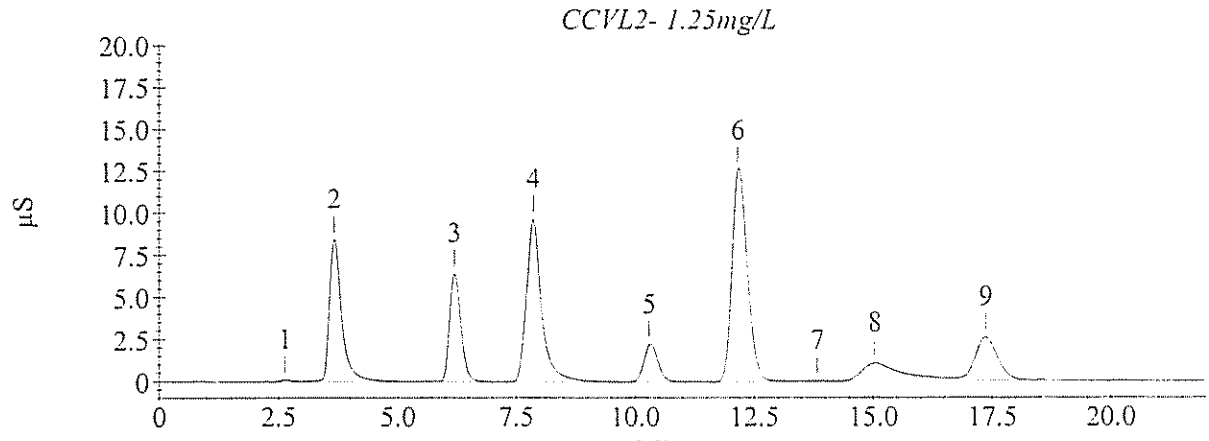
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__023.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/25/09 9:56:37 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.268	1546948	83936
3	Chloride	6.20	1.179	1062625	63687
4	Nitrite-N	7.87	1.179	2136900	96062
5	Bromide	10.30	1.217	456834	21811
6	Nitrate-N	12.17	1.186	2838060	124997
8	Phosphate-P	15.03	1.170	608948	10535
9	Sulfate	17.37	1.181	852183	25534



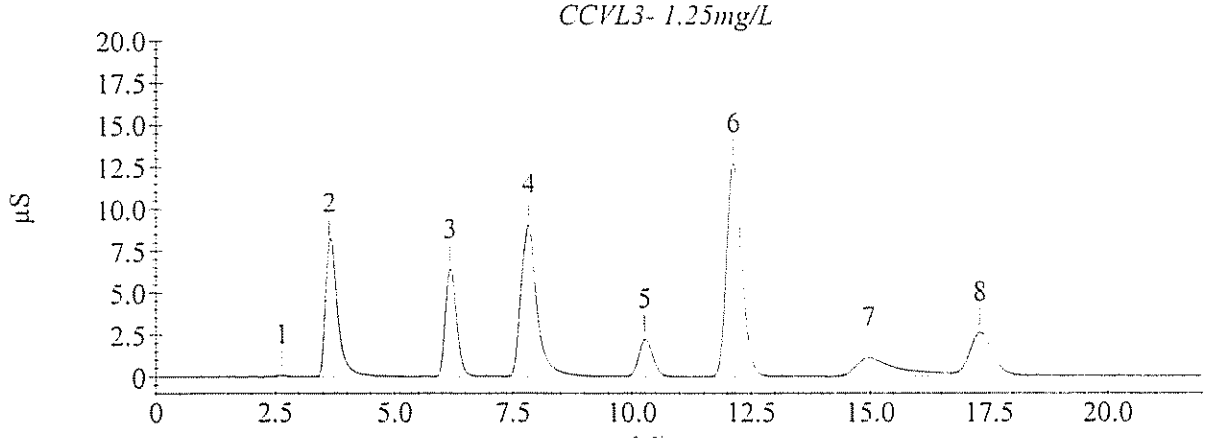
Sample Analysis Report

Sample Name : CCVL3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__036.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/26/09 3:22:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	1.202	1466255	79088
3	Chloride	6.17	1.173	1056950	63500
4	Nitrite-N	7.83	1.159	2102121	90271
5	Bromide	10.27	1.202	451037	21925
6	Nitrate-N	12.13	1.183	2830841	126786
7	Phosphate-P	14.97	1.264	659726	10967
8	Sulfate	17.30	1.188	856783	25674



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	2.00 min	
Chloride	6.60 min	2.00 min	
Nitrite-N	8.60 min	2.00 min	
Bromide	11.10 min	2.00 min	
Nitrate-N	12.53 min	2.00 min	
Phosphate-P	16.53 min	2.00 min	
Sulfate	18.63 min	2.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.60 min	0	0
Nitrite-N	8.60 min	0	0
Bromide	11.10 min	0	0
Nitrate-N	12.53 min	0	0
Phosphate-P	16.53 min	0	0
Sulfate	18.63 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.60 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.60 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.10 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.53 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.53 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.63 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.19633e+006
2	5.00	6.79909e+006
3	10.00	1.4197e+007
4	15.00	2.23583e+007
5	25.00	3.24666e+007
6	50.00	5.95621e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.17209e+006
2	5.00	4.74491e+006
3	10.00	1.09177e+007
4	15.00	1.81901e+007
5	25.00	3.02302e+007
6	50.00	6.49975e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.50237e+006
2	5.00	9.32687e+006
3	10.00	1.88466e+007
4	15.00	2.84344e+007
5	25.00	4.30083e+007
6	50.00	7.78228e+007

CD20 Component = Bromide Levels Table

Retention Time : 11.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	944915
2	5.00	1.94188e+006
3	10.00	4.22448e+006
4	15.00	6.96738e+006
5	25.00	1.20925e+007
6	50.00	2.71285e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.0797e+006
2	5.00	1.34786e+007
3	10.00	2.97651e+007
4	15.00	4.68262e+007
5	25.00	7.95557e+007
6	50.00	1.68531e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.91979e+006
2	5.00	4.10318e+006
3	10.00	9.26053e+006
4	15.00	1.50936e+007
5	25.00	2.73147e+007
6	50.00	5.84703e+007

CD20 Component = Sulfate Levels Table

Retention Time : 18.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.51196e+006
2	5.00	3.10193e+006
3	10.00	6.7792e+006
4	15.00	1.0794e+007
5	25.00	1.95858e+007
6	50.00	4.20941e+007

CD20 XY Data Parameters

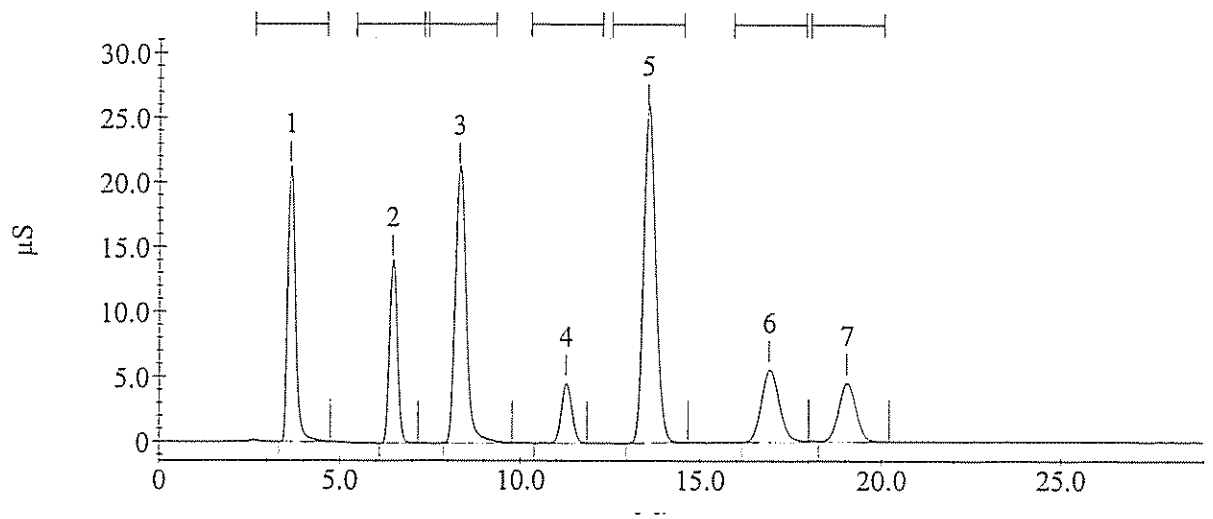
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__009.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:35:27 PM
Calibration Date : 9/18/08 1:45:07 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.63	3490609	3196333	3196333
2	Chloride	6.43	2340736	2172090	2172090
3	Nitrite-N	8.30	4788476	4502370	4502370
4	Bromide	11.27	910060	944915	944915
5	Nitrate-N	13.53	6100255	6079699	6079699
6	Phosphate-P	16.90	1989759	1919795	1919795
7	Sulfate	19.03	1509227	1511958	1511958



Calibration Update Report

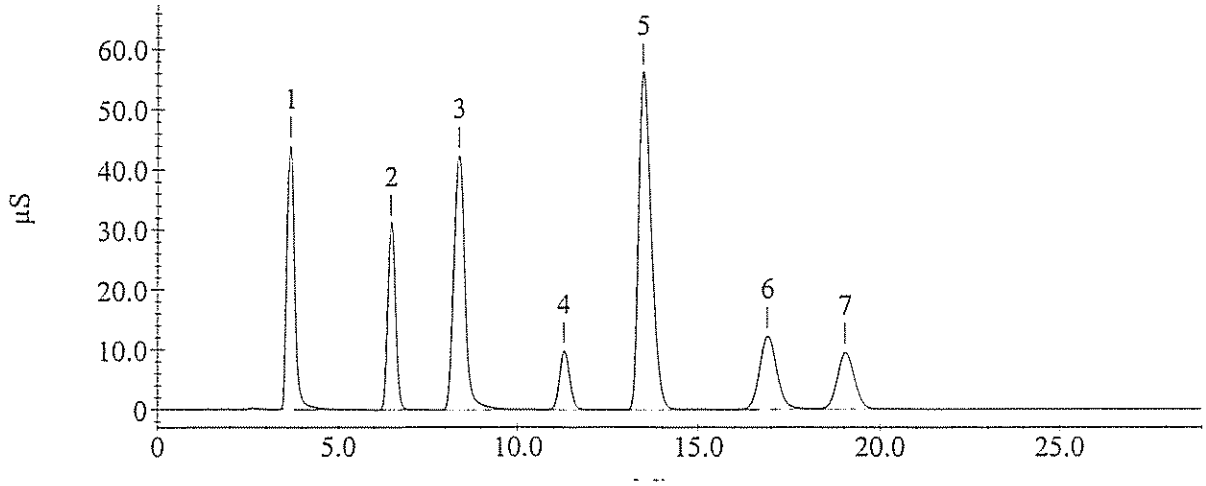
Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__010.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:07:45 PM
Calibration Date : 9/18/08 1:46:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	7163728	6799090	6799090
2	Chloride	6.47	4951970	4744908	4744908
3	Nitrite-N	8.37	9622812	9326874	9326874
4	Bromide	11.27	1886735	1941879	1941879
5	Nitrate-N	13.47	13547415	13478598	13478598
6	Phosphate-P	16.90	4333106	4103184	4103184
7	Sulfate	19.03	3220366	3101926	3101926

STD 2 - 5.00 mg/L



Calibration Update Report

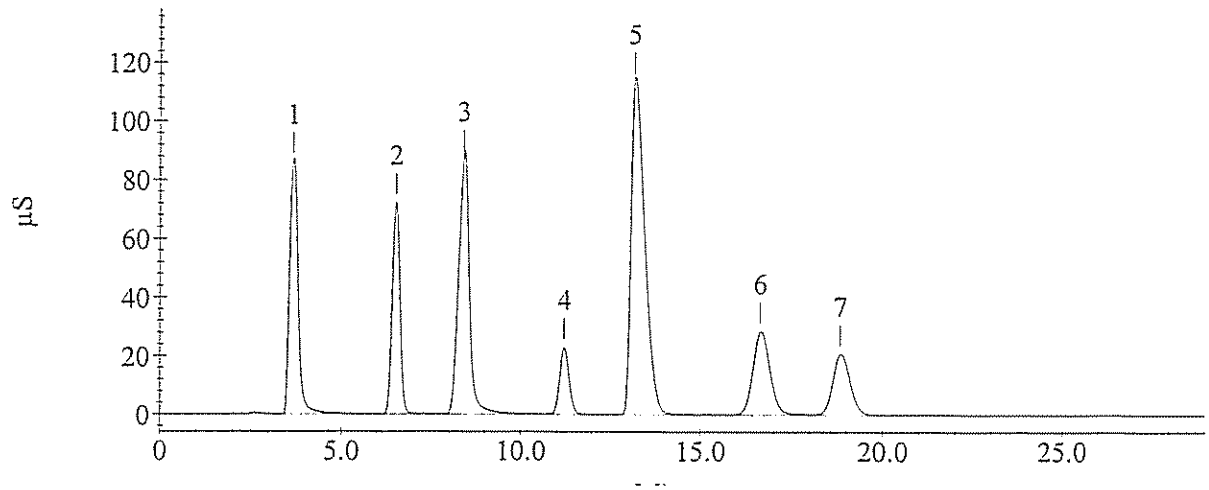
Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__011.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:39:59 PM
Calibration Date : 9/18/08 1:46:56 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	15827968	14197049	14197049
2	Chloride	6.50	12391700	10917702	10917702
3	Nitrite-N	8.40	20828057	18846586	18846586
4	Bromide	11.20	4468055	4224476	4224476
5	Nitrate-N	13.17	32002772	29765135	29765135
6	Phosphate-P	16.63	10155360	9260527	9260527
7	Sulfate	18.83	7254458	6779202	6779202

STD 3 - 10.0 mg/L



Calibration Update Report

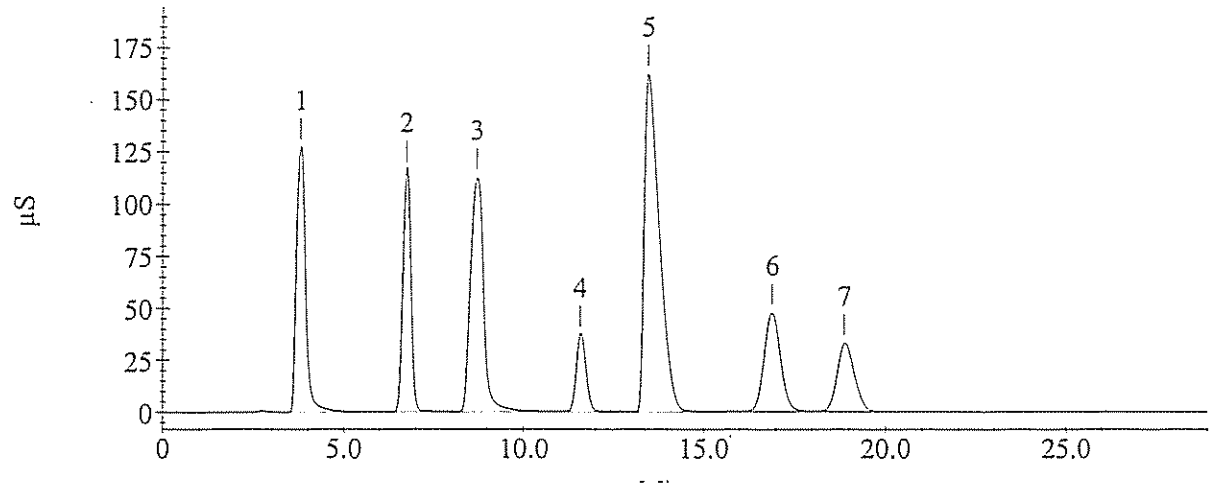
Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__012.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:12:14 PM
Calibration Date : 9/18/08 1:55:13 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.80	22029611	22358309	22358309
2	Chloride	6.73	18865697	18190071	18190071
3	Nitrite-N	8.70	29289300	28434383	28434383
4	Bromide	11.57	7016812	6967382	6967382
5	Nitrate-N	13.47	50292581	46826178	46826178
6	Phosphate-P	16.90	16723468	15093639	15093639
7	Sulfate	18.87	11671317	10793955	10793955

STD 4 - 15.0 mg/L



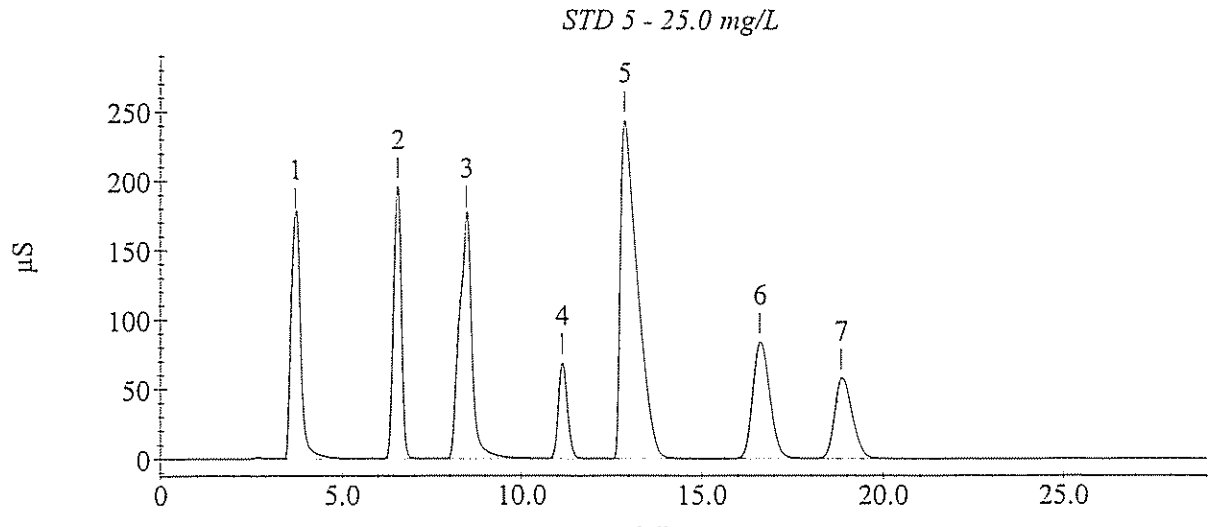
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__013.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:44:30 PM
Calibration Date : 9/18/08 1:55:31 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.70	33007779	32466619	32466619
2	Chloride	6.53	32580429	30230161	30230161
3	Nitrite-N	8.47	44840173	43008339	43008339
4	Bromide	11.13	12419665	12092529	12092529
5	Nitrate-N	12.87	83601485	79555670	79555670
6	Phosphate-P	16.60	28101078	27314683	27314683
7	Sulfate	18.83	19423982	19585760	19585760



Calibration Update Report

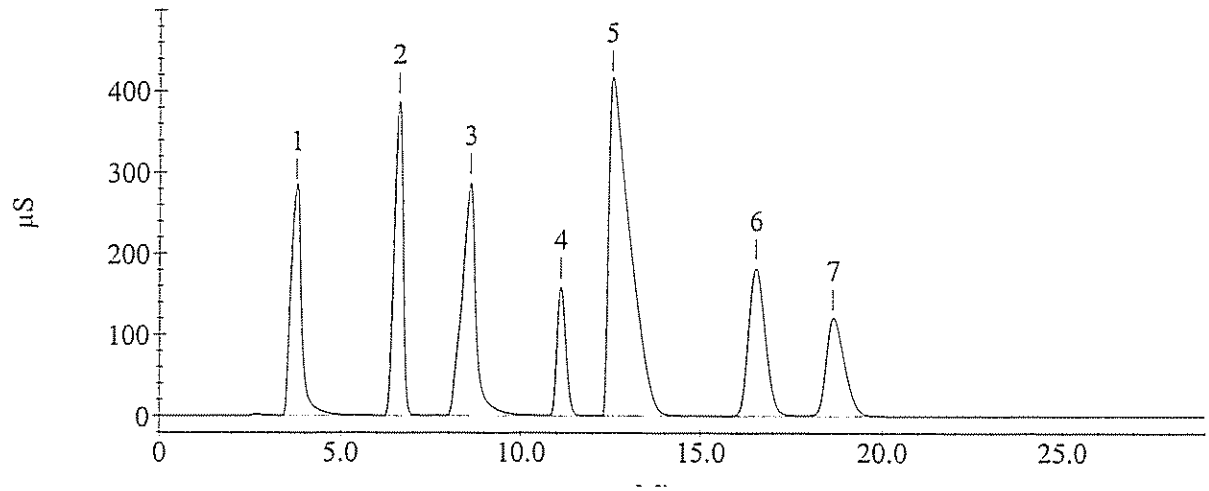
Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__014.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 9:16:45 PM
Calibration Date : 9/18/08 1:55:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.77	61202691	59562057	59562057
2	Chloride	6.60	68397328	64997521	64997521
3	Nitrite-N	8.60	78043406	77822760	77822760
4	Bromide	11.10	26985167	27128528	27128528
5	Nitrate-N	12.53	170058779	168531288	168531288
6	Phosphate-P	16.53	60044391	58470285	58470285
7	Sulfate	18.63	41693235	42094125	42094125

STD 6 - 50.0 mg/L



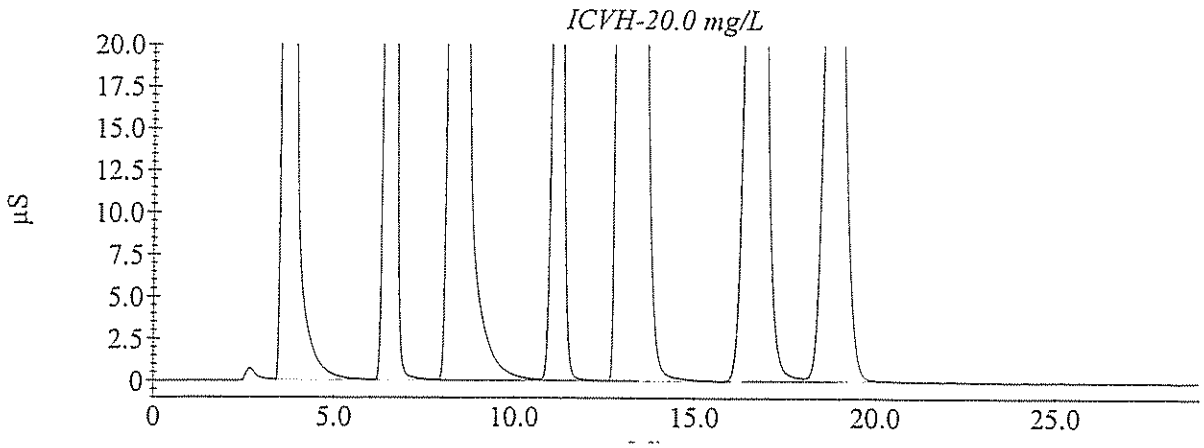
Sample Analysis Report

Sample Name : ICVH-20.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__016.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 9/17/08 10:21:17 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	19.970	27365306	1532443
2	Chloride	6.53	19.882	24486856	1608579
3	Nitrite-N	8.47	22.633	37577280	1419007
4	Bromide	11.17	18.982	9475913	530938
5	Nitrate-N	12.97	19.672	63390755	2049592
6	Phosphate-P	16.60	19.427	21178030	659102
7	Sulfate	18.80	19.274	15149498	460473



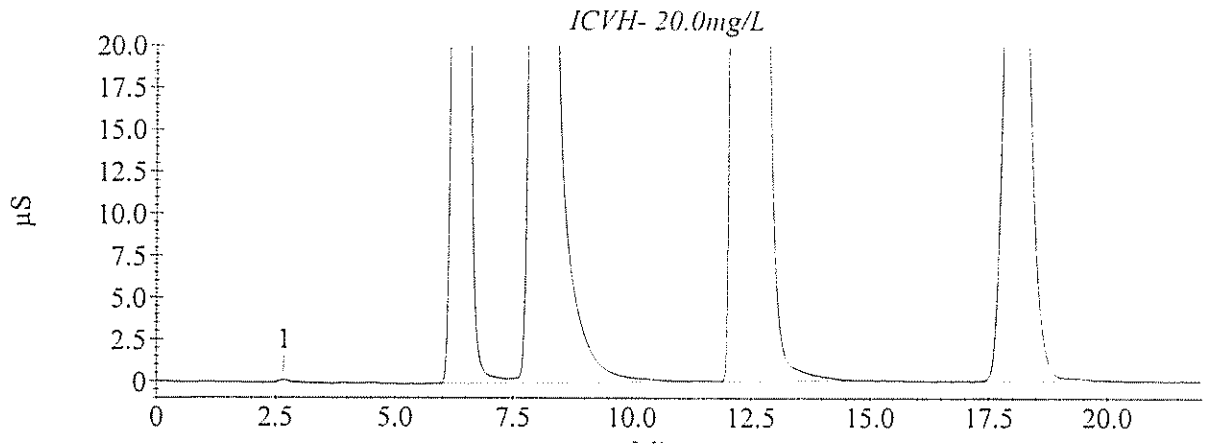
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__003.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/11/09 1:39:54 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	42280	1670
2	Chloride	6.37	21.204	26244230	1572974
3	Nitrite-N Bromide	8.03	23.252	38529551	1584503
4	Nitrate-N Phosphate-P	12.23	20.710	66951467	2253684
5	Sulfate	18.03	19.889	15680901	507256



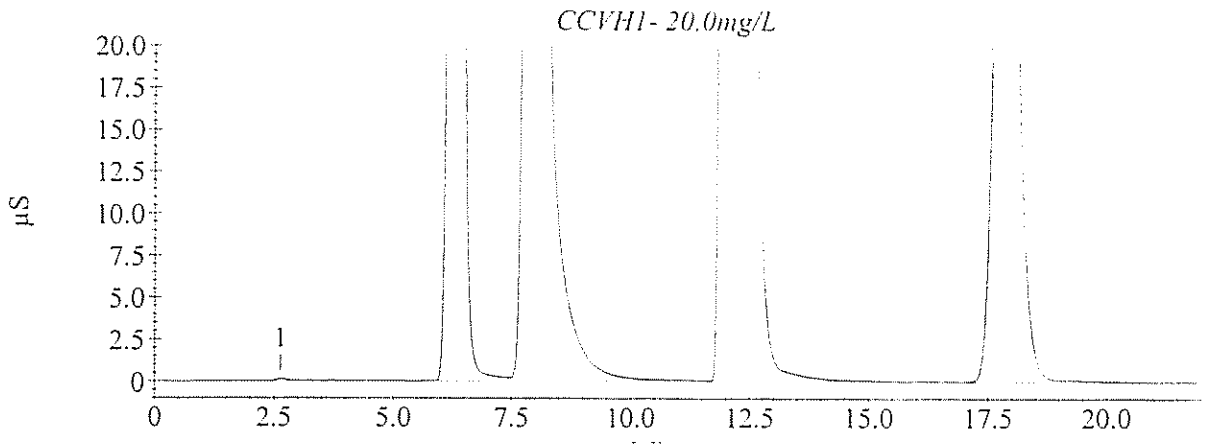
Sample Analysis Report

Sample Name : CCVH1- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__016.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/11/09 7:06:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	17056	1222
2	Chloride	6.30	20.702	25577172	1594530
3	Nitrite-N Bromide	7.93	22.675	37642891	1619445
4	Nitrate-N Phosphate-P	12.03	20.565	66455627	2266022
5	Sulfate	17.80	20.078	15843977	504274



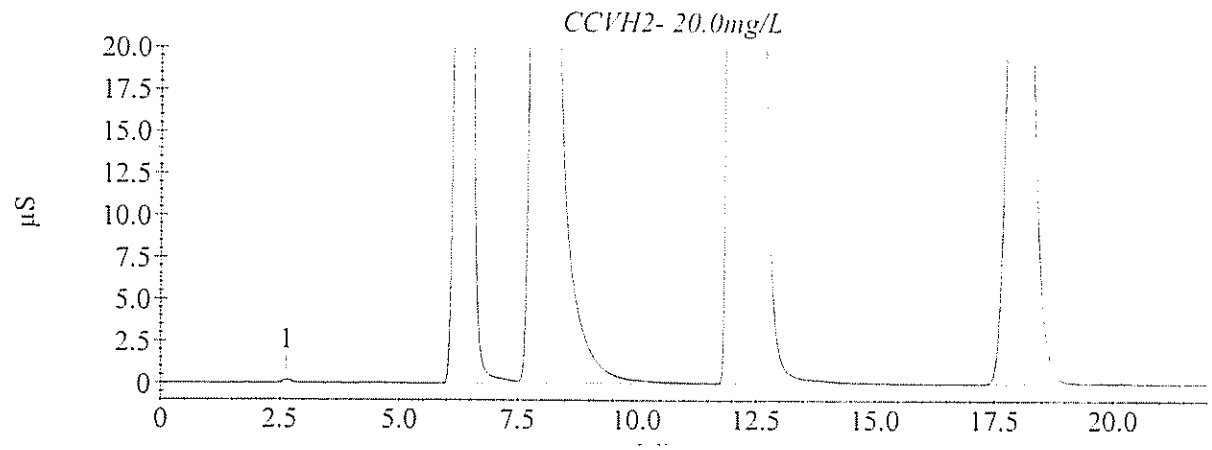
Sample Analysis Report

Sample Name : CCVH2- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__029.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/12/09 12:33:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	23038	1681
2	Chloride	6.33	20.721	25601821	1565553
3	Nitrite-N Bromide	7.97	23.205	38457431	1459605
4	Nitrate-N Phosphate-P	12.07	20.615	66627195	2284275
5	Sulfate	17.97	20.079	15844694	509109



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

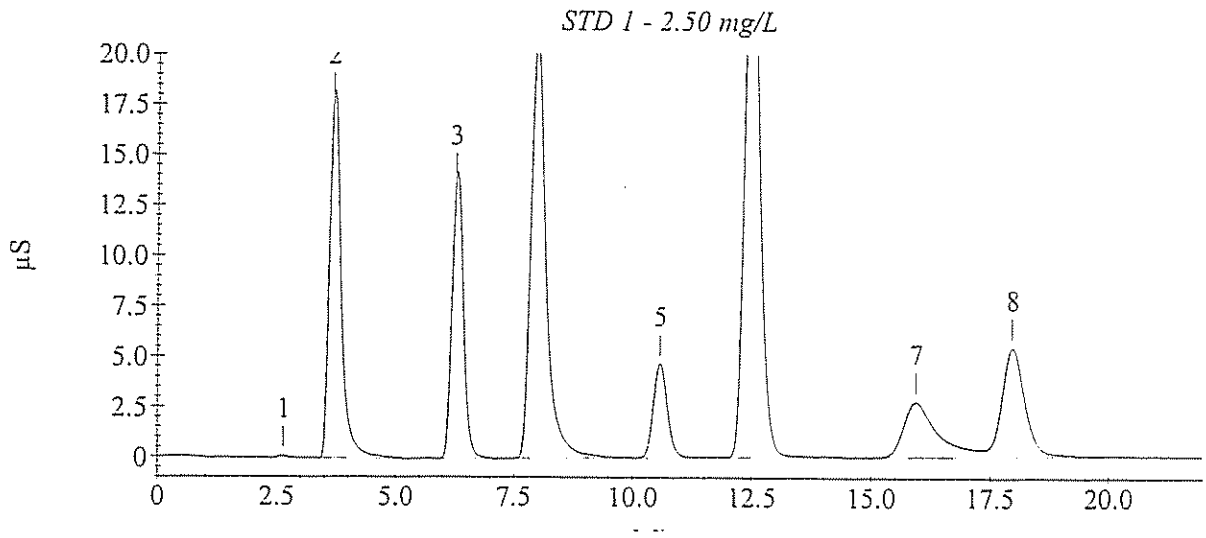
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



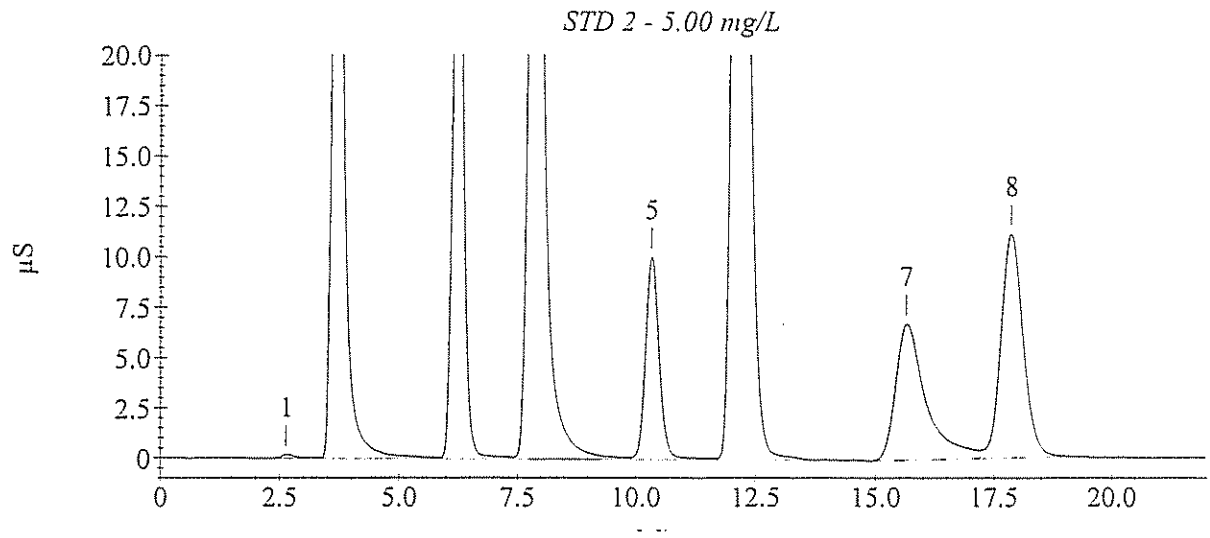
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077



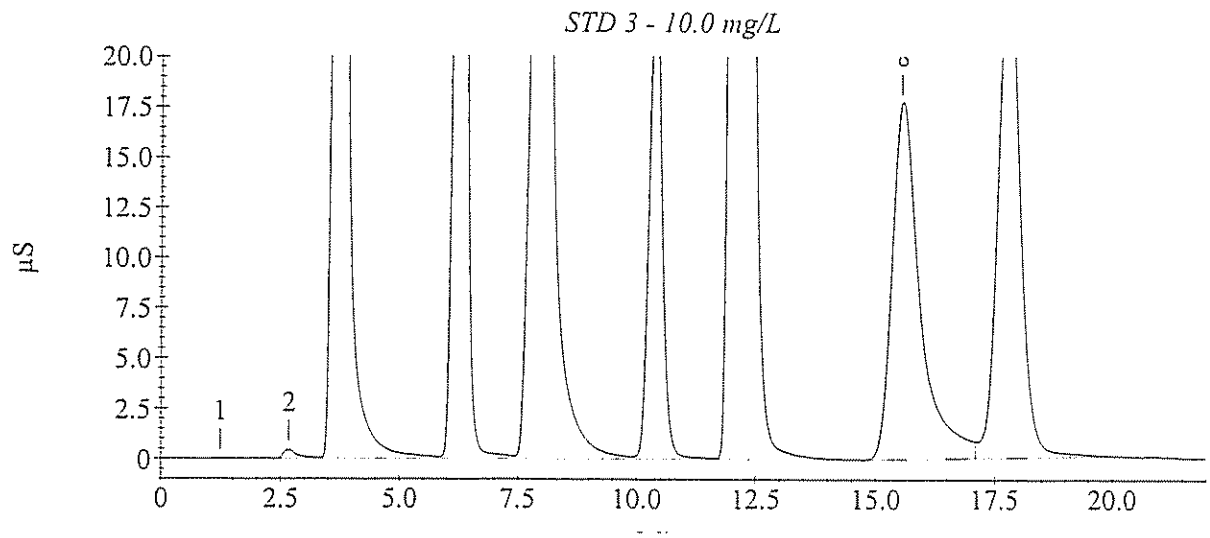
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944



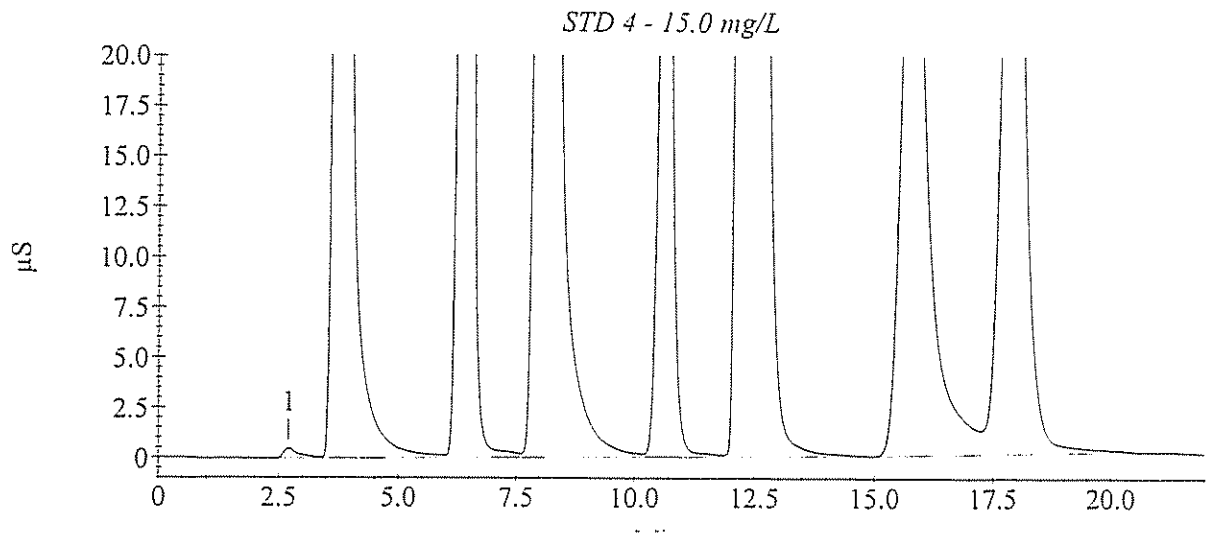
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



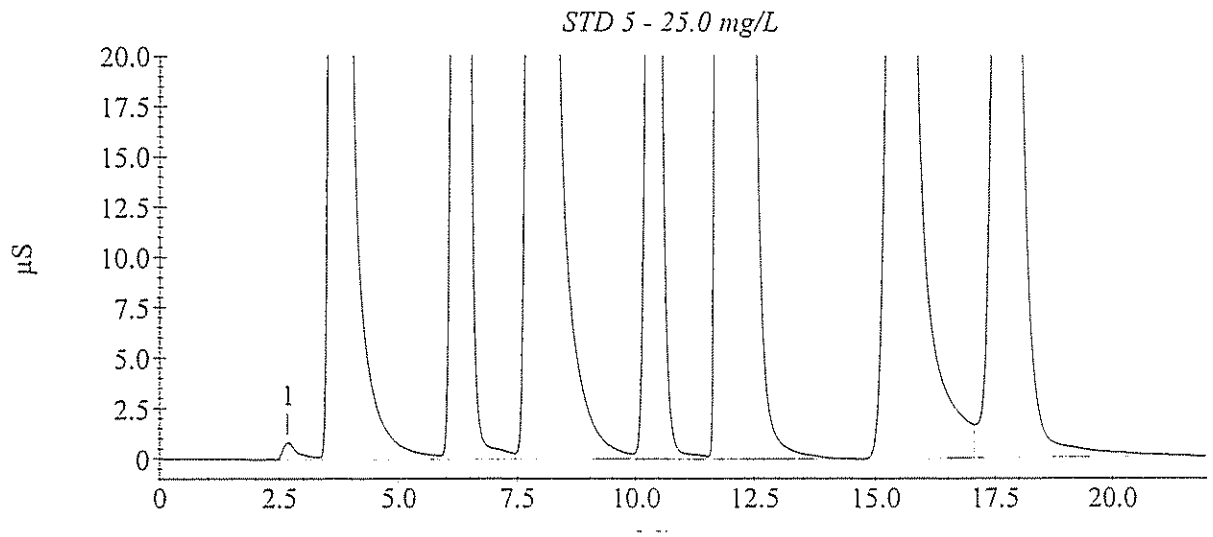
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



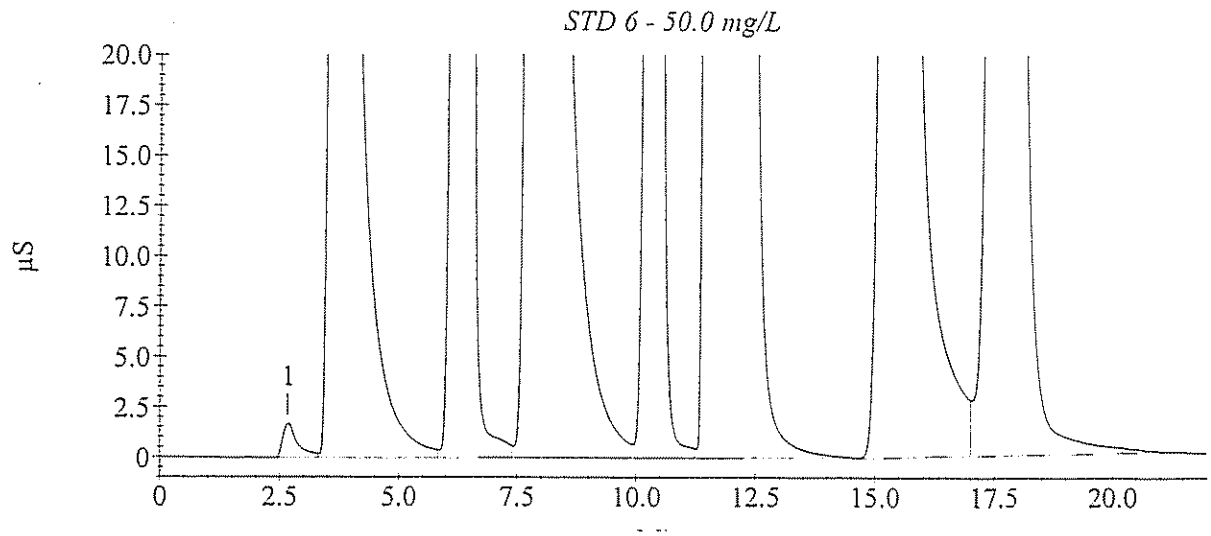
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829



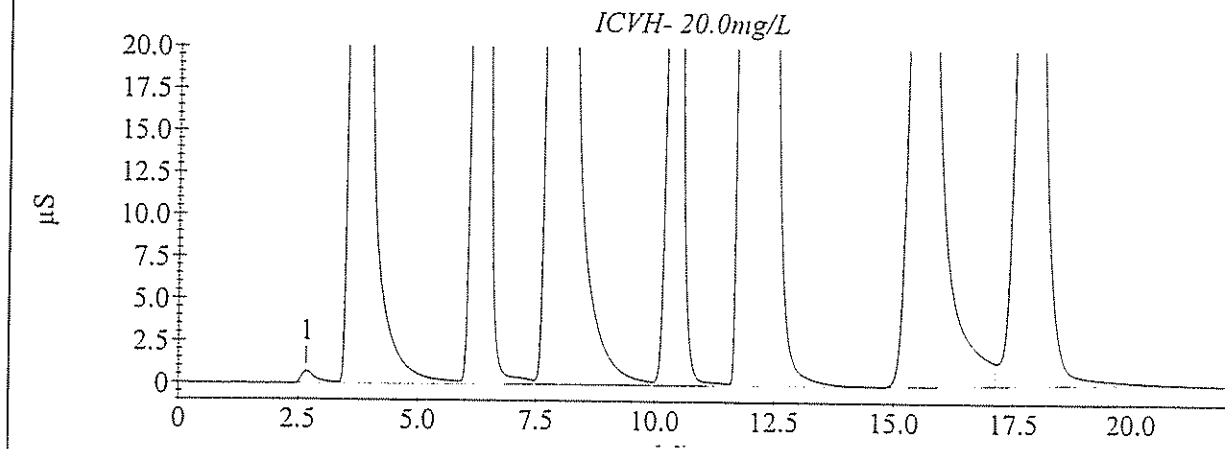
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



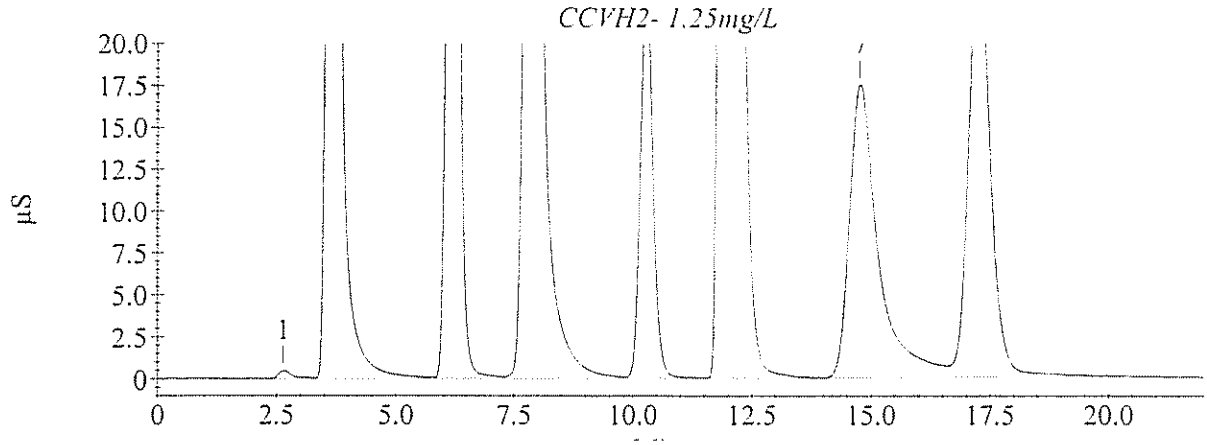
Sample Analysis Report

Sample Name : CCVH2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__024.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/25/09 10:21:41 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	9.743	14015879	755512
3	Chloride	6.17	9.472	11126792	631153
4	Nitrite-N	7.87	12.115	19101071	898419
5	Bromide	10.27	9.440	4327259	230807
6	Nitrate-N	11.93	9.868	31039458	1263760
7	Phosphate-P	14.77	9.478	7276222	174267
8	Sulfate	17.23	9.596	8090855	252967



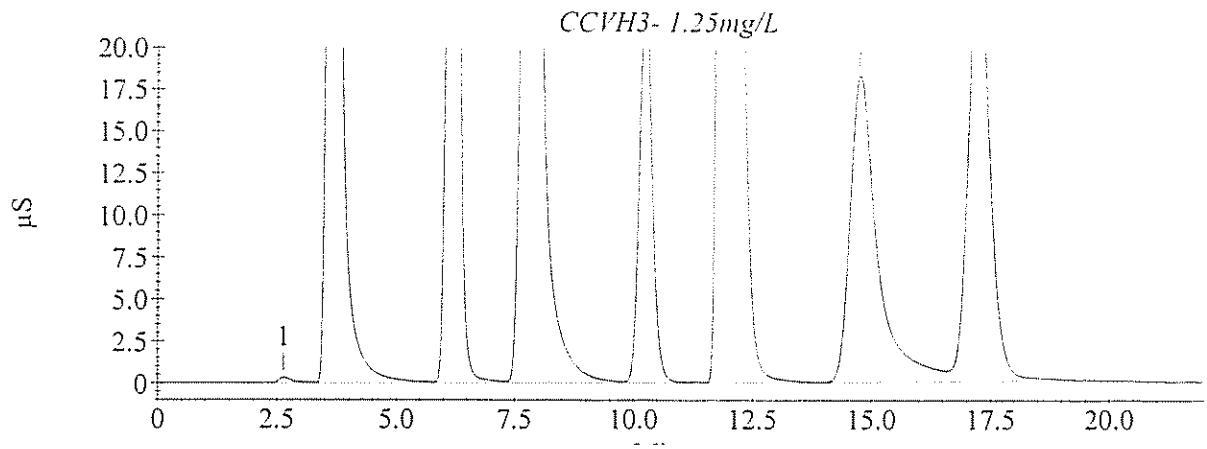
Sample Analysis Report

Sample Name : CCVH3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__037.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 3:47:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	9.671	13912167	763604
3	Chloride	6.17	9.516	11186718	685205
4	Nitrite-N	7.83	12.045	19010762	835902
5	Bromide	10.23	9.404	4306633	228108
6	Nitrate-N	11.90	9.841	30945297	1256793
7	Phosphate-P	14.77	9.517	7318148	182147
8	Sulfate	17.20	9.457	7949216	248531



D. Raw QC Data

1. Extraction Logsheet (where applicable)

2. Injection Logsheet (where applicable)

GPL Laboratories, LLLP

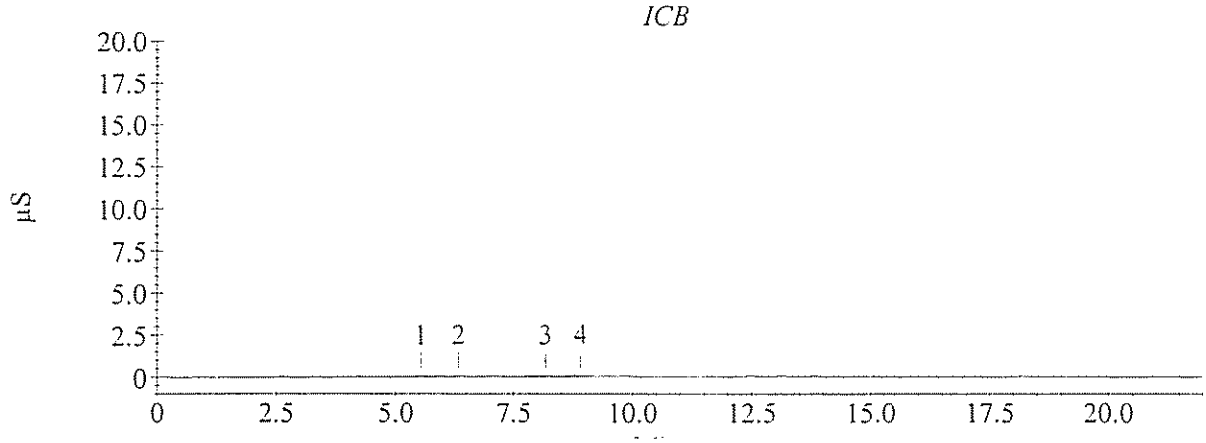
Sample Analysis Report

Sample Name : ICB
Data File Name : I:\ICDATA\IC500\090311\090311__004.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 2:05:03 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		5.53	0.000	3414	337
2	Chloride	6.33	0.025	5898	406
3	Nitrite-N	8.17	0.035	11643	400
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



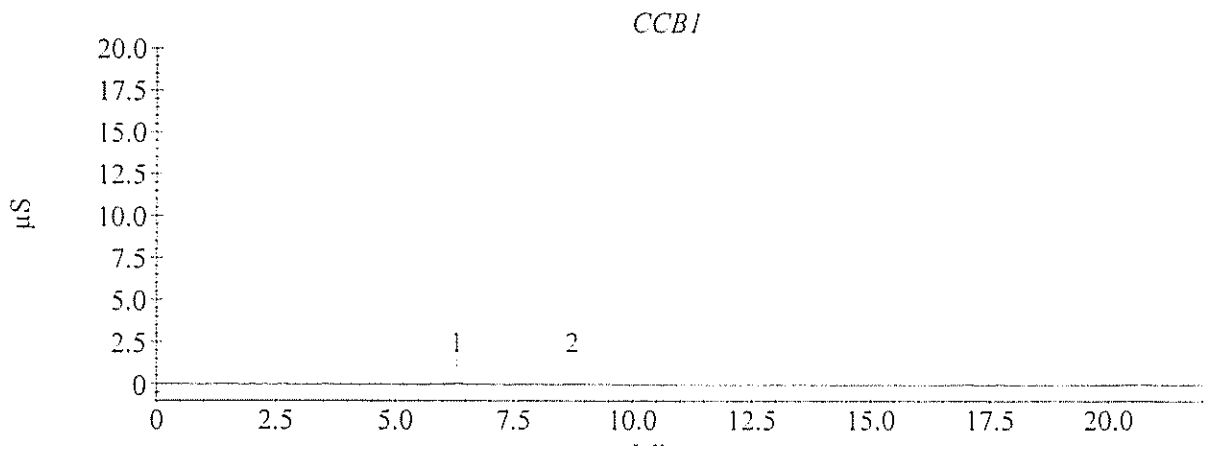
Sample Analysis Report

Sample Name : CCB1
Data File Name : I:\ICDATA\IC500\090311\090311__017.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 7:31:43 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Chloride	6.30	0.030	10189	562
1	Chloride	6.30	0.030	10189	562
2	Nitrite-N	8.73	0.034	9098	425
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



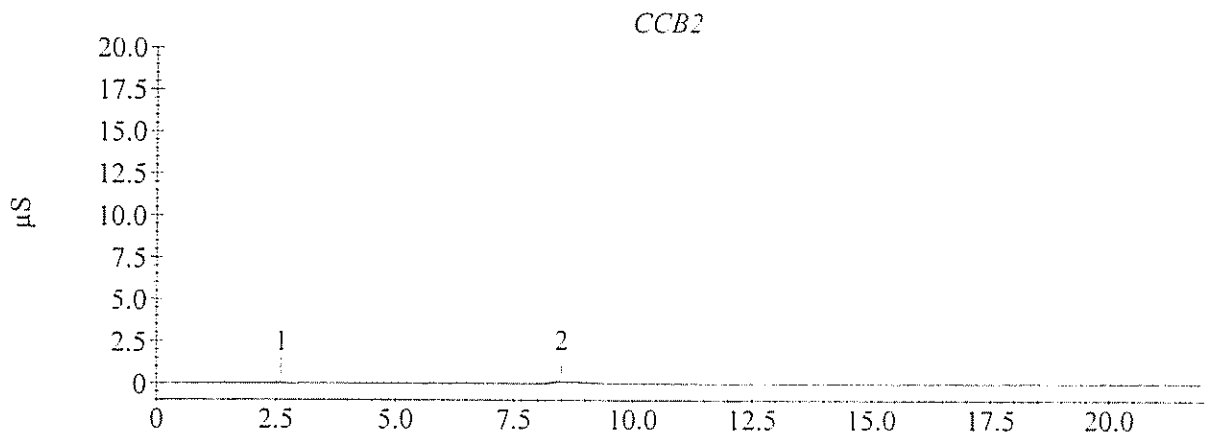
Sample Analysis Report

Sample Name : CCB2
Data File Name : I:\ICDATA\IC500\090311\090311__030.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 12:58:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Chloride	2.60	0.000	7587	638
2	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	8.50	0.058	51035	1131



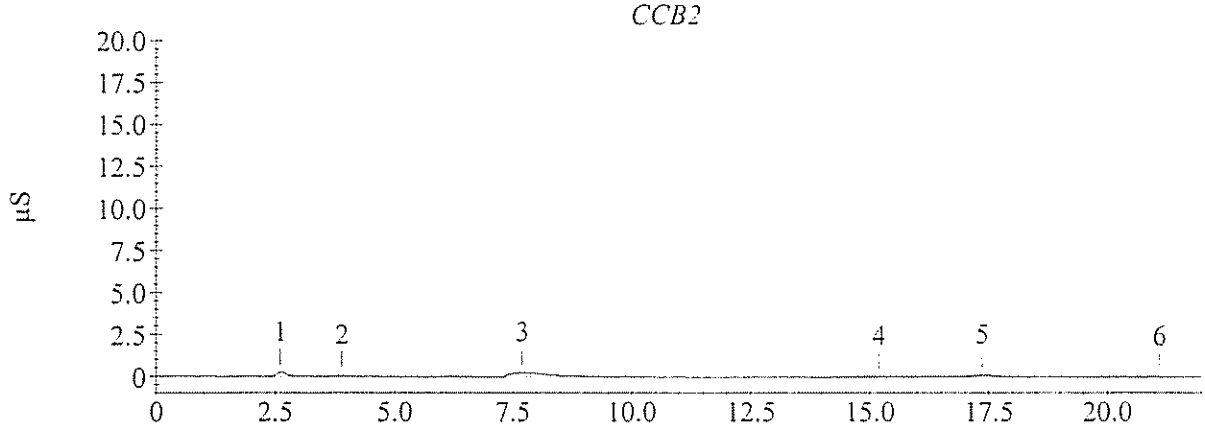
Sample Analysis Report

Sample Name : CCB2
Data File Name : I:\ICDATA\IC500\090325\090325__025.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/25/09 10:46:46 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.90	0.015	6635	457
	Chloride				
3	Nitrite-N	7.70	0.058	139676	2568
	Bromide				
	Nitrate-N				
4	Phosphate-P	15.20	0.065	10955	227
5	Sulfate	17.37	0.043	37220	1037



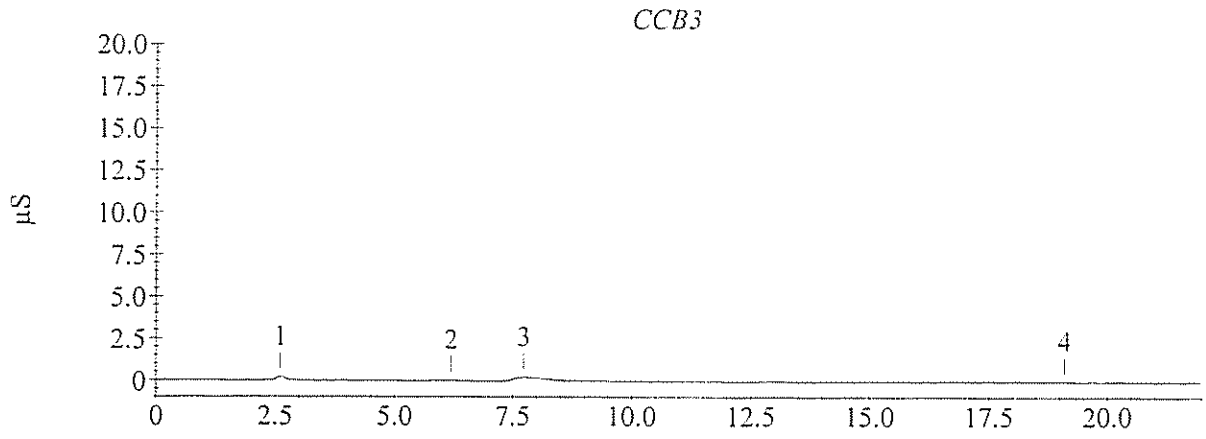
Sample Analysis Report

Sample Name : CCB3
Data File Name : I:\ICDATA\IC500\090325\090325__038.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/26/09 4:12:07 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	27989	1953
2	Chloride	6.20	0.025	8154	409
3	Nitrite-N	7.73	0.036	100379	2047
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



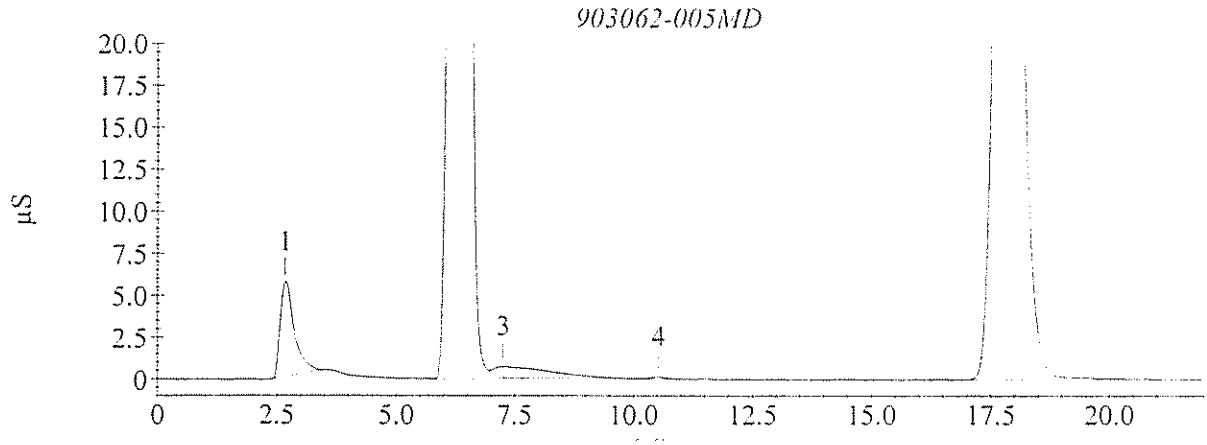
Sample Analysis Report

Sample Name : 903062-005MD
Data File Name : I:\ICDATA\IC500\090311\090311__021.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 9:12:05 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	0.943	1171624	56131
2	Chloride	6.40	30.157	25820490	1194314
	Nitrite-N				
4	Bromide	10.53	0.079	22255	1078
	Nitrate-N				
	Phosphate-P				
5	Sulfate	17.80	35.453	21783112	630566



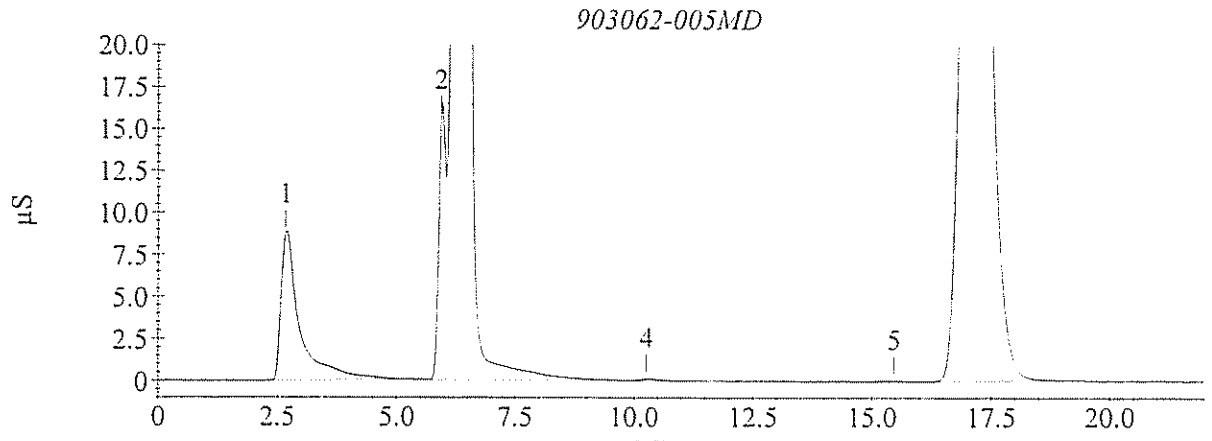
Sample Analysis Report

Sample Name : 903062-005MD
Data File Name : I:\ICDATA\IC500\090325\090325__031.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/26/09 1:17:00 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	2423503	86438
3	Chloride Nitrite-N	6.40	18.965	24181830	1153578
4	Bromide Nitrate-N	10.27	1.958	25173	1010
5	Phosphate-P	15.47	2.775	11326	328
6	Sulfate	17.10	22.411	21205866	552512



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-038-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/11/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	27	
14797-55-8	Nitrate	1.2	
7727-37-9	Nitrite	1.1	

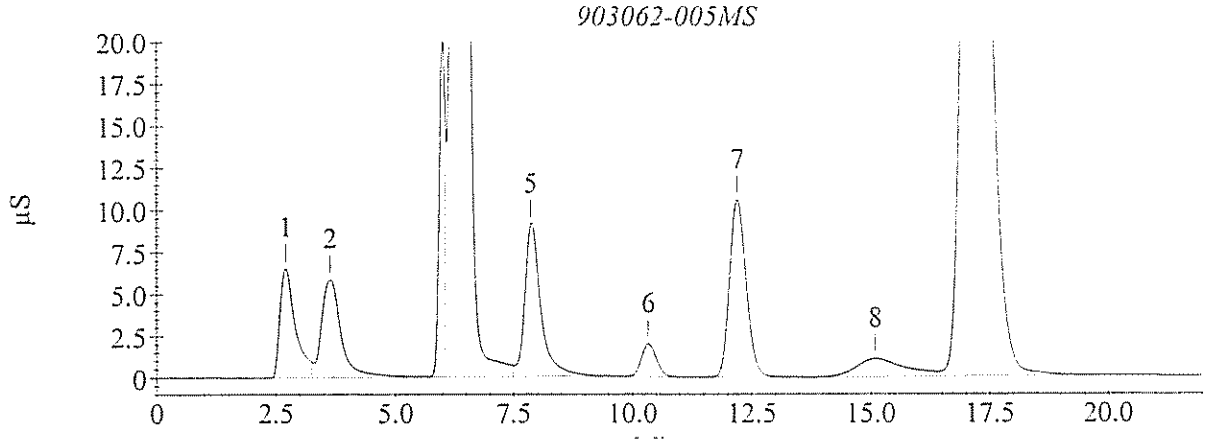
Sample Analysis Report

Sample Name : 903062-005MS
Data File Name : I:\ICDATA\IC500\090325\090325__032.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/26/09 1:42:00 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	1.361	1660749	58377
3	Chloride	6.00	1.881	1704374	198990
5	Nitrite-N	7.87	1.173	2126318	90352
6	Bromide	10.33	1.151	431545	19532
7	Nitrate-N	12.20	1.072	2553467	105418
8	Phosphate-P	15.10	1.440	755172	10719
9	Sulfate	17.17	31.830	22792455	647911



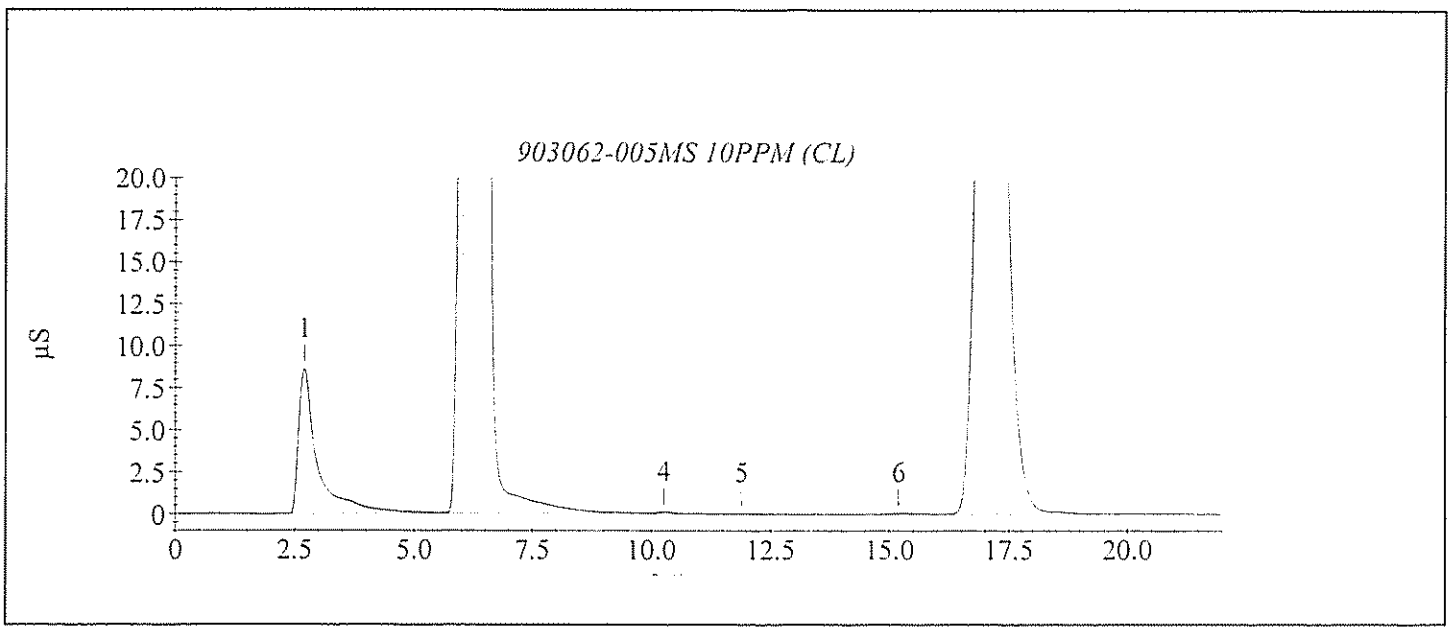
Sample Analysis Report

Sample Name : 903062-005MS 10PPM (CL)
Data File Name : I:\ICDATA\IC500\090325\090325__033.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 2:06:58 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.70	0.000	2396918	85815
3	Chloride Nitrite-N	6.43	26.908	35106806	1631338
4	Bromide	10.27	1.956	24472	1010
5	Nitrate-N	11.90	1.099	7128	295
6	Phosphate-P Sulfate	15.20	2.776	13020	495



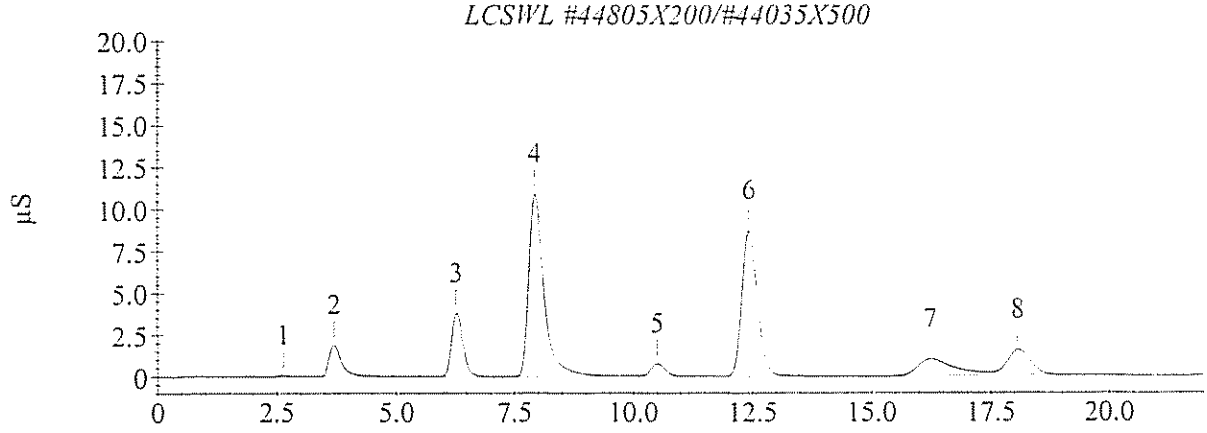
Sample Analysis Report

Sample Name : LCSWL #44805X200/#44035X500
Data File Name : I:\ICDATA\IC500\090311\090311__005.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/11/09 2:30:12 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	0.307	345811	18702
3	Chloride	6.27	0.769	643412	37490
4	Nitrite-N	7.93	1.408	2448856	108467
5	Bromide	10.50	0.438	153791	7432
6	Nitrate-N	12.43	0.871	1983516	87014
7	Phosphate-P	16.23	0.706	522970	10019
8	Sulfate	18.07	0.878	525486	15107



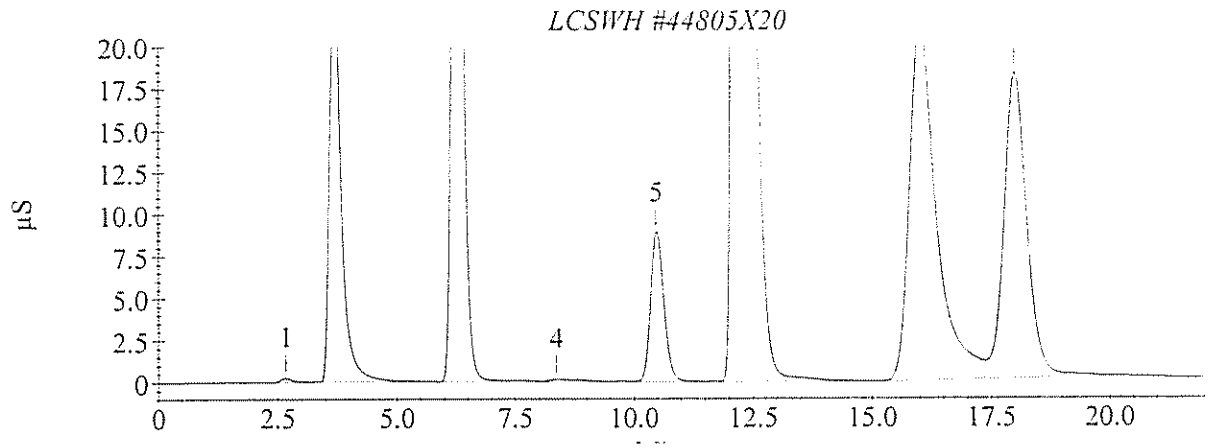
Sample Analysis Report

Sample Name : LCSWH #44805X20
Data File Name : I:\ICDATA\IC500\090311\090311__006.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/11/09 2:55:20 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	3.051	4089812	233591
3	Chloride	6.27	7.611	8179061	504517
4	Nitrite-N	8.37	-1.760	57034	1209
5	Bromide	10.47	5.030	1716253	88002
6	Nitrate-N	12.20	9.040	26931258	1094942
7	Phosphate-P	16.00	8.773	8355286	212682
8	Sulfate	18.00	8.910	6201087	181597



ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date: _____

Analytes(s):	F, Cl, NO_2-N, Br, NO_3-N, PO_4, SO_4
Analysis Method:	E300
Backpressure:	2031 psi Conductivity: 23.068 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #0132201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 080917L-300-0.met/080917H-300-0.met ICAL Date: 9/17/08 Analyst: JCSA

Seq. ID. 080917-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
080917-001.dxd	Rinse				
2	Rinse				
3	Std1 - Cal Blank	1	Std	9/17/08	080917L
4	Std 2 - 0.10 mg/L	1			
5	Std 3 - 0.25 mg/L	1			
6	Std 4 - 0.50 mg/L	1			
7	Std 5 - 1.00 mg/L	1			
8	Std 6 - 2.50 mg/L	1			
9	Std 1 - 2.50 mg/L	1			080917H
10	Std 2 - 5.00 mg/L	1			
11	Std 3 - 10.0 mg/L	1			
12	Std 4 - 15.0 mg/L	1			
13	Std 5 - 25.0 mg/L	1			
14	Std 6 - 50.0 mg/L	1			
15	ICVL - 1.25 mg/L	1			
16	ICVH - 20.0 mg/L	1			
17	ICB	1			
18	LCSWL #43967x125 / #44035x500	125/500			
19	LCSWH #43967x10	10			
20	809080-001	1	H_2O	9/18/08	
21	-001MD	1			
22	-001MS	1			
23	TCVL1 - 1.25 mg/L	1	Std		
24	CCVH1 - 20.0 mg/L	1			
080917-025.dxd	CCB1	1			

Remarks

★ #43967 T.V.'s (mg/L)

F = 10.6
Cl = 20.4
NO_3-N = 82.4
SO_4 = 202

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate eluent	43991 9mM 8/25/08
Mixed Anions Stock Std	43504 100 PPM 6/26/08
Mixed Anions QC Std	43967 ★ exp's 7/1/10
Nitr. Br QC Std	44035 732 mg/L exp's 8/1/10
Mixed Anions ~~QC~~ Stock Std (ICV)	44123 1000 ppm 9/17/08

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	F, Cl, SO_4, Br, NO_3-N, PO_4-P, NO_2-N
Analysis Method:	E300
Backpressure:	2200 psi Conductivity: 23.741 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #012201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.mcd / 090318H-300-0.mcd ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090318-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090318-001.dxd	Rinse	—	—	—	
2	ICVLA - 1.25 mg/L	1	Std	3/18/09	
3	ICVLB - 1.25 mg/L	1			
4	ICB	1			
5	Std1 - BLK	1			090318L
6	Std2 - 0.10 mg/L	1			
7	Std3 - 0.25 mg/L	1			
8	Std4 - 0.50 mg/L	1			
9	Std5 - 1.00 mg/L	1			
10	Std6 - 2.50 mg/L	1			↓
11	Std1 - 2.50 mg/L	1			090318H
12	Std2 - 5.00 mg/L	1			
13	Std3 - 10.0 mg/L	1			
14	Std4 - 15.0 mg/L	1			
15	Std5 - 25.0 mg/L	1			
16	Std6 - 50.0 mg/L	1			↓
17	ICVL - 1.25 mg/L	1			
18	ICVH - 20.0 mg/L	1			
19	ICB	1	↓		
20	BLK903095	1	wipe		
21	BLS903095	1			
22	903095-001	1			
23	BLK903105	1			
24	BLS903106	1			
25	903105-001	1			
26	↓ -002	1			
090318-027.dxd	↓ -003	1	↓	3/18/09	

Remarks

☆ # 45307 I.V. 's (mg/L)

Cl: 157.8

NO_3-N: 187.2

SO_4: 168.6

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Elvent	43373 9 mM 3/12/09
Mixed Anions Stock Std (Curve)	45409 100 mg/L 3/18/09
Mixed Anions Stock Std (ICV/CV)	45026 100 mg/L 1/26/09
Mixed Anions QC Std	45307 ☆ exp's 11/1/11
Nitrate QC Std	44035 732 mg/L exp's 8/1/11

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N, SO_4
Analysis Method:	E300
Backpressure:	2122 psi Conductivity: 23.662 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	—
Eluent level check:	—

Guard Column ID:	AG9-HC #013201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090317L-300-0.met / 090317H-300-0.met ICAL Date: 9/17/08 Analyst: JCSA

Seq. ID. 090311_300.sdh

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090311-001.dxd	Rinse	—	—	—	
2	ICVL-1.25mg/L	1	Std	3/11/09	
3	ICVH-20.0mg/L	1			
4	ICB	1			
5	LCSWL #44805x200/#44035x500	200/500			
6	LCSWH #44805x20	20			
7	903057-002	1	H_2O		
8	-002MD	1			
9	-002MS	1			
10	-003	1			
11	-004	1			
12	-005	1			
13	903062-001	1			
14	-002	1			
15	CCVL-1.25mg/L	1	Std		
16	CCVH-20.0mg/L	1			
17	CCB1	1			
18	903062-003	1	H_2O		
19	-004	1			
20	-005	1			
21	-005MD	1			
22	-005MS	1			
23	-006	1			
24	908125-001	1			
25	-001MD	1			
26	-001MS 10ppm	1			
090311-027.dxd	-002	1		3/11/09	

Remarks

★ #44805 T.V.'s (mg/L)
Cl=158
NO_3-N=187
SO_4=169

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45323 9mM 3/4/09
Mixed Anion Stock Std	45325 1000mg/L 3/5/09
Mixed Anion QC Std	44805 ★ exp's 11/1/11
Nitrite QC Std	44035 732mg/L exp's 8/1/10
Chloride Stock Std	43551 1000mg/L exp's 4/1/10
Sulfate Stock Std	43552 1000mg/L exp's 1/1/10

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N, SO_4
Analysis Method:	E300
Backpressure:	2122 psi Conductivity: 23.662 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	
Analysis Column ID:	See p. 24
ATC ID:	

ICAL Method File: 080917L-300-0.met / 080917H-300-0.met ICAL Date: 9/17/08 Analyst: JCSA

Seq. ID. 090311-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090311-028.dxd	CCVL2-1.25 mg/L	1	Std	3/12/09	
29	CCVH2-20.0 mg/L	1	↓	↓	
30	CCB2	1	↓	↓	
31	902125-002 MS	1	H_2O	↓	
32	-002 MS 100ppm	1	↑	↓	
33	-003 5x	5	↓	↓	
34	-004 5x	5	↓	↓	
35	-005 10x	10	↓	↓	
36	-006 10x	10	↓	↓	
37	-007 100x	100	↓	↓	
38	-008 100x	100	↓	↓	
39	-009 100x	100	↓	↓	
40	↓ -010 100x	100	↓	↓	
41	CCVH3-20.0 mg/L	1	Std	↓	
42	CCB3	1	↓	↓	
43	902118-007 1000x	1000	H_2O	↓	
44	↓ -008 1000x	1000	↓	↓	
45	902125-011 10x	10	↓	↓	Rerun w/ CCVL's
46	-011 400x	400	↓	↓	↓
47	-012 10x	10	↓	↓	
48	-012 400x	400	↓	↓	
49	-013 10x	10	↓	↓	
50	-013 500x	500	↓	↓	
51	-014 10x	10	↓	↓	
52	↓ -014 500x	500	↓	↓	
53	CCVH4-20.0 mg/L	1	Std	↓	
090311-054.dxd	CCB4	1	↓	3/12/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
	See p. 24	

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_3-N, SO_4
Analysis Method:	6300
Backpressure:	2427 µS Conductivity: 2187 psi
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #013201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.mxt / 090318H-300-0.mxt ICAL Date: ~~3/18/09~~ 3/18/09 Analyst: JCSA

Seq. ID. 090325-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090325-001.dxd	Rinse	✓	✓	✓	
2	ICVL-1.25	1	Std	3/25/09	
3	ICB	1	↓		
4	903106-005 5x	5	wipe		
5	-006 10x	10			
6	-010 5x	5			
7	-011 5x	5			
8	-012 5x	5	↓		
9	LCSd #44307 x200/#44035 x50	200/50	Std		
10	CCVL1-1.25 mg/L	1			
11	CCVH1-10.0 mg/L	1			
12	CCB1	1			
13	LCSwH #44307 x20	20	↓		
14	903182-001	1	H_2O		
15	-002	1			
16	-003	1			
17	-004	1			
18	-005	1			
19	-006	1			
20	-006MD	1			
21	-006MS	1	↓		
22	903141-003 5x	5	wipe		
23	CCVL2-1.25 mg/L	1	Std		
24	CCVH2-10.0 mg/L	1			
25	CCB2	1	↓		
26	903141-004 5x	5	wipe		
090325-027.dxd	903052-002	1	H_2O	3/25/09	

Remarks #44307 T.V.'s (mg/L)

Cl = 157.8

NO_3-N = 187.2

SO_4 = 158.6

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	115440 9mM 3/21/09
Mixed Anion Stock Std	45405 100 mg/L 3/18/09
Mixed Anion QC Std	#44307 ✓ exp's
Nitrite QC Std	#44035 752 mg/L exp's
Chloride Stock Std	43551 1000 mg/L exp's 4/1/10
Sulfate Stock Std	45599 1000 mg/L exp's 1/1/11

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: **Dionex 500** Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N, SO_4
Analysis Method:	300
Backpressure:	2424 psi Conductivity: 2187 psi
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	/
Eluent level check:	✓

Guard Column ID:	
Analysis Column ID:	See p. 46
ATC ID:	

ICAL Method File: 090318L-300-0.met / 090318H-300-0.met ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090325-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090325-028.dxd	903057-002MD	1	H_2O	3/26/09	
29	↓ -002MS (10 ppm (SO_4))	1			
30	903062-005	1			
31	-005MD	1			
32	-005 MS	1			
33	↓ -005 MS 10 ppm (Cl)	1			
34	903093-007 10X	10			
35	↓ -007	1	↓		
36	CCVL3 - 1.25 mg/L	1	Std		
37	CCVH3 - 10.0 mg/L	1			
38	CCB3	1	↓		
39	903093-008MD	1	H_2O		
40	↓ -008 MS 10 ppm (Cl)	1			
41	903071-002	1			
42	-002MD	1			
43	-002MS	1			
44	↓ -002MS 10 ppm (Cl)	1	↓		
45	CCVL4 - 1.25 mg/L	1	Std		
46	CCVH4 - 10.0 mg/L	1		↓	
090325-047.dxd	CCB4	1	↓	3/26/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
	See p. 46	

SAMPLE DATA PACKAGE

RSK 175 DATA

A. QC Summary

B. Sample Data

C. Standards Data

D. Raw QC Data

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OUI-16GW01-0309MSD

Lab Name : GPL Laboratories SDG NO : 903062 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903062-006-032-1/2MSD Matrix : WATER Analysis Date : 03/20/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	31	31	0.0	30	29	97	94	3	25	80-120
Ethene	29	29	0.0	26	25	90	86	5	25	80-120
Methane	16	16	0.0	16	16	100	100	0	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 0 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
TPH METHOD BLANK SUMMARY

SAMPLE NO
BLK108780

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	108780
Lab File ID :	G262572.D	SDG NO :	903062
Date Analyzed	03/20/2009	Lab Sample ID :	BLK108780
Date Extracted :	03/20/2009	Time Analyzed :	10:55
Matrix :(Soil/Water).	WATER	Level :(Low/Med)	

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
OUI-EB-031009	903062-001-022-1/2	G262573.D	03/20/2009
OUI-FB-031009	903062-002-024-1/2	G262574.D	03/20/2009
OUI-16GW16-0309	903062-003-026-1/2	G262575.D	03/20/2009
OUI-MW51-0309	903062-004-028-1/2	G262576.D	03/20/2009
OUI-MW50-0309	903062-005-030-1/2	G262577.D	03/20/2009
OUI-16GW01-0309	903062-006-032-1/2	G262578.D	03/20/2009
OUI-16GW01-0309MS	903062-006-032-1/2MS	G262579.D	03/20/2009
OUI-16GW01-0309MSD	903062-006-032-1/2MSD	G262580.D	03/20/2009

GPL Laboratories

GPL
FORM 4
TPH METHOD BLANK SUMMARY

SAMPLE NO
BLK108776

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	108776
Lab File ID :	G262595.D	SDG NO :	903062
Date Analyzed	03/23/2009	Lab Sample ID :	BLK108776
Date Extracted :	03/23/2009	Time Analyzed :	12:17
Matrix :(Soil/Water).	WATER	Level :(Low/Med)	

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
OUI-MW51-0309DL	903062-004-029-2/2	G262596.D	03/23/2009
OUI-MW50-0309DL	903062-005-031-2/2	G262597.D	03/23/2009

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-EB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-001-022-1/2
Sample Volume :	10	Lab File ID :	G262573.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	5.4	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262573.D Vial: 7
Acq On : 20 Mar 2009 11:51 Operator: TG
Sample : 903062-001 Inst : GC-G
Misc : OUI-EB-031009, CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 12:02 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.61	851	5.443	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

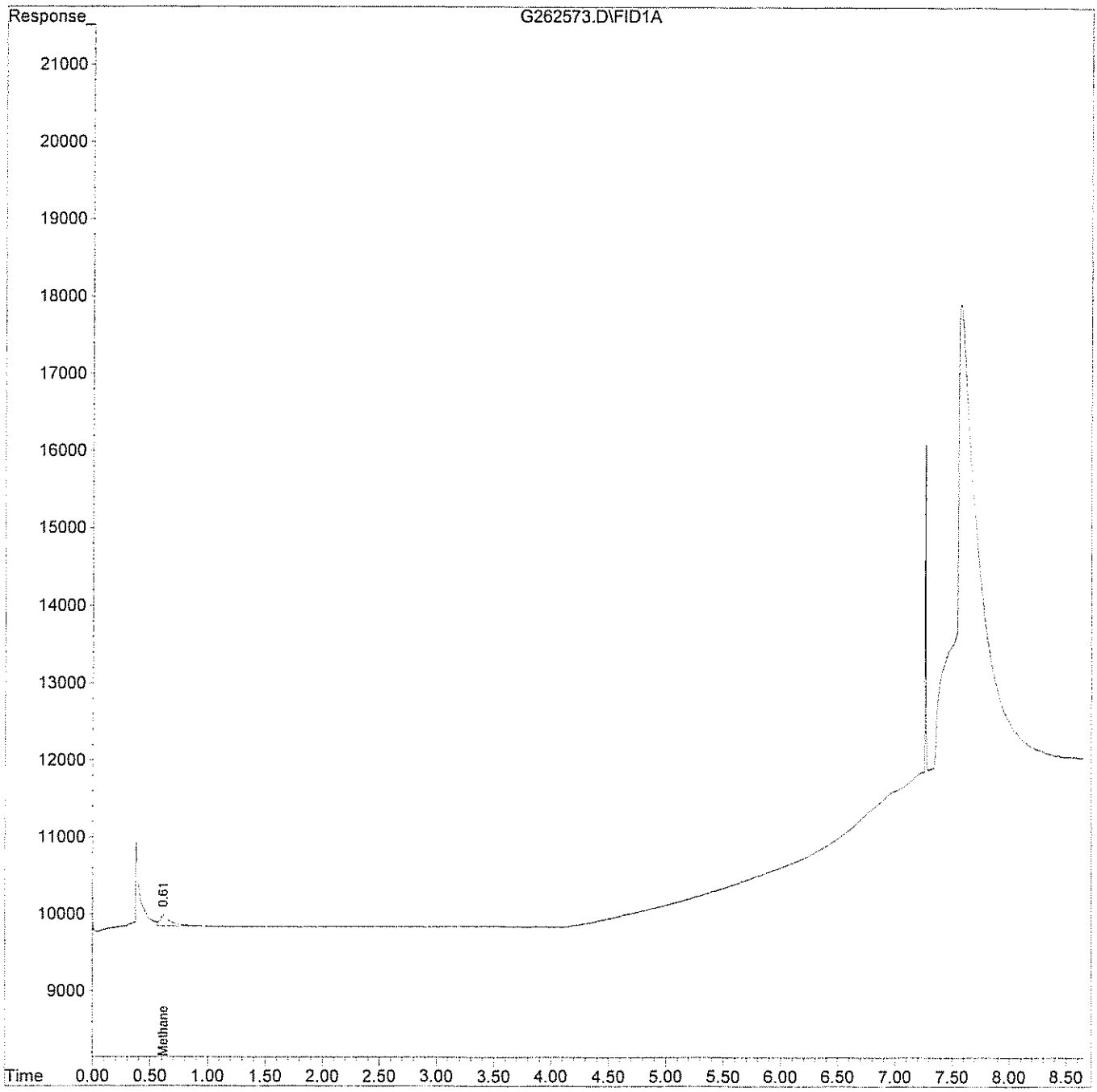
(f)=RT Delta > 1/2 Window (m)=manual int

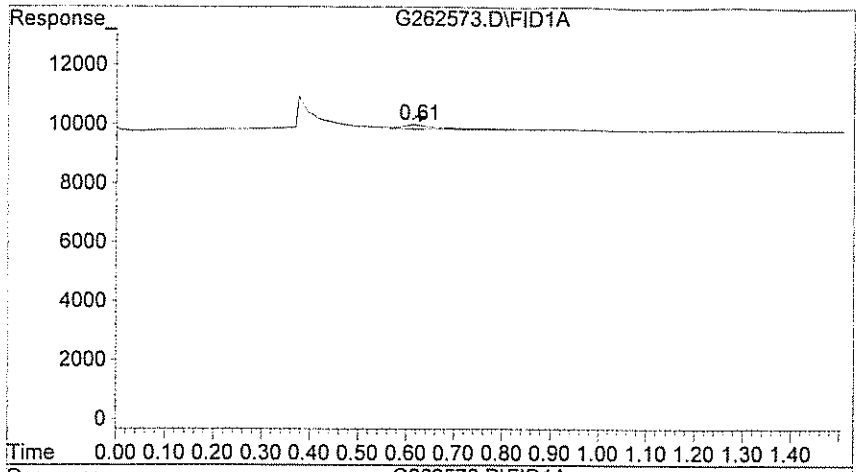
Quantitation Report

Data File : H:\GCDATA\G\032009\G262573.D Vial: 7
Acq On : 20 Mar 2009 11:51 Operator: TG
Sample : 903062-001 Inst : GC-G
Misc : OUI-EB-031009, CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 12:02 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

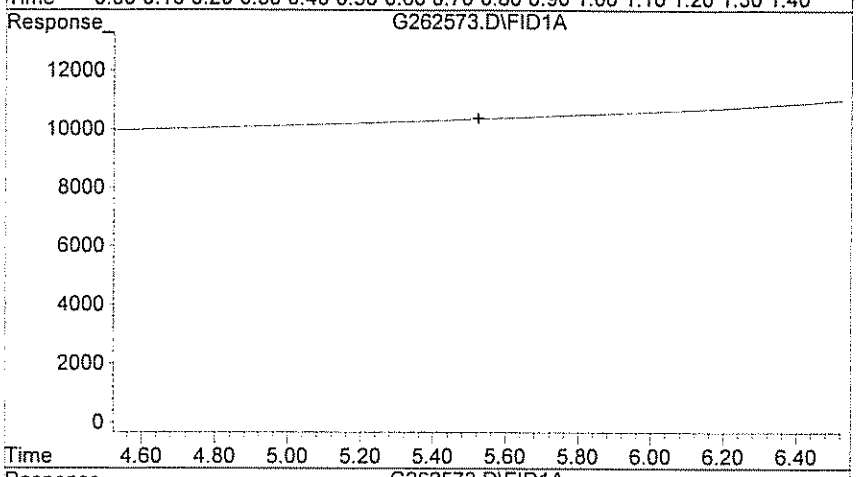
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





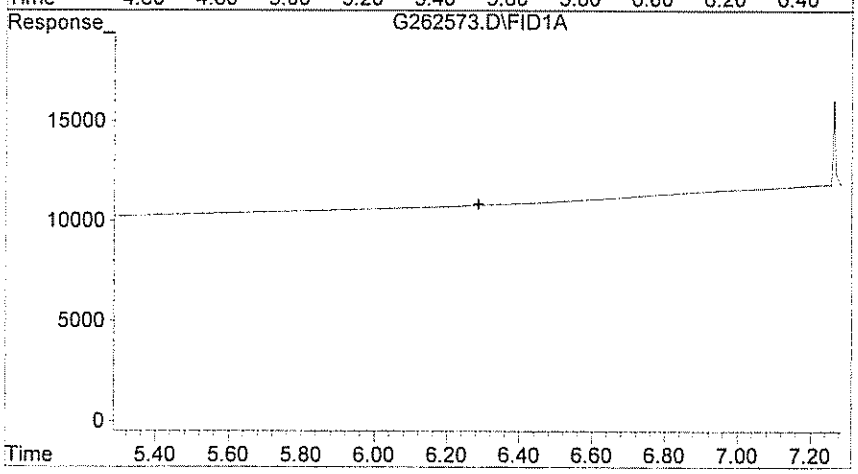
#1 Methane

R.T.: 0.613 min
Delta R.T.: -0.013 min
Response: 851
Conc: 5.44 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-FB-031009

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-002-024-1/2
Sample Volume :	10	Lab File ID :	G262574.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262574.D Vial: 8
Acq On : 20 Mar 2009 12:13 Operator: TG
Sample : 903062-002 Inst : GC-G
Misc : OUI-FB-031009, CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 14:00 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.00	0	N.D.	ppb	d
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

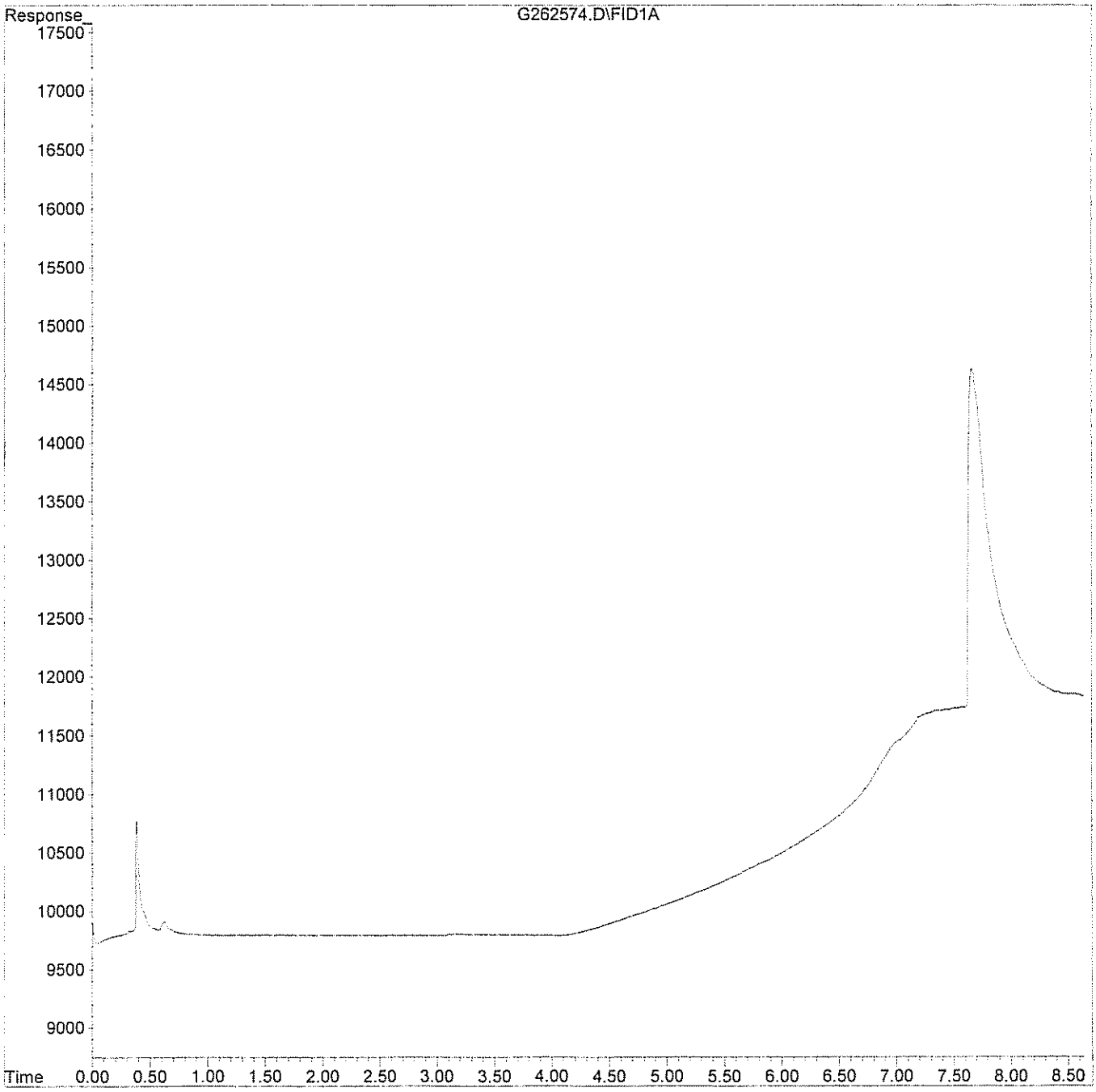
(f)=RT Delta > 1/2 Window (m)=manual int.
G262574.D RSK0320.M Tue Mar 24 08:47:46 2009 W28_IOANNIDE Page 1

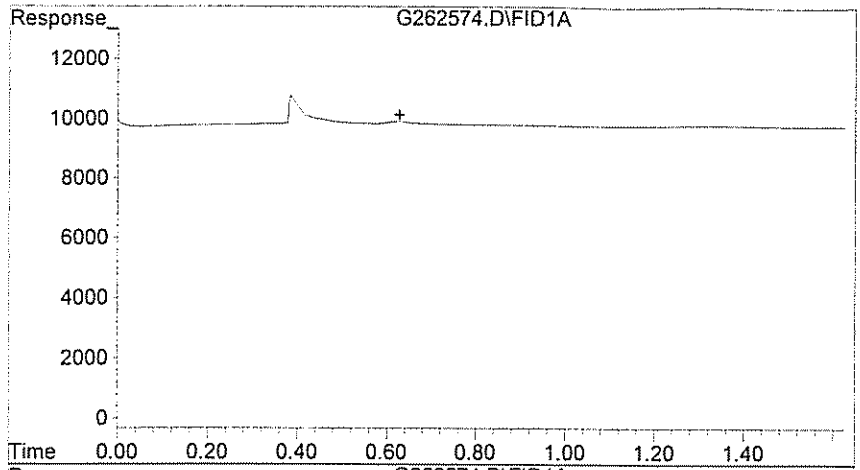
Quantitation Report

Data File : H:\GCDATA\G\032009\G262574.D Vial: 8
Acq On : 20 Mar 2009 12:13 Operator: TG
Sample : 903062-002 Inst : GC-G
Misc : OUI-FB-031009, CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 14:00 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

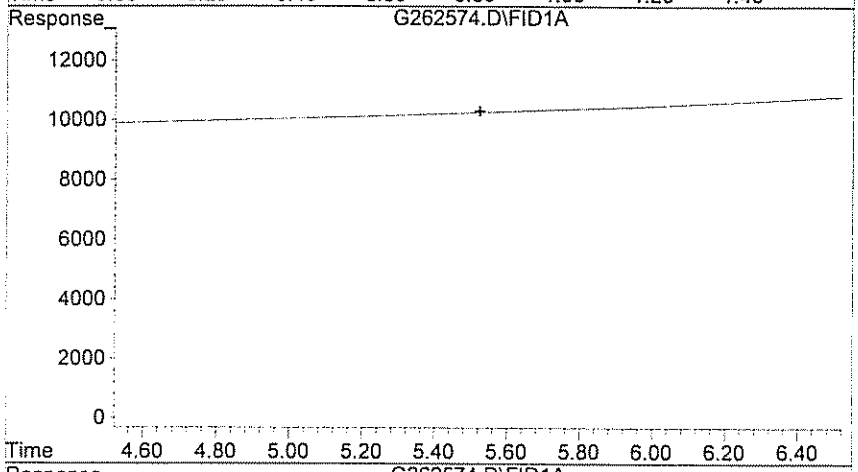
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





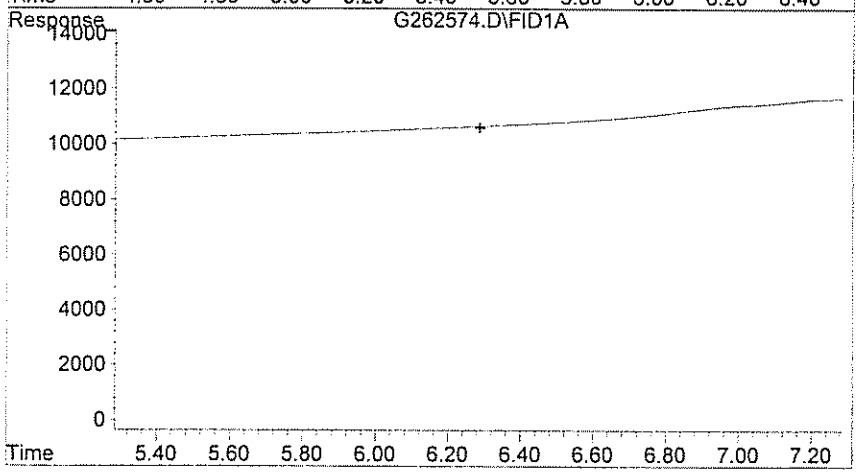
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW16-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-003-026-1/2
Sample Volume :	10	Lab File ID :	G262575.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	11	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262575.D Vial: 9
Acq On : 20 Mar 2009 12:33 Operator: TG
Sample : 903062-003 Inst : GC-G
Misc : OUI-16GW16-0309, CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 12:43 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.62	1675	10.714	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

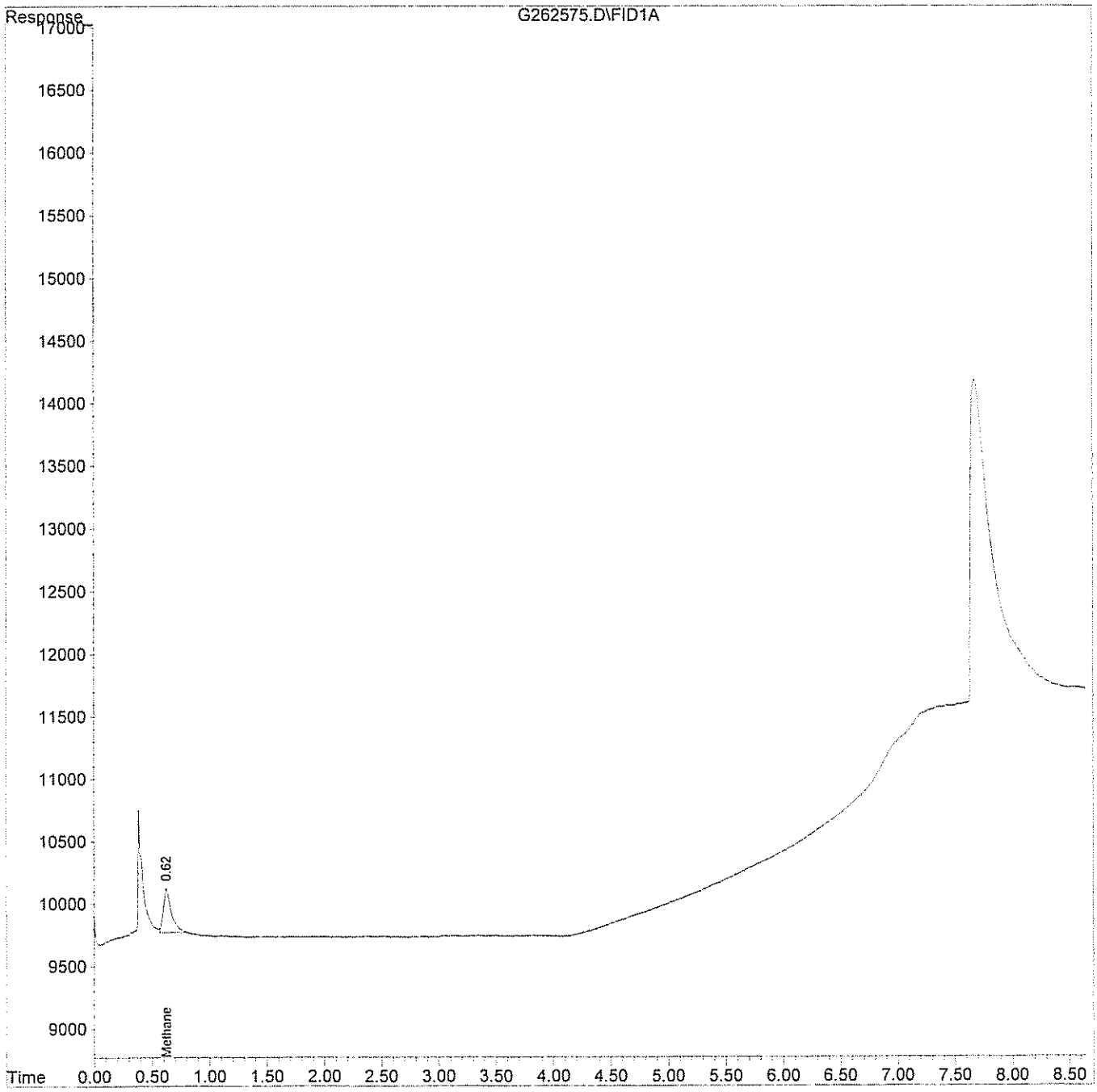
(f)=RT Delta > 1/2 Window (m)=manual int

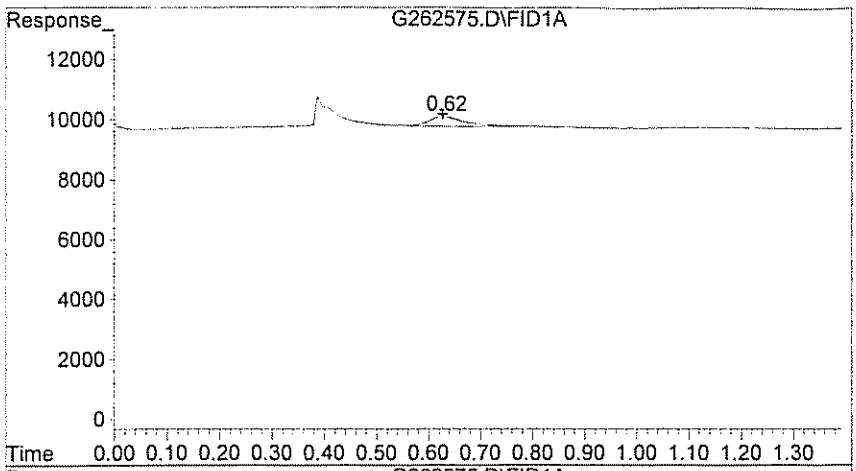
Quantitation Report

Data File : H:\GCDATA\G\032009\G262575.D Vial: 9
Acq On : 20 Mar 2009 12:33 Operator: TG
Sample : 903062-003 Inst : GC-G
Misc : OUI-16GW16-0309, CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 12:43 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

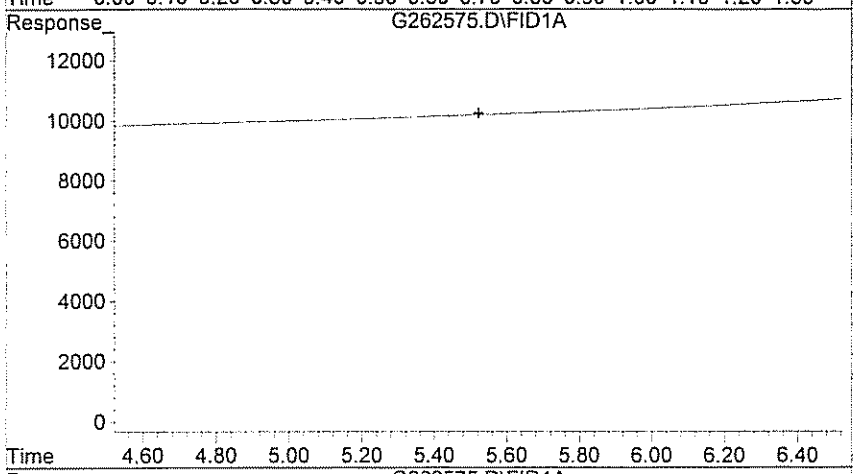
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





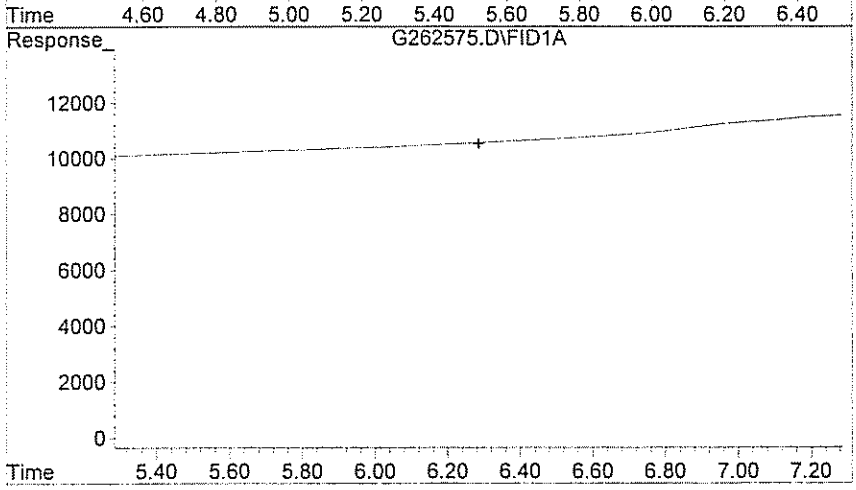
#1 Methane

R.T.: 0.623 min
Delta R.T.: -0.003 min
Response: 1675
Conc: 10.71 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-028-1/2
Sample Volume :	10	Lab File ID :	G262576.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	1200	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262576.D Vial: 10
Acq On : 20 Mar 2009 13:01 Operator: TG
Sample : 903062-004 Inst : GC-G
Misc : OUI-MW51-0309, CH2M, WATER, 10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 11:57 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.62	181393	1160.275	ppb	m
2)	T	Ethane	0.00	0	N.D.	ppb	
3)	T	Ethylene	0.00	0	N.D.	ppb	d

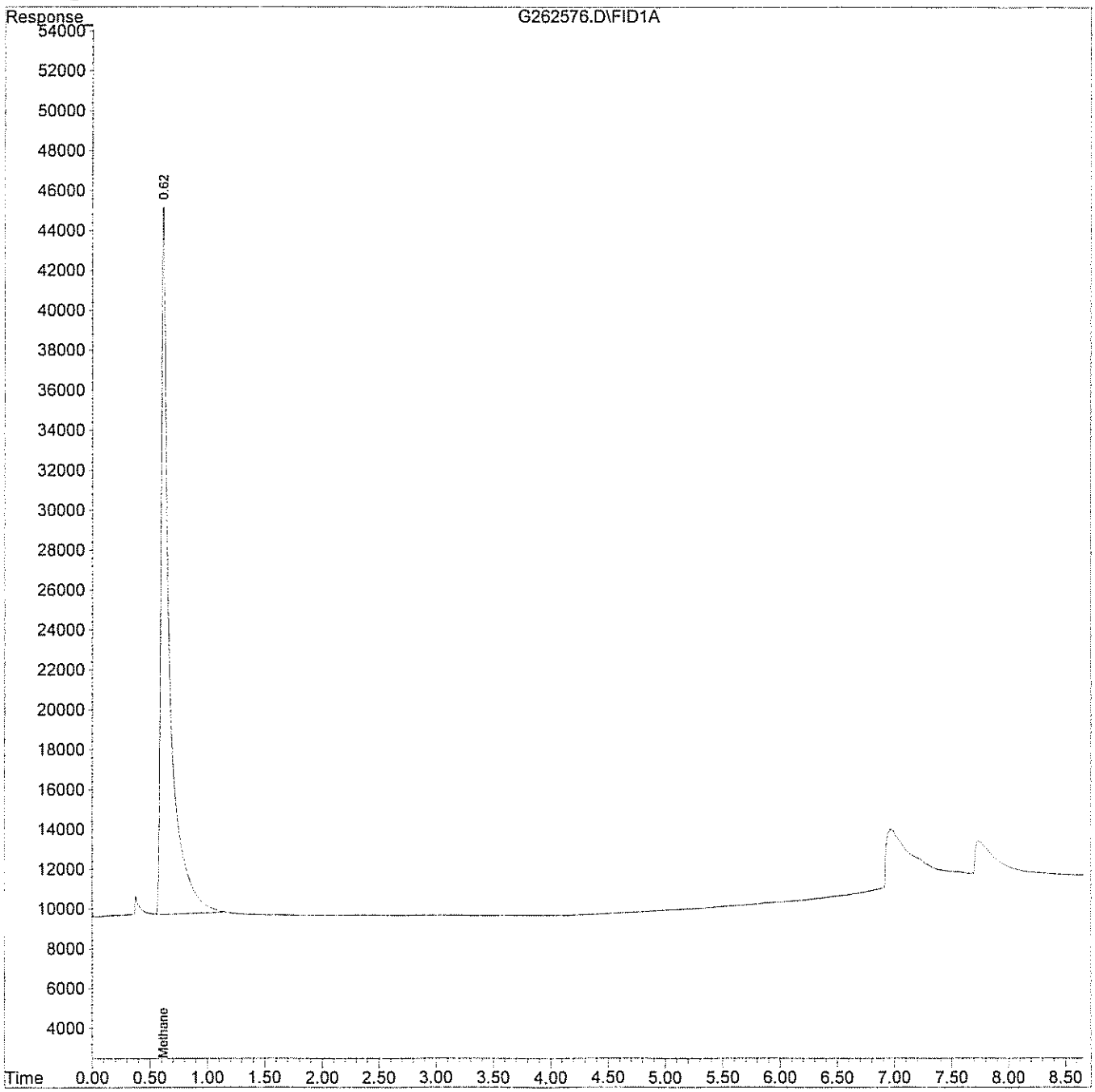
(f)=RT Delta > 1/2 Window (m)=manual int

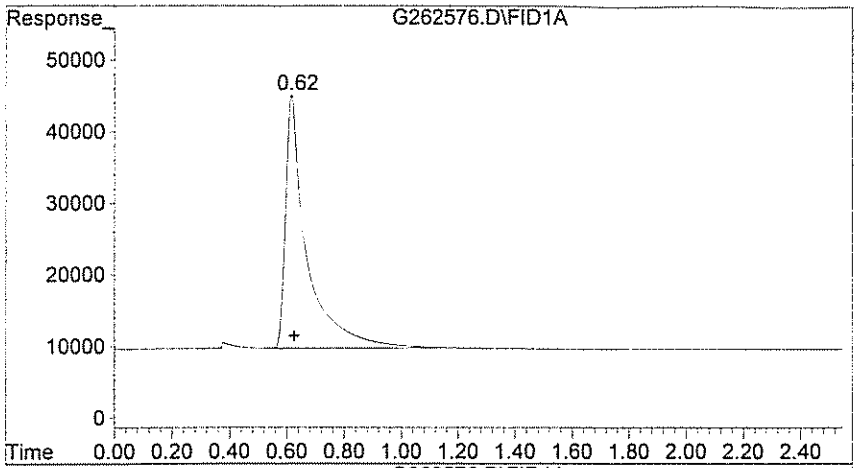
Quantitation Report

Data File : H:\GCDATA\G\032009\G262576.D Vial: 10
Acq On : 20 Mar 2009 13:01 Operator: TG
Sample : 903062-004 Inst : GC-G
Misc : OUI-MW51-0309, CH2M, WATER, 10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 11:57 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

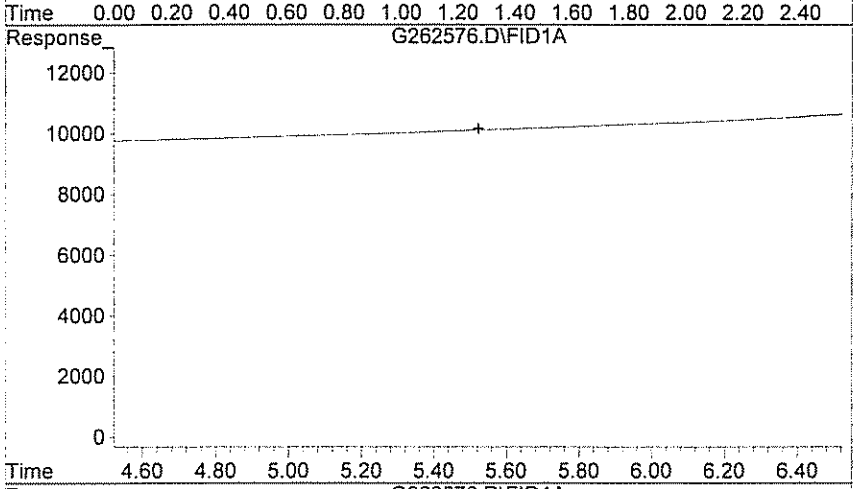
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





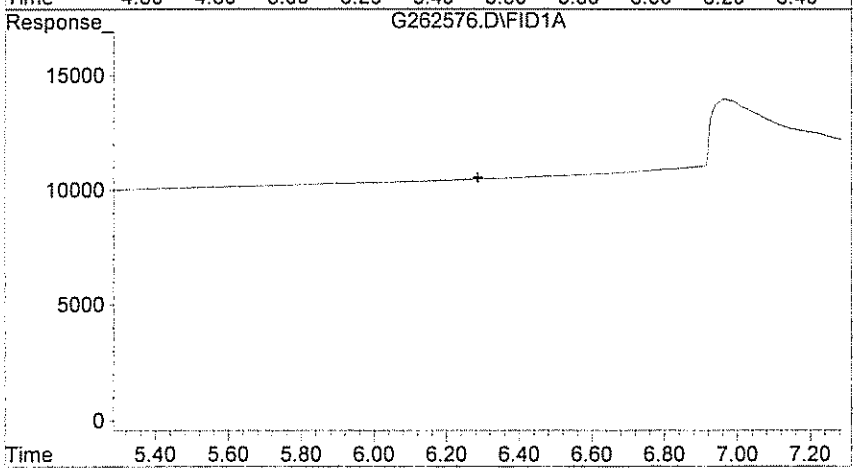
#1 Methane

R.T.: 0.617 min
Delta R.T.: -0.010 min
Response: 181393
Conc: 1160.27 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW51-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-004-029-2/2
Sample Volume :	.2	Lab File ID :	G262596.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/23/2009
Extract Volume:	.2 mL	Date Analyzed	03/23/2009
Injection Volume :	µL	Dilution Factor :	50
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	310	U
74-85-1	Ethene	290	U
74-82-8	Methane	900	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262596.D Vial: 15
Acq On : 23 Mar 2009 12:31 Operator: TG
Sample : 903062-004DL Inst : GC-G
Misc : OUI-MW51-0309,CH2M,WATER,10ML,50X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:40 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.63	2812	17.987	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

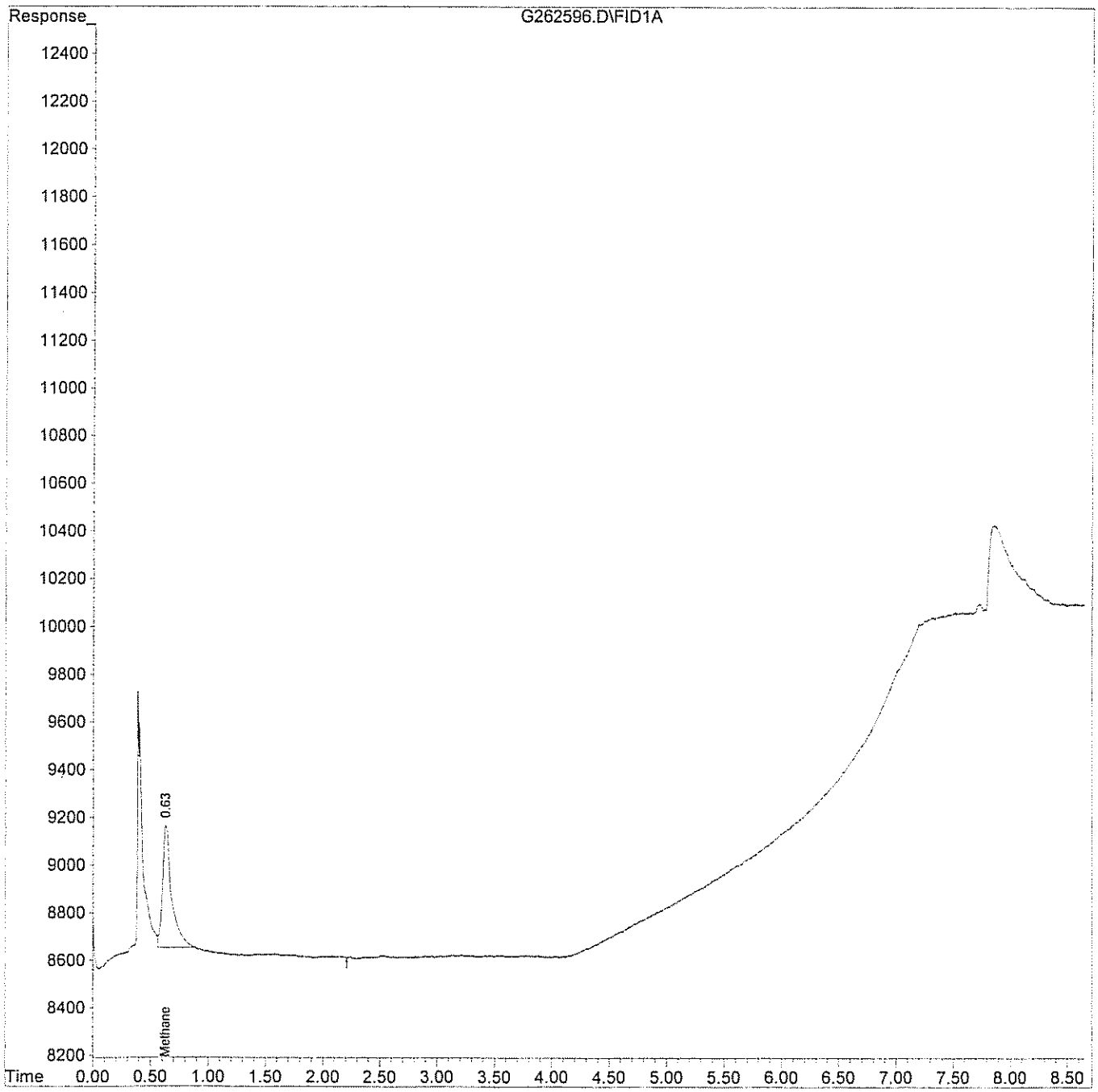
(f)=RT Delta > 1/2 Window (m)=manual int

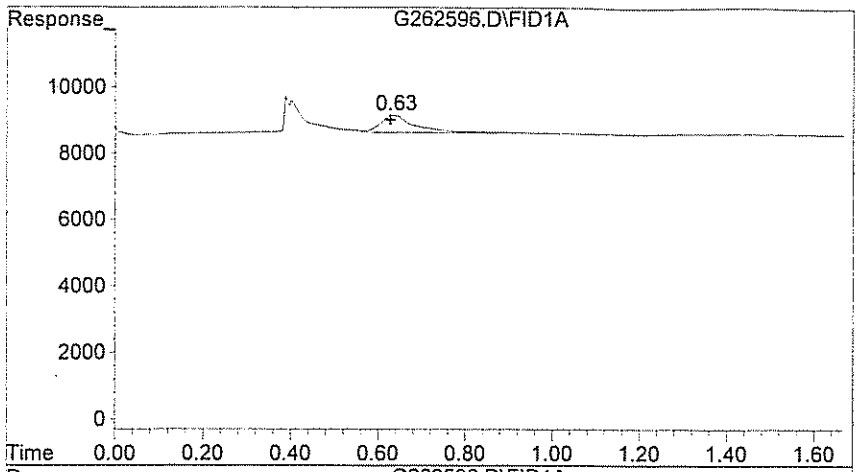
Quantitation Report

Data File : H:\GCDATA\G\032309\G262596.D Vial: 15
Acq On : 23 Mar 2009 12:31 Operator: TG
Sample : 903062-004DL Inst : GC-G
Misc : OUI-MW51-0309,CH2M,WATER,10ML,50X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:40 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

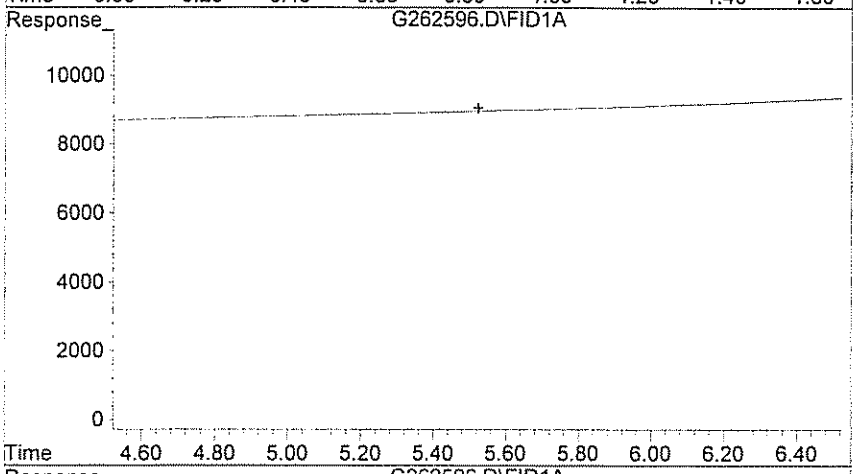
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





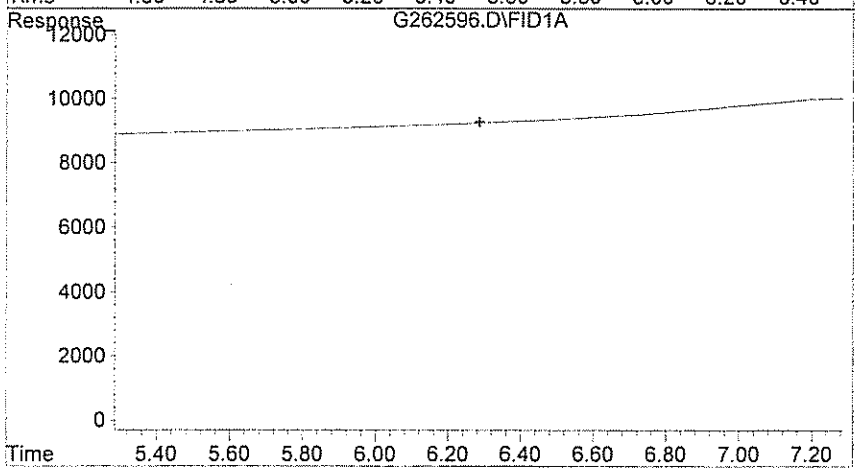
#1 Methane

R.T.: 0.627 min
Delta R.T.: 0.000 min
Response: 2812
Conc: 17.99 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-030-1/2
Sample Volume :	10	Lab File ID :	G262577.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	420	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262577.D Vial: 11
Acq On : 20 Mar 2009 13:21 Operator: TG
Sample : 903062-005 Inst : GC-G
Misc : OUI-MW5D-0309, CH2M, WATER, 10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 13:30 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.62	65512	419.045	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

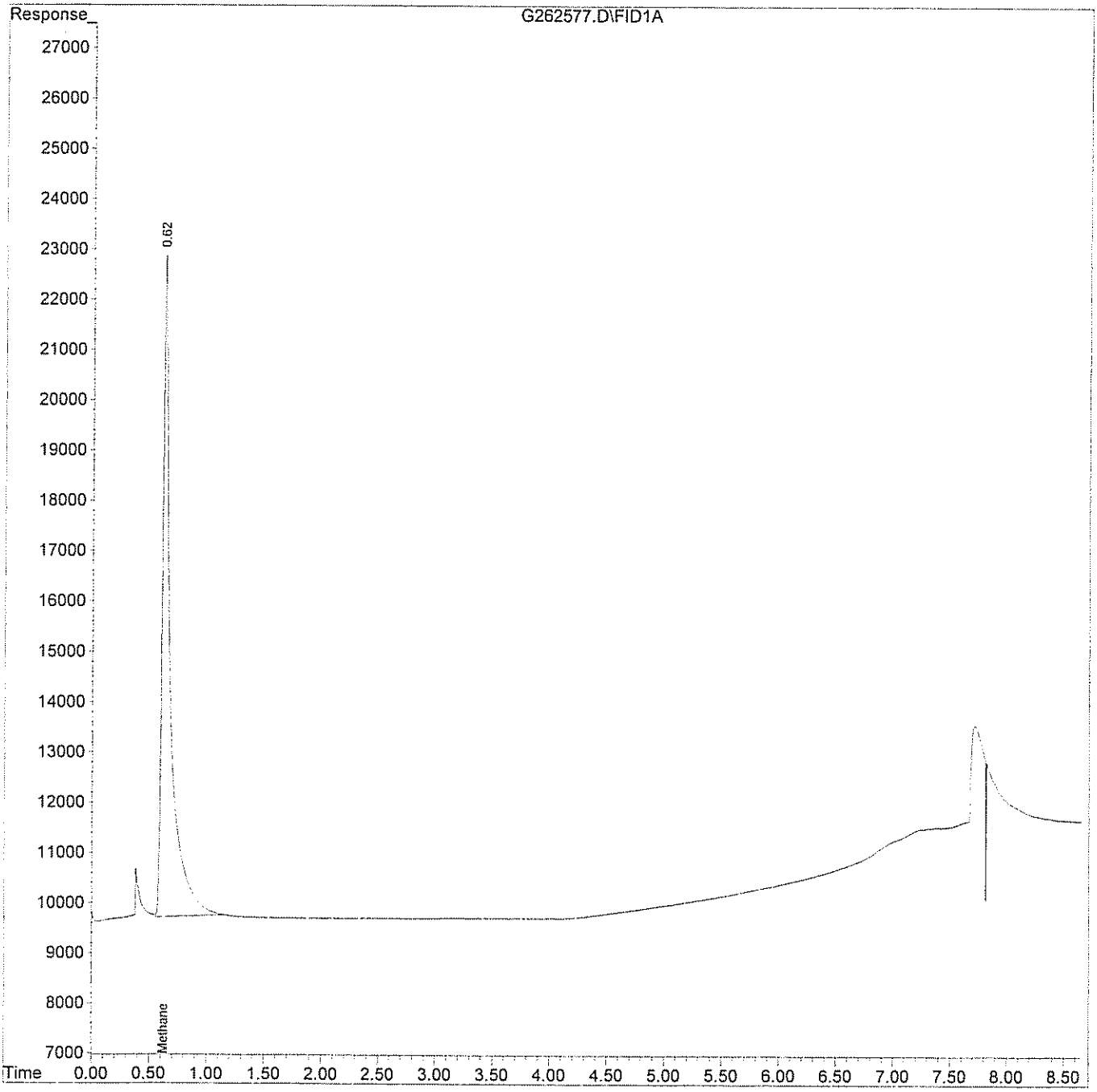
(f)=RT Delta > 1/2 Window (m)=manual int

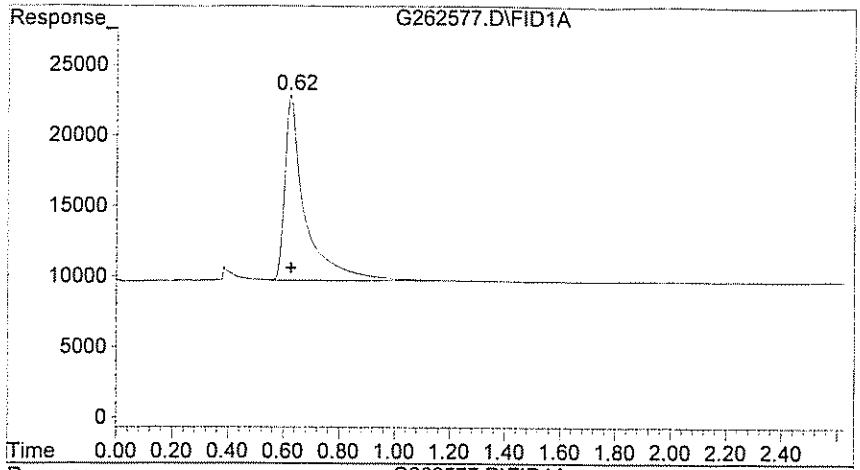
Quantitation Report

Data File : H:\GCDATA\G\032009\G262577.D Vial: 11
Acq On : 20 Mar 2009 13:21 Operator: TG
Sample : 903062-005 Inst : GC-G
Misc : OUI-MW5D-0309, CH2M, WATER, 10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 13:30 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

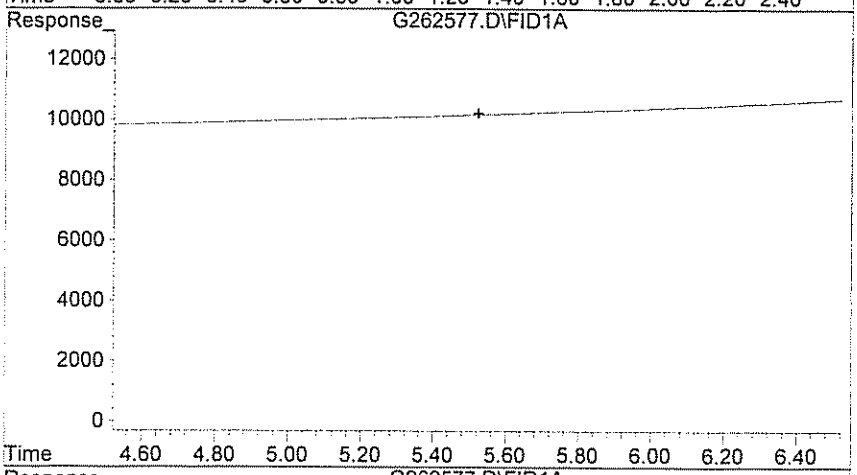
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





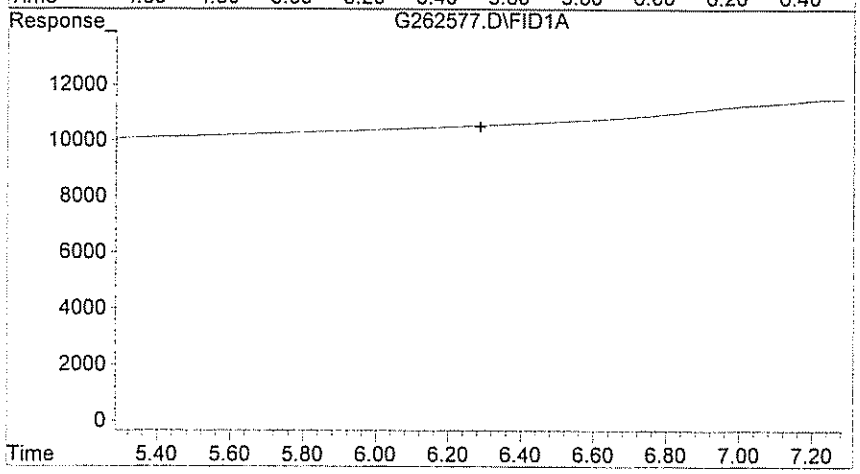
#1 Methane

R.T.: 0.623 min
Delta R.T.: -0.003 min
Response: 65512
Conc: 419.05 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-MW50-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-005-031-2/2
Sample Volume :	.5	Lab File ID :	G262597.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/23/2009
Extract Volume:	.5 mL	Date Analyzed	03/23/2009
Injection Volume :	µ L	Dilution Factor :	20
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	87	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262597.D Vial: 16
Acq On : 23 Mar 2009 12:45 Operator: TG
Sample : 903062-005DL Inst : GC-G
Misc : OUI-MW5D-0309,CH2M,WATER,10ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:56 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.63	682	4.362	ppb	m
2)	T	Ethane	0.00	0	N.D.	ppb	
3)	T	Ethylene	0.00	0	N.D.	ppb	

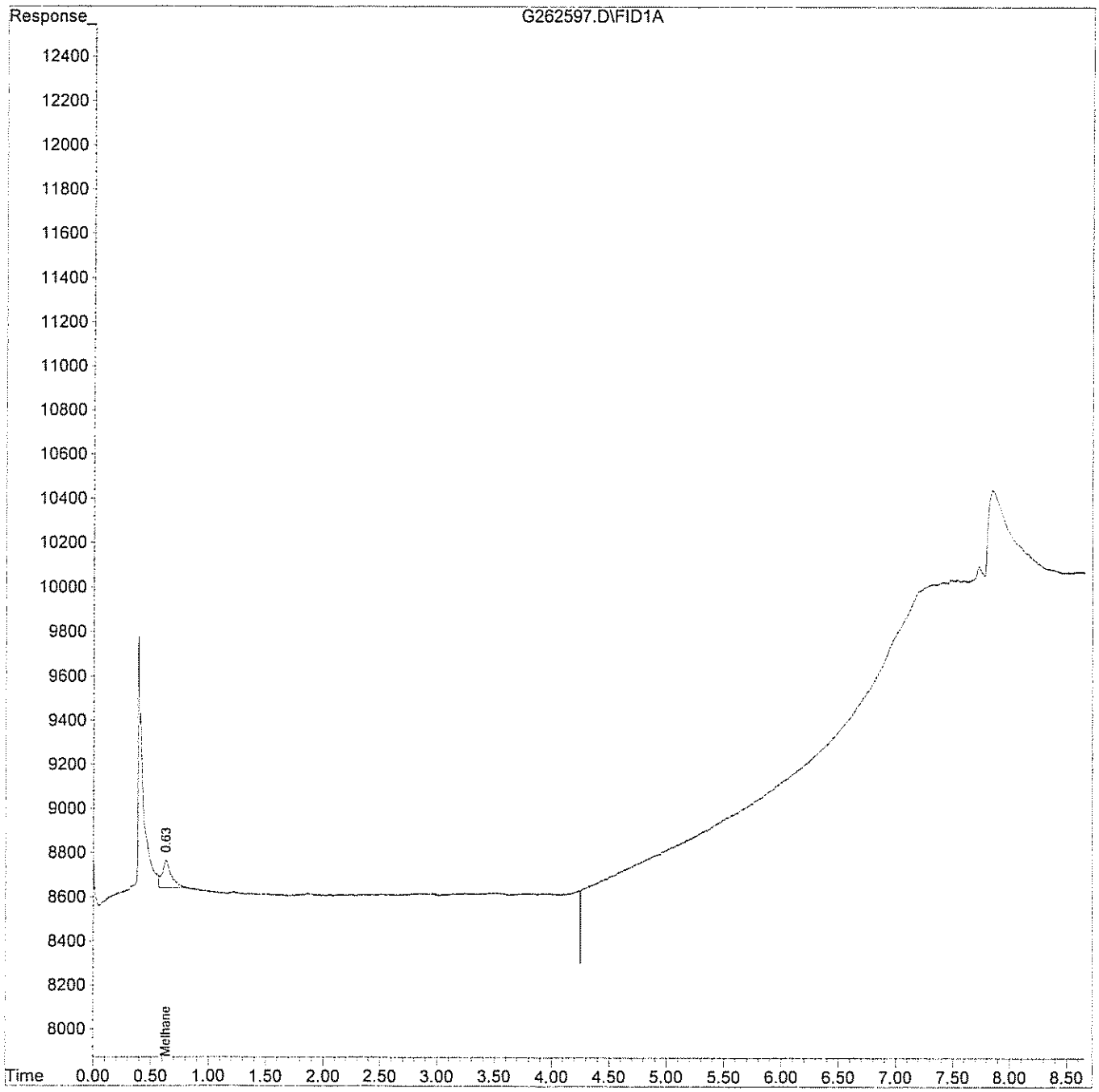
(f)=RT Delta > 1/2 Window (m)=manual int

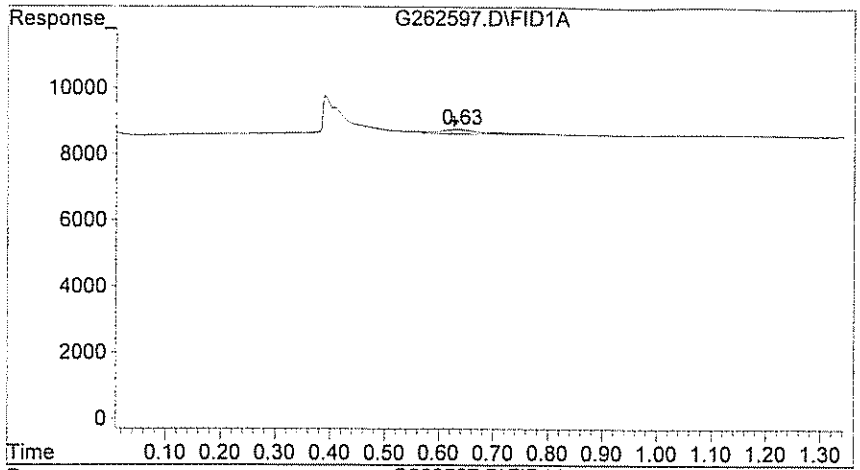
Quantitation Report

Data File : H:\GCDATA\G\032309\G262597.D Vial: 16
Acq On : 23 Mar 2009 12:45 Operator: TG
Sample : 903062-005DL Inst : GC-G
Misc : OUI-MW5D-0309,CH2M,WATER,10ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:56 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

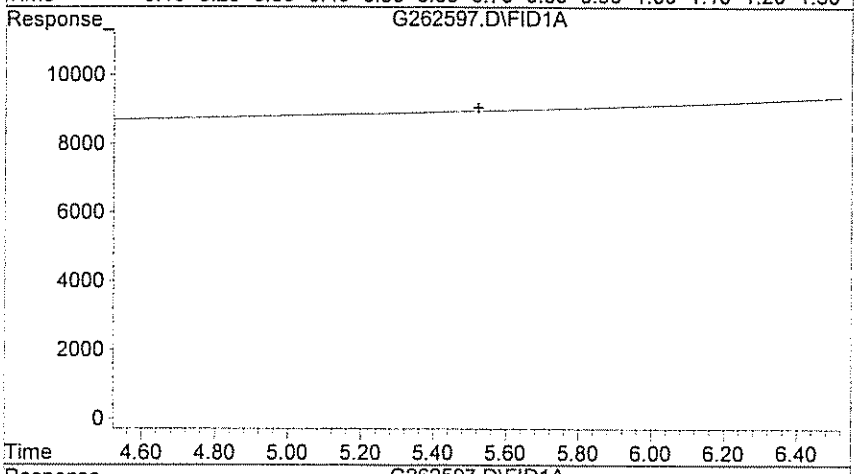
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





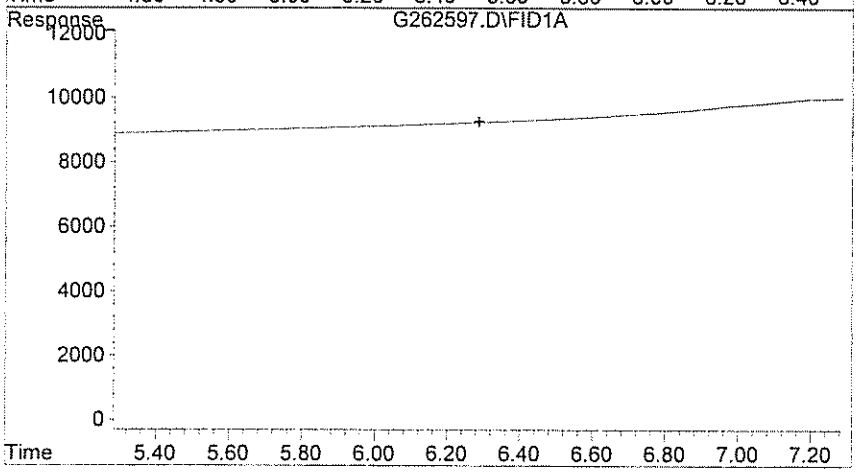
#1 Methane

R.T.:	0.630 min
Delta R.T.:	0.003 min
Response:	682
Conc:	4.36 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-032-1/2
Sample Volume :	10	Lab File ID :	G262578.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262578.D Vial: 12
Acq On : 20 Mar 2009 13:41 Operator: TG
Sample : 903062-006 Inst : GC-G
Misc : OUI-16GW01-0309, CH2M, WATER, 10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 14:02 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.00	0	N.D.	ppb	d
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

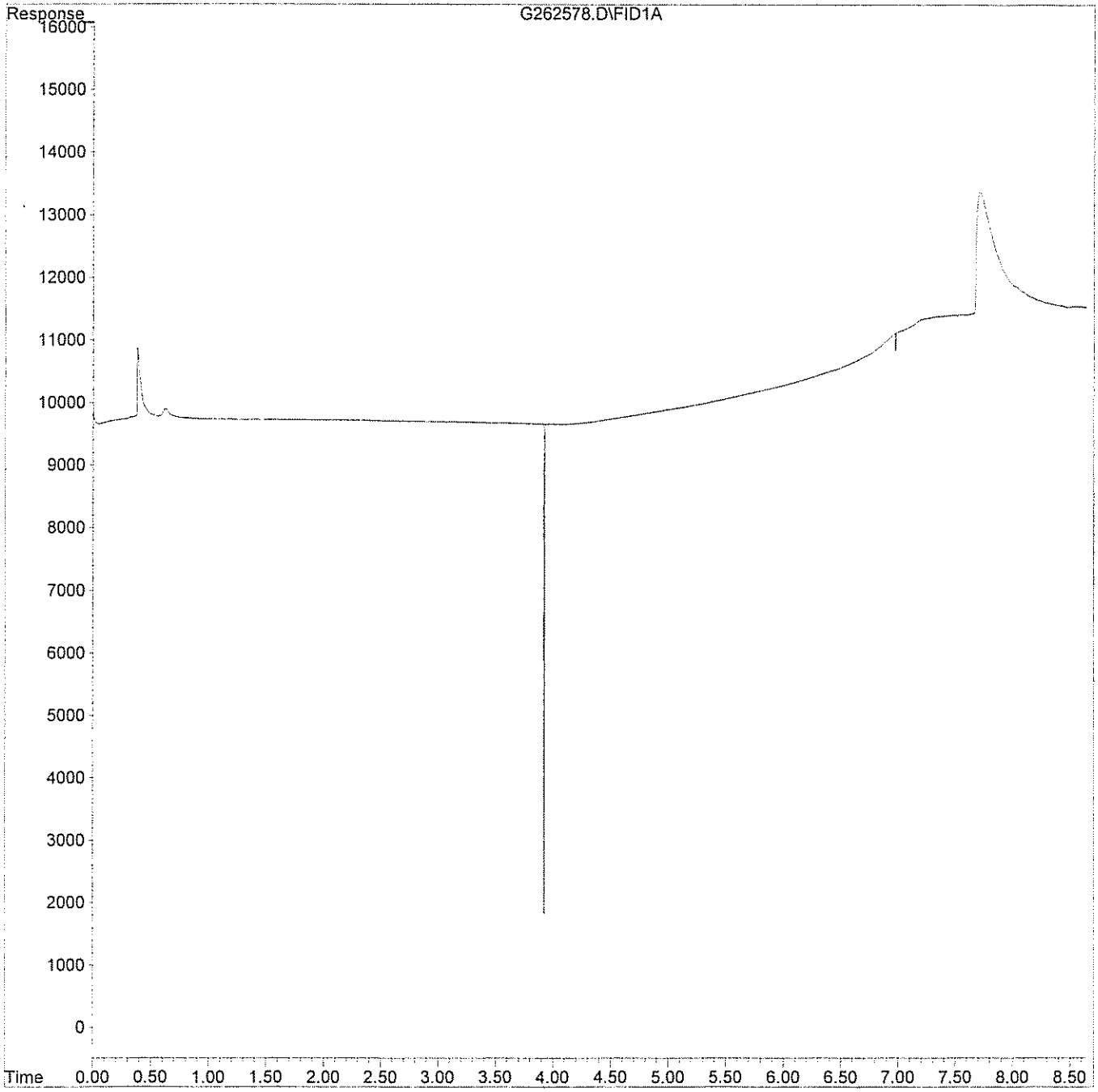
(f)=RT Delta > 1/2 Window (m)=manual int

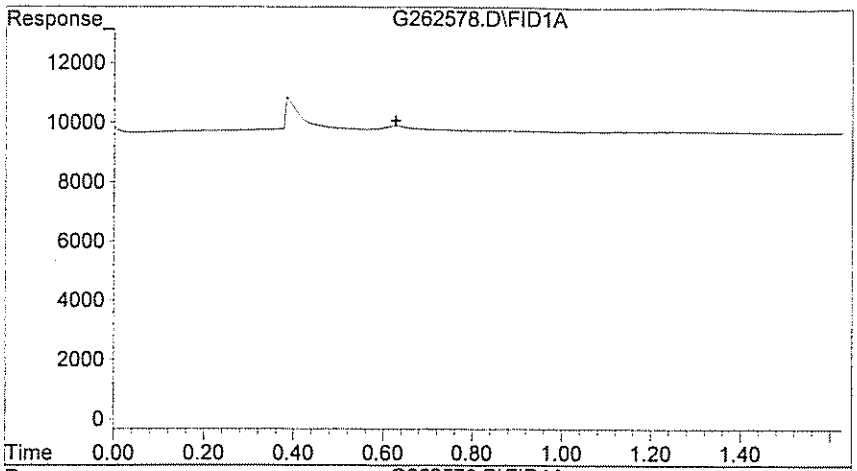
Quantitation Report

Data File : H:\GCDATA\G\032009\G262578.D Vial: 12
Acq On : 20 Mar 2009 13:41 Operator: TG
Sample : 903062-006 Inst : GC-G
Misc : OUI-16GW01-0309, CH2M, WATER, 10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 14:02 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

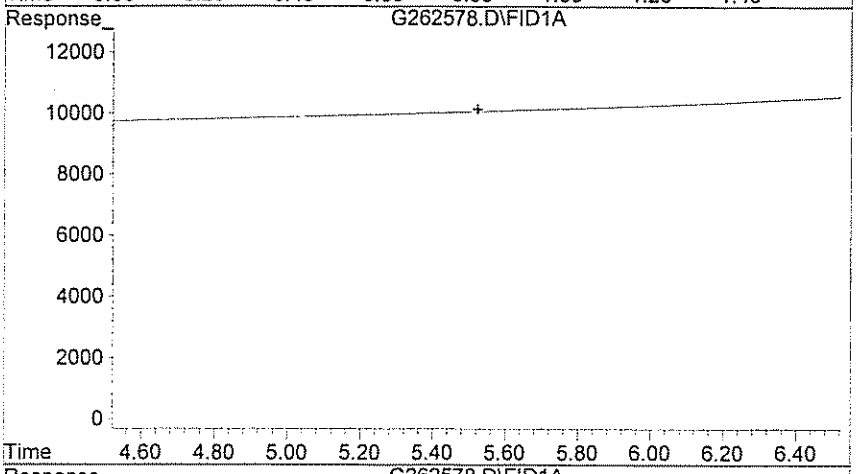
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





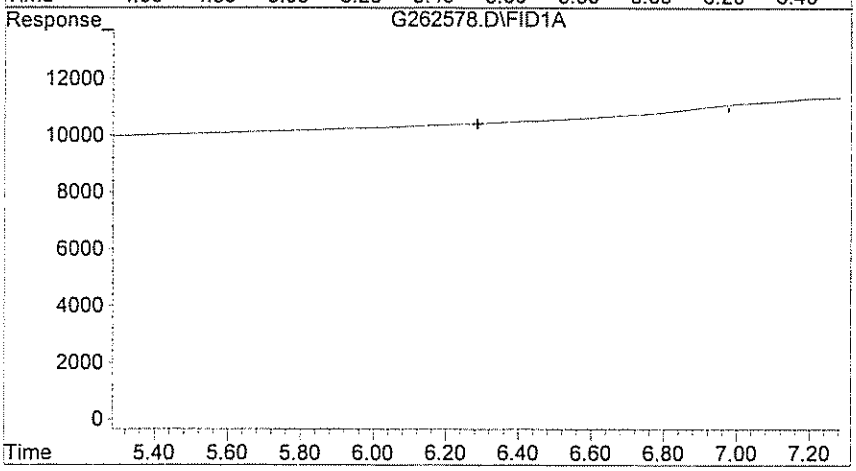
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009

Calibration Files
1 =G262567.D 2 =G262568.D 10 =G262571.D
5 =G262570.D 4 =G262569.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	1.844	1.715	1.208	1.507	1.544	1.563 E2	15.39
2)	T	Ethane	2.965	2.600	1.796	2.090	2.406	2.371 E1	19.04
3)	T	Ethylene	3.591	3.466	2.153	2.763	2.893	2.973 E1	19.52

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262567.D Vial: 1
Acq On : 20 Mar 2009 9:07 Operator: TG
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	614	4.075	ppb	m
2) T	Ethane	5.48	185	8.853	ppb	m
3) T	Ethylene	6.26	209	7.565	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int.

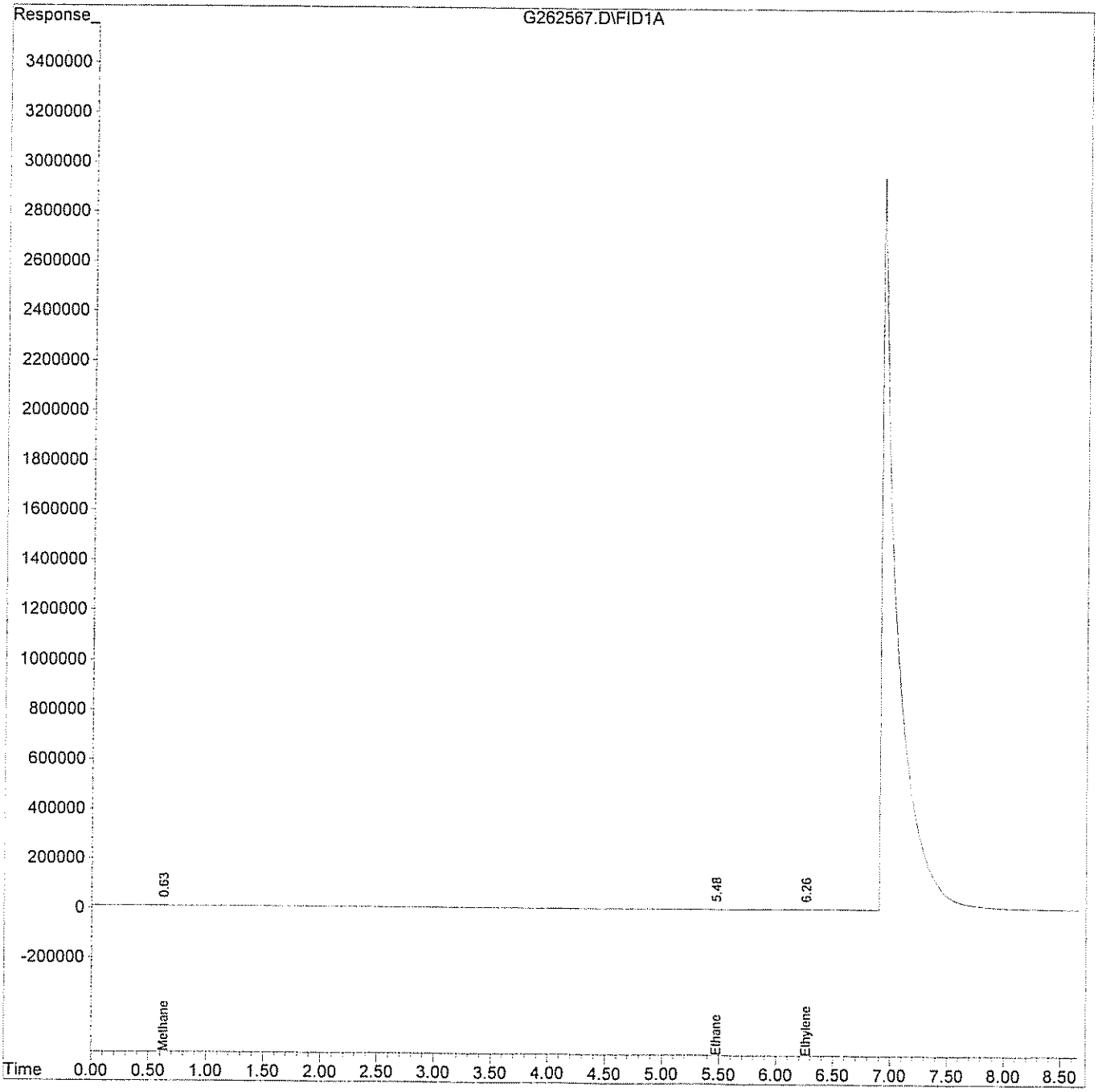
Quantitation Report

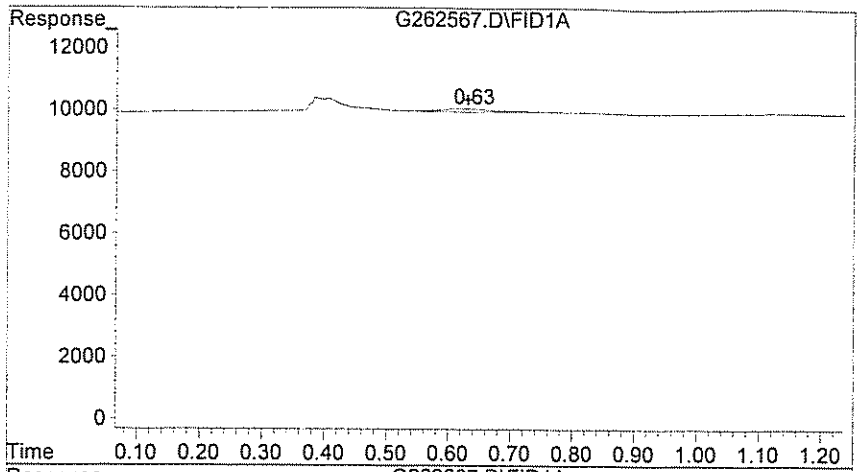
Data File : H:\GCDATA\G\032009\G262567.D
Acq On : 20 Mar 2009 9:07
Sample : CAL01
Misc : CAL01
IntFile : rteint.p
Quant Time: Mar 20 10:22 2009 Quant Results File: RSK0320.RES

Vial: 1
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

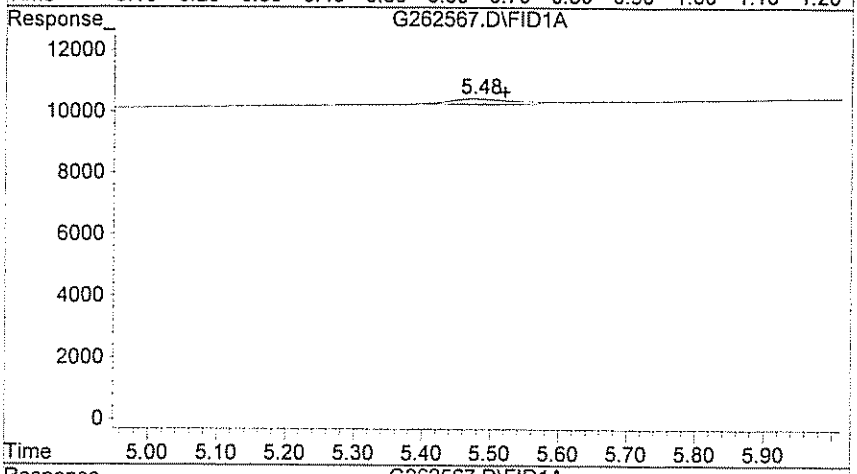
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





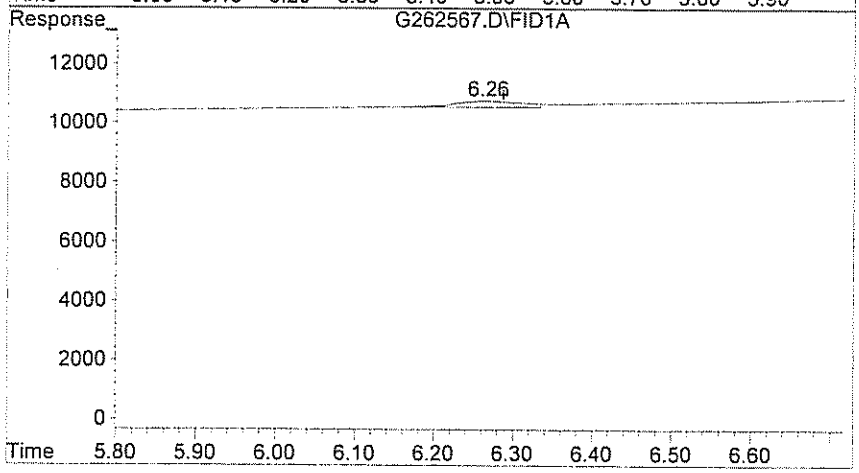
#1 Methane

R.T.: 0.630 min
Delta R.T.: 0.000 min
Response: 614
Conc: 4.08 ppb m



#2 Ethane

R.T.: 5.477 min
Delta R.T.: -0.043 min
Response: 185
Conc: 8.85 ppb m



#3 Ethylene

R.T.: 6.260 min
Delta R.T.: -0.027 min
Response: 209
Conc: 7.56 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262568.D Vial: 2
Acq On : 20 Mar 2009 9:23 Operator: TG
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.61	1149	6.859	ppb	m
2) T	Ethane	5.45	325	12.860	ppb	m
3) T	Ethylene	6.25	402	12.654	ppb	m

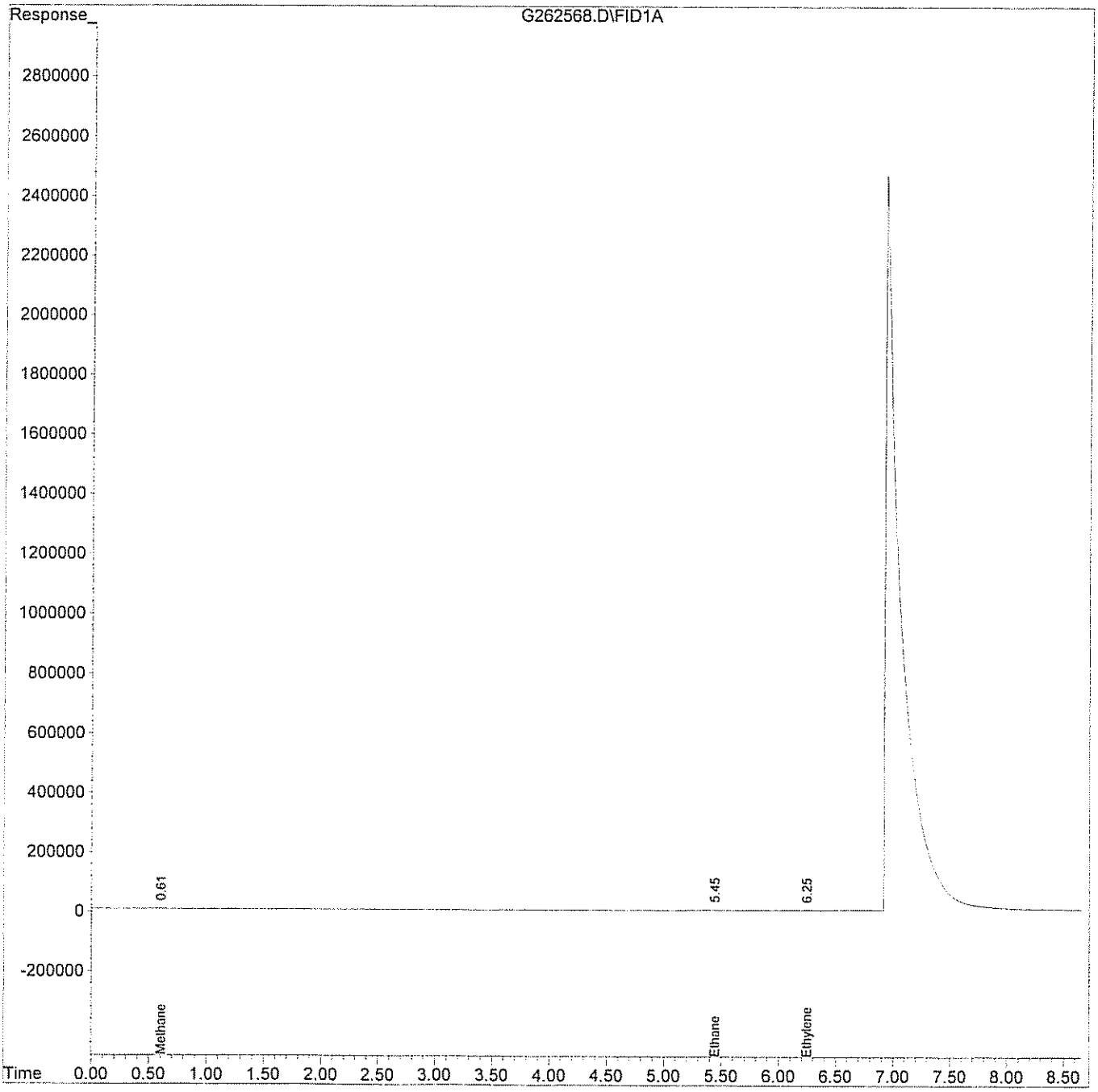
(f)=RT Delta > 1/2 Window (m)=manual int

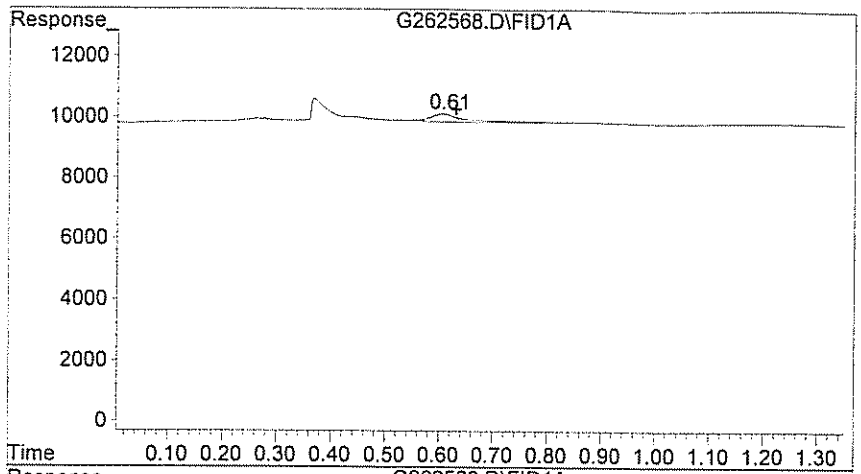
Quantitation Report

Data File : H:\GCDATA\G\032009\G262568.D Vial: 2
Acq On : 20 Mar 2009 9:23 Operator: TG
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

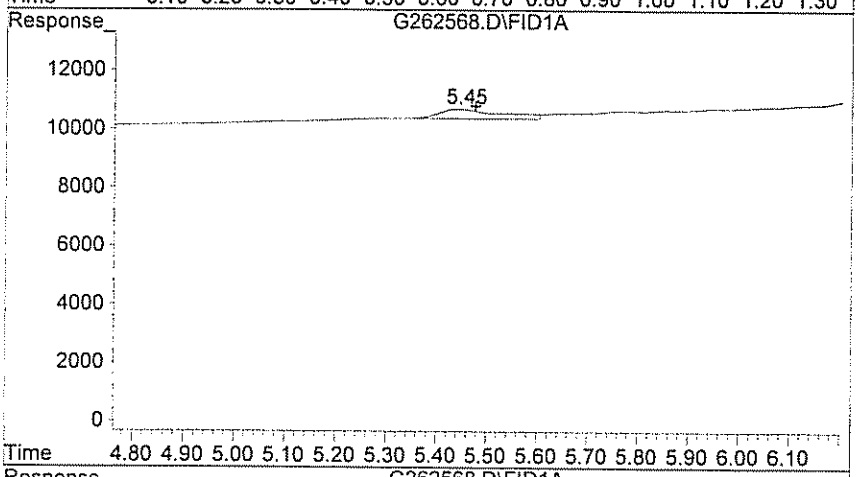
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





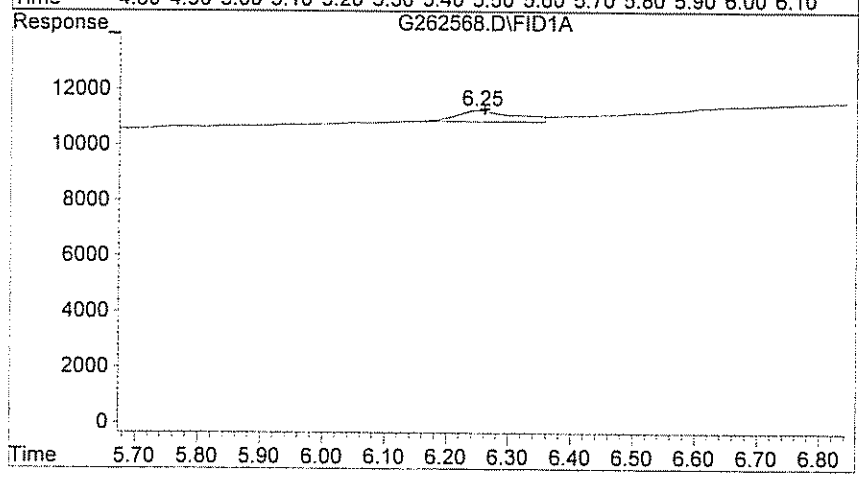
#1 Methane

R.T.: 0.607 min
Delta R.T.: -0.023 min
Response: 1149
Conc: 6.86 ppb m



#2 Ethane

R.T.: 5.447 min
Delta R.T.: -0.030 min
Response: 325
Conc: 12.86 ppb m



#3 Ethylene

R.T.: 6.247 min
Delta R.T.: -0.013 min
Response: 402
Conc: 12.65 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262569.D Vial: 3
Acq On : 20 Mar 2009 9:44 Operator: TG
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:32 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.62	2053	12.159	ppb	m
2) T	Ethane	5.51	599	23.476	ppb	m
3) T	Ethylene	6.29	674	20.592	ppb	m

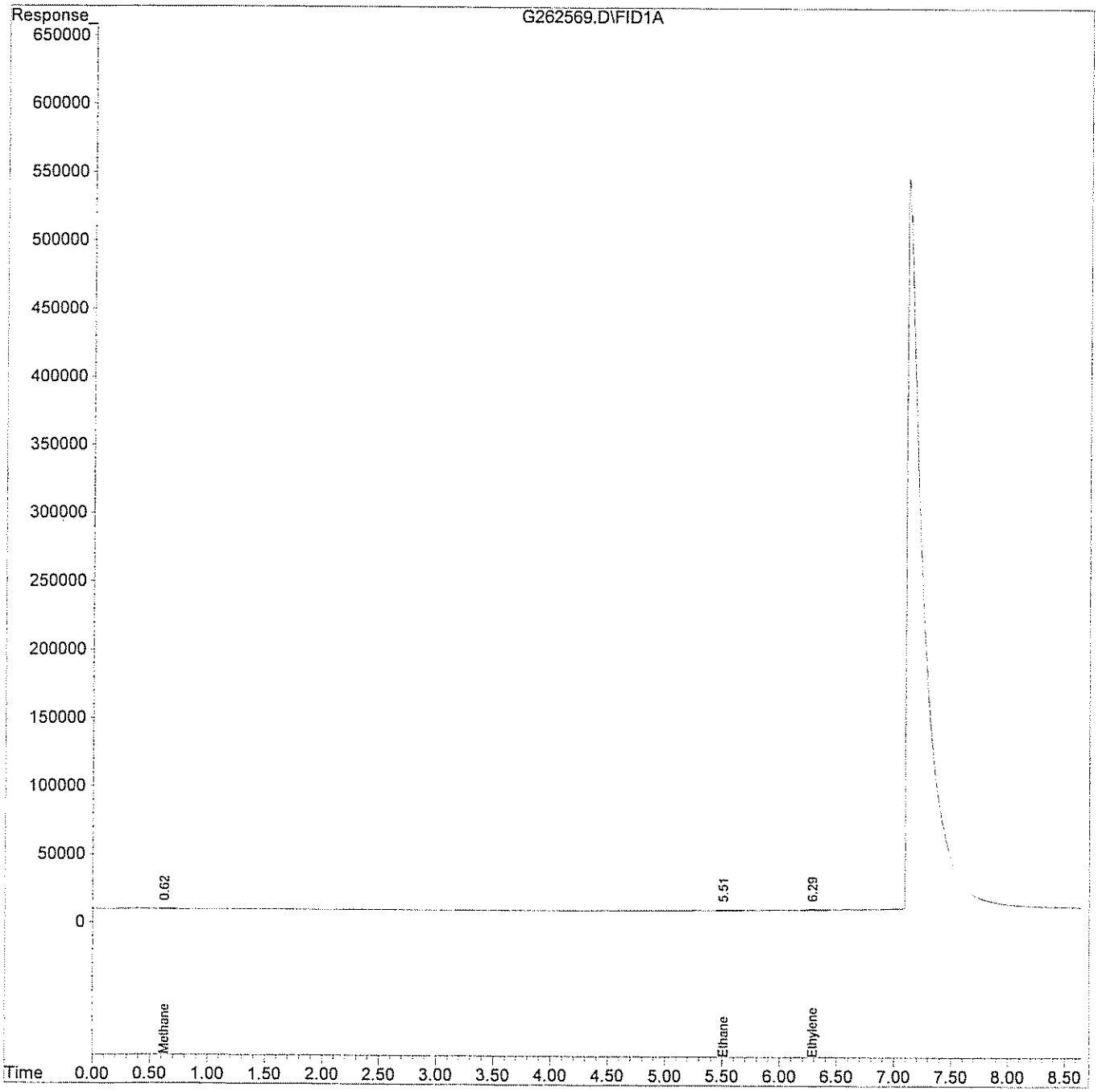
(f)=RT Delta > 1/2 Window (m)=manual int.

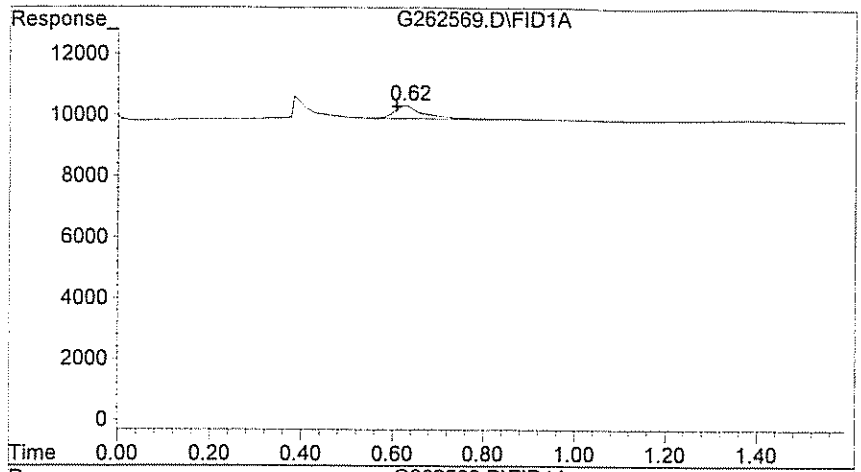
Quantitation Report

Data File : H:\GCDATA\G\032009\G262569.D Vial: 3
Acq On : 20 Mar 2009 9:44 Operator: TG
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:32 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

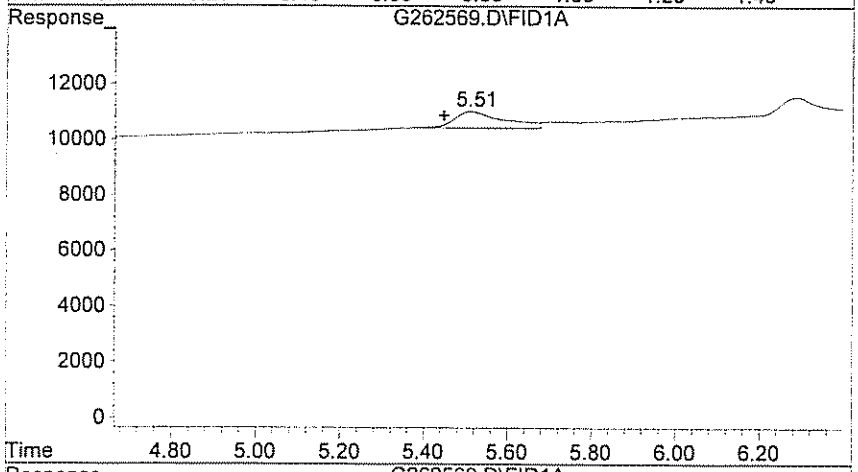
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





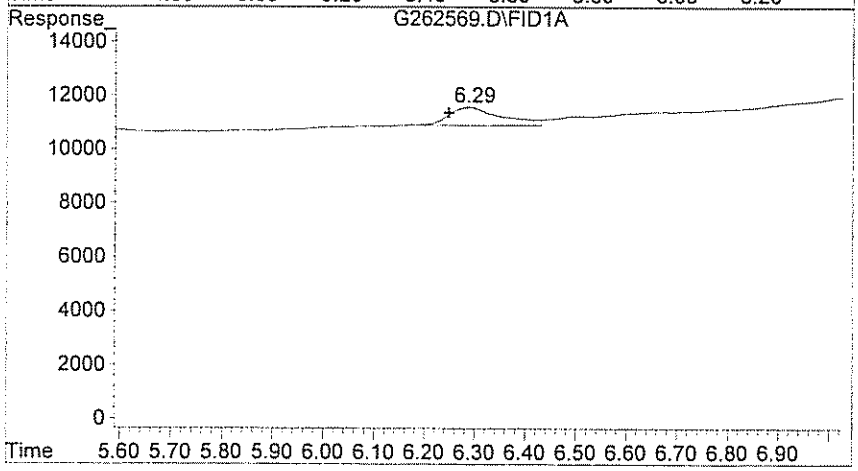
#1 Methane

R.T.: 0.623 min
Delta R.T.: 0.017 min
Response: 2053
Conc: 12.16 ppb m



#2 Ethane

R.T.: 5.510 min
Delta R.T.: 0.063 min
Response: 599
Conc: 23.48 ppb m



#3 Ethylene

R.T.: 6.287 min
Delta R.T.: 0.040 min
Response: 674
Conc: 20.59 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262571.D Vial: 5
Acq On : 20 Mar 2009 10:13 Operator: TG
Sample : CAL010 Inst : GC-G
Misc : CAL010 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.63	4022	24.343	ppb	m
2)	T	Ethane	5.52	1121	44.572	ppb	
3)	T	Ethylene	6.29	1253	39.427	ppb	

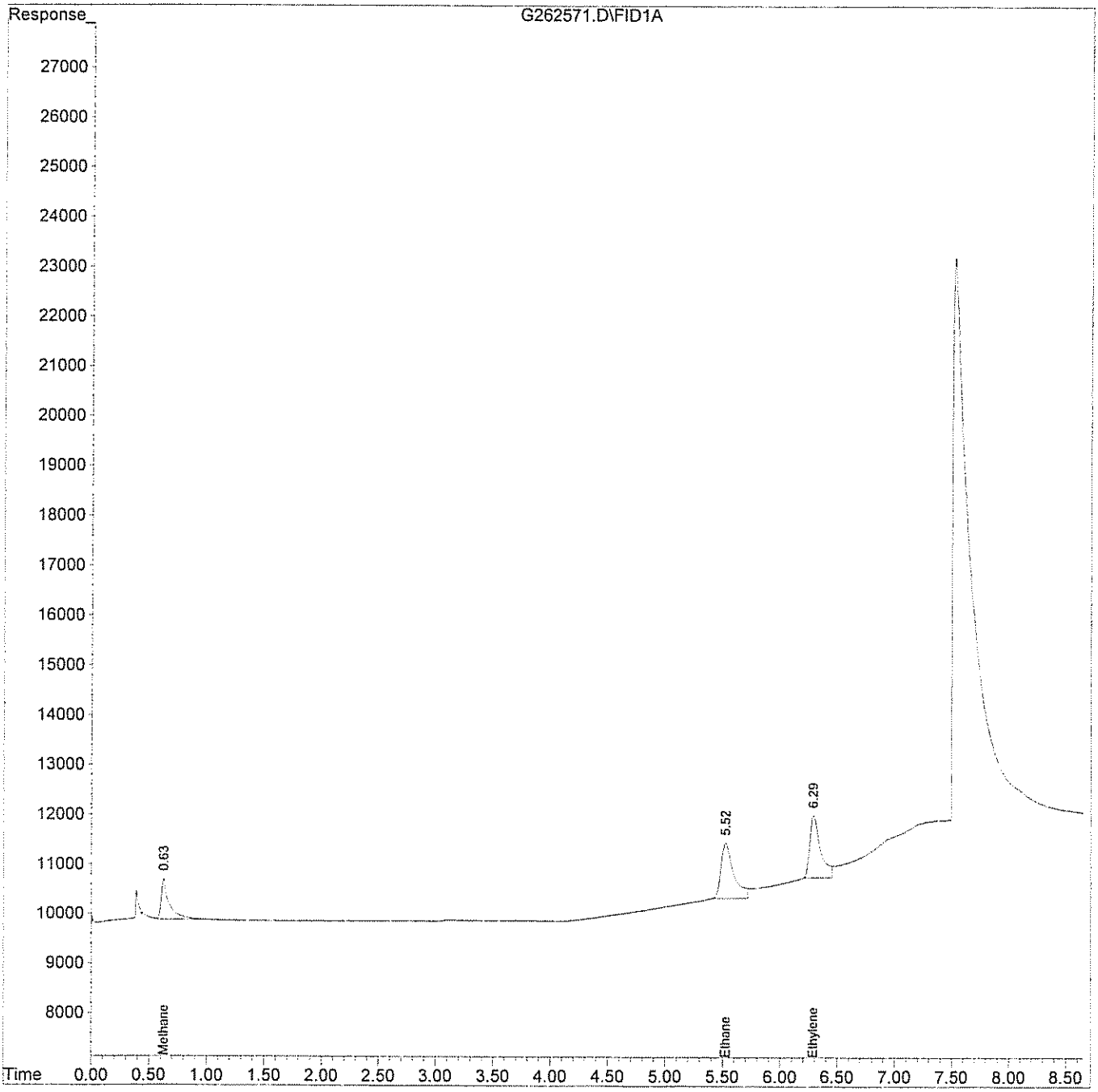
(f)=RT Delta > 1/2 Window (m)=manual int

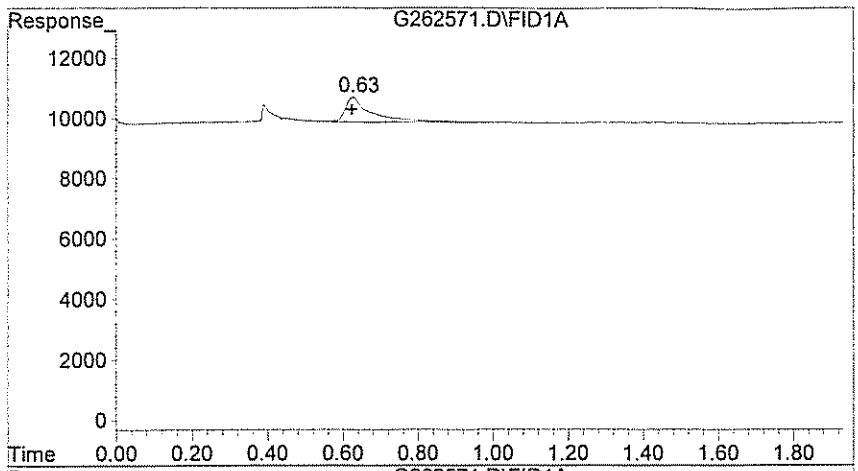
Quantitation Report

Data File : H:\GCDATA\G\032009\G262571.D Vial: 5
Acq On : 20 Mar 2009 10:13 Operator: TG
Sample : CAL010 Inst : GC-G
Misc : CAL010 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

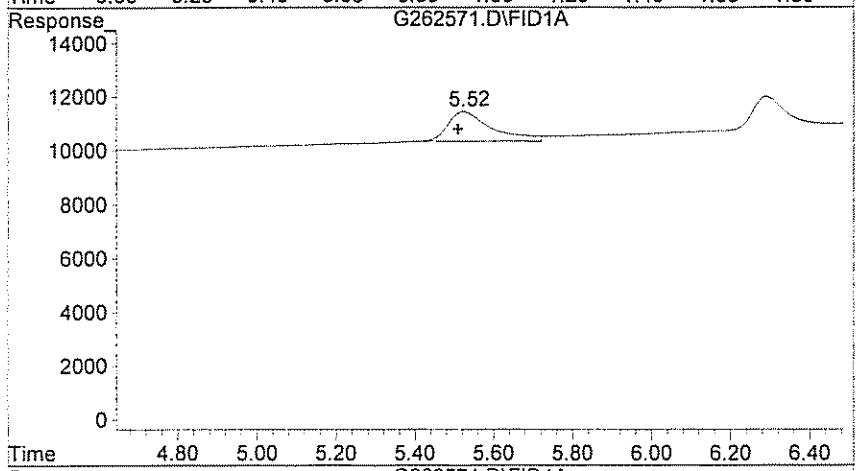
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





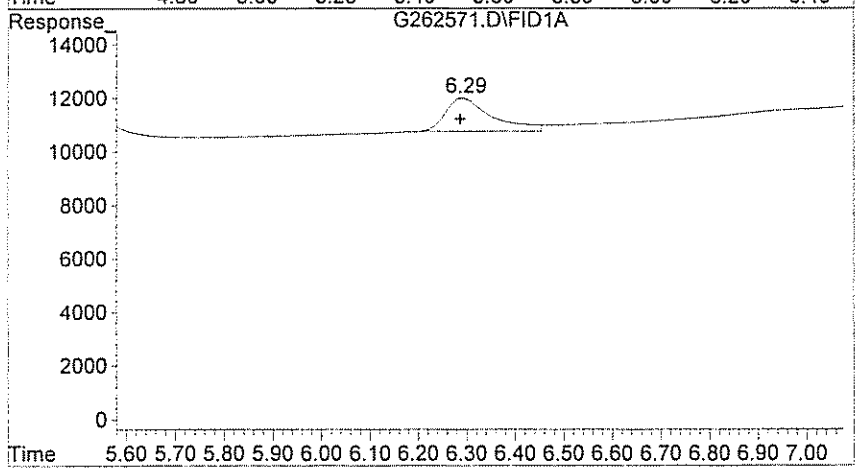
#1 Methane

R.T.: 0.627 min
Delta R.T.: 0.003 min
Response: 4022
Conc: 24.34 ppb m



#2 Ethane

R.T.: 5.523 min
Delta R.T.: 0.013 min
Response: 1121
Conc: 44.57 ppb



#3 Ethylene

R.T.: 6.287 min
Delta R.T.: 0.000 min
Response: 1253
Conc: 39.43 ppb

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032009\G262581.D
Acq On : 20 Mar 2009 15:38
Sample : CCV05
Misc : CCV05
IntFile : rteint.p

Vial: 15
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	127.470	18.5	85	-0.01
2	T	Ethane	23.713	22.628	4.6	108	0.00
3	T	Ethylene	29.730	26.907	9.5	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262581.D Vial: 15
Acq On : 20 Mar 2009 15:38 Operator: TG
Sample : CCV05 Inst : GC-G
Misc : CCV05 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 15:47 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc Units
Target Compounds					
1)	T	Methane	0.62	2116	13.535 ppb
2)	T	Ethane	5.52	706	29.772 ppb
3)	T	Ethylene	6.30	783	26.337 ppb

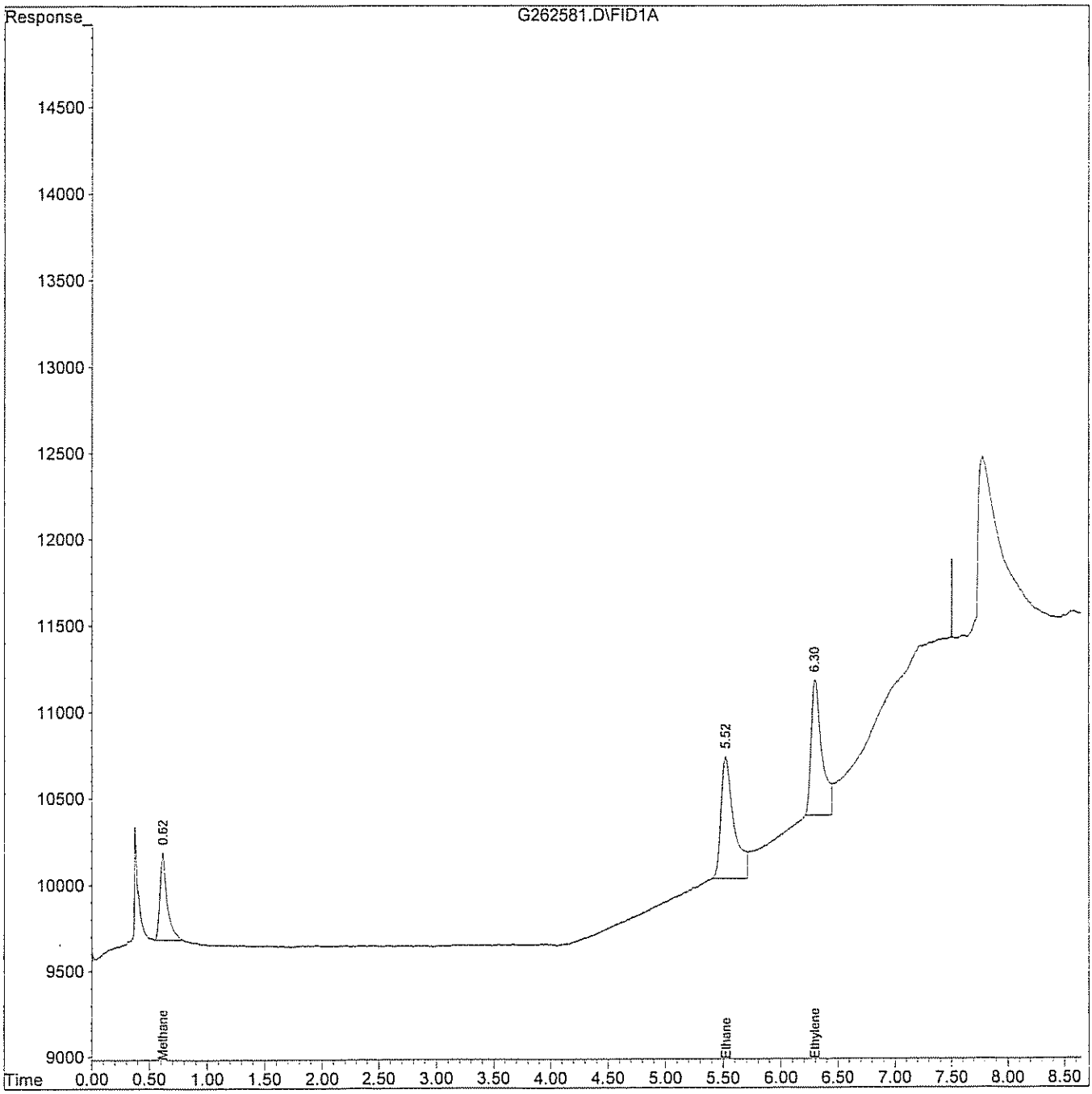
(f)=RT Delta > 1/2 Window (m)=manual
G262581.D RSK0320.M Fri Mar 20 15:49:12 2009 W28_IOANNIDE Page 1

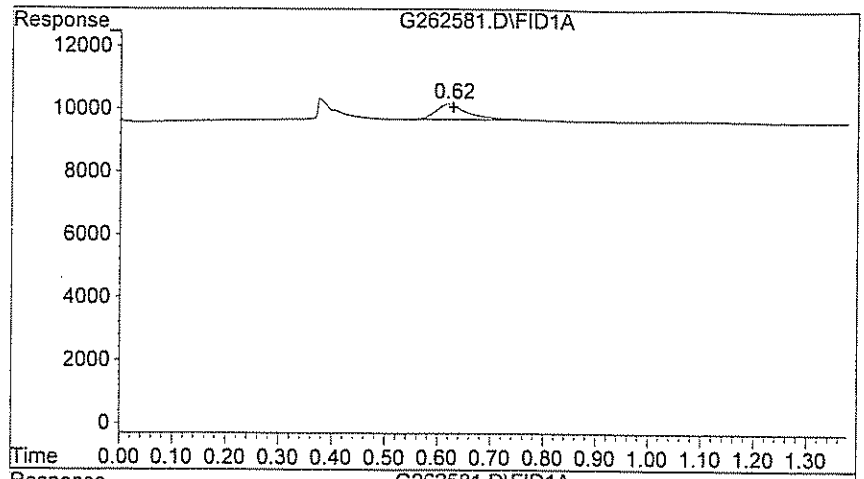
Quantitation Report

Data File : H:\GCDATA\G\032009\G262581.D Vial: 15
Acq On : 20 Mar 2009 15:38 Operator: TG
Sample : CCV05 Inst : GC-G
Misc : CCV05 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 15:47 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

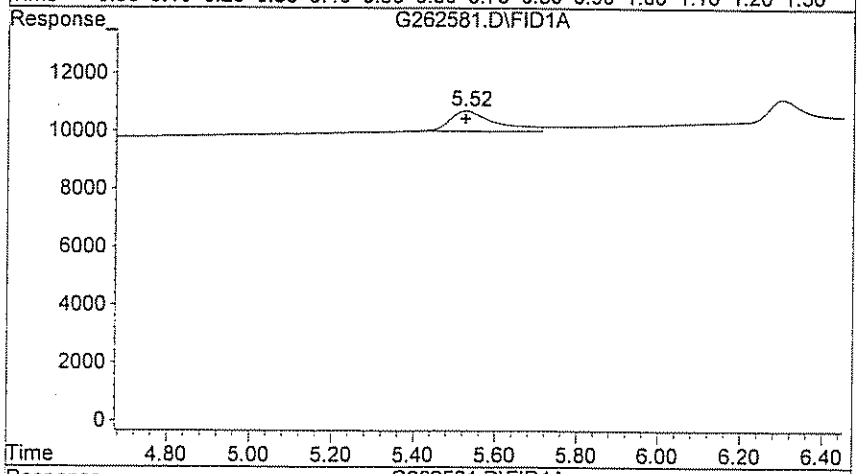
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





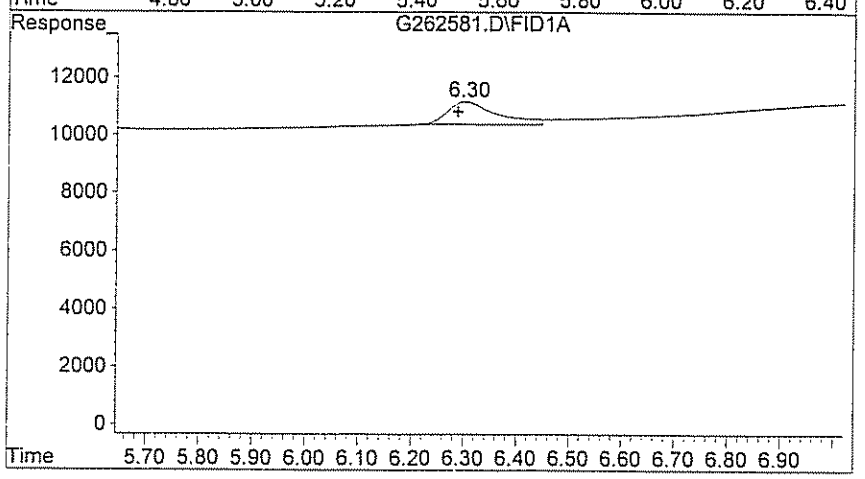
#1 Methane

R.T.: 0.617 min
Delta R.T.: -0.010 min
Response: 2116
Conc: 13.53 ppb



#2 Ethane

R.T.: 5.523 min
Delta R.T.: 0.000 min
Response: 706
Conc: 29.77 ppb



#3 Ethylene

R.T.: 6.297 min
Delta R.T.: 0.010 min
Response: 783
Conc: 26.34 ppb

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262616.D
Acq On : 23 Mar 2009 18:25
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 35
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	155.181	0.7	103	0.01
2	T	Ethane	23.713	19.679	17.0	94	0.02
3	T	Ethylene	29.730	24.089	19.0	87	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262616.D Vial: 35
Acq On : 23 Mar 2009 18:25 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 18:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.64	2576	16.477	ppb	m
2)	T	Ethane	5.55	614	25.893	ppb	m
3)	T	Ethylene	6.31	701	23.579	ppb	m

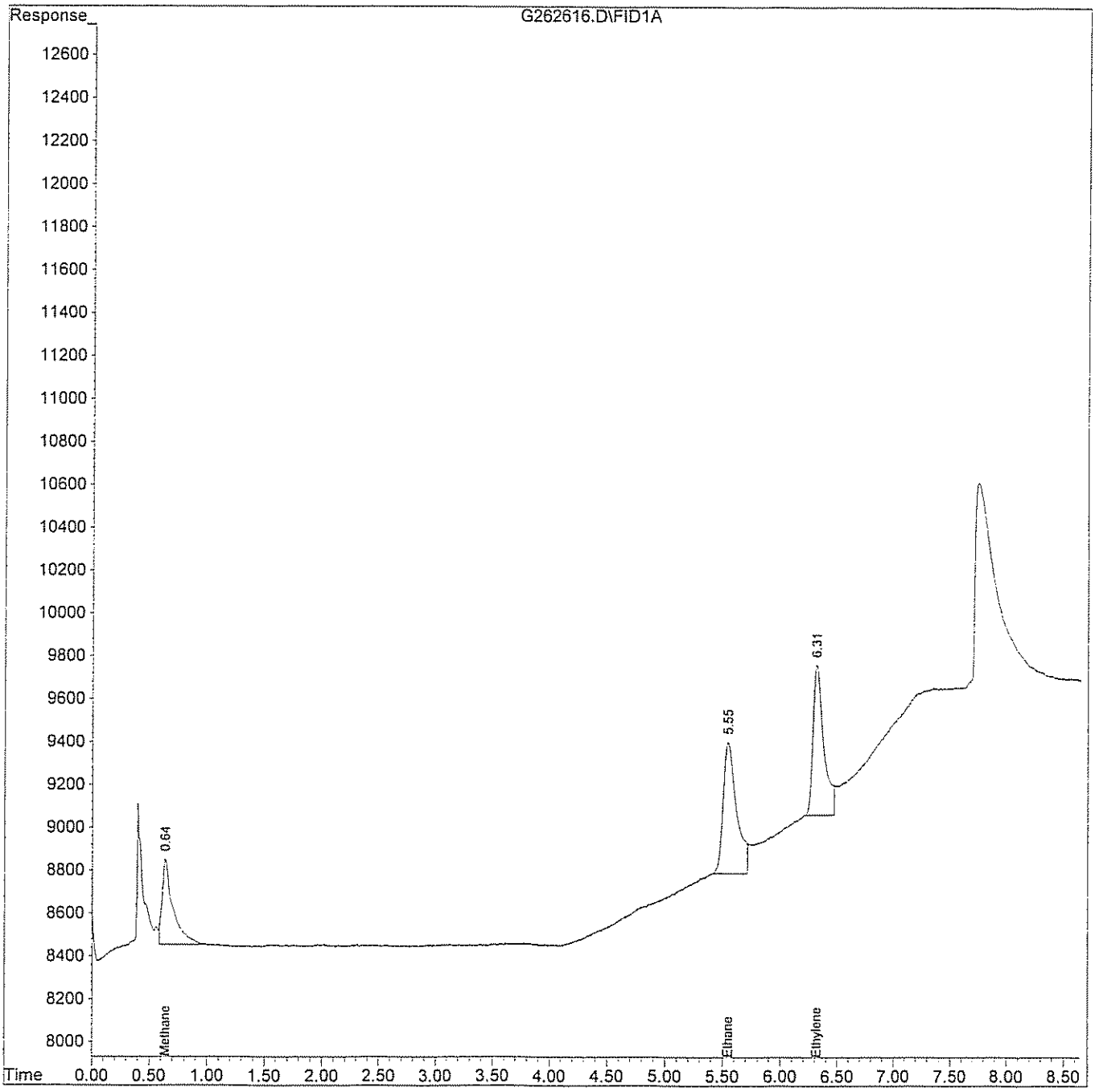
(f)=RT Delta > 1/2 Window (m)=manual

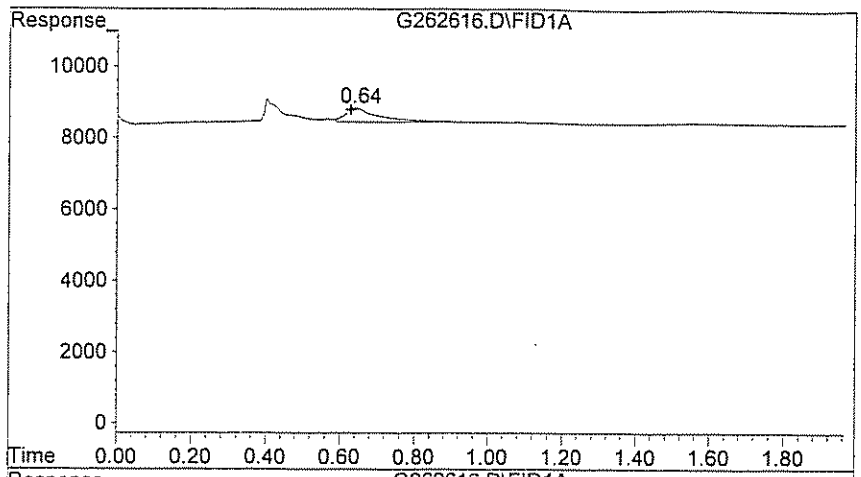
Quantitation Report

Data File : H:\GCDATA\G\032309\G262616.D Vial: 35
Acq On : 23 Mar 2009 18:25 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 18:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

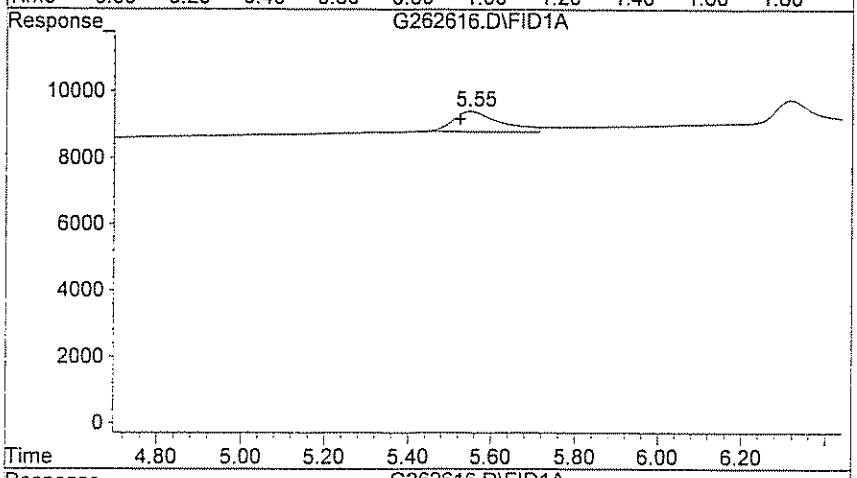
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





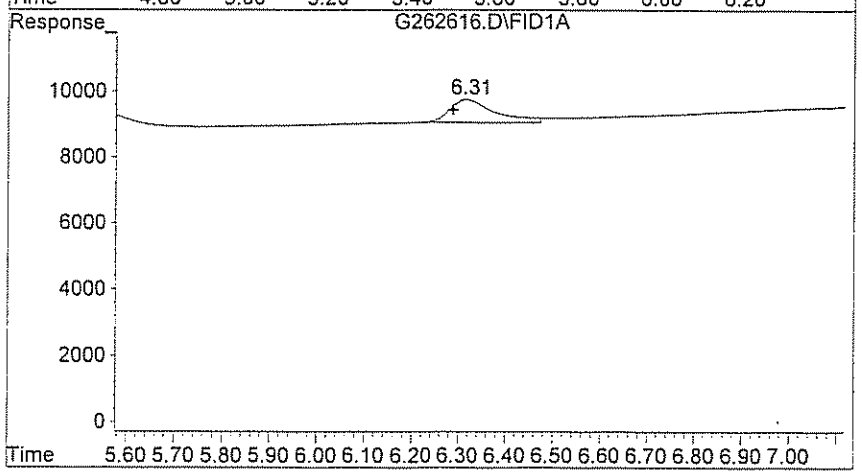
#1 Methane

R.T.: 0.637 min
Delta R.T.: 0.010 min
Response: 2576
Conc: 16.48 ppb m



#2 Ethane

R.T.: 5.547 min
Delta R.T.: 0.023 min
Response: 614
Conc: 25.89 ppb m



#3 Ethylene

R.T.: 6.313 min
Delta R.T.: 0.027 min
Response: 701
Conc: 23.58 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262605.D
Acq On : 23 Mar 2009 15:19
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 24
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	156.325	0.0	104	0.00
2	T	Ethane	23.713	21.571	9.0	103	0.03
3	T	Ethylene	29.730	24.983	16.0	90	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262605.D Vial: 24
Acq On : 23 Mar 2009 15:19 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 15:29 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.63	2595	16.599	ppb	m
2)	T	Ethane	5.55	673	28.381	ppb	
3)	T	Ethylene	6.32	727	24.453	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual

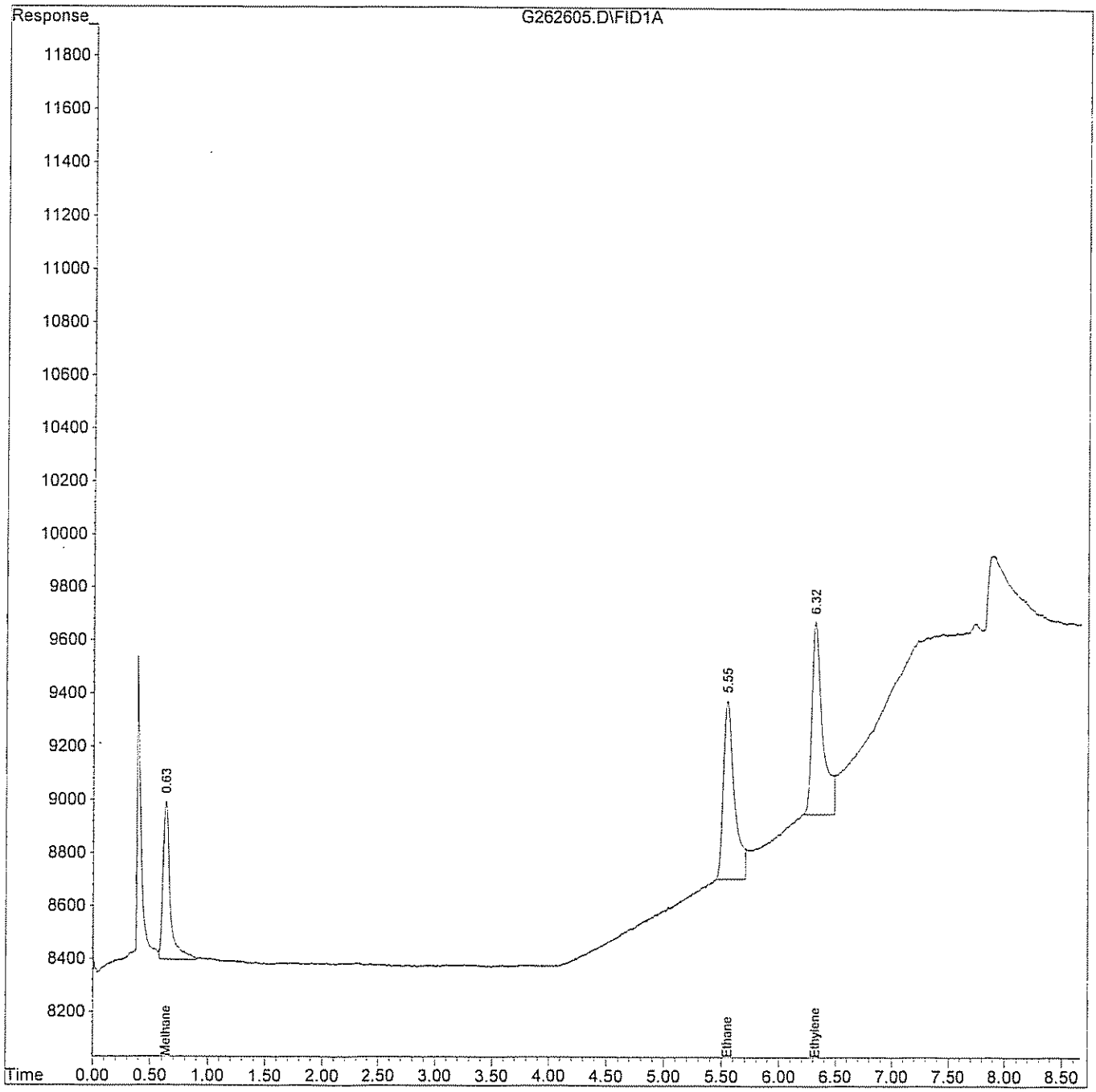
Quantitation Report

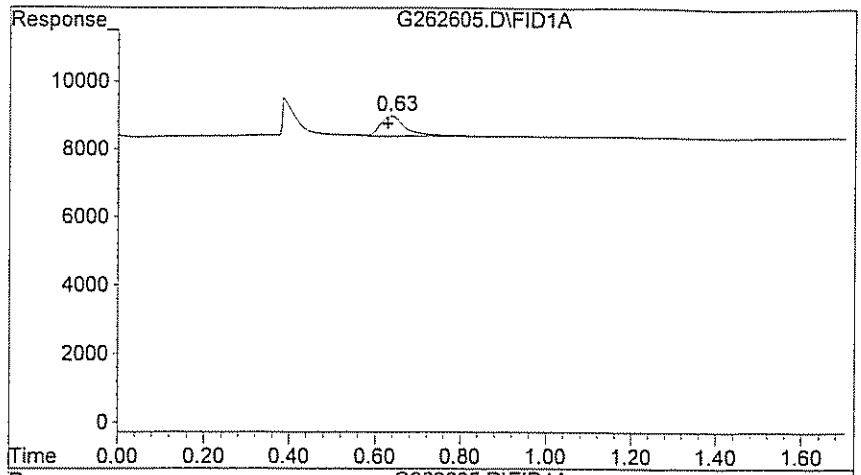
Data File : H:\GCDATA\G\032309\G262605.D
Acq On : 23 Mar 2009 15:19
Sample : CCV
Misc : CCV
IntFile : rteint.p
Quant Time: Mar 23 15:29 2009 Quant Results File: RSK0320.RES

Vial: 24
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

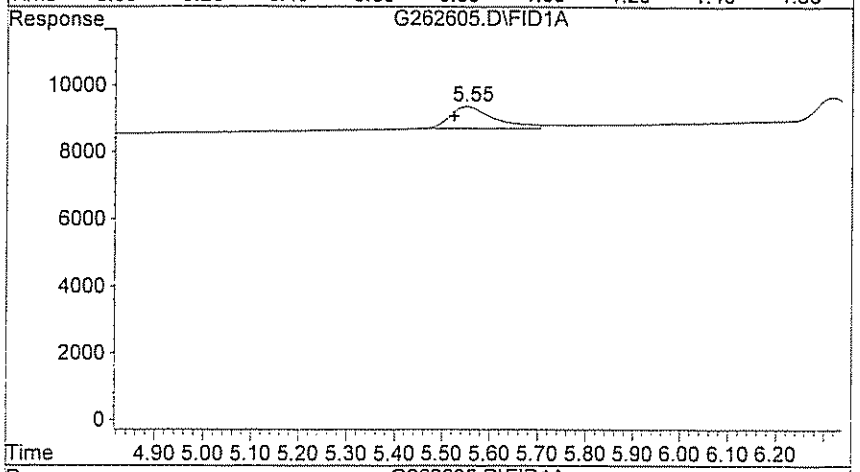
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





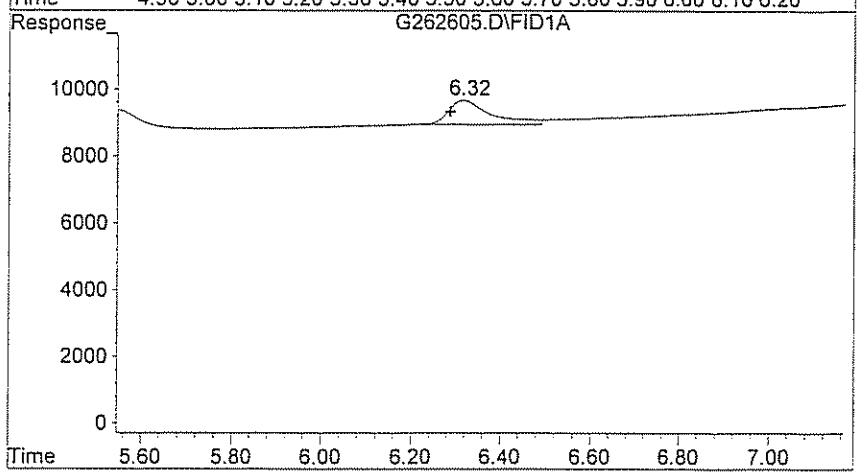
#1 Methane

R.T.: 0.633 min
Delta R.T.: 0.007 min
Response: 2595
Conc: 16.60 ppb m



#2 Ethane

R.T.: 5.550 min
Delta R.T.: 0.027 min
Response: 673
Conc: 28.38 ppb



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.030 min
Response: 727
Conc: 24.45 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262594.D Vial: 13
Acq On : 23 Mar 2009 12:02 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	126.747	18.9	84	-0.24
2	T	Ethane	23.713	20.609	13.1	99	0.02
3	T	Ethylene	29.730	24.605	17.2	89	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262594.D Vial: 13
Acq On : 23 Mar 2009 12:02 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:12 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.39	2104	13.458	ppb	
2)	T	Ethane	5.54	643	27.116	ppb	m
3)	T	Ethylene	6.31	716	24.083	ppb	m

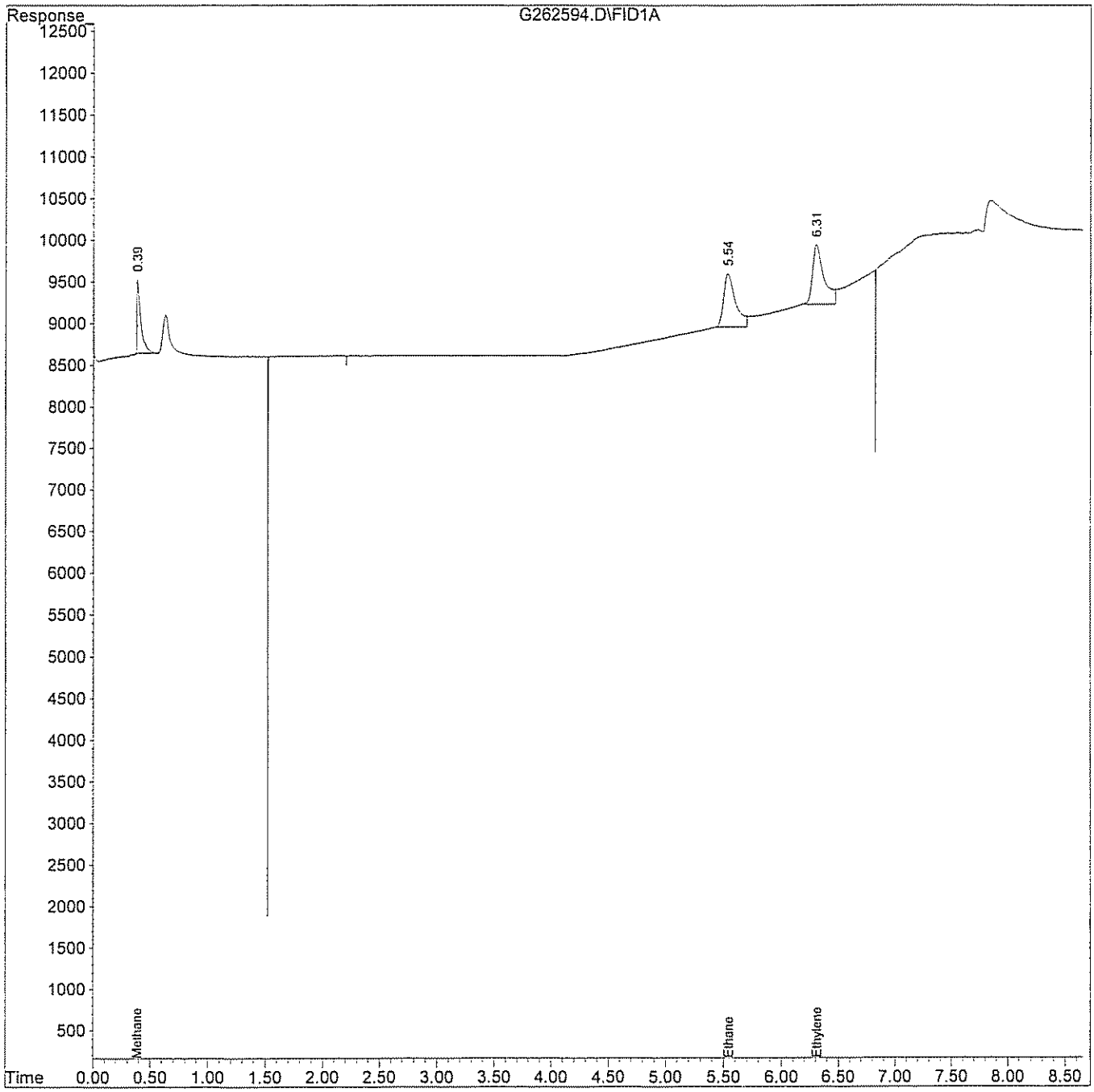
(f)=RT Delta > 1/2 Window (m)=manual int

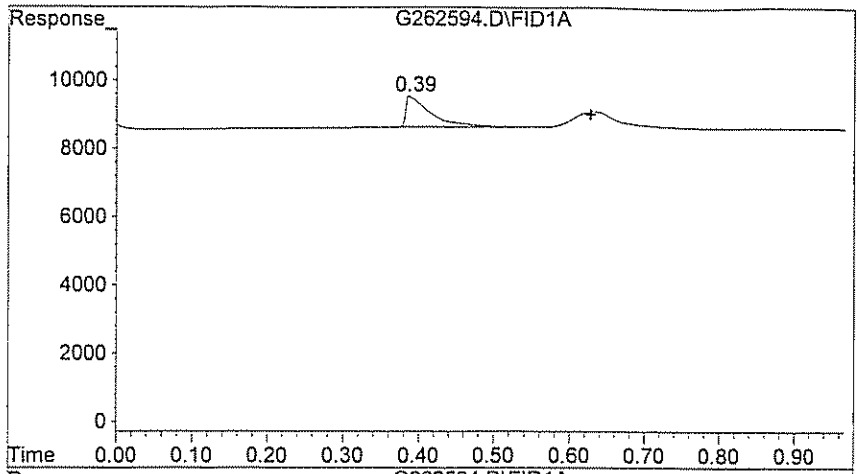
Quantitation Report

Data File : H:\GCDATA\G\032309\G262594.D Vial: 13
Acq On : 23 Mar 2009 12:02 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:12 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

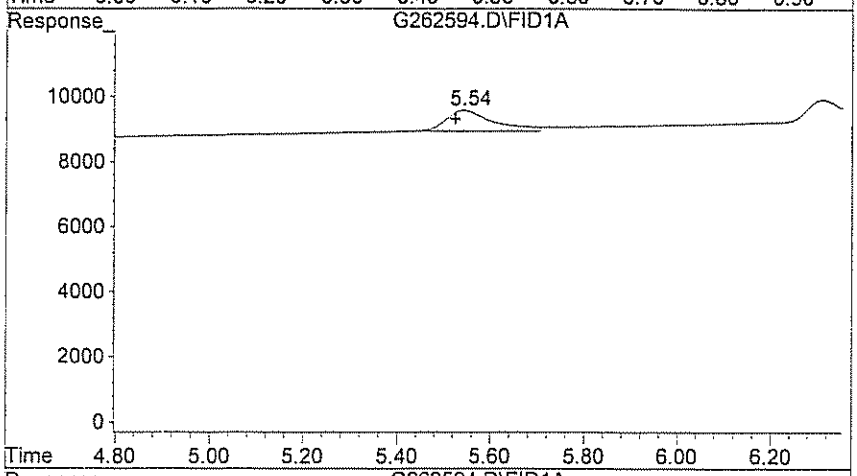
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





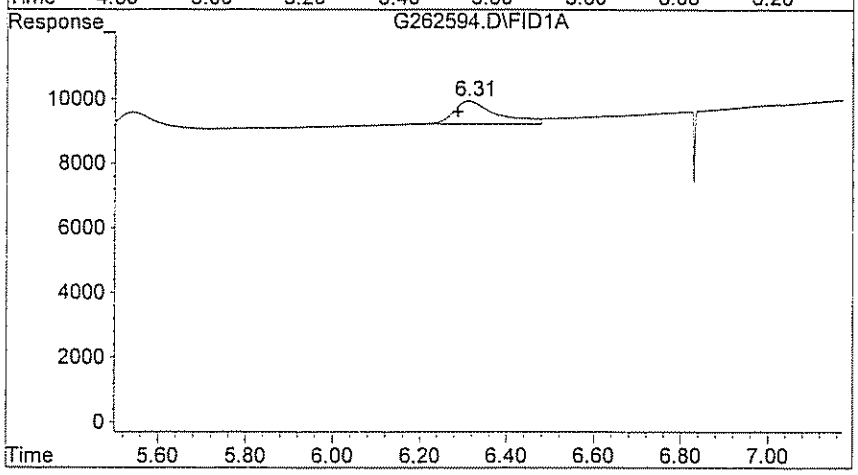
#1 Methane

R.T.: 0.387 min
Delta R.T.: -0.240 min
Response: 2104
Conc: 13.46 ppb



#2 Ethane

R.T.: 5.543 min
Delta R.T.: 0.020 min
Response: 643
Conc: 27.12 ppb m



#3 Ethylene

R.T.: 6.313 min
Delta R.T.: 0.027 min
Response: 716
Conc: 24.08 ppb m

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

6. Injection Logsheet

7. Control Charts (where applicable)

GPL Laboratories

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108776

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108776
Sample Volume :	10	Lab File ID :	G262595.D
% Moisture:		Date Received	
Extraction:	SW5030B	Date Extracted:	03/23/2009
Extract Volume:	10 mL	Date Analyzed	03/23/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262595.D Vial: 14
Acq On : 23 Mar 2009 12:17 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:27 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.00	0	N.D.	ppb	d
2)	T	Ethane	0.00	0	N.D.	ppb	
3)	T	Ethylene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manu

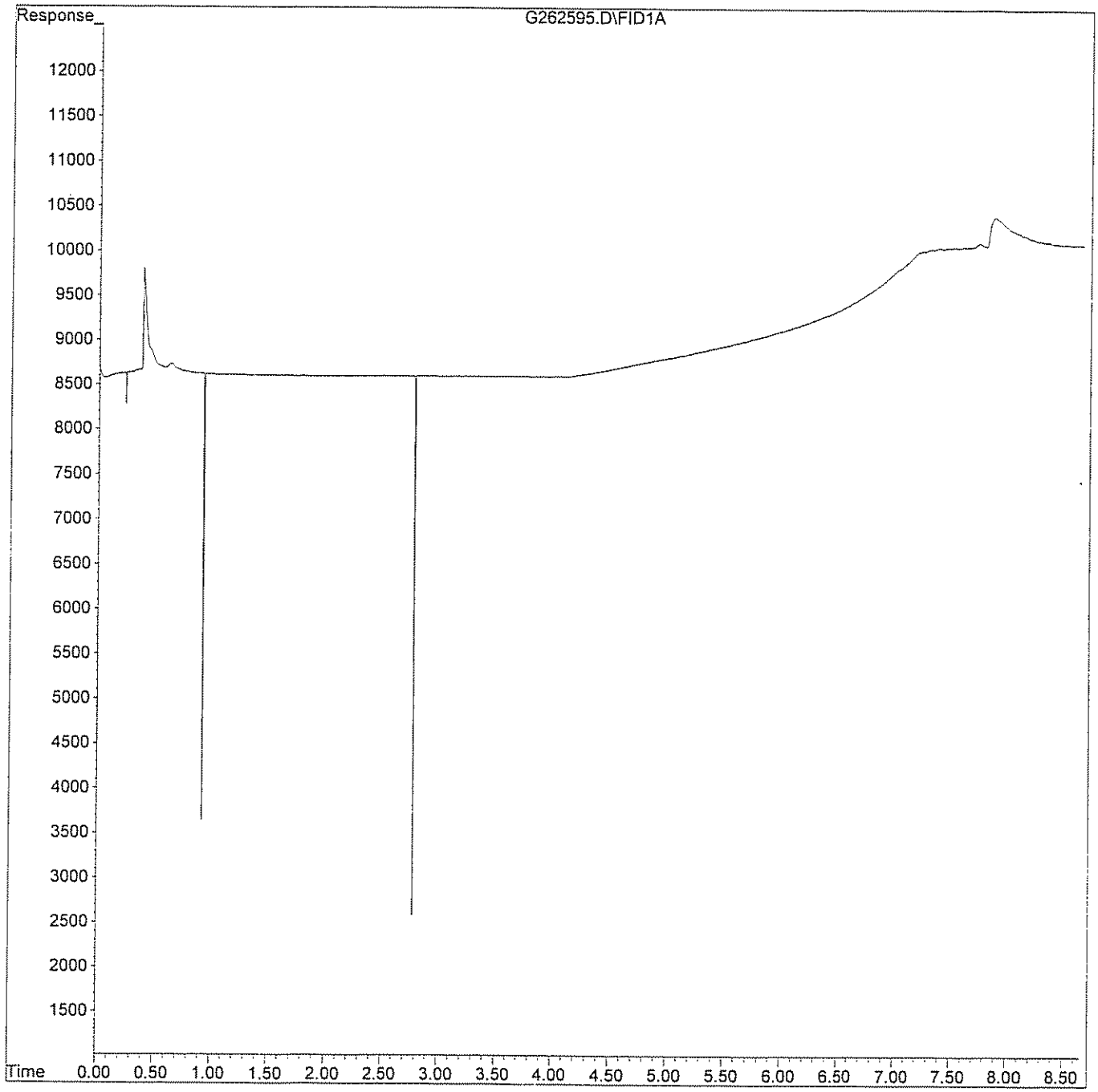
Quantitation Report

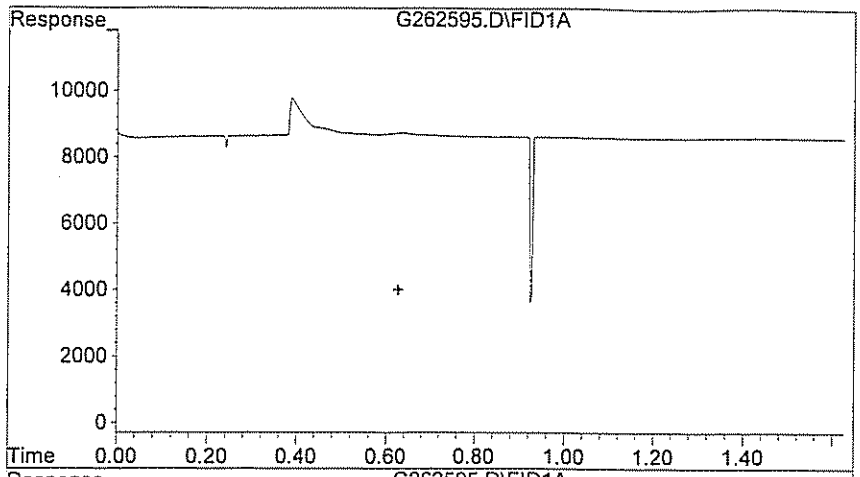
Data File : H:\GCDATA\G\032309\G262595.D
Acq On : 23 Mar 2009 12:17
Sample : BLK
Misc : BLK
IntFile : rteint.p
Quant Time: Mar 23 12:27 2009 Quant Results File: RSK0320.RES

Vial: 14
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

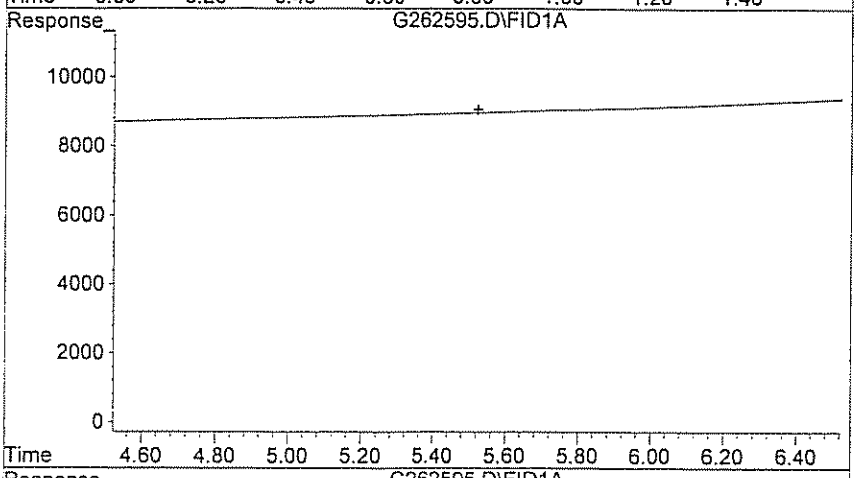
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





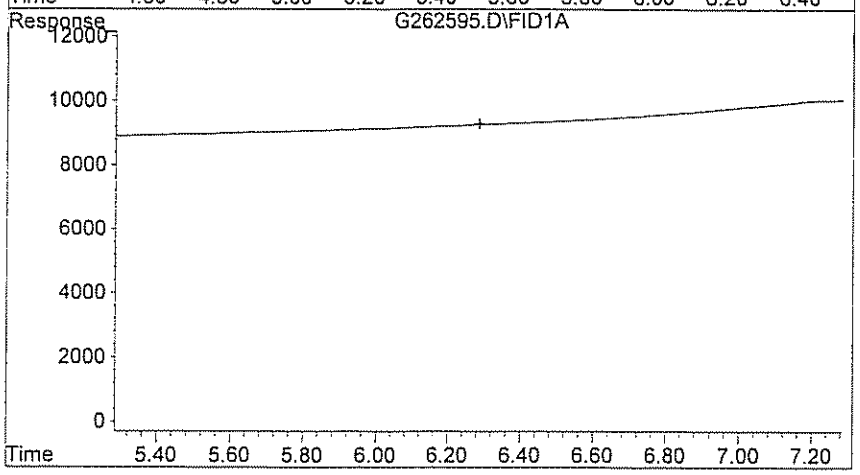
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108780

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108780
Sample Volume :	10	Lab File ID :	G262572.D
% Moisture:		Date Received	
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262572.D Vial: 6
Acq On : 20 Mar 2009 10:55 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 11:06 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units
Target Compounds						
1)	T	Methane	0.00	0	N.D.	ppb
2)	T	Ethane	0.00	0	N.D.	ppb
3)	T	Ethylene	0.00	0	N.D.	ppb

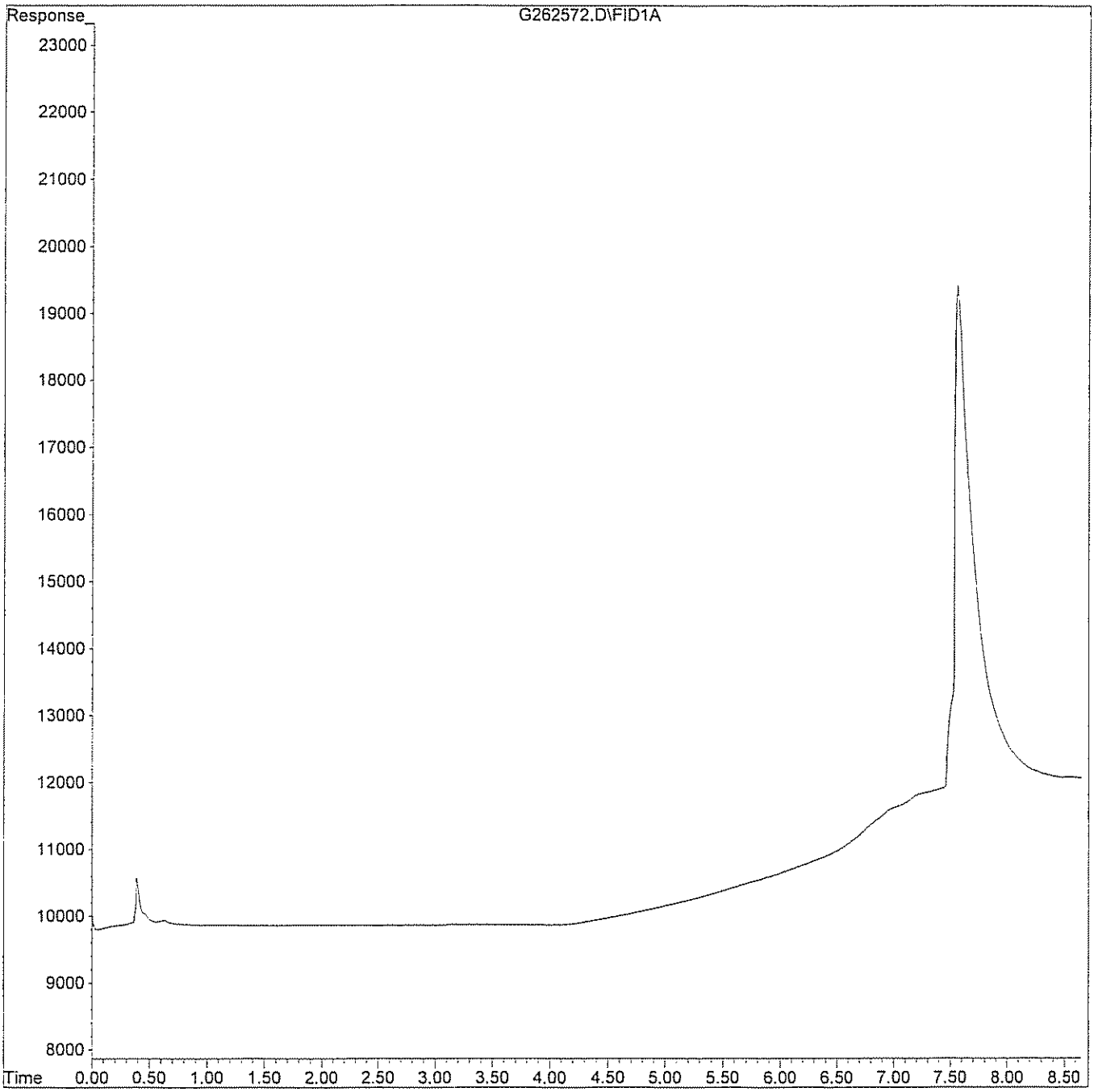
(f)=RT Delta > 1/2 Window (m)=manu
G262572.D RSK0320.M Fri Mar 20 11:46:15 2009 W28_IOANNIDE Page 1

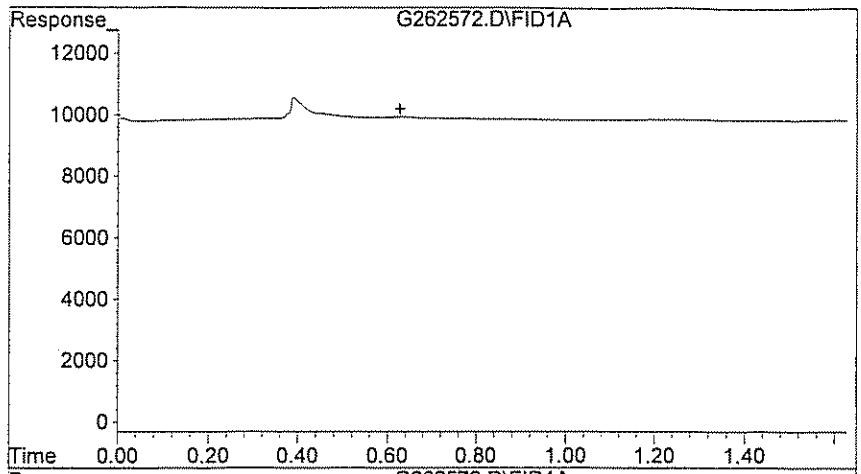
Quantitation Report

Data File : H:\GCDATA\G\032009\G262572.D Vial: 6
Acq On : 20 Mar 2009 10:55 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 11:06 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

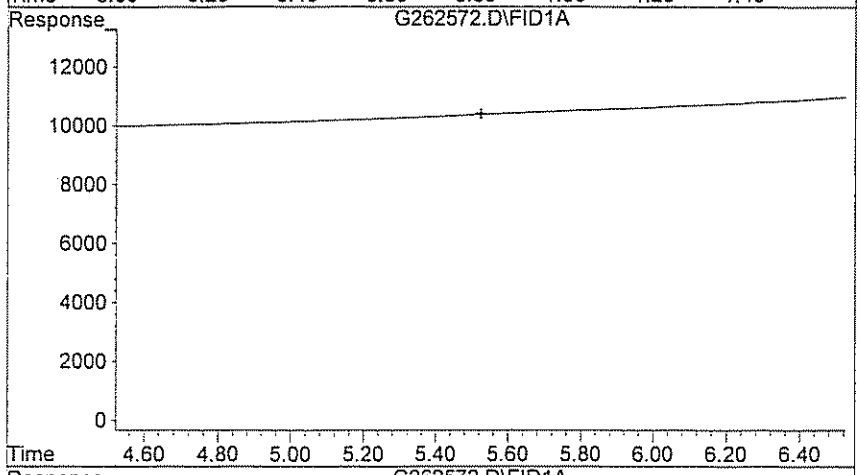
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





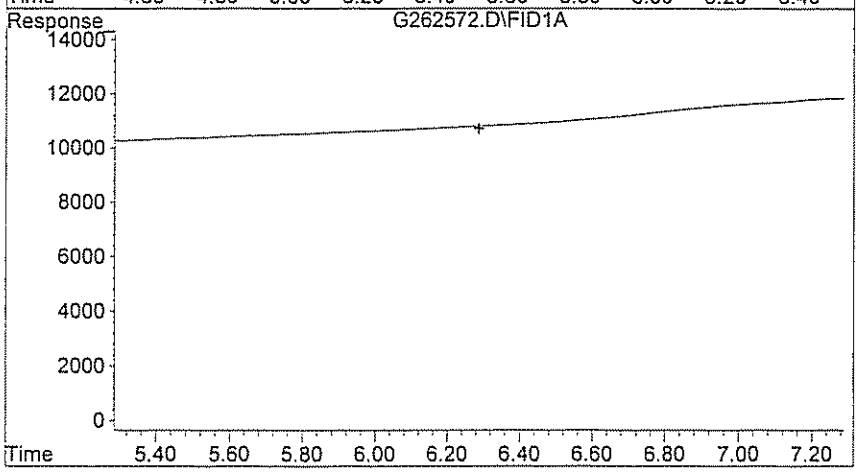
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-032-1/2MS
Sample Volume :	10	Lab File ID :	G262579.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	30	
74-85-1	Ethene	26	
74-82-8	Methane	16	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262579.D Vial: 13
Acq On : 20 Mar 2009 14:23 Operator: TG
Sample : 903062-006MS Inst : GC-G
Misc : OUI-16GW01-0309, CH2M, WATER, 10MLMS Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 14:49 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) T	Methane	0.62	2423	15.499 ppb
2) T	Ethane	5.52	701	29.562 ppb
3) T	Ethylene	6.29	759	25.530 ppb

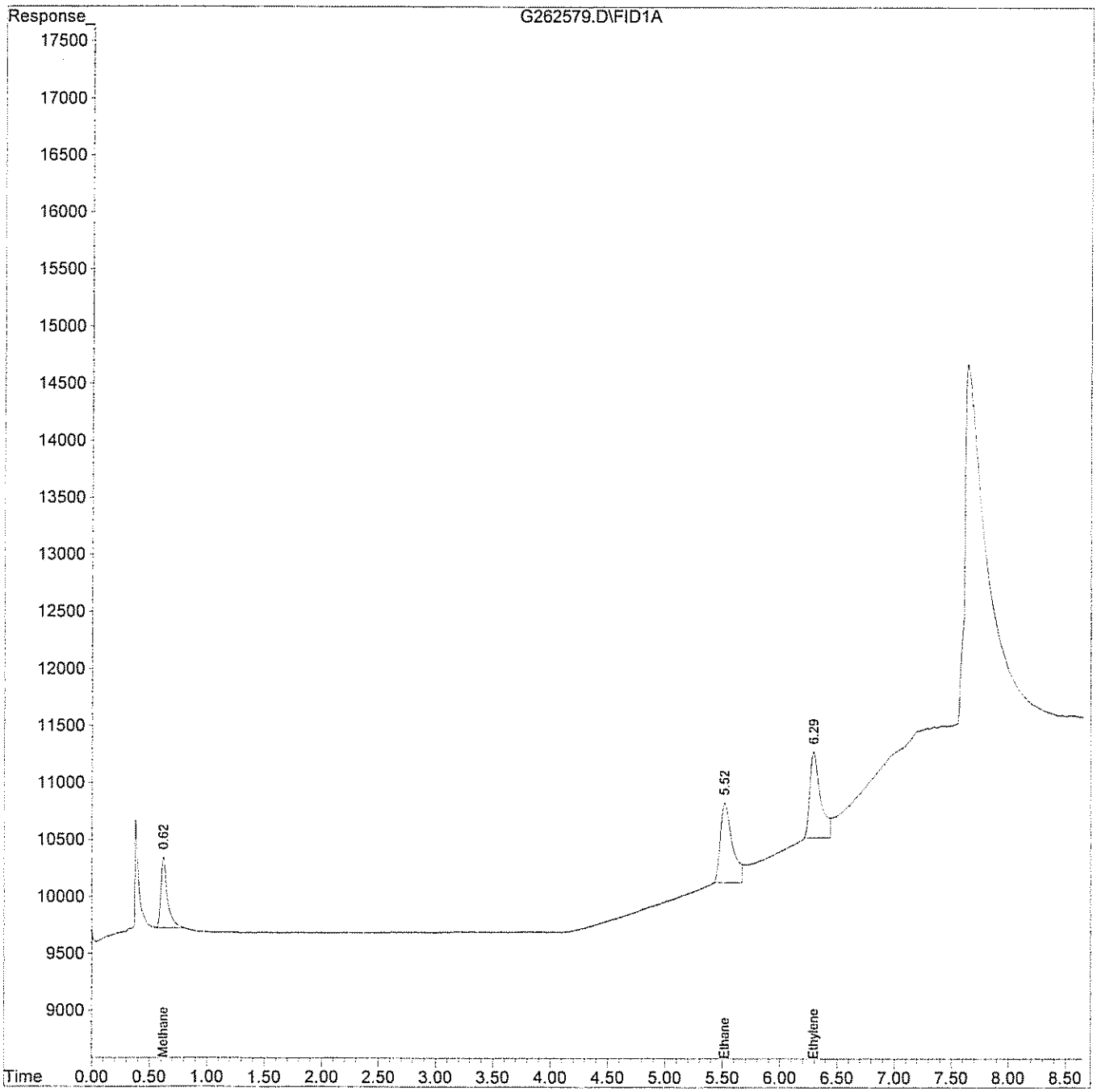
(f)=RT Delta > 1/2 Window (m)=manual int

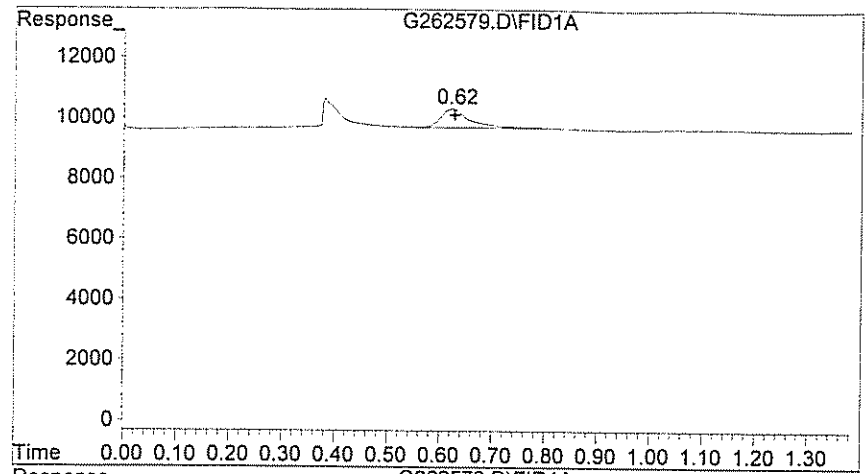
Quantitation Report

Data File : H:\GCDATA\G\032009\G262579.D Vial: 13
Acq On : 20 Mar 2009 14:23 Operator: TG
Sample : 903062-006MS Inst : GC-G
Misc : OUI-16GW01-0309, CH2M, WATER, 10MLMS Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 14:49 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

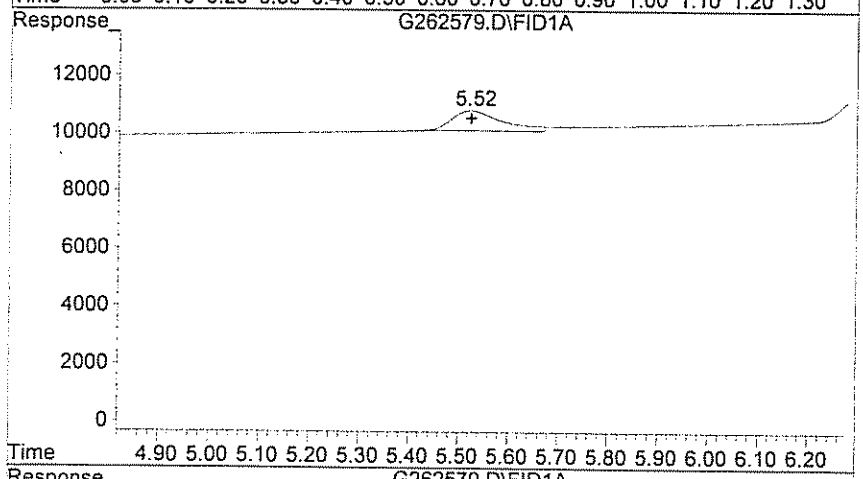
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





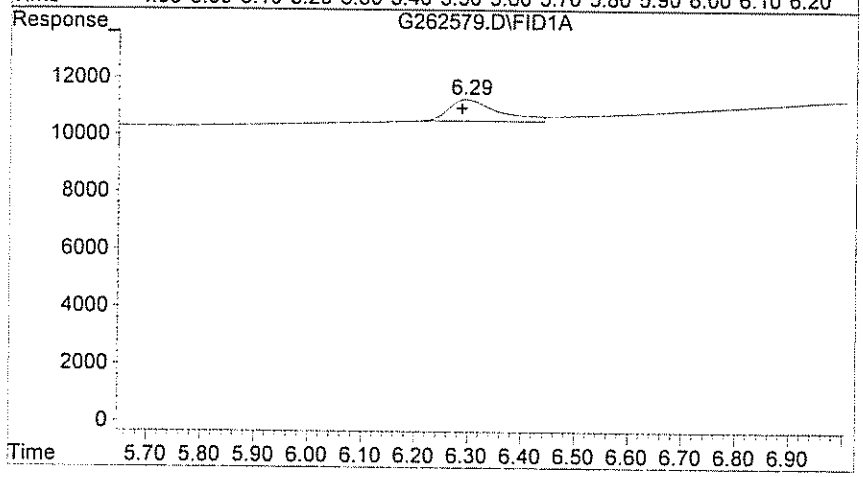
#1 Methane

R.T.: 0.620 min
Delta R.T.: -0.007 min
Response: 2423
Conc: 15.50 ppb



#2 Ethane

R.T.: 5.520 min
Delta R.T.: -0.003 min
Response: 701
Conc: 29.56 ppb



#3 Ethylene

R.T.: 6.293 min
Delta R.T.: 0.007 min
Response: 759
Conc: 25.53 ppb

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-032-1/2MSD
Sample Volume :	10	Lab File ID :	G262580.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	29	
74-85-1	Ethene	25	
74-82-8	Methane	16	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262580.D Vial: 14
Acq On : 20 Mar 2009 15:24 Operator: TG
Sample : 903062-006MSD Inst : GC-G
Misc : OUI-16GW01-0309,CH2M,10ML,MSD Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 15:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.62	2540	16.247	ppb	m
2) T	Ethane	5.52	687	28.971	ppb	
3) T	Ethylene	6.30	753	25.328	ppb	

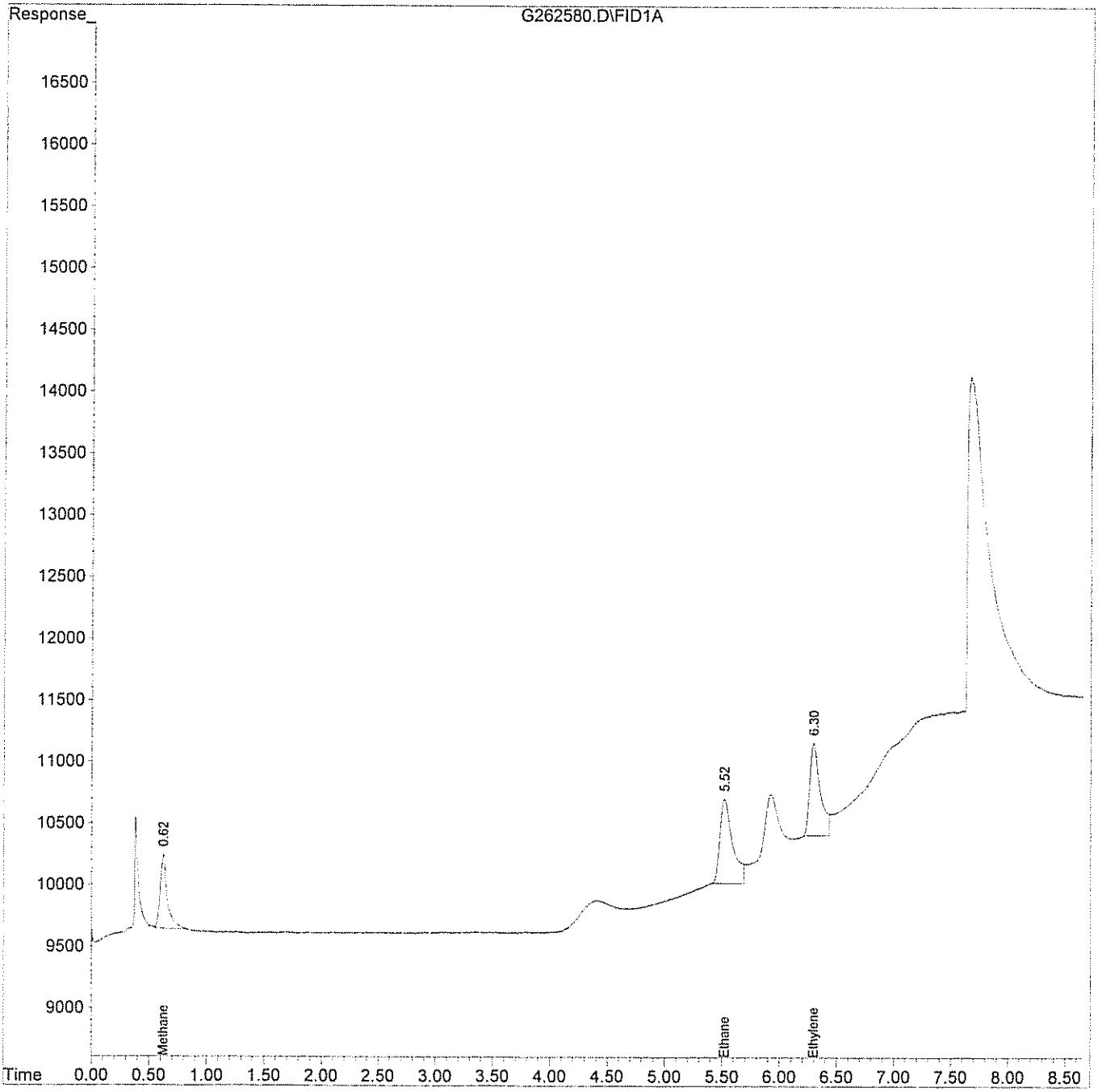
(f)=RT Delta > 1/2 Window (m)=manual int

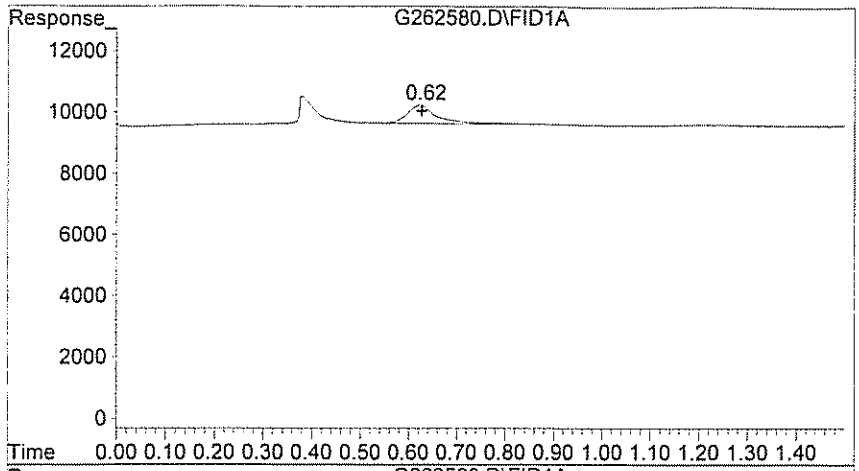
Quantitation Report

Data File : H:\GCDATA\G\032009\G262580.D Vial: 14
Acq On : 20 Mar 2009 15:24 Operator: TG
Sample : 903062-006MSD Inst : GC-G
Misc : OUI-16GW01-0309,CH2M,10ML,MSD Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 15:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

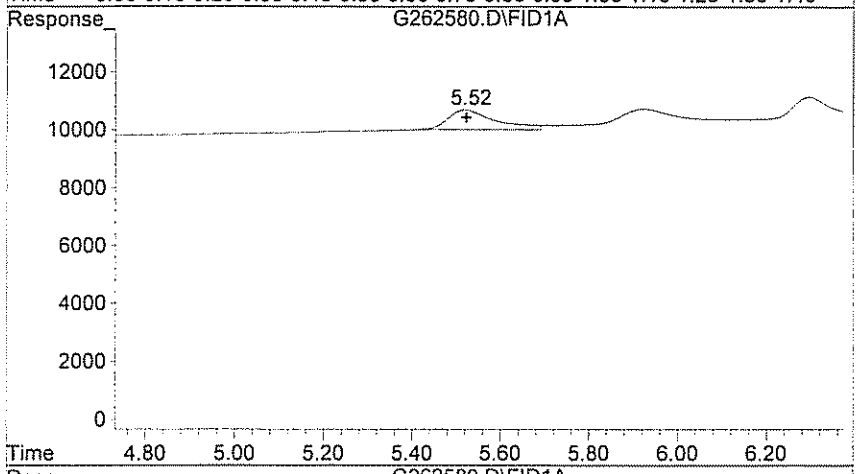
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





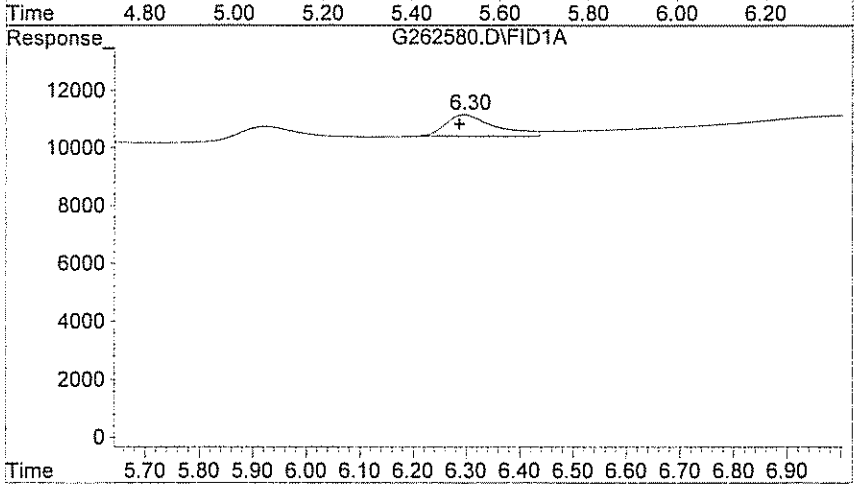
#1 Methane

R.T.: 0.623 min
Delta R.T.: -0.003 min
Response: 2540
Conc: 16.25 ppb m



#2 Ethane

R.T.: 5.520 min
Delta R.T.: -0.003 min
Response: 687
Conc: 28.97 ppb



#3 Ethylene

R.T.: 6.297 min
Delta R.T.: 0.010 min
Response: 753
Conc: 25.33 ppb

GPL Laboratories, LLLP

Document Control No: GP_V_152

GC/MS ANALYSIS — VOLATILES

Reviewed By: ✓ DATE: 3/25/09

INSTRUMENT ID: HP 5890 # G
ANALYSIS/FRACTION: VOA
ANALYSTS: TG
ICAL DATE: 3/20/09

METHOD FILE: RSK0320
SEQUENCE FILE: 03120109

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262567	Cal 01	3/20/09	1X	water	10mL	N/A	RSK175	OK
	G 68	cal 02							ok
	G 69	Cal 04							OK
	G 70	Cal 05							Ok
	G 71	cal 010							OK
	G 72	BLK							Ok
	G 73	903062-001							Ok
	G 74	-002							Ok
	G 75	-003							Ok
	G 76	-004							Ok need dilution TG. not used
	G 77	-005							need dilution TG not used
	G 78	-006							OK
	G 79	-006MS							Ok
	G 80	-006MSD							Ok
	G 81	CCV05							OK
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								

TG 3/23/09

REMARKS

Standards	Lot #	Conc.	Prep. Date	Volume
Methane	8282011	1000PPM	3/18/2009	2-5mL
Ethane	907605I	↓	3/17/2009	↓
Ethylene	8014011	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NV DATE: 3/25/09

INSTRUMENT ID: HP 5890 # G
ANALYSIS/FRACTION: VOA
ANALYSTS: TL
ICAL DATE: 03/20/09

METHOD FILE: RSK 0302.M
SEQUENCE FILE: 03123109

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G262582	CCV05	3/23/09	STD	STD	10mL	N/A	RSK175	not used
	G 83	CCV05							
	G 84	CCV05							
	G 85	BLK							
	G 86	CCV05							
	G 87	CCV05							
	G 88	CCV05							
	G 89	CCV05		↓	↓	↓			
	G 90	903062-004 DL		5X	water	200ml TL			
	G 91	903062-004 DL2		20X		~~500ml~~ 500ml			
	G 92	903062-004 DL3		20X		↓			
	G 93	903062-004 DL 3		50X		200ml			↓
	G 94	CCV		STD		10mL			OK
	G 95	BLK		STD		↓			OK
	G 96	903062-004 DL		50X		200ml			OK
	G 97	903062-005 DL		20X		500ml			OK
	G 98	903069-001		1X		10ml			Ok
	G ↓ 99	903069-002		↓		↓			needs dilution - not used
	G2626 00	903069-002MS		~~1X~~ 10X TL		10ml			needs dilutions not used TL
	G 01	903069-002DL		10X		1ml			OK
	G 02	903069-002DLMS		10X		↓			Ok
	G 03	903069-002DLMSD		↓		↓			Ok
	G 04	CCV		STD		10ml			needs dilution - not used
	G 05	CCV		STD		↓			used
	G 06	903069-003		1X		10ml			needs dilution - not used
	G ↓ 07	903069-004	↓	↓	↓	↓	↓	↓	↓

TL - 3/25/09

REMARKS

Y/2

Standards	Lot #	Conc.	Prep. Date	Volume
methane	828201L	1000PPm	3/18/2009	2.5mL
Ethane	907605L	↓	3/17/2009	↓
Ethylene	801401L	↓	7/16/2009	↓

GENERAL CHEMISTRY

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary
   (where applicable)

GPL Laboratories, LLLP

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903062

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-EB-031009	BQL	BQL	N/C	15%
Sulfide	E376.1	OU1-FB-031009	BQL	BQL	N/C	15%

%RPD - 0 out of 2 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-EB-031009	0.18	5.22	5.00	101	85 - 115%
TOC	SW9060	OU1-FB-031009	0.13	5.62	5.00	110	85 - 115%

% Recovery - 0 out of 2 outside control limits

B. Sample Data

GPL Laboratories, LLLP

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1								☐									
2								☐									
3								☐									
4	Sulfide	AN	903057-002-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
5	Sulfide	AN	903057-003-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
6	Sulfide	AN	903057-004-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
7	Sulfide	AN	903057-005-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
8	Sulfide	AN	903062-001-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
9	Sulfide	AN	903062-001-04	MD / S	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
10	Sulfide	AN	903062-002-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
11	Sulfide	AN	903062-002-04	MD / S	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
12	Sulfide	AN	903062-003-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
13	Sulfide	AN	903062-004-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
14	Sulfide	AN	903062-005-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
15	Sulfide	AN	903062-006-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
16	Sulfide	AN	903069-001-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
17	Sulfide	AN	903069-002-10	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
18	Sulfide	AN	903069-002-10	MD / S	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
19	Sulfide	AN	903069-003-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
20	Sulfide	AN	903069-004-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
21	Sulfide	AN	903069-005-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
22	Sulfide	AN	903069-006-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
23	Sulfide	AN	903069-007-10	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
24	Sulfide	AN	903069-007-10	MD / S	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
25	Sulfide	AN	903069-008-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
26	Sulfide	AN	903069-009-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000

Method Title: Sulfide (~~Titrimetric~~)
Method Reference: ~~MCAWW 376.1~~ / 9031
Normality of Iodine ~~(Avg. N)~~: 0.02675
Detection Limit: 2.0 mg/L

#129037

Analyst: DAM
Date / Time: 3-17-09 / 1200
Reviewed by/Date: 3-18-09

ANALYSIS RAW DATA

Work Order	Frac.	Client ID	Sample Vol. (ml)	Iodine (ml)	Sodium Thiosulfate (ml)	Sulfide mg/L
ICV #44135		ICV	20	5	5.13	4.40
ICB blank		ICB	20	5	5.34	< 2.0
403062	001		20	5	5.35	< 2.0
	001MD		20	5	5.36	< 2.0
	002		20	5	5.34	< 2.0
	002MD		20	5	5.35	< 2.0
	003		20	5	5.35	< 2.0
	004		20	5	5.34	< 2.0
	005		20	5	5.30	< 2.0
↓	006		20	5	5.37	< 2.0
903057	002		20	5	5.33	< 2.0
↓	003		20	5	5.26	< 2.0
CCV #44135		CCV	20	5	5.15	4.00
blank		CCB	20	5	5.35	< 2.0
903057	004		20	5	5.36	< 2.0
↓	005		20	5	5.35	< 2.0
903069	001		20	5	5.28	< 2.0
	002		20	5	5.30	< 2.0
	002MD		20	5	5.32	< 2.0
	003		20	5	5.26	< 2.0
	004		20	5	5.28	< 2.0
	005		20	5	5.30	< 2.0
↓	006		20	5	5.27	< 2.0

CALCULATION:

1. mg/L Sulfide = $\frac{[(A \times B) - (C \times D)] \times 16000}{\text{mL Sample}}$ .13375

where:

A = ml Iodine ; B = Normality of iodine;
C = ml $Na_2S_2O_3$ titrant; D = Normality of $Na_2S_2O_3$

Continued →

* H2O Final Results = Dilution Factor X Concentration

Soil Final Results = $\frac{\text{Dilution Factor x Concentration x extract volume}}{\text{wt. of sample x \% solids}}$

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1																	
2																	
3																	
4	Total Organic Carbon	AN	903062-001-04	SMP /	SW9060	0	1.0000	✓	0.1759	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.1759
5	Total Organic Carbon	AN	903062-001-04	MS / S	SW9060	5.22	1.0000	✓	5.2218	1.00000000	MGL	MGL	5.2200	0	5.0000	104.00	5.2218
6	Total Organic Carbon	AN	903062-002-04	SMP /	SW9060	0	1.0000	✓	0.1336	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.1336
7	Total Organic Carbon	AN	903062-002-04	MS / S	SW9060	5.62	1.0000	✓	5.6179	1.00000000	MGL	MGL	5.6200	0	5.0000	112.00	5.6179
8	Total Organic Carbon	AN	903062-003-04	SMP /	SW9060	7.04	1.0000	✓	7.0432	1.00000000	MGL	MGL	7.0400	0	0.0000	0.00	7.0432
9	Total Organic Carbon	AN	903062-004-04	SMP /	SW9060	5.30	1.0000	✓	5.2989	1.00000000	MGL	MGL	5.3000	0	0.0000	0.00	5.2989
10	Total Organic Carbon	AN	903062-005-05	SMP /	SW9060	9.52	1.0000	✓	9.5180	1.00000000	MGL	MGL	9.5200	0	0.0000	0.00	9.5180
11	Total Organic Carbon	AN	903062-006-05	SMP /	SW9060	3.07	1.0000	✓	3.0743	1.00000000	MGL	MGL	3.0700	0	0.0000	0.00	3.0743

Method Title: Total Organic Carbon
Method Reference: MCAWW ~~415.1~~ / ~~SM5310C~~
Lloyd Kahn / 9060

Analyst: DAH
Date: 3-17-09 / 1200
Reviewed by / Date: C 3-18-09

415.1 = # 123971 9060 = # 124035

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
#43278	ICV	20	3	11.2927	11.29	33.9
blank	ICB	20	1	0.2339	0.23	<1.0
902164-001		20	1	1.5130	1.51	1.51
-002				2.2983	2.30	2.30
903057 ~~-002~~ DAH 3-17-09 -002				0.5116	0.51	<1.0
-003				0.8906	0.89	<1.0
-004				0.6896	0.69	<1.0
-005				1.0430	1.04	1.04
-005MD		20	1	1.0516	1.05	1.05
-005MS	Spike = 5.00 mg/L #41761	20	1	6.2303	6.23	6.23
#43278	CCV1	20	3	11.2978	11.30	33.9
blank	CCB1	20	1	0.2376	0.24	<1.0
903062-001(1)	Mean = 0.1759 mg/L	20	1	0.2781	0.28	0.28 (<1.0)
(2)				0.1586	0.16	<1.0
(3)				0.1384	0.14	<1.0
(4)				0.1306	0.13	<1.0
903062-001MS(1)	Mean = 5.2218 mg/L	20	1	5.1785	5.18	5.18
(2)	Spike = 5.00 mg/L			5.2651	5.27	5.27
903062-002(1)	Mean = .1335 mg/L	20	1	0.2289	0.23	<1.0
(3)				0.1066	0.11	<1.0
(1)				0.1045	0.10	<1.0
(4)				0.0942	0.09	<1.0
#43278	CCV2	20	3	10.8765	10.88	32.6

415.1

9060

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = (instrument reading vs.cal. Curve) x 0.040ml / Sample weight (g) x % solids
(If not detected, report < 1.0 mg/L)

Continued →

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / ~~9060~~

Analyst: SAM
Date: 3-17-09 / 1500
Reviewed by / Date: @ 3-18-09

Cont.

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
blank	CCB2	20	1	0.2494	0.25	<1.0
903062-002MS (1)	Mean = 5.6179 mg/L	20	1	5.7185	5.72	5.72
(2)	spike = 5.00 mg/L #41761	↓	↓	5.5173	5.52	5.52
903062-003 (1)	Mean = 7.0432 mg/L	20	1	7.1342	7.13	7.13
(2)				7.0631	7.06	7.06
(3)				6.9852	6.99	6.99
(4)				6.9902	6.99	6.99
903062-004 (1)	Mean = 5.2989 mg/L	20	1	5.3324	5.33	5.33
(2)				5.3395	5.34	5.34
(3)				5.2706	5.27	5.27
(4)				5.2531	5.25	5.25
#43278	CCV3	20	3	11.3560	11.36	34.1
blank	CCB3	20	1	0.3244	0.32	<1.0
903062-005 (1)	Mean = 9.5180 mg/L	20	1	9.5288	9.53	9.53
(2)				9.4940	9.49	9.49
(3)				9.5238	9.52	9.52
(4)				9.5253	9.53	9.53
903062-006 (1)	Mean =	20	1	3.2542	3.25	3.25
(2)				3.0678	3.07	3.07
(3)				3.0015	3.00	3.00
(4)				2.9737	2.97	2.97
#43278	CCV4	20	3	10.9792	10.98	32.9
blank	CCB4	↓	1	0.2495	0.25	<1.0

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml)}}{\text{Sample weight (g) x \% solids}}$

(If not detected, report < 1.0 mg/L)

Detailed Analysis Report Print Date/Time: 2009/03/17 18:38:43

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171115
Timestamp: 03/17/2009 11:21
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.2927	45.1707	6990115	11.319	12.317	124

Sample ID: ICB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171125
Timestamp: 03/17/2009 11:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2339	0.9356	212017	11.285	12.280	55

Sample ID: 902164-001
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171134
Timestamp: 03/17/2009 11:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.5130	6.0522	993635	11.150	12.145	92

Sample ID: 902164-002
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171142
Timestamp: 03/17/2009 11:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.2983	9.1931	1473444	11.142	12.139	97

Sample ID: 903057-002 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03171150
Cal. Curve: WATER LOW Timestamp: 03/17/2009 11:55
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5116	2.0463	381695	11.133	12.128	64

Sample ID: 903057-003 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03171158
Cal. Curve: WATER LOW Timestamp: 03/17/2009 12:03
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8906	3.5623	613273	11.186	12.181	70

Sample ID: 903057-004 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03171205
Cal. Curve: WATER LOW Timestamp: 03/17/2009 12:10
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.6896	2.7586	490502	11.198	12.194	66

Sample ID: 903057-005 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03171211
Cal. Curve: WATER LOW Timestamp: 03/17/2009 12:17
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.0430	4.1718	706387	11.164	12.161	73

Sample ID: 903057-005MD Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03171218
Cal. Curve: WATER LOW Timestamp: 03/17/2009 12:23

Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.0516	4.2065	711682	11.246	12.244	73

Sample ID: 903057-005MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171227
Timestamp: 03/17/2009 12:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.2303	24.9213	3876079	11.232	12.231	116

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171234
Timestamp: 03/17/2009 12:41
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.2978	45.1911	6993229	11.352	12.352	147

Sample ID: CCB1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171251
Timestamp: 03/17/2009 12:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2376	0.9504	214281	11.249	12.246	56

Sample ID: 903062-001
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171332
Timestamp: 03/17/2009 13:53
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

				Baseline	Baseline	Time
1	0.2781	1.1124	239034	11.221	12.219	57
2	0.1566	0.6265	164810	11.329	12.322	52
3	0.1384	0.5537	153685	11.225	12.218	51
4	0.1306	0.5225	148917	11.156	12.154	51

<<<Statistics>>> Mean: 0.1759 Std Dev: 0.0690 RSD: 39.21

Sample ID: 903062-001MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171355
Timestamp: 03/17/2009 14:07
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.1785	20.7140	3233378	11.024	12.021	94
2	5.2651	21.0603	3286276	11.083	12.081	94

<<<Statistics>>> Mean: 5.2218 Std Dev: 0.0612 RSD: 1.17

Sample ID: 903062-002
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171412
Timestamp: 03/17/2009 14:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2289	0.9154	208945	11.027	12.022	53
2	0.1066	0.4263	134230	10.993	11.983	50
3	0.1045	0.4179	132945	10.921	11.917	50
4	0.0942	0.3770	126692	10.889	11.886	50

<<<Statistics>>> Mean: 0.1336 Std Dev: 0.0638 RSD: 47.77

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171437
Timestamp: 03/17/2009 14:43
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

				Baseline	Baseline	Time
1	10.8765	43.5060	6735818	10.782	11.781	139

Sample ID: CCB2 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03171445
Cal. Curve: WATER LOW Timestamp: 03/17/2009 14:50
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2494	0.9976	221500	10.894	11.885	50

Sample ID: 903062-002MS Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03171455
Cal. Curve: WATER LOW Timestamp: 03/17/2009 15:07
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.7185	22.8741	3563344	10.724	11.720	103
2	5.5173	22.0690	3440366	10.896	11.896	98

<<<Statistics>>> Mean: 5.6179 Std Dev: 0.1423 RSD: 2.53

Sample ID: 903062-003 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03171508
Cal. Curve: WATER LOW Timestamp: 03/17/2009 15:35
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.1342	28.5367	4428375	10.676	11.676	147
2	7.0631	28.2524	4384946	10.704	11.703	136
3	6.9852	27.9408	4337345	10.601	11.601	139
4	6.9902	27.9607	4340379	10.538	11.537	139

<<<Statistics>>> Mean: 7.0432 Std Dev: 0.0704 RSD: 1.00

Sample ID: 903062-004 Mode: TOC

Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Filename: 03171549
Timestamp: 03/17/2009 16:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.3324	21.3297	3327425	10.436	11.435	118
2	5.3395	21.3581	3331775	10.632	11.631	111
3	5.2706	21.0824	3289645	10.640	11.637	106
4	5.2531	21.0124	3278953	10.577	11.575	108

<<<Statistics>>> Mean: 5.2989 Std Dev: 0.0435 RSD: 0.82

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171616
Timestamp: 03/17/2009 16:23
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.3560	45.4241	7028831	10.539	11.538	138

Sample ID: CCB3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171623
Timestamp: 03/17/2009 16:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3244	1.2976	267322	10.553	11.549	55

Sample ID: 903062-005
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03171654
Timestamp: 03/17/2009 17:21
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.5288	38.1154	5891611	10.167	11.165	183
2	9.4940	37.9761	5870338	10.310	11.308	130
3	9.5238	38.0951	5888513	10.292	11.291	134

4	9.5253	38.1010	5889415	10.265	11.264	132

<<<Statistics>>> Mean: 9.5180 Std Dev: 0.0161 RSD: 0.17

Sample ID: 903062-006
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03171722
Timestamp: 03/17/2009 17:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.2542	13.0169	2057571	10.434	11.433	86
2	3.0678	12.2710	1943622	10.221	11.220	89
3	3.0015	12.0058	1903117	10.365	11.362	82
4	2.9737	11.8946	1886129	10.244	11.243	85

<<<Statistics>>> Mean: 3.0743 Std Dev: 0.1263 RSD: 4.11

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03171819
Timestamp: 03/17/2009 18:25
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.9792	43.9167	6798563	10.752	11.751	118

Sample ID: CCB4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03171830
Timestamp: 03/17/2009 18:35
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2495	0.9979	221543	10.248	11.244	51

C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLP

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903062 STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.40	110	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.00	100	70 - 130%

Method Title: Sulfide, ~~Titrimetric~~, Sodium Thiosulfate
Method Reference: MCAWW 376.1 / 9031

Analyst: DAH
Date / Time: 3-17-09 / 1200
Reviewed by/Date: 3-18-09

Instrument/Apparatus: Titration

Calibration:

Standardization Iodine Solution

Iodine Solution N = ml of Na2S2O3 X 0.025N / 5 ml of Iodine

	ID#	Vol. Used / ml	Normality
Sodium Thiosulfate	#45177	5.35	0.025 N
Sodium Thiosulfate	↓	5.35	0.025 N
Iodine solution	#44753	5	N 1= .02675
Iodine solution	↓	5	N 2= .02675
			Avg N = .02675

QC Analysis

ICV Analysis

ICV ID: #44135
T.V.: 4.0 mg/L
Acceptance Range: 70-130%
ICV 4.40 mg/L CCV1 4.00 mg/L CCV2 4.00 mg/L
% Rec: ICV 110% CCV1 100% CCV2 100%

Duplicate Analysis Acceptance Range: 15%

Sample ID #1: S03062-001
Init. Sample Value #1: 42 mg/L
Dup. Sample Value #1: 42 mg/L
RPD #1: N/C

Sample ID #2: S03062-002
Init. Sample Value #2: 42 mg/L
Dup. Sample Value #2: 42 mg/L
RPD #2: N/C

LCS Analysis

LCS ID: N/A
T.V.:
F.V. #1:
% R #1:

LCS ID:
T.V.:
F.V. #2:
% R #2:

Reagent:
Starch Indicator ID: #44045
HCL ID: #45244

Comments:

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903062 STD Solution ID: #43278

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	33.9	106	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	32.6	102	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	34.1	107	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	32.9	103	90 - 110%

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C/MCAWW415.2
Lloyd Kahn / 9060

Analyst: DH
Date: 3-17-09
Reviewed by / Date: E3-18-09

Instrument/Apparatus: Pheonix 8000 - #G

Calibration:
A. 1000ppm Stock Standard Solution
B. 2000ppm Working Standard Solution
C. 10ppm Working Standard Solution

ID: #41761

Calibration Curve: Calibrated E3-18-09 3-25-09

Std. Conc. mg/L	ml Stock Solution	F.V. ml	Instrument Reading
0		100	99421
E3-18-09 1.0		100	696265
2.5		100	1601749
5.0		100	3175560
10		100	6124574
15		100	9349585
20		100	12272438
		100	

Corr. Coeff: (≥ 0.9950) 0.99987
y-Intercept: 89838
Slope: 1.528x10^5
System Blank: 69102

CCV3 34.1 mg/L
CCV3 107%

CCV4 32.6 mg/L
CCV4 103%

QC Analysis
QC ID: #43278
T.V.: 31.9 mg/L

Acceptance Range: 90-110%
Found Value:
ICV 33.9 mg/L
% Recovery:
ICV 106%

CCV1 33.9 mg/L CCV2 32.6 mg/L
CCV1 106% CCV2 102%

Matrix Spike Analysis:
Spike Acceptance Range: 15%
Sample ID #1 903057-005 Sample ID #2 903062-001 / 002
Sample Value #1 1.04 mg/L Sample Value #2: <1.0 mg/L / <1.0 mg/L
Spike Sample Value #1 6.23 mg/L #2: 5.23 mg/L / 5.62 mg/L
Spike Amount: 5.00 mg/L
% Recovery #1 104% #2:

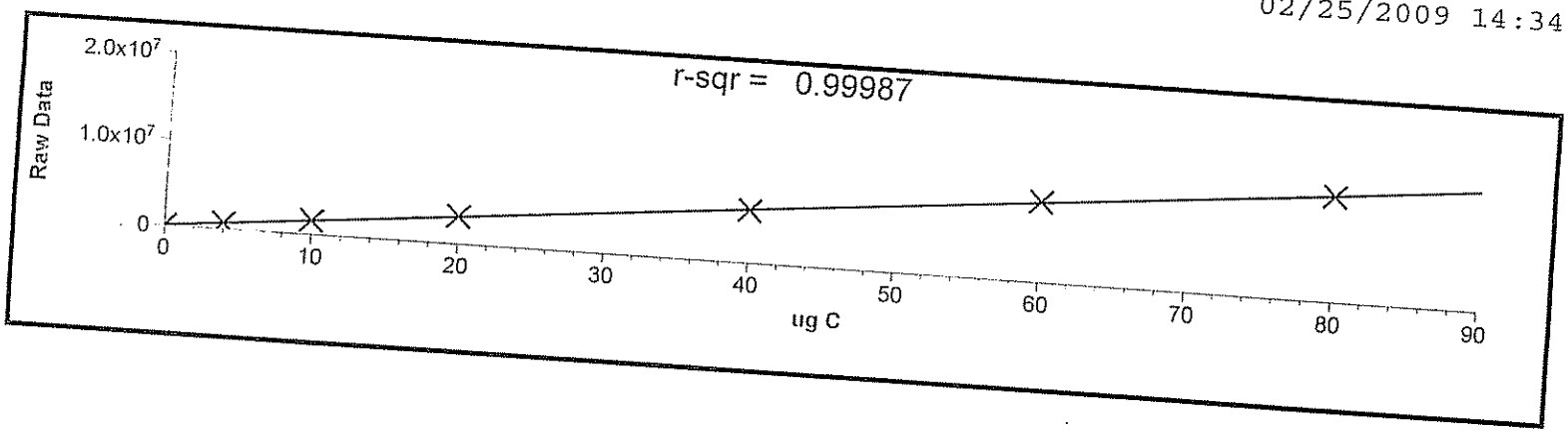
Duplicate Analysis
Dup Acceptance Range: 15%
Sample ID #1 / #2 903057-005 / *
Init. Samp. Value #1 / #2 1.04 mg/L /
Dup. Samp. Value #1 / #2 1.05 mg/L /
RPD #1 / #2 1% /

Comments: * 9060 samples run in quadruplicate

Calibration Report Print Date/Time: 2009/03/10 19:47:33

Cal. Curve ID:	WATER LOW
Created:	02/25/2009 14:35
Calibration Factor (m):	1.528e+05
Y Intercept (b):	89838
r-squared:	0.99987

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
Blank	99421	0.000	0.063		02/25/2009 13:25
1ppm	696265	4.000	3.970		02/25/2009 13:32
2.5ppm	1601749	10.000	9.897		02/25/2009 13:39
5ppm	3175560	20.000	20.200		02/25/2009 13:46
10ppm	6124574	40.000	39.505		02/25/2009 13:54
20ppm	12272438	80.000	79.750		02/25/2009 14:16
15ppm	9349585	60.000	60.616		02/25/2009 14:34



GPL Laboratories

Work Order Approval

Work Order #: 903062
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-11-2009
Fax Due Date: Mar-25-2009
HC Due Date: Mar-25-2009
EDD Due Date Mar-25-2009

APPROVED

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

Contact: Emma Brower
Phone: 7033765082
Fax: 7033765582
E-Mail:

Comments: Level 4 Data Package
SNEDD EDD
ALL METHODS MUST MEET QSM VERSION 3 GUIDELINES.
For TOC Analysis CH2M Hill requests quadruplicate results on form 1's, and average result in EDD.

Lab ID : 903062-001 Field ID : OUI-EB-031009 Date Collected : 10-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC	28D	(Use for QC)
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC	28D	(Use for QC) (On Hold/Spare)
Inorganic Anions by EPA 300	W	8	A-7D	COOL	7D	(Use for QC)
Sulfide by EPA 376.1	W	8	A-7D	SAPC	7D	(Use for QC)
Total Organic Carbon	W	8	A-7D	SCPH2	7D	(Use for QC)
VOAs by SW-846 8260	W	8	A1-3	HC	7D	(Use for QC)
VOAs by SW-846 8260	W	8	A1-3	HC	7D	(Use for QC) (On Hold/Spare)

Lab ID : 903062-002 Field ID : OUI-FB-031009 Date Collected : 10-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC	28D	(Use for QC)
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC	28D	(Use for QC) (On Hold/Spare)
Inorganic Anions by EPA 300	W	8	A-7D	COOL	7D	(Use for QC)
Sulfide by EPA 376.1	W	8	A-7D	SAPC	7D	(Use for QC)
Total Organic Carbon	W	8	A-7D	SCPH2	7D	(Use for QC)
VOAs by SW-846 8260	W	8	A1-3	HC	7D	(Use for QC)
VOAs by SW-846 8260	W	8	A1-3	HC	7D	(Use for QC) (On Hold/Spare)

Lab ID : 903062-003 Field ID : OUI-16GW16-0309 Date Collected : 10-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC	28D	
Inorganic Anions by EPA 300	W	8	A-7D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-7D	SAPC	7D	
Total Organic Carbon	W	8	A-7D	SCPH2	7D	
VOAs by SW-846 8260	W	8	A1-3	HC	7D	(On Hold/Spare)
VOAs by SW-846 8260	W	8	A1-3	HC	7D	

Approved By: _____ **Date and Time Approved :** _____

GPL Laboratories

Work Order Approval

Work Order #: 903062
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-11-2009
Fax Due Date: Mar-25-2009
HC Due Date: Mar-25-2009
EDD Due Date Mar-25-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903062-004 Field ID : OUI-MW51-0309 Date Collected : 10-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev	Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC		28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC		28D	
Inorganic Anions by EPA 300	W	8	A-7D	COOL		7D	
Sulfide by EPA 376.1	W	8	A-7D	SAPC		7D	
Total Organic Carbon	W	8	A-7D	SCPH2		7D	
VOAs by SW-846 8260	W	8	A1-3	HC		7D	(On Hold/Spare)
VOAs by SW-846 8260	W	8	A1-3	HC		7D	

Lab ID : 903062-005 Field ID : OUI-MW5D-0309 Date Collected : 10-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev	Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC		28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC		28D	
Inorganic Anions by EPA 300	W	8	A-7D	COOL		7D	
Sulfide by EPA 376.1	W	8	A-7D	SAPC		7D	
Total Organic Carbon	W	8	A-7D	SCPH2		7D	
VOAs by SW-846 8260	W	8	A1-3	HC		7D	(On Hold/Spare)
VOAs by SW-846 8260	W	8	A1-3	HC		7D	

Lab ID : 903062-006 Field ID : OUI-16GW01-0309 Date Collected : 10-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev	Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC		28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	SUB CON	HC		28D	
Inorganic Anions by EPA 300	W	8	A-7D	COOL		7D	
Sulfide by EPA 376.1	W	8	A-7D	SAPC		7D	
Total Organic Carbon	W	8	A-7D	SCPH2		7D	
VOAs by SW-846 8260	W	8	A1-3	HC		7D	(On Hold/Spare)
VOAs by SW-846 8260	W	8	A1-3	HC		7D	

Lab ID : 903062-007 Field ID : OUI-TB01-0309 Date Collected : 10-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev	Class	TAT	Comments
VOAs by SW-846 8260	W	3	A1-3	HC		7D	(On Hold/Spare)
VOAs by SW-846 8260	W	3	A1-3	HC		7D	

Approved By: _____ **Date and Time Approved :** _____

CT059

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Chloride hold time 28 days
~~Contract #/Billing Reference~~
Nitrate and Nitrite
Hold Time is 48 hours;

1 of 1 Pgs.

Project: 386383, FI, FQ, EQ
Client: NAVFAC Mid-Atlantic
Send Results To: Bill Hanna
Address: 5700 Cleveland St. Suite 101
Virginia Beach, Va 23462
Phone: (757) 671-6277

Turnaround Time	14 days	See Above	7	14	28
# of Containers	3	1	1	3	1
Container Type	VOAs	8oz Plastic	8oz Plastic	VOAs	8oz Amber
Preservative Used	HCL	None	NAOH	HCL	H2SO4

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	SW846 8260B (VOCs)	EPA 300.0 (Nitrate Nitrite Chloride)	EPA 376.1 (Sulfides)	RSK-175 (Methane Ethane Ethene)	SW846 9060 (TOC)	Lab Cooler No.	CLIENT COMMENTS
~~OUI-EB~~-031009	3/10/09	15:40	Water	DM	3	1	1	3	1		QA/QC
OUI-FB-031009	3/10/09	16:00	Water	DM	3	1	1	3	1		QA/QC
OUI-16GW16-0309	3/10/09	15:30	Water	PVT	3	1	1	3	1		Hold Time FOR VOAs is 7days due to high Turbidity
OUI-MW51-0309	3/10/09	13:15	Water	PVT	3	1	1	3	1		
OUI-MW50-0309	3/10/09	12:05	Water	DM	3	1	1	3	1		
OUI-16GW01-0309	3/10/09	16:40	Water	PVT	3	1	1	3	1		
OUI-TB01-0309	3/10/09	—	Water	KB	3	—					

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Kurt Bradtmann	03/10/09 00:55			Walter Bell	3/11/09 12:40
Relinquished By:	Date/Time	Received By:	Date/Time / Shipper:	Airbill No.:	
Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp: 3°	

G.P. W.O. 903062

Corrections to COCs

TO: Garth Herdrich

COPIES: File
EDD
Laboratory Package Multiple SDGs

FROM: Kyle Block
EIS
CH2M HILL

DATE: March 24, 2009

This memo is to document corrections made to entries on the Chains of Custody (COC) and Lab Logins for Cherry Point CTO-059.

The SDG 903062 had the sample below incorrectly labeled on the Lab Login. Please make the appropriate change changes to all deliverables.

Change Sample ID to this:	Incorrectly labeled ID:	Date Sample	Time Sample
OU1-MW50-0309	OU1-MW5D-0309	3/10/2009	12:05

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Additionally the below samples did not have sample times correlating to the sample on the COCs. Please add the **times** and make the appropriate changes to the COC and make appropriate changes to all deliverables.

Sample ID	Date Sample	Time Sample	SDG
OU1-TB01-0309	3/10/2009	6:50	903062
OU1-TB02-0309	3/11/2009	18:00	903069
OU1-TB03-0309	3/11/2009	18:02	903069
OU1-TB04-0309	3/11/2009	18:04	903069
OU1-TB05-0309	3/12/2009	17:15	903071
OU1-TB06-0309	3/13/2009	17:10	903093
OU1-TB07-0309	3/13/2009	17:12	903093
OU1-TB08-0309	3/16/2009	17:55	903098
OU1-TB09-0309	3/16/2009	17:57	903098
OU1-TB10-0309	3/16/2009	17:59	903098
OU1-TB11-0309	3/17/2009	17:55	903125
OU1-TB12-0309	3/17/2009	17:57	903125
OU1-TB13-0309	3/17/2009	17:59	903125
OU1-TB14-0309	3/18/2009	17:55	903124
OU1-TB15-0309	3/18/2009	17:57	903124
OU1-MW53P-0309	3/15/2009	15:20	903098
OU1-52GW46P-0309	3/16/2009	11:02	903098

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FedEx Express — US Airbill

8682 0257 0912

0200

FedEx Retrieval Copy

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From

Date 02/10/09 Sender's FedEx Account Number

Sender's Name Kurt Brodtmann Phone 304-723-1648

Company CH2M Hill, Inc.
Hampton Inn of Havelock

Address 105 Tourist Center Drive RM 204
Dept/Floor/Suite/Room

City Havelock State NC ZIP 28532

2 Your Internal Billing Reference

3 To

Recipient's Name Allyi Sample Receiving Phone 321 674-5310

Company GPL Laboratories

Recipient's Address 7210 A Corporate Court
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept/Floor/Suite/Room

Address
To request a package be held at a specific FedEx location, print FedEx address here

City Frederick State MD ZIP 21703 ~~21703~~

8682 0257 0912

4a Express Package Service — *Packages up to 150 lbs.*

1 [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected

5 [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available

6 [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available

3 [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected

20 [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available

FedEx Envelope rate not available. Minimum charge: One-pound rate

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

7 [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected

8 [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected

83 [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available

* Call for Confirmation.

** To most locations.

5 Packaging

6 [ ] FedEx Envelope* 2 [ ] FedEx Pak* — Includes FedEx Sm or Lg Pak, FedEx Large Pak, and FedEx Sturdy Pak 3 [ ] FedEx Box 4 [ ] FedEx Tube 1 [ ] Other

* Declared value limit $500

6 Special Handling — Include FedEx address in Section 3.

3 [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight

1 [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight

31 [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

[ ] No 4 [ ] Yes — As per attached Shipper's Declaration

[ ] Yes — Shipper's Declaration not required

6 [ ] Dry Ice — Dry Ice, 9, UN 1845 — x kg

Dangerous goods cannot be shipped in FedEx packaging.

[ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip Acct. No.

1 [ ] Sender — Acct No in Section 1 will be billed

2 [ ] Recipient 3 [X] Third Party 4 [ ] Credit Card 5 [ ] Cash/Check

Total Packages Total Weight

*Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth

8 Residential Delivery Signature Options By requesting a signature, check Direct or Indirect.

[ ] No Signature Required — Package may be left without obtaining a signature for delivery

10 [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

34 [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

Rev. Date 10/06 Part #153281 ©1994–2006 FedEx PRINTED IN U.S.A. SRY

fedex.com 1.800.GoFedEx 1.800.463.3339

GPL Laboratories, LLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903062
Client Name: CH2M Hill
Date Received: 3-11-09
Time Received: 12:45
Received By: Walt

Carrier Name: Fedex
Prepared (Logged In) By: PM, 3-11-09
Project:
Site:
VOA Holding Blank ID No:

	YES	NO
Airbill/Manifest Present? No: 8687 0257 0912	✓	
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?		
Condition: Good ✓ Broken		
Chain of Custody Present?	✓	
Chain of Custody Agrees with Sample Labels?	✓	
Chain of Custody Signed?	✓	
Packing Present in Shipping Container?	✓	
Type of Packing bubble wrap		
Custody Seals on Sample Bottles?	✓	
Condition: Good ✓ Broken		
Total Number of Sample Bottles 51	✓	
Total Number of Samples 7	✓	
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks Received? No. of Sets 1	✓	
VOA Vials Have Zero Headspace?		
Preservatives Added to Sample?	✓	
pH Check Required?	✓	
Performed By: PM		
Ice Present in Shipping Container?	✓	

Container #	Temperature
1	3°

Project Manager Contacted?
Name: Garth
Date Contacted: 3-11-09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: BSK-175 has only 2 vials instead of 3 which is on the chain

Checklist Completed By: Pat
Date: 3-11-09

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903062

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Seven water samples were received on 03/11/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soi are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Seven water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
Samples OUI-MW50-0309 and OUI-TB01-0309 exhibited one high surrogate recovery outside of the QC limits. Since no target analytes were found in the samples, no further corrective action was taken. All other surrogate recoveries and internal standard responses were within the QC limits.
A laboratory control sample and laboratory control sample duplicate were analyzed along with the sample batch. For BKS/BKSD108777, all of the RPDs were within the RPD QC limits, and six spike recoveries, out of one hundred forty, were outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrate compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

3/25/09

General Chemistry

Six water samples were analyzed for Sulfide by EPA method 376.1. A duplicate analysis was performed on samples OU1-EB-031009 and OU1-FB-031009 at the client's request. All QC criteria were met.

Six water samples were analyzed for Total Organic Carbon by SW846 method 9060. All samples were analyzed in quadruplicat Matrix spike analyses were performed in duplicate on samples OU1-EB-031009 and OU1-FB-031009 at the client's request. All QC criteria were met.

Other Analysis

Five water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Two samples:OUI-MW51-0309 and OUI-MW5D-0309 were diluted to fit the results within the instrument calibration.

The matrix spike and matrix spike duplicate analyses were performed on sample OUI-16GW01-0309. All of the RPDs were with

Work Order: 903062 Method: 8260

Volatiles Package Review Checklist

Case Narrative

	Analyst	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.	✓	
2. All nonconformances and corrective action must be mentioned and explained.	✓	
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	
4. If reanalyses were performed, one analysis must be designated to report results.	✓	

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	
2. Double-check spike amounts for the LCS and MS/MSD.	✓	
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	
4. A form 5 for the initial calibration must be provided.	✓	

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	
$\frac{\text{Raw Conc. x (5/mass)}}{1 - (\%\text{moisture}/100)}$ *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	

Work Order: 9030062 Method: 8260

3. Column name & ID are properly labeled.	✓	
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{\text{10mL of MeOH}}{\text{grams of soil}} \times \frac{\text{5mL Purge Volume}}{\text{mL of Extract Spiked}}$	✓	
5. All analyte recoveries over the calibration limit are flagged "E".	✓	
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	✓	
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	✓	

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	
2. All continuing calibrations used to analyze the samples are included.	✓	
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	✓	
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	
4. Injection Logbook copies must be provided for all analysis sequences.	✓	
5. If TCLP, a copy of the Extraction Log must be provided.	✓	
6. If Encore samples, a copy of the Sample Weight Log must be provided.	✓	

Analyst Signature: _____ Date: 3/25/09

Reviewer Signature: _____ Date: _____

Case Narrative

CH2M Hill Inc

Work Order: 903062

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Seven water samples were received on 03/11/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Seven water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
Samples OUI-MW50-0309 and OUI-TB01-0309 exhibited one high surrogate recovery outside of the QC limits. Since no target analytes were found in the samples, no further corrective action was taken. All other surrogate recoveries and internal standard responses were within the QC limits.
A laboratory control sample and laboratory control sample duplicate were analyzed along with the sample batch. For BKS/BKSD108777, all of the RPDs were within the RPD QC limits, and six spike recoveries, out of one hundred forty, were outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Six water samples were analyzed for Chloride, Nitrate as Nitrogen, and Nitrite as Nitrogen by EPA method 300.0.

Matrix spike and duplicate analyses were performed on sample GW20-04BR SAIC14. Percent recoveries for Nitrite as Nitrogen and Chloride were outside the QC limits. Since the laboratory control sample recoveries for these analytes were within the QC limits, no corrective action was taken. All other QC criteria were met.

A laboratory control sample was analyzed along with the batch. All QC criteria were met.

JcsA 3/27/09

General Chemistry

Six water samples were analyzed for Sulfide by EPA method 376.1. A duplicate analysis was performed on samples OU1-EB-031009 and OU1-FB-031009 at the client's request. All QC criteria were met.

Six water samples were analyzed for Total Organic Carbon by SW846 method 9060. All samples were analyzed in quadruplicate. Matrix spike analyses were performed in duplicate on samples OU1-EB-031009 and OU1-FB-031009 at the client's request. All QC criteria were met.

GPL LABORATORIES, LLLP

IC CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903062

PARAMETER: E300

		CRITERIA MET YES	NO	NA
EXTRACTION HOLDING TIMES				✓
ANALYSIS HOLDING TIMES		✓		
CALIBRATION CURVE		✓		
IF NO,				
INITIAL CALIBRATION		✓		
IF NO,				
CONTINUING CALIBRATION		✓		
RETENTION TIME		✓		
METHOD BLANK		✓		
MS/MSD RECOVERIES			✓*	
IF NO	*See narrative			
DUP RECOVERIES		✓		
LCS RECOVERIES		✓		
CALCULATION CHECK		✓		
Is the peak integration in all initial and continuing calibrations as well as each chromatogram, conducted correctly, and in accordance with good laboratory practices and the GPL policies, SOPs and QA manual? IF" NO", the affected chromatograms must be immediately reviewed and re-integrated by the Lab Director and the QA manager,prior to their final release.		✓		
Has the manual integration been signed off on (initialled and dated)?		✓		
WAS IMPORTATION INTO LIMS CORRECT?		✓		JSN Initials

ADDITIONAL COMMENTS _____

SIGNATURE _____ DATE 3/27/09

REVIEWED BY _____ DATE _____

Case Narrative

CH2M Hill Inc

Work Order: 903062

Case Narrative Comments have not been Reviewed

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Sample Receipt

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Sample Analysis

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General Chemistry

Six water samples were analyzed for Sulfide by EPA method 376.1. A duplicate analysis was performed on samples OU1-EB-031009 and OU1-FB-031009 at the client's request. All QC criteria were met.

Six water samples were analyzed for Total Organic Carbon by SW846 method 9060. All samples were analyzed in quadruplicate. Matrix spike analyses were performed in duplicate on samples OU1-EB-031009 and OU1-FB-031009 at the client's request. All QC criteria were met.

GPL LABORATORIES, LLLP

WET CHEM CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903062

PARAMETER: E376.1 SW9060

	CRITERIA MET YES	NO	NA
HOLDING TIMES	✓		
METHOD BLANK	✓		
CALIBRATION CURVE	✓		
IF NO,			
INITIAL CALIBRATION	✓		
IF NO,			
CONTINUING CALIBRATION	✓		
IF NO,			
MATRIX SPIKE RECOVERIES	✓		
COMMENTS			
DUP RECOVERIES	✓		
LCS RECOVERIES			✓
CALCULATION CHECK	✓		
ADDITIONAL COMMENTS			

SIGNATURE _____ DATE 3-19-09

REVIEWED BY _____ DATE _____

Case Narrative

CH2M Hill Inc

Work Order: 903062

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

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Sample Analysis

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General Chemistry

Six water samples were analyzed for Sulfide by EPA method 376.1. A duplicate analysis was performed on samples OU1-EB-031009 and OU1-FB-031009 at the client's request. All QC criteria were met.

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Other Analysis

Five water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Two samples:OUI-MW51-0309 and OUI-MW5D-0309 were diluted to fit the results within the instrument calibration.

The matrix spike and matrix spike duplicate analyses were performed on sample OUI-16GW01-0309. All of the RPDs were with the RPD QC limits, and all spike recoveries were within the QC limits.

Work Order: 903062 Method: RSK-175

Volatiles Package Review Checklist

Case Narrative

	Analyst	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.	✓	✓
2. All nonconformances and corrective action must be mentioned and explained.	✓	✓
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	✓
4. If reanalyses were performed, one analysis must be designated to report results.	✓	✓

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	✓
2. Double-check spike amounts for the LCS and MS/MSD.	✓	✓
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	✓
4. A form 5 for the initial calibration must be provided.	✓	✓

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	✓
$\frac{\text{Raw Conc. x (5/mass)}}{1 - (\%\text{moisture}/100)}$ *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	✓

Work Order: 903062 Method: RSK 175

3. Column name & ID are properly labeled.	–	✓
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{\text{10mL of MeOH}}{\text{grams of soil}} \times \frac{\text{5mL Purge Volume}}{\text{mL of Extract Spiked}}$	–	✓
5. All analyte recoveries over the calibration limit are flagged "E".	–	✓
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	–	✓
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	–	✓

Calibration Data

1. All initial calibrations used to analyze the samples are included.	–	✓
2. All continuing calibrations used to analyze the samples are included.	–	✓
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	–	✓

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	–	✓
2. Any recoveries found in the BLK are explained in the Case Narrative.	–	✓
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	–	✓
4. Injection Logbook copies must be provided for all analysis sequences.	–	✓
5. If TCLP, a copy of the Extraction Log must be provided.	–	✓
6. If Encore samples, a copy of the Sample Weight Log must be provided.	–	✓

Analyst Signature: Tim Gehreys Date: 3/25/09

Reviewer Signature: N Date: 3/25/09

Analytical Report For 903069

for

CH2M Hill Inc

Project Manager: Emma Brower

Project Name: CTO-059 386383.FI.FQ.FQ

GPL

Laboratories

GPL Laboratories, LLLP certifies that the test results meet all requirements of the NELAC Standards unless otherwise noted.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Twelve water samples were received on 03/12/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Twelve water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.

Several samples were diluted to fit the results within the instrument calibration
The surrogate recoveries and internal standard responses were within the QC limits.

Two matrix spikes and two matrix spike duplicates were analyzed on samples OU1-16GW40-0309DL and OU1-16GW02-0309. For sample OU1-16GW40-0309DL, all of the RPDs were within the RPD QC limits, and five spike recoveries out of one hundred forty, were outside of the QC limits. For sample OU1-16GW02-0309, all of the RPDs were within the RPD QC limits, and nineteen spike recoveries out of one hundred forty, were outside of the QC limits.

Four laboratory control samples and two laboratory control sample duplicates were analyzed along with the sample batches. For BKS/BKSD108811, the RPD of one compound, out of seventy, was outside of the RPD QC limits, and three spike recoveries, out of one hundred forty, were outside of the QC limits.

For BKS/BKSD108821, all of the RPDs were within the RPD QC limits, and six spike recoveries, out of one hundred forty, were outside of the QC limits. BKS108826 had six spike recoveries outside of the QC limits. BKS108829 had three spike recoveries outside of the QC limits.

Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Nine water samples were analyzed for Chloride, Nitrate-Nitrogen, and Nitrite-Nitrogen by EPA method 300.0.

Duplicate and matrix spike analyses were performed on samples OU1-16GW40-0309 and OU1-16GW02-0309. Percent recovery of the Nitrite MS of sample OU1-16GW40-0309 was slightly above the QC limits due to an interferring peak in the matrix. Percent recovery of Chloride and Nitrate were below the QC limits in the MS of sample OU1-16GW02-0309, and Nitrite recovery was above the QC limit due to matrix interference. The Nitrate MS was re-analyzed with acceptable recovery, but the Nitrite recovery was still above the QC limit due to the interferring peak. The Chloride MS was repeated at 10mg/L, and recovery was still below the QC limits.

A laboratory control sample was analyzed along with each batch. Recovery of Nitrite in the low LCS on the 3/11/09 run was

slightly below the QC limits. Because all ICV and CCV Nitrite recoveries were within QC limits, and no Nitrite was detected above the MDL in any associated sample, no re-injections were required.

All other QC criteria were met.

General Chemistry

Nine water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on samples OU1-16GW02-0309 and OU1-16GW40-0309. All QC criteria were met.

Nine water samples were analyzed for Total Organic Carbon using EPA method 9060. All samples were analyzed in quadruplicate. A matrix spike analysis was performed in duplicate on samples OU1-16GW02-0309 and OU1-16GW02-0309. All QC criteria were met.

Other Analysis

Nine water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were performed on samples OU1-16GW40-0309 and OU1-16GW02-0309. The MS/MSD for sample OU1-16GW40-0309 had two spike recoveries and one %RPD outside of the QC limits. The MS/MSD for sample OU1-16GW02-0309 had one spike recovery outside of the QC limits.

Reviewed By,

Project Manager

Approved By,

Laboratory Director

GPL Laboratories, LLLP

Sample Summary Report

CH2M Hill Inc

Work Order: 903069

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
OU1-16GW02-0309	903069-007-045-1/9	SW8260LL	WATER	03/11/2009	03/12/2009
	903069-007-063-1/6	GPL-RSK-175			
	903069-007-099-1/3	E300			
	903069-007-105-1/3	E376.1			
	903069-007-111-1/3	SW9060			
OU1-16GW02-0309DL	903069-007-064-2/6DL	GPL-RSK-175	WATER	03/11/2009	03/12/2009
OU1-16GW03-0309	903069-004-019-1/3	SW8260LL	WATER	03/11/2009	03/12/2009
	903069-004-033-1/2	GPL-RSK-175			
	903069-004-076-1/1	E300			
	903069-004-083-1/1	E376.1			
	903069-004-090-1/1	SW9060			
OU1-16GW03-0309DL	903069-004-034-2/2DL	GPL-RSK-175	WATER	03/11/2009	03/12/2009
OU1-16GW04-0309	903069-006-025-1/3	SW8260LL	WATER	03/11/2009	03/12/2009
	903069-006-037-1/2	GPL-RSK-175			
	903069-006-078-1/1	E300			
	903069-006-085-1/1	E376.1			
	903069-006-092-1/1	SW9060			
OU1-16GW04-0309DL	903069-006-038-2/2DL	GPL-RSK-175	WATER	03/11/2009	03/12/2009
	903069-006-038-2/2DL	SW8260LL			
OU1-16GW09-0309	903069-001-028-1/3	SW8260LL	WATER	03/11/2009	03/12/2009
	903069-001-043-1/2	GPL-RSK-175			
	903069-001-081-1/1	E300			
	903069-001-088-1/1	E376.1			
	903069-001-095-1/1	SW9060			
OU1-16GW40-0309	903069-002-054-1/9	SW8260LL	WATER	03/11/2009	03/12/2009
	903069-002-069-1/6	GPL-RSK-175			
	903069-002-096-1/3	E300			
	903069-002-102-1/3	E376.1			
	903069-002-108-1/3	SW9060			
OU1-16GW40-0309DL	903069-002-070-2/6DL	GPL-RSK-175	WATER	03/11/2009	03/12/2009
	903069-002-070-2/6DL	SW8260LL			
OU1-16GW41-0309	903069-003-016-1/3	SW8260LL	WATER	03/11/2009	03/12/2009

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
	903069-003-031-1/2	GPL-RSK-175			
	903069-003-075-1/1	E300			
	903069-003-082-1/1	E376.1			
	903069-003-089-1/1	SW9060			
OU1-16GW41-0309DL	903069-003-032-2/2DL	GPL-RSK-175	WATER	03/11/2009	03/12/2009
OU1-16GW42-0309	903069-005-022-1/3	SW8260LL	WATER	03/11/2009	03/12/2009
	903069-005-035-1/2	GPL-RSK-175			
	903069-005-077-1/1	E300			
	903069-005-084-1/1	E376.1			
	903069-005-091-1/1	SW9060			
OU1-16GW42-0309DL	903069-005-036-2/2DL	GPL-RSK-175	WATER	03/11/2009	03/12/2009
	903069-005-036-2/2DL	SW8260LL			
OU1-MW12-0309	903069-009-004-1/3	SW8260LL	WATER	03/11/2009	03/12/2009
	903069-009-041-1/2	GPL-RSK-175			
	903069-009-080-1/1	E300			
	903069-009-087-1/1	E376.1			
	903069-009-094-1/1	SW9060			
OU1-MW12-0309DL	903069-009-042-2/2DL	GPL-RSK-175	WATER	03/11/2009	03/12/2009
OU1-MW48-0309	903069-008-001-1/3	SW8260LL	WATER	03/11/2009	03/12/2009
	903069-008-039-1/2	GPL-RSK-175			
	903069-008-079-1/1	E300			
	903069-008-086-1/1	E376.1			
	903069-008-093-1/1	SW9060			
OU1-MW48-0309DL	903069-008-040-2/2DL	GPL-RSK-175	WATER	03/11/2009	03/12/2009
OUI-TB02-0309	903069-010-007-1/3	SW8260LL	WATER	03/11/2009	03/12/2009
OUI-TB03-0309	903069-011-010-1/3	SW8260LL	WATER	03/11/2009	03/12/2009
OUI-TB04-0309	903069-012-013-1/3	SW8260LL	WATER	03/11/2009	03/12/2009

QC SUMMARY PACKAGE

GPL Laboratories

VOLATILE ORGANICS

GPL Laboratories

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108811
Sample Volume :	5	Lab File ID :	A62440.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	52	
71-55-6	1,1,1-Trichloroethane	58	
79-34-5	1,1,2,2-Tetrachloroethane	47	
79-00-5	1,1,2-Trichloroethane	60	
75-34-3	1,1-Dichloroethane	58	
75-35-4	1,1-Dichloroethene	54	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	55	
96-18-4	1,2,3-Trichloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	53	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	50	
108-67-8	1,3,5-trimethylbenzene	52	
541-73-1	1,3-Dichlorobenzene	56	
142-28-9	1,3-Dichloropropane	50	
106-46-7	1,4-Dichlorobenzene	58	
594-20-7	2,2-Dichloropropane	56	
78-93-3	2-Butanone	16	
95-49-8	2-Chlorotoluene	60	
591-78-6	2-Hexanone	77	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	69	
67-64-1	Acetone	120	
71-43-2	Benzene	47	
108-86-1	Bromobenzene	58	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108811
Sample Volume :	5	Lab File ID :	A62440.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	60	
75-27-4	Bromodichloromethane	49	
75-25-2	Bromoform	48	
74-83-9	Bromomethane	60	
75-15-0	Carbon Disulfide	51	
56-23-5	Carbon Tetrachloride	58	
108-90-7	Chlorobenzene	53	
75-00-3	Chloroethane	47	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	67	
110-82-7	Cyclohexane	52	
124-48-1	Dibromochloromethane	54	
74-95-3	Dibromomethane	52	
75-71-8	Dichlorodifluoromethane	55	
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	60	
87-68-3	Hexachlorobutadiene	51	
98-82-8	Isopropylbenzene	53	
79-20-9	Methyl Acetate	59	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	51	
91-20-3	Naphthalene	50	
135-98-8	Sec-Butylbenzene	53	
100-42-5	Styrene	52	
127-18-4	Tetrachloroethylene	59	
108-88-3	Toluene	54	
79-01-6	Trichloroethene	46	
75-69-4	Trichlorofluoromethane	64	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108811
Sample Volume :	5	Lab File ID :	A62440.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	43	
75-01-4	Vinyl Chloride	48	
156-59-2	cis-1,2-Dichloroethene	53	
10061-01-5	cis-1,3-Dichloropropene	43	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	52	
103-65-1	n-Propylbenzene	52	
95-47-6	o-Xylene	52	
98-06-6	tert-Butylbenzene	54	
1634-04-4	tert-butyl methyl ether	56	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	58	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108821
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	57	
71-55-6	1,1,1-Trichloroethane	57	
79-34-5	1,1,2,2-Tetrachloroethane	50	
79-00-5	1,1,2-Trichloroethane	61	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	50	
87-61-6	1,2,3-Trichlorobenzene	61	
96-18-4	1,2,3-Trichloropropane	50	
120-82-1	1,2,4-Trichlorobenzene	60	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	50	
95-50-1	1,2-Dichlorobenzene	59	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	50	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	60	
142-28-9	1,3-Dichloropropane	50	
106-46-7	1,4-Dichlorobenzene	60	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	96	
95-49-8	2-Chlorotoluene	56	
591-78-6	2-Hexanone	91	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	92	
67-64-1	Acetone	92	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108821
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	62	
75-27-4	Bromodichloromethane	59	
75-25-2	Bromoform	58	
74-83-9	Bromomethane	120	
75-15-0	Carbon Disulfide	46	
56-23-5	Carbon Tetrachloride	62	
108-90-7	Chlorobenzene	52	
75-00-3	Chloroethane	86	
67-66-3	Chloroform	53	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	50	
124-48-1	Dibromochloromethane	53	
74-95-3	Dibromomethane	51	
75-71-8	Dichlorodifluoromethane	57	
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	64	
87-68-3	Hexachlorobutadiene	65	
98-82-8	Isopropylbenzene	53	
79-20-9	Methyl Acetate	44	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	48	
91-20-3	Naphthalene	55	
135-98-8	Sec-Butylbenzene	55	
100-42-5	Styrene	51	
127-18-4	Tetrachloroethylene	61	
108-88-3	Toluene	63	
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	64	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108821
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	43	
75-01-4	Vinyl Chloride	44	
156-59-2	cis-1,2-Dichloroethene	48	
10061-01-5	cis-1,3-Dichloropropene	61	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	53	
103-65-1	n-Propylbenzene	52	
95-47-6	o-Xylene	51	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	59	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108826
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	59	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	50	
79-00-5	1,1,2-Trichloroethane	63	
75-34-3	1,1-Dichloroethane	58	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	52	
87-61-6	1,2,3-Trichlorobenzene	60	
96-18-4	1,2,3-Trichloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	59	
95-63-6	1,2,4-Trimethylbenzene	56	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
95-50-1	1,2-Dichlorobenzene	60	
107-06-2	1,2-Dichloroethane	53	
78-87-5	1,2-Dichloropropane	52	
108-67-8	1,3,5-trimethylbenzene	55	
541-73-1	1,3-Dichlorobenzene	62	
142-28-9	1,3-Dichloropropane	51	
106-46-7	1,4-Dichlorobenzene	62	
594-20-7	2,2-Dichloropropane	56	
78-93-3	2-Butanone	90	
95-49-8	2-Chlorotoluene	58	
591-78-6	2-Hexanone	87	
106-43-4	4-Chlorotoluene	59	
99-87-6	4-Isopropyltoluene	63	
108-10-1	4-Methyl-2-Pentanone	90	
67-64-1	Acetone	87	
71-43-2	Benzene	50	
108-86-1	Bromobenzene	62	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108826
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	67	
75-27-4	Bromodichloromethane	62	
75-25-2	Bromoform	57	
74-83-9	Bromomethane	120	
75-15-0	Carbon Disulfide	45	
56-23-5	Carbon Tetrachloride	63	
108-90-7	Chlorobenzene	55	
75-00-3	Chloroethane	69	
67-66-3	Chloroform	58	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	45	
124-48-1	Dibromochloromethane	55	
74-95-3	Dibromomethane	52	
75-71-8	Dichlorodifluoromethane	41	
100-41-4	Ethylbenzene	52	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	56	
87-68-3	Hexachlorobutadiene	63	
98-82-8	Isopropylbenzene	55	
79-20-9	Methyl Acetate	42	
108-87-2	Methylcyclohexane	48	
75-09-2	Methylene Chloride	50	
91-20-3	Naphthalene	54	
135-98-8	Sec-Butylbenzene	57	
100-42-5	Styrene	53	
127-18-4	Tetrachloroethylene	61	
108-88-3	Toluene	64	
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108826
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	39	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	51	
10061-01-5	cis-1,3-Dichloropropene	62	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	55	
103-65-1	n-Propylbenzene	53	
95-47-6	o-Xylene	53	
98-06-6	tert-Butylbenzene	59	
1634-04-4	tert-butyl methyl ether	59	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108829
Sample Volume :	5	Lab File ID :	A62507.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	55	
71-55-6	1,1,1-Trichloroethane	56	
79-34-5	1,1,2,2-Tetrachloroethane	47	
79-00-5	1,1,2-Trichloroethane	54	
75-34-3	1,1-Dichloroethane	55	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	48	
87-61-6	1,2,3-Trichlorobenzene	61	
96-18-4	1,2,3-Trichloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	51	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
95-50-1	1,2-Dichlorobenzene	56	
107-06-2	1,2-Dichloroethane	49	
78-87-5	1,2-Dichloropropane	46	
108-67-8	1,3,5-trimethylbenzene	50	
541-73-1	1,3-Dichlorobenzene	58	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	57	
594-20-7	2,2-Dichloropropane	50	
78-93-3	2-Butanone	87	
95-49-8	2-Chlorotoluene	54	
591-78-6	2-Hexanone	85	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	86	
67-64-1	Acetone	82	
71-43-2	Benzene	46	
108-86-1	Bromobenzene	58	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108829
Sample Volume :	5	Lab File ID :	A62507.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	62	
75-27-4	Bromodichloromethane	46	
75-25-2	Bromoform	54	
74-83-9	Bromomethane	130	
75-15-0	Carbon Disulfide	46	
56-23-5	Carbon Tetrachloride	61	
108-90-7	Chlorobenzene	50	
75-00-3	Chloroethane	50	
67-66-3	Chloroform	52	
74-87-3	Chloromethane	47	
110-82-7	Cyclohexane	44	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	48	
75-71-8	Dichlorodifluoromethane	44	
100-41-4	Ethylbenzene	47	
106-93-4	Ethylene DiBromide	46	
76-13-1	Freon 113	57	
87-68-3	Hexachlorobutadiene	59	
98-82-8	Isopropylbenzene	50	
79-20-9	Methyl Acetate	41	
108-87-2	Methylcyclohexane	50	
75-09-2	Methylene Chloride	47	
91-20-3	Naphthalene	55	
135-98-8	Sec-Butylbenzene	52	
100-42-5	Styrene	49	
127-18-4	Tetrachloroethylene	56	
108-88-3	Toluene	55	
79-01-6	Trichloroethene	47	
75-69-4	Trichlorofluoromethane	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108829
Sample Volume :	5	Lab File ID :	A62507.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	150	
75-01-4	Vinyl Chloride	44	
156-59-2	cis-1,2-Dichloroethene	50	
10061-01-5	cis-1,3-Dichloropropene	53	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	48	
103-65-1	n-Propylbenzene	48	
95-47-6	o-Xylene	47	
98-06-6	tert-Butylbenzene	54	
1634-04-4	tert-butyl methyl ether	56	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	53	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108811
Sample Volume :	5	Lab File ID :	A62446.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	52	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	50	
79-00-5	1,1,2-Trichloroethane	49	
75-34-3	1,1-Dichloroethane	60	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	50	
87-61-6	1,2,3-Trichlorobenzene	59	
96-18-4	1,2,3-Trichloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	59	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	49	
95-50-1	1,2-Dichlorobenzene	60	
107-06-2	1,2-Dichloroethane	52	
78-87-5	1,2-Dichloropropane	49	
108-67-8	1,3,5-trimethylbenzene	56	
541-73-1	1,3-Dichlorobenzene	61	
142-28-9	1,3-Dichloropropane	42	
106-46-7	1,4-Dichlorobenzene	62	
594-20-7	2,2-Dichloropropane	55	
78-93-3	2-Butanone	100	
95-49-8	2-Chlorotoluene	60	
591-78-6	2-Hexanone	81	
106-43-4	4-Chlorotoluene	58	
99-87-6	4-Isopropyltoluene	60	
108-10-1	4-Methyl-2-Pentanone	71	
67-64-1	Acetone	110	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108811
Sample Volume :	5	Lab File ID :	A62446.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	59	
75-27-4	Bromodichloromethane	50	
75-25-2	Bromoform	47	
74-83-9	Bromomethane	66	
75-15-0	Carbon Disulfide	52	
56-23-5	Carbon Tetrachloride	58	
108-90-7	Chlorobenzene	55	
75-00-3	Chloroethane	51	
67-66-3	Chloroform	56	
74-87-3	Chloromethane	61	
110-82-7	Cyclohexane	55	
124-48-1	Dibromochloromethane	54	
74-95-3	Dibromomethane	52	
75-71-8	Dichlorodifluoromethane	55	
100-41-4	Ethylbenzene	52	
106-93-4	Ethylene DiBromide	50	
76-13-1	Freon 113	60	
87-68-3	Hexachlorobutadiene	56	
98-82-8	Isopropylbenzene	57	
79-20-9	Methyl Acetate	66	
108-87-2	Methylcyclohexane	57	
75-09-2	Methylene Chloride	52	
91-20-3	Naphthalene	55	
135-98-8	Sec-Butylbenzene	56	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	56	
108-88-3	Toluene	58	
79-01-6	Trichloroethene	48	
75-69-4	Trichlorofluoromethane	72	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108811
Sample Volume :	5	Lab File ID :	A62446.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	43	
75-01-4	Vinyl Chloride	51	
156-59-2	cis-1,2-Dichloroethene	54	
10061-01-5	cis-1,3-Dichloropropene	44	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	54	
103-65-1	n-Propylbenzene	55	
95-47-6	o-Xylene	54	
98-06-6	tert-Butylbenzene	58	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	50	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108821
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	56	
71-55-6	1,1,1-Trichloroethane	56	
79-34-5	1,1,2,2-Tetrachloroethane	53	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	56	
75-35-4	1,1-Dichloroethene	50	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	60	
96-18-4	1,2,3-Trichloropropane	56	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	53	
96-12-8	1,2-Dibromo-3-Chloropropane	57	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	50	
78-87-5	1,2-Dichloropropane	51	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	60	
142-28-9	1,3-Dichloropropane	52	
106-46-7	1,4-Dichlorobenzene	60	
594-20-7	2,2-Dichloropropane	52	
78-93-3	2-Butanone	99	
95-49-8	2-Chlorotoluene	55	
591-78-6	2-Hexanone	96	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	98	
67-64-1	Acetone	86	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108821
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	65	
75-27-4	Bromodichloromethane	49	
75-25-2	Bromoform	60	
74-83-9	Bromomethane	140	
75-15-0	Carbon Disulfide	44	
56-23-5	Carbon Tetrachloride	61	
108-90-7	Chlorobenzene	53	
75-00-3	Chloroethane	90	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	48	
110-82-7	Cyclohexane	51	
124-48-1	Dibromochloromethane	52	
74-95-3	Dibromomethane	50	
75-71-8	Dichlorodifluoromethane	50	
100-41-4	Ethylbenzene	49	
106-93-4	Ethylene DiBromide	50	
76-13-1	Freon 113	61	
87-68-3	Hexachlorobutadiene	59	
98-82-8	Isopropylbenzene	53	
79-20-9	Methyl Acetate	56	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	45	
91-20-3	Naphthalene	60	
135-98-8	Sec-Butylbenzene	54	
100-42-5	Styrene	51	
127-18-4	Tetrachloroethylene	58	
108-88-3	Toluene	63	
79-01-6	Trichloroethene	48	
75-69-4	Trichlorofluoromethane	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108821
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	42	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	49	
10061-01-5	cis-1,3-Dichloropropene	61	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	51	
103-65-1	n-Propylbenzene	51	
95-47-6	o-Xylene	51	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	58	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	61	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108811
Sample Volume :	5	Lab File ID :	A62438.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108811
Sample Volume :	5	Lab File ID :	A62438.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108811
Sample Volume :	5	Lab File ID :	A62438.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108821
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108821
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108821
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108826
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108826
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108826
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108829
Sample Volume :	5	Lab File ID :	A62509.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108829
Sample Volume :	5	Lab File ID :	A62509.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108829
Sample Volume :	5	Lab File ID :	A62509.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9
Sample Volume :	5	Lab File ID :	A62515.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9
Sample Volume :	5	Lab File ID :	A62515.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	15	
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.3	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	3.9	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9
Sample Volume :	5	Lab File ID :	A62515.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	4.5	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MS
Sample Volume :	5	Lab File ID :	A62527.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	53	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	46	
79-00-5	1,1,2-Trichloroethane	52	
75-34-3	1,1-Dichloroethane	54	
75-35-4	1,1-Dichloroethene	59	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	61	
96-18-4	1,2,3-Trichloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	49	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
95-50-1	1,2-Dichlorobenzene	54	
107-06-2	1,2-Dichloroethane	46	
78-87-5	1,2-Dichloropropane	44	
108-67-8	1,3,5-trimethylbenzene	50	
541-73-1	1,3-Dichlorobenzene	56	
142-28-9	1,3-Dichloropropane	45	
106-46-7	1,4-Dichlorobenzene	57	
594-20-7	2,2-Dichloropropane	50	
78-93-3	2-Butanone	76	
95-49-8	2-Chlorotoluene	54	
591-78-6	2-Hexanone	82	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	83	
67-64-1	Acetone	73	
71-43-2	Benzene	46	
108-86-1	Bromobenzene	57	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MS
Sample Volume :	5	Lab File ID :	A62527.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	63	
75-27-4	Bromodichloromethane	46	
75-25-2	Bromoform	52	
74-83-9	Bromomethane	98	
75-15-0	Carbon Disulfide	48	
56-23-5	Carbon Tetrachloride	65	
108-90-7	Chlorobenzene	50	
75-00-3	Chloroethane	78	
67-66-3	Chloroform	51	
74-87-3	Chloromethane	42	
110-82-7	Cyclohexane	56	
124-48-1	Dibromochloromethane	48	
74-95-3	Dibromomethane	48	
75-71-8	Dichlorodifluoromethane	56	
100-41-4	Ethylbenzene	46	
106-93-4	Ethylene DiBromide	45	
76-13-1	Freon 113	98	
87-68-3	Hexachlorobutadiene	64	
98-82-8	Isopropylbenzene	52	
79-20-9	Methyl Acetate	38	
108-87-2	Methylcyclohexane	62	
75-09-2	Methylene Chloride	46	
91-20-3	Naphthalene	58	
135-98-8	Sec-Butylbenzene	53	
100-42-5	Styrene	47	
127-18-4	Tetrachloroethylene	59	
108-88-3	Toluene	55	
79-01-6	Trichloroethene	51	
75-69-4	Trichlorofluoromethane	79	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MS
Sample Volume :	5	Lab File ID :	A62527.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	30	
75-01-4	Vinyl Chloride	41	
156-59-2	cis-1,2-Dichloroethene	52	
10061-01-5	cis-1,3-Dichloropropene	42	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	49	
103-65-1	n-Propylbenzene	48	
95-47-6	o-Xylene	48	
98-06-6	tert-Butylbenzene	54	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	58	
10061-02-6	trans-1,3-dichloropropene	50	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MSD
Sample Volume :	5	Lab File ID :	A62529.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	59	
71-55-6	1,1,1-Trichloroethane	67	
79-34-5	1,1,2,2-Tetrachloroethane	52	
79-00-5	1,1,2-Trichloroethane	58	
75-34-3	1,1-Dichloroethane	60	
75-35-4	1,1-Dichloroethene	65	
563-58-6	1,1-Dichloropropene	56	
87-61-6	1,2,3-Trichlorobenzene	65	
96-18-4	1,2,3-Trichloropropane	55	
120-82-1	1,2,4-Trichlorobenzene	63	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	48	
95-50-1	1,2-Dichlorobenzene	61	
107-06-2	1,2-Dichloroethane	52	
78-87-5	1,2-Dichloropropane	48	
108-67-8	1,3,5-trimethylbenzene	56	
541-73-1	1,3-Dichlorobenzene	62	
142-28-9	1,3-Dichloropropane	49	
106-46-7	1,4-Dichlorobenzene	62	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	82	
95-49-8	2-Chlorotoluene	59	
591-78-6	2-Hexanone	89	
106-43-4	4-Chlorotoluene	59	
99-87-6	4-Isopropyltoluene	62	
108-10-1	4-Methyl-2-Pentanone	92	
67-64-1	Acetone	84	
71-43-2	Benzene	51	
108-86-1	Bromobenzene	63	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MSD
Sample Volume :	5	Lab File ID :	A62529.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	72	
75-27-4	Bromodichloromethane	51	
75-25-2	Bromoform	59	
74-83-9	Bromomethane	100	
75-15-0	Carbon Disulfide	54	
56-23-5	Carbon Tetrachloride	73	
108-90-7	Chlorobenzene	54	
75-00-3	Chloroethane	89	
67-66-3	Chloroform	57	
74-87-3	Chloromethane	53	
110-82-7	Cyclohexane	62	
124-48-1	Dibromochloromethane	54	
74-95-3	Dibromomethane	50	
75-71-8	Dichlorodifluoromethane	60	
100-41-4	Ethylbenzene	51	
106-93-4	Ethylene DiBromide	51	
76-13-1	Freon 113	100	
87-68-3	Hexachlorobutadiene	68	
98-82-8	Isopropylbenzene	56	
79-20-9	Methyl Acetate	43	
108-87-2	Methylcyclohexane	66	
75-09-2	Methylene Chloride	50	
91-20-3	Naphthalene	65	
135-98-8	Sec-Butylbenzene	58	
100-42-5	Styrene	51	
127-18-4	Tetrachloroethylene	64	
108-88-3	Toluene	61	
79-01-6	Trichloroethene	54	
75-69-4	Trichlorofluoromethane	97	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MSD
Sample Volume :	5	Lab File ID :	A62529.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	27	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	57	
10061-01-5	cis-1,3-Dichloropropene	53	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	53	
103-65-1	n-Propylbenzene	52	
95-47-6	o-Xylene	52	
98-06-6	tert-Butylbenzene	59	
1634-04-4	tert-butyl methyl ether	62	
156-60-5	trans-1,2-dichloroethene	60	
10061-02-6	trans-1,3-dichloropropene	56	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-019-1/3
Sample Volume :	5	Lab File ID :	A62462.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-019-1/3
Sample Volume :	5	Lab File ID :	A62462.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	19	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-019-1/3
Sample Volume :	5	Lab File ID :	A62462.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	52	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	4.4	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-025-1/3
Sample Volume :	5	Lab File ID :	A62464.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-025-1/3
Sample Volume :	5	Lab File ID :	A62464.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.9	
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	3.4	
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	150	
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	0.96	J
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	16	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	190	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-025-1/3
Sample Volume :	5	Lab File ID :	A62464.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	60	
156-59-2	cis-1,2-Dichloroethene	290	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	29	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-026-2/3
Sample Volume :	.5	Lab File ID :	A62521.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-026-2/3
Sample Volume :	.5	Lab File ID :	A62521.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	10	U
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	10	U
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-026-2/3
Sample Volume :	.5	Lab File ID :	A62521.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	10	U
156-59-2	cis-1,2-Dichloroethene	180	
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-028-1/3
Sample Volume :	5	Lab File ID :	A62458.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-028-1/3
Sample Volume :	5	Lab File ID :	A62458.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-028-1/3
Sample Volume :	5	Lab File ID :	A62458.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-054-1/9
Sample Volume :	5	Lab File ID :	A62460.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2.1	
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.8	
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	6.2	
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-054-1/9
Sample Volume :	5	Lab File ID :	A62460.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	230	E
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	8.0	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	11	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-054-1/9
Sample Volume :	5	Lab File ID :	A62460.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	8.8	
156-59-2	cis-1,2-Dichloroethene	16	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.7	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9
Sample Volume :	.5	Lab File ID :	A62517.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9
Sample Volume :	.5	Lab File ID :	A62517.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	150	
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	10	U
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9
Sample Volume :	.5	Lab File ID :	A62517.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MS
Sample Volume :	.5	Lab File ID :	A62523.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	460	
71-55-6	1,1,1-Trichloroethane	480	
79-34-5	1,1,2,2-Tetrachloroethane	440	
79-00-5	1,1,2-Trichloroethane	460	
75-34-3	1,1-Dichloroethane	450	
75-35-4	1,1-Dichloroethene	460	
563-58-6	1,1-Dichloropropene	420	
87-61-6	1,2,3-Trichlorobenzene	520	
96-18-4	1,2,3-Trichloropropane	480	
120-82-1	1,2,4-Trichlorobenzene	520	
95-63-6	1,2,4-Trimethylbenzene	440	
96-12-8	1,2-Dibromo-3-Chloropropane	420	
95-50-1	1,2-Dichlorobenzene	490	
107-06-2	1,2-Dichloroethane	420	
78-87-5	1,2-Dichloropropane	390	
108-67-8	1,3,5-trimethylbenzene	430	
541-73-1	1,3-Dichlorobenzene	510	
142-28-9	1,3-Dichloropropane	400	
106-46-7	1,4-Dichlorobenzene	500	
594-20-7	2,2-Dichloropropane	420	
78-93-3	2-Butanone	710	
95-49-8	2-Chlorotoluene	450	
591-78-6	2-Hexanone	740	
106-43-4	4-Chlorotoluene	470	
99-87-6	4-Isopropyltoluene	490	
108-10-1	4-Methyl-2-Pentanone	680	
67-64-1	Acetone	680	
71-43-2	Benzene	400	
108-86-1	Bromobenzene	500	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MS
Sample Volume :	.5	Lab File ID :	A62523.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	560	
75-27-4	Bromodichloromethane	400	
75-25-2	Bromoform	470	
74-83-9	Bromomethane	910	
75-15-0	Carbon Disulfide	400	
56-23-5	Carbon Tetrachloride	540	
108-90-7	Chlorobenzene	430	
75-00-3	Chloroethane	620	
67-66-3	Chloroform	430	
74-87-3	Chloromethane	390	
110-82-7	Cyclohexane	420	
124-48-1	Dibromochloromethane	430	
74-95-3	Dibromomethane	420	
75-71-8	Dichlorodifluoromethane	320	
100-41-4	Ethylbenzene	400	
106-93-4	Ethylene DiBromide	410	
76-13-1	Freon 113	790	
87-68-3	Hexachlorobutadiene	510	
98-82-8	Isopropylbenzene	440	
79-20-9	Methyl Acetate	350	
108-87-2	Methylcyclohexane	480	
75-09-2	Methylene Chloride	390	
91-20-3	Naphthalene	520	
135-98-8	Sec-Butylbenzene	450	
100-42-5	Styrene	420	
127-18-4	Tetrachloroethylene	500	
108-88-3	Toluene	450	
79-01-6	Trichloroethene	400	
75-69-4	Trichlorofluoromethane	580	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MS
Sample Volume :	.5	Lab File ID :	A62523.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	340	
75-01-4	Vinyl Chloride	340	
156-59-2	cis-1,2-Dichloroethene	420	
10061-01-5	cis-1,3-Dichloropropene	370	
136777-61-2	m,p-Xylene	880	
104-51-8	n-Butylbenzene	420	
103-65-1	n-Propylbenzene	410	
95-47-6	o-Xylene	420	
98-06-6	tert-Butylbenzene	470	
1634-04-4	tert-butyl methyl ether	480	
156-60-5	trans-1,2-dichloroethene	460	
10061-02-6	trans-1,3-dichloropropene	440	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MSD
Sample Volume :	.5	Lab File ID :	A62525.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	460	
71-55-6	1,1,1-Trichloroethane	480	
79-34-5	1,1,2,2-Tetrachloroethane	420	
79-00-5	1,1,2-Trichloroethane	470	
75-34-3	1,1-Dichloroethane	460	
75-35-4	1,1-Dichloroethene	470	
563-58-6	1,1-Dichloropropene	410	
87-61-6	1,2,3-Trichlorobenzene	520	
96-18-4	1,2,3-Trichloropropane	450	
120-82-1	1,2,4-Trichlorobenzene	520	
95-63-6	1,2,4-Trimethylbenzene	420	
96-12-8	1,2-Dibromo-3-Chloropropane	410	
95-50-1	1,2-Dichlorobenzene	470	
107-06-2	1,2-Dichloroethane	420	
78-87-5	1,2-Dichloropropane	400	
108-67-8	1,3,5-trimethylbenzene	430	
541-73-1	1,3-Dichlorobenzene	500	
142-28-9	1,3-Dichloropropane	390	
106-46-7	1,4-Dichlorobenzene	490	
594-20-7	2,2-Dichloropropane	430	
78-93-3	2-Butanone	700	
95-49-8	2-Chlorotoluene	460	
591-78-6	2-Hexanone	710	
106-43-4	4-Chlorotoluene	470	
99-87-6	4-Isopropyltoluene	480	
108-10-1	4-Methyl-2-Pentanone	750	
67-64-1	Acetone	600	
71-43-2	Benzene	390	
108-86-1	Bromobenzene	500	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MSD
Sample Volume :	.5	Lab File ID :	A62525.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	560	
75-27-4	Bromodichloromethane	400	
75-25-2	Bromoform	470	
74-83-9	Bromomethane	880	
75-15-0	Carbon Disulfide	400	
56-23-5	Carbon Tetrachloride	530	
108-90-7	Chlorobenzene	430	
75-00-3	Chloroethane	660	
67-66-3	Chloroform	450	
74-87-3	Chloromethane	410	
110-82-7	Cyclohexane	430	
124-48-1	Dibromochloromethane	430	
74-95-3	Dibromomethane	410	
75-71-8	Dichlorodifluoromethane	380	
100-41-4	Ethylbenzene	400	
106-93-4	Ethylene DiBromide	410	
76-13-1	Freon 113	770	
87-68-3	Hexachlorobutadiene	510	
98-82-8	Isopropylbenzene	430	
79-20-9	Methyl Acetate	330	
108-87-2	Methylcyclohexane	470	
75-09-2	Methylene Chloride	410	
91-20-3	Naphthalene	500	
135-98-8	Sec-Butylbenzene	440	
100-42-5	Styrene	420	
127-18-4	Tetrachloroethylene	510	
108-88-3	Toluene	480	
79-01-6	Trichloroethene	390	
75-69-4	Trichlorofluoromethane	620	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MSD
Sample Volume :	.5	Lab File ID :	A62525.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	320	
75-01-4	Vinyl Chloride	350	
156-59-2	cis-1,2-Dichloroethene	430	
10061-01-5	cis-1,3-Dichloropropene	370	
136777-61-2	m,p-Xylene	870	
104-51-8	n-Butylbenzene	400	
103-65-1	n-Propylbenzene	420	
95-47-6	o-Xylene	410	
98-06-6	tert-Butylbenzene	460	
1634-04-4	tert-butyl methyl ether	490	
156-60-5	trans-1,2-dichloroethene	480	
10061-02-6	trans-1,3-dichloropropene	450	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-016-1/3
Sample Volume :	5	Lab File ID :	A62461.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-016-1/3
Sample Volume :	5	Lab File ID :	A62461.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	4.0	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-016-1/3
Sample Volume :	5	Lab File ID :	A62461.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	22	
156-59-2	cis-1,2-Dichloroethene	170	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	5.0	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-022-1/3
Sample Volume :	5	Lab File ID :	A62463.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.2	
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-022-1/3
Sample Volume :	5	Lab File ID :	A62463.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	13	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-022-1/3
Sample Volume :	5	Lab File ID :	A62463.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	32	
156-59-2	cis-1,2-Dichloroethene	220	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	11	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-023-2/3
Sample Volume :	.5	Lab File ID :	A62519.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-023-2/3
Sample Volume :	.5	Lab File ID :	A62519.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	10	U
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	10	U
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-023-2/3
Sample Volume :	.5	Lab File ID :	A62519.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	10	U
156-59-2	cis-1,2-Dichloroethene	140	
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-004-1/3
Sample Volume :	5	Lab File ID :	A62485.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-004-1/3
Sample Volume :	5	Lab File ID :	A62485.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-004-1/3
Sample Volume :	5	Lab File ID :	A62485.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-001-1/3
Sample Volume :	5	Lab File ID :	A62466.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-001-1/3
Sample Volume :	5	Lab File ID :	A62466.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	3.1	
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.6	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-001-1/3
Sample Volume :	5	Lab File ID :	A62466.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	9.0	
156-59-2	cis-1,2-Dichloroethene	30	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-010-007-1/3
Sample Volume :	5	Lab File ID :	A62487.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-010-007-1/3
Sample Volume :	5	Lab File ID :	A62487.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-010-007-1/3
Sample Volume :	5	Lab File ID :	A62487.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-011-010-1/3
Sample Volume :	5	Lab File ID :	A62489.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-011-010-1/3
Sample Volume :	5	Lab File ID :	A62489.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-011-010-1/3
Sample Volume :	5	Lab File ID :	A62489.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-012-013-1/3
Sample Volume :	5	Lab File ID :	A62491.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-012-013-1/3
Sample Volume :	5	Lab File ID :	A62491.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-012-013-1/3
Sample Volume :	5	Lab File ID :	A62491.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903069**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108811	104	98	107	115
BKSD108811	103	98	105	121
BLK108811	95	96	98	102
OU1-16GW03-0309	94	98	99	108
OU1-16GW04-0309	93	96	101	109
OU1-16GW09-0309	95	95	95	108
OU1-16GW40-0309	94	93	93	109
OU1-MW48-0309	94	95	102	109

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903069**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108821	102	122 *	111	116
BKSD108821	100	120	108	119
BLK108821	99	118	106	106
OU1-16GW41-0309	96	119	101	109
OU1-16GW42-0309	97	116	100	112

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903069

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108826	99	117	107	114
BLK108826	96	111	105	107
OU1-MW12-0309	94	114	103	112
OUI-TB02-0309	97	116	101	111
OUI-TB03-0309	95	115	105	108
OUI-TB04-0309	99	119	99	115

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903069**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108829	100	110	109	117
BLK108829	99	111	107	109
OU1-16GW02-0309	94	110	103	111
OU1-16GW02-0309MS	99	107	106	116
OU1-16GW02-0309MSD	100	108	110	114
OU1-16GW04-0309DL	97	109	107	110
OU1-16GW40-0309DL	97	113	104	113
OU1-16GW40-0309DLMS	99	91	108	120
OU1-16GW40-0309DLMSD	101	109	106	116
OU1-16GW42-0309DL	98	108	100	116

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-002-055-2/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1,2-Tetrachloroethane	500	500	0.0	460	460	92	92	0	25	80-130
1,1,1-Trichloroethane	500	500	0.0	480	480	96	96	0	25	65-130
1,1,2,2-Tetrachloroethane	500	500	0.0	440	420	88	84	5	25	65-130
1,1,2-Trichloroethane	500	500	0.0	460	470	92	94	2	25	75-125
1,1-Dichloroethane	500	500	0.0	450	460	90	92	2	25	70-135
1,1-Dichloroethene	500	500	0.0	470	480	92	94	2	25	70-130
1,1-Dichloropropene	500	500	0.0	420	410	84	82	2	25	75-130
1,2,3-Trichlorobenzene	500	500	0.0	520	520	104	104	0	25	55-140
1,2,3-Trichloropropane	500	500	0.0	480	450	96	90	6	25	75-125
1,2,4-Trichlorobenzene	500	500	0.0	520	520	104	104	0	25	65-135
1,2,4-Trimethylbenzene	500	500	0.0	440	430	88	86	2	25	75-130
1,2-Dibromo-3-Chloropropane	500	500	0.0	420	410	84	82	2	25	50-130
1,2-Dichlorobenzene	500	500	0.0	490	470	98	94	4	25	70-120
1,2-Dichloroethane	500	500	0.0	420	420	84	84	0	25	70-130
1,2-Dichloropropane	500	500	0.0	390	400	78	82	5	25	75-125
1,3,5-trimethylbenzene	500	500	0.0	430	430	86	86	0	25	75-130
1,3-Dichlorobenzene	500	500	0.0	510	500	102	100	2	25	75-125
1,3-Dichloropropane	500	500	0.0	400	390	80	78	3	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 5 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-002-055-2/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,4-Dichlorobenzene	500	500	0.0	500	490	100	98	2	25	75-125
2,2-Dichloropropane	500	500	0.0	420	430	84	86	2	25	70-135
2-Butanone	1000	1000	0.0	710	710	71	71	0	25	30-150
2-Chlorotoluene	500	500	0.0	450	460	90	92	2	25	75-125
2-Hexanone	1000	1000	0.0	740	710	74	71	4	25	55-130
4-Chlorotoluene	500	500	0.0	470	470	94	94	0	25	75-130
4-Isopropyltoluene	500	500	0.0	490	480	98	96	2	25	75-130
4-Methyl-2-Pentanone	1000	1000	0.0	680	750	68	75	10	25	60-135
Acetone	500	500	0.0	690	600	138	120	14	25	40-140
Benzene	500	500	0.0	400	390	80	78 *	3	25	80-120
Bromobenzene	500	500	0.0	500	500	100	100	0	25	75-125
Bromochloromethane	500	500	0.0	570	560	114	112	2	25	65-130
Bromodichloromethane	500	500	0.0	400	400	80	80	0	25	75-120
Bromoform	500	500	0.0	470	470	94	94	0	25	70-130
Bromomethane	500	500	0.0	910	890	182 *	178 *	2	25	30-145
Carbon Disulfide	500	500	0.0	400	400	80	80	0	25	35-160
Carbon Tetrachloride	500	500	0.0	540	530	108	106	2	25	65-140
Chlorobenzene	500	500	0.0	430	430	86	86	0	25	80-120

#Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 5 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-002-055-2/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Chloroethane	500	500	0.0	620	660	124	132	6	25	60-135
Chloroform	500	500	0.0	430	450	86	90	5	25	65-135
Chloromethane	500	500	0.0	390	410	78	82	5	25	40-125
Cyclohexane	500	500	0.0	420	430	84	86	2	25	50-120
Dibromochloromethane	500	500	0.0	430	430	86	86	0	25	60-135
Dibromomethane	500	500	0.0	420	410	84	82	2	25	75-125
Dichlorodifluoromethane	500	500	0.0	320	380	64	76	17	25	30-155
Ethylbenzene	500	500	0.0	400	400	80	80	0	25	75-125
Ethylene DiBromide	500	500	0.0	410	410	82	82	0	25	80-120
Freon 113	500	500	150	790	770	128 *	124 *	3	25	70-120
Hexachlorobutadiene	500	500	0.0	510	510	102	102	0	25	50-140
Isopropylbenzene	500	500	0.0	440	430	88	86	2	25	75-125
Methyl Acetate	500	500	0.0	350	330	70	66	6	25	50-120
Methylcyclohexane	500	500	0.0	480	470	96	94	2	25	50-120
Methylene Chloride	500	500	0.0	390	410	78	82	5	25	55-140
Naphthalene	500	500	0.0	520	500	104	100	4	25	55-140
Sec-Butylbenzene	500	500	0.0	450	440	90	88	2	25	70-125
Styrene	500	500	0.0	420	420	84	84	0	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 5 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-002-055-2/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Tetrachloroethylene	500	500	0.0	500	510	100	102	2	25	45-150
Toluene	500	500	0.0	450	480	90	96	6	25	75-120
Trichloroethene	500	500	0.0	400	390	80	78	3	25	70-125
Trichlorofluoromethane	500	500	0.0	580	620	116	124	7	25	60-145
Vinyl Acetate	500	500	0.0	340	320	68	64	6	25	36-133
Vinyl Chloride	500	500	0.0	340	350	68	70	3	25	50-145
cis-1,2-Dichloroethene	500	500	0.0	420	430	84	86	2	25	70-125
cis-1,3-Dichloropropene	500	500	0.0	370	370	74	74	0	25	70-130
m,p-Xylene	1000	1000	0.0	880	870	88	87	1	25	75-130
n-Butylbenzene	500	500	0.0	420	400	84	80	5	25	70-135
n-Propylbenzene	500	500	0.0	410	420	82	84	2	25	70-130
o-Xylene	500	500	0.0	420	410	84	82	2	25	80-120
tert-Butylbenzene	500	500	0.0	480	460	94	92	2	25	70-130
tert-butyl methyl ether	500	500	0.0	480	500	96	98	2	25	65-125
trans-1,2-dichloroethene	500	500	0.0	460	480	92	96	4	25	60-140
trans-1,3-dichloropropene	500	500	0.0	440	450	88	90	2	25	55-140

column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 5 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-007-045-1/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1,2-Tetrachloroethane	50	50	0.0	53	59	106	118	11	25	80-130
1,1,1-Trichloroethane	50	50	0.0	60	67	120	134 *	11	25	65-130
1,1,2,2-Tetrachloroethane	50	50	0.0	46	52	92	104	12	25	65-130
1,1,2-Trichloroethane	50	50	0.0	52	58	104	116	11	25	75-125
1,1-Dichloroethane	50	50	0.0	55	60	110	120	9	25	70-135
1,1-Dichloroethene	50	50	0.0	59	65	118	130	10	25	70-130
1,1-Dichloropropene	50	50	0.0	51	56	102	112	9	25	75-130
1,2,3-Trichlorobenzene	50	50	0.0	61	66	122	130	6	25	55-140
1,2,3-Trichloropropane	50	50	0.0	49	55	98	110	12	25	75-125
1,2,4-Trichlorobenzene	50	50	0.0	58	63	116	126	8	25	65-135
1,2,4-Trimethylbenzene	50	50	0.0	49	54	98	108	10	25	75-130
1,2-Dibromo-3-Chloropropane	50	50	0.0	45	48	90	96	6	25	50-130
1,2-Dichlorobenzene	50	50	0.0	54	61	108	122 *	12	25	70-120
1,2-Dichloroethane	50	50	0.0	46	52	92	104	12	25	70-130
1,2-Dichloropropane	50	50	0.0	45	48	90	96	6	25	75-125
1,3,5-trimethylbenzene	50	50	0.0	50	56	100	112	11	25	75-130
1,3-Dichlorobenzene	50	50	0.0	56	62	112	124	10	25	75-125
1,3-Dichloropropane	50	50	0.0	45	49	90	98	9	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 19 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-007-045-1/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,4-Dichlorobenzene	50	50	0.0	57	62	114	124	8	25	75-125
2,2-Dichloropropane	50	50	0.0	50	54	100	108	8	25	70-135
2-Butanone	100	100	0.0	76	82	76	82	8	25	30-150
2-Chlorotoluene	50	50	0.0	54	59	108	118	9	25	75-125
2-Hexanone	100	100	0.0	82	89	82	89	8	25	55-130
4-Chlorotoluene	50	50	0.0	54	59	108	118	9	25	75-130
4-Isopropyltoluene	50	50	0.0	58	62	114	124	8	25	75-130
4-Methyl-2-Pentanone	100	100	0.0	84	92	83	92	10	25	60-135
Acetone	50	50	0.0	73	84	146 *	168 *	14	25	40-140
Benzene	50	50	0.0	46	51	92	102	10	25	80-120
Bromobenzene	50	50	0.0	57	63	114	126 *	10	25	75-125
Bromochloromethane	50	50	0.0	63	72	126	144 *	13	25	65-130
Bromodichloromethane	50	50	0.0	46	51	92	102	10	25	75-120
Bromoform	50	50	0.0	53	59	106	118	11	25	70-130
Bromomethane	50	50	0.0	98	100	196 *	220 *	12	25	30-145
Carbon Disulfide	50	50	0.0	49	54	98	108	10	25	35-160
Carbon Tetrachloride	50	50	0.0	65	73	130	146 *	12	25	65-140
Chlorobenzene	50	50	0.0	50	54	100	110	10	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 19 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-007-045-1/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Chloroethane	50	50	0.0	78	89	156 *	178 *	13	25	60-135
Chloroform	50	50	0.0	51	57	102	114	11	25	65-135
Chloromethane	50	50	0.0	43	53	86	106	21	25	40-125
Cyclohexane	50	50	0.0	57	62	112	124 *	10	25	50-120
Dibromochloromethane	50	50	0.0	48	54	96	110	14	25	60-135
Dibromomethane	50	50	0.0	48	50	96	100	4	25	75-125
Dichlorodifluoromethane	50	50	0.0	56	60	112	120	7	25	30-155
Ethylbenzene	50	50	0.0	46	51	92	102	10	25	75-125
Ethylene DiBromide	50	50	0.0	45	51	90	102	13	25	80-120
Freon 113	50	50	15	98	100	166 *	170 *	2	25	70-120
Hexachlorobutadiene	50	50	0.0	64	68	128	136	6	25	50-140
Isopropylbenzene	50	50	0.0	52	56	104	112	7	25	75-125
Methyl Acetate	50	50	0.0	38	43	76	86	12	25	50-120
Methylcyclohexane	50	50	0.0	62	66	124 *	132 *	6	25	50-120
Methylene Chloride	50	50	2.3	46	50	87	95	9	25	55-140
Naphthalene	50	50	0.0	58	65	116	130	11	25	55-140
Sec-Butylbenzene	50	50	0.0	53	58	106	116	9	25	70-125
Styrene	50	50	0.0	47	51	94	102	8	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 19 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-007-045-1/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Tetrachloroethylene	50	50	0.0	59	64	118	128	8	25	45-150
Toluene	50	50	0.0	55	61	110	122 *	10	25	75-120
Trichloroethene	50	50	3.9	51	54	94	100	6	25	70-125
Trichlorofluoromethane	50	50	0.0	79	97	158 *	194 *	20	25	60-145
Vinyl Acetate	50	50	0.0	30	27	60	54	11	25	36-133
Vinyl Chloride	50	50	0.0	41	47	82	94	14	25	50-145
cis-1,2-Dichloroethene	50	50	4.5	53	57	97	105	8	25	70-125
cis-1,3-Dichloropropene	50	50	0.0	42	53	84	106	23	25	70-130
m,p-Xylene	100	100	0.0	100	110	100	110	10	25	75-130
n-Butylbenzene	50	50	0.0	49	53	98	106	8	25	70-135
n-Propylbenzene	50	50	0.0	49	52	98	104	6	25	70-130
o-Xylene	50	50	0.0	48	52	96	104	8	25	80-120
tert-Butylbenzene	50	50	0.0	55	59	110	118	7	25	70-130
tert-butyl methyl ether	50	50	0.0	57	62	114	124	8	25	65-125
trans-1,2-dichloroethene	50	50	0.0	58	60	116	120	3	25	60-140
trans-1,3-dichloropropene	50	50	0.0	51	57	102	114	11	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 19 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108811

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : BKSD108811 Matrix : WATER Analysis Date : 03/23/2009

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	QC Limits
1,1,1,2-Tetrachloroethane	50	0.0	52	52	104	104	0	25	80-130
1,1,1-Trichloroethane	50	0.0	58	60	116	120	3	25	65-130
1,1,2,2-Tetrachloroethane	50	0.0	47	50	94	100	6	25	65-130
1,1,2-Trichloroethane	50	0.0	60	49	120	98	20	25	75-125
1,1-Dichloroethane	50	0.0	59	60	116	120	3	25	70-135
1,1-Dichloroethene	50	0.0	54	52	108	104	4	25	70-130
1,1-Dichloropropene	50	0.0	51	50	102	100	2	25	75-130
1,2,3-Trichlorobenzene	50	0.0	55	59	110	118	7	25	55-140
1,2,3-Trichloropropane	50	0.0	48	52	96	104	8	25	75-125
1,2,4-Trichlorobenzene	50	0.0	56	59	112	118	5	25	65-135
1,2,4-Trimethylbenzene	50	0.0	53	54	106	108	2	25	75-130
1,2-Dibromo-3-Chloropropane	50	0.0	45	49	90	98	9	25	50-130
1,2-Dichlorobenzene	50	0.0	58	60	116	120	3	25	70-120
1,2-Dichloroethane	50	0.0	51	52	102	104	2	25	70-130
1,2-Dichloropropane	50	0.0	50	49	100	98	2	25	75-125
1,3,5-trimethylbenzene	50	0.0	52	56	104	112	7	25	75-130
1,3-Dichlorobenzene	50	0.0	56	61	112	122	9	25	75-125
1,3-Dichloropropane	50	0.0	50	42	100	84	17	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 1 Out of 70 Outside Limit
Spike Recovery : 3 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108811

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108811

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
1,4-Dichlorobenzene	50	0.0	58	62	116	124	7	25	75-125
2,2-Dichloropropane	50	0.0	56	55	112	110	2	25	70-135
2-Butanone	100	0.0	16	100	16 *	100	145 *	25	30-150
2-Chlorotoluene	50	0.0	60	60	120	120	0	25	75-125
2-Hexanone	100	0.0	77	81	77	81	5	25	55-130
4-Chlorotoluene	50	0.0	56	58	112	116	4	25	75-130
4-Isopropyltoluene	50	0.0	57	60	114	120	5	25	75-130
4-Methyl-2-Pentanone	100	0.0	69	71	69	71	3	25	60-135
Acetone	100	0.0	120	110	120	110	9	25	40-140
Benzene	50	0.0	47	48	94	96	2	25	80-120
Bromobenzene	50	0.0	58	60	116	120	3	25	75-125
Bromochloromethane	50	0.0	60	59	120	118	2	25	65-130
Bromodichloromethane	50	0.0	49	50	98	100	2	25	75-120
Bromoform	50	0.0	48	47	96	94	2	25	70-130
Bromomethane	50	0.0	60	67	120	132	10	25	30-145
Carbon Disulfide	50	0.0	51	52	102	104	2	25	35-160
Carbon Tetrachloride	50	0.0	58	58	116	116	0	25	65-140
Chlorobenzene	50	0.0	53	55	106	110	4	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 1 Out of 70 Outside Limit
Spike Recovery : 3 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108811

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108811

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Chloroethane	50	0.0	47	51	94	102	8	25	60-135
Chloroform	50	0.0	54	56	108	112	4	25	65-135
Chloromethane	50	0.0	67	61	134 *	122	9	25	40-125
Cyclohexane	50	0.0	53	55	104	110	6	25	50-120
Dibromochloromethane	50	0.0	54	54	108	108	0	25	60-135
Dibromomethane	50	0.0	52	52	104	104	0	25	75-125
Dichlorodifluoromethane	50	0.0	55	55	110	110	0	25	30-155
Ethylbenzene	50	0.0	50	52	100	104	4	25	75-125
Ethylene DiBromide	50	0.0	49	50	98	100	2	25	80-120
Freon 113	50	0.0	60	60	120	120	0	25	70-130
Hexachlorobutadiene	50	0.0	51	56	102	112	9	25	50-140
Isopropylbenzene	50	0.0	53	57	106	114	7	25	75-125
Methyl Acetate	50	0.0	59	66	118	132 *	11	25	50-120
Methylcyclohexane	50	0.0	54	57	108	114	5	25	50-120
Methylene Chloride	50	0.0	51	52	102	104	2	25	55-140
Naphthalene	50	0.0	50	56	100	110	10	25	55-140
Sec-Butylbenzene	50	0.0	53	56	106	112	6	25	70-125
Styrene	50	0.0	52	54	104	108	4	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 1 Out of 70 Outside Limit
Spike Recovery : 3 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108811

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108811

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Tetrachloroethylene	50	0.0	59	56	118	112	5	25	45-150
Toluene	50	0.0	54	58	108	116	7	25	75-120
Trichloroethene	50	0.0	46	48	92	96	4	25	70-125
Trichlorofluoromethane	50	0.0	64	72	128	144	12	25	60-145
Vinyl Acetate	50	0.0	43	43	86	86	0	25	41-139
Vinyl Chloride	50	0.0	48	51	96	102	6	25	50-145
cis-1,2-Dichloroethene	50	0.0	53	54	106	108	2	25	70-125
cis-1,3-Dichloropropene	50	0.0	44	44	86	88	2	25	70-130
m,p-Xylene	100	0.0	100	100	100	100	0	25	75-130
n-Butylbenzene	50	0.0	52	54	104	108	4	25	70-135
n-Propylbenzene	50	0.0	52	55	104	110	6	25	70-130
o-Xylene	50	0.0	52	54	104	108	4	25	80-120
tert-Butylbenzene	50	0.0	54	58	108	116	7	25	70-130
tert-butyl methyl ether	50	0.0	56	57	112	114	2	25	65-125
trans-1,2-dichloroethene	50	0.0	52	55	104	110	6	25	60-140
trans-1,3-dichloropropene	50	0.0	58	50	116	100	15	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 1 Out of 70 Outside Limit
Spike Recovery : 3 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108821

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : BKSD108821 Matrix : WATER Analysis Date : 03/23/2009

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	QC Limits
1,1,1,2-Tetrachloroethane	50	0.0	57	56	114	112	2	25	80-130
1,1,1-Trichloroethane	50	0.0	57	56	114	112	2	25	65-130
1,1,2,2-Tetrachloroethane	50	0.0	50	53	100	106	6	25	65-130
1,1,2-Trichloroethane	50	0.0	61	62	122	124	2	25	75-125
1,1-Dichloroethane	50	0.0	57	56	114	112	2	25	70-135
1,1-Dichloroethene	50	0.0	53	50	104	100	4	25	70-130
1,1-Dichloropropene	50	0.0	50	51	100	102	2	25	75-130
1,2,3-Trichlorobenzene	50	0.0	61	60	122	120	2	25	55-140
1,2,3-Trichloropropane	50	0.0	50	56	100	112	11	25	75-125
1,2,4-Trichlorobenzene	50	0.0	61	58	120	116	3	25	65-135
1,2,4-Trimethylbenzene	50	0.0	54	53	108	106	2	25	75-130
1,2-Dibromo-3-Chloropropane	50	0.0	50	57	100	114	13	25	50-130
1,2-Dichlorobenzene	50	0.0	59	58	118	116	2	25	70-120
1,2-Dichloroethane	50	0.0	51	50	102	100	2	25	70-130
1,2-Dichloropropane	50	0.0	50	51	100	102	2	25	75-125
1,3,5-trimethylbenzene	50	0.0	54	54	108	108	0	25	75-130
1,3-Dichlorobenzene	50	0.0	60	60	120	120	0	25	75-125
1,3-Dichloropropane	50	0.0	50	52	100	104	4	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108821

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108821

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
1,4-Dichlorobenzene	50	0.0	60	60	120	120	0	25	75-125
2,2-Dichloropropane	50	0.0	54	52	108	104	4	25	70-135
2-Butanone	100	0.0	96	99	96	99	3	25	30-150
2-Chlorotoluene	50	0.0	56	56	112	110	2	25	75-125
2-Hexanone	100	0.0	91	96	91	96	5	25	55-130
4-Chlorotoluene	50	0.0	56	56	112	112	0	25	75-130
4-Isopropyltoluene	50	0.0	59	59	118	118	0	25	75-130
4-Methyl-2-Pentanone	100	0.0	92	98	92	98	6	25	60-135
Acetone	100	0.0	93	86	92	86	7	25	40-140
Benzene	50	0.0	48	48	96	96	0	25	80-120
Bromobenzene	50	0.0	60	60	120	120	0	25	75-125
Bromochloromethane	50	0.0	62	65	124	130	5	25	65-130
Bromodichloromethane	50	0.0	59	49	118	98	19	25	75-120
Bromoform	50	0.0	59	60	116	120	3	25	70-130
Bromomethane	50	0.0	120	140	240 *	280 *	15	25	30-145
Carbon Disulfide	50	0.0	46	44	92	88	4	25	35-160
Carbon Tetrachloride	50	0.0	62	61	124	122	2	25	65-140
Chlorobenzene	50	0.0	52	53	104	106	2	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108821

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108821

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Chloroethane	50	0.0	86	90	172 *	180 *	5	25	60-135
Chloroform	50	0.0	53	54	106	108	2	25	65-135
Chloromethane	50	0.0	47	48	92	96	4	25	40-125
Cyclohexane	50	0.0	51	51	100	102	2	25	50-120
Dibromochloromethane	50	0.0	53	52	106	104	2	25	60-135
Dibromomethane	50	0.0	51	50	102	100	2	25	75-125
Dichlorodifluoromethane	50	0.0	57	50	114	100	13	25	30-155
Ethylbenzene	50	0.0	50	49	100	98	2	25	75-125
Ethylene DiBromide	50	0.0	49	50	98	100	2	25	80-120
Freon 113	50	0.0	64	61	128	122	5	25	70-130
Hexachlorobutadiene	50	0.0	65	59	130	118	10	25	50-140
Isopropylbenzene	50	0.0	53	53	106	106	0	25	75-125
Methyl Acetate	50	0.0	44	56	88	112	24	25	50-120
Methylcyclohexane	50	0.0	55	54	108	108	0	25	50-120
Methylene Chloride	50	0.0	48	45	96	90	6	25	55-140
Naphthalene	50	0.0	55	60	110	120	9	25	55-140
Sec-Butylbenzene	50	0.0	56	54	110	108	2	25	70-125
Styrene	50	0.0	51	51	102	102	0	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108821

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108821

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Tetrachloroethylene	50	0.0	61	58	122	116	5	25	45-150
Toluene	50	0.0	63	63	126 *	126 *	0	25	75-120
Trichloroethene	50	0.0	49	48	98	96	2	25	70-125
Trichlorofluoromethane	50	0.0	64	51	128	102	23	25	60-145
Vinyl Acetate	50	0.0	43	42	86	84	2	25	41-139
Vinyl Chloride	50	0.0	44	44	88	86	2	25	50-145
cis-1,2-Dichloroethene	50	0.0	48	49	96	98	2	25	70-125
cis-1,3-Dichloropropene	50	0.0	61	61	122	122	0	25	70-130
m,p-Xylene	100	0.0	110	110	110	110	0	25	75-130
n-Butylbenzene	50	0.0	53	51	106	102	4	25	70-135
n-Propylbenzene	50	0.0	52	51	104	102	2	25	70-130
o-Xylene	50	0.0	51	51	102	102	0	25	80-120
tert-Butylbenzene	50	0.0	56	56	112	112	0	25	70-130
tert-butyl methyl ether	50	0.0	57	58	114	116	2	25	65-125
trans-1,2-dichloroethene	50	0.0	52	52	104	104	0	25	60-140
trans-1,3-dichloropropene	50	0.0	59	61	118	122	3	25	55-140

* Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108826

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108826
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	59	118	80-130
1,1,1-Trichloroethane	50	0	60	120	65-130
1,1,2,2-Tetrachloroethane	50	0	50	100	65-130
1,1,2-Trichloroethane	50	0	63	126 *	75-125
1,1-Dichloroethane	50	0	58	116	70-135
1,1-Dichloroethene	50	0	52	104	70-130
1,1-Dichloropropene	50	0	52	104	75-130
1,2,3-Trichlorobenzene	50	0	60	120	55-140
1,2,3-Trichloropropane	50	0	52	104	75-125
1,2,4-Trichlorobenzene	50	0	59	118	65-135
1,2,4-Trimethylbenzene	50	0	56	112	75-130
1,2-Dibromo-3-Chloropropane	50	0	45	90	50-130
1,2-Dichlorobenzene	50	0	60	120	70-120
1,2-Dichloroethane	50	0	53	106	70-130
1,2-Dichloropropane	50	0	52	104	75-125
1,3,5-trimethylbenzene	50	0	55	110	75-130
1,3-Dichlorobenzene	50	0	62	124	75-125
1,3-Dichloropropane	50	0	51	102	75-125
1,4-Dichlorobenzene	50	0	62	124	75-125
2,2-Dichloropropane	50	0	56	112	70-135
2-Butanone	100	0	90	90	30-150
2-Chlorotoluene	50	0	58	116	75-125
2-Hexanone	100	0	87	87	55-130
4-Chlorotoluene	50	0	59	118	75-130
4-Isopropyltoluene	50	0	63	126	75-130

* Values Outside of QC Limits.

Spike recovery : 1 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108826

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108826
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	90	90	60-135
Acetone	100	0	87	87	40-140
Benzene	50	0	50	100	80-120
Bromobenzene	50	0	62	124	75-125
Bromochloromethane	50	0	67	134 *	65-130
Bromodichloromethane	50	0	62	124 *	75-120
Bromoform	50	0	57	114	70-130
Bromomethane	50	0	120	240 *	30-145
Carbon Disulfide	50	0	45	90	35-160
Carbon Tetrachloride	50	0	63	126	65-140
Chlorobenzene	50	0	55	110	80-120
Chloroethane	50	0	69	138 *	60-135
Chloroform	50	0	58	116	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	45	90	50-120
Dibromochloromethane	50	0	55	110	60-135
Dibromomethane	50	0	52	104	75-125
Dichlorodifluoromethane	50	0	41	82	30-155
Ethylbenzene	50	0	52	104	75-125
Ethylene DiBromide	50	0	52	104	80-120
Freon 113	50	0	56	112	70-130
Hexachlorobutadiene	50	0	63	126	50-140
Isopropylbenzene	50	0	55	110	75-125
Methyl Acetate	50	0	42	84	50-120
Methylcyclohexane	50	0	48	96	50-120

* Values Outside of QC Limits.

Spike recovery : 4 out of 25 outside limits

SW8260LL

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108826

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108826
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	50	100	55-140
Naphthalene	50	0	54	108	55-140
Sec-Butylbenzene	50	0	57	114	70-125
Styrene	50	0	53	106	65-135
Tetrachloroethylene	50	0	61	122	45-150
Toluene	50	0	64	128 *	75-120
Trichloroethene	50	0	49	98	70-125
Trichlorofluoromethane	50	0	51	102	60-145
Vinyl Acetate	50	0	39	78	41-139
Vinyl Chloride	50	0	43	86	50-145
cis-1,2-Dichloroethene	50	0	51	102	70-125
cis-1,3-Dichloropropene	50	0	62	124	70-130
m,p-Xylene	100	0	110	110	75-130
n-Butylbenzene	50	0	55	110	70-135
n-Propylbenzene	50	0	53	106	70-130
o-Xylene	50	0	53	106	80-120
tert-Butylbenzene	50	0	59	118	70-130
tert-butyl methyl ether	50	0	59	118	65-125
trans-1,2-dichloroethene	50	0	55	110	60-140
trans-1,3-dichloropropene	50	0	60	120	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108829

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108829
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	55	110	80-130
1,1,1-Trichloroethane	50	0	56	112	65-130
1,1,2,2-Tetrachloroethane	50	0	47	94	65-130
1,1,2-Trichloroethane	50	0	54	108	75-125
1,1-Dichloroethane	50	0	55	110	70-135
1,1-Dichloroethene	50	0	52	104	70-130
1,1-Dichloropropene	50	0	48	96	75-130
1,2,3-Trichlorobenzene	50	0	61	122	55-140
1,2,3-Trichloropropane	50	0	49	98	75-125
1,2,4-Trichlorobenzene	50	0	58	116	65-135
1,2,4-Trimethylbenzene	50	0	51	102	75-130
1,2-Dibromo-3-Chloropropane	50	0	45	90	50-130
1,2-Dichlorobenzene	50	0	56	112	70-120
1,2-Dichloroethane	50	0	49	98	70-130
1,2-Dichloropropane	50	0	46	92	75-125
1,3,5-trimethylbenzene	50	0	50	100	75-130
1,3-Dichlorobenzene	50	0	58	116	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	57	114	75-125
2,2-Dichloropropane	50	0	50	100	70-135
2-Butanone	100	0	87	87	30-150
2-Chlorotoluene	50	0	54	108	75-125
2-Hexanone	100	0	85	85	55-130
4-Chlorotoluene	50	0	54	108	75-130
4-Isopropyltoluene	50	0	57	114	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108829

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108829
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	86	86	60-135
Acetone	50	0	82	164 *	40-140
Benzene	50	0	46	92	80-120
Bromobenzene	50	0	58	116	75-125
Bromochloromethane	50	0	62	124	65-130
Bromodichloromethane	50	0	46	92	75-120
Bromoform	50	0	54	108	70-130
Bromomethane	50	0	130	260 *	30-145
Carbon Disulfide	50	0	46	92	35-160
Carbon Tetrachloride	50	0	61	122	65-140
Chlorobenzene	50	0	50	100	80-120
Chloroethane	50	0	50	100	60-135
Chloroform	50	0	52	104	65-135
Chloromethane	50	0	47	94	40-125
Cyclohexane	50	0	44	88	50-120
Dibromochloromethane	50	0	51	102	60-135
Dibromomethane	50	0	48	96	75-125
Dichlorodifluoromethane	50	0	44	88	30-155
Ethylbenzene	50	0	47	94	75-125
Ethylene DiBromide	50	0	46	92	80-120
Freon 113	50	0	57	114	70-130
Hexachlorobutadiene	50	0	59	118	50-140
Isopropylbenzene	50	0	50	100	75-125
Methyl Acetate	50	0	41	82	50-120
Methylcyclohexane	50	0	50	100	50-120

* Values Outside of QC Limits.

Spike recovery : 2 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108829

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108829
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	47	94	55-140
Naphthalene	50	0	55	110	55-140
Sec-Butylbenzene	50	0	52	104	70-125
Styrene	50	0	49	98	65-135
Tetrachloroethylene	50	0	56	112	45-150
Toluene	50	0	55	110	75-120
Trichloroethene	50	0	47	94	70-125
Trichlorofluoromethane	50	0	51	102	60-145
Vinyl Acetate	50	0	150	300 *	41-139
Vinyl Chloride	50	0	44	88	50-145
cis-1,2-Dichloroethene	50	0	50	100	70-125
cis-1,3-Dichloropropene	50	0	53	106	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	48	96	70-135
n-Propylbenzene	50	0	48	96	70-130
o-Xylene	50	0	47	94	80-120
tert-Butylbenzene	50	0	54	108	70-130
tert-butyl methyl ether	50	0	56	112	65-125
trans-1,2-dichloroethene	50	0	52	104	60-140
trans-1,3-dichloropropene	50	0	53	106	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	A62438.D	SDG NO :	903069
Date Analyzed	03/23/2009	Lab Sample ID :	BLK108811
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	13:47

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108811	BKS108811	A62440.D	14:39
BKSD108811	BKSD108811	A62446.D	16:41
OU1-16GW03-0309	903069-004-019-1/3	A62462.D	22:06
OU1-16GW04-0309	903069-006-025-1/3	A62464.D	22:48
OU1-16GW09-0309	903069-001-028-1/3	A62458.D	20:45
OU1-16GW40-0309	903069-002-054-1/9	A62460.D	21:26
OU1-MW48-0309	903069-008-001-1/3	A62466.D	23:28

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	A62437.D	SDG NO :	903069
Date Analyzed	03/23/2009	Lab Sample ID :	BLK108821
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	13:26

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108821	BKS108821	A62439.D	14:18
BKSD108821	BKSD108821	A62445.D	16:20
OU1-16GW41-0309	903069-003-016-1/3	A62461.D	21:46
OU1-16GW42-0309	903069-005-022-1/3	A62463.D	22:27

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	A62475.D	SDG NO :	903069
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108826
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:06

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108826	BKS108826	A62473.D	10:25
OU1-MW12-0309	903069-009-004-1/3	A62485.D	15:12
OUI-TB02-0309	903069-010-007-1/3	A62487.D	15:52
OUI-TB03-0309	903069-011-010-1/3	A62489.D	16:56
OUI-TB04-0309	903069-012-013-1/3	A62491.D	17:36

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	A62509.D	SDG NO :	903069
Date Analyzed	03/25/2009	Lab Sample ID :	BLK108829
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	12:19

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108829	BKS108829	A62507.D	11:26
OU1-16GW02-0309	903069-007-045-1/9	A62515.D	14:20
OU1-16GW02-0309MS	903069-007-045-1/9MS	A62527.D	18:37
OU1-16GW02-0309MSD	903069-007-045-1/9MSD	A62529.D	19:18
OU1-16GW04-0309DL	903069-006-026-2/3	A62521.D	16:35
OU1-16GW40-0309DL	903069-002-055-2/9	A62517.D	15:13
OU1-16GW40-0309DLMS	903069-002-055-2/9MS	A62523.D	17:16
OU1-16GW40-0309DLMSD	903069-002-055-2/9MSD	A62525.D	17:57
OU1-16GW42-0309DL	903069-005-023-2/3	A62519.D	15:54

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62434.D BFB Injection Date : 03/23/2009 BFB Injection Time : 11:49

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.1	
75	30.0 - 60.0% of mass 95	52.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	5.9	
173	Less than 2.0% of mass 174	1.0	(1.1)1
174	50.0 - 120.0% of mass 95	88.4	
175	5.0 - 9.0% of mass 174	6.9	(7.8)1
176	95.0 - 101.0% of mass 174	85.0	(96.1)1
177	5.0 - 9.0% of mass 176	5.6	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL50	CAL50	A62436.D	03/23/2009	12:53
2	BLK108811	BLK108811	A62438.D	03/23/2009	13:47
3	BKS108811	BKS108811	A62440.D	03/23/2009	14:39
4	BKSD108811	BKSD108811	A62446.D	03/23/2009	16:41
5	OU1-16GW09-0309	903069-001-028-1/3	A62458.D	03/23/2009	20:45
6	OU1-16GW40-0309	903069-002-054-1/9	A62460.D	03/23/2009	21:26
7	OU1-16GW03-0309	903069-004-019-1/3	A62462.D	03/23/2009	22:06
8	OU1-16GW04-0309	903069-006-025-1/3	A62464.D	03/23/2009	22:48
9	OU1-MW48-0309	903069-008-001-1/3	A62466.D	03/23/2009	23:28

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62433.D BFB Injection Date : 03/23/2009 BFB Injection Time : 11:28

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.4	
75	30.0 - 60.0% of mass 95	53.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.1	
173	Less than 2.0% of mass 174	1.3	(1.4)1
174	50.0 - 120.0% of mass 95	87.4	
175	5.0 - 9.0% of mass 174	6.8	(7.8)1
176	95.0 - 101.0% of mass 174	84.8	(97.0)1
177	5.0 - 9.0% of mass 176	6.0	(7.1)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62435.D	03/23/2009	12:32
2	BLK108821	BLK108821	A62437.D	03/23/2009	13:26
3	BKS108821	BKS108821	A62439.D	03/23/2009	14:18
4	BKSD108821	BKSD108821	A62445.D	03/23/2009	16:20
5	OU1-16GW41-0309	903069-003-016-1/3	A62461.D	03/23/2009	21:46
6	OU1-16GW42-0309	903069-005-022-1/3	A62463.D	03/23/2009	22:27

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62467.D BFB Injection Date : 03/24/2009 BFB Injection Time : 07:34

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.7	
75	30.0 - 60.0% of mass 95	51.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.3	
173	Less than 2.0% of mass 174	0.8	(.8)1
174	50.0 - 120.0% of mass 95	95.6	
175	5.0 - 9.0% of mass 174	7.6	(7.9)1
176	95.0 - 101.0% of mass 174	91.0	(95.1)1
177	5.0 - 9.0% of mass 176	5.8	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62471.D	03/24/2009	09:22
2	BKS108826	BKS108826	A62473.D	03/24/2009	10:25
3	BLK108826	BLK108826	A62475.D	03/24/2009	11:06
4	OU1-MW12-0309	903069-009-004-1/3	A62485.D	03/24/2009	15:12
5	OUI-TB02-0309	903069-010-007-1/3	A62487.D	03/24/2009	15:52
6	OUI-TB03-0309	903069-011-010-1/3	A62489.D	03/24/2009	16:56
7	OUI-TB04-0309	903069-012-013-1/3	A62491.D	03/24/2009	17:36

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62501.D BFB Injection Date : 03/25/2009 BFB Injection Time : 08:34

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	20.6	
75	30.0 - 60.0% of mass 95	51.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	5.9	
173	Less than 2.0% of mass 174	1.6	(1.7)1
174	50.0 - 120.0% of mass 95	90.9	
175	5.0 - 9.0% of mass 174	7.6	(8.3)1
176	95.0 - 101.0% of mass 174	86.8	(95.6)1
177	5.0 - 9.0% of mass 176	6.2	(7.1)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62505.D	03/25/2009	10:36
2	BKS108829	BKS108829	A62507.D	03/25/2009	11:26
3	BLK108829	BLK108829	A62509.D	03/25/2009	12:19
4	OU1-16GW02-0309	903069-007-045-1/9	A62515.D	03/25/2009	14:20
5	OU1-16GW40-0309DL	903069-002-055-2/9	A62517.D	03/25/2009	15:13
6	OU1-16GW42-0309DL	903069-005-023-2/3	A62519.D	03/25/2009	15:54
7	OU1-16GW04-0309DL	903069-006-026-2/3	A62521.D	03/25/2009	16:35
8	OU1-16GW40-0309DLMS	903069-002-055-2/9MS	A62523.D	03/25/2009	17:16
9	OU1-16GW40-0309DLMSD	903069-002-055-2/9MSD	A62525.D	03/25/2009	17:57
10	OU1-16GW02-0309MS	903069-007-045-1/9MS	A62527.D	03/25/2009	18:37
11	OU1-16GW02-0309MSD	903069-007-045-1/9MSD	A62529.D	03/25/2009	19:18

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62436.D Date Analyzed: 03/23/2009 Time Analyzed: 12:53

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	339842	04.69	407256	07.78	399248	04.56
UPPER LIMIT	679684	05.19	814512	08.28	798496	05.06
LOWER LIMIT	169921	04.19	203628	07.28	199624	04.06
Client Sample						
BKS108811	324038	04.69	390132	07.78	373519	04.57
BKSD108811	277957	04.69	333011	07.78	317703	04.56
BLK108811	305271	04.69	350637	07.78	349822	04.56
OU1-16GW03-0309	237110	04.69	285199	07.78	269220	04.56
OU1-16GW04-0309	238152	04.69	285955	07.78	273856	04.56
OU1-16GW09-0309	236028	04.69	288590	07.78	268312	04.57
OU1-16GW40-0309	257075	04.69	298705	07.78	293870	04.56
OU1-MW48-0309	249646	04.69	286498	07.78	288384	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzen

AREA UPPER LIMIT = +100% of internal standard ar
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62435.D Date Analyzed: 03/23/2009 Time Analyzed: 12:32

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	492839	04.68	584106	07.78	563188	04.56
UPPER LIMIT	985678	05.18	1168212	08.28	1126376	05.06
LOWER LIMIT	246420	04.18	292053	07.28	281594	04.06
Client Sample						
BKS108821	438839	04.68	521407	07.78	493685	04.56
BKSD108821	404890	04.68	484072	07.78	456708	04.55
BLK108821	423226	04.68	486520	07.78	493162	04.56
OU1-16GW41-0309	355233	04.67	411035	07.78	392248	04.55
OU1-16GW42-0309	325667	04.68	371775	07.78	370219	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62471.D Date Analyzed: 03/24/2009 Time Analyzed: 09:22

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	415116	04.68	492903	07.78	468610	04.55
UPPER LIMIT	830232	05.18	985806	08.28	937220	05.05
LOWER LIMIT	207558	04.18	246452	07.28	234305	04.05
Client Sample						
BKS108826	424198	04.68	498687	07.78	477603	04.56
BLK108826	400974	04.68	448334	07.78	449301	04.55
OU1-MW12-0309	353666	04.68	413743	07.78	390864	04.55
OUI-TB02-0309	348862	04.68	411492	07.78	381625	04.55
OUI-TB03-0309	359224	04.68	419603	07.78	401570	04.56
OUI-TB04-0309	340297	04.68	399835	07.78	390295	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzen

AREA UPPER LIMIT = +100% of internal standard ar
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL

Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62505.D Date Analyzed: 03/25/2009 Time Analyzed: 10:36

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	445387	04.68	518669	07.78	497022	04.56
UPPER LIMIT	890774	05.18	1037338	08.28	994044	05.06
LOWER LIMIT	222694	04.18	259335	07.28	248511	04.06
Client Sample						
BKS108829	444552	04.68	509762	07.78	490858	04.55
BLK108829	394803	04.68	442600	07.78	433005	04.56
OU1-16GW02-0309	368175	04.68	420476	07.78	406376	04.55
OU1-16GW02-0309MS	398692	04.68	458004	07.78	438634	04.55
OU1-16GW02-0309MSD	404315	04.68	466769	07.78	445643	04.55
OU1-16GW04-0309DL	363605	04.68	406874	07.78	391134	04.55
OU1-16GW40-0309DL	349728	04.68	408879	07.78	391457	04.56
OU1-16GW40-0309DLMS	385081	04.68	437453	07.78	427475	04.55
OU1-16GW40-0309DLMSD	393098	04.68	451928	07.78	439633	04.55
OU1-16GW42-0309DL	364867	04.68	402164	07.78	408931	04.55

14DFBZ = 1,4-Difluorobenzen

CLBZD5 = Chlorobenzene-d

FBZ = Fluorobenzen

AREA UPPER LIMIT = +100% of internal standard ar

AREA LOWER LIMIT = -50% of internal standard are

RT UPPER LIMIT = +.50 minutes of internal standard RT

RT LOWER LIMIT = -.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asteris

* Values outside of contract required QC limits

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : General Physics Corp.

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903020

Lab File ID: A62205.D BFB Injection Date : 03/10/2009 BFB Injection Time : 07:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.6	(.8)1
174	50.0 - 120.0% of mass 95	79.6	
175	5.0 - 9.0% of mass 174	5.9	(7.4)1
176	95.0 - 101.0% of mass 174	77.5	(97.3)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL01	CAL01	A62207.D	03/10/2009	08:49
2	CAL05	CAL05	A62209.D	03/10/2009	09:30
3	CAL20	CAL20	A62211.D	03/10/2009	11:03
4	CAL50	CAL50	A62213.D	03/10/2009	11:44
5	CAL100	CAL100	A62215.D	03/10/2009	12:49
6	CAL200	CAL200	A62219.D	03/10/2009	14:22
7	BLK108667	BLK108667	A62221.D	03/10/2009	15:35
8	BKS108667	BKS108667	A62223.D	03/10/2009	16:25
9	TB-030409	903020-001-001-1/2	A62225.D	03/10/2009	17:06
10	EFFg-030409	903020-004-003-1/3	A62227.D	03/10/2009	17:46
11	ACU2-030409	903020-005-006-1/3	A62229.D	03/10/2009	18:27
12	ACU1-030409	903020-006-009-1/3	A62231.D	03/10/2009	19:08

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 08:06:42 2009
Response Via : Initial Calibration

Calibration Files
1 =A62207.D 5 =A62209.D 20 =A62211.D 50 =A62213.D 100 =A62215.D
200 =A62219.D

		Compound	1	5	20	50	100	200	Avg	SD	%R
1)	I	Fluorobenzene	----------ISTD----------								
2)		Dichlorodifluo...	0.067	0.085	0.103	0.098		0.090	0.089	15.40	
3)		Chloromethane	0.188	0.181	0.173	0.145	0.159	0.199	0.174	11.27	
4)		Vinyl chloride	0.220	0.190	0.192	0.211	0.214	0.214	0.207	6.19	
5)		Bromomethane	0.218	0.069	0.099	0.078	0.114		0.115	~~51.60~~ r^2=0.9[illegible]	
6)		Chloroethane		0.144	0.142	0.142	0.141	0.157	0.145	4.69	
7)		Trichlorofluor...	0.154	0.245	0.282	0.290	0.307		0.256	~~23.94~~ r^2=0.999	
8)		Ethyl Ether	0.163	0.157	0.165	0.189	0.188	0.206	0.178	10.84	
9)		Freon 113	0.153	0.135	0.174	0.165		0.165	0.158	9.58	
10)		Acrolein		0.037	0.031	0.036	0.035	0.040	0.036	9.22	
11)		Tert-Butyl alc...	0.016	0.021	0.018	0.026	0.021		0.020	18.36	
12)		1,1-Dichloroet...	0.177	0.162	0.167	0.188	0.193	0.202	0.182	8.55	
13)		Iodomethane	0.457	0.111	0.200	0.091	0.247	0.161	0.211	63.20	
14)		Acetonitrile	0.079	0.075	0.093	0.124	0.139	0.138	0.108	~~26.99~~ r^2=0.9[illegible]	
15)		Methylene chlo...	0.375	0.222	0.213	0.224	0.235	0.243	0.252	~~24.26~~ r^2=0.990	
16)		Trans-1,2-dich...	0.209	0.186	0.197	0.221	0.230		0.209	8.57	
17)		Isopropyl ether	0.794	0.717	0.779	0.874	0.894		0.812	8.93	
18)		1,1-Dichloroet...	0.325	0.334	0.368	0.411	0.431		0.374	12.44	
19)		Acetone	0.151	0.086	0.070	0.091	0.084	0.086	0.095	~~30.23~~ r^2=0.999	
20)		Methyl Acetate	0.225	0.217	0.185	0.256		0.048	0.186	~~43.60~~ r^2=0.973	
21)		MTBE	0.473	0.510	0.527	0.610	0.604		0.545	11.02	
22)		Carbon disulfide	1.024	0.568	0.589	0.610	0.643	0.638	0.679	~~25.30~~ r^2=0.999	
23)		Allyl Chloride							0.000	-1.00	
24)		Acrylonitrile		0.059	0.058	0.067	0.062	0.071	0.063	8.81	
25)		Chloroprene	0.352	0.318	0.337	0.354	0.398	0.383	0.357	8.23	
26)	T	n-Heptane	0.229	0.156	0.188	0.173	0.184	0.166	0.183	14.14	
27)		2,2-Dichloropr...	0.284	0.268		0.334	0.340	0.338	0.313	10.86	
28)		Cis-1,2-dichlo...	0.280	0.214		0.253	0.263	0.256	0.253	9.47	
29)		1,2-dichloroet...	0.366		0.223	0.242	0.248	0.260	0.268	21.04	
30)		Propionitrile	0.028	0.029	0.028	0.035	0.031	0.036	0.031	11.14	
31)		Bromochloromet...	0.088	0.091	0.107	0.119	0.122	0.129	0.109	15.51	
32)		Tetrahydrofuran	0.047	0.049	0.049	0.055	0.049	0.059	0.051	9.52	
33)		Chloroform	0.515	0.347	0.353	0.399	0.446	0.498	0.426	16.82	
34)		Cyclohexane	0.560	0.302	0.371	0.358	0.395	0.363	0.392	~~22.47~~ r^2=0.998	
35)		1,1,1-Trichlor...	0.289	0.274	0.307	0.333	0.343	0.363	0.318	10.68	
36)		Carbon tetrach...	0.218	0.240	0.265	0.290	0.310	0.313	0.272	14.18	
37)		Methacrylonitrile	0.141		0.144	0.175	0.176	0.213	0.170	17.12	
38)		Methylcyclohexane	0.360	0.292	0.354	0.333	0.373	0.318	0.338	8.82	
39)		Isobutyl Alcohol	0.011	0.014	0.017	0.016		0.015	0.015	15.42	
40)	SS	1,2-Dichloroet...	0.258	0.262	0.263	0.265	0.265	0.282	0.266	3.13	
41)		1,4-Difluorobenzene	----------ISTD----------								
42)		2-Butanone	0.150	0.152	0.146	0.185	0.166	0.178	0.163	9.84	

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43)		1,1-Dichloropr...	0.270	0.305	0.331	0.370	0.377	0.381	0.339	13.34
44)		Vinyl Acetate	0.369	0.357		0.401	0.394	0.386	0.381	4.81
45)		Benzene	0.924	0.932	1.027	1.118	1.156	1.192	1.058	10.86
46)		1,2-Dichloroet...	0.277	0.295	0.324	0.359	0.360	0.376	0.332	12.02
47)		Trichloroethene	0.269	0.243	0.263	0.278	0.289	0.289	0.272	6.46
48)		1,2-Dichloropr...	0.226	0.230	0.263	0.298	0.305	0.305	0.271	13.65
49)		Methyl methacr...	0.215	0.205	0.171	0.201	0.185	0.202	0.196	8.01
50)		Dibromomethane	0.171	0.151	0.147	0.176	0.172	0.184	0.167	8.78
51)		Bromodichlorom...	0.338	0.315	0.334	0.376	0.376	0.385	0.354	8.07
52)		2-Chloroethylv...	0.027	0.143	0.149	0.165	0.057	0.106	0.108	51.45
53)		Cis-1,3-dichlo...	0.340	0.361		0.469	0.471	0.491	0.427	16.46
54)	SS	Toluene-d8	1.125	1.133	1.141	1.158	1.177	1.218	1.159	2.99
55)		Toluene	0.589	0.599	0.664	0.740	0.763	0.807	0.694	13.02
56)		Trans-1,3-dich...	0.273	0.355		0.433	0.417	0.455	0.387	18.95
57)		Ethyl methacry...	0.347	0.304	0.324	0.365	0.358	0.385	0.347	8.47
58)		1,1,2-Trichlor...	0.183	0.186		0.220	0.217	0.234	0.208	10.71
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)		4-Methyl-2-pen...	0.272	0.284	0.284	0.321	0.289	0.300	0.292	5.85
61)		2-Hexanone	0.175	0.219	0.196	0.238	0.214	0.220	0.210	10.29
62)		Tetrachloroethene	0.228	0.256	0.285	0.305	0.324	0.332	0.288	13.99
63)		1,3-Dichloropr...	0.361	0.399	0.395	0.451	0.441	0.448	0.416	8.74
64)		Dibromochlorom...	0.245	0.291	0.291	0.322	0.324	0.334	0.301	10.93
65)		1,2-Dibromoethane	0.246	0.242	0.248	0.270	0.266	0.271	0.257	5.13
66)		1-Chlorohexane	0.470	0.400	0.409	0.437	0.441	0.437	0.432	5.79
67)		Chlorobenzene	0.748	0.753	0.821	0.906	0.935	0.925	0.848	10.10
68)		1,1,1,2-Tetrac...	0.248	0.259	0.292	0.328	0.342	0.354	0.304	14.65
69)		Ethylbenzene	1.318	1.300	1.394	1.507	1.582	1.607	1.451	9.15
70)		m,p-Xylene	0.510	0.513	0.560	0.618	0.648		0.570	10.86
71)		o-Xylene	0.551	0.505	0.566	0.601	0.624	0.620	0.578	7.95
72)		Xylene (Total)	0.524	0.511	0.564	0.613	0.641	0.662	0.586	10.68
73)		Styrene	0.827	0.857	0.930	1.024	1.062	1.060	0.960	10.80
74)		Bromoform	0.149	0.175	0.176	0.212	0.200	0.209	0.187	13.15
75)		Isopropylbenzene	1.052	1.108	1.196	1.299	1.367	1.346	1.228	10.60
76)	SS	4-Bromofluorob...	0.468	0.466	0.474	0.477	0.477	0.465	0.471	1.16
77)		Bromobenzene	0.300	0.296	0.326	0.356	0.370	0.370	0.336	10.07
78)		1,1,2,2-Tetrac...	0.317	0.314	0.308	0.356	0.339	0.347	0.330	6.00
79)		1,2,3-Trichlor...	0.091	0.103	0.091	0.105	0.098	0.101	0.098	6.04
80)		n-Propylbenzene	1.522	1.538	1.655	1.792	1.853	1.840	1.700	8.79
81)		Trans-1,4-dich...	0.066	0.099	0.064	0.109	0.074	0.088	0.083	~~21.93~~ M2=0.987
82)		2-Chlorotoluene	0.338	0.323	0.352	0.384	0.388	0.378	0.361	7.43
83)		4-Chlorotoluene	0.354	0.335	0.356	0.391	0.407	0.403	0.374	7.96
84)		1,3,5-Trimethy...	1.021	1.048	1.163	1.281	1.369	1.359	1.207	12.65
85)		Tert-butylbenzene	0.855	0.919	1.011	1.122	1.196	1.189	1.049	13.66
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.051	1.091	1.184	1.318	1.418	1.460	1.254	13.63
88)		Sec-Butylbenzene	1.363	1.379	1.554	1.726	1.836	1.785	1.607	12.83
89)		1,3-Dichlorobe...	0.581	0.583	0.663	0.740	0.804	0.864	0.706	16.56
90)		4-Isopropyltol...	1.162	1.185	1.338	1.507	1.641		1.367	15.11
91)		1,4-Dichlorobe...	0.581	0.624	0.679	0.749	0.800	0.815	0.708	13.52
92)	SS	1,2-Dichlorobe...	0.439	0.440	0.457	0.465	0.487	0.486	0.462	4.56
93)		1,2-Dichlorobe...	0.614	0.556		0.688	0.756	0.756	0.674	13.10
94)		n-Butylbenzene	1.300	1.191	1.253	1.396	1.500	1.454	1.349	8.94
95)		1,2-Dibromo-3-...	0.051	0.056	0.051	0.062	0.057	0.063	0.057	9.21
96)		1,2,4-Trichlor...	0.405	0.335	0.363	0.417	0.452	0.481	0.409	13.24

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97)	Hexachlorobuta...	0.192	0.145	0.170	0.197	0.215	0.224	0.190	15.45
98)	Naphthalene	0.824	0.898	0.877	1.102	1.033	1.113	0.975	12.73
99)	1,2,3-Trichlor...	0.323	0.289	0.308	0.362	0.371	0.400	0.342	12.35

(#) = Out of Range

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: GPL LABORATORIES, LLC. Contract:

Lab Code: GPLL Case No.: SAS No.: SDG No.:

Lab File ID: A62206.D BFB Injection Date: 03/10/09

Instrument ID: HP#A BFB Injection Time: 07:55

GC Column: RTX_624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	51.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.1)1
174	50.0 - 120.0% of mass 95	78.5
175	4.0 - 9.0% of mass 174	5.9 (7.5)1
176	93.0 - 101.0% of mass 174	79.2 (100.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL01	CAL01	A62208.D	03/10/09	09:10
02	CAL05	CAL05	A62210.D	03/10/09	09:51
03	CAL20	CAL20	A62212.D	03/10/09	11:24
04	CAL50	CAL50	A62214.D	03/10/09	12:04
05	CAL100	CAL100	A62216.D	03/10/09	13:09
06	CAL200	CAL200	A62220.D	03/10/09	14:43
07	ICV50	BKS/ICV50	A62242.D	03/11/09	12:15

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009
Response Via : Initial Calibration

Calibration Files
1 =A62208.D 5 =A62210.D 20 =A62212.D 50 =A62214.D 100 =A62216.D
200 =A62220.D

		Compound	1	5	20	50	100	200	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluo...	0.120	0.111	0.119	0.086	0.118	0.123	0.113	12.08
3)		Chloromethane	0.130	0.128	0.142	0.106	0.203		0.142	25.94
4)		Vinyl chloride	0.134	0.140	0.199	0.167	0.224	0.235	0.183	~~23.46~~
5)		Bromomethane	0.070	0.054	0.062	0.055	0.080		0.064	17.43
6)		Chloroethane	0.167	0.122	0.140	0.117	0.143	0.163	0.142	14.33
7)		Trichlorofluor...	0.169	0.246	0.270	0.217	0.296		0.239	20.54
8)		Ethyl Ether	0.184	0.185	0.175	0.149	0.191	0.230	0.186	14.22
9)		Freon 113	0.186	0.161	0.176	0.130	0.186	0.179	0.170	12.63
10)		Acrolein		0.055	0.035	0.030	0.038	0.058	0.043	~~28.85~~
11)		Tert-Butyl alc...	0.026	0.015	0.013	0.012	0.015	0.037	0.020	~~50.87~~
12)		1,1-Dichloroet...	0.203	0.187	0.176	0.140	0.189	0.208	0.184	13.36
13)		Iodomethane	0.081	0.109	0.177	0.181	0.257	0.182	0.164	37.82
14)		Acetonitrile	0.068	0.068	0.088	0.088	0.133	0.131	0.096	~~30.66~~
15)		Methylene chlo...	0.408	0.270	0.218	0.182	0.225	0.236	0.257	~~30.95~~
16)		Trans-1,2-dich...	0.232	0.181	0.191	0.166	0.217	0.212	0.200	12.32
17)		Isopropyl ether	0.850		0.767	0.665	0.845	0.895	0.805	11.26
18)		1,1-Dichloroet...	0.342	0.335	0.343	0.313	0.402	0.401	0.356	10.34
19)		Acetone	0.172	0.075	0.062	0.056	0.068	0.117	0.092	~~48.84~~
20)		Methyl Acetate	0.271	0.158	0.133	0.151	0.158	0.384	0.209	~~47.13~~
21)		MTBE	0.578	0.576	0.560	0.483	0.627	0.649	0.579	10.01
22)		Carbon disulfide	1.523	0.763	0.587	0.470	0.611	0.629	0.764	~~50.20~~
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile	0.103	0.070	0.061	0.054	0.067	0.097	0.075	~~26.82~~
25)		Chloroprene	0.379	0.349		0.270	0.372	0.333	0.341	12.75
26)	T	n-Heptane	0.233	0.164	0.181	0.154	0.163	0.148	0.174	17.86
27)		2,2-Dichloropr...	0.302	0.253	0.292	0.265	0.324	0.309	0.291	9.30
28)		Cis-1,2-dichlo...	0.289	0.221	0.221	0.207	0.248	0.241	0.238	12.28
29)		1,2-dichloroet...		0.211	0.214	0.190	0.235	0.236	0.217	8.87
30)		Propionitrile	0.043	0.032	0.027	0.027	0.030		0.032	20.48
31)		Bromochloromet...	0.120		0.106	0.105	0.120	0.128	0.115	8.57
32)		Tetrahydrofuran	0.064	0.054	0.051	0.050	0.056	0.082	0.059	20.48
33)		Chloroform	0.488	0.356	0.351	0.347	0.418	0.460	0.403	15.18
34)		Cyclohexane	0.624	0.344	0.365	0.320	0.372	0.360	0.398	~~28.35~~
35)		1,1,1-Trichlor...	0.302	0.283	0.291	0.299	0.329	0.339	0.307	7.22
36)		Carbon tetrach...	0.150	0.170	0.251	0.261	0.291	0.270	0.232	~~24.84~~
37)		Methylcyclohexane	0.373	0.314	0.345	0.327	0.363	0.328	0.342	6.72
38)		Isobutyl Alcohol	0.021	0.014	0.017	0.014	0.015	0.014	0.016	16.89
39)	SS	1,2-Dichloroet...	0.274	0.278	0.271	0.267	0.271	0.296	0.276	3.84
40)		1,4-Difluorobenzene	ISTD							
41)		2-Butanone	0.276	0.183	0.150	0.139	0.165	0.234	0.191	~~27.74~~
42)		1,1-Dichloropr...	0.318	0.297	0.314	0.325	0.352	0.348	0.326	6.44

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Method File : A8260C2_031009.M
Title : 8260

43)		Vinyl Acetate	0.355	0.307		0.299	0.425	0.399	0.357	15.52
44)		Benzene	1.162	1.016	0.997	1.042	1.084	1.166	1.078	6.77
45)		1,2-Dichloroet...	0.321	0.321	0.325	0.338	0.359	0.378	0.340	6.86
46)		Trichloroethene	0.302	0.290	0.250	0.265	0.269	0.282	0.276	6.77
47)		1,2-Dichloropr...	0.271	0.259	0.255	0.291	0.292	0.314	0.280	8.00
48)		Methyl methacr...	0.306	0.199	0.189	0.198	0.197	0.239	0.221	~~20.32~~ r2=0.99
49)		Dibromomethane	0.151	0.152	0.164	0.176	0.180	0.198	0.170	10.64
50)		Bromodichlorom...	0.384	0.294	0.339	0.371	0.375	0.400	0.361	10.59
51)		2-Chloroethylv...	0.166	0.177	0.173	0.188	0.198	0.226	0.188	11.62
52)		Cis-1,3-dichlo...	0.282	0.339		0.457	0.463	0.499	0.408	~~22.73~~ r2=0.99
53)	SS	Toluene-d8	1.145	1.137	1.147	0.834	1.137	1.258	1.110	12.88
54)		Toluene	0.558	0.576	0.613	0.509	0.688		0.589	11.38
55)		Trans-1,3-dich...	0.300		0.366	0.310	0.411	0.476	0.372	19.64
56)		Ethyl methacry...	0.350	0.351	0.329	0.276		0.437	0.349	16.62
57)		1,1,2-Trichlor...	0.267	0.199	0.198	0.162	0.215		0.208	18.35
58)	I	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
59)		4-Methyl-2-pen...	0.448	0.306	0.309	0.325	0.335	0.376	0.350	15.51
60)		2-Hexanone	0.310	0.216	0.205	0.233	0.226	0.248	0.240	15.66
61)		Tetrachloroethene	0.213	0.252	0.268	0.281	0.295	0.277	0.264	11.02
62)		1,3-Dichloropr...	0.377	0.381	0.401	0.426	0.425	0.421	0.405	5.47
63)		Dibromochlorom...	0.220	0.243	0.272	0.303	0.315	0.315	0.278	14.36
64)		1,2-Dibromoethane	0.213	0.229	0.251	0.272	0.268	0.275	0.251	10.06
65)		1-Chlorohexane	0.529	0.403	0.371	0.396	0.400	0.392	0.415	13.76
66)		Chlorobenzene	0.727	0.736	0.798	0.865	0.892	0.909	0.821	9.61
67)		1,1,1,2-Tetrac...	0.206		0.283	0.330	0.345	0.362	0.305	~~20.59~~ r2=0.99
68)		Ethylbenzene	1.250		1.301	1.441	1.467	1.554	1.403	8.89
69)		m,p-Xylene	0.497		0.533	0.593	0.610	0.662	0.579	11.23
70)		o-Xylene	0.464	0.535	0.537	0.607	0.623	0.660	0.571	12.59
71)		Xylene (Total)	0.486	0.528	0.536	0.601	0.614	0.670	0.573	11.81
72)		Styrene	0.844	0.875	0.906	1.015	1.024	1.094	0.959	10.27
73)		Bromoform	0.116	0.146	0.183	0.211	0.219	0.245	0.187	~~25.82~~ r2=0.99
74)		Isopropylbenzene	1.112	1.127	1.193	1.321	1.373	1.484	1.268	11.70
75)	SS	4-Bromofluorob...	0.493	0.497	0.482	0.500	0.491	0.514	0.496	2.12
76)		Bromobenzene	0.331		0.329	0.375	0.368	0.409	0.362	9.18
77)		1,1,2,2-Tetrac...	0.409	0.350	0.353	0.390	0.391	0.432	0.387	8.21
78)		1,2,3-Trichlor...	0.110	0.118	0.106	0.114	0.114	0.132	0.116	7.90
79)		n-Propylbenzene	1.491	1.574	1.624	1.835	1.809	1.975	1.718	10.71
80)		Trans-1,4-dich...	0.090	0.091	0.100	0.116	0.119	0.143	0.110	18.56
81)		2-Chlorotoluene	0.318	0.344	0.342	0.399	0.389	0.419	0.368	10.71
82)		4-Chlorotoluene	0.338		0.369	0.414	0.404	0.433	0.392	9.73
83)		1,3,5-Trimethy...	1.052		1.205	1.397	1.408	1.590	1.331	15.55
84)		Tert-butylbenzene	0.951		1.060	1.235	1.263	1.433	1.188	15.76
85)		Pentachloroethane							0.000	-1.00
86)		1,2,4-Trimethy...	1.269		1.244	1.445	1.449	1.671	1.416	12.12
87)		Sec-Butylbenzene	1.559		1.670	1.913	1.912	2.147	1.840	12.53
88)		1,3-Dichlorobe...	0.718		0.695	0.816	0.814	0.982	0.805	14.06
89)		4-Isopropyltol...	1.343	1.326	1.420	1.664	1.697	2.024	1.579	17.07
90)		1,4-Dichlorobe...	0.716		0.720	0.833	0.822	0.928	0.804	11.04
91)	SS	1,2-Dichlorobe...	0.527	0.540	0.530	0.544	0.532	0.576	0.541	3.33
92)		1,2-Dichlorobe...	0.720		0.691	0.789	0.783	0.884	0.773	9.59
93)		n-Butylbenzene	1.464	1.337	1.352	1.543	1.549	1.732	1.496	9.82
94)		1,2-Dibromo-3-...	0.065	0.072	0.069	0.079	0.078	0.096	0.077	14.47
95)		1,2,4-Trichlor...	0.544		0.445	0.520	0.509	0.627	0.529	12.45
96)		Hexachlorobuta...	0.281		0.192	0.208	0.221	0.274	0.235	17.09

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

97)	Naphthalene	1.475	1.372	1.280	1.433	1.414	1.706	1.447	9.91
98)	1,2,3-Trichlor...	0.492		0.401	0.469	0.454	0.549	0.473	11.47

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	109	0.00
2		Dichlorodifluoromethane	0.089	0.089	0.0	99	0.00
3		Chloromethane	0.174	0.140	19.5	105	0.00
4		Vinyl chloride	0.207	0.170	17.9	88	0.00
5		Bromomethane	0.115	0.360	-213.0#	502#	0.00
6		Chloroethane	0.145	0.168	-15.9	129	0.00
7		Trichlorofluoromethane	0.256	0.272	-6.3	102	0.00
8		Ethyl Ether	0.178	0.159	10.7	92	0.00
9		Freon 113	0.158	0.174	-10.1	115	0.00
10		Acrolein	0.036	0.028	22.2#	86	0.00
11		Tert-Butyl alcohol	0.020	0.018	10.0	74	0.00
12		1,1-Dichloroethene	0.182	0.166	8.8	96	0.00
13		Iodomethane	0.211	0.258	-22.3#	309#	0.00
14		Acetonitrile	0.108	0.153	-41.7#	135	0.00
15		Methylene chloride	0.252	0.207	17.9	100	0.00
16		Trans-1,2-dichloroethene	0.209	0.186	11.0	92	0.00
17		Isopropyl ether	0.812	0.760	6.4	95	0.00
18		1,1-Dichloroethane	0.374	0.376	-0.5	100	0.00
19		Acetone	0.095	0.063	33.7#	75	0.00
20		Methyl Acetate	0.186	0.179	3.8	76	0.00
21		MTBE	0.545	0.548	-0.6	98	0.00
22		Carbon disulfide	0.679	0.519	23.6#	93	0.00
23		Allyl Chloride	0.000	0.000	0.0	133	0.00
24		Acrylonitrile	0.063	0.060	4.8	99	0.00
25		Chloroprene	0.357	0.314	12.0	97	0.00
26	T	n-Heptane	0.183	0.009	95.1#	6#	0.12
27		2,2-Dichloropropane	0.313	0.296	5.4	97	0.00
28		Cis-1,2-dichloroethene	0.253	0.225	11.1	97	0.00
29		1,2-dichloroethene(total)	0.268	0.212	20.9#	95	0.82#
30		Propionitrile	0.031	0.027	12.9	82	0.00
31		Bromochloromethane	0.109	0.123	-12.8	113	0.00
32		Tetrahydrofuran	0.051	0.045	11.8	89	0.00
33		Chloroform	0.426	0.410	3.8	112	0.00
34		Cyclohexane	0.392	0.323	17.6	98	0.00
35		1,1,1-Trichloroethane	0.318	0.323	-1.6	105	0.00
36		Carbon tetrachloride	0.272	0.288	-5.9	108	0.00
37		Methacrylonitrile	0.170	0.156	8.2	97	0.00
38		Methylcyclohexane	0.338	0.328	3.0	107	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	61	-0.18
40	SS	1,2-Dichloroethane-d4	0.266	0.275	-3.4	113	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	117	0.00
42		2-Butanone	0.163	0.124	23.9#	78	0.00
43		1,1-Dichloropropene	0.339	0.308	9.1	97	0.00
44		Vinyl Acetate	0.381	0.271	28.9#	79	0.00
45		Benzene	1.058	0.947	10.5	99	0.00
46		1,2-Dichloroethane	0.332	0.293	11.7	95	0.00
47		Trichloroethene	0.272	0.233	14.3	97	0.00
48		1,2-Dichloropropane	0.271	0.247	8.9	96	0.00
49		Methyl methacrylate	0.196	0.188	4.1	109	0.00
50		Dibromomethane	0.167	0.174	-4.2	115	0.00
51		Bromodichloromethane	0.354	0.394	-11.3	122	0.00
52		2-Chloroethylvinyl ether	0.108	0.045	58.3#	32#	0.00
53		Cis-1,3-dichloropropene	0.427	0.468	-9.6	116	0.00
54	SS	Toluene-d8	1.159	1.393	-20.2#	140	0.00
55		Toluene	0.694	0.783	-12.8	123	0.00
56		Trans-1,3-dichloropropene	0.387	0.411	-6.2	111	0.00
57		Ethyl methacrylate	0.347	0.384	-10.7	123	0.00
58		1,1,2-Trichloroethane	0.208	0.232	-11.5	123	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	146	0.00
60		4-Methyl-2-pentanone	0.292	0.238	18.5	108	0.00
61		2-Hexanone	0.210	0.168	20.0	103	0.00
62		Tetrachloroethene	0.288	0.307	-6.6	146	0.00
63		1,3-Dichloropropane	0.416	0.385	7.5	124	0.00
64		Dibromochloromethane	0.301	0.293	2.7	132	0.00
65		1,2-Dibromoethane	0.257	0.226	12.1	122	0.00
66		1-Chlorohexane	0.432	0.369	14.6	123	0.00
67		Chlorobenzene	0.848	0.814	4.0	131	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.304	0.0	135	0.00
69		Ethylbenzene	1.451	1.324	8.8	128	0.00
70		m,p-Xylene	0.570	0.557	2.3	131	0.00
71		o-Xylene	0.578	0.535	7.4	130	0.00
72		Xylene (Total)	0.586	0.551	6.0	131	0.00
73		Styrene	0.960	0.902	6.0	128	0.00
74		Bromoform	0.187	0.189	-1.1	130	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.178	4.1	132	0.00
76	SS	4-Bromofluorobenzene	0.471	0.478	-1.5	146	0.00
77		Bromobenzene	0.336	0.355	-5.7	145	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.293	11.2	120	0.00
79		1,2,3-Trichloropropane	0.098	0.092	6.1	128	0.00
80		n-Propylbenzene	1.700	1.597	6.1	130	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.057	31.3#	76	0.00
82		2-Chlorotoluene	0.361	0.359	0.6	136	0.00
83		4-Chlorotoluene	0.374	0.380	-1.6	142	0.00
84		1,3,5-Trimethylbenzene	1.207	1.154	4.4	131	0.00
85		Tert-butylbenzene	1.049	1.054	-0.5	137	0.00
86		Pentachloroethane	0.000	0.000	0.0	139	0.00
87		1,2,4-Trimethylbenzene	1.254	1.211	3.4	134	0.00
88		Sec-Butylbenzene	1.607	1.579	1.7	133	0.00
89		1,3-Dichlorobenzene	0.706	0.739	-4.7	145	0.00
90		4-Isopropyltoluene	1.367	1.412	-3.3	136	0.00
91		1,4-Dichlorobenzene	0.708	0.738	-4.2	143	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.514	-11.3	161#	0.00
93		1,2-Dichlorobenzene	0.674	0.680	-0.9	144	0.00
94		n-Butylbenzene	1.349	1.235	8.5	129	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.048	15.8	114	0.00
96		1,2,4-Trichlorobenzene	0.409	0.418	-2.2	146	0.00
97		Hexachlorobutadiene	0.190	0.203	-6.8	150	0.00
98		Naphthalene	0.975	0.927	4.9	122	0.00
99		1,2,3-Trichlorobenzene	0.342	0.358	-4.7	144	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:01:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	96	0.00
2		Dichlorodifluoromethane	0.089	0.086	3.4	85	0.00
3		Chloromethane	0.174	0.145	16.7	96	0.00
4		Vinyl chloride	0.207	0.173	16.4	79	0.00
5		Bromomethane	0.115	0.307	-167.0#	377#	0.00
6		Chloroethane	0.145	0.143	1.4	96	0.00
7		Trichlorofluoromethane	0.256	0.304	-18.7	101	0.00
8		Ethyl Ether	0.178	0.153	14.0	78	0.00
9		Freon 113	0.158	0.171	-8.2	100	0.00
10		Acrolein	0.036	0.029	19.4	78	0.00
11		Tert-Butyl alcohol	0.020	0.018	10.0	66	0.00
12		1,1-Dichloroethene	0.182	0.145	20.3#	74	0.00
13		Iodomethane	0.211	0.286	-35.5#	302#	0.00
14		Acetonitrile	0.108	0.128	-18.5	100	0.00
15		Methylene chloride	0.252	0.198	21.4#	85	0.00
16		Trans-1,2-dichloroethene	0.209	0.177	15.3	77	0.00
17		Isopropyl ether	0.812	0.745	8.3	82	0.00
18		1,1-Dichloroethane	0.374	0.360	3.7	84	0.00
19		Acetone	0.095	0.062	34.7#	66	0.00
20		Methyl Acetate	0.186	0.191	-2.7	72	0.00
21		MTBE	0.545	0.559	-2.6	88	0.00
22		Carbon disulfide	0.679	0.362	46.7#	57	0.00
23		Allyl Chloride	0.000	0.000	0.0	96	0.00
24		Acrylonitrile	0.063	0.061	3.2	88	0.00
25		Chloroprene	0.357	0.283	20.7#	77	0.00
26	T	n-Heptane	0.183	0.007	96.2#	4#	0.11
27		2,2-Dichloropropane	0.313	0.290	7.3	84	0.00
28		Cis-1,2-dichloroethene	0.253	0.215	15.0	82	0.00
29		1,2-dichloroethene(total)	0.268	0.202	24.6#	80	0.82#
30		Propionitrile	0.031	0.027	12.9	73	0.00
31		Bromochloromethane	0.109	0.127	-16.5	103	0.00
32		Tetrahydrofuran	0.051	0.046	9.8	79	0.00
33		Chloroform	0.426	0.403	5.4	97	0.00
34		Cyclohexane	0.392	0.278	29.1#	74	0.00
35		1,1,1-Trichloroethane	0.318	0.313	1.6	90	0.00
36		Carbon tetrachloride	0.272	0.287	-5.5	95	0.00
37		Methacrylonitrile	0.170	0.161	5.3	88	0.00
38		Methylcyclohexane	0.338	0.283	16.3	81	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:01:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.010	33.3#	58	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.283	-6.4	103	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
42		2-Butanone	0.163	0.128	21.5#	73	0.00
43		1,1-Dichloropropene	0.339	0.281	17.1	80	0.00
44		Vinyl Acetate	0.381	0.239	37.3#	63	0.00
45		Benzene	1.058	0.834	21.2#	79	0.00
46		1,2-Dichloroethane	0.332	0.303	8.7	89	0.00
47		Trichloroethene	0.272	0.222	18.4	84	0.00
48		1,2-Dichloropropane	0.271	0.227	16.2	80	0.00
49		Methyl methacrylate	0.196	0.153	21.9#	80	0.00
50		Dibromomethane	0.167	0.153	8.4	91	0.00
51		Bromodichloromethane	0.354	0.345	2.5	97	0.00
52		2-Chloroethylvinyl ether	0.108	0.044	59.3#	28#	0.00
53		Cis-1,3-dichloropropene	0.427	0.433	-1.4	97	0.00
54	SS	Toluene-d8	1.159	1.319	-13.8	120	0.00
55		Toluene	0.694	0.712	-2.6	101	0.00
56		Trans-1,3-dichloropropene	0.387	0.377	2.6	92	0.00
57		Ethyl methacrylate	0.347	0.350	-0.9	101	0.00
58		1,1,2-Trichloroethane	0.208	0.213	-2.4	102	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	129	0.00
60		4-Methyl-2-pentanone	0.292	0.240	17.8	96	0.00
61		2-Hexanone	0.210	0.165	21.4#	90	0.00
62		Tetrachloroethene	0.288	0.294	-2.1	125	0.00
63		1,3-Dichloropropane	0.416	0.372	10.6	106	0.00
64		Dibromochloromethane	0.301	0.285	5.3	114	0.00
65		1,2-Dibromoethane	0.257	0.229	10.9	110	0.00
66		1-Chlorohexane	0.432	0.330	23.6#	98	0.00
67		Chlorobenzene	0.848	0.778	8.3	111	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.309	-1.6	122	0.00
69		Ethylbenzene	1.451	1.229	15.3	105	0.00
70		m,p-Xylene	0.570	0.521	8.6	109	0.00
71		o-Xylene	0.578	0.517	10.6	111	0.00
72		Xylene (Total)	0.586	0.521	11.1	110	0.00
73		Styrene	0.960	0.862	10.2	109	0.00
74		Bromoform	0.187	0.188	-0.5	114	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:01:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.152	6.2	115	0.00
76	SS	4-Bromofluorobenzene	0.471	0.471	0.0	128	0.00
77		Bromobenzene	0.336	0.359	-6.8	130	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.289	12.4	105	0.00
79		1,2,3-Trichloropropane	0.098	0.090	8.2	112	0.00
80		n-Propylbenzene	1.700	1.499	11.8	108	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.054	34.9#	63	0.00
82		2-Chlorotoluene	0.361	0.360	0.3	121	0.00
83		4-Chlorotoluene	0.374	0.365	2.4	121	0.00
84		1,3,5-Trimethylbenzene	1.207	1.133	6.1	114	0.00
85		Tert-butylbenzene	1.049	1.014	3.3	117	0.00
86		Pentachloroethane	0.000	0.000	0.0	123	0.00
87		1,2,4-Trimethylbenzene	1.254	1.164	7.2	114	0.00
88		Sec-Butylbenzene	1.607	1.525	5.1	114	0.00
89		1,3-Dichlorobenzene	0.706	0.755	-6.9	132	0.00
90		4-Isopropyltoluene	1.367	1.404	-2.7	120	0.00
91		1,4-Dichlorobenzene	0.708	0.761	-7.5	131	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.533	-15.4	148	0.00
93		1,2-Dichlorobenzene	0.674	0.698	-3.6	131	0.00
94		n-Butylbenzene	1.349	1.174	13.0	109	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.050	12.3	105	0.00
96		1,2,4-Trichlorobenzene	0.409	0.438	-7.1	136	0.00
97		Hexachlorobutadiene	0.190	0.211	-11.1	139	0.00
98		Naphthalene	0.975	0.974	0.1	114	0.00
99		1,2,3-Trichlorobenzene	0.342	0.376	-9.9	134	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 15:47:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	81	0.00
2		Dichlorodifluoromethane	0.113	0.110	2.7	104	0.00
3		Chloromethane	0.142	0.152	-7.0	117	0.00
4		Vinyl chloride	0.183	0.201	-9.8	98	0.00
5		Bromomethane	0.064	0.076	-18.7	113	0.00
6		Chloroethane	0.142	0.125	12.0	87	0.00
7		Trichlorofluoromethane	0.239	0.288	-20.5	108	0.00
8		Ethyl Ether	0.186	0.176	5.4	96	0.00
9		Freon 113	0.170	0.185	-8.8	116	0.00
10		Acrolein	0.043	0.035	18.6	94	0.01
11		Tert-Butyl alcohol	0.020	0.013	35.0#	92	0.00
12		1,1-Dichloroethene	0.184	0.183	0.5	106	0.00
13		Iodomethane	0.164	0.298	-81.7#	134	0.00
14		Acetonitrile	0.096	0.143	-49.0#	131	0.00
15		Methylene chloride	0.257	0.215	16.3	96	0.00
16		Trans-1,2-dichloroethene	0.200	0.200	0.0	98	0.00
17		Isopropyl ether	0.805	0.774	3.9	95	0.00
18		1,1-Dichloroethane	0.356	0.383	-7.6	99	0.00
19		Acetone	0.092	0.064	30.4#	92	0.00
20		Methyl Acetate	0.209	0.143	31.6#	77	0.00
21		MTBE	0.579	0.645	-11.4	109	0.00
22		Carbon disulfide	0.764	0.522	31.7#	90	0.00
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.071	5.3	107	0.00
25		Chloroprene	0.341	0.311	8.8	93	0.00
26	T	n-Heptane	0.174	0.008	95.4#	4#	0.12
27		2,2-Dichloropropane	0.291	0.291	0.0	89	0.00
28		Cis-1,2-dichloroethene	0.238	0.230	3.4	90	0.00
29		1,2-dichloroethene(total)	0.217	0.218	-0.5	94	-0.82#
30		Propionitrile	0.032	0.027	15.6	83	0.00
31		Bromochloromethane	0.115	0.129	-12.2	100	0.00
32		Tetrahydrofuran	0.059	0.052	11.9	83	0.00
33		Chloroform	0.403	0.404	-0.2	95	0.00
34		Cyclohexane	0.398	0.347	12.8	88	0.00
35		1,1,1-Trichloroethane	0.307	0.326	-6.2	89	0.00
36		Carbon tetrachloride	0.232	0.306	-31.9#	95	0.00
37		Methylcyclohexane	0.342	0.335	2.0	83	0.00
38		Isobutyl Alcohol	0.016	0.007	56.3#	41#	-0.18

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 15:47:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.285	-3.3	87	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
41		2-Butanone	0.191	0.143	25.1#	86	0.00
42		1,1-Dichloropropene	0.326	0.315	3.4	81	0.00
43		Vinyl Acetate	0.357	0.291	18.5	82	0.00
44		Benzene	1.078	0.945	12.3	76	0.00
45		1,2-Dichloroethane	0.340	0.327	3.8	81	0.00
46		Trichloroethene	0.276	0.245	11.2	78	0.00
47		1,2-Dichloropropane	0.280	0.260	7.1	75	0.00
48		Methyl methacrylate	0.221	0.179	19.0	76	0.00
49		Dibromomethane	0.170	0.171	-0.6	82	0.00
50		Bromodichloromethane	0.361	0.331	8.3	75	0.00
51		2-Chloroethylvinyl ether	0.188	0.158	16.0	71	0.00
52		Cis-1,3-dichloropropene	0.408	0.380	6.9	70	0.00
53	SS	Toluene-d8	1.110	1.110	0.0	112	0.00
54		Toluene	0.589	0.606	-2.9	100	0.00
55		Trans-1,3-dichloropropene	0.372	0.348	6.5	94	0.00
56		Ethyl methacrylate	0.349	0.323	7.4	98	0.00
57		1,1,2-Trichloroethane	0.208	0.193	7.2	100	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	136	0.00
59		4-Methyl-2-pentanone	0.350	0.251	28.3#	105	0.00
60		2-Hexanone	0.240	0.189	21.2	111	0.00
61		Tetrachloroethene	0.264	0.251	4.9	122	0.00
62		1,3-Dichloropropane	0.405	0.388	4.2	124	0.00
63		Dibromochloromethane	0.278	0.274	1.4	123	0.02
64		1,2-Dibromoethane	0.251	0.244	2.8	122	0.00
65		1-Chlorohexane	0.415	0.361	13.0	124	0.00
66		Chlorobenzene	0.821	0.810	1.3	128	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.326	-6.9	135	0.00
68		Ethylbenzene	1.403	1.322	5.8	125	0.00
69		m,p-Xylene	0.579	0.560	3.3	129	0.00
70		o-Xylene	0.571	0.565	1.1	127	0.00
71		Xylene (Total)	0.573	0.563	1.7	128	0.00
72		Styrene	0.959	0.930	3.0	125	0.00
73		Bromoform	0.187	0.204	-9.1	132	0.00
74		Isopropylbenzene	1.268	1.279	-0.9	132	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 15:47:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.521	-5.0	142	0.00
76		Bromobenzene	0.362	0.387	-6.9	141	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.367	5.2	128	0.00
78		1,2,3-Trichloropropane	0.116	0.113	2.6	136	0.00
79		n-Propylbenzene	1.718	1.684	2.0	125	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.114	-3.6	134	0.00
81		2-Chlorotoluene	0.368	0.400	-8.7	137	0.00
82		4-Chlorotoluene	0.392	0.421	-7.4	139	0.00
83		1,3,5-Trimethylbenzene	1.331	1.318	1.0	129	0.00
84		Tert-butylbenzene	1.188	1.252	-5.4	138	0.00
85		Pentachloroethane	0.000	0.000	0.0	138	0.00
86		1,2,4-Trimethylbenzene	1.416	1.407	0.6	133	0.00
87		Sec-Butylbenzene	1.840	1.850	-0.5	132	0.00
88		1,3-Dichlorobenzene	0.805	0.886	-10.1	148	0.00
89		4-Isopropyltoluene	1.579	1.715	-8.6	141	0.00
90		1,4-Dichlorobenzene	0.804	0.885	-10.1	145	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.618	-14.2	155#	0.00
92		1,2-Dichlorobenzene	0.773	0.839	-8.5	145	0.00
93		n-Butylbenzene	1.496	1.479	1.1	131	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.071	7.8	123	0.00
95		1,2,4-Trichlorobenzene	0.529	0.568	-7.4	149	0.00
96		Hexachlorobutadiene	0.235	0.241	-2.6	158#	0.00
97		Naphthalene	1.447	1.514	-4.6	144	0.00
98		1,2,3-Trichlorobenzene	0.473	0.507	-7.2	148	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00
2		Dichlorodifluoromethane	0.089	0.089	0.0	82	0.00
3		Chloromethane	0.174	0.153	12.1	96	0.00
4		Vinyl chloride	0.207	0.189	8.7	81	0.00
5		Bromomethane	0.115	0.335	-191.3#	388#	0.00
6		Chloroethane	0.145	0.135	6.9	86	0.00
7		Trichlorofluoromethane	0.256	0.297	-16.0	93	0.00
8		Ethyl Ether	0.178	0.169	5.1	81	0.00
9		Freon 113	0.158	0.196	-24.1#	108	0.00
10		Acrolein	0.036	0.030	16.7	75	0.00
11		Tert-Butyl alcohol	0.020	0.018	10.0	61	0.00
12		1,1-Dichloroethene	0.182	0.176	3.3	85	0.00
13		Iodomethane	0.211	0.334	-58.3#	332#	0.00
14		Acetonitrile	0.108	0.160	-48.1#	117	0.00
15		Methylene chloride	0.252	0.212	15.9	86	0.00
16		Trans-1,2-dichloroethene	0.209	0.203	2.9	83	0.00
17		Isopropyl ether	0.812	0.778	4.2	81	0.00
18		1,1-Dichloroethane	0.374	0.407	-8.8	90	0.00
19		Acetone	0.095	0.066	30.5#	65	0.00
20		Methyl Acetate	0.186	0.179	3.8	63	0.00
21		MTBE	0.545	0.573	-5.1	85	0.00
22		Carbon disulfide	0.679	0.526	22.5#	78	0.00
23		Allyl Chloride	0.000	0.000	0.0	114	0.00
24		Acrylonitrile	0.063	0.062	1.6	83	0.00
25		Chloroprene	0.357	0.334	6.4	85	0.00
26	T	n-Heptane	0.183	0.009	95.1#	5#	0.11
27		2,2-Dichloropropane	0.313	0.321	-2.6	87	0.00
28		Cis-1,2-dichloroethene	0.253	0.236	6.7	84	0.00
29		1,2-dichloroethene(total)	0.268	0.226	15.7	84	0.00
30		Propionitrile	0.031	0.028	9.7	73	0.00
31		Bromochloromethane	0.109	0.134	-22.9#	102	0.00
32		Tetrahydrofuran	0.051	0.044	13.7	72	0.00
33		Chloroform	0.426	0.436	-2.3	99	0.00
34		Cyclohexane	0.392	0.342	12.8	86	0.00
35		1,1,1-Trichloroethane	0.318	0.350	-10.1	95	0.00
36		Carbon tetrachloride	0.272	0.319	-17.3	99	0.00
37		Methacrylonitrile	0.170	0.165	2.9	86	0.00
38		Methylcyclohexane	0.338	0.344	-1.8	93	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	51	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.283	-6.4	97	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
42		2-Butanone	0.163	0.134	17.8	71	0.00
43		1,1-Dichloropropene	0.339	0.328	3.2	87	0.00
44		Vinyl Acetate	0.381	0.304	20.2#	75	0.00
45		Benzene	1.058	0.971	8.2	85	0.00
46		1,2-Dichloroethane	0.332	0.319	3.9	87	0.00
47		Trichloroethene	0.272	0.256	5.9	90	0.00
48		1,2-Dichloropropane	0.271	0.256	5.5	84	0.00
49		Methyl methacrylate	0.196	0.164	16.3	80	0.00
50		Dibromomethane	0.167	0.166	0.6	93	0.00
51		Bromodichloromethane	0.354	0.388	-9.6	101	0.00
52		2-Chloroethylvinyl ether	0.108	0.048	55.6#	29#	0.00
53		Cis-1,3-dichloropropene	0.427	0.486	-13.8	102	0.00
54	SS	Toluene-d8	1.159	1.359	-17.3	115	0.00
55		Toluene	0.694	0.825	-18.9	109	0.00
56		Trans-1,3-dichloropropene	0.387	0.421	-8.8	96	0.00
57		Ethyl methacrylate	0.347	0.384	-10.7	103	0.00
58		1,1,2-Trichloroethane	0.208	0.238	-14.4	106	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	123	0.00
60		4-Methyl-2-pentanone	0.292	0.243	16.8	93	0.00
61		2-Hexanone	0.210	0.168	20.0	87	0.00
62		Tetrachloroethene	0.288	0.327	-13.5	132	0.00
63		1,3-Dichloropropane	0.416	0.391	6.0	106	0.00
64		Dibromochloromethane	0.301	0.307	-2.0	117	0.00
65		1,2-Dibromoethane	0.257	0.238	7.4	108	0.00
66		1-Chlorohexane	0.432	0.379	12.3	106	0.00
67		Chlorobenzene	0.848	0.850	-0.2	115	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.332	-9.2	124	0.00
69		Ethylbenzene	1.451	1.351	6.9	110	0.00
70		m,p-Xylene	0.570	0.578	-1.4	115	0.00
71		o-Xylene	0.578	0.562	2.8	115	0.00
72		Xylene (Total)	0.586	0.573	2.2	115	0.00
73		Styrene	0.960	0.958	0.2	115	0.00
74		Bromoform	0.187	0.196	-4.8	114	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.254	-2.1	119	0.00
76	SS	4-Bromofluorobenzene	0.471	0.468	0.6	120	0.00
77		Bromobenzene	0.336	0.378	-12.5	131	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.299	9.4	103	0.00
79		1,2,3-Trichloropropane	0.098	0.095	3.1	112	0.00
80		n-Propylbenzene	1.700	1.660	2.4	114	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.065	21.7#	73	0.00
82		2-Chlorotoluene	0.361	0.384	-6.4	123	0.00
83		4-Chlorotoluene	0.374	0.406	-8.6	128	0.00
84		1,3,5-Trimethylbenzene	1.207	1.236	-2.4	119	0.00
85		Tert-butylbenzene	1.049	1.127	-7.4	123	0.00
86		Pentachloroethane	0.000	0.000	0.0	128	0.00
87		1,2,4-Trimethylbenzene	1.254	1.311	-4.5	122	0.00
88		Sec-Butylbenzene	1.607	1.698	-5.7	121	0.00
89		1,3-Dichlorobenzene	0.706	0.819	-16.0	136	0.00
90		4-Isopropyltoluene	1.367	1.573	-15.1	128	0.00
91		1,4-Dichlorobenzene	0.708	0.810	-14.4	133	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.535	-15.8	141	0.00
93		1,2-Dichlorobenzene	0.674	0.758	-12.5	135	0.00
94		n-Butylbenzene	1.349	1.330	1.4	117	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.049	14.0	97	0.00
96		1,2,4-Trichlorobenzene	0.409	0.463	-13.2	136	0.00
97		Hexachlorobutadiene	0.190	0.223	-17.4	139	0.00
98		Naphthalene	0.975	0.977	-0.2	109	0.00
99		1,2,3-Trichlorobenzene	0.342	0.382	-11.7	129	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-081-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.2	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-096-1/3
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	12	
14797-55-8	Nitrate	0.32	
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-096-1/3MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	22	
14797-55-8	Nitrate	1.2	
7727-37-9	Nitrite	1.3	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-075-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	13	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-076-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	34	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-077-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	9.6	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-078-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	13	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-099-1/3
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	30	
14797-55-8	Nitrate	0.11	
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-099-1/3MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	34	
14797-55-8	Nitrate	1.0	
7727-37-9	Nitrite	1.3	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-079-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	9.0	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-080-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	43	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #44805/#44035

LCSL (3/11/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	158	100	85 - 115%
Nitrite-N	732	600	82.0*	85 - 115%
Nitrate-N	187	173	92.5	85 - 115%

Recovery - 1 out of 3 outside Control Limits

LCSH (3/11/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	155	98.1	85 - 115%
Nitrate-N	187	182	97.3	85 - 115%

Recovery - 0 out of 2 outside Control Limits

LCSL (3/28/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	158	100	85 - 115%
Nitrite-N	732	739	101	85 - 115%
Nitrate-N	187	174	93.0	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/28/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	149	94.3	85 - 115%
Nitrate-N	187	177	94.7	85 - 115%

Recovery - 0 out of 2 outside Control Limits

Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903069

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-16GW40-0309	11.8	12.1	2.5	15%
Nitrite-N	E300.0	OU1-16GW40-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-16GW40-0309	0.32	0.32	0	15%
Chloride	E300.0	OU1-16GW02-0309	29.8	29.8	0	15%
Nitrite-N	E300.0	OU1-16GW02-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-16GW02-0309	0.11	0.12	8.7	15%

RPD - 0 out of 3 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-16GW40-0309	11.8	22.2	10.0	104	90 - 110%
Nitrite-N	E300.0	OU1-16GW40-0309	0	1.30	1.00	130*	90 - 110%
Nitrate-N	E300.0	OU1-16GW40-0309	0.32	1.24	1.00	92.0	90 - 110%
Nitrite-N	E300.0	OU1-16GW02-0309	0	1.15	1.00	115	90 - 110%
Nitrate-N	E300.0	OU1-16GW02-0309	0.11	0.83	1.00	72*	90 - 110%
Chloride	E300.0	OU1-16GW02-0309	29.8	33.6	10.0	38*	90 - 110%
Nitrite-N	E300.0	OU1-16GW02-0309	0	1.34	1.00	134*	90 - 110%
Nitrate-N	E300.0	OU1-16GW02-0309	0.11	1.05	1.00	94.0	90 - 110%

Recovery - 4 out of 8 outside control limits

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC | Client: CH2M Hill

Work-Order # 903069 | STD Solution ID: 45325/45405

3/11/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL5	**Chloride**	1.25	1.35	108	90 - 110%
	Nitrite-N	1.25	1.29	103	90 - 110%
	Nitrate-N	1.25	1.25	100	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH5	**Chloride**	20.0	20.9	105	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL6	**Chloride**	1.25	1.35	108	90 - 110%
	Nitrite-N	1.25	1.33	106	90 - 110%
	Nitrate-N	1.25	1.27	102	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH6	**Chloride**	20.0	21.0	105	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL7	**Chloride**	1.25	1.32	106	90 - 110%
	Nitrite-N	1.25	1.31	105	90 - 110%
	Nitrate-N	1.25	1.23	98.4	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH7	**Chloride**	20.0	20.8	104	90 - 110%

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903069 STD Solution ID: 45325/45405

3/28/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL3	**Chloride**	1.25	1.24	99.2	90 - 110%
	Nitrite-N	1.25	1.24	99.2	90 - 110%
	Nitrate-N	1.25	1.22	97.6	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	**Chloride**	20.0	20.1	101	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL4	**Chloride**	1.25	1.25	100	90 - 110%
	Nitrite-N	1.25	1.25	100	90 - 110%
	Nitrate-N	1.25	1.22	97.6	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	**Chloride**	20.0	20.0	100	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL5	**Chloride**	1.25	1.26	101	90 - 110%
	Nitrite-N	1.25	1.27	102	90 - 110%
	Nitrate-N	1.25	1.22	97.6	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH5	**Chloride**	20.0	19.9	99.5	90 - 110%

TOTAL PETROLEUM HYDROCARBON GASOLINE RANGE ORGANICS

GPL Laboratories

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW40-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903069-002-070-2/6MSD Matrix : WATER Analysis Date : 03/23/2009

Compound	Spike Added (ug/L) MS	Spike Added (ug/L) MSD	CONCENTRATION (ug/L) Sample	CONCENTRATION (ug/L) MS	CONCENTRATION (ug/L) MSD	%RECOVERY MS	%RECOVERY MSD	% RPD	RPD Limit	QC Limits
Ethane	310	310	0.0	260	270	84	87	4	25	80-120
Ethene	290	290	0.0	240	240	83	83	0	25	80-120
Methane	160	160	200	270	240	44*	25*	55*	25	80-120

NL 3/26/09

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 0 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108830

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	G262595.D	SDG NO :	903069
Date Analyzed	03/23/2009	Lab Sample ID :	BLK108830
GC Column :	ID. RTX_VC	Time Analyzed :	12:17

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW02-0309	903069-007-063-1/6	G262613.D	17:26
OU1-16GW02-0309DL	903069-007-064-2/6	G262615.D	17:58
OU1-16GW03-0309	903069-004-033-1/2	G262607.D	15:49
OU1-16GW03-0309DL	903069-004-034-2/2	G262610.D	16:36
OU1-16GW04-0309	903069-006-037-1/2	G262612.D	17:08
OU1-16GW04-0309DL	903069-006-038-2/2	G262614.D	17:42
OU1-16GW09-0309	903069-001-043-1/2	G262598.D	13:02
OU1-16GW40-0309	903069-002-069-1/6	G262599.D	13:21
OU1-16GW40-0309DL	903069-002-070-2/6	G262601.D	14:02
OU1-16GW40-0309MS	903069-002-070-2/6MS	G262602.D	14:29
OU1-16GW40-0309MSD	903069-002-070-2/6MSD	G262603.D	14:48
OU1-16GW41-0309	903069-003-031-1/2	G262606.D	15:34
OU1-16GW41-0309DL	903069-003-032-2/2	G262609.D	16:21
OU1-16GW42-0309	903069-005-035-1/2	G262608.D	16:05
OU1-16GW42-0309DL	903069-005-036-2/2	G262611.D	16:54

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108831

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	G262618.D	SDG NO :	903069
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108831
GC Column :	ID. RTX_VC	Time Analyzed :	07:28

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW02-0309MS	903069-007-064-2/6MS	G262619.D	07:42
OU1-16GW02-0309MSD	903069-007-064-2/6MSD	G262620.D	07:56
OU1-MW12-0309	903069-009-041-1/2	G262622.D	08:32
OU1-MW12-0309DL	903069-009-042-2/2	G262624.D	09:04
OU1-MW48-0309	903069-008-039-1/2	G262621.D	08:13
OU1-MW48-0309DL	903069-008-040-2/2	G262623.D	08:50

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009

Calibration Files
1 =G262567.D 2 =G262568.D 10 =G262571.D
5 =G262570.D 4 =G262569.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	1.844	1.715	1.208	1.507	1.544	1.563 E2	15.39
2)	T	Ethane	2.965	2.600	1.796	2.090	2.406	2.371 E1	19.04
3)	T	Ethylene	3.591	3.466	2.153	2.763	2.893	2.973 E1	19.52

(#) = Out of Range

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903069-007-064-2/6MSD Matrix : WATER Analysis Date : 03/24/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	3100	3100	0.0	2700	2700	87	87	0	25	80-120
Ethene	2900	2900	0.0	2400	2400	83	83	0	25	80-120
Methane	1600	1600	2100	3400	3200	81	69 *	16	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 1 Out of 6 outside limit

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262594.D
Acq On : 23 Mar 2009 12:02
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 13
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	126.747	18.9	84	-0.24
2	T	Ethane	23.713	20.609	13.1	99	0.02
3	T	Ethylene	29.730	24.605	17.2	89	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262605.D
Acq On : 23 Mar 2009 15:19
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 24
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	156.325	0.0	104	0.00
2	T	Ethane	23.713	21.571	9.0	103	0.03
3	T	Ethylene	29.730	24.983	16.0	90	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262616.D Vial: 35
Acq On : 23 Mar 2009 18:25 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	155.181	0.7	103	0.01
2	T	Ethane	23.713	19.679	17.0	94	0.02
3	T	Ethylene	29.730	24.089	19.0	87	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G262616.D RSK0320.M Mon Mar 23 18:36:07 2009 W28_IOANNIDE Page 1

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262617.D Vial: 35
Acq On : 24 Mar 2009 6:59 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	143.072	8.5	95	0.02
2	T	Ethane	23.713	21.506	9.3	103	-0.02
3	T	Ethylene	29.730	25.808	13.2	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G262617.D RSK0320.M Tue Mar 24 07:11:21 2009 W28_IOANNIDE Page 1

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262629.D Vial: 13
Acq On : 24 Mar 2009 10:38 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	162.229	-3.8	108	0.03
2	T	Ethane	23.713	19.327	18.5	92	0.00
3	T	Ethylene	29.730	23.918	19.5	87	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108830

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108830
Sample Volume :	10	Lab File ID :	G262595.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108831

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108831
Sample Volume :	10	Lab File ID :	G262618.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-063-1/6
Sample Volume :	10	Lab File ID :	G262613.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	1500	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-064-2/6
Sample Volume :		Lab File ID :	G262615.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	2000	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-064-2/6MS
Sample Volume :	.2	Lab File ID :	G262619.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	2600	
74-85-1	Ethene	2400	
74-82-8	Methane	3400	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-064-2/6MSD
Sample Volume :	.2	Lab File ID :	G262620.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	2700	
74-85-1	Ethene	2400	
74-82-8	Methane	3200	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-033-1/2
Sample Volume :	10	Lab File ID :	G262607.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	790	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-034-2/2
Sample Volume :	.2	Lab File ID :	G262610.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	310	U
74-85-1	Ethene	290	U
74-82-8	Methane	290	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-037-1/2
Sample Volume :	10	Lab File ID :	G262612.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	370	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-038-2/2
Sample Volume :	.5	Lab File ID :	G262614.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	650	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-043-1/2
Sample Volume :	10	Lab File ID :	G262598.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	17	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-069-1/6
Sample Volume :	10	Lab File ID :	G262599.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	150	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-070-2/6
Sample Volume :	1	Lab File ID :	G262601.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	200	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-070-2/6MS
Sample Volume :		Lab File ID :	G262602.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	260	
74-85-1	Ethene	240	
74-82-8	Methane	270	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-070-2/6MSD
Sample Volume :		Lab File ID :	G262603.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	270	
74-85-1	Ethene	240	
74-82-8	Methane	240	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-031-1/2
Sample Volume :	10	Lab File ID :	G262606.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	5.9	J
74-85-1	Ethene	5.8	U
74-82-8	Methane	1400	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-032-2/2
Sample Volume :	.1	Lab File ID :	G262609.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	880	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-035-1/2
Sample Volume :	10	Lab File ID :	G262608.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	4.2	J
74-85-1	Ethene	5.8	U
74-82-8	Methane	1100	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-036-2/2
Sample Volume :	.1	Lab File ID :	G262611.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	1200	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-041-1/2
Sample Volume :	10	Lab File ID :	G262622.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	980	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-042-2/2
Sample Volume :	.2	Lab File ID :	G262624.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	310	U
74-85-1	Ethene	290	U
74-82-8	Methane	470	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-039-1/2
Sample Volume :	10	Lab File ID :	G262621.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	760	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-040-2/2
Sample Volume :	.2	Lab File ID :	G262623.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	310	U
74-85-1	Ethene	290	U
74-82-8	Methane	610	

WET CHEMISTRY

GPL Laboratories, LLLP

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903069

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-16GW02-0309	BQL	BQL	N/C	15%
Sulfide	E376.1	OU1-16GW40-0309	BQL	BQL	N/C	15%

%RPD - 0 out of 2 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-16GW40-0309	1.09	6.4	5.00	106	85 - 115%
TOC	SW9060	OU1-16GW02-0309	6.51	11.6	5.00	102	85 - 115%

% Recovery - 0 out of 2 outside control limits

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903069 STD Solution ID: #43278

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	33.9	106	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	32.6	102	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	34.1	107	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	32.9	103	90 - 110%

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC

Client: CH2M Hill

Work-Order # 903069

STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.40	110	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	4.00	4.00	100	70 - 130%

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-001-095-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.1	
7440-44-0	Total Organic Carbon, Replicate 2	3.2	
7440-44-0	Total Organic Carbon, Replicate 3	3.2	
7440-44-0	Total Organic Carbon, Replicate 4	3.2	
7440-44-0	Total Organic Carbon, Average	3.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-002-108-1/3
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.2	U
7440-44-0	Total Organic Carbon, Replicate 2	1.1	U
7440-44-0	Total Organic Carbon, Replicate 3	1.0	U
7440-44-0	Total Organic Carbon, Replicate 4	1.0	U
7440-44-0	Total Organic Carbon, Average	1.1	U

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-002-108-1/3MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.5	
7440-44-0	Total Organic Carbon, Replicate 2	6.3	
7440-44-0	Total Organic Carbon, Average	6.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-003-089-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.2	
7440-44-0	Total Organic Carbon, Replicate 2	3.2	
7440-44-0	Total Organic Carbon, Replicate 3	3.1	
7440-44-0	Total Organic Carbon, Replicate 4	3.2	
7440-44-0	Total Organic Carbon, Average	3.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-004-090-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.2	
7440-44-0	Total Organic Carbon, Replicate 2	2.1	
7440-44-0	Total Organic Carbon, Replicate 3	2.1	
7440-44-0	Total Organic Carbon, Replicate 4	2.1	
7440-44-0	Total Organic Carbon, Average	2.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-008-093-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	4.5	
7440-44-0	Total Organic Carbon, Replicate 2	4.5	
7440-44-0	Total Organic Carbon, Replicate 3	4.5	
7440-44-0	Total Organic Carbon, Replicate 4	4.5	
7440-44-0	Total Organic Carbon, Average	4.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-005-091-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/11/2009
% Moisture:	ID.	Date Analyzed:	3/17/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.3	
7440-44-0	Total Organic Carbon, Replicate 2	3.2	
7440-44-0	Total Organic Carbon, Replicate 3	3.2	
7440-44-0	Total Organic Carbon, Replicate 4	3.2	
7440-44-0	Total Organic Carbon, Average	3.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0306

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-006-092-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.7	
7440-44-0	Total Organic Carbon, Replicate 2	2.7	
7440-44-0	Total Organic Carbon, Replicate 3	2.7	
7440-44-0	Total Organic Carbon, Replicate 4	2.8	
7440-44-0	Total Organic Carbon, Average	2.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-007-111-1/3
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.4	
7440-44-0	Total Organic Carbon, Replicate 2	6.5	
7440-44-0	Total Organic Carbon, Replicate 3	6.5	
7440-44-0	Total Organic Carbon, Replicate 4	6.6	
7440-44-0	Total Organic Carbon, Average	6.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-007-111-1/3MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	11.6	
7440-44-0	Total Organic Carbon, Replicate 2	11.7	
7440-44-0	Total Organic Carbon, Average	11.6	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-009-094-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	14.4	
7440-44-0	Total Organic Carbon, Replicate 2	14.3	
7440-44-0	Total Organic Carbon, Replicate 3	14.4	
7440-44-0	Total Organic Carbon, Replicate 4	14.5	
7440-44-0	Total Organic Carbon, Average	14.4	

GPL
Laboratories

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	*
Case No. :		SDG NO :	*
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-105-1/3
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received :	03/12/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-083-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-085-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-088-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-102-1/3
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-082-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-084-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-087-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-086-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/17/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

Qualifier Definitions

CH2M Hill Inc

Work Order: 903069

All Departments

U	Indicates that the compound was analyzed for but not detected
BQL	Below Quantitation Limit

Organics

B	Indicates that the analyte was found in the associated blank as well as in the sample
D	Indicates that the analyte was reported from a diluted analysis
E	Indicates that the concentration detected exceeded the calibration range of the instrument
J	Value is less than the reporting limit but greater than the MDL
P	Indicates that there is greater than 25% difference for detected pesticide/Arochlor results between the two GC columns

Metals

J	Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL
E	Indicates that the reported value is estimated because of the possible presence of interference (i.e. the serial dilution not within control limits)
H	Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit
D	Indicates that the analyte was reported from a diluted analysis
N	Spiked sample recovery not within control limits
*	Duplicate analysis not within control limits

GPL Laboratories, LLLP

Chain of Custody

CH2M Hill Inc

SDG: 903069

CTO 59

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Contract #/Billing Reference: Nitrite and Nitrate are 48 hours - Chloride is 28 days

1 of 2 Pgs.

Project: Groundwater Sampling at CAS Cherry Point

Client: CH2M Hill

Send Results to: Bill Hannah

Address: 5700 Cleveland St. Suite 101
Virginia Beach, Va. 23462

Phone: 757-671-6277

Turnaround Time	14 days	See Above	7 days	14 days	28 days
# of Containers	3	1	1	2	1
Container Type	VOA	4oz Plastic	8oz Plastic	VOA	8oz Amber
Preservative Used	HCl	None	NaOH	HCL	H2SO4
Type of Analysis	SW 846 5030B (VOCs)	EPA 300.0 (Nitrate, Nitrite and Chloride)	EPA 376.1 (Sulfide)	RSK-175 (Methane, Ethane and Ethene)	SW846 9060 (Total Organic Carbon)

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	SW 846 5030B (VOCs)	EPA 300.0 (Nitrate, Nitrite and Chloride)	EPA 376.1 (Sulfide)	RSK-175 (Methane, Ethane and Ethene)	SW846 9060 (Total Organic Carbon)	Lab Cooler No.	CLIENT COMMENTS
OU1-10GW05-0309	3/11/09	9:55	Water	PVT	3	1	1	2	1		
OU1-16GW40-0309	3/11/09	11:15	Water	PVT	3	1	1	2	1		
OU1-16GW31-0309	3/11/09	12:15	Water	PVT	3	1	1	2	1		
OU1-16GW03-0309	3/11/09	13:35	Water	PVT	3	1	1	2	1		
OU1-MS01-0309	3/11/09	11:15	Water	PVT	3	1	1	2	1		QA/QC; Taken at GW40
OU1-MSD01-0309	3/11/09	11:15	Water	PVT	3	1	1	2	1		QA/QC; Taken at GW40
OU1-16GW42-0309	3/11/09	15:00	Water	PVT	3	1	1	2	1		
OU1-16GW04-0309	3/11/09	15:50	Water	PVT	3	1	1	2	1		
OU1-16GW02-0309	3/11/09	12:45	Water	KB	3	1	1	2	1		
OU1-MW48-0309	3/11/09	15:38	Water	KB	3	1	1	2	1		
OU1-MW12-0309	3/11/09	16:52	Water	KB	3	1	1	2	1		
OU1-MS02-0309	3/11/09	12:50	Water	KB	3	1	1	2	1		QA/QC: Take at GW02

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
David Miller	3/11/09 15:13			[signature]	3/12/09 [illegible]
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
Relinquished By:	Date/Time	Received By:	Lab Comments:		Temp: 2°

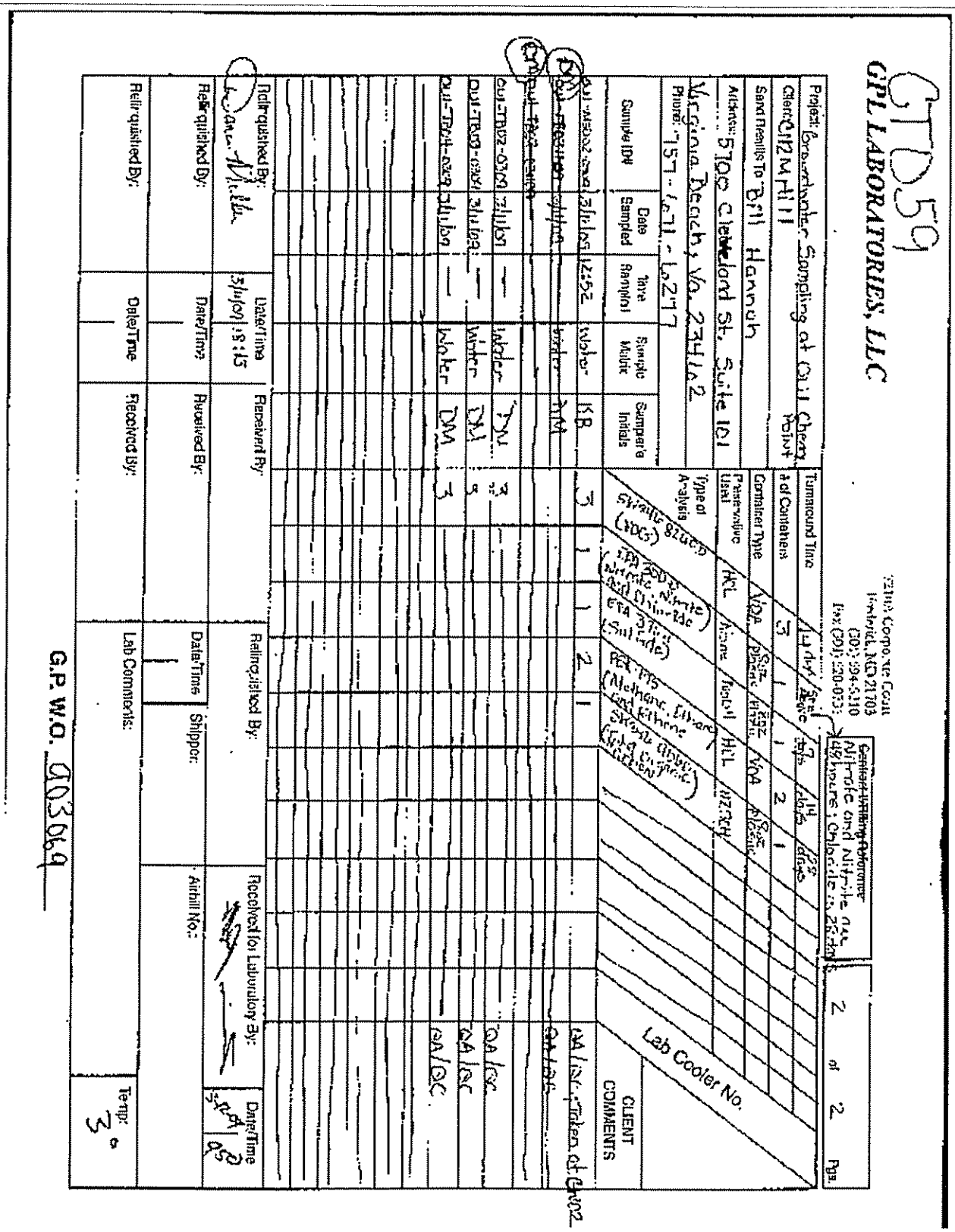
G.P. W.O. 903069

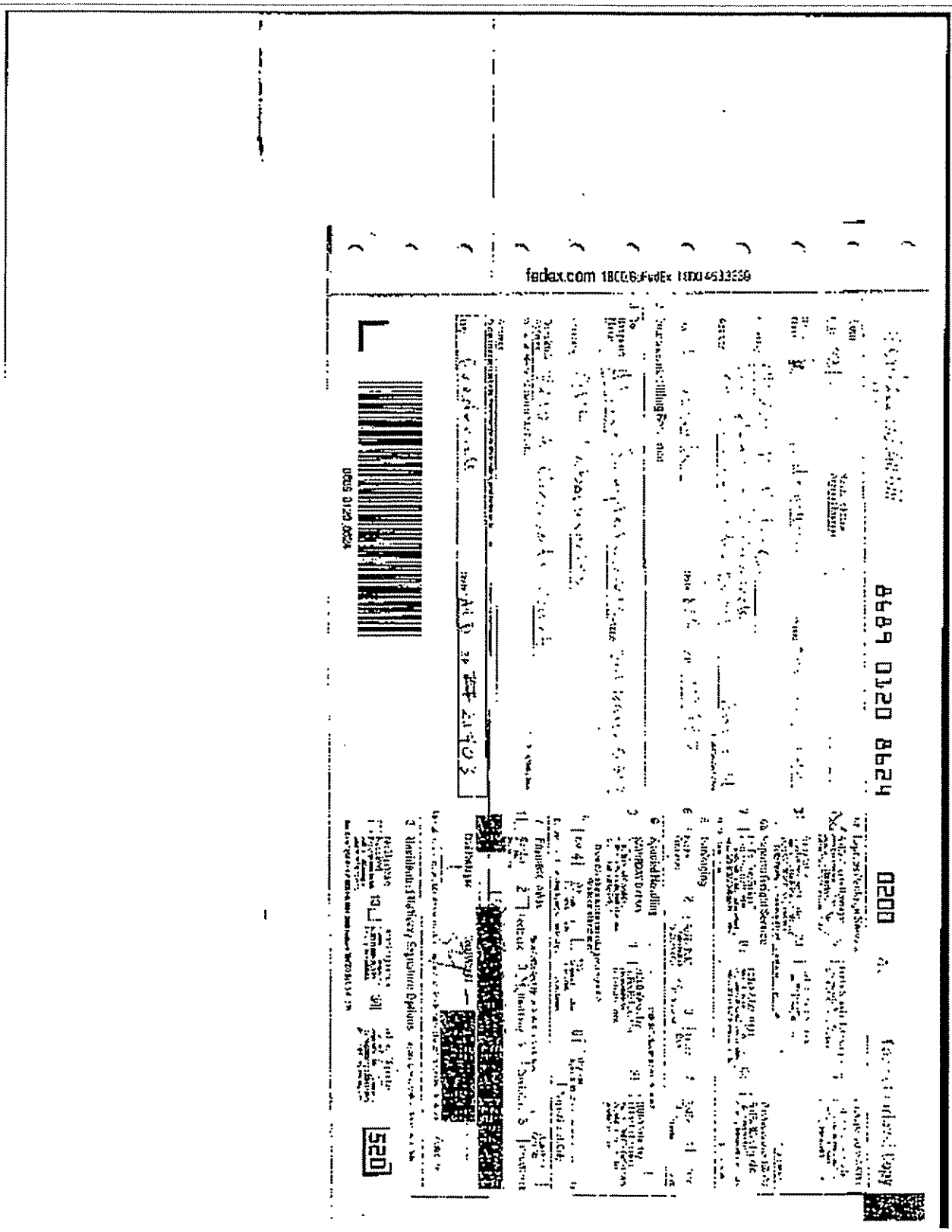
www.gplab.com

Chain of Custody

CH2M Hill Inc

SDG: 903069

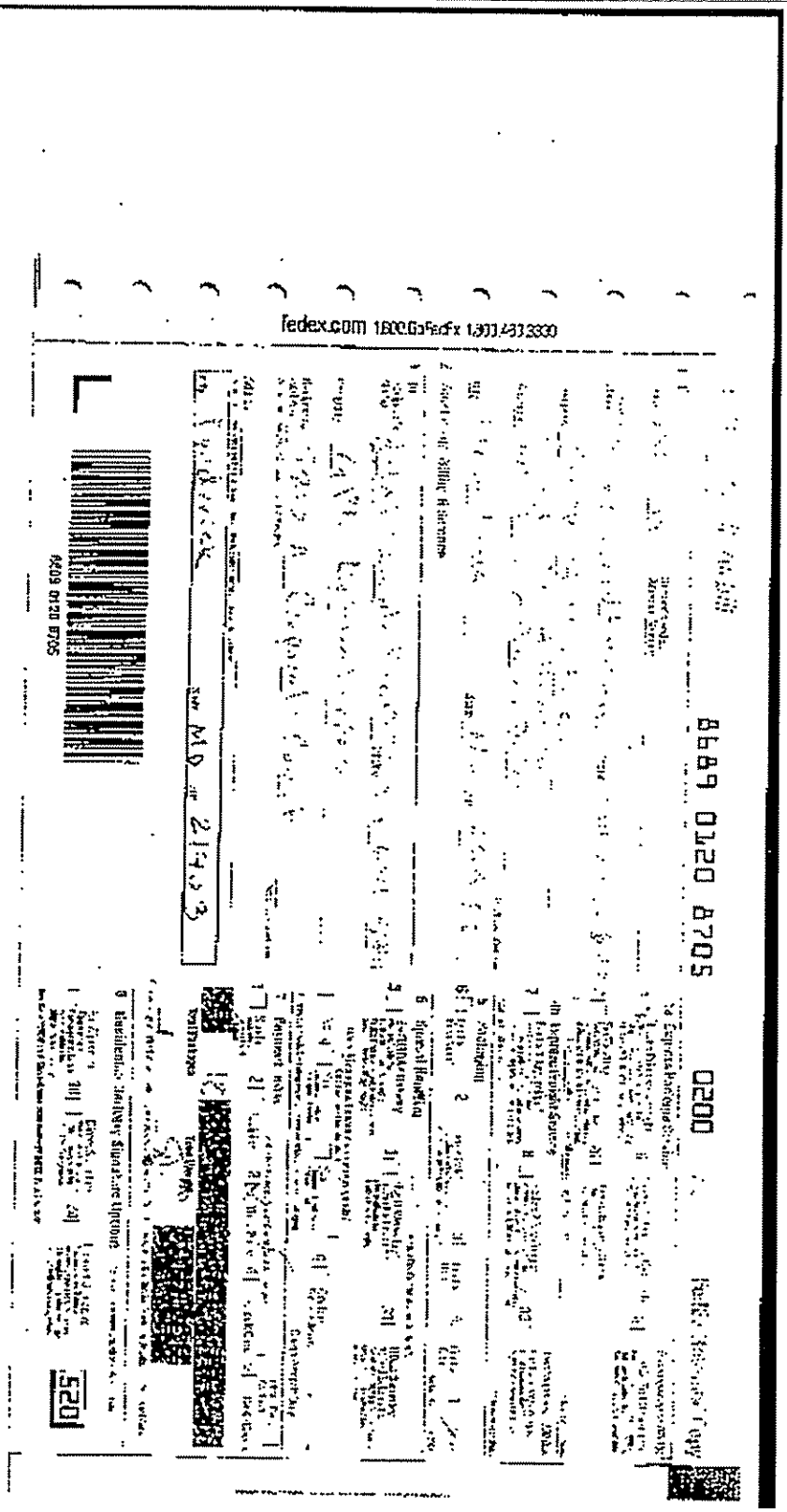



fedex.com
8469 0120 8624
0200

Chain of Custody

CH2M Hill Inc

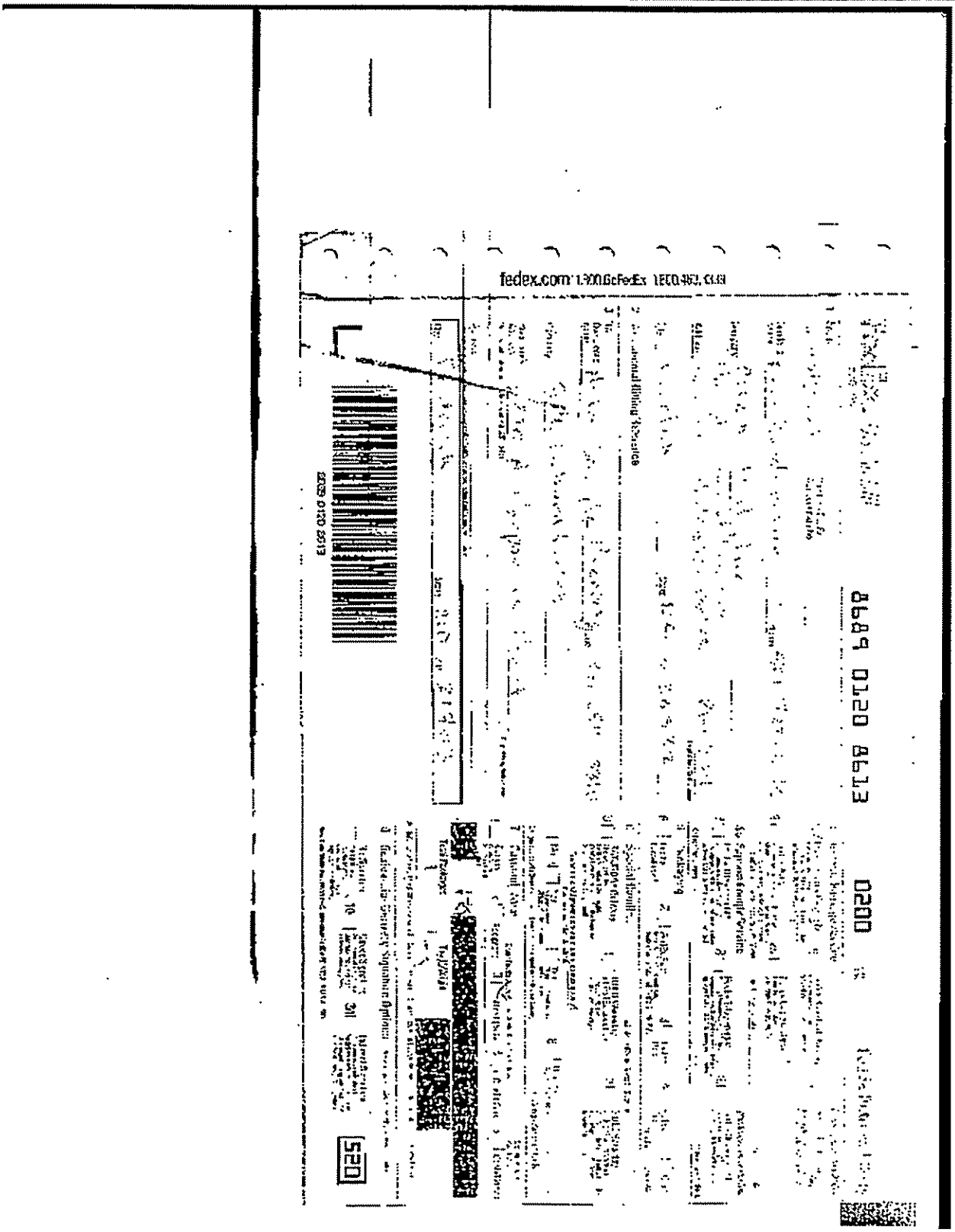
SDG: 903069



Chain of Custody

CH2M Hill Inc

SDG: 903069



GPL Laboratories, LLLP

Figure 3

Sample Preservation Check Documentation Form

Work Order: 903069

Parameter: / Preservative: / pH Range:	Metals (A) HNO3 <2	Phenol H2SO4 <2	TPH Gas H2SO4 <2	Classical Parameters H2SO4 <2	Cyanide NaOH >12	Sulfide NaOH >9	Radiology (B) HNO3 <2	Other Preservative Adjustment	Reagent Lot #	Lab Check for Comments
GPL ID										
OUT-166W09-0309				/		/		Y / N		
OUT-166W10-0309				/		/		Y / N		
OUT-166W11-0309				/		/		Y / N		
OUT-166W03-0309				/		/		Y / N		
OUT-MSD1-0309				/		/		Y / N		
OUT-166W12-0309				/		/		Y / N		
OUT-166W09-0309				/		/		Y / N		
OUT-166W02-0309				/		/		Y / N		
OUT-MW48-0309				/		/		Y / N		
OUT-MW12-0309				/		/		Y / N		
OUT-MS02-0309				/		/		Y / N		
OUT-MSD2-0309				/		/		Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		

(A): If drinking water metals sample is acidified in the laboratory
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.
(B): If Radiochemistry sample is acidified in the laboratory
the TIME that the samples are acidified MUST be recorded in order to meet the 19 hour hold time requirement.
Cyanide analysis should NOT be preserved.

Sample Preservation Check Performed By: Pat Date: 3-12-09

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903069
Client Name: CH2M Hill
Date Received: 3-12-09
Time Received: 9:58
Received By: Travis

Carrier Name: Fed Ex
Prepared (Logged In) By: PM 3-12-09
Project:
Site:
VOA Vial Trip Blank ID No:

	YES	NO
Airbill/Manifest Present?	✓	
No: 8689 0124 8624		
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?	✓	
Condition: Good ✓ Broken		
Chain of Custody Present?	✓	
Chain of Custody Agrees with Sample Labels?	✓	
Chain of Custody Signed?	✓	
Packing Present in Shipping Container?	✓	
Type of Packing Bubble Wrap		
Custody Seals on Sample Bottles?	✓	
Condition: Good ✓ Broken		
Total Number of Sample Bottles 113	✓	
Total Number of Samples 44/12	✓	
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks Received?	✓	
No. of Sets 6		
VOA Vials Have Zero Headspace?	✓	
Preservatives Added to Sample?	✓	
pH Check Required?	✓	
Performed By: PM		
Ice Present in Shipping Container?	✓	

Container #	Temperature
3	3

Project Manager Contacted?
Name: Garth
Date Contacted: 3-12-09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: THIS IS ALL QC

Checklist Completed By: Pat
Date: 3-12-09

VOLATILE ORGANICS

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary
   (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

GPL Laboratories

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903069**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108811	104	98	107	115
BKSD108811	103	98	105	121
BLK108811	95	96	98	102
OU1-16GW03-0309	94	98	99	108
OU1-16GW04-0309	93	96	101	109
OU1-16GW09-0309	95	95	95	108
OU1-16GW40-0309	94	93	93	109
OU1-MW48-0309	94	95	102	109

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903069**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108821	102	122 *	111	116
BKSD108821	100	120	108	119
BLK108821	99	118	106	106
OU1-16GW41-0309	96	119	101	109
OU1-16GW42-0309	97	116	100	112

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903069**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108826	99	117	107	114
BLK108826	96	111	105	107
OU1-MW12-0309	94	114	103	112
OUI-TB02-0309	97	116	101	111
OUI-TB03-0309	95	115	105	108
OUI-TB04-0309	99	119	99	115

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903069**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108829	100	110	109	117
BLK108829	99	111	107	109
OU1-16GW02-0309	94	110	103	111
OU1-16GW02-0309MS	99	107	106	116
OU1-16GW02-0309MSD	100	108	110	114
OU1-16GW04-0309DL	97	109	107	110
OU1-16GW40-0309DL	97	113	104	113
OU1-16GW40-0309DLMS	99	91	108	120
OU1-16GW40-0309DLMSD	101	109	106	116
OU1-16GW42-0309DL	98	108	100	116

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-002-055-2/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1,2-Tetrachloroethane	500	500	0.0	460	460	92	92	0	25	80-130
1,1,1-Trichloroethane	500	500	0.0	480	480	96	96	0	25	65-130
1,1,2,2-Tetrachloroethane	500	500	0.0	440	420	88	84	5	25	65-130
1,1,2-Trichloroethane	500	500	0.0	460	470	92	94	2	25	75-125
1,1-Dichloroethane	500	500	0.0	450	460	90	92	2	25	70-135
1,1-Dichloroethene	500	500	0.0	470	480	92	94	2	25	70-130
1,1-Dichloropropene	500	500	0.0	420	410	84	82	2	25	75-130
1,2,3-Trichlorobenzene	500	500	0.0	520	520	104	104	0	25	55-140
1,2,3-Trichloropropane	500	500	0.0	480	450	96	90	6	25	75-125
1,2,4-Trichlorobenzene	500	500	0.0	520	520	104	104	0	25	65-135
1,2,4-Trimethylbenzene	500	500	0.0	440	430	88	86	2	25	75-130
1,2-Dibromo-3-Chloropropane	500	500	0.0	420	410	84	82	2	25	50-130
1,2-Dichlorobenzene	500	500	0.0	490	470	98	94	4	25	70-120
1,2-Dichloroethane	500	500	0.0	420	420	84	84	0	25	70-130
1,2-Dichloropropane	500	500	0.0	390	400	78	82	5	25	75-125
1,3,5-trimethylbenzene	500	500	0.0	430	430	86	86	0	25	75-130
1,3-Dichlorobenzene	500	500	0.0	510	500	102	100	2	25	75-125
1,3-Dichloropropane	500	500	0.0	400	390	80	78	3	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 5 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-002-055-2/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,4-Dichlorobenzene	500	500	0.0	500	490	100	98	2	25	75-125
2,2-Dichloropropane	500	500	0.0	420	430	84	86	2	25	70-135
2-Butanone	1000	1000	0.0	710	710	71	71	0	25	30-150
2-Chlorotoluene	500	500	0.0	450	460	90	92	2	25	75-125
2-Hexanone	1000	1000	0.0	740	710	74	71	4	25	55-130
4-Chlorotoluene	500	500	0.0	470	470	94	94	0	25	75-130
4-Isopropyltoluene	500	500	0.0	490	480	98	96	2	25	75-130
4-Methyl-2-Pentanone	1000	1000	0.0	680	750	68	75	10	25	60-135
Acetone	500	500	0.0	690	600	138	120	14	25	40-140
Benzene	500	500	0.0	400	390	80	78 *	3	25	80-120
Bromobenzene	500	500	0.0	500	500	100	100	0	25	75-125
Bromochloromethane	500	500	0.0	570	560	114	112	2	25	65-130
Bromodichloromethane	500	500	0.0	400	400	80	80	0	25	75-120
Bromoform	500	500	0.0	470	470	94	94	0	25	70-130
Bromomethane	500	500	0.0	910	890	182 *	178 *	2	25	30-145
Carbon Disulfide	500	500	0.0	400	400	80	80	0	25	35-160
Carbon Tetrachloride	500	500	0.0	540	530	108	106	2	25	65-140
Chlorobenzene	500	500	0.0	430	430	86	86	0	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 5 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-002-055-2/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Chloroethane	500	500	0.0	620	660	124	132	6	25	60-135
Chloroform	500	500	0.0	430	450	86	90	5	25	65-135
Chloromethane	500	500	0.0	390	410	78	82	5	25	40-125
Cyclohexane	500	500	0.0	420	430	84	86	2	25	50-120
Dibromochloromethane	500	500	0.0	430	430	86	86	0	25	60-135
Dibromomethane	500	500	0.0	420	410	84	82	2	25	75-125
Dichlorodifluoromethane	500	500	0.0	320	380	64	76	17	25	30-155
Ethylbenzene	500	500	0.0	400	400	80	80	0	25	75-125
Ethylene DiBromide	500	500	0.0	410	410	82	82	0	25	80-120
Freon 113	500	500	150	790	770	128 *	124 *	3	25	70-120
Hexachlorobutadiene	500	500	0.0	510	510	102	102	0	25	50-140
Isopropylbenzene	500	500	0.0	440	430	88	86	2	25	75-125
Methyl Acetate	500	500	0.0	350	330	70	66	6	25	50-120
Methylcyclohexane	500	500	0.0	480	470	96	94	2	25	50-120
Methylene Chloride	500	500	0.0	390	410	78	82	5	25	55-140
Naphthalene	500	500	0.0	520	500	104	100	4	25	55-140
Sec-Butylbenzene	500	500	0.0	450	440	90	88	2	25	70-125
Styrene	500	500	0.0	420	420	84	84	0	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 5 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-002-055-2/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Tetrachloroethylene	500	500	0.0	500	510	100	102	2	25	45-150
Toluene	500	500	0.0	450	480	90	96	6	25	75-120
Trichloroethene	500	500	0.0	400	390	80	78	3	25	70-125
Trichlorofluoromethane	500	500	0.0	580	620	116	124	7	25	60-145
Vinyl Acetate	500	500	0.0	340	320	68	64	6	25	36-133
Vinyl Chloride	500	500	0.0	340	350	68	70	3	25	50-145
cis-1,2-Dichloroethene	500	500	0.0	420	430	84	86	2	25	70-125
cis-1,3-Dichloropropene	500	500	0.0	370	370	74	74	0	25	70-130
m,p-Xylene	1000	1000	0.0	880	870	88	87	1	25	75-130
n-Butylbenzene	500	500	0.0	420	400	84	80	5	25	70-135
n-Propylbenzene	500	500	0.0	410	420	82	84	2	25	70-130
o-Xylene	500	500	0.0	420	410	84	82	2	25	80-120
tert-Butylbenzene	500	500	0.0	480	460	94	92	2	25	70-130
tert-butyl methyl ether	500	500	0.0	480	500	96	98	2	25	65-125
trans-1,2-dichloroethene	500	500	0.0	460	480	92	96	4	25	60-140
trans-1,3-dichloropropene	500	500	0.0	440	450	88	90	2	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 5 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-007-045-1/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1,2-Tetrachloroethane	50	50	0.0	53	59	106	118	11	25	80-130
1,1,1-Trichloroethane	50	50	0.0	60	67	120	134 *	11	25	65-130
1,1,2,2-Tetrachloroethane	50	50	0.0	46	52	92	104	12	25	65-130
1,1,2-Trichloroethane	50	50	0.0	52	58	104	116	11	25	75-125
1,1-Dichloroethane	50	50	0.0	55	60	110	120	9	25	70-135
1,1-Dichloroethene	50	50	0.0	59	65	118	130	10	25	70-130
1,1-Dichloropropene	50	50	0.0	51	56	102	112	9	25	75-130
1,2,3-Trichlorobenzene	50	50	0.0	61	66	122	130	6	25	55-140
1,2,3-Trichloropropane	50	50	0.0	49	55	98	110	12	25	75-125
1,2,4-Trichlorobenzene	50	50	0.0	58	63	116	126	8	25	65-135
1,2,4-Trimethylbenzene	50	50	0.0	49	54	98	108	10	25	75-130
1,2-Dibromo-3-Chloropropane	50	50	0.0	45	48	90	96	6	25	50-130
1,2-Dichlorobenzene	50	50	0.0	54	61	108	122 *	12	25	70-120
1,2-Dichloroethane	50	50	0.0	46	52	92	104	12	25	70-130
1,2-Dichloropropane	50	50	0.0	45	48	90	96	6	25	75-125
1,3,5-trimethylbenzene	50	50	0.0	50	56	100	112	11	25	75-130
1,3-Dichlorobenzene	50	50	0.0	56	62	112	124	10	25	75-125
1,3-Dichloropropane	50	50	0.0	45	49	90	98	9	25	75-125

* Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 19 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-007-045-1/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,4-Dichlorobenzene	50	50	0.0	57	62	114	124	8	25	75-125
2,2-Dichloropropane	50	50	0.0	50	54	100	108	8	25	70-135
2-Butanone	100	100	0.0	76	82	76	82	8	25	30-150
2-Chlorotoluene	50	50	0.0	54	59	108	118	9	25	75-125
2-Hexanone	100	100	0.0	82	89	82	89	8	25	55-130
4-Chlorotoluene	50	50	0.0	54	59	108	118	9	25	75-130
4-Isopropyltoluene	50	50	0.0	58	62	114	124	8	25	75-130
4-Methyl-2-Pentanone	100	100	0.0	84	92	83	92	10	25	60-135
Acetone	50	50	0.0	73	84	146 *	168 *	14	25	40-140
Benzene	50	50	0.0	46	51	92	102	10	25	80-120
Bromobenzene	50	50	0.0	57	63	114	126 *	10	25	75-125
Bromochloromethane	50	50	0.0	63	72	126	144 *	13	25	65-130
Bromodichloromethane	50	50	0.0	46	51	92	102	10	25	75-120
Bromoform	50	50	0.0	53	59	106	118	11	25	70-130
Bromomethane	50	50	0.0	98	100	196 *	220 *	12	25	30-145
Carbon Disulfide	50	50	0.0	49	54	98	108	10	25	35-160
Carbon Tetrachloride	50	50	0.0	65	73	130	146 *	12	25	65-140
Chlorobenzene	50	50	0.0	50	54	100	110	10	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 19 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-007-045-1/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Chloroethane	50	50	0.0	78	89	156 *	178 *	13	25	60-135
Chloroform	50	50	0.0	51	57	102	114	11	25	65-135
Chloromethane	50	50	0.0	43	53	86	106	21	25	40-125
Cyclohexane	50	50	0.0	57	62	112	124 *	10	25	50-120
Dibromochloromethane	50	50	0.0	48	54	96	110	14	25	60-135
Dibromomethane	50	50	0.0	48	50	96	100	4	25	75-125
Dichlorodifluoromethane	50	50	0.0	56	60	112	120	7	25	30-155
Ethylbenzene	50	50	0.0	46	51	92	102	10	25	75-125
Ethylene DiBromide	50	50	0.0	45	51	90	102	13	25	80-120
Freon 113	50	50	15	98	100	166 *	170 *	2	25	70-120
Hexachlorobutadiene	50	50	0.0	64	68	128	136	6	25	50-140
Isopropylbenzene	50	50	0.0	52	56	104	112	7	25	75-125
Methyl Acetate	50	50	0.0	38	43	76	86	12	25	50-120
Methylcyclohexane	50	50	0.0	62	66	124 *	132 *	6	25	50-120
Methylene Chloride	50	50	2.3	46	50	87	95	9	25	55-140
Naphthalene	50	50	0.0	58	65	116	130	11	25	55-140
Sec-Butylbenzene	50	50	0.0	53	58	106	116	9	25	70-125
Styrene	50	50	0.0	47	51	94	102	8	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 19 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903069-007-045-1/9MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Tetrachloroethylene	50	50	0.0	59	64	118	128	8	25	45-150
Toluene	50	50	0.0	55	61	110	122 *	10	25	75-120
Trichloroethene	50	50	3.9	51	54	94	100	6	25	70-125
Trichlorofluoromethane	50	50	0.0	79	97	158 *	194 *	20	25	60-145
Vinyl Acetate	50	50	0.0	30	27	60	54	11	25	36-133
Vinyl Chloride	50	50	0.0	41	47	82	94	14	25	50-145
cis-1,2-Dichloroethene	50	50	4.5	53	57	97	105	8	25	70-125
cis-1,3-Dichloropropene	50	50	0.0	42	53	84	106	23	25	70-130
m,p-Xylene	100	100	0.0	100	110	100	110	10	25	75-130
n-Butylbenzene	50	50	0.0	49	53	98	106	8	25	70-135
n-Propylbenzene	50	50	0.0	49	52	98	104	6	25	70-130
o-Xylene	50	50	0.0	48	52	96	104	8	25	80-120
tert-Butylbenzene	50	50	0.0	55	59	110	118	7	25	70-130
tert-butyl methyl ether	50	50	0.0	57	62	114	124	8	25	65-125
trans-1,2-dichloroethene	50	50	0.0	58	60	116	120	3	25	60-140
trans-1,3-dichloropropene	50	50	0.0	51	57	102	114	11	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 19 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108811

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : BKSD108811 Matrix : WATER Analysis Date : 03/23/2009

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	QC Limits
1,1,1,2-Tetrachloroethane	50	0.0	52	52	104	104	0	25	80-130
1,1,1-Trichloroethane	50	0.0	58	60	116	120	3	25	65-130
1,1,2,2-Tetrachloroethane	50	0.0	47	50	94	100	6	25	65-130
1,1,2-Trichloroethane	50	0.0	60	49	120	98	20	25	75-125
1,1-Dichloroethane	50	0.0	59	60	116	120	3	25	70-135
1,1-Dichloroethene	50	0.0	54	52	108	104	4	25	70-130
1,1-Dichloropropene	50	0.0	51	50	102	100	2	25	75-130
1,2,3-Trichlorobenzene	50	0.0	55	59	110	118	7	25	55-140
1,2,3-Trichloropropane	50	0.0	48	52	96	104	8	25	75-125
1,2,4-Trichlorobenzene	50	0.0	56	59	112	118	5	25	65-135
1,2,4-Trimethylbenzene	50	0.0	53	54	106	108	2	25	75-130
1,2-Dibromo-3-Chloropropane	50	0.0	45	49	90	98	9	25	50-130
1,2-Dichlorobenzene	50	0.0	58	60	116	120	3	25	70-120
1,2-Dichloroethane	50	0.0	51	52	102	104	2	25	70-130
1,2-Dichloropropane	50	0.0	50	49	100	98	2	25	75-125
1,3,5-trimethylbenzene	50	0.0	52	56	104	112	7	25	75-130
1,3-Dichlorobenzene	50	0.0	56	61	112	122	9	25	75-125
1,3-Dichloropropane	50	0.0	50	42	100	84	17	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 1 Out of 70 Outside Limit
Spike Recovery : 3 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108811

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108811

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
1,4-Dichlorobenzene	50	0.0	58	62	116	124	7	25	75-125
2,2-Dichloropropane	50	0.0	56	55	112	110	2	25	70-135
2-Butanone	100	0.0	16	100	16 *	100	145 *	25	30-150
2-Chlorotoluene	50	0.0	60	60	120	120	0	25	75-125
2-Hexanone	100	0.0	77	81	77	81	5	25	55-130
4-Chlorotoluene	50	0.0	56	58	112	116	4	25	75-130
4-Isopropyltoluene	50	0.0	57	60	114	120	5	25	75-130
4-Methyl-2-Pentanone	100	0.0	69	71	69	71	3	25	60-135
Acetone	100	0.0	120	110	120	110	9	25	40-140
Benzene	50	0.0	47	48	94	96	2	25	80-120
Bromobenzene	50	0.0	58	60	116	120	3	25	75-125
Bromochloromethane	50	0.0	60	59	120	118	2	25	65-130
Bromodichloromethane	50	0.0	49	50	98	100	2	25	75-120
Bromoform	50	0.0	48	47	96	94	2	25	70-130
Bromomethane	50	0.0	60	67	120	132	10	25	30-145
Carbon Disulfide	50	0.0	51	52	102	104	2	25	35-160
Carbon Tetrachloride	50	0.0	58	58	116	116	0	25	65-140
Chlorobenzene	50	0.0	53	55	106	110	4	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 1 Out of 70 Outside Limit
Spike Recovery : 3 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108811

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108811

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Chloroethane	50	0.0	47	51	94	102	8	25	60-135
Chloroform	50	0.0	54	56	108	112	4	25	65-135
Chloromethane	50	0.0	67	61	134 *	122	9	25	40-125
Cyclohexane	50	0.0	53	55	104	110	6	25	50-120
Dibromochloromethane	50	0.0	54	54	108	108	0	25	60-135
Dibromomethane	50	0.0	52	52	104	104	0	25	75-125
Dichlorodifluoromethane	50	0.0	55	55	110	110	0	25	30-155
Ethylbenzene	50	0.0	50	52	100	104	4	25	75-125
Ethylene DiBromide	50	0.0	49	50	98	100	2	25	80-120
Freon 113	50	0.0	60	60	120	120	0	25	70-130
Hexachlorobutadiene	50	0.0	51	56	102	112	9	25	50-140
Isopropylbenzene	50	0.0	53	57	106	114	7	25	75-125
Methyl Acetate	50	0.0	59	66	118	132 *	11	25	50-120
Methylcyclohexane	50	0.0	54	57	108	114	5	25	50-120
Methylene Chloride	50	0.0	51	52	102	104	2	25	55-140
Naphthalene	50	0.0	50	56	100	110	10	25	55-140
Sec-Butylbenzene	50	0.0	53	56	106	112	6	25	70-125
Styrene	50	0.0	52	54	104	108	4	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 1 Out of 70 Outside Limit
Spike Recovery : 3 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108811

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108811

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Tetrachloroethylene	50	0.0	59	56	118	112	5	25	45-150
Toluene	50	0.0	54	58	108	116	7	25	75-120
Trichloroethene	50	0.0	46	48	92	96	4	25	70-125
Trichlorofluoromethane	50	0.0	64	72	128	144	12	25	60-145
Vinyl Acetate	50	0.0	43	43	86	86	0	25	41-139
Vinyl Chloride	50	0.0	48	51	96	102	6	25	50-145
cis-1,2-Dichloroethene	50	0.0	53	54	106	108	2	25	70-125
cis-1,3-Dichloropropene	50	0.0	44	44	86	88	2	25	70-130
m,p-Xylene	100	0.0	100	100	100	100	0	25	75-130
n-Butylbenzene	50	0.0	52	54	104	108	4	25	70-135
n-Propylbenzene	50	0.0	52	55	104	110	6	25	70-130
o-Xylene	50	0.0	52	54	104	108	4	25	80-120
tert-Butylbenzene	50	0.0	54	58	108	116	7	25	70-130
tert-butyl methyl ether	50	0.0	56	57	112	114	2	25	65-125
trans-1,2-dichloroethene	50	0.0	52	55	104	110	6	25	60-140
trans-1,3-dichloropropene	50	0.0	58	50	116	100	15	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 1 Out of 70 Outside Limit
Spike Recovery : 3 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108821

Lab Name : GPL Laboratories SDG NO : 903069 Method : SW8260LL

Lab Code : GPL Lab Sample ID : BKSD108821 Matrix : WATER Analysis Date : 03/23/2009

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	QC Limits
1,1,1,2-Tetrachloroethane	50	0.0	57	56	114	112	2	25	80-130
1,1,1-Trichloroethane	50	0.0	57	56	114	112	2	25	65-130
1,1,2,2-Tetrachloroethane	50	0.0	50	53	100	106	6	25	65-130
1,1,2-Trichloroethane	50	0.0	61	62	122	124	2	25	75-125
1,1-Dichloroethane	50	0.0	57	56	114	112	2	25	70-135
1,1-Dichloroethene	50	0.0	53	50	104	100	4	25	70-130
1,1-Dichloropropene	50	0.0	50	51	100	102	2	25	75-130
1,2,3-Trichlorobenzene	50	0.0	61	60	122	120	2	25	55-140
1,2,3-Trichloropropane	50	0.0	50	56	100	112	11	25	75-125
1,2,4-Trichlorobenzene	50	0.0	61	58	120	116	3	25	65-135
1,2,4-Trimethylbenzene	50	0.0	54	53	108	106	2	25	75-130
1,2-Dibromo-3-Chloropropane	50	0.0	50	57	100	114	13	25	50-130
1,2-Dichlorobenzene	50	0.0	59	58	118	116	2	25	70-120
1,2-Dichloroethane	50	0.0	51	50	102	100	2	25	70-130
1,2-Dichloropropane	50	0.0	50	51	100	102	2	25	75-125
1,3,5-trimethylbenzene	50	0.0	54	54	108	108	0	25	75-130
1,3-Dichlorobenzene	50	0.0	60	60	120	120	0	25	75-125
1,3-Dichloropropane	50	0.0	50	52	100	104	4	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108821

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108821

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
1,4-Dichlorobenzene	50	0.0	60	60	120	120	0	25	75-125
2,2-Dichloropropane	50	0.0	54	52	108	104	4	25	70-135
2-Butanone	100	0.0	96	99	96	99	3	25	30-150
2-Chlorotoluene	50	0.0	56	56	112	110	2	25	75-125
2-Hexanone	100	0.0	91	96	91	96	5	25	55-130
4-Chlorotoluene	50	0.0	56	56	112	112	0	25	75-130
4-Isopropyltoluene	50	0.0	59	59	118	118	0	25	75-130
4-Methyl-2-Pentanone	100	0.0	92	98	92	98	6	25	60-135
Acetone	100	0.0	93	86	92	86	7	25	40-140
Benzene	50	0.0	48	48	96	96	0	25	80-120
Bromobenzene	50	0.0	60	60	120	120	0	25	75-125
Bromochloromethane	50	0.0	62	65	124	130	5	25	65-130
Bromodichloromethane	50	0.0	59	49	118	98	19	25	75-120
Bromoform	50	0.0	59	60	116	120	3	25	70-130
Bromomethane	50	0.0	120	140	240 *	280 *	15	25	30-145
Carbon Disulfide	50	0.0	46	44	92	88	4	25	35-160
Carbon Tetrachloride	50	0.0	62	61	124	122	2	25	65-140
Chlorobenzene	50	0.0	52	53	104	106	2	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108821

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108821

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Chloroethane	50	0.0	86	90	172 *	180 *	5	25	60-135
Chloroform	50	0.0	53	54	106	108	2	25	65-135
Chloromethane	50	0.0	47	48	92	96	4	25	40-125
Cyclohexane	50	0.0	51	51	100	102	2	25	50-120
Dibromochloromethane	50	0.0	53	52	106	104	2	25	60-135
Dibromomethane	50	0.0	51	50	102	100	2	25	75-125
Dichlorodifluoromethane	50	0.0	57	50	114	100	13	25	30-155
Ethylbenzene	50	0.0	50	49	100	98	2	25	75-125
Ethylene DiBromide	50	0.0	49	50	98	100	2	25	80-120
Freon 113	50	0.0	64	61	128	122	5	25	70-130
Hexachlorobutadiene	50	0.0	65	59	130	118	10	25	50-140
Isopropylbenzene	50	0.0	53	53	106	106	0	25	75-125
Methyl Acetate	50	0.0	44	56	88	112	24	25	50-120
Methylcyclohexane	50	0.0	55	54	108	108	0	25	50-120
Methylene Chloride	50	0.0	48	45	96	90	6	25	55-140
Naphthalene	50	0.0	55	60	110	120	9	25	55-140
Sec-Butylbenzene	50	0.0	56	54	110	108	2	25	70-125
Styrene	50	0.0	51	51	102	102	0	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108821

Lab Name : GPL Laboratories SDG NO : 903069

Lab Code : GPL Lab Sample ID : BKSD108821

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Tetrachloroethylene	50	0.0	61	58	122	116	5	25	45-150
Toluene	50	0.0	63	63	126 *	126 *	0	25	75-120
Trichloroethene	50	0.0	49	48	98	96	2	25	70-125
Trichlorofluoromethane	50	0.0	64	51	128	102	23	25	60-145
Vinyl Acetate	50	0.0	43	42	86	84	2	25	41-139
Vinyl Chloride	50	0.0	44	44	88	86	2	25	50-145
cis-1,2-Dichloroethene	50	0.0	48	49	96	98	2	25	70-125
cis-1,3-Dichloropropene	50	0.0	61	61	122	122	0	25	70-130
m,p-Xylene	100	0.0	110	110	110	110	0	25	75-130
n-Butylbenzene	50	0.0	53	51	106	102	4	25	70-135
n-Propylbenzene	50	0.0	52	51	104	102	2	25	70-130
o-Xylene	50	0.0	51	51	102	102	0	25	80-120
tert-Butylbenzene	50	0.0	56	56	112	112	0	25	70-130
tert-butyl methyl ether	50	0.0	57	58	114	116	2	25	65-125
trans-1,2-dichloroethene	50	0.0	52	52	104	104	0	25	60-140
trans-1,3-dichloropropene	50	0.0	59	61	118	122	3	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 6 Out of 140 outside limit

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108826

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108826
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	59	118	80-130
1,1,1-Trichloroethane	50	0	60	120	65-130
1,1,2,2-Tetrachloroethane	50	0	50	100	65-130
1,1,2-Trichloroethane	50	0	63	126 *	75-125
1,1-Dichloroethane	50	0	58	116	70-135
1,1-Dichloroethene	50	0	52	104	70-130
1,1-Dichloropropene	50	0	52	104	75-130
1,2,3-Trichlorobenzene	50	0	60	120	55-140
1,2,3-Trichloropropane	50	0	52	104	75-125
1,2,4-Trichlorobenzene	50	0	59	118	65-135
1,2,4-Trimethylbenzene	50	0	56	112	75-130
1,2-Dibromo-3-Chloropropane	50	0	45	90	50-130
1,2-Dichlorobenzene	50	0	60	120	70-120
1,2-Dichloroethane	50	0	53	106	70-130
1,2-Dichloropropane	50	0	52	104	75-125
1,3,5-trimethylbenzene	50	0	55	110	75-130
1,3-Dichlorobenzene	50	0	62	124	75-125
1,3-Dichloropropane	50	0	51	102	75-125
1,4-Dichlorobenzene	50	0	62	124	75-125
2,2-Dichloropropane	50	0	56	112	70-135
2-Butanone	100	0	90	90	30-150
2-Chlorotoluene	50	0	58	116	75-125
2-Hexanone	100	0	87	87	55-130
4-Chlorotoluene	50	0	59	118	75-130
4-Isopropyltoluene	50	0	63	126	75-130

* Values Outside of QC Limits.

Spike recovery : 1 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108826

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108826
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	90	90	60-135
Acetone	100	0	87	87	40-140
Benzene	50	0	50	100	80-120
Bromobenzene	50	0	62	124	75-125
Bromochloromethane	50	0	67	134 *	65-130
Bromodichloromethane	50	0	62	124 *	75-120
Bromoform	50	0	57	114	70-130
Bromomethane	50	0	120	240 *	30-145
Carbon Disulfide	50	0	45	90	35-160
Carbon Tetrachloride	50	0	63	126	65-140
Chlorobenzene	50	0	55	110	80-120
Chloroethane	50	0	69	138 *	60-135
Chloroform	50	0	58	116	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	45	90	50-120
Dibromochloromethane	50	0	55	110	60-135
Dibromomethane	50	0	52	104	75-125
Dichlorodifluoromethane	50	0	41	82	30-155
Ethylbenzene	50	0	52	104	75-125
Ethylene DiBromide	50	0	52	104	80-120
Freon 113	50	0	56	112	70-130
Hexachlorobutadiene	50	0	63	126	50-140
Isopropylbenzene	50	0	55	110	75-125
Methyl Acetate	50	0	42	84	50-120
Methylcyclohexane	50	0	48	96	50-120

* Values Outside of QC Limits.

Spike recovery : 4 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108826

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108826
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	50	100	55-140
Naphthalene	50	0	54	108	55-140
Sec-Butylbenzene	50	0	57	114	70-125
Styrene	50	0	53	106	65-135
Tetrachloroethylene	50	0	61	122	45-150
Toluene	50	0	64	128 *	75-120
Trichloroethene	50	0	49	98	70-125
Trichlorofluoromethane	50	0	51	102	60-145
Vinyl Acetate	50	0	39	78	41-139
Vinyl Chloride	50	0	43	86	50-145
cis-1,2-Dichloroethene	50	0	51	102	70-125
cis-1,3-Dichloropropene	50	0	62	124	70-130
m,p-Xylene	100	0	110	110	75-130
n-Butylbenzene	50	0	55	110	70-135
n-Propylbenzene	50	0	53	106	70-130
o-Xylene	50	0	53	106	80-120
tert-Butylbenzene	50	0	59	118	70-130
tert-butyl methyl ether	50	0	59	118	65-125
trans-1,2-dichloroethene	50	0	55	110	60-140
trans-1,3-dichloropropene	50	0	60	120	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108829

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108829
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	55	110	80-130
1,1,1-Trichloroethane	50	0	56	112	65-130
1,1,2,2-Tetrachloroethane	50	0	47	94	65-130
1,1,2-Trichloroethane	50	0	54	108	75-125
1,1-Dichloroethane	50	0	55	110	70-135
1,1-Dichloroethene	50	0	52	104	70-130
1,1-Dichloropropene	50	0	48	96	75-130
1,2,3-Trichlorobenzene	50	0	61	122	55-140
1,2,3-Trichloropropane	50	0	49	98	75-125
1,2,4-Trichlorobenzene	50	0	58	116	65-135
1,2,4-Trimethylbenzene	50	0	51	102	75-130
1,2-Dibromo-3-Chloropropane	50	0	45	90	50-130
1,2-Dichlorobenzene	50	0	56	112	70-120
1,2-Dichloroethane	50	0	49	98	70-130
1,2-Dichloropropane	50	0	46	92	75-125
1,3,5-trimethylbenzene	50	0	50	100	75-130
1,3-Dichlorobenzene	50	0	58	116	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	57	114	75-125
2,2-Dichloropropane	50	0	50	100	70-135
2-Butanone	100	0	87	87	30-150
2-Chlorotoluene	50	0	54	108	75-125
2-Hexanone	100	0	85	85	55-130
4-Chlorotoluene	50	0	54	108	75-130
4-Isopropyltoluene	50	0	57	114	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108829

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108829
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	86	86	60-135
Acetone	50	0	82	164 *	40-140
Benzene	50	0	46	92	80-120
Bromobenzene	50	0	58	116	75-125
Bromochloromethane	50	0	62	124	65-130
Bromodichloromethane	50	0	46	92	75-120
Bromoform	50	0	54	108	70-130
Bromomethane	50	0	130	260 *	30-145
Carbon Disulfide	50	0	46	92	35-160
Carbon Tetrachloride	50	0	61	122	65-140
Chlorobenzene	50	0	50	100	80-120
Chloroethane	50	0	50	100	60-135
Chloroform	50	0	52	104	65-135
Chloromethane	50	0	47	94	40-125
Cyclohexane	50	0	44	88	50-120
Dibromochloromethane	50	0	51	102	60-135
Dibromomethane	50	0	48	96	75-125
Dichlorodifluoromethane	50	0	44	88	30-155
Ethylbenzene	50	0	47	94	75-125
Ethylene DiBromide	50	0	46	92	80-120
Freon 113	50	0	57	114	70-130
Hexachlorobutadiene	50	0	59	118	50-140
Isopropylbenzene	50	0	50	100	75-125
Methyl Acetate	50	0	41	82	50-120
Methylcyclohexane	50	0	50	100	50-120

* Values Outside of QC Limits.

Spike recovery : 2 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108829

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903069
Lab Sample ID : BKS108829
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	47	94	55-140
Naphthalene	50	0	55	110	55-140
Sec-Butylbenzene	50	0	52	104	70-125
Styrene	50	0	49	98	65-135
Tetrachloroethylene	50	0	56	112	45-150
Toluene	50	0	55	110	75-120
Trichloroethene	50	0	47	94	70-125
Trichlorofluoromethane	50	0	51	102	60-145
Vinyl Acetate	50	0	150	300 *	41-139
Vinyl Chloride	50	0	44	88	50-145
cis-1,2-Dichloroethene	50	0	50	100	70-125
cis-1,3-Dichloropropene	50	0	53	106	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	48	96	70-135
n-Propylbenzene	50	0	48	96	70-130
o-Xylene	50	0	47	94	80-120
tert-Butylbenzene	50	0	54	108	70-130
tert-butyl methyl ether	50	0	56	112	65-125
trans-1,2-dichloroethene	50	0	52	104	60-140
trans-1,3-dichloropropene	50	0	53	106	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	A62438.D	SDG NO :	903069
Date Analyzed	03/23/2009	Lab Sample ID :	BLK108811
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	13:47

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108811	BKS108811	A62440.D	14:39
BKSD108811	BKSD108811	A62446.D	16:41
OU1-16GW03-0309	903069-004-019-1/3	A62462.D	22:06
OU1-16GW04-0309	903069-006-025-1/3	A62464.D	22:48
OU1-16GW09-0309	903069-001-028-1/3	A62458.D	20:45
OU1-16GW40-0309	903069-002-054-1/9	A62460.D	21:26
OU1-MW48-0309	903069-008-001-1/3	A62466.D	23:28

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	A62437.D	SDG NO :	903069
Date Analyzed	03/23/2009	Lab Sample ID :	BLK108821
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	13:26

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108821	BKS108821	A62439.D	14:18
BKSD108821	BKSD108821	A62445.D	16:20
OU1-16GW41-0309	903069-003-016-1/3	A62461.D	21:46
OU1-16GW42-0309	903069-005-022-1/3	A62463.D	22:27

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	A62475.D	SDG NO :	903069
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108826
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:06

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108826	BKS108826	A62473.D	10:25
OU1-MW12-0309	903069-009-004-1/3	A62485.D	15:12
OUI-TB02-0309	903069-010-007-1/3	A62487.D	15:52
OUI-TB03-0309	903069-011-010-1/3	A62489.D	16:56
OUI-TB04-0309	903069-012-013-1/3	A62491.D	17:36

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	A62509.D	SDG NO :	903069
Date Analyzed	03/25/2009	Lab Sample ID :	BLK108829
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	12:19

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108829	BKS108829	A62507.D	11:26
OU1-16GW02-0309	903069-007-045-1/9	A62515.D	14:20
OU1-16GW02-0309MS	903069-007-045-1/9MS	A62527.D	18:37
OU1-16GW02-0309MSD	903069-007-045-1/9MSD	A62529.D	19:18
OU1-16GW04-0309DL	903069-006-026-2/3	A62521.D	16:35
OU1-16GW40-0309DL	903069-002-055-2/9	A62517.D	15:13
OU1-16GW40-0309DLMS	903069-002-055-2/9MS	A62523.D	17:16
OU1-16GW40-0309DLMSD	903069-002-055-2/9MSD	A62525.D	17:57
OU1-16GW42-0309DL	903069-005-023-2/3	A62519.D	15:54

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: GPL LABORATORIES, LLC. Contract: _____

Lab Code: GPLL Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: A62206.D BFB Injection Date: 03/10/09

Instrument ID: HP#A BFB Injection Time: 07:55

GC Column: RTX_624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	51.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.1)1
174	50.0 - 120.0% of mass 95	78.5
175	4.0 - 9.0% of mass 174	5.9 (7.5)1
176	93.0 - 101.0% of mass 174	79.2 (100.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL01	CAL01	A62208.D	03/10/09	09:10
02	CAL05	CAL05	A62210.D	03/10/09	09:51
03	CAL20	CAL20	A62212.D	03/10/09	11:24
04	CAL50	CAL50	A62214.D	03/10/09	12:04
05	CAL100	CAL100	A62216.D	03/10/09	13:09
06	CAL200	CAL200	A62220.D	03/10/09	14:43
07	ICV50	BKS/ICV50	A62242.D	03/11/09	12:15

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : General Physics Corp.

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903020

Lab File ID: A62205.D BFB Injection Date : 03/10/2009 BFB Injection Time : 07:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.6	(.8)1
174	50.0 - 120.0% of mass 95	79.6	
175	5.0 - 9.0% of mass 174	5.9	(7.4)1
176	95.0 - 101.0% of mass 174	77.5	(97.3)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL01	CAL01	A62207.D	03/10/2009	08:49
2	CAL05	CAL05	A62209.D	03/10/2009	09:30
3	CAL20	CAL20	A62211.D	03/10/2009	11:03
4	CAL50	CAL50	A62213.D	03/10/2009	11:44
5	CAL100	CAL100	A62215.D	03/10/2009	12:49
6	CAL200	CAL200	A62219.D	03/10/2009	14:22
7	BLK108667	BLK108667	A62221.D	03/10/2009	15:35
8	BKS108667	BKS108667	A62223.D	03/10/2009	16:25
9	TB-030409	903020-001-001-1/2	A62225.D	03/10/2009	17:06
10	EFFg-030409	903020-004-003-1/3	A62227.D	03/10/2009	17:46
11	ACU2-030409	903020-005-006-1/3	A62229.D	03/10/2009	18:27
12	ACU1-030409	903020-006-009-1/3	A62231.D	03/10/2009	19:08

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62434.D BFB Injection Date : 03/23/2009 BFB Injection Time : 11:49

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.1	
75	30.0 - 60.0% of mass 95	52.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	5.9	
173	Less than 2.0% of mass 174	1.0	(1.1)1
174	50.0 - 120.0% of mass 95	88.4	
175	5.0 - 9.0% of mass 174	6.9	(7.8)1
176	95.0 - 101.0% of mass 174	85.0	(96.1)1
177	5.0 - 9.0% of mass 176	5.6	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL50	CAL50	A62436.D	03/23/2009	12:53
2	BLK108811	BLK108811	A62438.D	03/23/2009	13:47
3	BKS108811	BKS108811	A62440.D	03/23/2009	14:39
4	BKSD108811	BKSD108811	A62446.D	03/23/2009	16:41
5	OU1-16GW09-0309	903069-001-028-1/3	A62458.D	03/23/2009	20:45
6	OU1-16GW40-0309	903069-002-054-1/9	A62460.D	03/23/2009	21:26
7	OU1-16GW03-0309	903069-004-019-1/3	A62462.D	03/23/2009	22:06
8	OU1-16GW04-0309	903069-006-025-1/3	A62464.D	03/23/2009	22:48
9	OU1-MW48-0309	903069-008-001-1/3	A62466.D	03/23/2009	23:28

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62433.D BFB Injection Date : 03/23/2009 BFB Injection Time : 11:28

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.4	
75	30.0 - 60.0% of mass 95	53.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.1	
173	Less than 2.0% of mass 174	1.3	(1.4)1
174	50.0 - 120.0% of mass 95	87.4	
175	5.0 - 9.0% of mass 174	6.8	(7.8)1
176	95.0 - 101.0% of mass 174	84.8	(97.0)1
177	5.0 - 9.0% of mass 176	6.0	(7.1)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62435.D	03/23/2009	12:32
2	BLK108821	BLK108821	A62437.D	03/23/2009	13:26
3	BKS108821	BKS108821	A62439.D	03/23/2009	14:18
4	BKSD108821	BKSD108821	A62445.D	03/23/2009	16:20
5	OU1-16GW41-0309	903069-003-016-1/3	A62461.D	03/23/2009	21:46
6	OU1-16GW42-0309	903069-005-022-1/3	A62463.D	03/23/2009	22:27

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62467.D BFB Injection Date : 03/24/2009 BFB Injection Time : 07:34

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.7	
75	30.0 - 60.0% of mass 95	51.9	
95	Base peak. 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.3	
173	Less than 2.0% of mass 174	0.8	(.8)1
174	50.0 - 120.0% of mass 95	95.6	
175	5.0 - 9.0% of mass 174	7.6	(7.9)1
176	95.0 - 101.0% of mass 174	91.0	(95.1)1
177	5.0 - 9.0% of mass 176	5.8	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62471.D	03/24/2009	09:22
2	BKS108826	BKS108826	A62473.D	03/24/2009	10:25
3	BLK108826	BLK108826	A62475.D	03/24/2009	11:06
4	OU1-MW12-0309	903069-009-004-1/3	A62485.D	03/24/2009	15:12
5	OUI-TB02-0309	903069-010-007-1/3	A62487.D	03/24/2009	15:52
6	OUI-TB03-0309	903069-011-010-1/3	A62489.D	03/24/2009	16:56
7	OUI-TB04-0309	903069-012-013-1/3	A62491.D	03/24/2009	17:36

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62501.D BFB Injection Date : 03/25/2009 BFB Injection Time : 08:34

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	20.6	
75	30.0 - 60.0% of mass 95	51.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	5.9	
173	Less than 2.0% of mass 174	1.6	(1.7)1
174	50.0 - 120.0% of mass 95	90.9	
175	5.0 - 9.0% of mass 174	7.6	(8.3)1
176	95.0 - 101.0% of mass 174	86.8	(95.6)1
177	5.0 - 9.0% of mass 176	6.2	(7.1)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62505.D	03/25/2009	10:36
2	BKS108829	BKS108829	A62507.D	03/25/2009	11:26
3	BLK108829	BLK108829	A62509.D	03/25/2009	12:19
4	OU1-16GW02-0309	903069-007-045-1/9	A62515.D	03/25/2009	14:20
5	OU1-16GW40-0309DL	903069-002-055-2/9	A62517.D	03/25/2009	15:13
6	OU1-16GW42-0309DL	903069-005-023-2/3	A62519.D	03/25/2009	15:54
7	OU1-16GW04-0309DL	903069-006-026-2/3	A62521.D	03/25/2009	16:35
8	OU1-16GW40-0309DLMS	903069-002-055-2/9MS	A62523.D	03/25/2009	17:16
9	OU1-16GW40-0309DLMSD	903069-002-055-2/9MSD	A62525.D	03/25/2009	17:57
10	OU1-16GW02-0309MS	903069-007-045-1/9MS	A62527.D	03/25/2009	18:37
11	OU1-16GW02-0309MSD	903069-007-045-1/9MSD	A62529.D	03/25/2009	19:18

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62436.D Date Analyzed: 03/23/2009 Time Analyzed: 12:53

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	339842	04.69	407256	07.78	399248	04.56
UPPER LIMIT	679684	05.19	814512	08.28	798496	05.06
LOWER LIMIT	169921	04.19	203628	07.28	199624	04.06
Client Sample						
BKS108811	324038	04.69	390132	07.78	373519	04.57
BKSD108811	277957	04.69	333011	07.78	317703	04.56
BLK108811	305271	04.69	350637	07.78	349822	04.56
OU1-16GW03-0309	237110	04.69	285199	07.78	269220	04.56
OU1-16GW04-0309	238152	04.69	285955	07.78	273856	04.56
OU1-16GW09-0309	236028	04.69	288590	07.78	268312	04.57
OU1-16GW40-0309	257075	04.69	298705	07.78	293870	04.56
OU1-MW48-0309	249646	04.69	286498	07.78	288384	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62435.D Date Analyzed: 03/23/2009 Time Analyzed: 12:32

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	492839	04.68	584106	07.78	563188	04.56
UPPER LIMIT	985678	05.18	1168212	08.28	1126376	05.06
LOWER LIMIT	246420	04.18	292053	07.28	281594	04.06
Client Sample						
BKS108821	438839	04.68	521407	07.78	493685	04.56
BKSD108821	404890	04.68	484072	07.78	456708	04.55
BLK108821	423226	04.68	486520	07.78	493162	04.56
OU1-16GW41-0309	355233	04.67	411035	07.78	392248	04.55
OU1-16GW42-0309	325667	04.68	371775	07.78	370219	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62471.D Date Analyzed: 03/24/2009 Time Analyzed: 09:22

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	415116	04.68	492903	07.78	468610	04.55
UPPER LIMIT	830232	05.18	985806	08.28	937220	05.05
LOWER LIMIT	207558	04.18	246452	07.28	234305	04.05
Client Sample						
BKS108826	424198	04.68	498687	07.78	477603	04.56
BLK108826	400974	04.68	448334	07.78	449301	04.55
OU1-MW12-0309	353666	04.68	413743	07.78	390864	04.55
OUI-TB02-0309	348862	04.68	411492	07.78	381625	04.55
OUI-TB03-0309	359224	04.68	419603	07.78	401570	04.56
OUI-TB04-0309	340297	04.68	399835	07.78	390295	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903069

Lab File ID: A62505.D Date Analyzed: 03/25/2009 Time Analyzed: 10:36

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	445387	04.68	518669	07.78	497022	04.56
UPPER LIMIT	890774	05.18	1037338	08.28	994044	05.06
LOWER LIMIT	222694	04.18	259335	07.28	248511	04.06
Client Sample						
BKS108829	444552	04.68	509762	07.78	490858	04.55
BLK108829	394803	04.68	442600	07.78	433005	04.56
OU1-16GW02-0309	368175	04.68	420476	07.78	406376	04.55
OU1-16GW02-0309MS	398692	04.68	458004	07.78	438634	04.55
OU1-16GW02-0309MSD	404315	04.68	466769	07.78	445643	04.55
OU1-16GW04-0309DL	363605	04.68	406874	07.78	391134	04.55
OU1-16GW40-0309DL	349728	04.68	408879	07.78	391457	04.56
OU1-16GW40-0309DLMS	385081	04.68	437453	07.78	427475	04.55
OU1-16GW40-0309DLMSD	393098	04.68	451928	07.78	439633	04.55
OU1-16GW42-0309DL	364867	04.68	402164	07.78	408931	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-028-1/3
Sample Volume :	5	Lab File ID :	A62458.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-028-1/3
Sample Volume :	5	Lab File ID :	A62458.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-028-1/3
Sample Volume :	5	Lab File ID :	A62458.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62458.D
Acq On : 23 Mar 2009 20:45
Operator : SM
Sample : 903069-001
Misc : OUI-16GW09-0309
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 26 10:32:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.570	96	268312	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	236028	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	288590	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	70085	47.28	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 94.56%			
53) Toluene-d8	6.148	98	248847	47.50	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 95.00%			
75) 4-Bromofluorobenzene	8.881	95	135359	47.26	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.52%			
91) 1,2-Dichlorobenzene-d4	10.085	152	169343	54.20	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 108.40%			

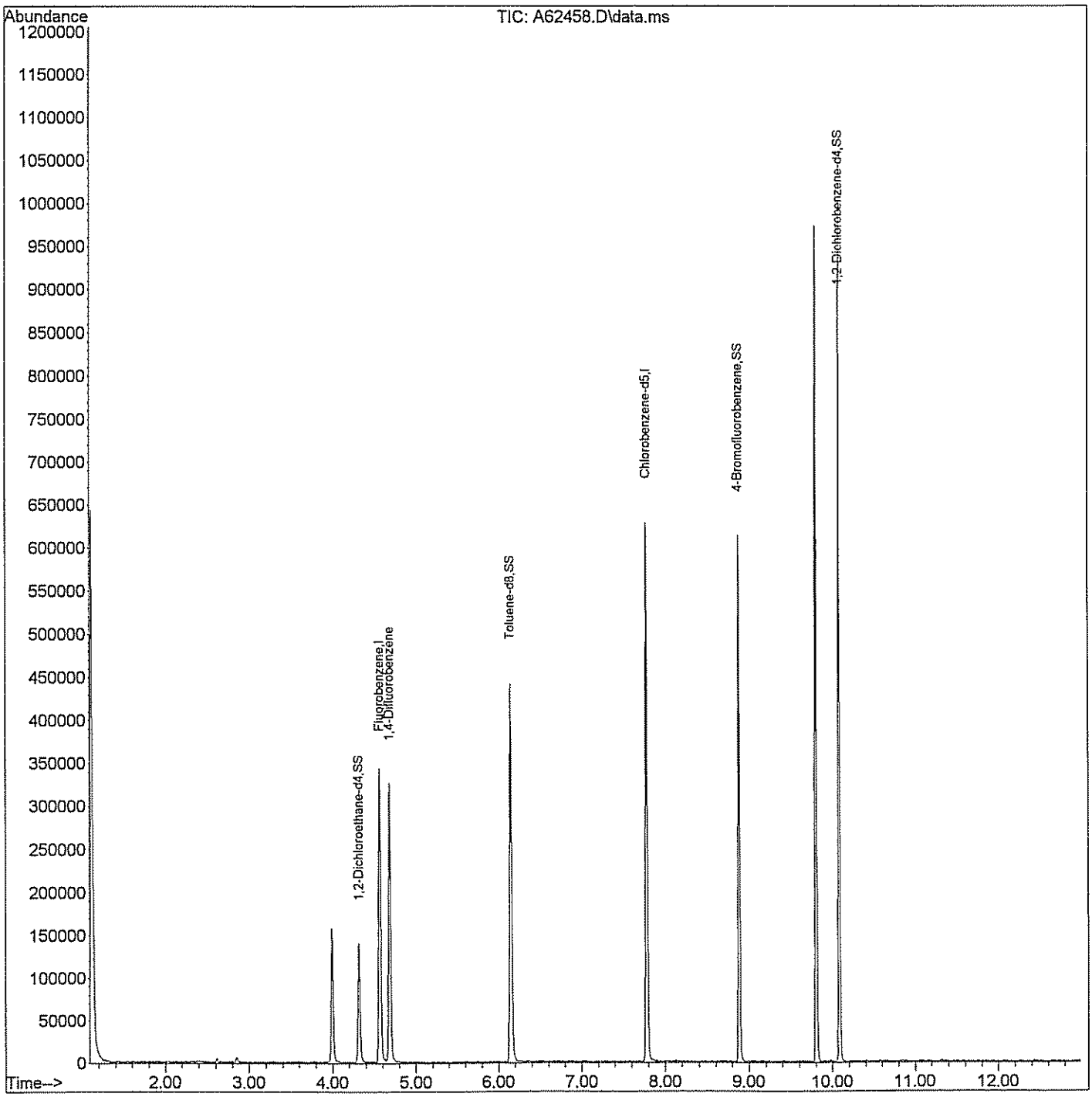
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62458.D
Acq On : 23 Mar 2009 20:45
Operator : SM
Sample : 903069-001
Misc : OUI-16GW09-0309
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 26 10:32:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-054-1/9
Sample Volume :	5	Lab File ID :	A62460.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2.1	
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.8	
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	6.2	
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-054-1/9
Sample Volume :	5	Lab File ID :	A62460.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	230	E
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	8.0	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	11	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-054-1/9
Sample Volume :	5	Lab File ID :	A62460.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	8.8	
156-59-2	cis-1,2-Dichloroethene	16	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.7	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62460.D
Acq On : 23 Mar 2009 21:26
Operator : SM
Sample : 903069-002
Misc : OUI-16GW40-0309,CH2M HILL,WATER
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Mar 26 10:47:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

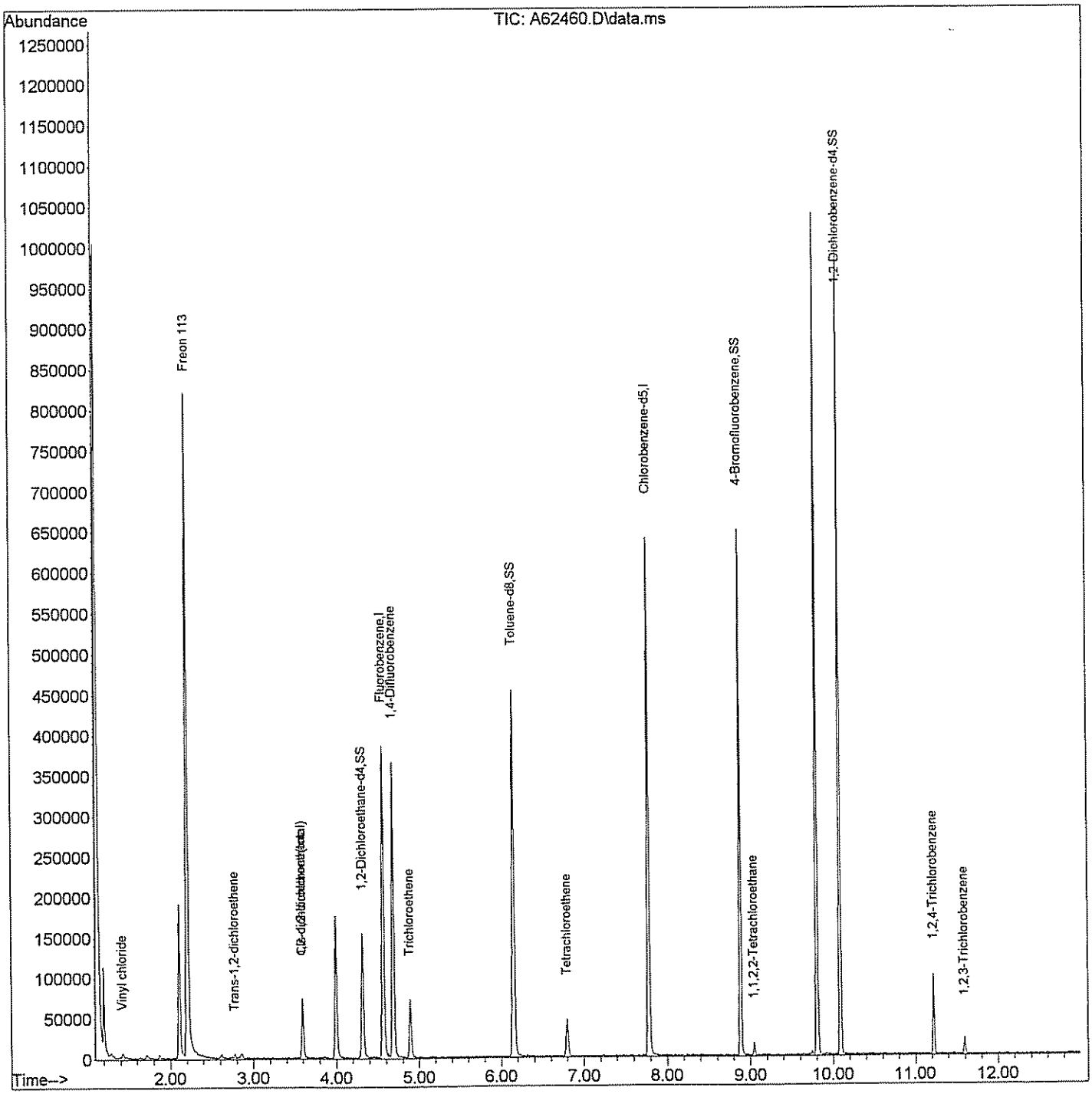
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	293870	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	257075	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	298705	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	75718	46.64	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 93.28%			
53) Toluene-d8	6.148	98	264164	46.30	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 92.60%			
75) 4-Bromofluorobenzene	8.881	95	139885	47.19	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.38%			
91) 1,2-Dichlorobenzene-d4	10.085	152	175445	54.25	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 108.50%			
Target Compounds						Qvalue
4) Vinyl chloride	1.424	62	5749	8.82	ug/L	98
9) Freon 113	2.210	101	230154	230.85	ug/L	89
16) Trans-1,2-dichloroethene	2.777	96	1948	1.66	ug/L #	65
28) Cis-1,2-dichloroethene	3.591	96	22739	16.27	ug/L	90
29) 1,2-dichloroethene(total)	3.591	96	25192m	19.74	ug/L	
46) Trichloroethene	4.891	95	16177	11.39	ug/L #	62
61) Tetrachloroethene	6.795	166	12597	7.98	ug/L	98
77) 1,1,2,2-Tetrachloroethane	9.047	83	4942	2.13	ug/L	88
95) 1,2,4-Trichlorobenzene	11.225	180	19618	6.21	ug/L	98
98) 1,2,3-Trichlorobenzene	11.588	180	5053	1.79	ug/L	99

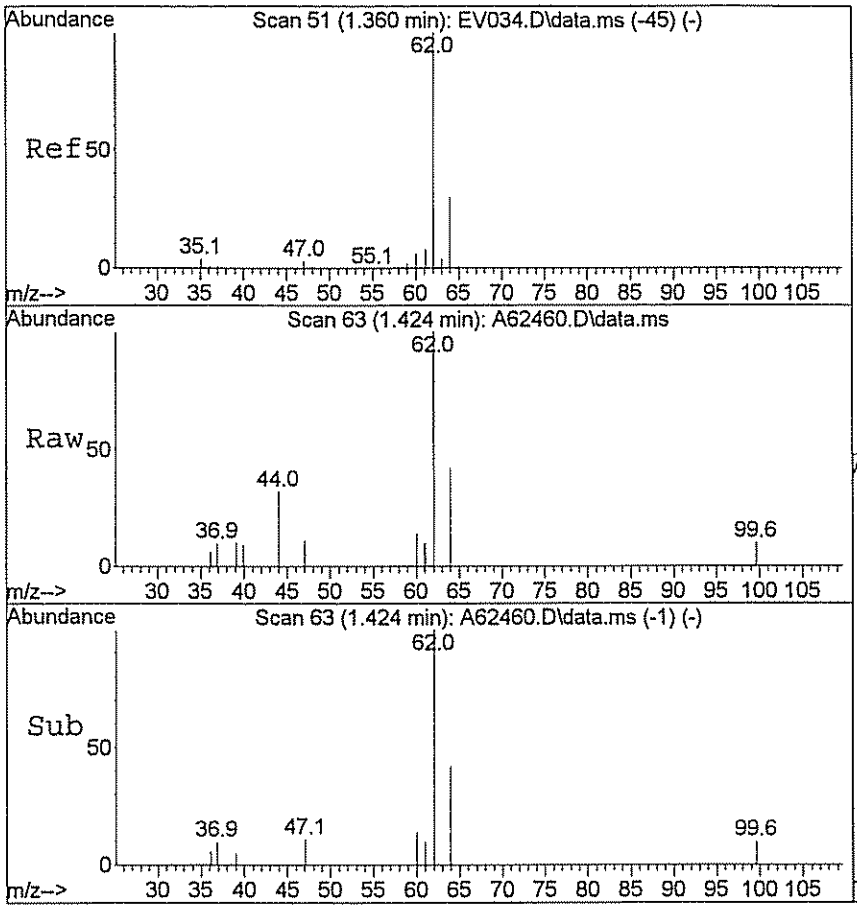
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62460.D
Acq On : 23 Mar 2009 21:26
Operator : SM
Sample : 903069-002
Misc : OUI-16GW40-0309,CH2M HILL,WATER
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Mar 26 10:47:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

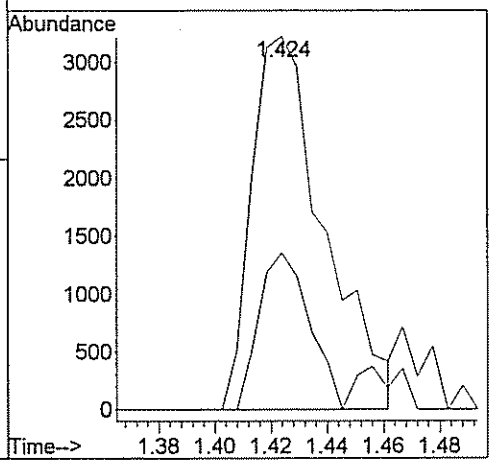


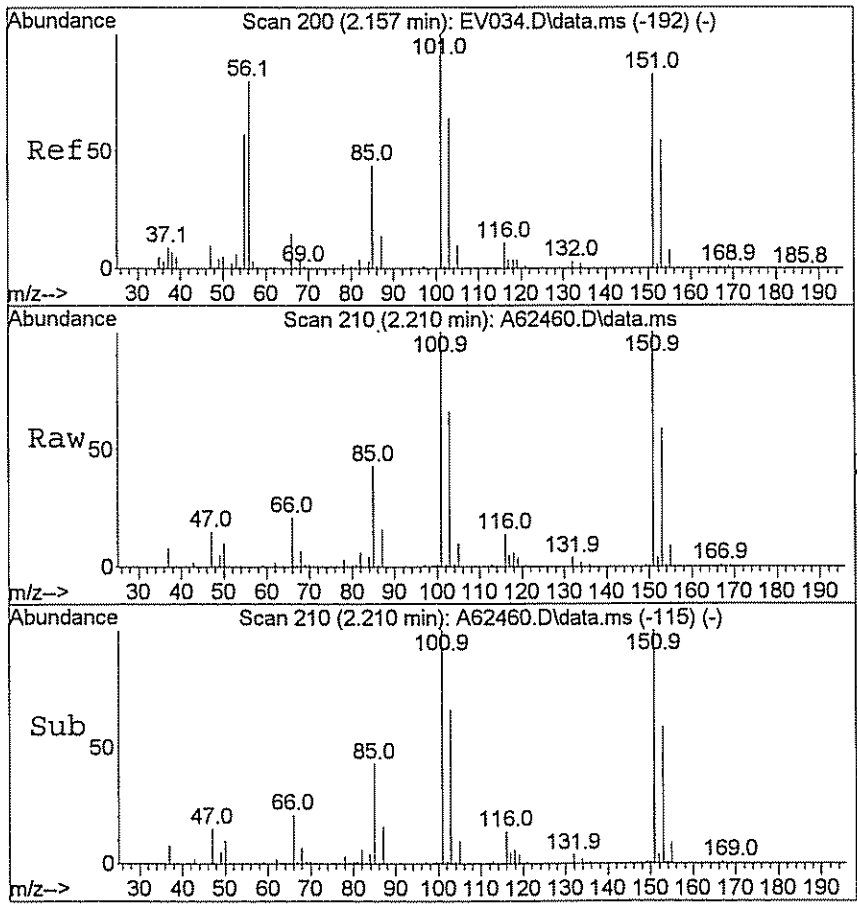


#4
Vinyl chloride
Concen: 8.82 ug/L
RT: 1.424 min Scan# 63
Delta R.T. 0.011 min
Lab File: A62460.D
Acq: 23 Mar 2009 21:26

Tgt Ion: 62 Resp: 5749

Ion	Ratio	Lower	Upper
62	100		
64	29.5	24.5	36.7

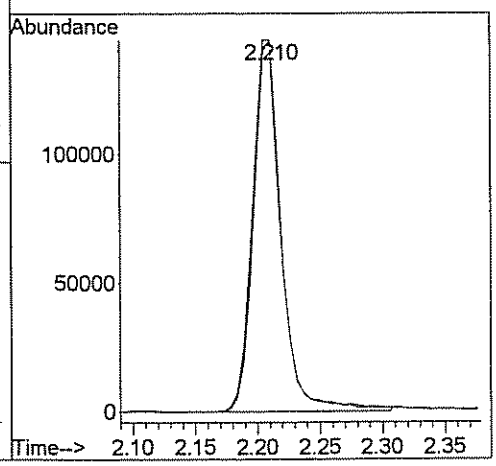


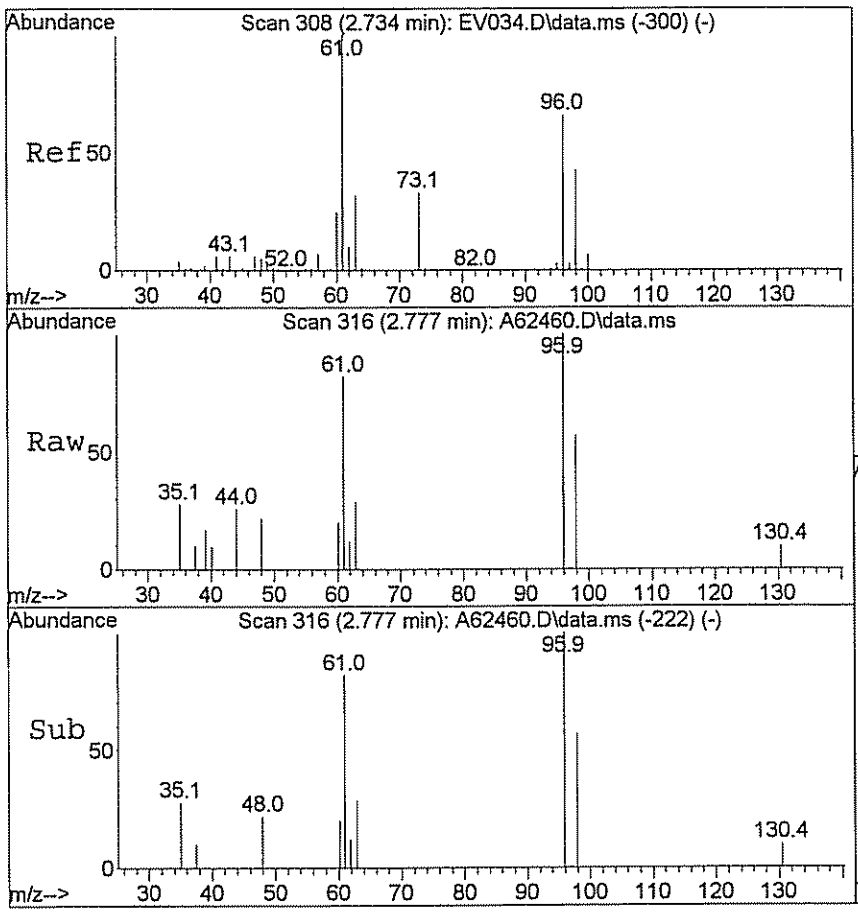


#9
Freon 113
Concen: 230.85 ug/L
RT: 2.210 min Scan# 210
Delta R.T. 0.010 min
Lab File: A62460.D
Acq: 23 Mar 2009 21:26

Tgt Ion:101 Resp: 230154

Ion	Ratio	Lower	Upper
101	100		
151	96.2	69.1	103.7

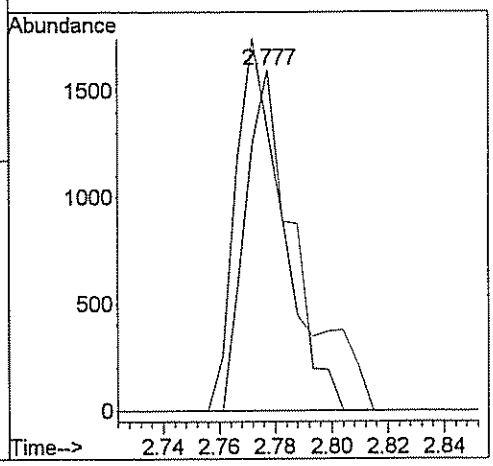


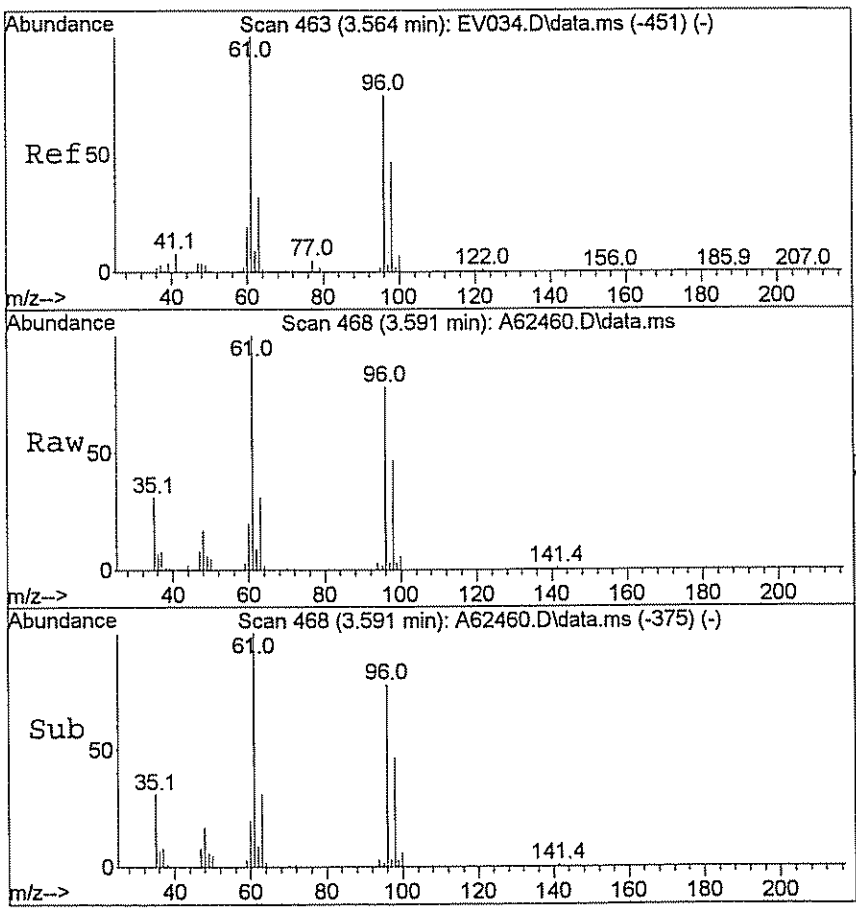


#16
Trans-1,2-dichloroethene
Concen: 1.66 ug/L
RT: 2.777 min Scan# 316
Delta R.T. 0.005 min
Lab File: A62460.D
Acq: 23 Mar 2009 21:26

Tgt Ion: 96 Resp: 1948

Ion	Ratio	Lower	Upper
96	100		
61	109.4	124.0	186.0#

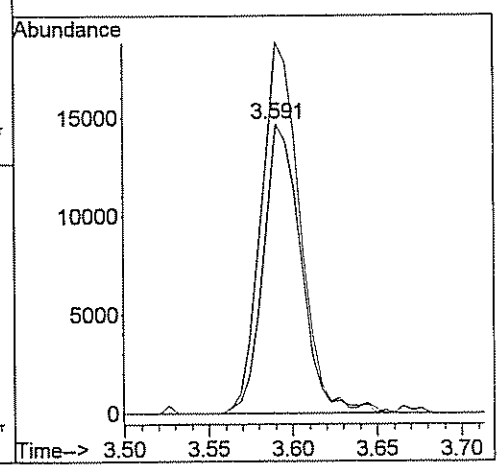


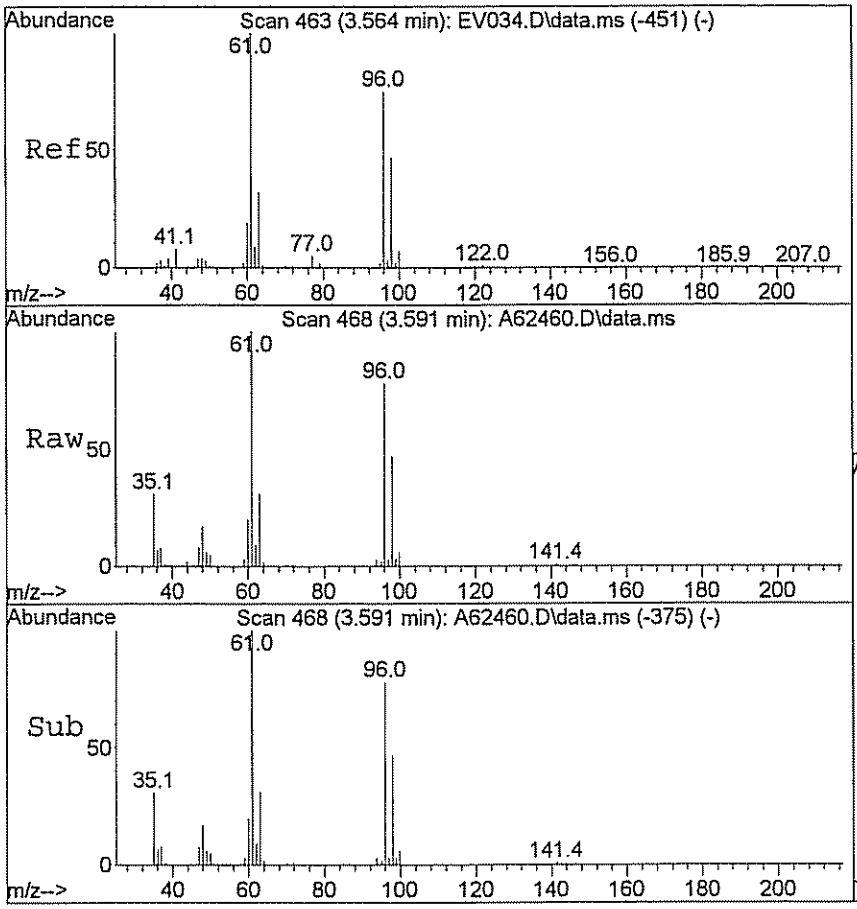


#28
Cis-1,2-dichloroethene
Concen: 16.27 ug/L
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62460.D
Acq: 23 Mar 2009 21:26

Tgt Ion: 96 Resp: 22739

Ion	Ratio	Lower	Upper
96	100		
61	130.8	115.0	172.6

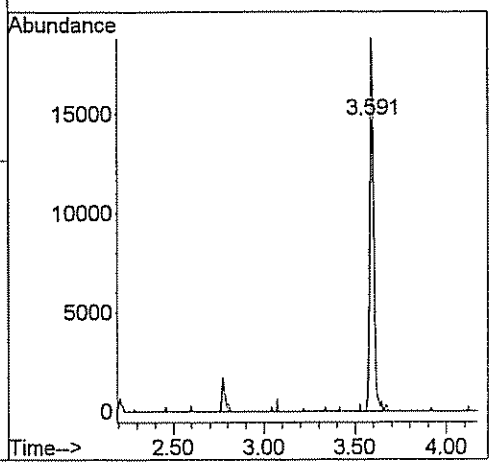


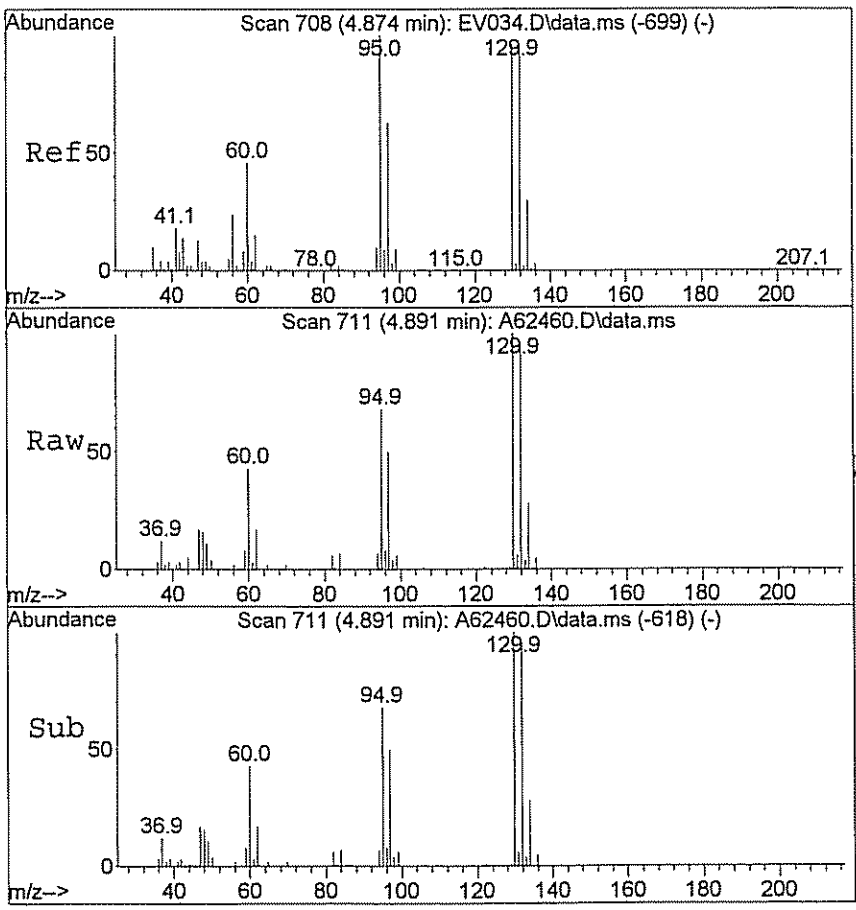


#29
1,2-dichloroethene(total)
Concen: 19.74 ug/L m
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62460.D
Acq: 23 Mar 2009 21:26

Tgt Ion: 96 Resp: 25192

Ion	Ratio	Lower	Upper
96	100		
61	118.1	115.0	172.6

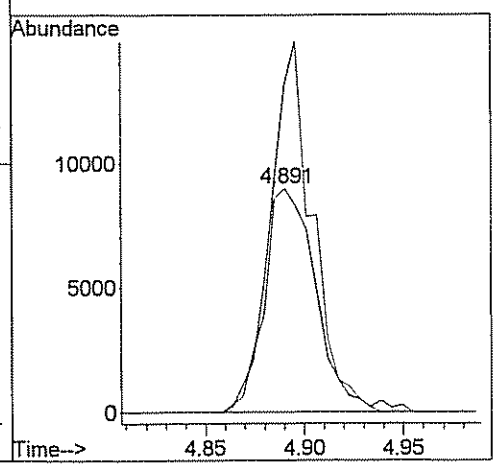


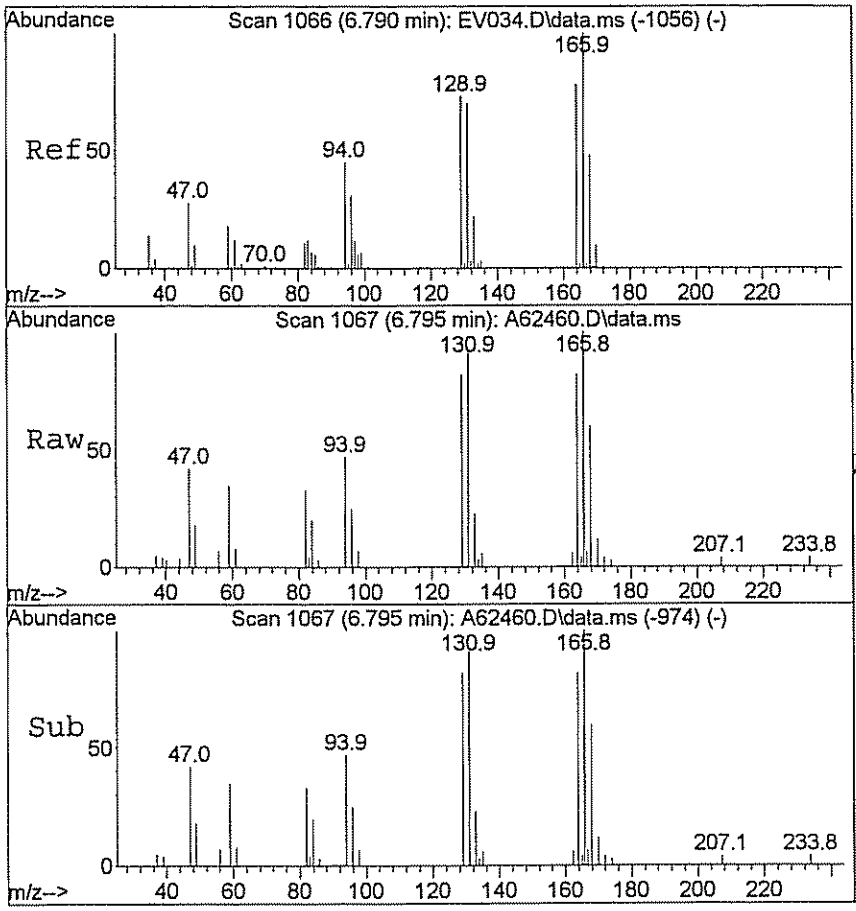


#46
Trichloroethene
Concen: 11.39 ug/L
RT: 4.891 min Scan# 711
Delta R.T. -0.000 min
Lab File: A62460.D
Acq: 23 Mar 2009 21:26

Tgt Ion: 95 Resp: 16177

Ion	Ratio	Lower	Upper
95	100		
130	137.1	79.7	119.5#

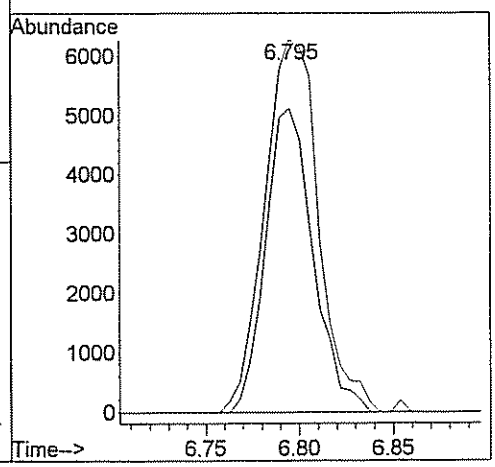


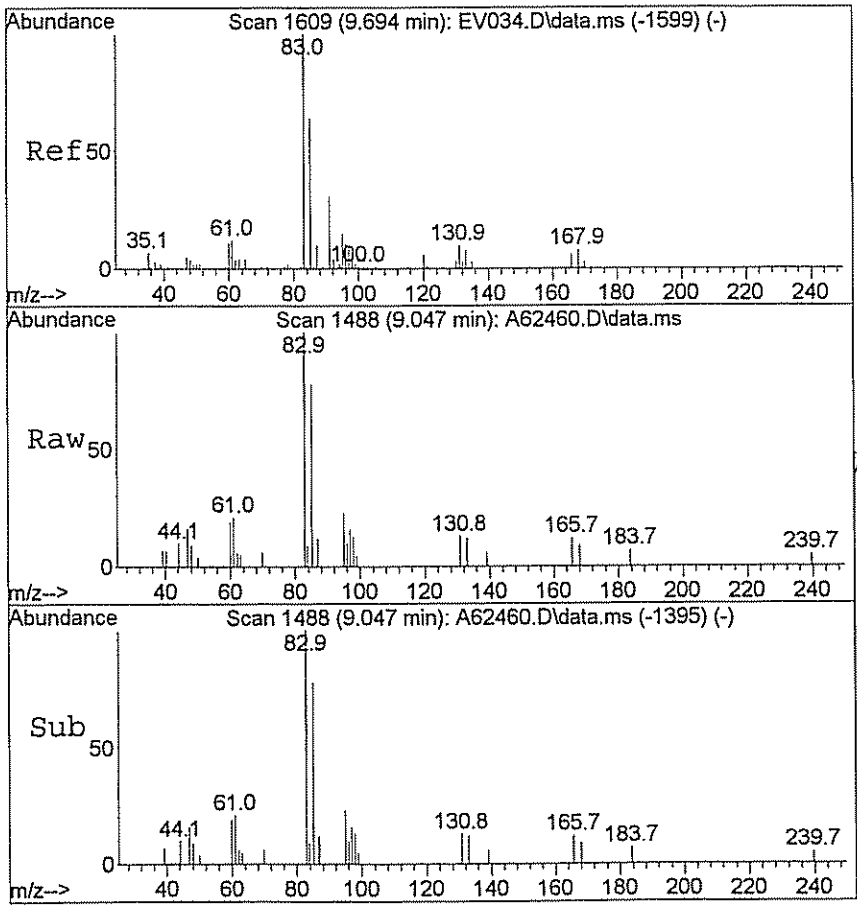


#61
Tetrachloroethene
Concen: 7.98 ug/L
RT: 6.795 min Scan# 1067
Delta R.T. -0.000 min
Lab File: A62460.D
Acq: 23 Mar 2009 21:26

Tgt Ion:166 Resp: 12597

Ion	Ratio	Lower	Upper
166	100		
129	71.7	58.6	88.0

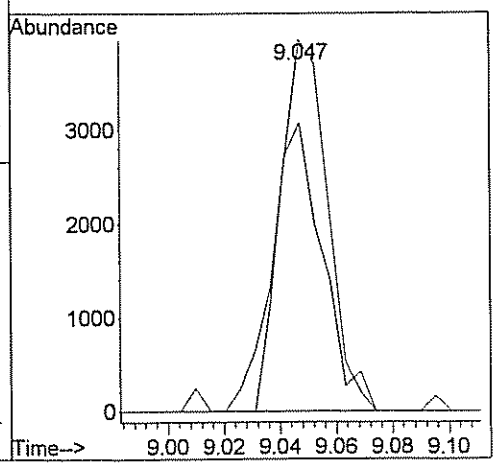


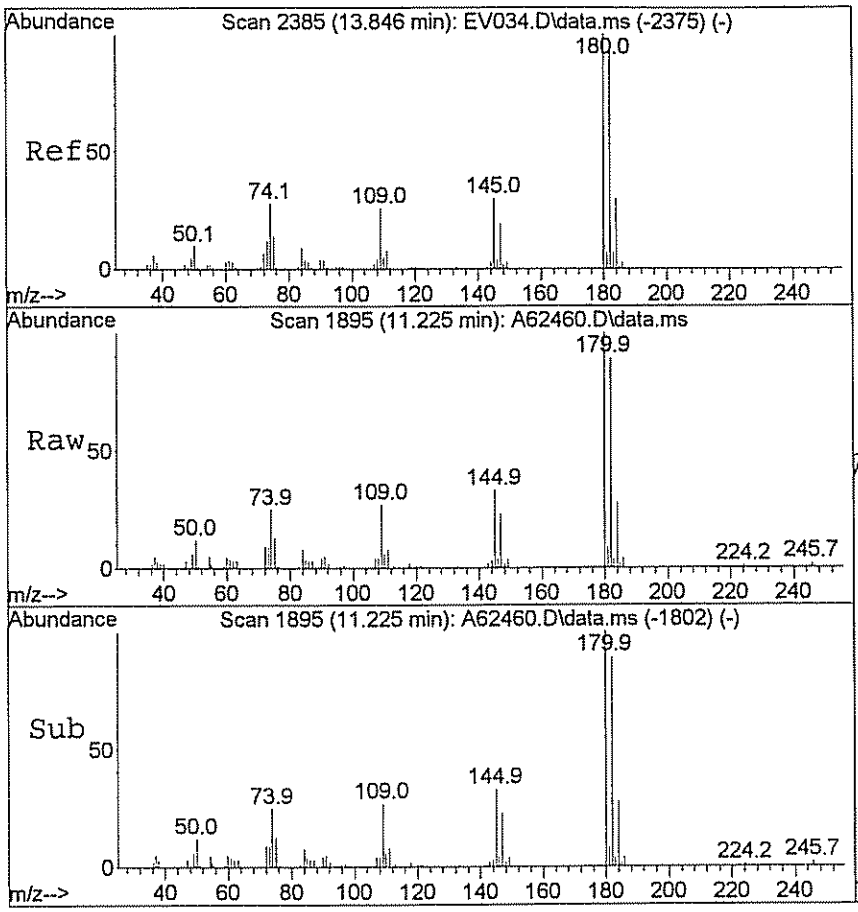


#77
1,1,2,2-Tetrachloroethane
Concen: 2.13 ug/L
RT: 9.047 min Scan# 1488
Delta R.T. -0.000 min
Lab File: A62460.D
Acq: 23 Mar 2009 21:26

Tgt Ion: 83 Resp: 4942

Ion	Ratio	Lower	Upper
83	100		
85	71.7	49.9	74.9

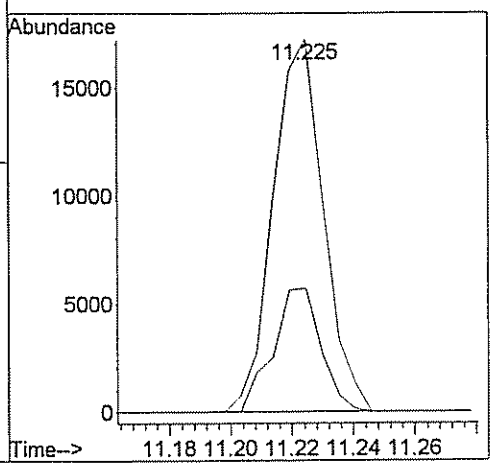


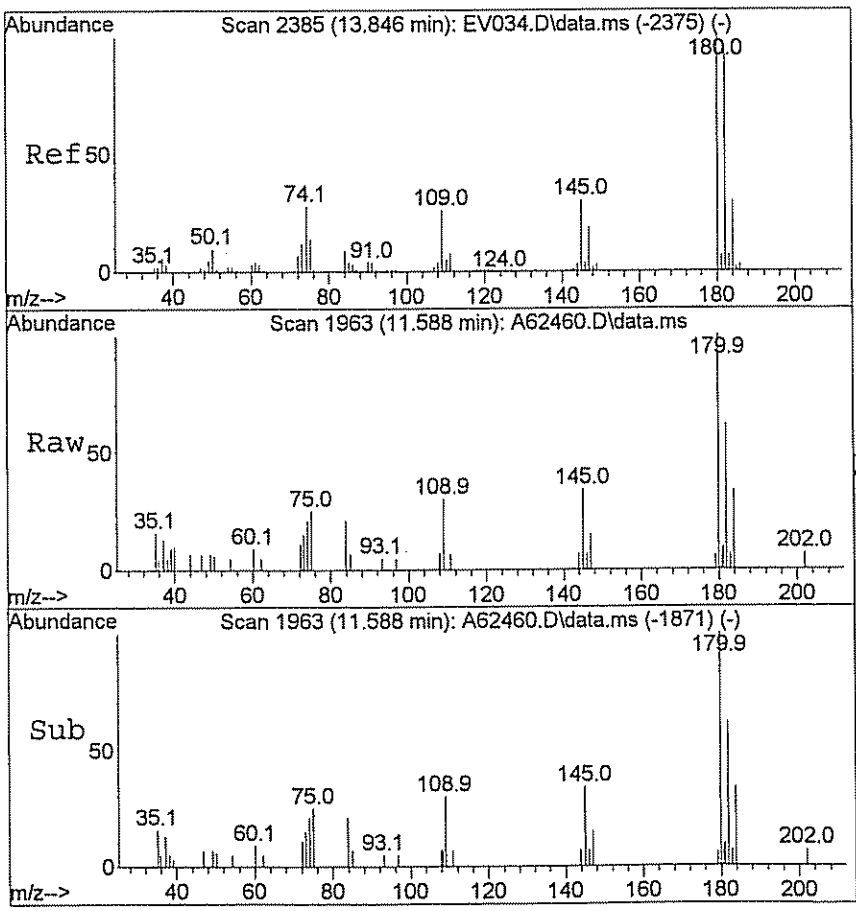


#95
1,2,4-Trichlorobenzene
Concen: 6.21 ug/L
RT: 11.225 min Scan# 1895
Delta R.T. -0.000 min
Lab File: A62460.D
Acq: 23 Mar 2009 21:26

Tgt Ion:180 Resp: 19618

Ion	Ratio	Lower	Upper
180	100		
145	31.5	24.5	36.7

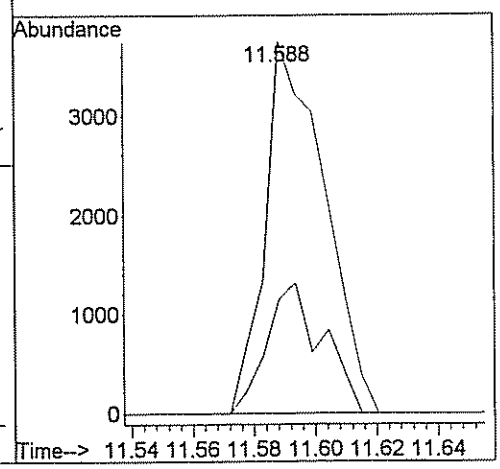




#98
1,2,3-Trichlorobenzene
Concen: 1.79 ug/L
RT: 11.588 min Scan# 1963
Delta R.T. -0.005 min
Lab File: A62460.D
Acq: 23 Mar 2009 21:26

Tgt Ion:180 Resp: 5053

Ion	Ratio	Lower	Upper
180	100		
145	32.5	25.4	38.2



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9
Sample Volume :	.5	Lab File ID :	A62517.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9
Sample Volume :	.5	Lab File ID :	A62517.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	150	
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	10	U
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9
Sample Volume :	.5	Lab File ID :	A62517.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62517.D
Acq On : 25 Mar 2009 15:13
Operator : SM
Sample : 903069-002
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 26 16:39:16 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

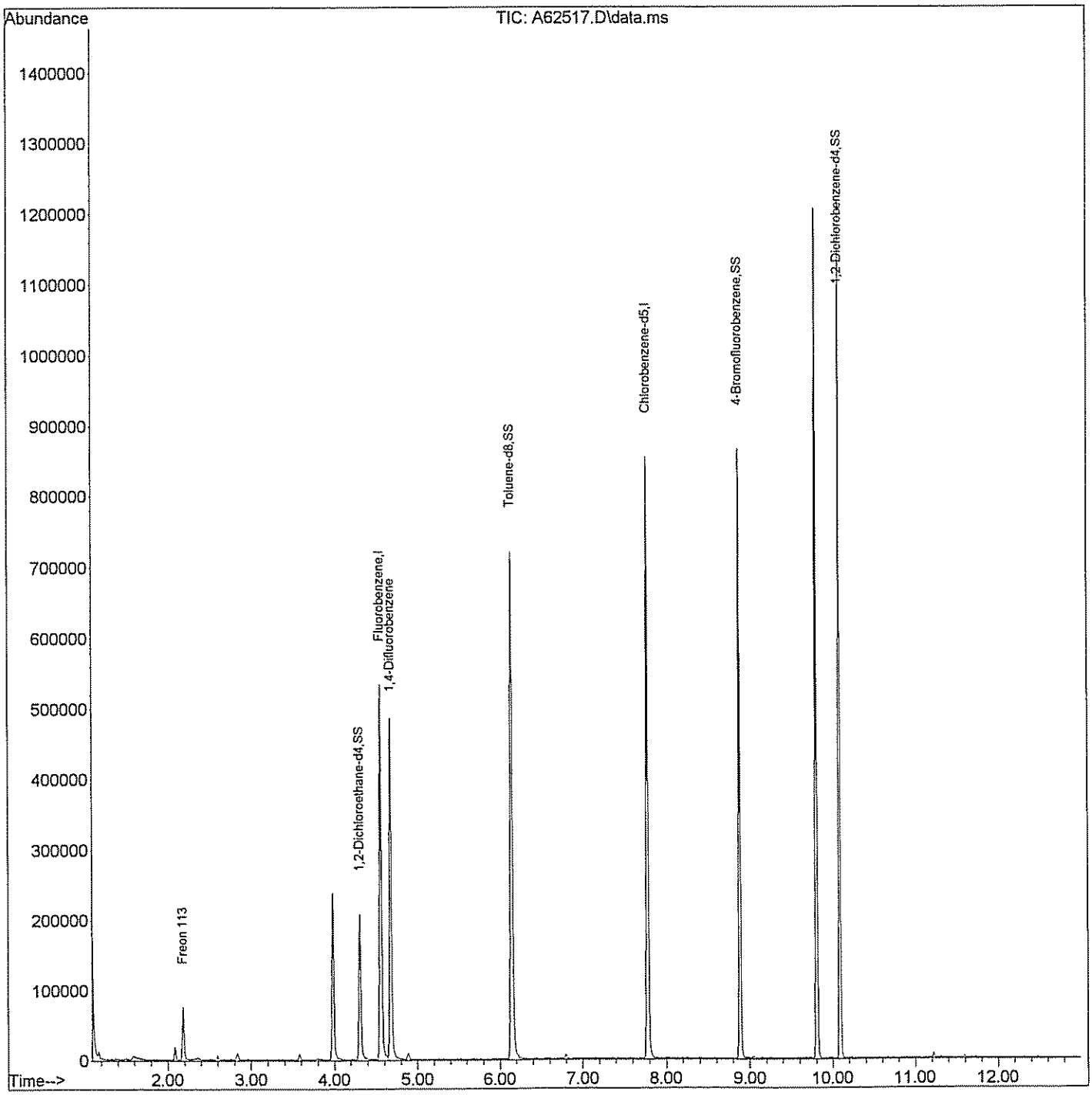
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	391457	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.682	114	349728	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	408879	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	107948	51.91	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.82%			
54) Toluene-d8	6.142	98	458424	56.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 113.14%			
76) 4-Bromofluorobenzene	8.881	95	186797	48.47	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.94%			
92) 1,2-Dichlorobenzene-d4	10.085	152	213680	56.53	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 113.06%			
Target Compounds						Qvalue
9) Freon 113	2.183	101	18197	14.69	ug/L	83

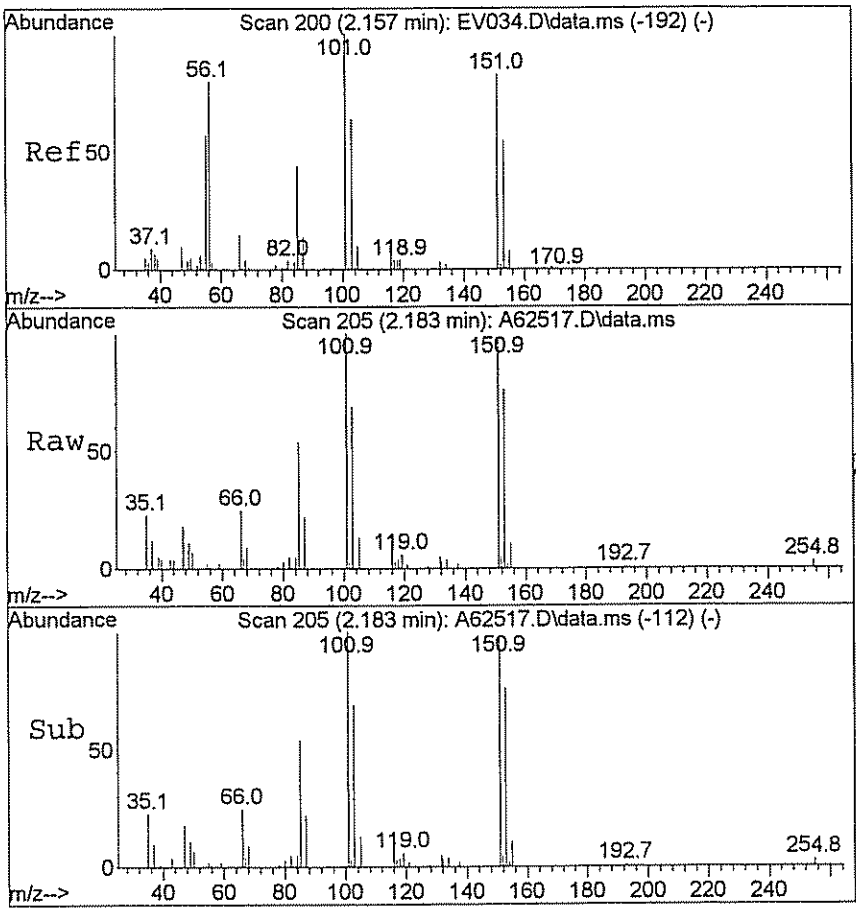
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62517.D
Acq On : 25 Mar 2009 15:13
Operator : SM
Sample : 903069-002
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 26 16:39:16 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

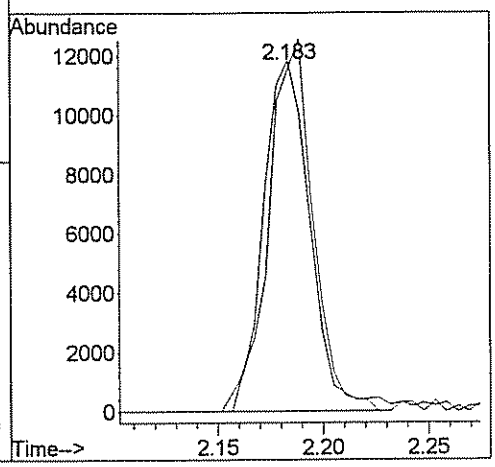




#9
Freon 113
Concen: 14.69 ug/L
RT: 2.183 min Scan# 205
Delta R.T. 0.000 min
Lab File: A62517.D
Acq: 25 Mar 2009 15:13

Tgt Ion:101 Resp: 18197

Ion	Ratio	Lower	Upper
101	100		
151	102.4	69.1	103.7



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-016-1/3
Sample Volume :	5	Lab File ID :	A62461.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-016-1/3
Sample Volume :	5	Lab File ID :	A62461.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	4.0	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-016-1/3
Sample Volume :	5	Lab File ID :	A62461.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	22	
156-59-2	cis-1,2-Dichloroethene	170	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	5.0	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62461.D
Acq On : 23 Mar 2009 21:46
Operator : SM
Sample : 903069-003
Misc : OUI-16GW41-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 26 12:48:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

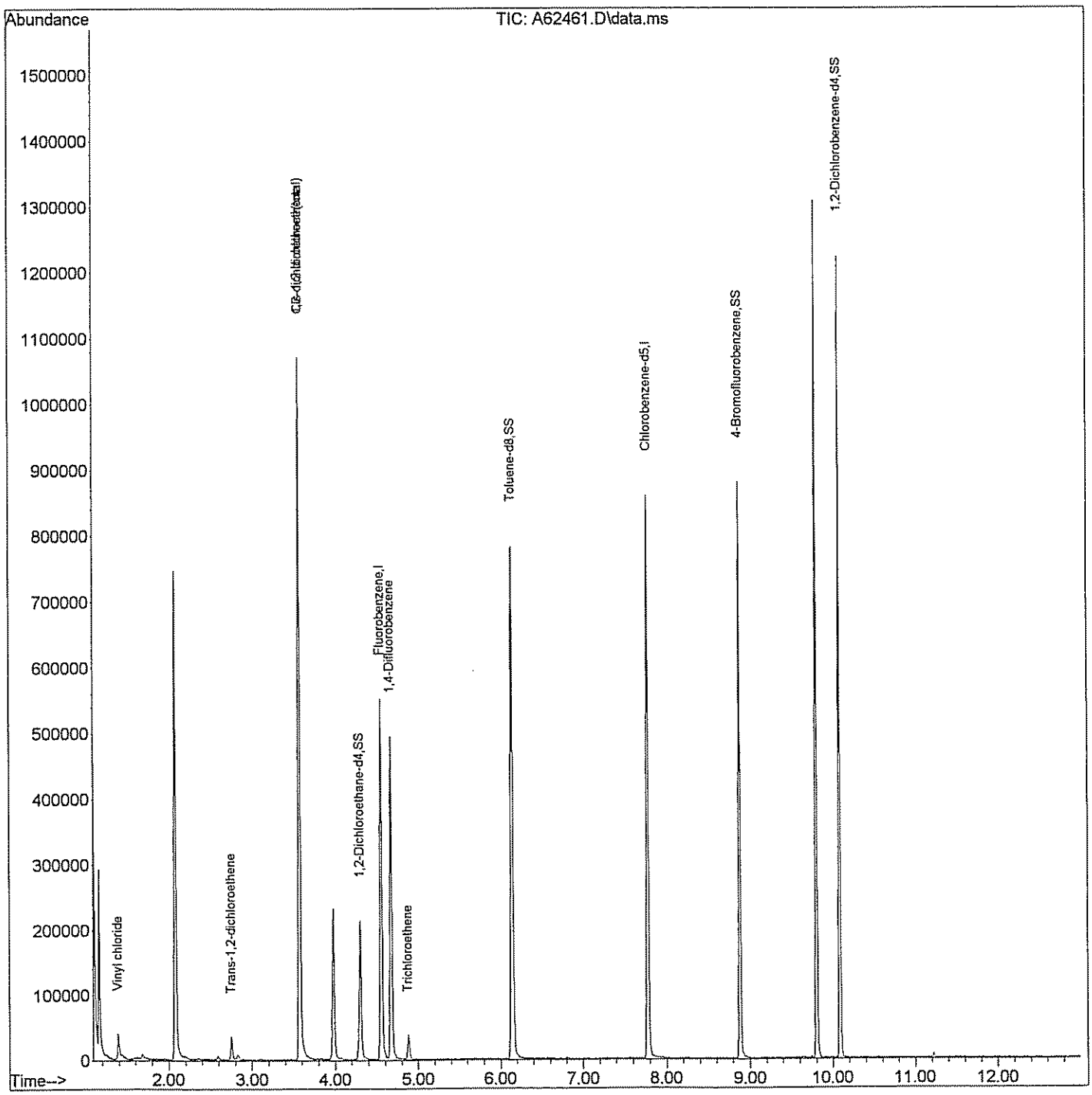
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	392248	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.671	114	355233	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	411035	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	104946	50.36	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.72%			
54) Toluene-d8	6.142	98	488363	59.33	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 118.66%			
76) 4-Bromofluorobenzene	8.881	95	185873	47.97	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.94%			
92) 1,2-Dichlorobenzene-d4	10.085	152	207480	54.60	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 109.20%			
Target Compounds						Qvalue
4) Vinyl chloride	1.386	62	36376	22.41	ug/L	98
16) Trans-1,2-dichloroethene	2.751	96	8140	4.97	ug/L	95
28) Cis-1,2-dichloroethene	3.574	96	344945	173.71	ug/L	87
29) 1,2-dichloroethene(total)	3.574	96	359638m	171.09	ug/L	
47) Trichloroethene	4.880	95	7773	4.03	ug/L #	78

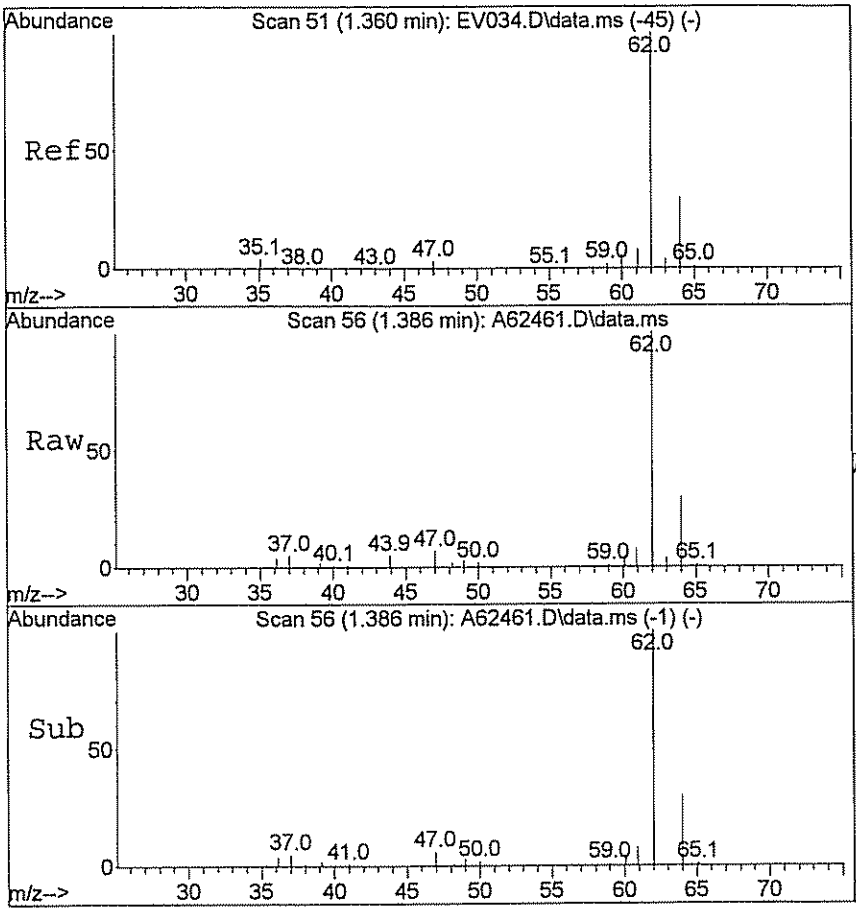
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62461.D
Acq On : 23 Mar 2009 21:46
Operator : SM
Sample : 903069-003
Misc : OUI-16GW41-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 26 12:48:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

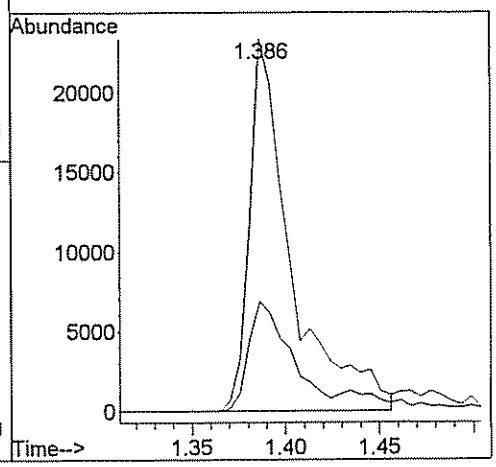


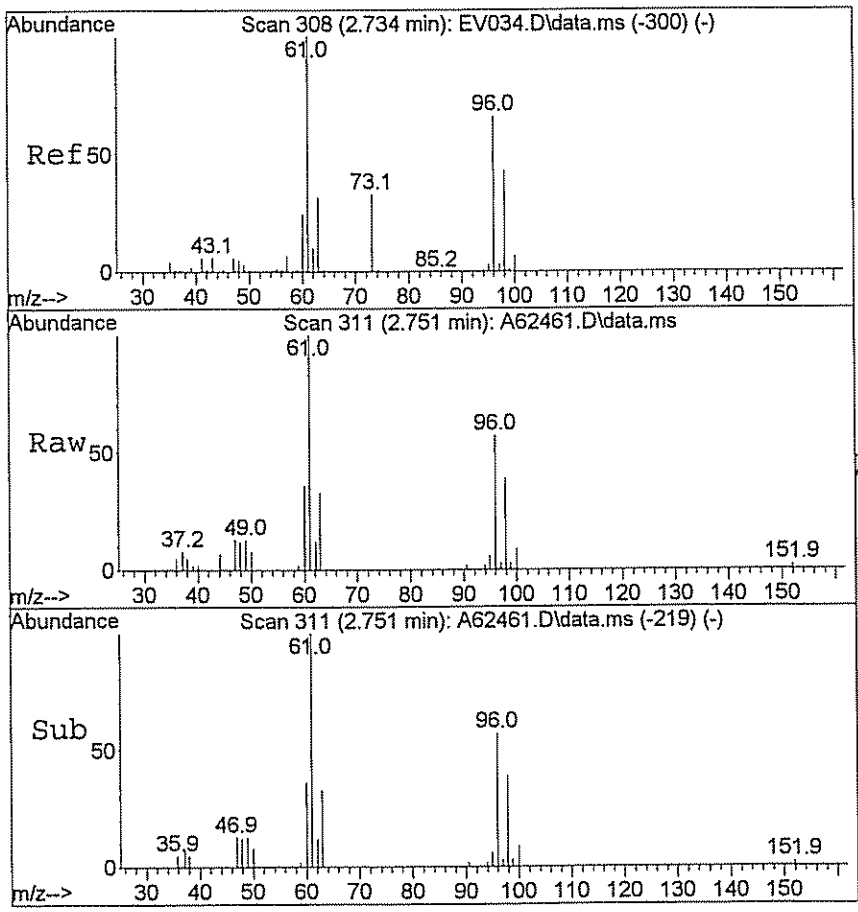


#4
Vinyl chloride
Concen: 22.41 ug/L
RT: 1.386 min Scan# 56
Delta R.T. -0.011 min
Lab File: A62461.D
Acq: 23 Mar 2009 21:46

Tgt Ion: 62 Resp: 36376

Ion	Ratio	Lower	Upper
62	100		
64	29.6	24.5	36.7

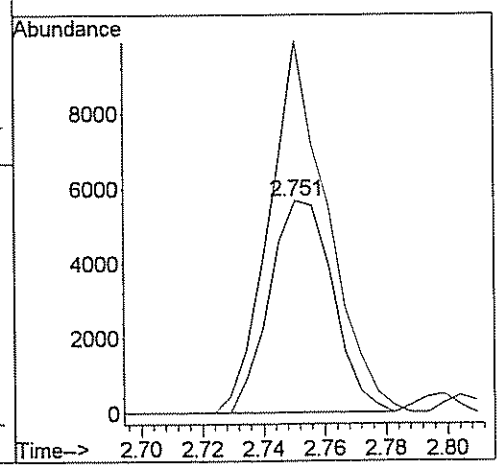


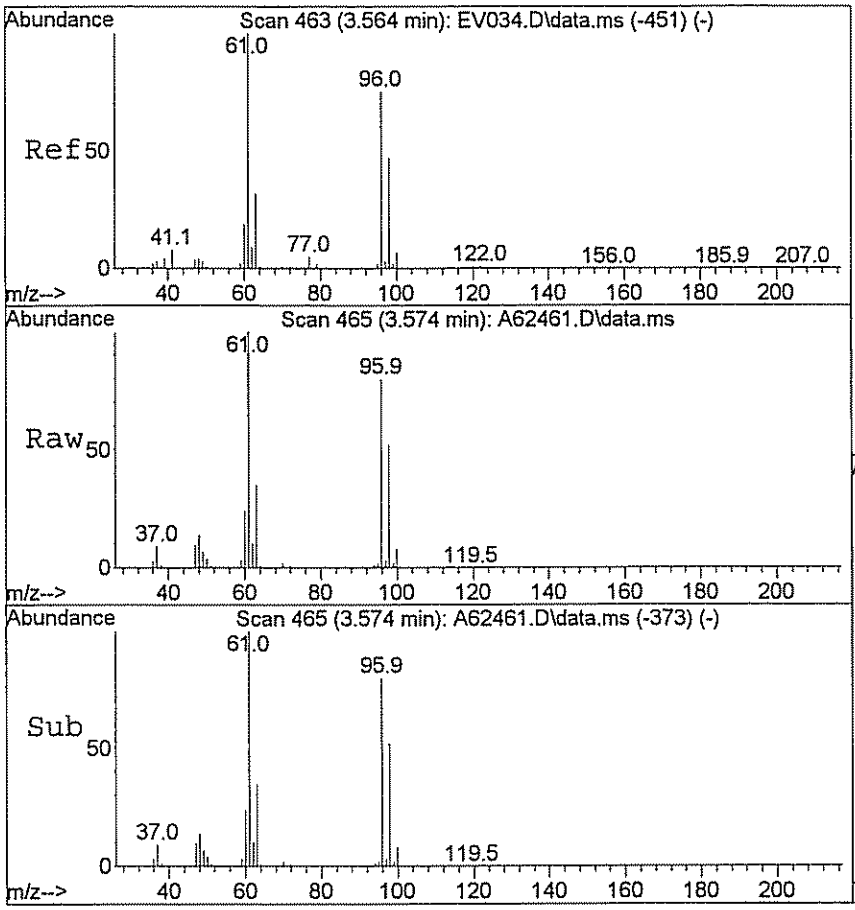


#16
Trans-1,2-dichloroethene
Concen: 4.97 ug/L
RT: 2.751 min Scan# 311
Delta R.T. -0.005 min
Lab File: A62461.D
Acq: 23 Mar 2009 21:46

Tgt Ion: 96 Resp: 8140

Ion	Ratio	Lower	Upper
96	100		
61	161.1	124.0	186.0

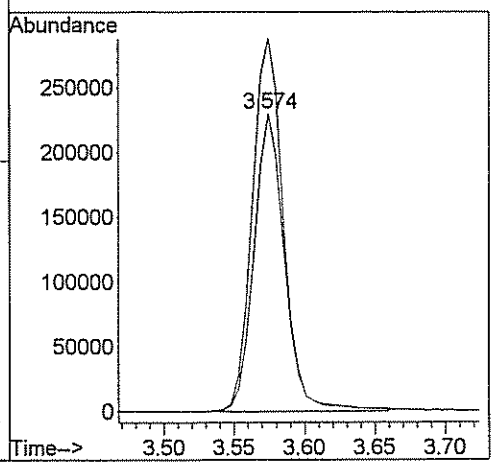


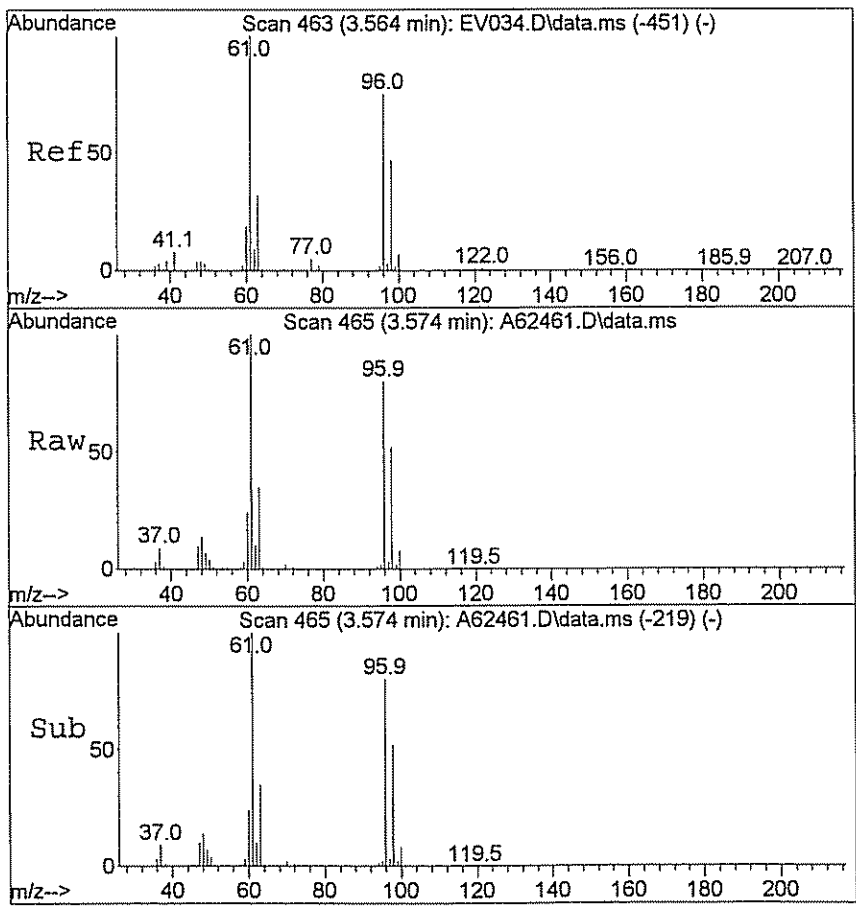


#28
Cis-1,2-dichloroethene
Concen: 173.71 ug/L
RT: 3.574 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62461.D
Acq: 23 Mar 2009 21:46

Tgt Ion: 96 Resp: 344945

Ion	Ratio	Lower	Upper
96	100		
61	128.1	115.0	172.6

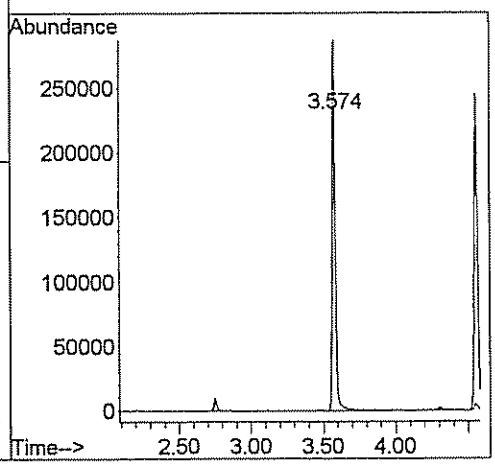


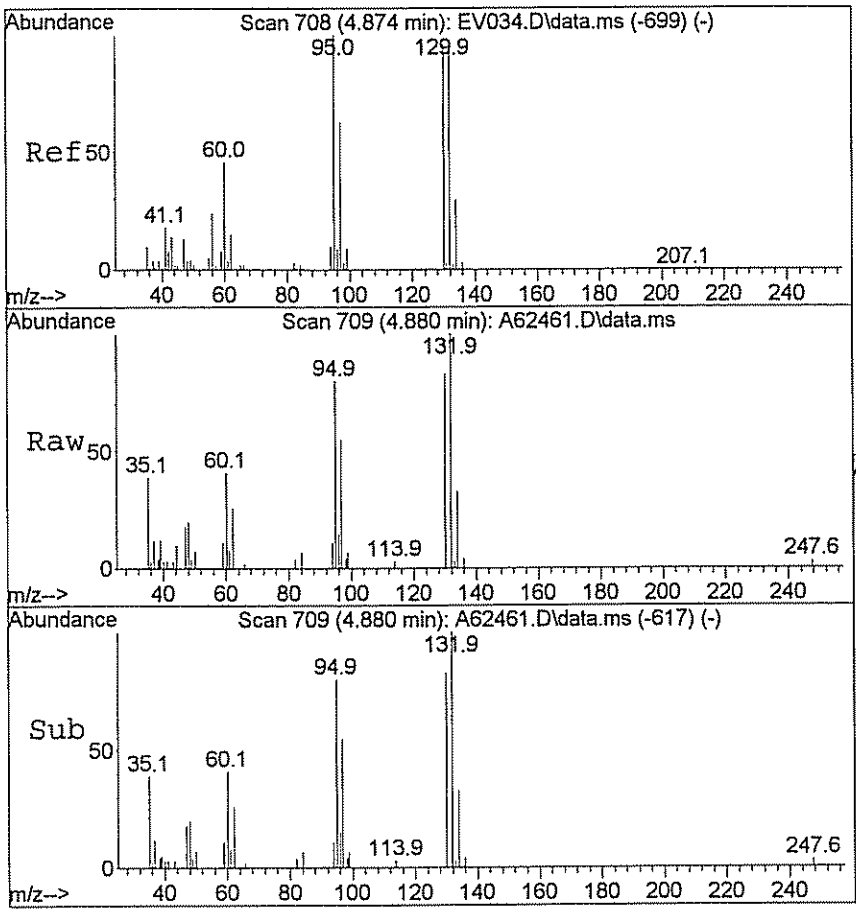


#29
1,2-dichloroethene(total)
Concen: 171.09 ug/L m
RT: 3.574 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62461.D
Acq: 23 Mar 2009 21:46

Tgt Ion: 96 Resp: 359638

Ion	Ratio	Lower	Upper
96	100		
61	3.6	115.0	172.6#

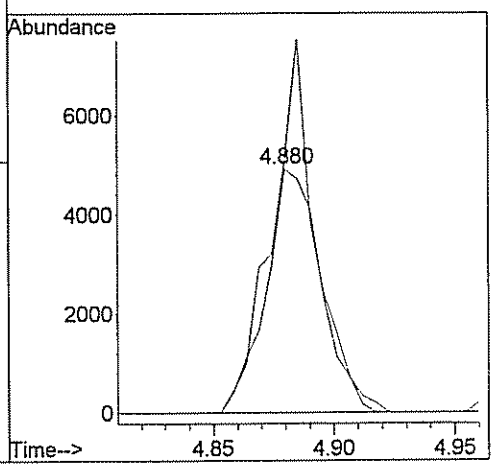




#47
Trichloroethene
Concen: 4.03 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62461.D
Acq: 23 Mar 2009 21:46

Tgt Ion: 95 Resp: 7773

Ion	Ratio	Lower	Upper
95	100		
130	121.2	79.7	119.5#



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-019-1/3
Sample Volume :	5	Lab File ID :	A62462.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-019-1/3
Sample Volume :	5	Lab File ID :	A62462.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	19	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-019-1/3
Sample Volume :	5	Lab File ID :	A62462.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	52	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	4.4	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62462.D
Acq On : 23 Mar 2009 22:06
Operator : SM
Sample : 903069-004
Misc : OUI-16GW03-0309,CH2M HILL,WATER
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Mar 26 10:46:52 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

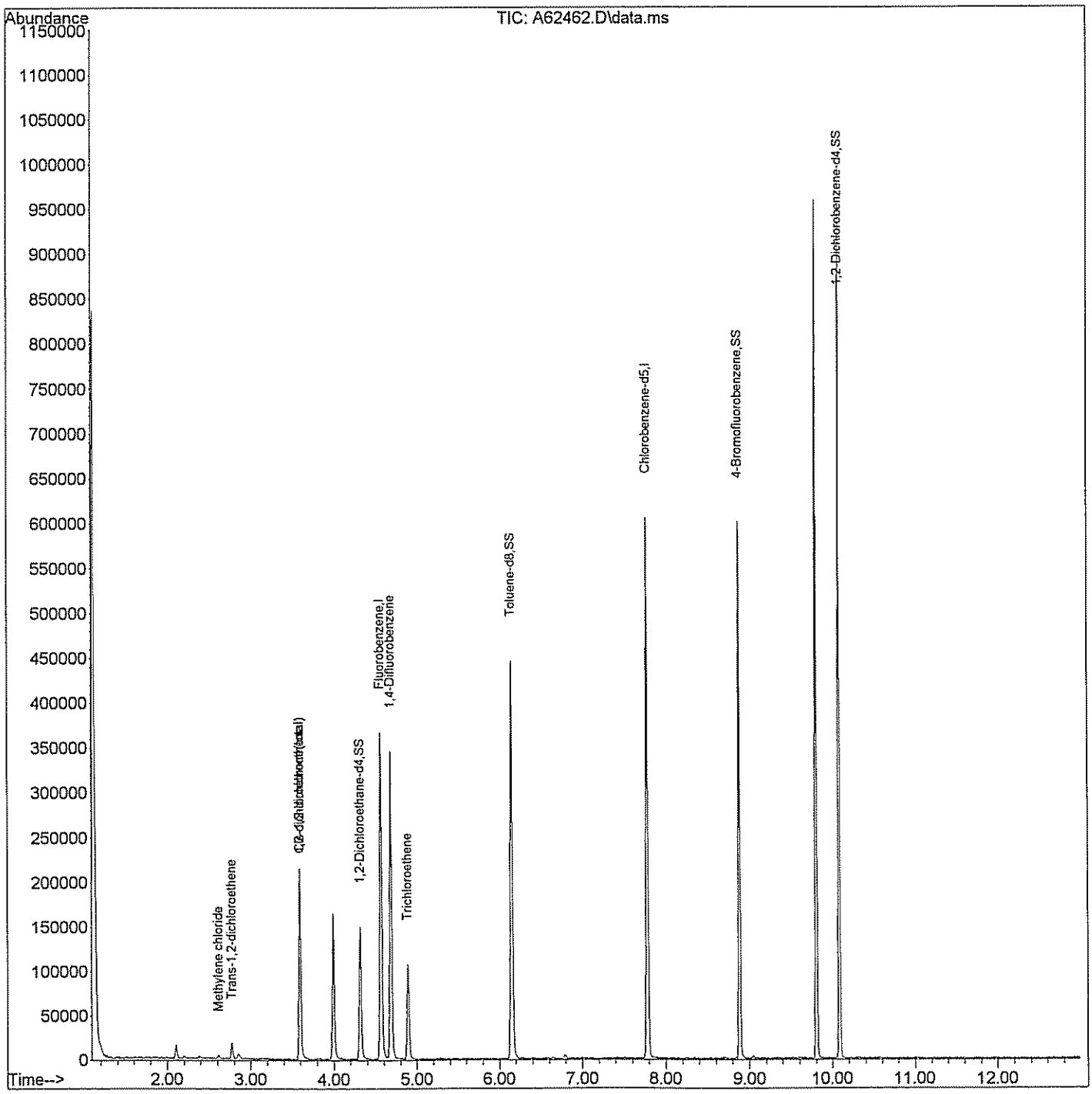
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.564	96	269220	50.00	ug/L	0.00
40) 1,4-Difluorobenzene		4.687	114	237110	50.00	ug/L	# 0.00
58) Chlorobenzene-d5		7.779	117	285199	50.00	ug/L	0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4		4.318	65	73477	49.40	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery =	98.80%		
53) Toluene-d8		6.148	98	256810	48.80	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery =	97.60%		
75) 4-Bromofluorobenzene		8.881	95	133479	47.16	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery =	94.32%		
91) 1,2-Dichlorobenzene-d4		10.085	152	166242	53.84	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery =	107.68%		
Target Compounds							Qvalue
15) Methylene chloride		2.617	84	1070	3.39	ug/L	97
16) Trans-1,2-dichloroethene		2.777	96	4746	4.41	ug/L	95
28) Cis-1,2-dichloroethene		3.596	96	66805	52.17	ug/L	85
29) 1,2-dichloroethene(total)		3.596	96	71712m	61.33	ug/L	
46) Trichloroethene		4.891	95	25130	19.18	ug/L #	70

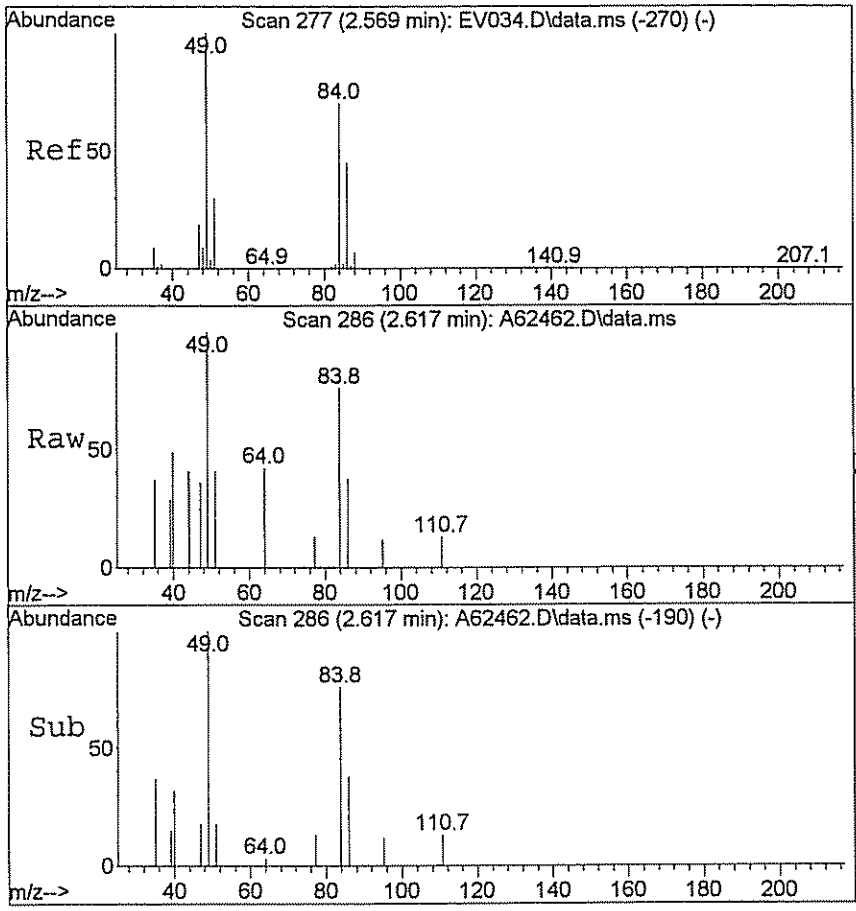
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62462.D
Acq On : 23 Mar 2009 22:06
Operator : SM
Sample : 903069-004
Misc : OUI-16GW03-0309,CH2M HILL,WATER
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Mar 26 10:46:52 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

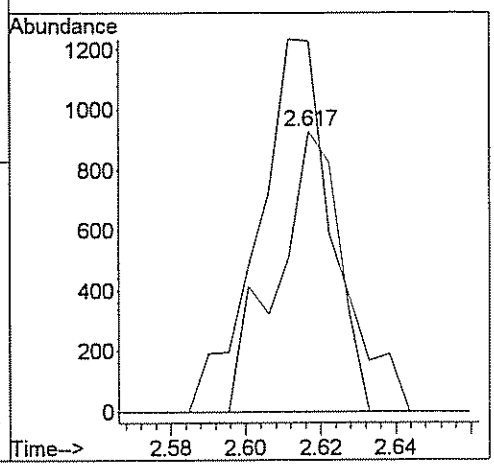


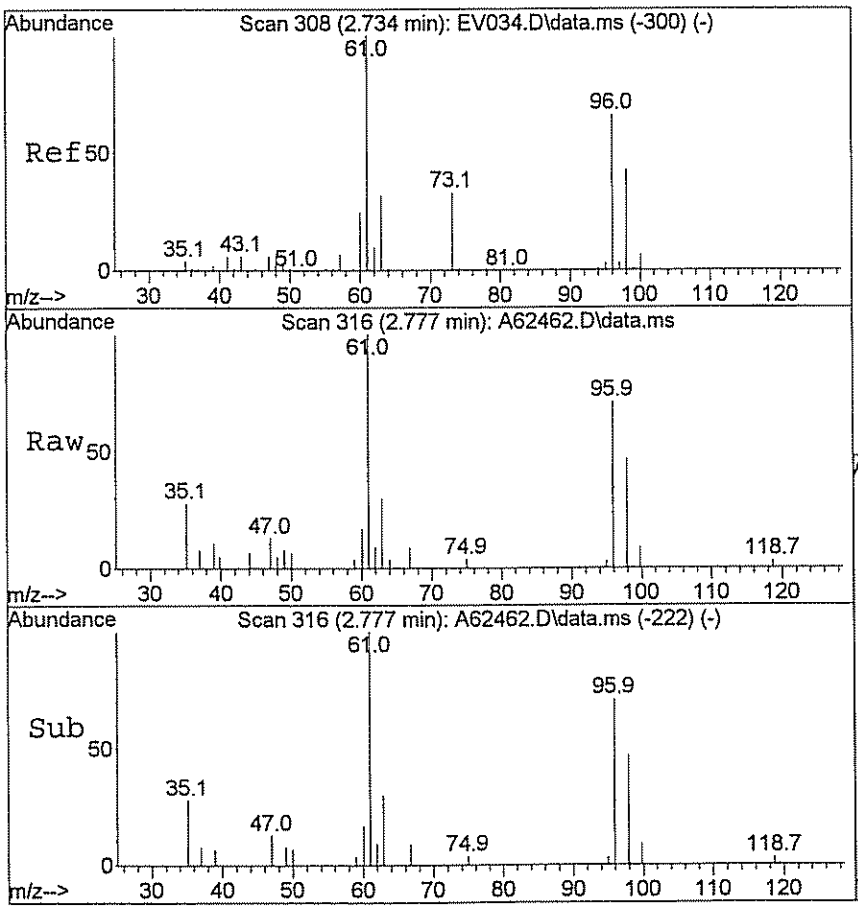


#15
Methylene chloride
Concen: 3.39 ug/L
RT: 2.617 min Scan# 286
Delta R.T. 0.011 min
Lab File: A62462.D
Acq: 23 Mar 2009 22:06

Tgt Ion: 84 Resp: 1070

Ion	Ratio	Lower	Upper
84	100		
49	161.8	125.9	188.9

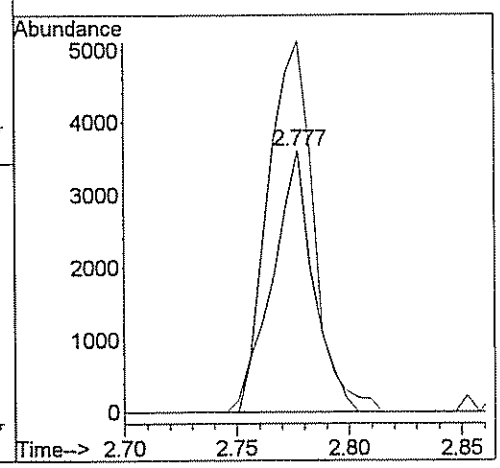


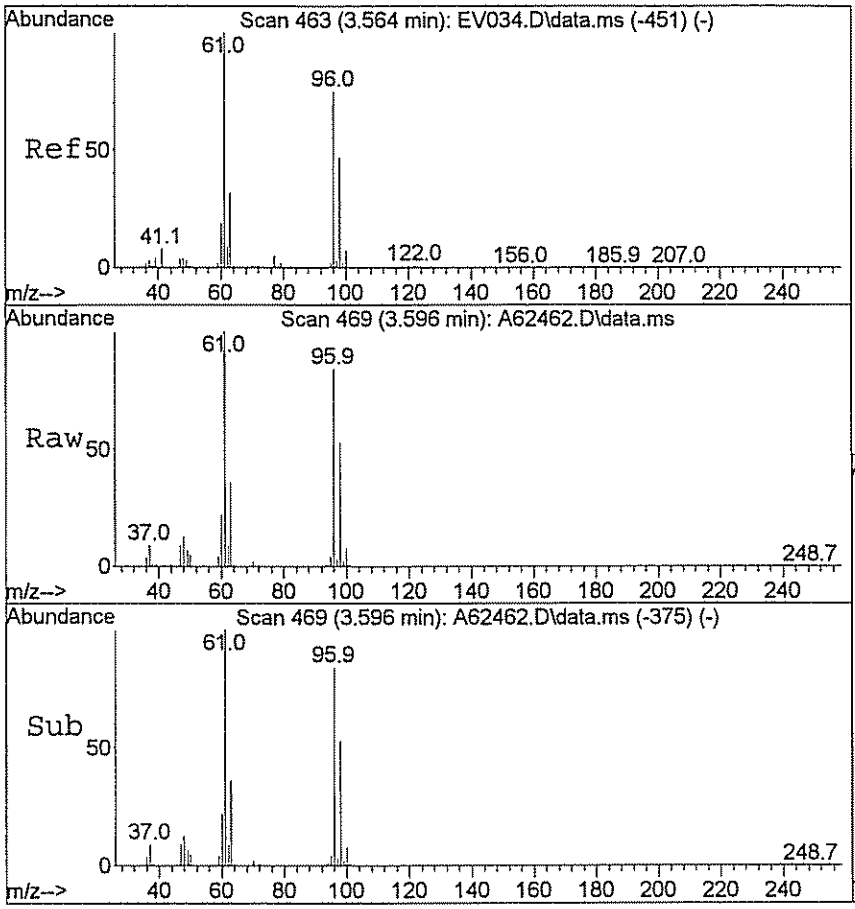


#16
Trans-1,2-dichloroethene
Concen: 4.41 ug/L
RT: 2.777 min Scan# 316
Delta R.T. 0.005 min
Lab File: A62462.D
Acq: 23 Mar 2009 22:06

Tgt Ion: 96 Resp: 4746

Ion	Ratio	Lower	Upper
96	100		
61	149.1	124.0	186.0

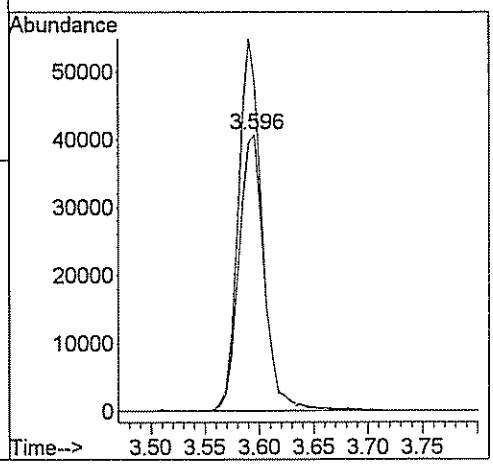


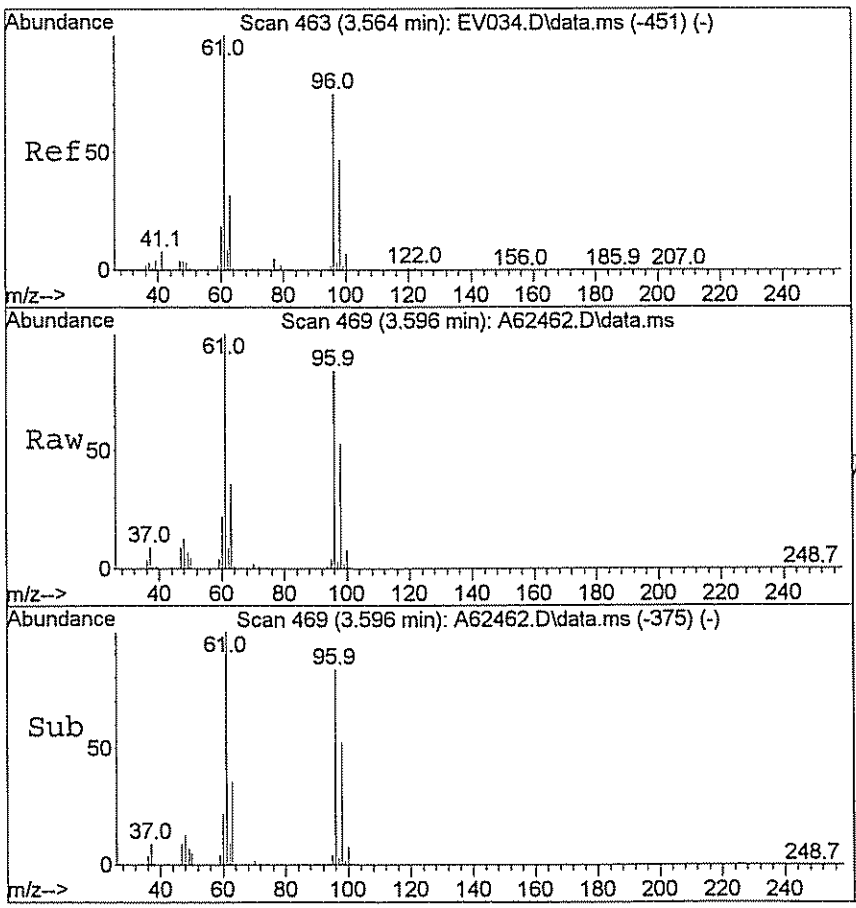


#28
Cis-1,2-dichloroethene
Concen: 52.17 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62462.D
Acq: 23 Mar 2009 22:06

Tgt Ion: 96 Resp: 66805

Ion	Ratio	Lower	Upper
96	100		
61	124.6	115.0	172.6

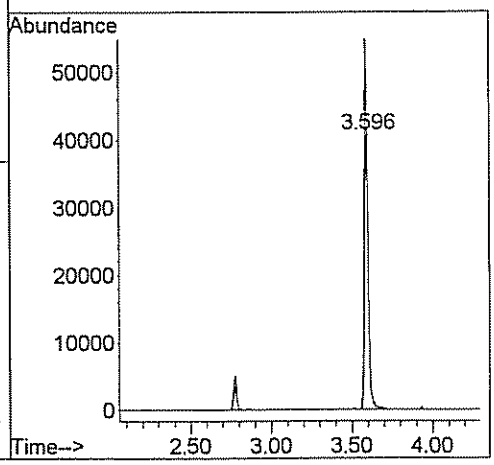


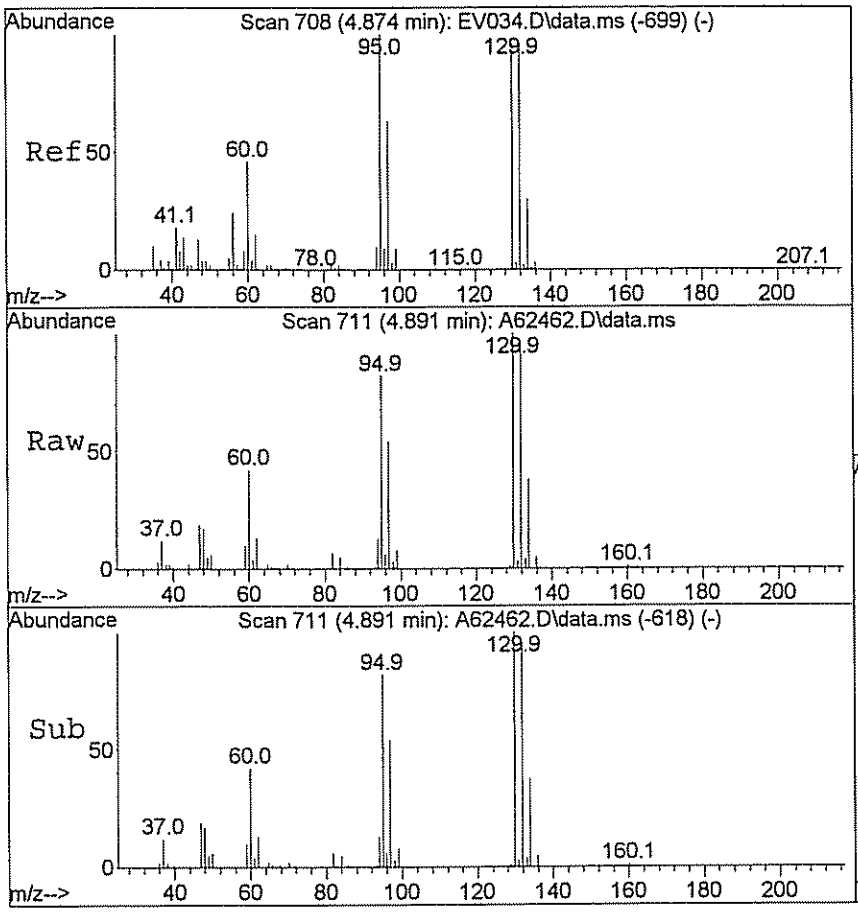


#29
1,2-dichloroethene(total)
Concen: 61.33 ug/L m
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62462.D
Acq: 23 Mar 2009 22:06

Tgt Ion: 96 Resp: 71712

Ion	Ratio	Lower	Upper
96	100		
61	116.1	115.0	172.6

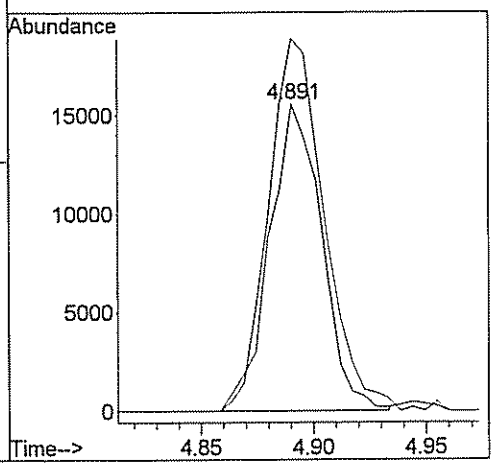




#46
Trichloroethene
Concen: 19.18 ug/L
RT: 4.891 min Scan# 711
Delta R.T. 0.000 min
Lab File: A62462.D
Acq: 23 Mar 2009 22:06

Tgt Ion: 95 Resp: 25130

Ion	Ratio	Lower	Upper
95	100		
130	129.8	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-022-1/3
Sample Volume :	5	Lab File ID :	A62463.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.2	
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-022-1/3
Sample Volume :	5	Lab File ID :	A62463.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	13	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-022-1/3
Sample Volume :	5	Lab File ID :	A62463.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	32	
156-59-2	cis-1,2-Dichloroethene	220	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	11	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62463.D
Acq On : 23 Mar 2009 22:27
Operator : SM
Sample : 903069-005
Misc : OUI-16GW42-0309,CH2M HILL,WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 26 12:51:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

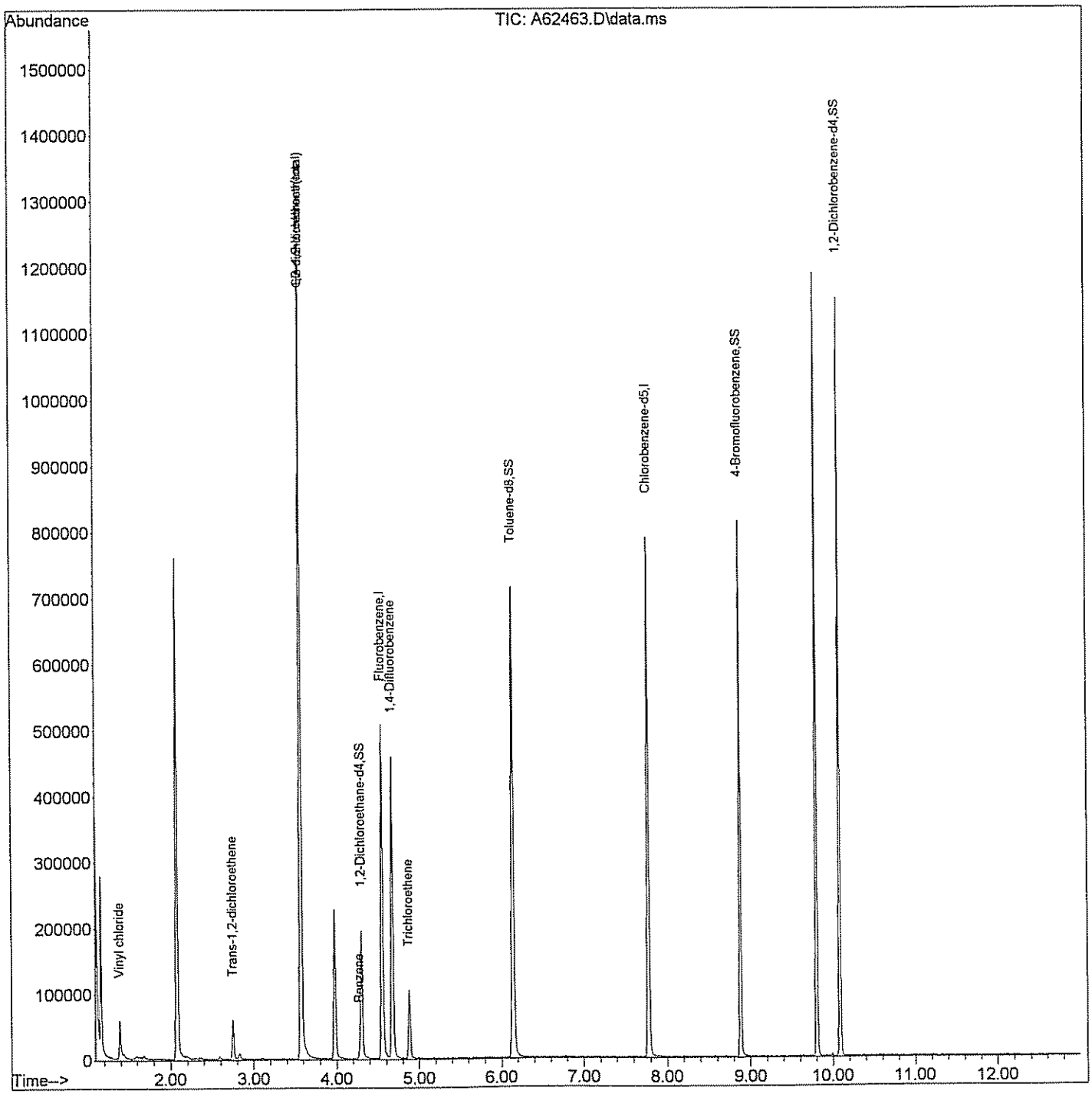
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	370219	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	325667	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	371775	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	98266	49.96	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.92%			
54) Toluene-d8	6.142	98	438468	58.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 116.20%			
76) 4-Bromofluorobenzene	8.881	95	169579	48.39	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.78%			
92) 1,2-Dichlorobenzene-d4	10.085	152	193136	56.19	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 112.38%			
Target Compounds						Qvalue
4) Vinyl chloride	1.386	62	49146	32.08	ug/L	97
16) Trans-1,2-dichloroethene	2.750	96	16490	10.68	ug/L	81
28) Cis-1,2-dichloroethene	3.574	96	411409	219.51	ug/L	88
29) 1,2-dichloroethene(total)	3.574	96	436074m	219.79	ug/L	
45) Benzene	4.275	78	8342	1.21	ug/L	100
47) Trichloroethene	4.880	95	22931	12.95	ug/L #	72

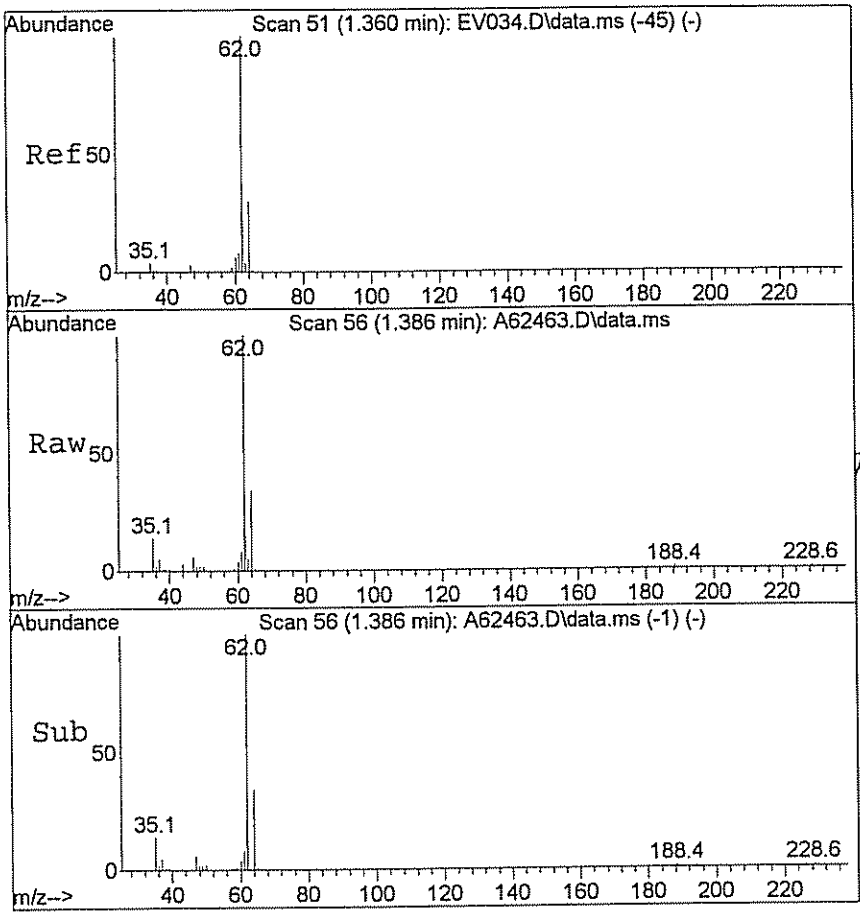
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62463.D
Acq On : 23 Mar 2009 22:27
Operator : SM
Sample : 903069-005
Misc : OUI-16GW42-0309,CH2M HILL,WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 26 12:51:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

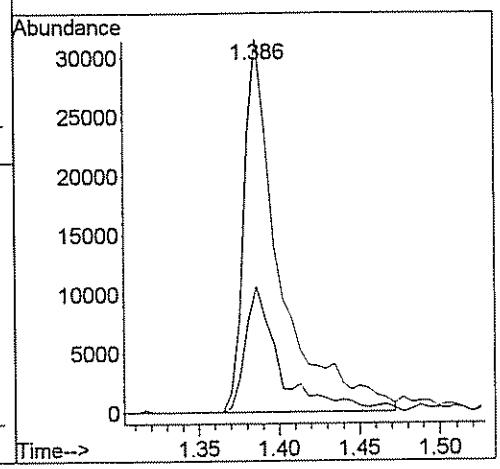


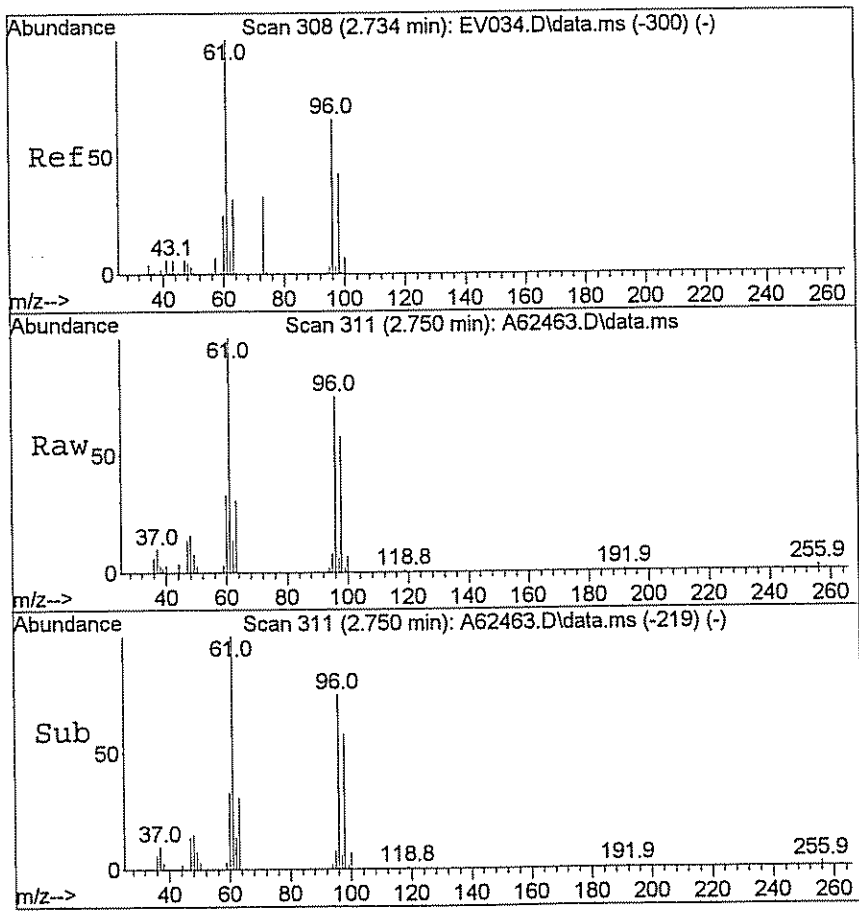


#4
Vinyl chloride
Concen: 32.08 ug/L
RT: 1.386 min Scan# 56
Delta R.T. -0.011 min
Lab File: A62463.D
Acq: 23 Mar 2009 22:27

Tgt Ion: 62 Resp: 49146

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.5	36.7

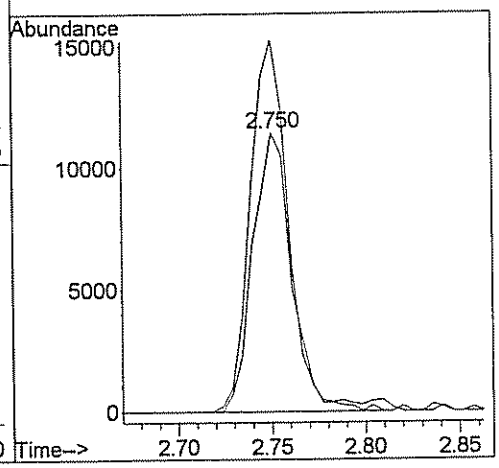


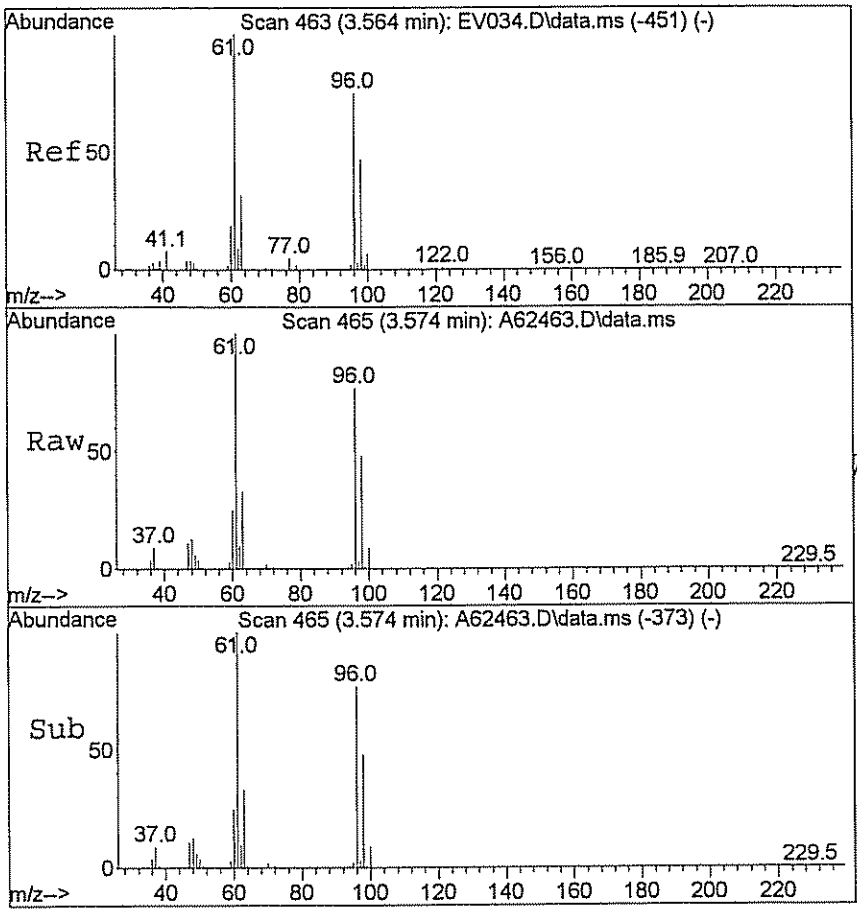


#16
Trans-1,2-dichloroethene
Concen: 10.68 ug/L
RT: 2.750 min Scan# 311
Delta R.T. -0.005 min
Lab File: A62463.D
Acq: 23 Mar 2009 22:27

Tgt Ion: 96 Resp: 16490

Ion	Ratio	Lower	Upper
96	100		
61	130.4	124.0	186.0

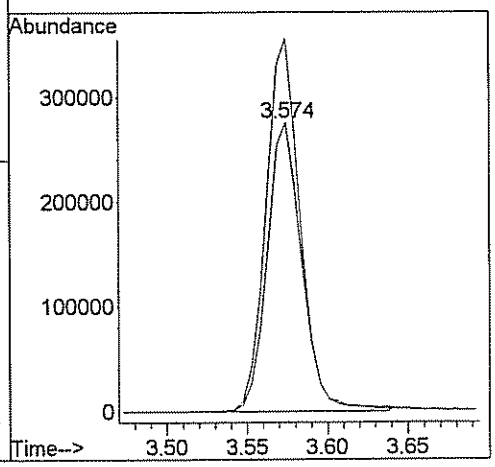


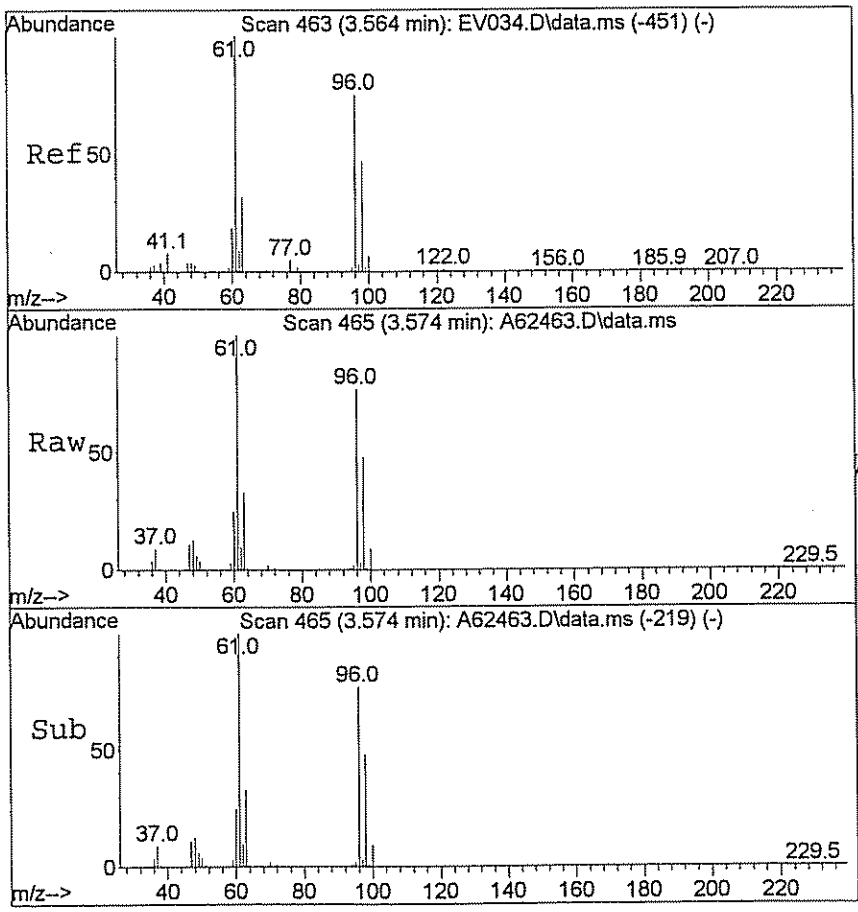


#28
Cis-1,2-dichloroethene
Concen: 219.51 ug/L
RT: 3.574 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62463.D
Acq: 23 Mar 2009 22:27

Tgt Ion: 96 Resp: 411409

Ion	Ratio	Lower	Upper
96	100		
61	129.3	115.0	172.6

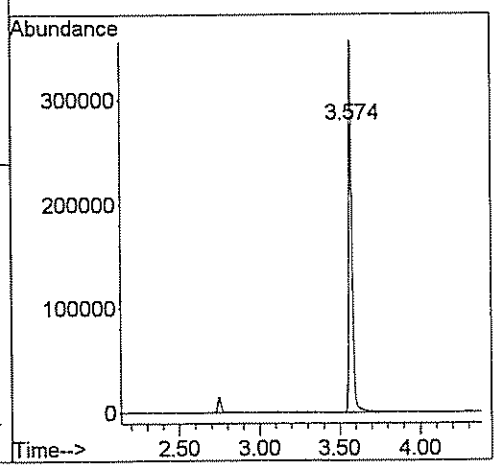


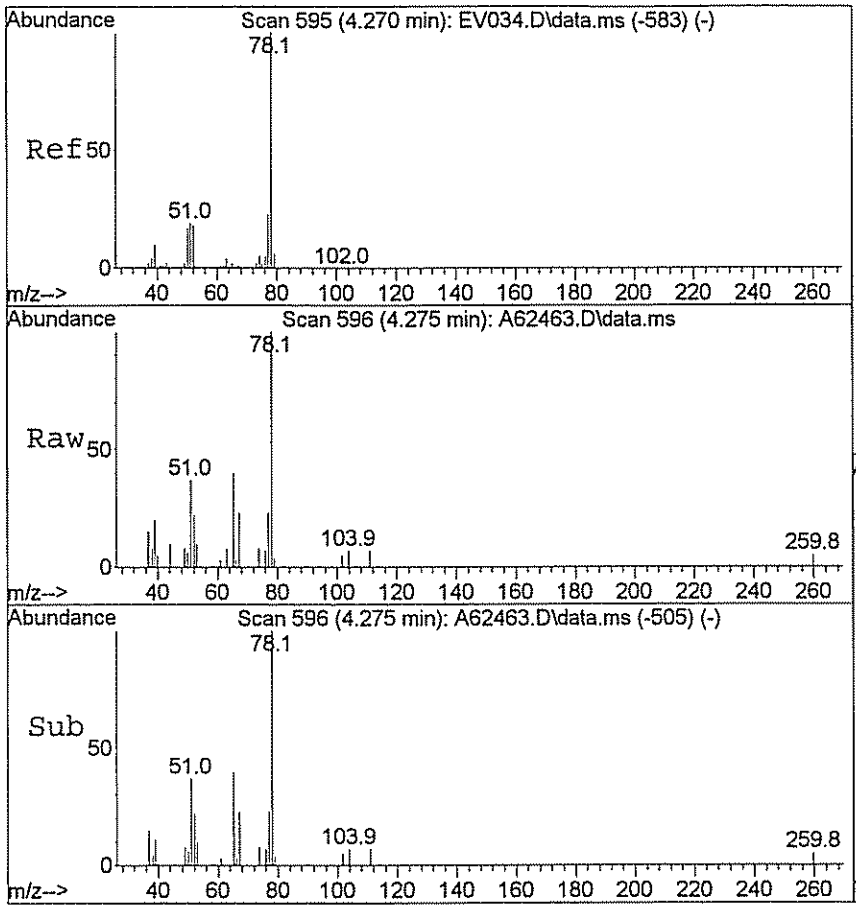


#29
1,2-dichloroethene(total)
Concen: 219.79 ug/L m
RT: 3.574 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62463.D
Acq: 23 Mar 2009 22:27

Tgt Ion: 96 Resp: 436074

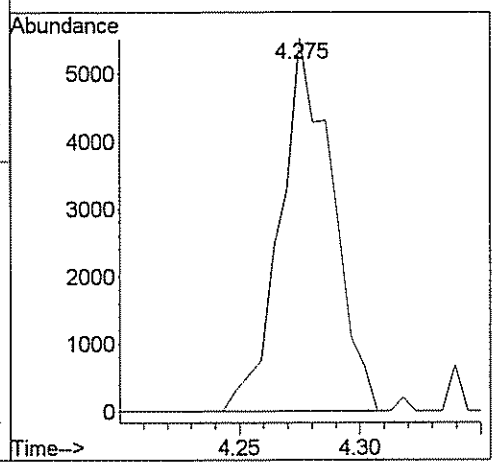
Ion	Ratio	Lower	Upper
96	100		
61	4.9	115.0	172.6#

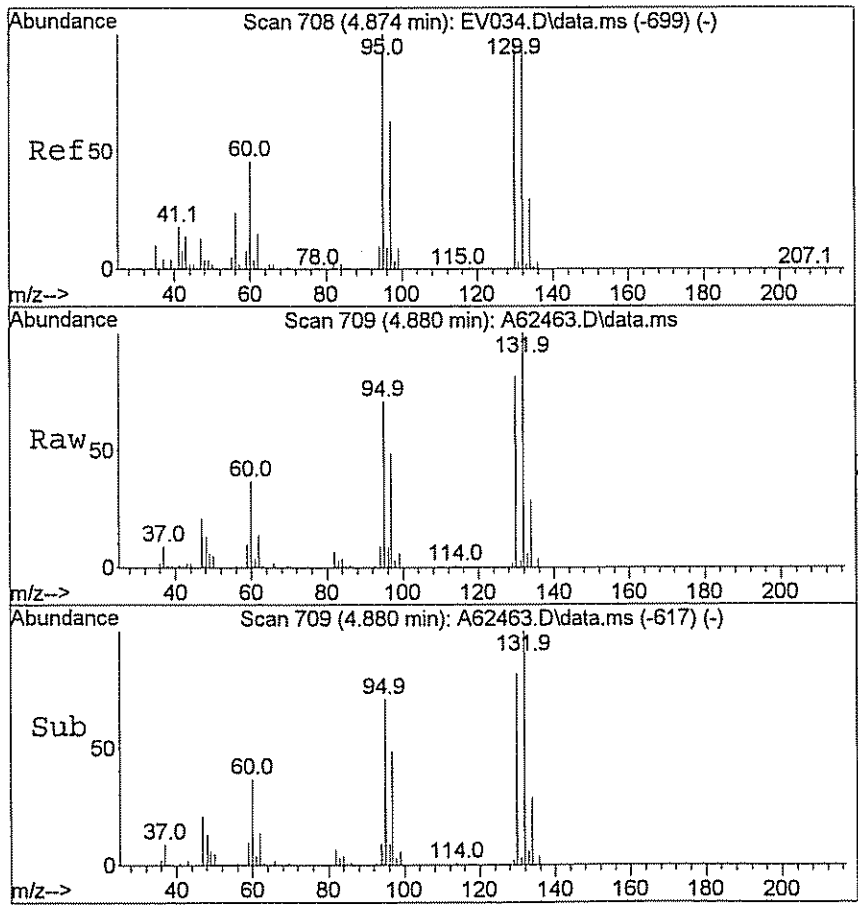




#45
Benzene
Concen: 1.21 ug/L
RT: 4.275 min Scan# 596
Delta R.T. -0.011 min
Lab File: A62463.D
Acq: 23 Mar 2009 22:27

Tgt Ion: 78 Resp: 8342

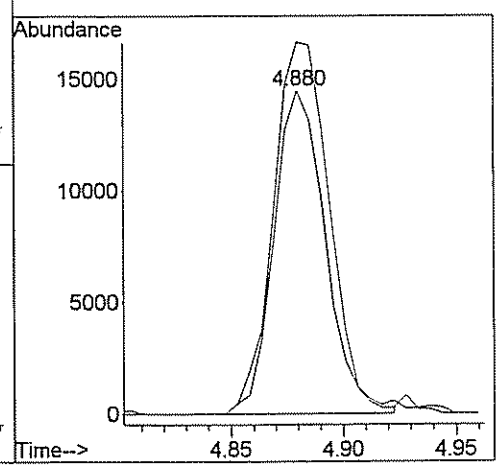




#47
Trichloroethene
Concen: 12.95 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62463.D
Acq: 23 Mar 2009 22:27

Tgt Ion: 95 Resp: 22931

Ion	Ratio	Lower	Upper
95	100		
130	127.8	79.7	119.5#



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-023-2/3
Sample Volume :	.5	Lab File ID :	A62519.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-023-2/3
Sample Volume :	.5	Lab File ID :	A62519.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	10	U
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	10	U
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-023-2/3
Sample Volume :	.5	Lab File ID :	A62519.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	10	U
156-59-2	cis-1,2-Dichloroethene	140	
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62519.D
Acq On : 25 Mar 2009 15:54
Operator : SM
Sample : 903069-005
Misc : OUI-16GW42-0309,CH2M HILL,10X
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 26 16:40:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

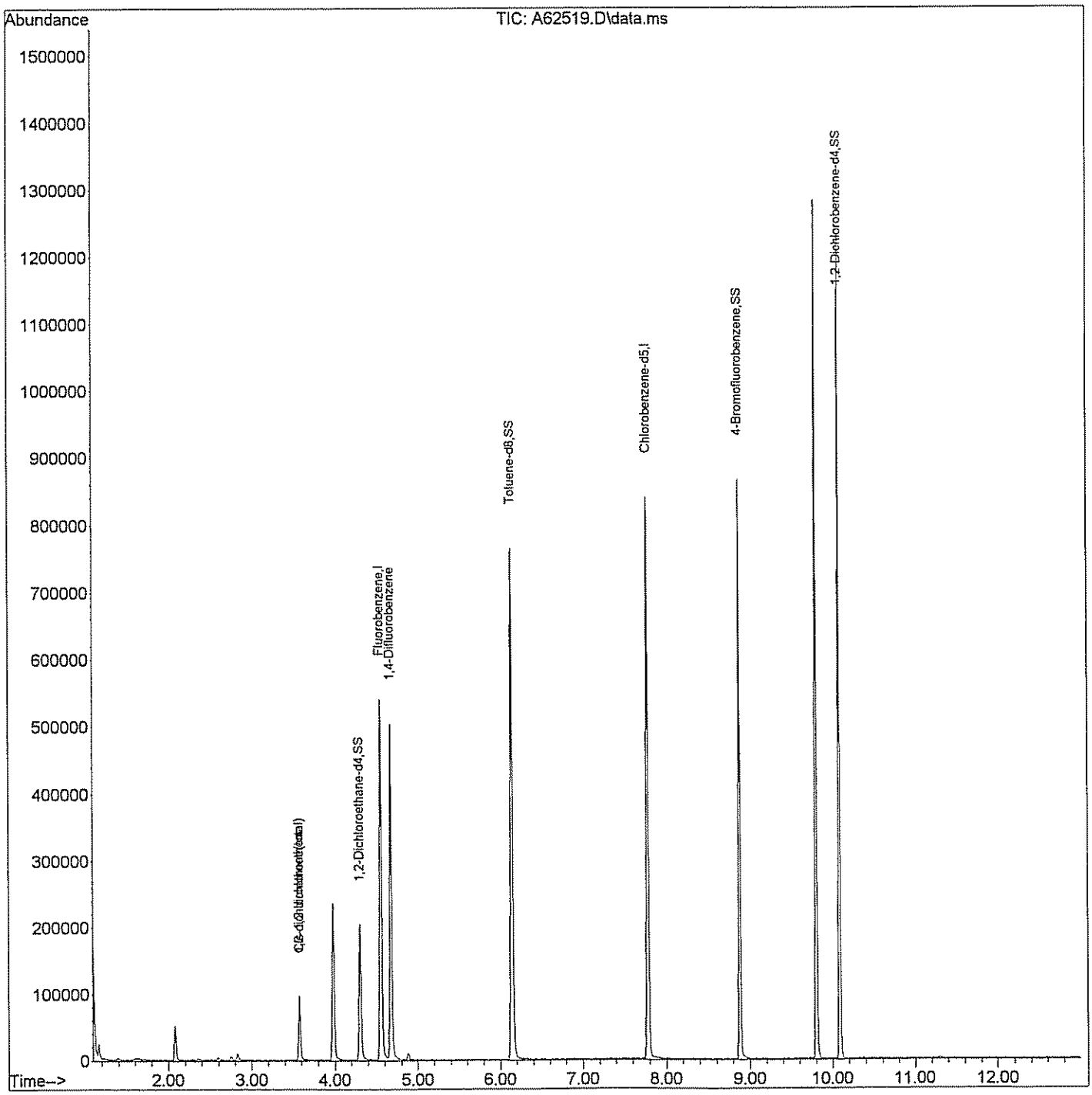
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	408931	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	364867	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	402164	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	108432	49.91	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.82%			
54) Toluene-d8	6.142	98	456531	54.00	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 108.00%			
76) 4-Bromofluorobenzene	8.881	95	185352	48.89	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.78%			
92) 1,2-Dichlorobenzene-d4	10.085	152	214820	57.78	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.56%			
Target Compounds						Qvalue
28) Cis-1,2-dichloroethene	3.574	96	29879	14.43	ug/L	89
29) 1,2-dichloroethene(total)	3.574	96	32046m	14.62	ug/L	
34) Cyclohexane	4.184	56	87	Below Cal	#	22

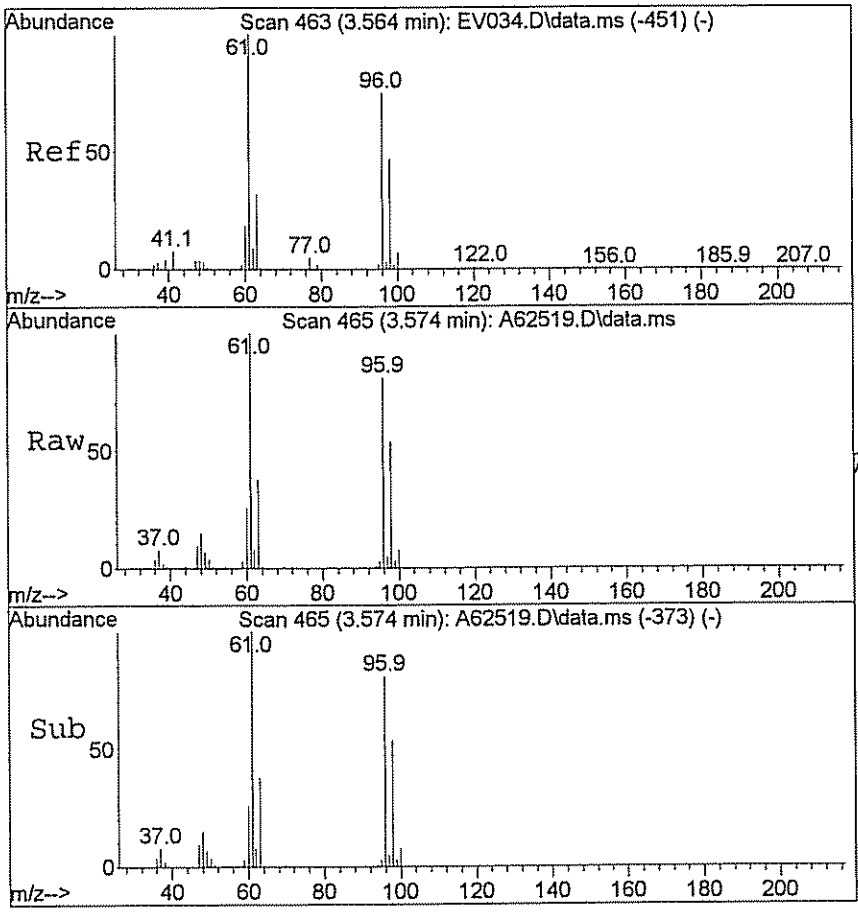
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62519.D
Acq On : 25 Mar 2009 15:54
Operator : SM
Sample : 903069-005
Misc : OUI-16GW42-0309,CH2M HILL,10X
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 26 16:40:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

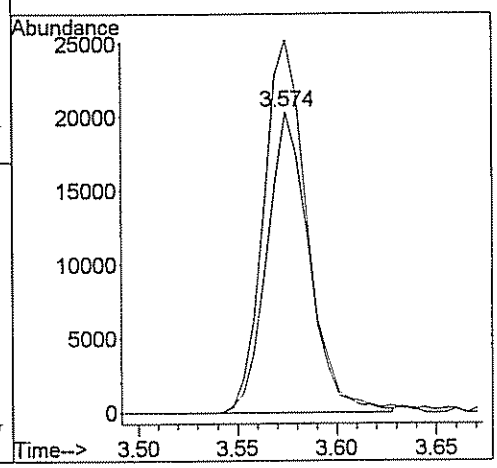


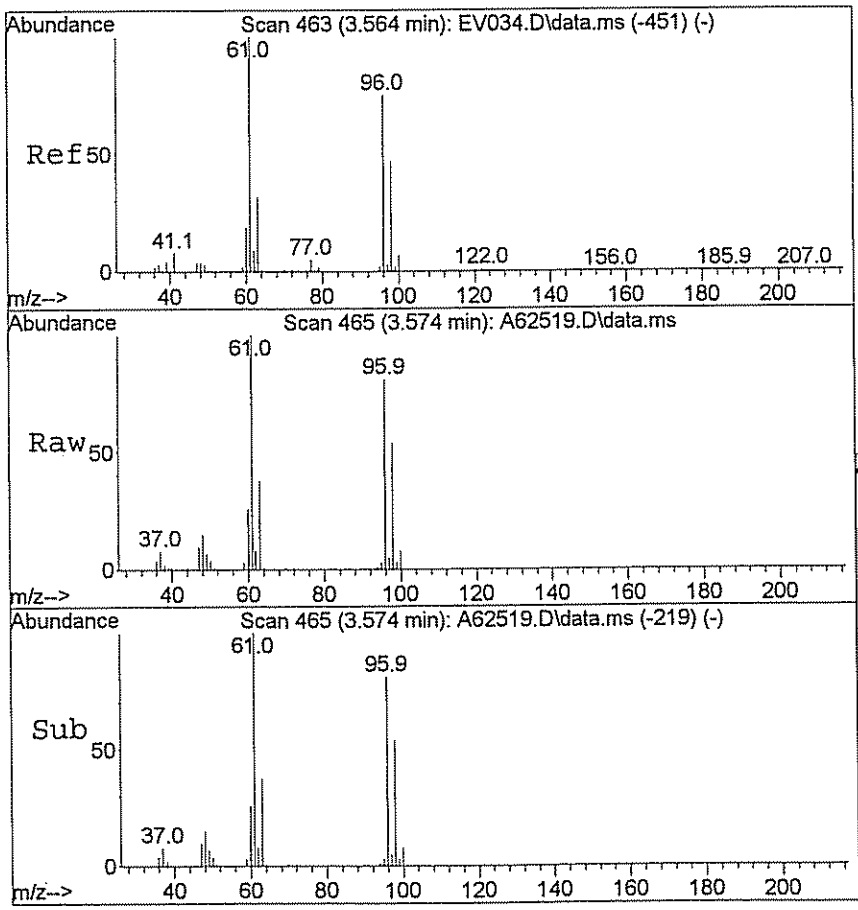


#28
Cis-1,2-dichloroethene
Concen: 14.43 ug/L
RT: 3.574 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62519.D
Acq: 25 Mar 2009 15:54

Tgt Ion: 96 Resp: 29879

Ion	Ratio	Lower	Upper
96	100		
61	129.7	115.0	172.6

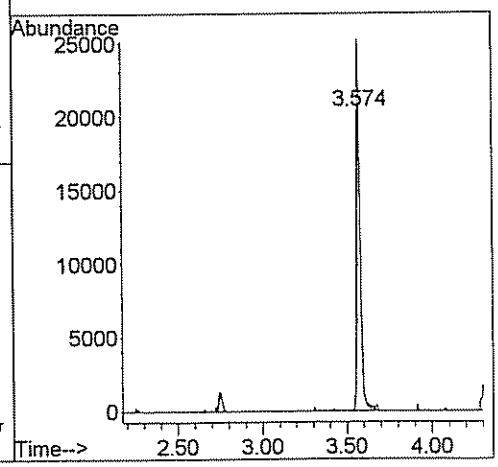


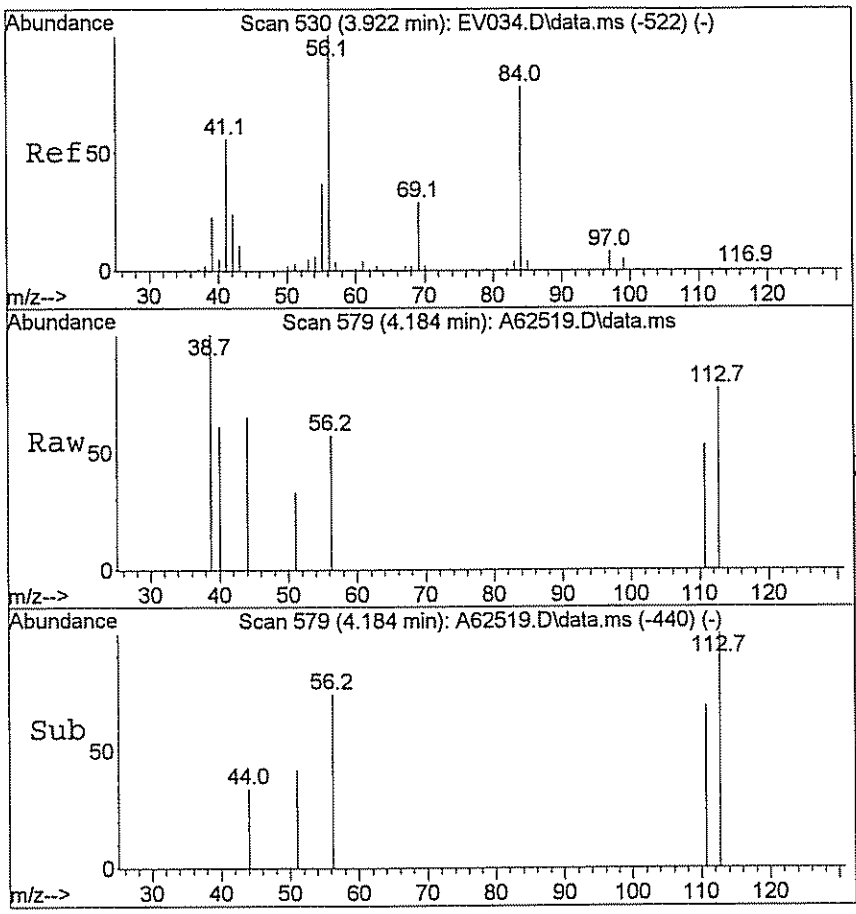


#29
1,2-dichloroethene(total)
Concen: 14.62 ug/L m
RT: 3.574 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62519.D
Acq: 25 Mar 2009 15:54

Tgt Ion: 96 Resp: 32046

Ion	Ratio	Lower	Upper
96	100		
61	6.2	115.0	172.6#

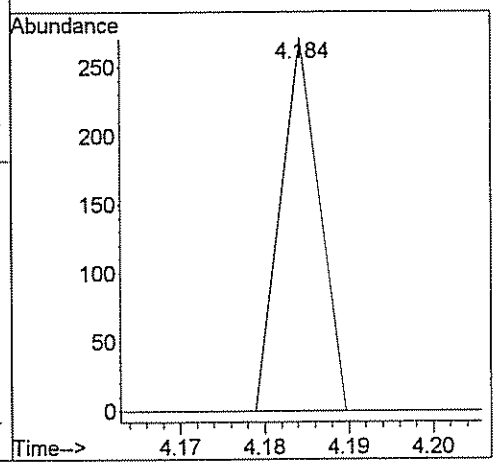




#34
Cyclohexane
Concen: Below Cal
RT: 4.184 min Scan# 579
Delta R.T. 0.246 min
Lab File: A62519.D
Acq: 25 Mar 2009 15:54

Tgt Ion: 56 Resp: 87

Ion	Ratio	Lower	Upper
56	100		
69	0.0	21.8	32.8#
84	0.0	59.2	88.8#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-025-1/3
Sample Volume :	5	Lab File ID :	A62464.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-025-1/3
Sample Volume :	5	Lab File ID :	A62464.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.9	
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	3.4	
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	150	
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	0.96	J
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	16	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	190	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-025-1/3
Sample Volume :	5	Lab File ID :	A62464.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	60	
156-59-2	cis-1,2-Dichloroethene	290	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	29	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62464.D
Acq On : 23 Mar 2009 22:48
Operator : SM
Sample : 903069-006
Misc : OUI-16GW04-0309,CH2M HILL,WATER
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Mar 26 10:46:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

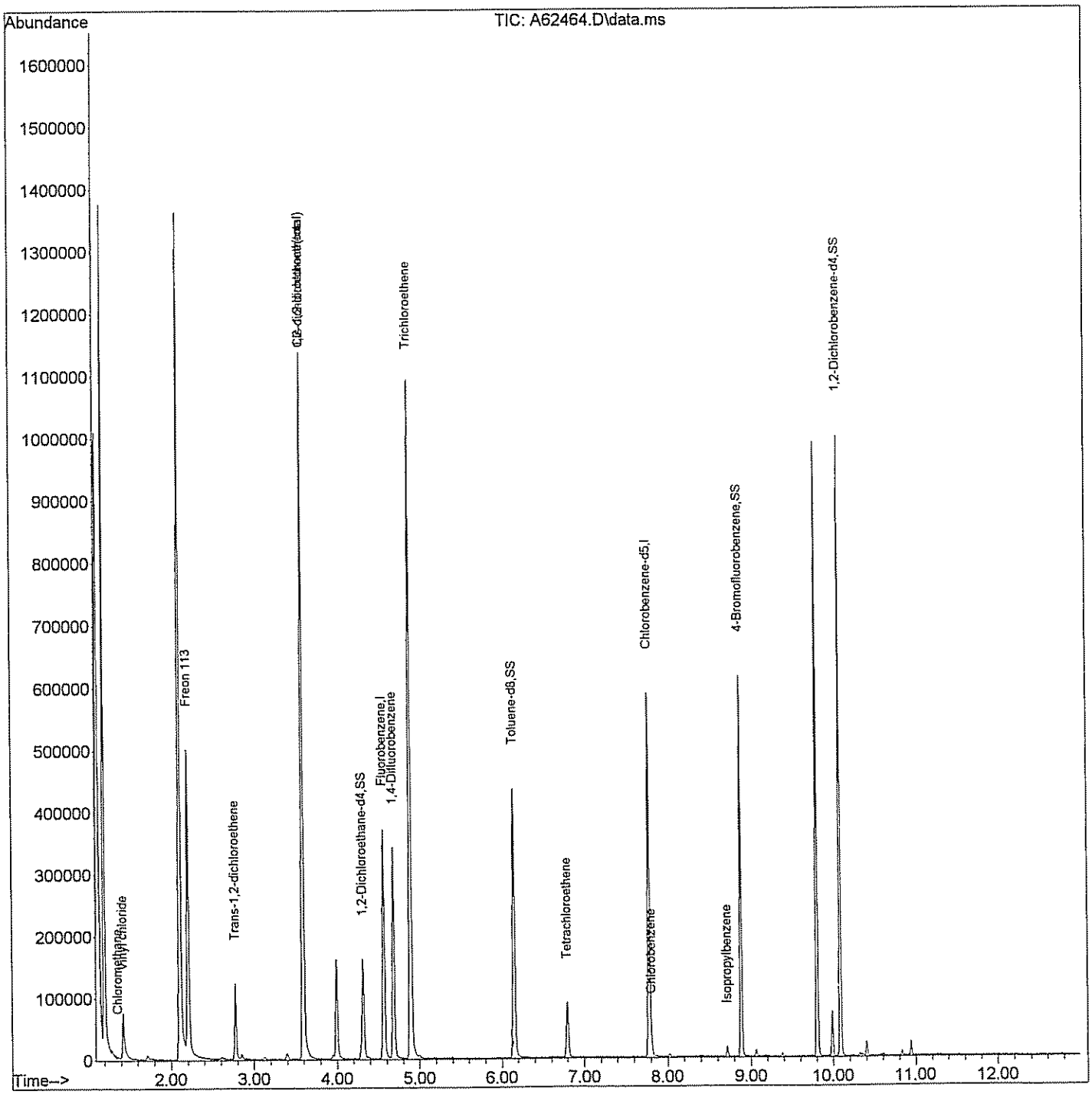
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	273856	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	238152	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	285955	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	76414	50.51	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.02%			
53) Toluene-d8	6.148	98	254070	48.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.14%			
75) 4-Bromofluorobenzene	8.881	95	131729	46.42	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 92.84%			
91) 1,2-Dichlorobenzene-d4	10.085	152	169149	54.64	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 109.28%			
Target Compounds						Qvalue
3) Chloromethane	1.360	50	2662	3.43	ug/L #	83
4) Vinyl chloride	1.424	62	71923	59.96	ug/L	93
9) Freon 113	2.205	101	136890	147.34	ug/L	93
16) Trans-1,2-dichloroethene	2.777	96	31806	29.04	ug/L	88
28) Cis-1,2-dichloroethene	3.596	96	376132	288.76	ug/L	87
29) 1,2-dichloroethene(total)	3.596	96	410897m	345.49	ug/L	
46) Trichloroethene	4.890	95	255507	194.12	ug/L #	72
61) Tetrachloroethene	6.795	166	24730	16.37	ug/L	100
66) Chlorobenzene	7.811	112	8812	1.88	ug/L	89
74) Isopropylbenzene	8.716	105	6967	0.96	ug/L	97

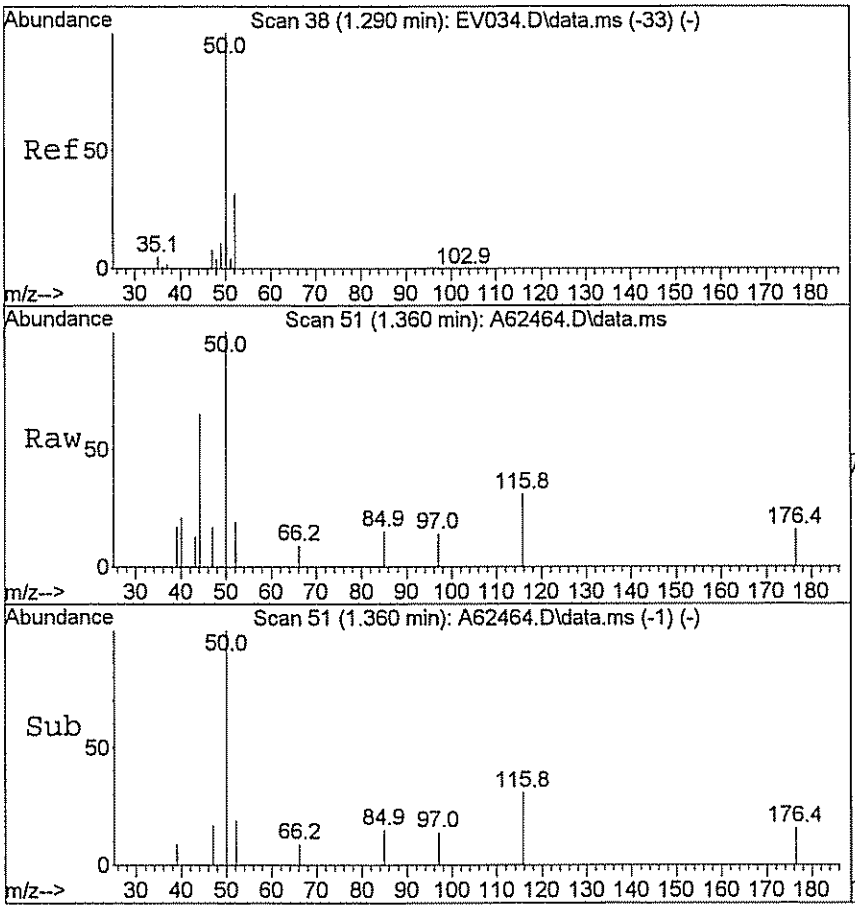
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62464.D
Acq On : 23 Mar 2009 22:48
Operator : SM
Sample : 903069-006
Misc : OUI-16GW04-0309,CH2M HILL,WATER
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Mar 26 10:46:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

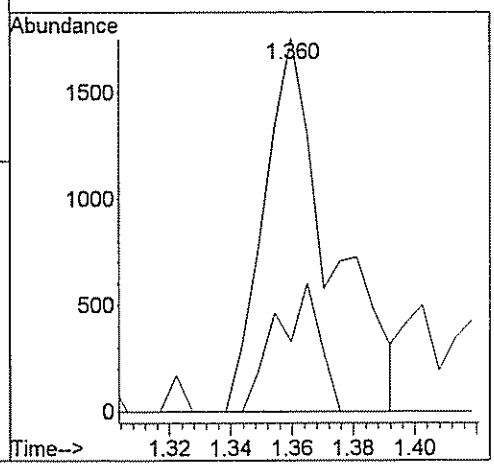


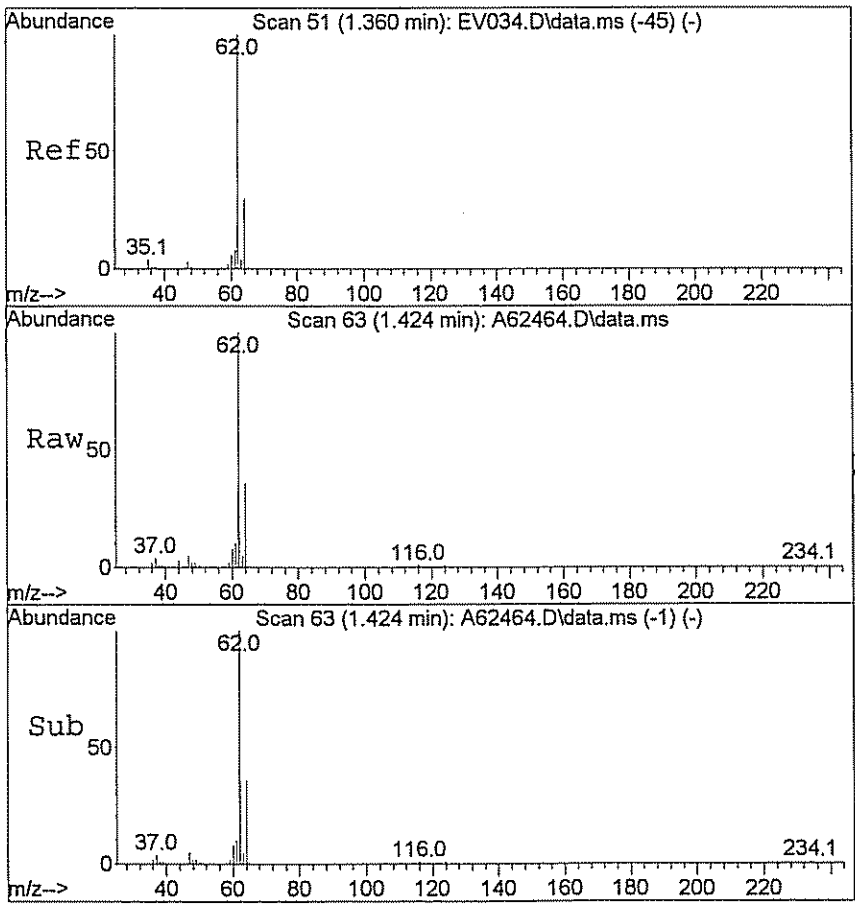


#3
Chloromethane
Concen: 3.43 ug/L
RT: 1.360 min Scan# 51
Delta R.T. 0.011 min
Lab File: A62464.D
Acq: 23 Mar 2009 22:48

Tgt Ion: 50 Resp: 2662

Ion	Ratio	Lower	Upper
50	100		
52	22.5	25.8	38.6#

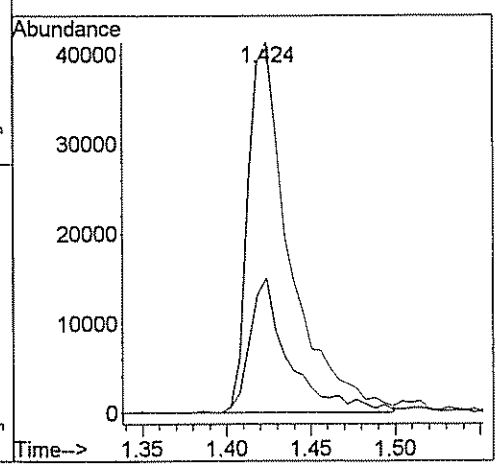


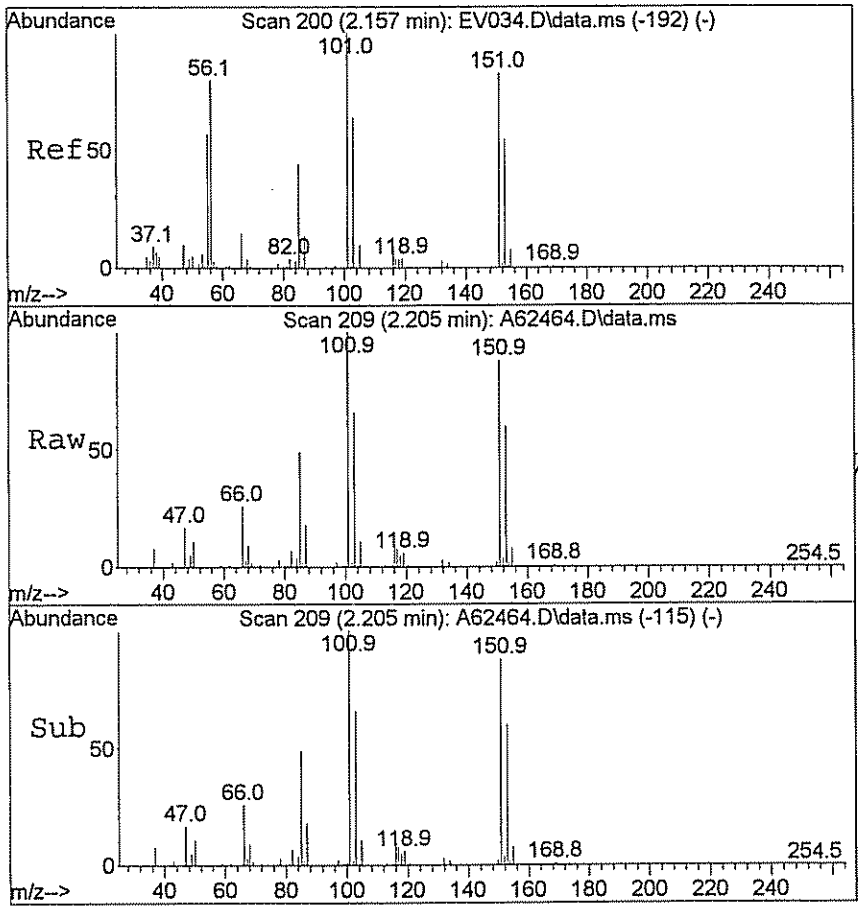


#4
Vinyl chloride
Concen: 59.96 ug/L
RT: 1.424 min Scan# 63
Delta R.T. 0.011 min
Lab File: A62464.D
Acq: 23 Mar 2009 22:48

Tgt Ion: 62 Resp: 71923

Ion	Ratio	Lower	Upper
62	100		
64	34.4	24.5	36.7

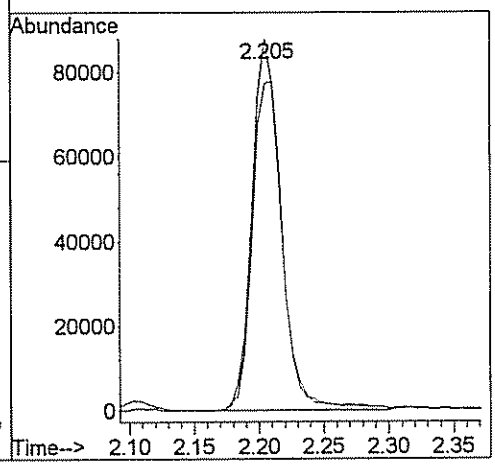


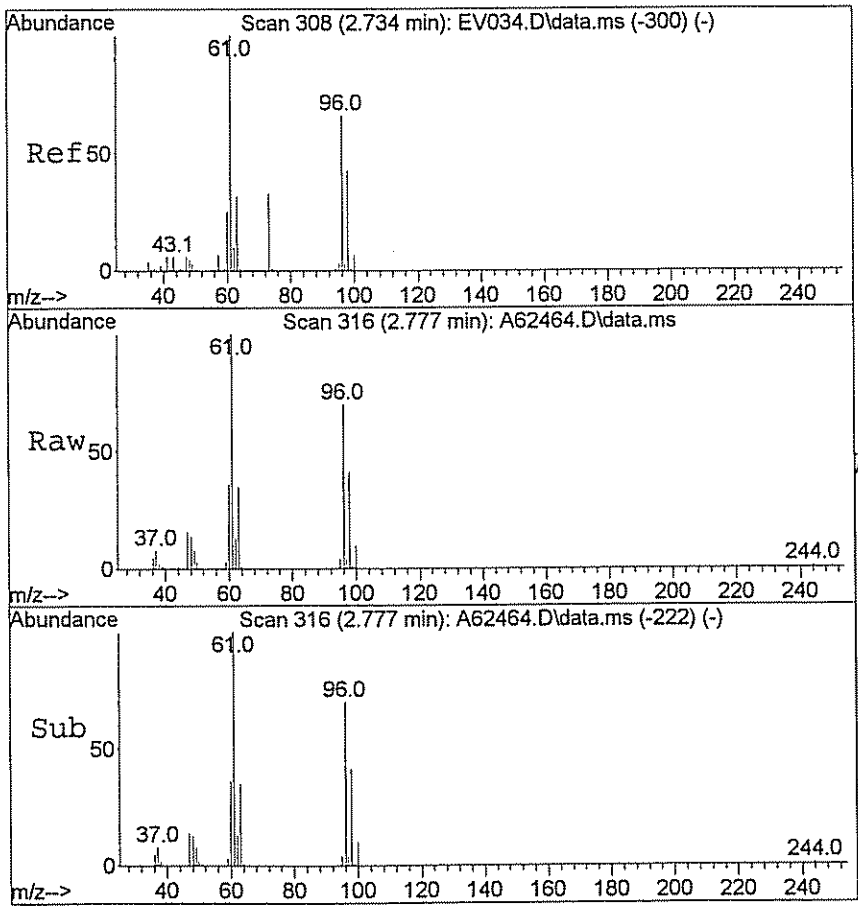


#9
Freon 113
Concen: 147.34 ug/L
RT: 2.205 min Scan# 209
Delta R.T. 0.005 min
Lab File: A62464.D
Acq: 23 Mar 2009 22:48

Tgt Ion:101 Resp: 136890

Ion	Ratio	Lower	Upper
101	100		
151	92.8	69.1	103.7

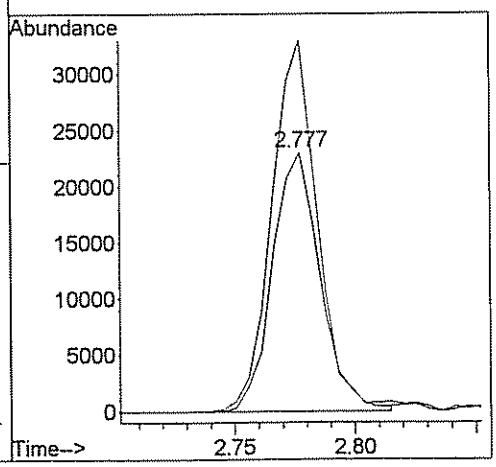


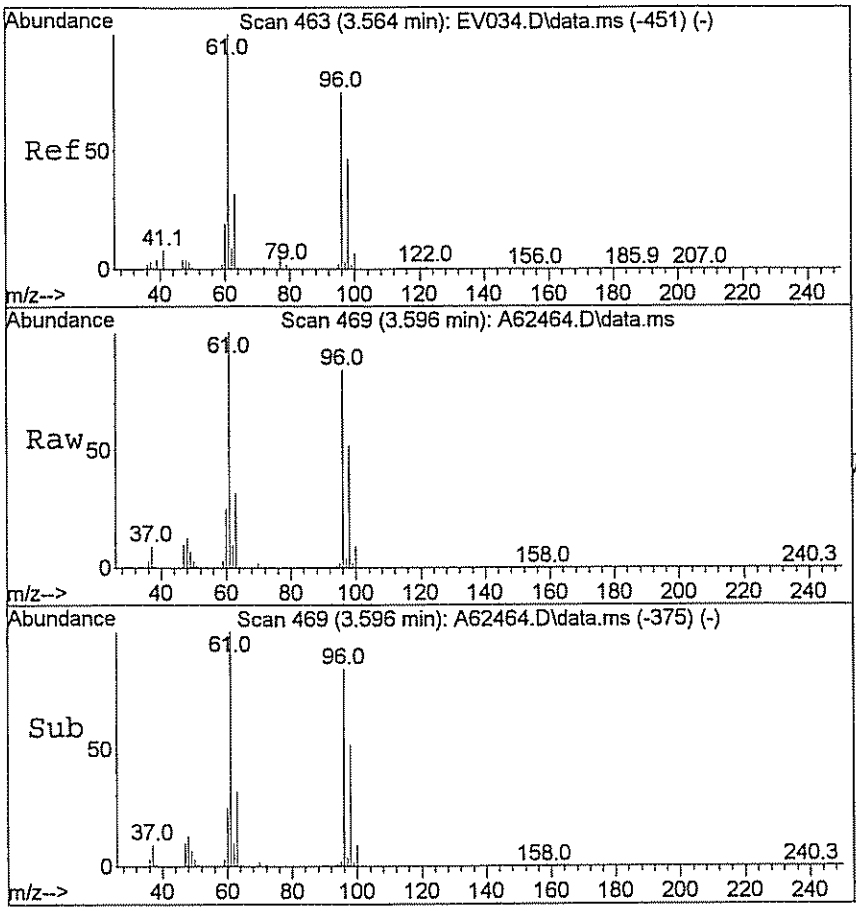


#16
Trans-1,2-dichloroethene
Concen: 29.04 ug/L
RT: 2.777 min Scan# 316
Delta R.T. 0.005 min
Lab File: A62464.D
Acq: 23 Mar 2009 22:48

Tgt Ion: 96 Resp: 31806

Ion	Ratio	Lower	Upper
96	100		
61	139.0	124.0	186.0

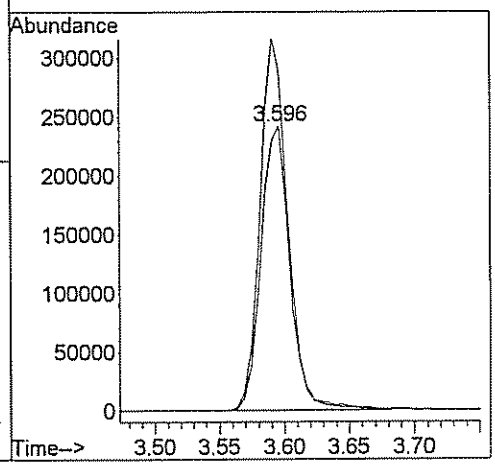


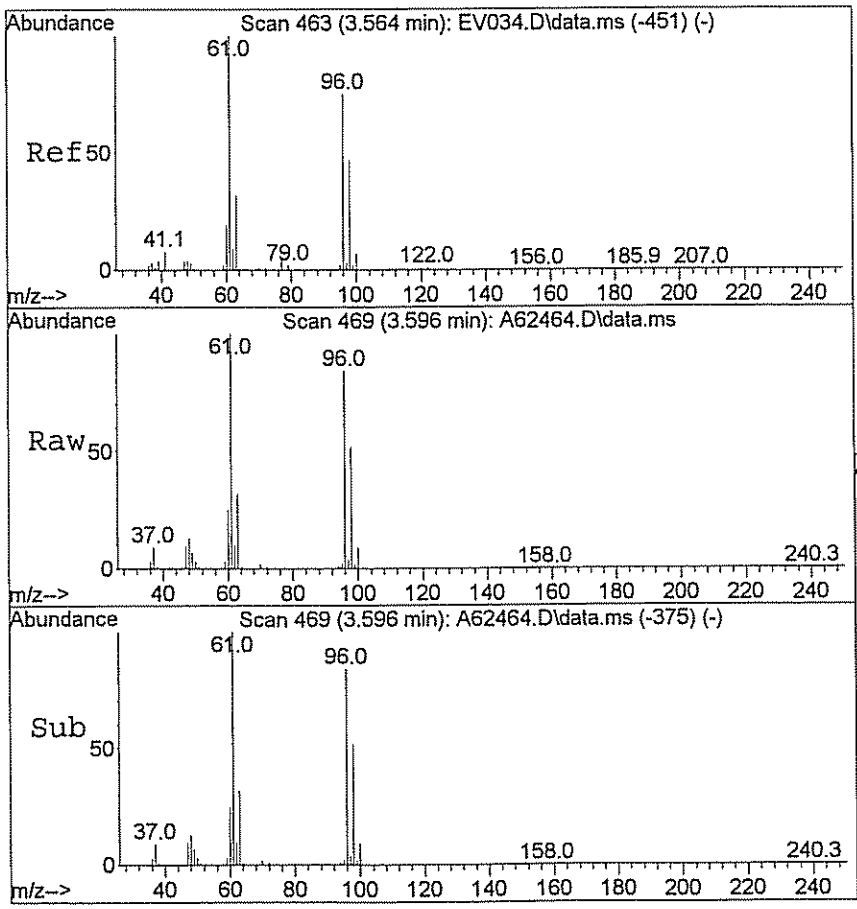


#28
Cis-1,2-dichloroethene
Concen: 288.76 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62464.D
Acq: 23 Mar 2009 22:48

Tgt Ion: 96 Resp: 376132

Ion	Ratio	Lower	Upper
96	100		
61	127.6	115.0	172.6

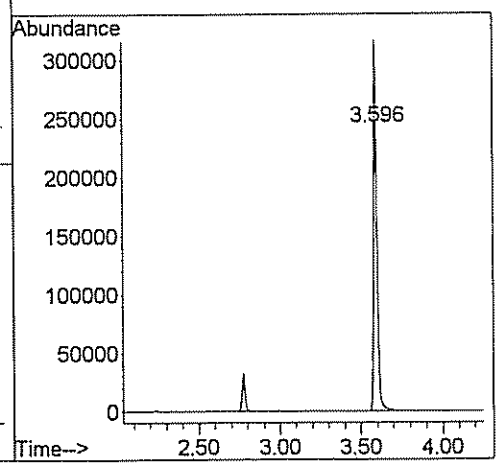


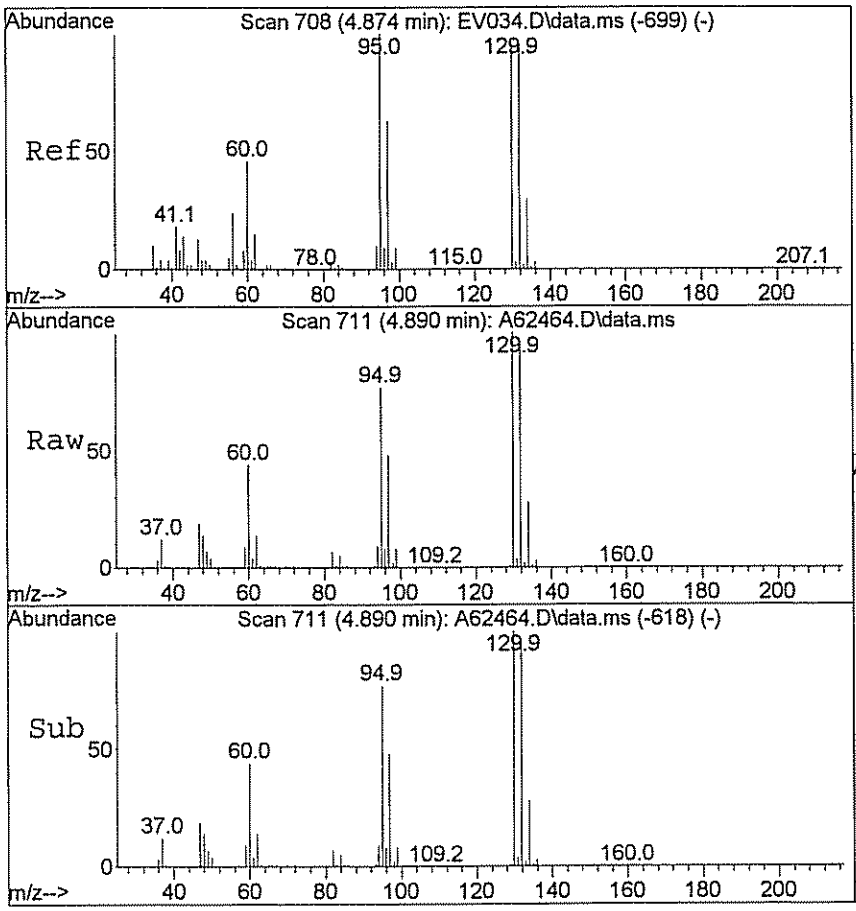


#29
1,2-dichloroethene(total)
Concen: 345.49 ug/L m
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62464.D
Acq: 23 Mar 2009 22:48

Tgt Ion: 96 Resp: 410897

Ion	Ratio	Lower	Upper
96	100		
61	116.8	115.0	172.6

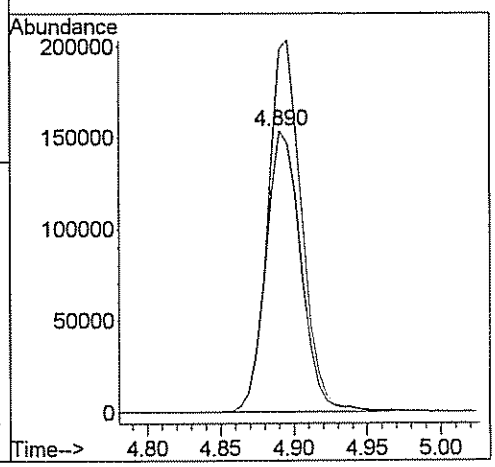


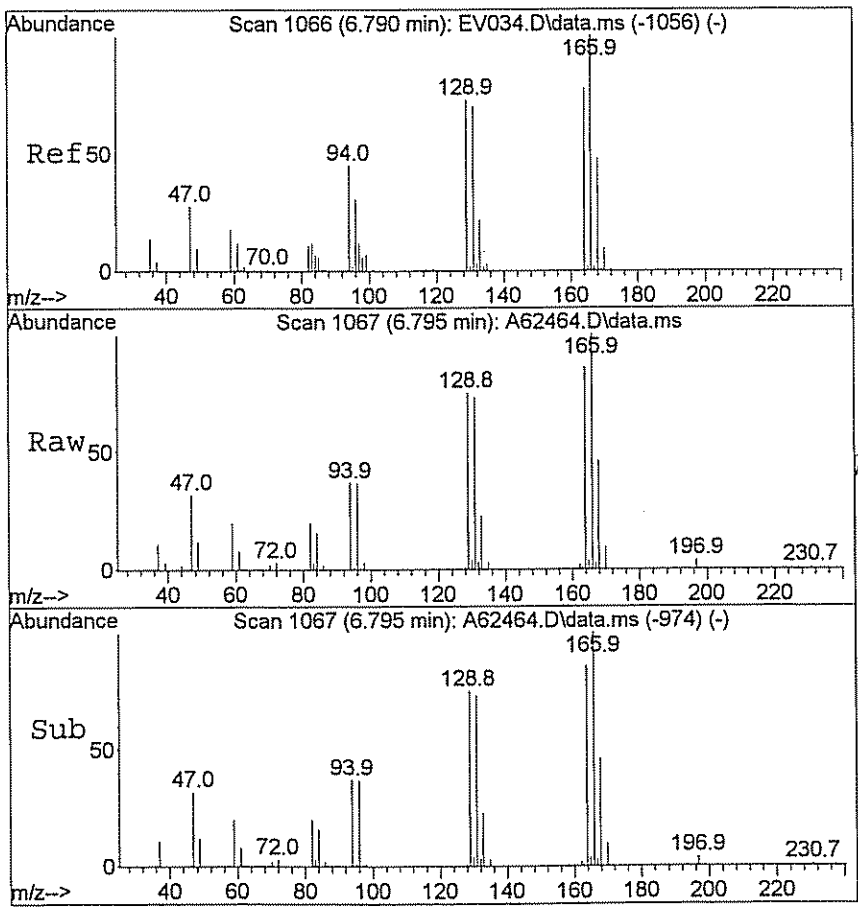


#46
Trichloroethene
Concen: 194.12 ug/L
RT: 4.890 min Scan# 711
Delta R.T. -0.000 min
Lab File: A62464.D
Acq: 23 Mar 2009 22:48

Tgt Ion: 95 Resp: 255507

Ion	Ratio	Lower	Upper
95	100		
130	127.8	79.7	119.5#

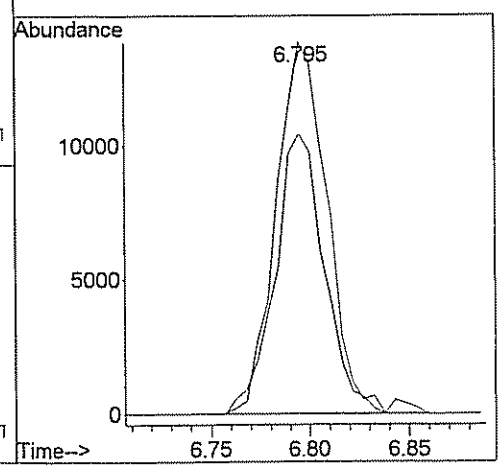


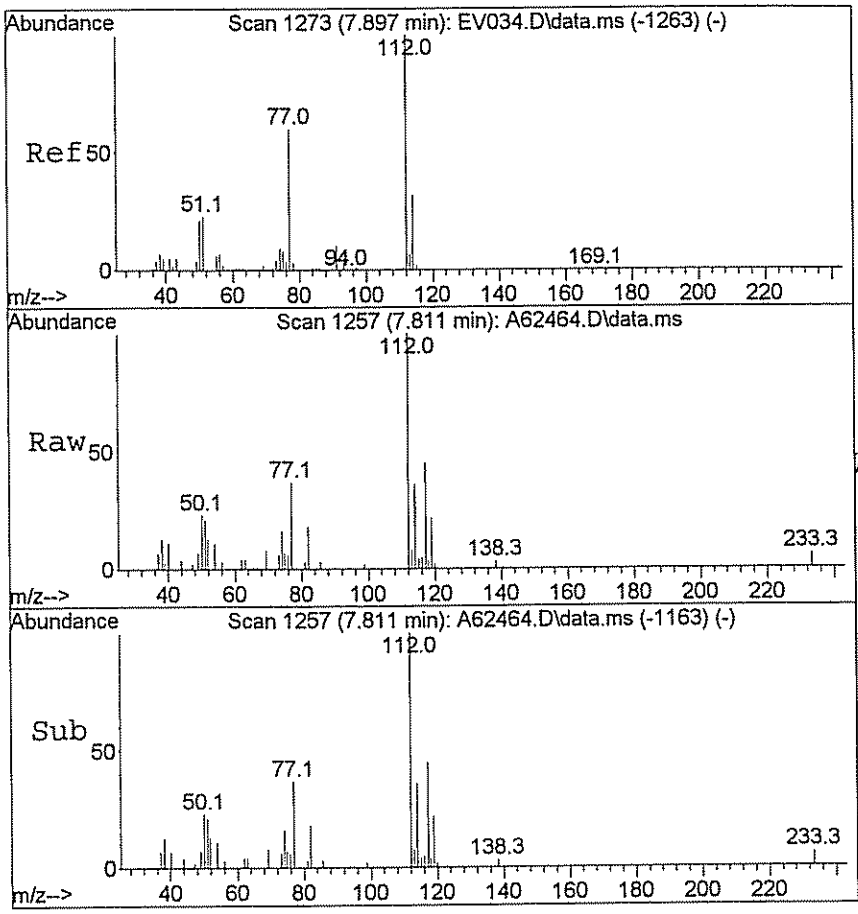


#61
Tetrachloroethene
Concen: 16.37 ug/L
RT: 6.795 min Scan# 1067
Delta R.T. -0.000 min
Lab File: A62464.D
Acq: 23 Mar 2009 22:48

Tgt Ion:166 Resp: 24730

Ion	Ratio	Lower	Upper
166	100		
129	73.1	58.6	88.0

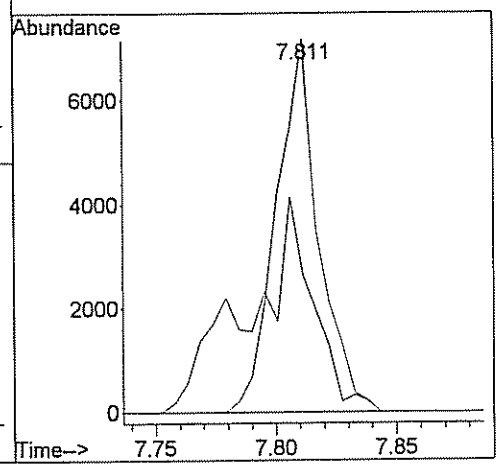


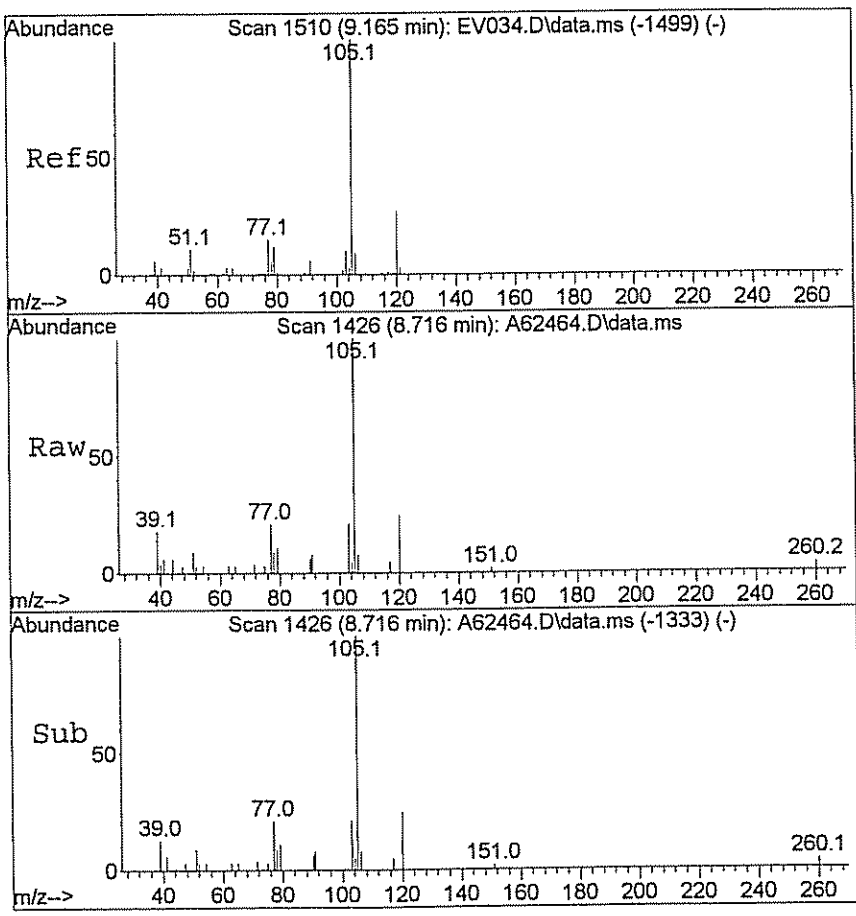


#66
Chlorobenzene
Concen: 1.88 ug/L
RT: 7.811 min Scan# 1257
Delta R.T. 0.005 min
Lab File: A62464.D
Acq: 23 Mar 2009 22:48

Tgt Ion:112 Resp: 8812

Ion	Ratio	Lower	Upper
112	100		
77	53.9	49.6	74.4

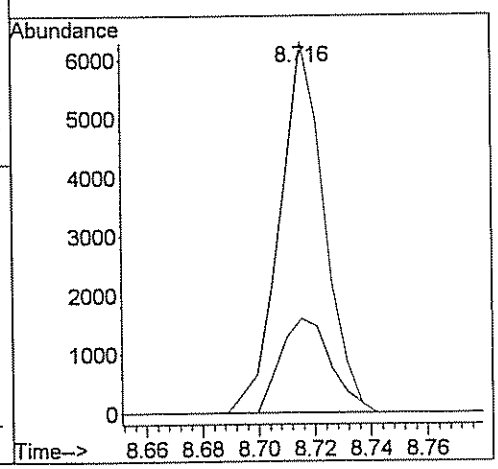




#74
Isopropylbenzene
Concen: 0.96 ug/L
RT: 8.716 min Scan# 1426
Delta R.T. -0.000 min
Lab File: A62464.D
Acq: 23 Mar 2009 22:48

Tgt Ion:105 Resp: 6967

Ion	Ratio	Lower	Upper
105	100		
120	28.9	21.8	32.6



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-026-2/3
Sample Volume :	.5	Lab File ID :	A62521.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-026-2/3
Sample Volume :	.5	Lab File ID :	A62521.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	10	U
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	10	U
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-026-2/3
Sample Volume :	.5	Lab File ID :	A62521.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	10	U
156-59-2	cis-1,2-Dichloroethene	180	
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62521.D
Acq On : 25 Mar 2009 16:35
Operator : SM
Sample : 903069-006
Misc : OUI-16GW04-0309,CH2M HILL,10X
ALS Vial : 11 Sample Multiplier: 1

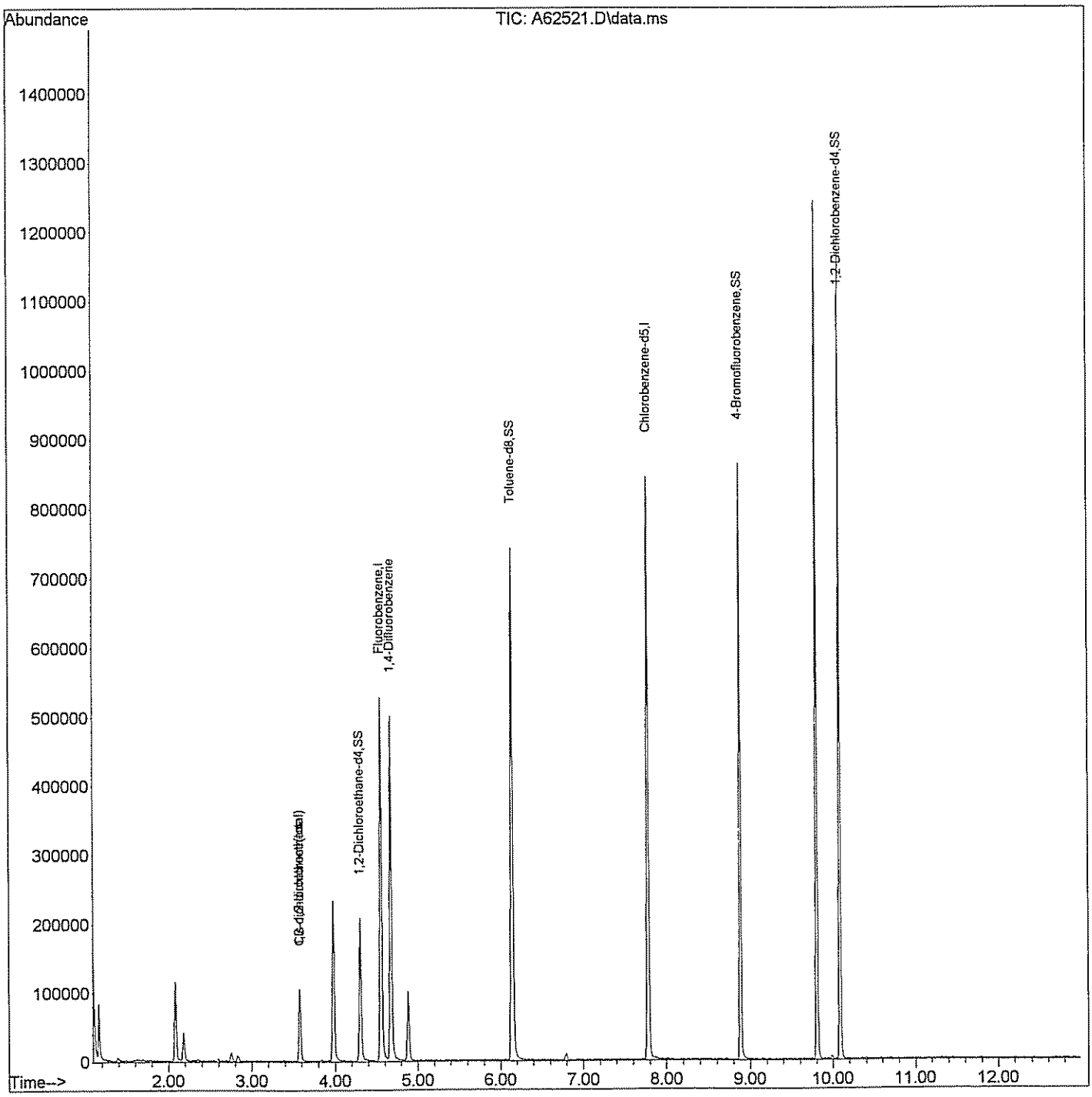
Quant Time: Mar 26 16:42:52 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

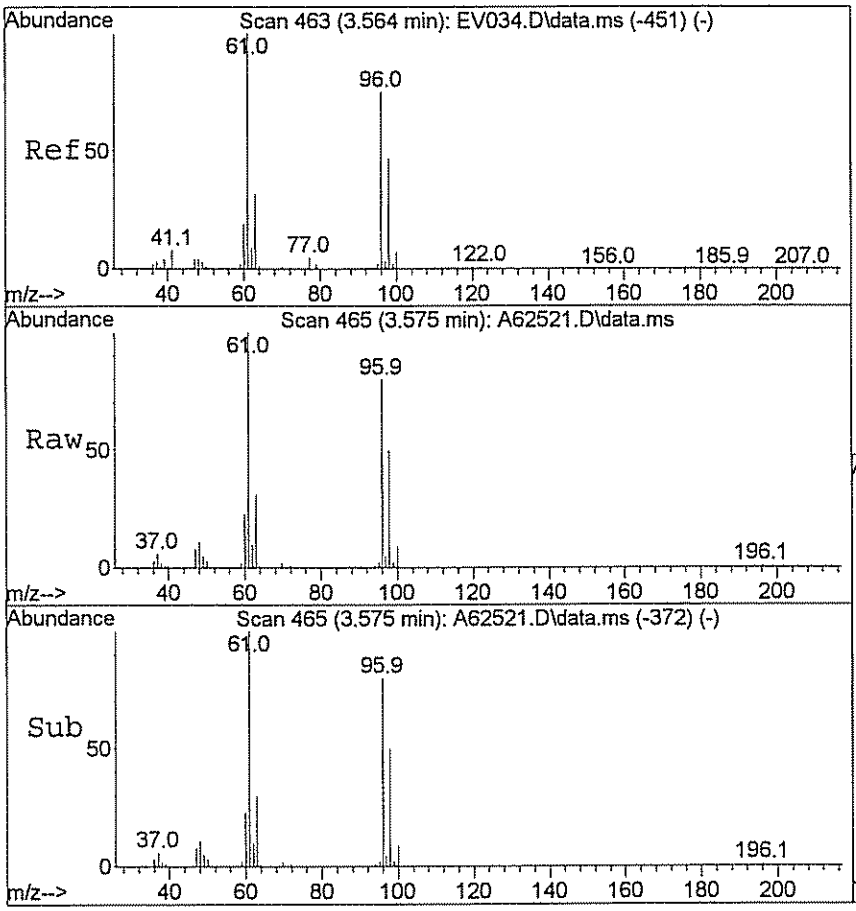
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.554	96	391134	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	363605	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	406874	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	110953	53.40	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.80%			
54) Toluene-d8	6.142	98	458520	54.42	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 108.84%			
76) 4-Bromofluorobenzene	8.881	95	185493	48.37	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.74%			
92) 1,2-Dichlorobenzene-d4	10.085	152	206735	54.96	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 109.92%			
Target Compounds						Qvalue
28) Cis-1,2-dichloroethene	3.575	96	36234	18.30	ug/L	82
29) 1,2-dichloroethene(total)	3.575	96	40643m	19.39	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62521.D
Acq On : 25 Mar 2009 16:35
Operator : SM
Sample : 903069-006
Misc : OUI-16GW04-0309,CH2M HILL,10X
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 26 16:42:52 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

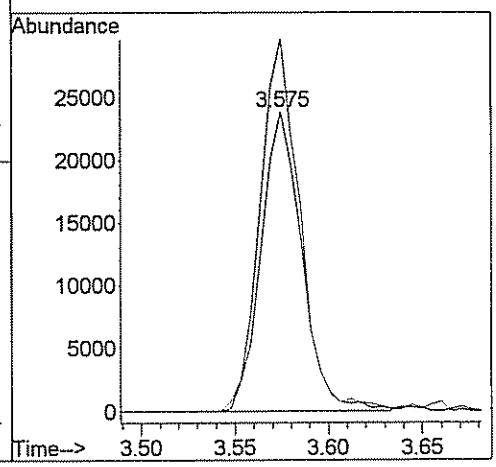


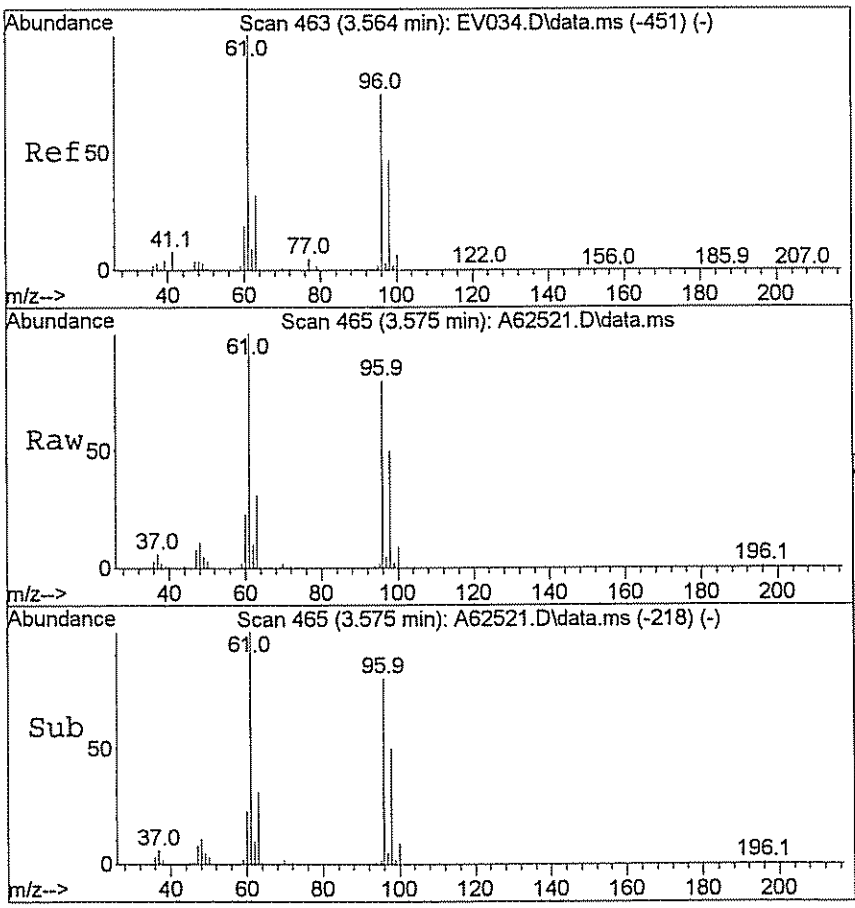


#28
Cis-1,2-dichloroethene
Concen: 18.30 ug/L
RT: 3.575 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62521.D
Acq: 25 Mar 2009 16:35

Tgt Ion: 96 Resp: 36234

Ion	Ratio	Lower	Upper
96	100		
61	121.6	115.0	172.6

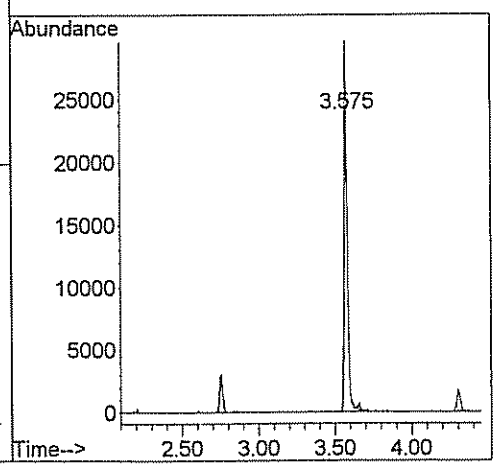




#29
1,2-dichloroethene(total)
Concen: 19.39 ug/L m
RT: 3.575 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62521.D
Acq: 25 Mar 2009 16:35

Tgt Ion: 96 Resp: 40643

Ion	Ratio	Lower	Upper
96	100		
61	10.8	115.0	172.6#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9
Sample Volume :	5	Lab File ID :	A62515.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9
Sample Volume :	5	Lab File ID :	A62515.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	15	
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.3	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	3.9	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9
Sample Volume :	5	Lab File ID :	A62515.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	4.5	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62515.D
Acq On : 25 Mar 2009 14:20
Operator : SM
Sample : 903069-007
Misc : OUI-16GW02-0309,CH2M HILL,WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 26 16:19:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

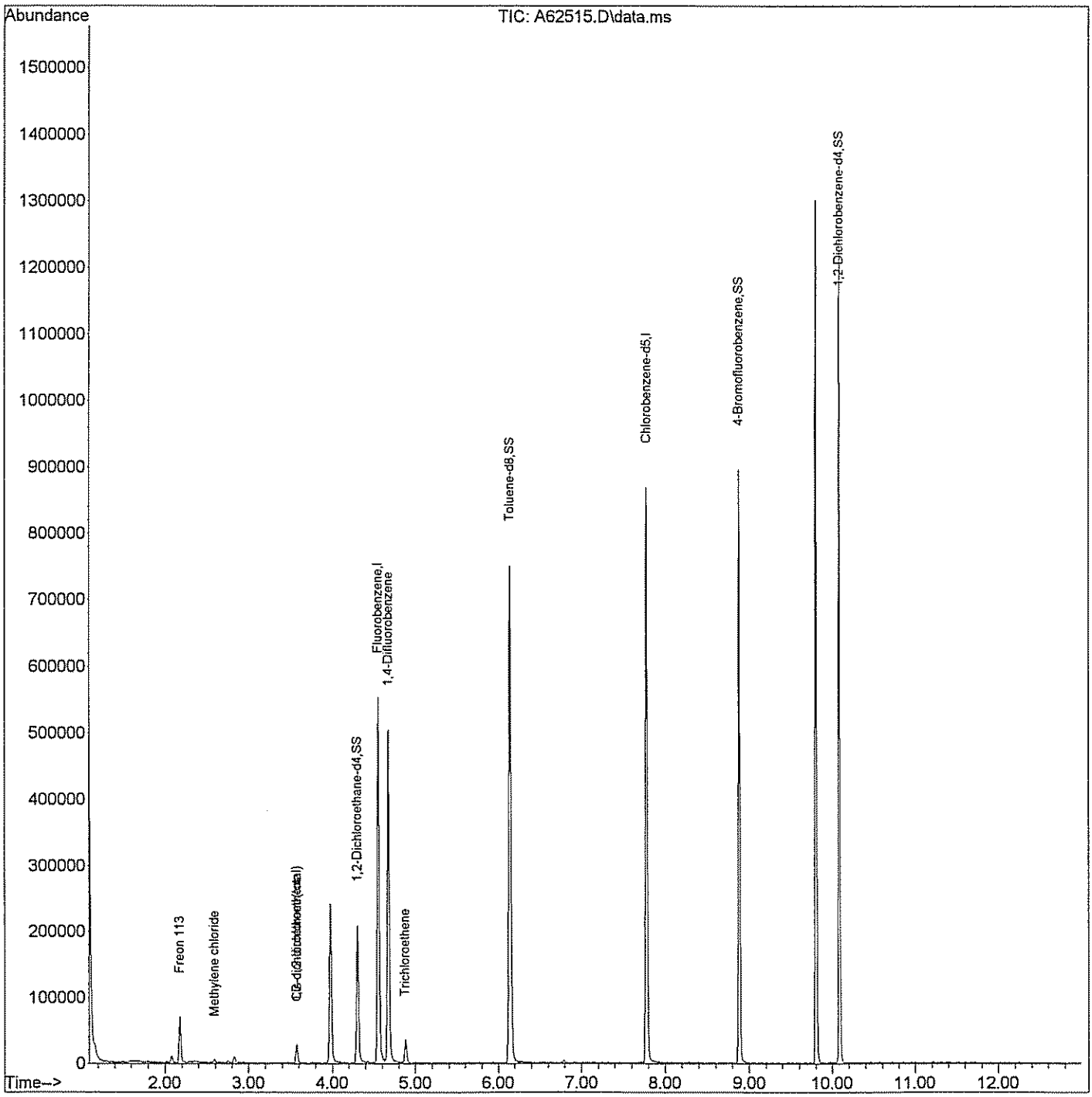
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.554	96	406376	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.677	114	368175	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	420476	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	111210	51.51	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.02%				
54) Toluene-d8	6.142	98	467562	54.80	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 109.60%				
76) 4-Bromofluorobenzene	8.881	95	187171	47.22	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.44%				
92) 1,2-Dichlorobenzene-d4	10.085	152	214928	55.29	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 110.58%				
Target Compounds							Qvalue
9) Freon 113	2.178	101	18858	14.66	ug/L		89
15) Methylene chloride	2.590	84	1332	2.34	ug/L	#	60
28) Cis-1,2-dichloroethene	3.575	96	9290	4.52	ug/L		86
29) 1,2-dichloroethene(total)	3.575	96	10486m	4.82	ug/L		
47) Trichloroethene	4.880	95	7829	3.91	ug/L	#	78

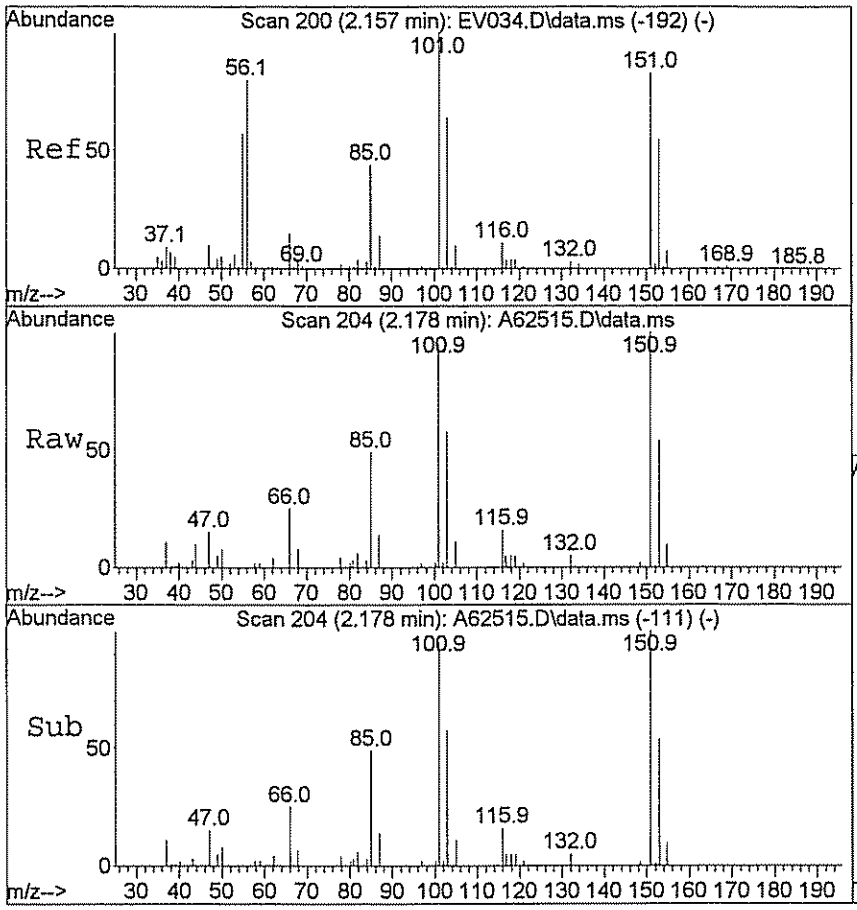
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62515.D
Acq On : 25 Mar 2009 14:20
Operator : SM
Sample : 903069-007
Misc : OUI-16GW02-0309,CH2M HILL,WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 26 16:19:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

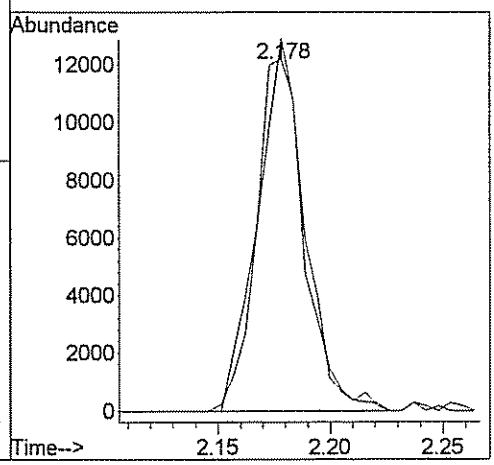


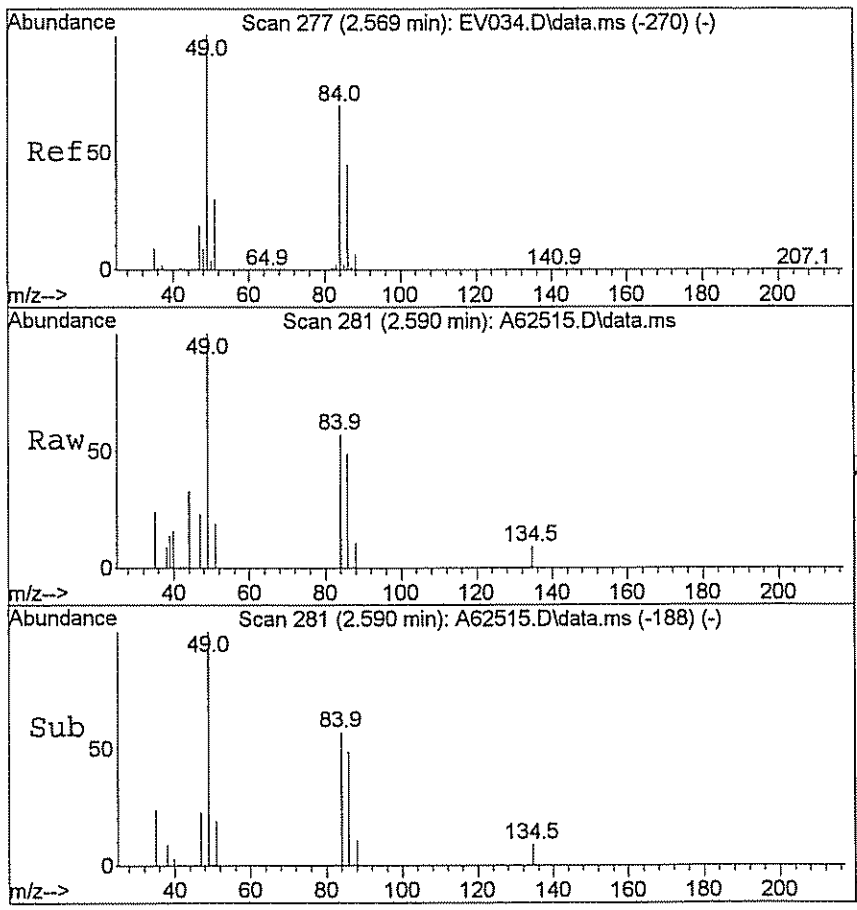


#9
Freon 113
Concen: 14.66 ug/L
RT: 2.178 min Scan# 204
Delta R.T. -0.005 min
Lab File: A62515.D
Acq: 25 Mar 2009 14:20

Tgt Ion:101 Resp: 18858

Ion	Ratio	Lower	Upper
101	100		
151	96.8	69.1	103.7

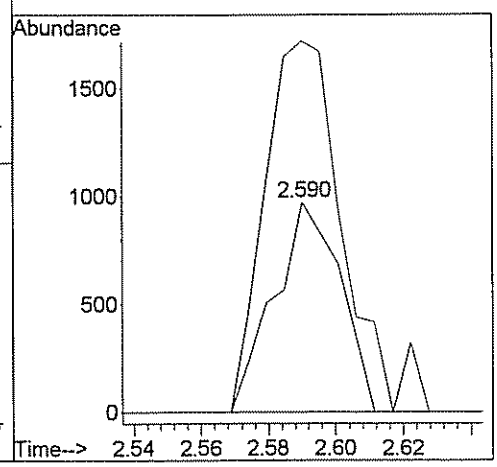


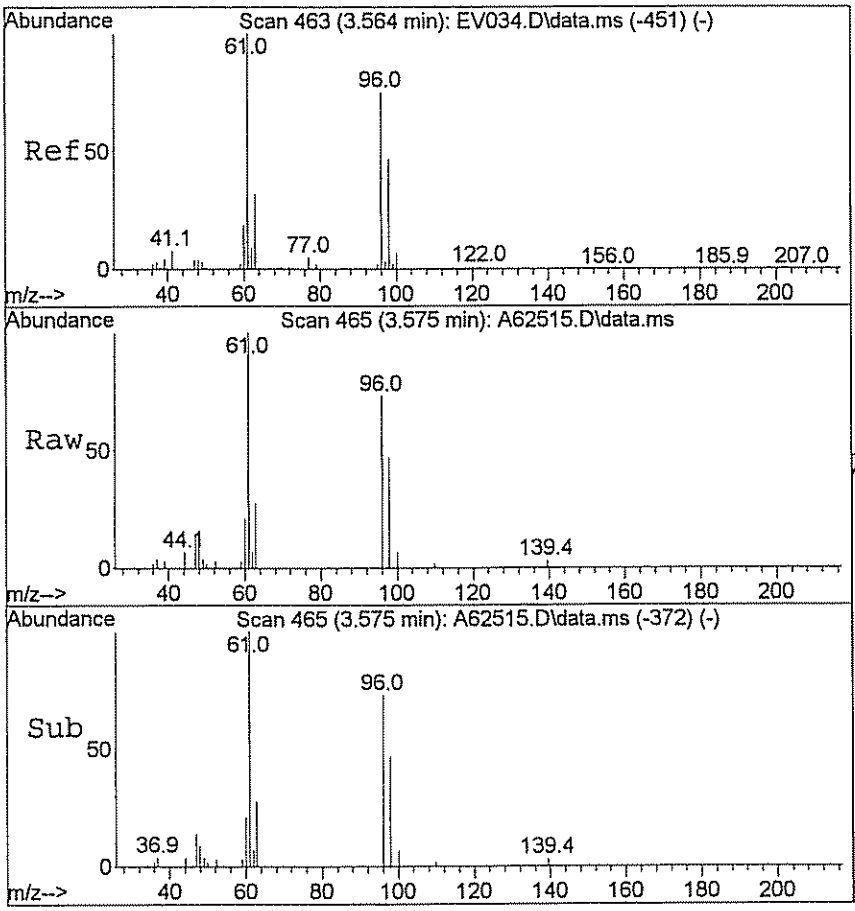


#15
Methylene chloride
Concen: 2.34 ug/L
RT: 2.590 min Scan# 281
Delta R.T. -0.005 min
Lab File: A62515.D
Acq: 25 Mar 2009 14:20

Tgt Ion: 84 Resp: 1332

Ion	Ratio	Lower	Upper
84	100		
49	209.8	125.9	188.9#

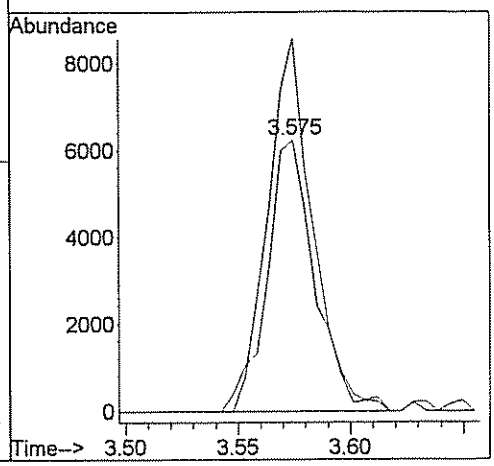


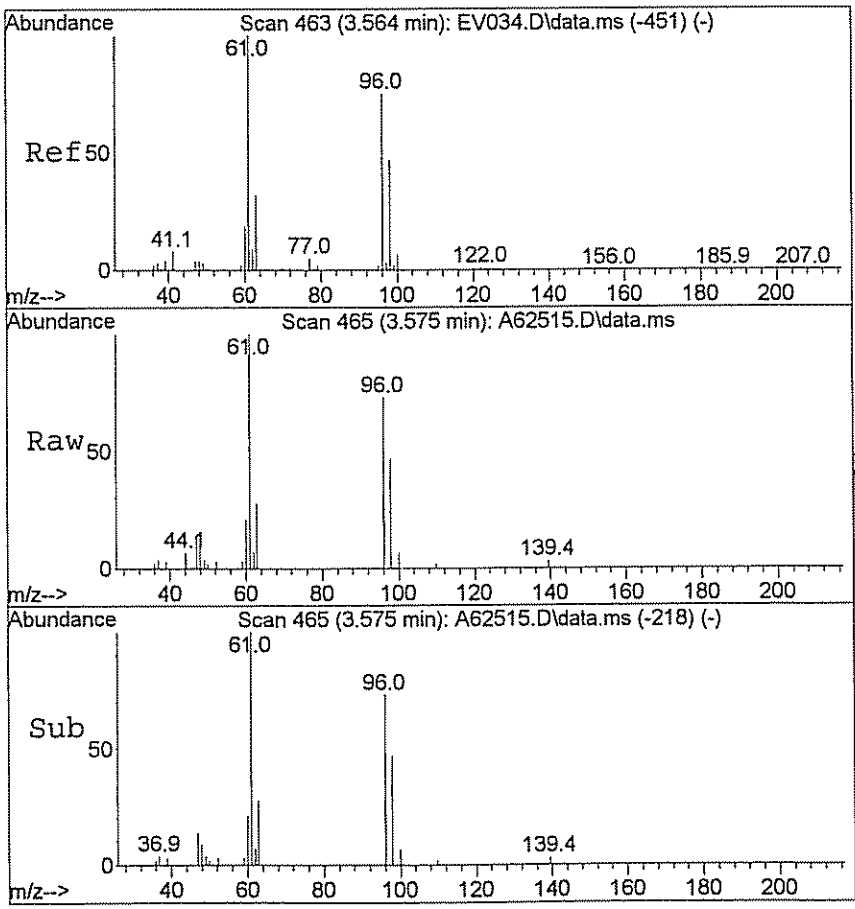


#28
Cis-1,2-dichloroethene
Concen: 4.52 ug/L
RT: 3.575 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62515.D
Acq: 25 Mar 2009 14:20

Tgt Ion: 96 Resp: 9290

Ion	Ratio	Lower	Upper
96	100		
61	126.8	115.0	172.6

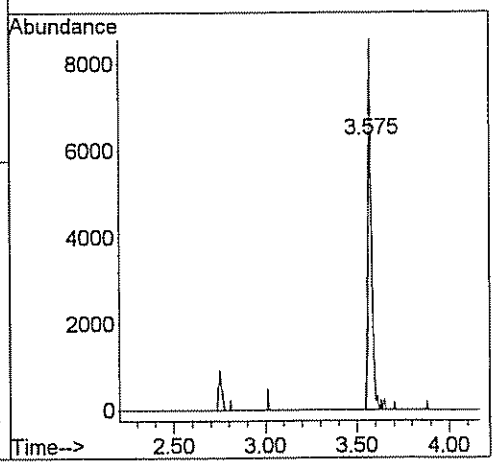


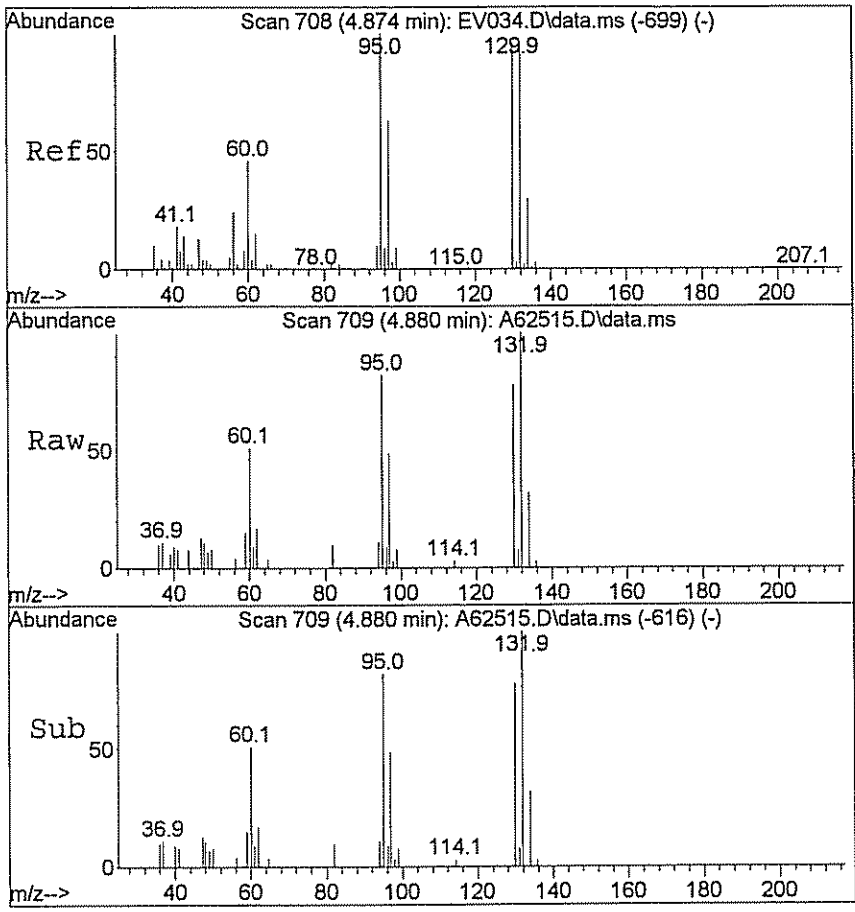


#29
1,2-dichloroethene(total)
Concen: 4.82 ug/L m
RT: 3.575 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62515.D
Acq: 25 Mar 2009 14:20

Tgt Ion: 96 Resp: 10486

Ion	Ratio	Lower	Upper
96	100		
61	10.4	115.0	172.6#

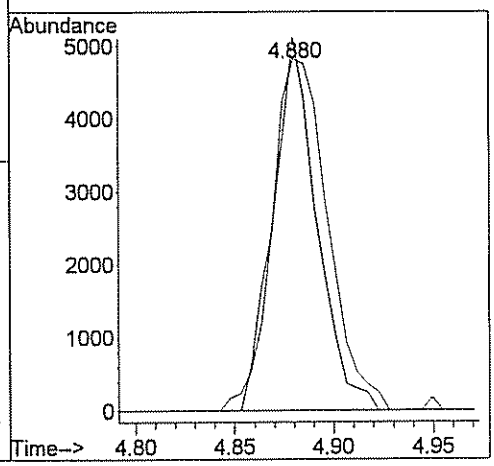




#47
Trichloroethene
Concen: 3.91 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62515.D
Acq: 25 Mar 2009 14:20

Tgt Ion: 95 Resp: 7829

Ion	Ratio	Lower	Upper
95	100		
130	121.8	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-001-1/3
Sample Volume :	5	Lab File ID :	A62466.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-001-1/3
Sample Volume :	5	Lab File ID :	A62466.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	3.1	
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.6	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-001-1/3
Sample Volume :	5	Lab File ID :	A62466.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	9.0	
156-59-2	cis-1,2-Dichloroethene	30	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62466.D
Acq On : 23 Mar 2009 23:28
Operator : SM
Sample : 903069-008
Misc : OUI-MW48-0309,CH2M HILL,WATER
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Mar 26 10:45:38 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

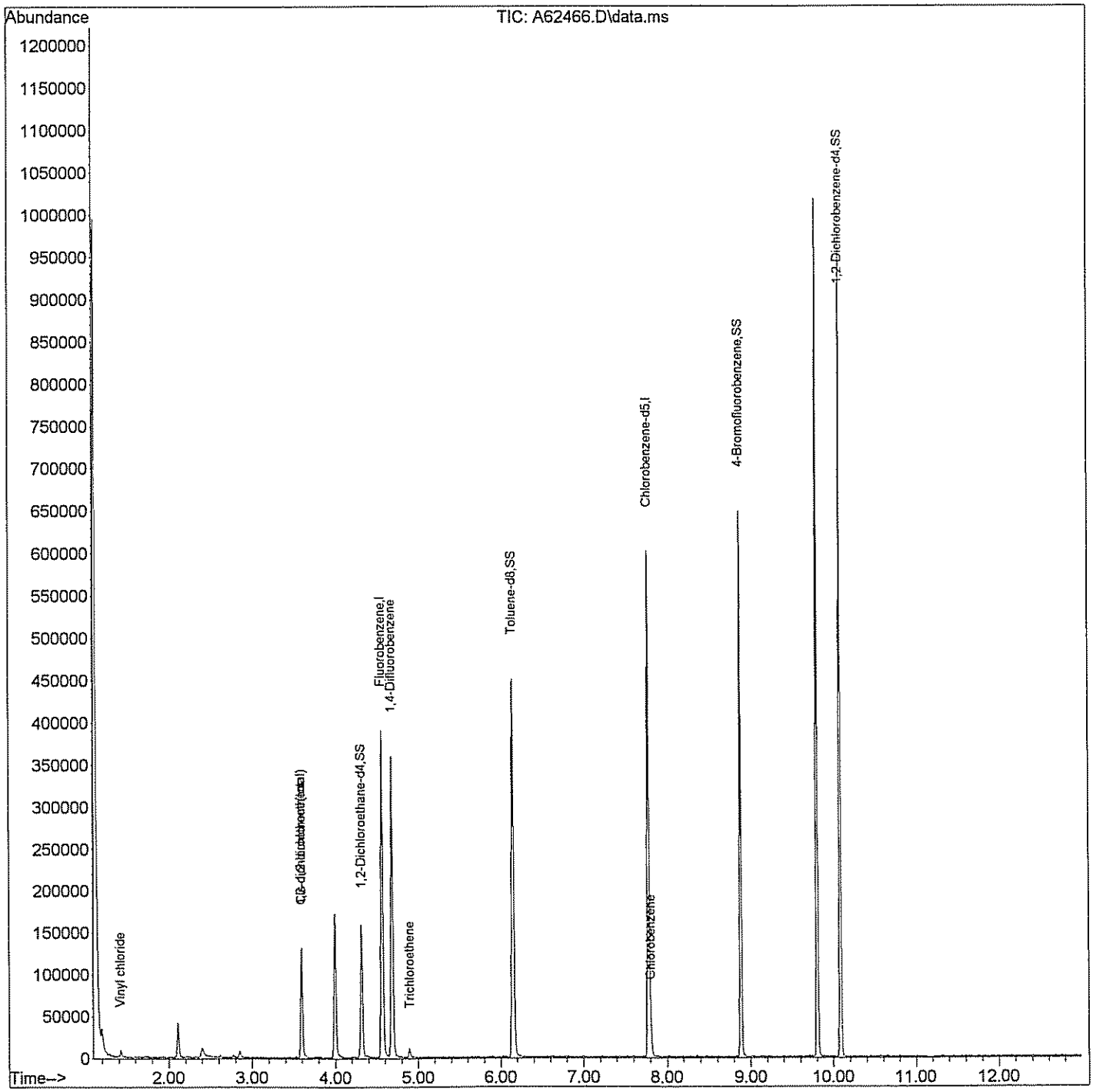
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.564	96	288384	50.00	ug/L	0.00
40) 1,4-Difluorobenzene		4.687	114	249646	50.00	ug/L	# 0.00
58) Chlorobenzene-d5		7.779	117	286498	50.00	ug/L	0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4		4.318	65	81187	50.96	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery =	101.92%		
53) Toluene-d8		6.148	98	263294	47.52	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery =	95.04%		
75) 4-Bromofluorobenzene		8.881	95	133424	46.93	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery =	93.86%		
91) 1,2-Dichlorobenzene-d4		10.085	152	169598	54.68	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery =	109.36%		
Target Compounds							Qvalue
4) Vinyl chloride		1.424	62	5961	9.05	ug/L	100
28) Cis-1,2-dichloroethene		3.596	96	41378	30.17	ug/L	89
29) 1,2-dichloroethene(total)		3.596	96	42821m	34.19	ug/L	
46) Trichloroethene		4.901	95	2135	1.55	ug/L	88
66) Chlorobenzene		7.811	112	14400	3.06	ug/L	85

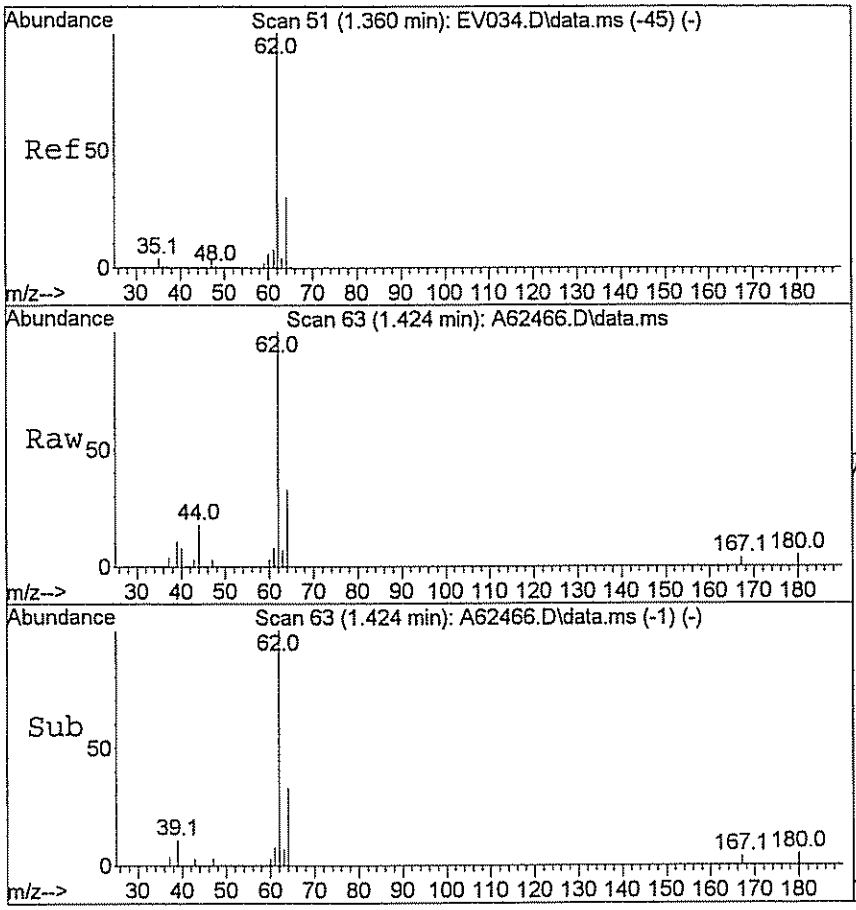
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62466.D
Acq On : 23 Mar 2009 23:28
Operator : SM
Sample : 903069-008
Misc : OUI-MW48-0309,CH2M HILL,WATER
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Mar 26 10:45:38 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

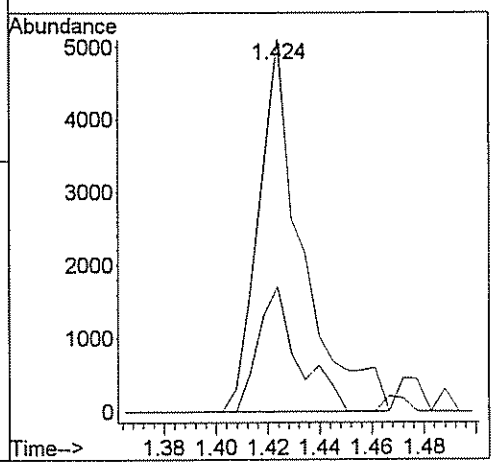


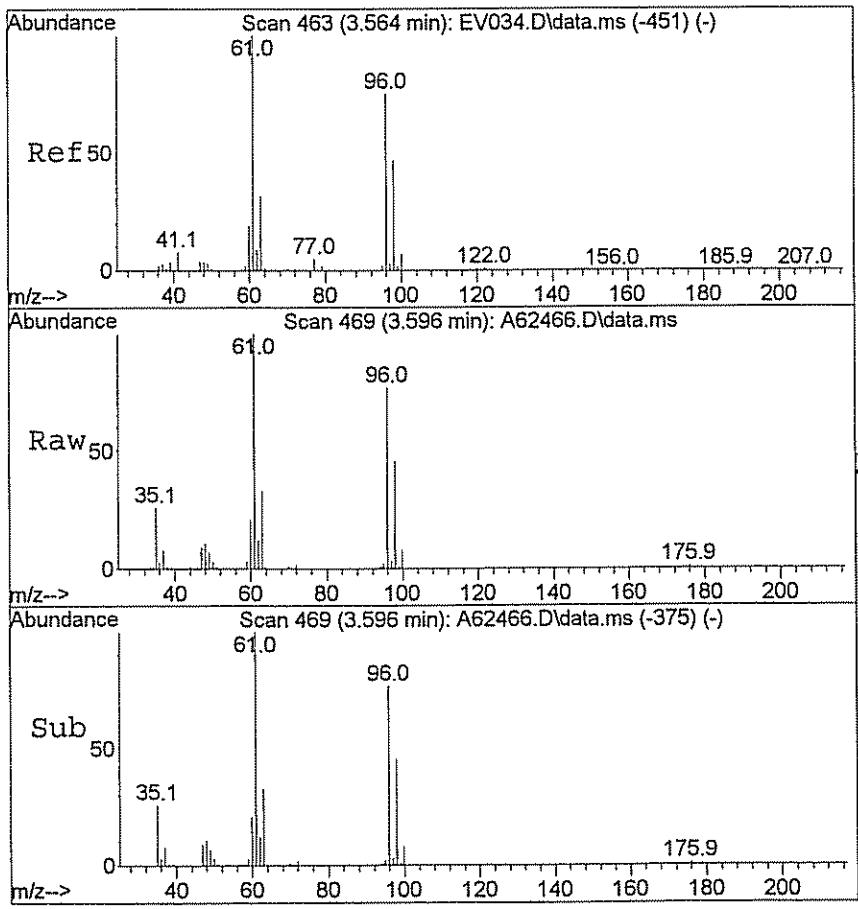


#4
Vinyl chloride
Concen: 9.05 ug/L
RT: 1.424 min Scan# 63
Delta R.T. 0.011 min
Lab File: A62466.D
Acq: 23 Mar 2009 23:28

Tgt Ion: 62 Resp: 5961

Ion	Ratio	Lower	Upper
62	100		
64	30.9	24.5	36.7

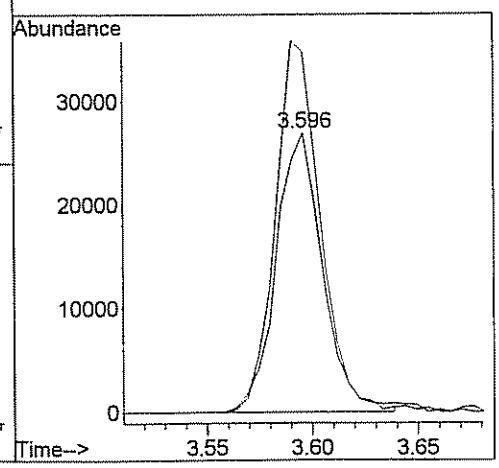


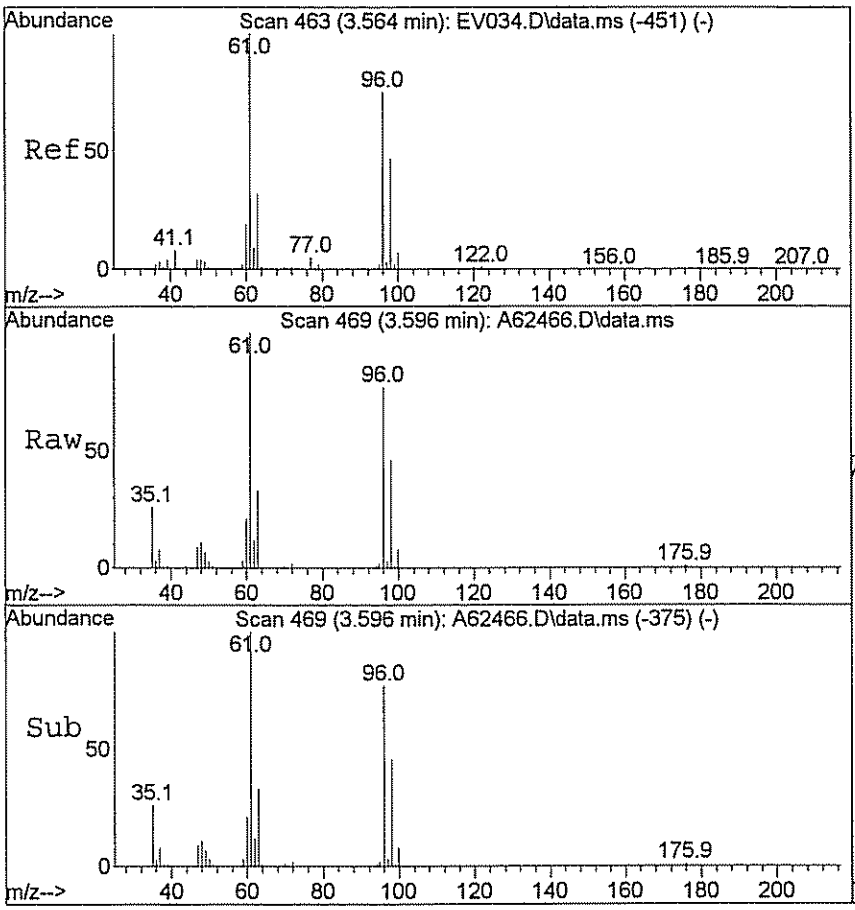


#28
Cis-1,2-dichloroethene
Concen: 30.17 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62466.D
Acq: 23 Mar 2009 23:28

Tgt Ion: 96 Resp: 41378

Ion	Ratio	Lower	Upper
96	100		
61	129.9	115.0	172.6

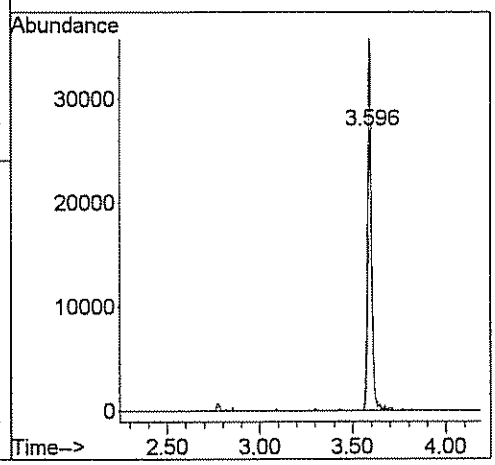


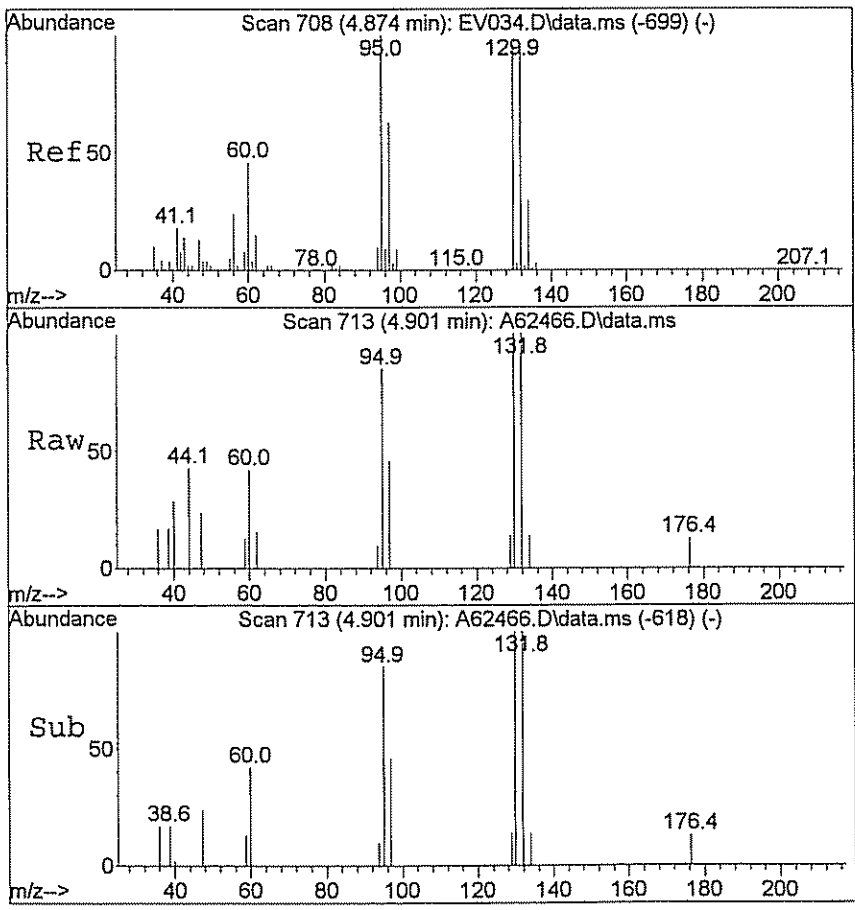


#29
1,2-dichloroethene(total)
Concen: 34.19 ug/L m
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62466.D
Acq: 23 Mar 2009 23:28

Tgt Ion: 96 Resp: 42821

Ion	Ratio	Lower	Upper
96	100		
61	125.5	115.0	172.6

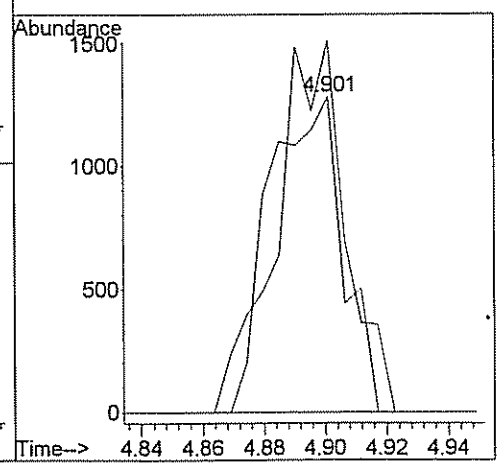


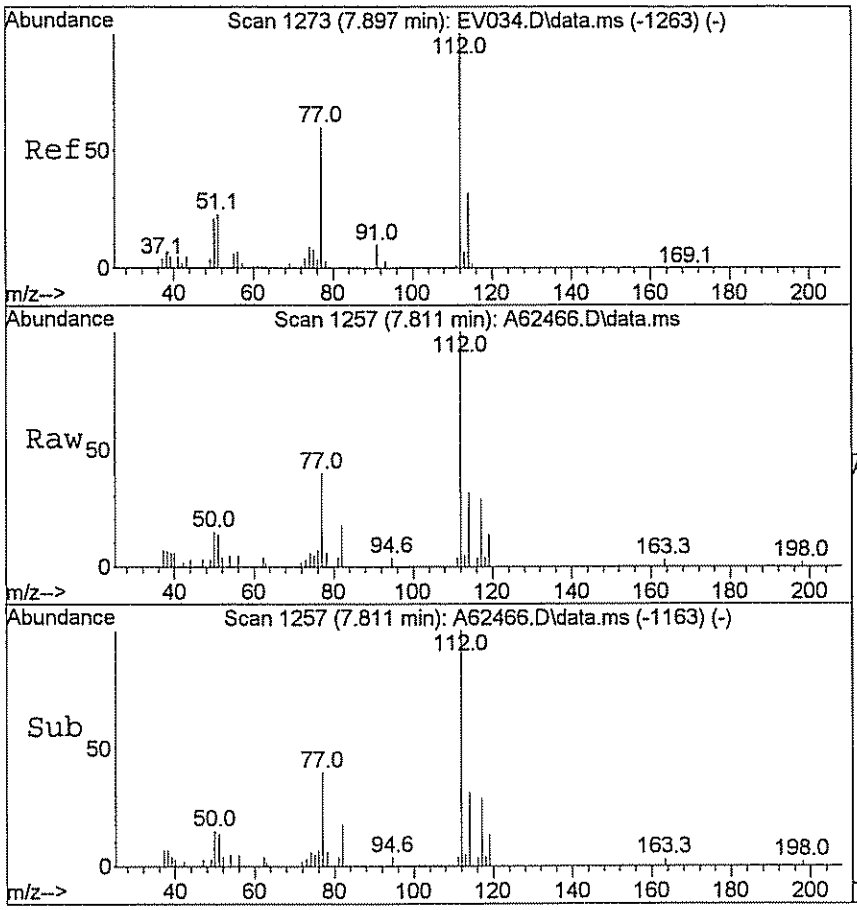


#46
Trichloroethene
Concen: 1.55 ug/L
RT: 4.901 min Scan# 713
Delta R.T. 0.011 min
Lab File: A62466.D
Acq: 23 Mar 2009 23:28

Tgt Ion: 95 Resp: 2135

Ion	Ratio	Lower	Upper
95	100		
130	111.3	79.7	119.5

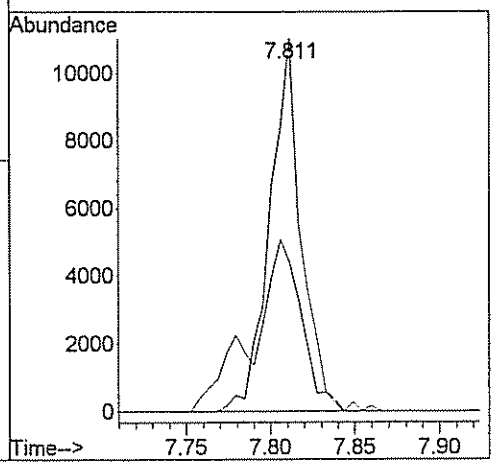




#66
Chlorobenzene
Concen: 3.06 ug/L
RT: 7.811 min Scan# 1257
Delta R.T. 0.005 min
Lab File: A62466.D
Acq: 23 Mar 2009 23:28

Tgt Ion:112 Resp: 14400

Ion	Ratio	Lower	Upper
112	100		
77	50.2	49.6	74.4



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-004-1/3
Sample Volume :	5	Lab File ID :	A62485.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-004-1/3
Sample Volume :	5	Lab File ID :	A62485.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-004-1/3
Sample Volume :	5	Lab File ID :	A62485.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62485.D
Acq On : 24 Mar 2009 15:12
Operator : SM
Sample : 903069-009
Misc : OUI-MW12-0309,CH2M HILL,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 26 15:01:25 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

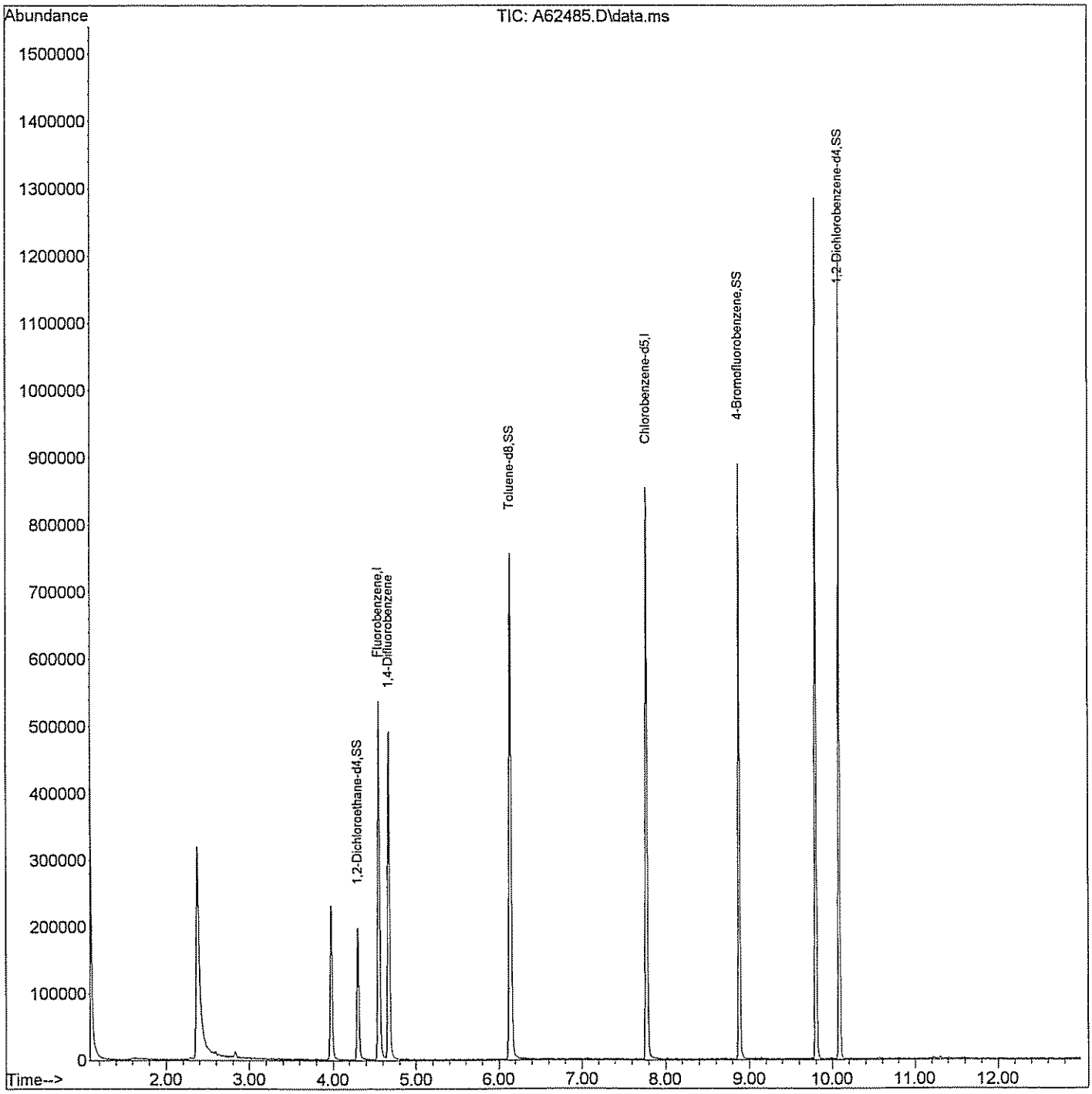
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	390864	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	353666	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	413743	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	106967	51.51	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.02%			
54) Toluene-d8	6.142	98	466265	56.89	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 113.78%			
76) 4-Bromofluorobenzene	8.881	95	182985	46.92	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 93.84%			
92) 1,2-Dichlorobenzene-d4	10.085	152	214680	56.13	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 112.26%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62485.D
Acq On : 24 Mar 2009 15:12
Operator : SM
Sample : 903069-009
Misc : OUI-MW12-0309,CH2M HILL,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 26 15:01:25 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-010-007-1/3
Sample Volume :	5	Lab File ID :	A62487.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-010-007-1/3
Sample Volume :	5	Lab File ID :	A62487.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-010-007-1/3
Sample Volume :	5	Lab File ID :	A62487.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62487.D
Acq On : 24 Mar 2009 15:52
Operator : SM
Sample : 903069-010
Misc : OUI-TB02-0309,CH2M HILL,WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 26 15:02:57 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

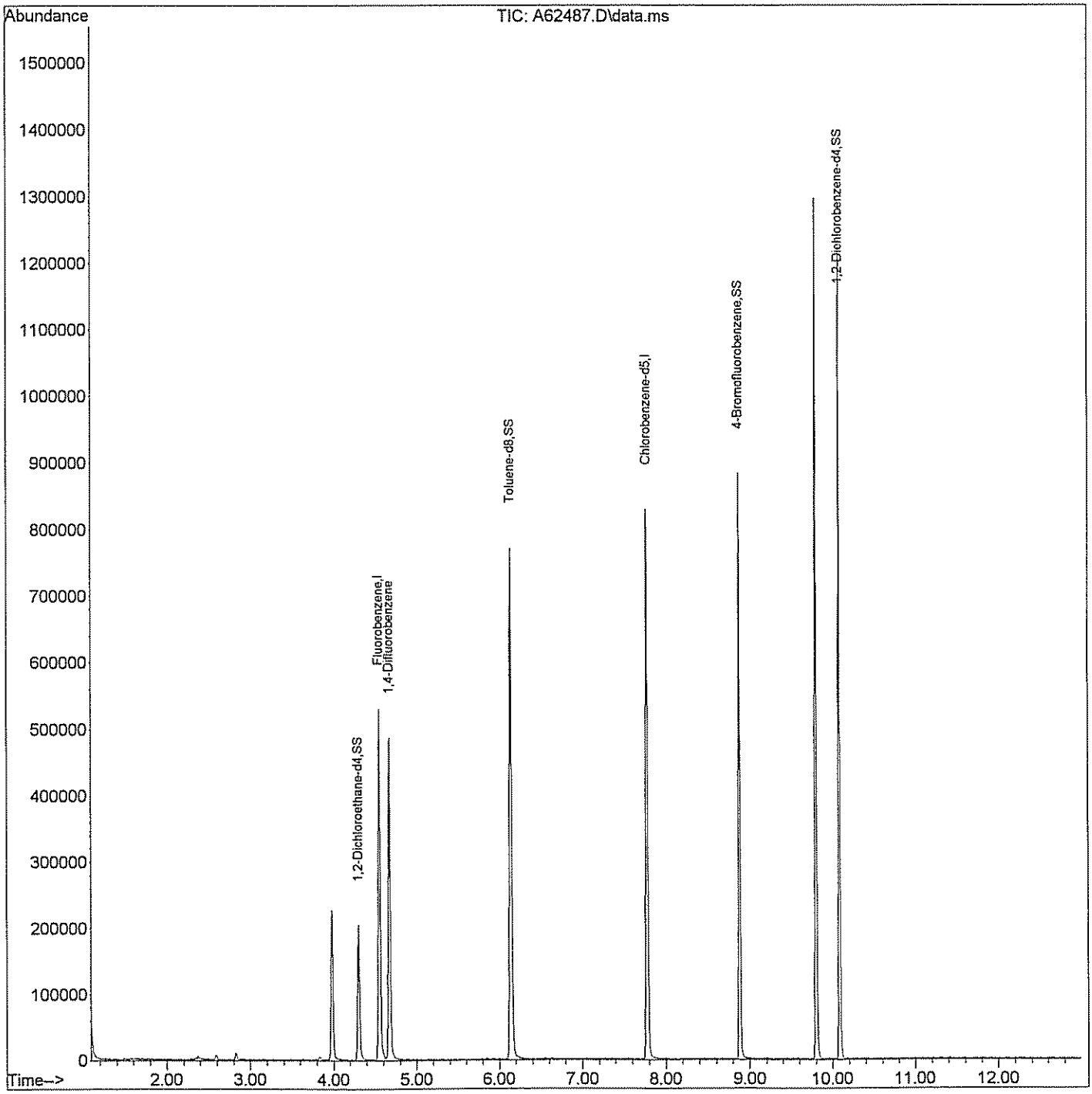
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.553	96	381625	50.00	ug/L	0.00
41) 1,4-Difluorobenzene		4.676	114	348862	50.00	ug/L	# 0.00
59) Chlorobenzene-d5		7.779	117	411492	50.00	ug/L	0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4		4.302	65	101953	50.29	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery = 100.58%			
54) Toluene-d8		6.142	98	468057	57.90	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery = 115.80%			
76) 4-Bromofluorobenzene		8.881	95	188678	48.64	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery = 97.28%			
92) 1,2-Dichlorobenzene-d4		10.085	152	210511	55.34	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery = 110.68%			
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62487.D
Acq On : 24 Mar 2009 15:52
Operator : SM
Sample : 903069-010
Misc : OUI-TB02-0309,CH2M HILL,WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 26 15:02:57 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-011-010-1/3
Sample Volume :	5	Lab File ID :	A62489.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-011-010-1/3
Sample Volume :	5	Lab File ID :	A62489.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-011-010-1/3
Sample Volume :	5	Lab File ID :	A62489.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62489.D
Acq On : 24 Mar 2009 16:56
Operator : SM
Sample : 903069-011
Misc : OUI-TB03-0309,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 26 15:05:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

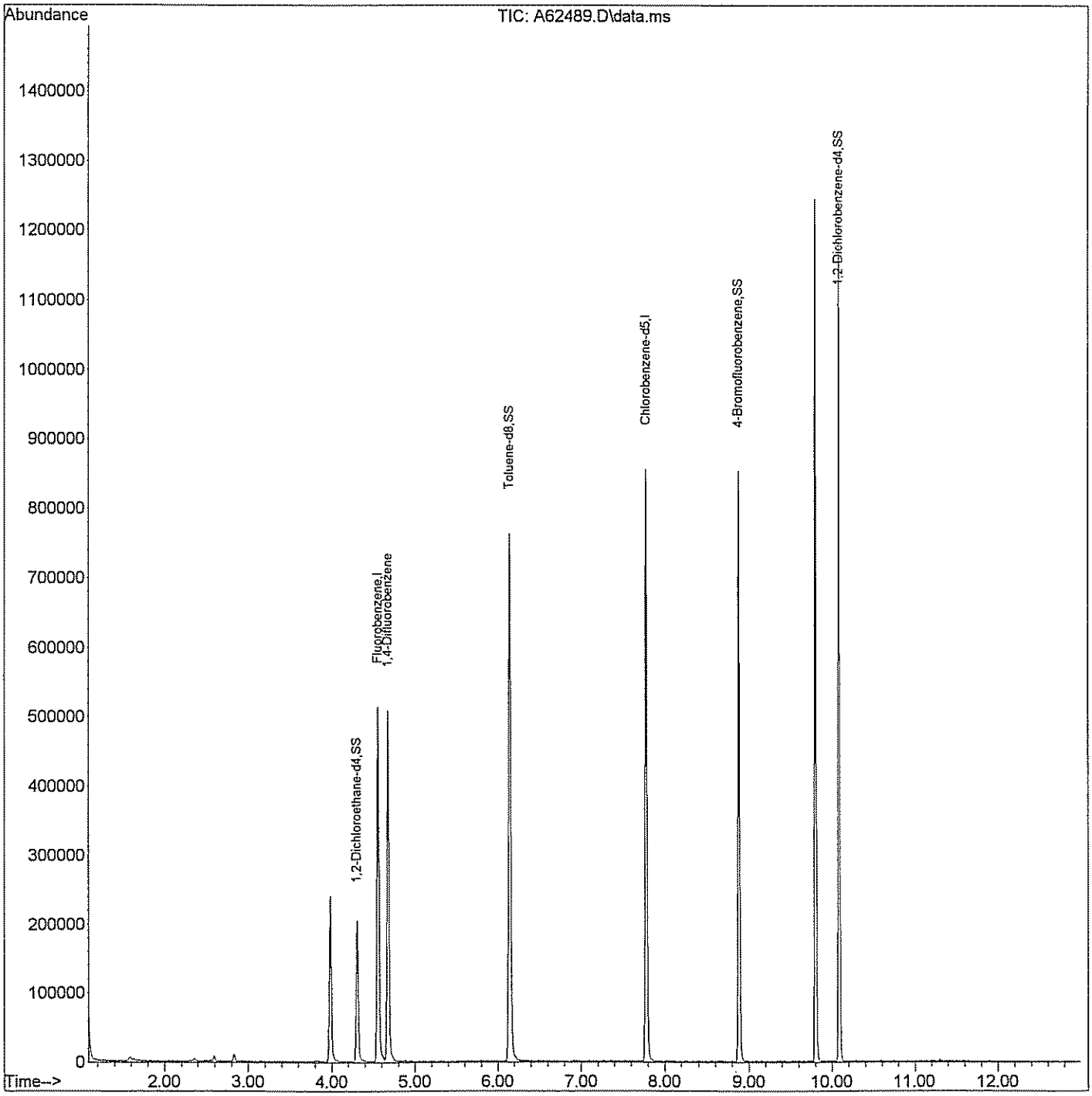
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	401570	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	359224	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	419603	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	112161	52.57	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 105.14%			
54) Toluene-d8	6.142	98	477719	57.39	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 114.78%			
76) 4-Bromofluorobenzene	8.881	95	187373	47.37	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.74%			
92) 1,2-Dichlorobenzene-d4	10.085	152	209160	53.92	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.84%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62489.D
Acq On : 24 Mar 2009 16:56
Operator : SM
Sample : 903069-011
Misc : OUI-TB03-0309,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 26 15:05:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-012-013-1/3
Sample Volume :	5	Lab File ID :	A62491.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-012-013-1/3
Sample Volume :	5	Lab File ID :	A62491.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-TB04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-012-013-1/3
Sample Volume :	5	Lab File ID :	A62491.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62491.D
Acq On : 24 Mar 2009 17:36
Operator : SM
Sample : 903069-012
Misc : OUI-TB04-0309,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 26 15:08:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

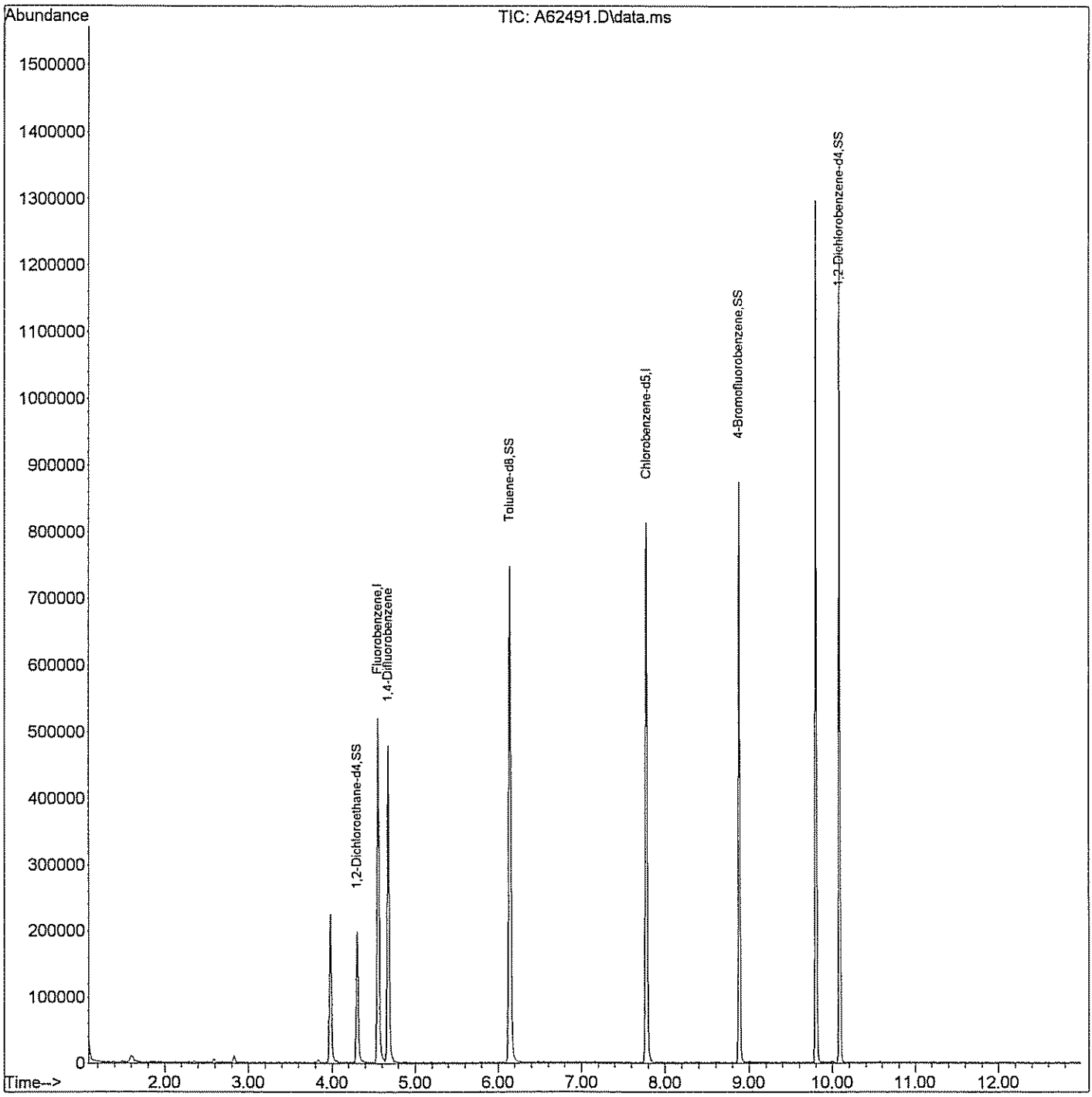
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.554	96	390295	50.00	ug/L	0.00
41) 1,4-Difluorobenzene		4.677	114	340297	50.00	ug/L	# 0.00
59) Chlorobenzene-d5		7.779	117	399835	50.00	ug/L	0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4		4.302	65	102909	49.63	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery =	99.26%		
54) Toluene-d8		6.142	98	469292	59.51	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery =	119.02%		
76) 4-Bromofluorobenzene		8.881	95	186408	49.46	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery =	98.92%		
92) 1,2-Dichlorobenzene-d4		10.085	152	212777	57.56	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery =	115.12%		
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62491.D
Acq On : 24 Mar 2009 17:36
Operator : SM
Sample : 903069-012
Misc : OUI-TB04-0309,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 26 15:08:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 08:06:42 2009
Response Via : Initial Calibration

Calibration Files
1 =A62207.D 5 =A62209.D 20 =A62211.D 50 =A62213.D 100 =A62215.D
200 =A62219.D

		Compound	1	5	20	50	100	200	Avg	%R SD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluo...	0.067	0.085	0.103	0.098		0.090	0.089	15.40
3)		Chloromethane	0.188	0.181	0.173	0.145	0.159	0.199	0.174	11.27
4)		Vinyl chloride	0.220	0.190	0.192	0.211	0.214	0.214	0.207	6.19
5)		Bromomethane	0.218	0.069	0.099	0.078	0.114		0.115	~~51.80~~ r^2=0.9[illegible]
6)		Chloroethane		0.144	0.142	0.142	0.141	0.157	0.145	4.69
7)		Trichlorofluor...	0.154	0.245	0.282	0.290	0.307		0.256	~~23.94~~ r^2=0.999
8)		Ethyl Ether	0.163	0.157	0.165	0.189	0.188	0.206	0.178	10.84
9)		Freon 113	0.153	0.135	0.174	0.165		0.165	0.158	9.58
10)		Acrolein		0.037	0.031	0.036	0.035	0.040	0.036	9.22
11)		Tert-Butyl alc...	0.016	0.021	0.018	0.026	0.021		0.020	18.36
12)		1,1-Dichloroet...	0.177	0.162	0.167	0.188	0.193	0.202	0.182	8.55
13)		Iodomethane	0.457	0.111	0.200	0.091	0.247	0.161	0.211	63.20
14)		Acetonitrile	0.079	0.075	0.093	0.124	0.139	0.138	0.108	~~26.99~~ r^2=0.9[illegible]
15)		Methylene chlo...	0.375	0.222	0.213	0.224	0.235	0.243	0.252	~~24.26~~ r^2=0.999
16)		Trans-1,2-dich...	0.209	0.186	0.197	0.221	0.230		0.209	8.57
17)		Isopropyl ether	0.794	0.717	0.779	0.874	0.894		0.812	8.93
18)		1,1-Dichloroet...	0.325	0.334	0.368	0.411	0.431		0.374	12.44
19)		Acetone	0.151	0.086	0.070	0.091	0.084	0.086	0.095	~~30.23~~ r^2=0.99[illegible]
20)		Methyl Acetate	0.225	0.217	0.185	0.256		0.048	0.186	~~43.60~~ r^2=0.973
21)		MTBE	0.473	0.510	0.527	0.610	0.604		0.545	11.02
22)		Carbon disulfide	1.024	0.568	0.589	0.610	0.643	0.638	0.679	~~25.30~~ r^2=0.999
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile		0.059	0.058	0.067	0.062	0.071	0.063	8.81
25)		Chloroprene	0.352	0.318	0.337	0.354	0.398	0.383	0.357	8.23
26)	T	n-Heptane	0.229	0.156	0.188	0.173	0.184	0.166	0.183	14.14
27)		2,2-Dichloropr...	0.284	0.268		0.334	0.340	0.338	0.313	10.86
28)		Cis-1,2-dichlo...	0.280	0.214		0.253	0.263	0.256	0.253	9.47
29)		1,2-dichloroet...	0.366		0.223	0.242	0.248	0.260	0.268	21.04
30)		Propionitrile	0.028	0.029	0.028	0.035	0.031	0.036	0.031	11.14
31)		Bromochloromet...	0.088	0.091	0.107	0.119	0.122	0.129	0.109	15.51
32)		Tetrahydrofuran	0.047	0.049	0.049	0.055	0.049	0.059	0.051	9.52
33)		Chloroform	0.515	0.347	0.353	0.399	0.446	0.498	0.426	16.82
34)		Cyclohexane	0.560	0.302	0.371	0.358	0.395	0.363	0.392	~~22.47~~ r^2=0.998
35)		1,1,1-Trichlor...	0.289	0.274	0.307	0.333	0.343	0.363	0.318	10.68
36)		Carbon tetrach...	0.218	0.240	0.265	0.290	0.310	0.313	0.272	14.18
37)		Methacrylonitrile	0.141		0.144	0.175	0.176	0.213	0.170	17.12
38)		Methylcyclohexane	0.360	0.292	0.354	0.333	0.373	0.318	0.338	8.82
39)		Isobutyl Alcohol	0.011	0.014	0.017	0.016		0.015	0.015	15.42
40)	SS	1,2-Dichloroet...	0.258	0.262	0.263	0.265	0.265	0.282	0.266	3.13
41)		1,4-Difluorobenzene	ISTD							
42)		2-Butanone	0.150	0.152	0.146	0.185	0.166	0.178	0.163	9.84

Response Factor Report Instrument A

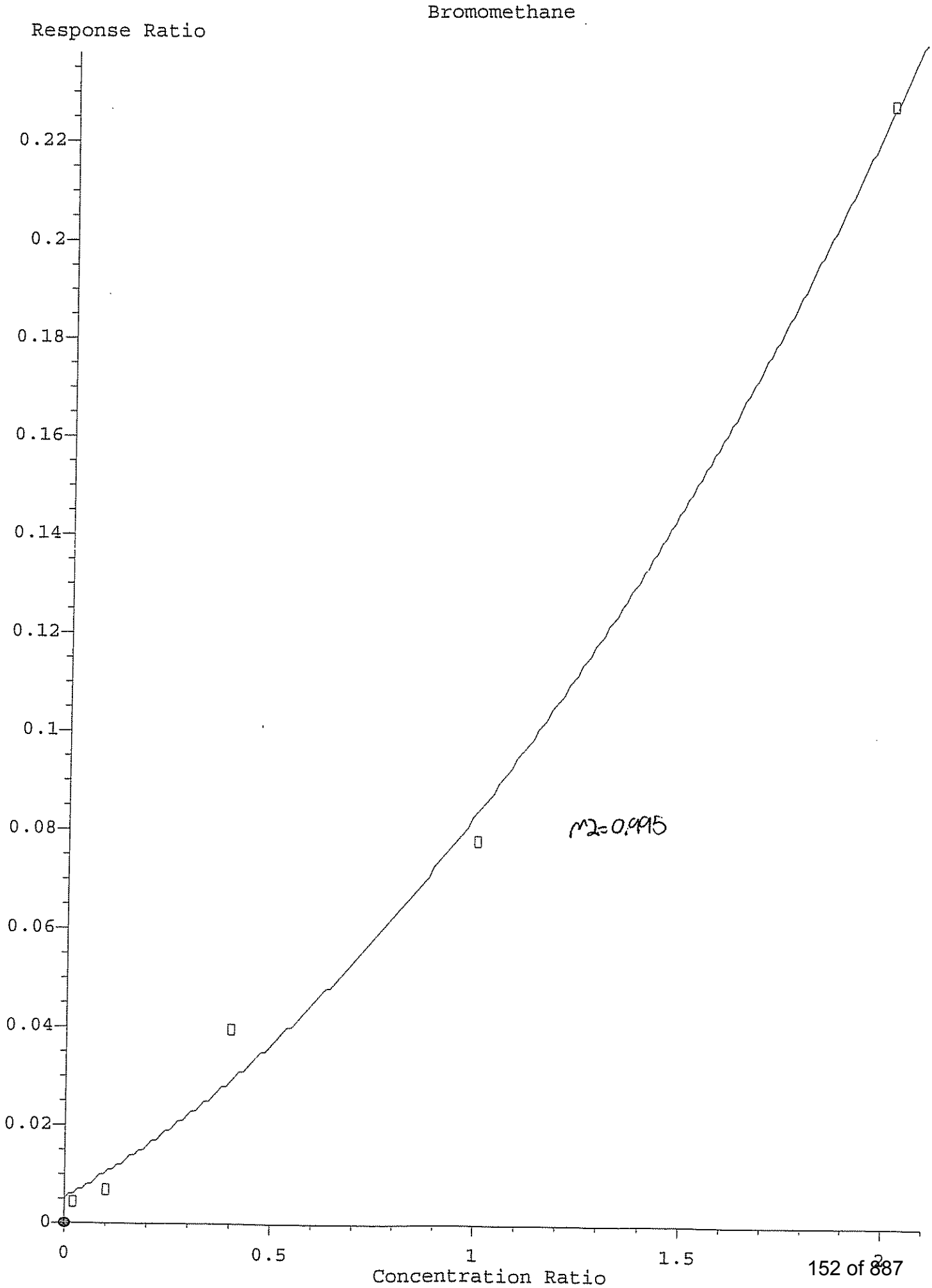
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

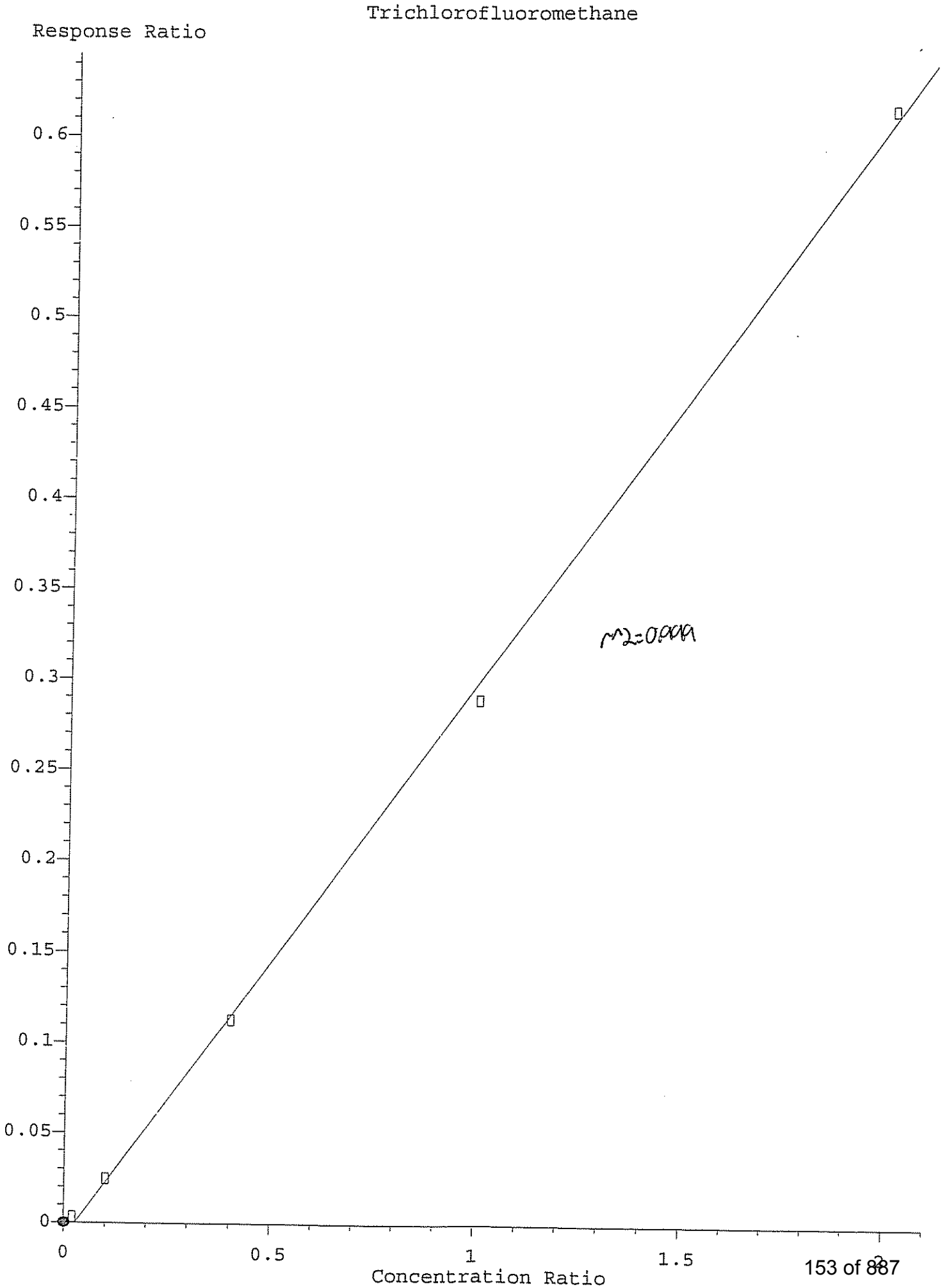
43)		1,1-Dichloropr...	0.270	0.305	0.331	0.370	0.377	0.381	0.339	13.34
44)		Vinyl Acetate	0.369	0.357		0.401	0.394	0.386	0.381	4.81
45)		Benzene	0.924	0.932	1.027	1.118	1.156	1.192	1.058	10.86
46)		1,2-Dichloroet...	0.277	0.295	0.324	0.359	0.360	0.376	0.332	12.02
47)		Trichloroethene	0.269	0.243	0.263	0.278	0.289	0.289	0.272	6.46
48)		1,2-Dichloropr...	0.226	0.230	0.263	0.298	0.305	0.305	0.271	13.65
49)		Methyl methacr...	0.215	0.205	0.171	0.201	0.185	0.202	0.196	8.01
50)		Dibromomethane	0.171	0.151	0.147	0.176	0.172	0.184	0.167	8.78
51)		Bromodichlorom...	0.338	0.315	0.334	0.376	0.376	0.385	0.354	8.07
52)		2-Chloroethylv...	0.027	0.143	0.149	0.165	0.057	0.106	0.108	51.45
53)		Cis-1,3-dichlo...	0.340	0.361		0.469	0.471	0.491	0.427	16.46
54)	SS	Toluene-d8	1.125	1.133	1.141	1.158	1.177	1.218	1.159	2.99
55)		Toluene	0.589	0.599	0.664	0.740	0.763	0.807	0.694	13.02
56)		Trans-1,3-dich...	0.273	0.355		0.433	0.417	0.455	0.387	18.95
57)		Ethyl methacry...	0.347	0.304	0.324	0.365	0.358	0.385	0.347	8.47
58)		1,1,2-Trichlor...	0.183	0.186		0.220	0.217	0.234	0.208	10.71
59)	I	Chlorobenzene-d5	----------	ISTD	----------					
60)		4-Methyl-2-pen...	0.272	0.284	0.284	0.321	0.289	0.300	0.292	5.85
61)		2-Hexanone	0.175	0.219	0.196	0.238	0.214	0.220	0.210	10.29
62)		Tetrachloroethene	0.228	0.256	0.285	0.305	0.324	0.332	0.288	13.99
63)		1,3-Dichloropr...	0.361	0.399	0.395	0.451	0.441	0.448	0.416	8.74
64)		Dibromochlorom...	0.245	0.291	0.291	0.322	0.324	0.334	0.301	10.93
65)		1,2-Dibromoethane	0.246	0.242	0.248	0.270	0.266	0.271	0.257	5.13
66)		1-Chlorohexane	0.470	0.400	0.409	0.437	0.441	0.437	0.432	5.79
67)		Chlorobenzene	0.748	0.753	0.821	0.906	0.935	0.925	0.848	10.10
68)		1,1,1,2-Tetrac...	0.248	0.259	0.292	0.328	0.342	0.354	0.304	14.65
69)		Ethylbenzene	1.318	1.300	1.394	1.507	1.582	1.607	1.451	9.15
70)		m,p-Xylene	0.510	0.513	0.560	0.618	0.648		0.570	10.86
71)		o-Xylene	0.551	0.505	0.566	0.601	0.624	0.620	0.578	7.95
72)		Xylene (Total)	0.524	0.511	0.564	0.613	0.641	0.662	0.586	10.68
73)		Styrene	0.827	0.857	0.930	1.024	1.062	1.060	0.960	10.80
74)		Bromoform	0.149	0.175	0.176	0.212	0.200	0.209	0.187	13.15
75)		Isopropylbenzene	1.052	1.108	1.196	1.299	1.367	1.346	1.228	10.60
76)	SS	4-Bromofluorob...	0.468	0.466	0.474	0.477	0.477	0.465	0.471	1.16
77)		Bromobenzene	0.300	0.296	0.326	0.356	0.370	0.370	0.336	10.07
78)		1,1,2,2-Tetrac...	0.317	0.314	0.308	0.356	0.339	0.347	0.330	6.00
79)		1,2,3-Trichlor...	0.091	0.103	0.091	0.105	0.098	0.101	0.098	6.04
80)		n-Propylbenzene	1.522	1.538	1.655	1.792	1.853	1.840	1.700	8.79
81)		Trans-1,4-dich...	0.066	0.099	0.064	0.109	0.074	0.088	0.083	~~21.93~~ M=0.987
82)		2-Chlorotoluene	0.338	0.323	0.352	0.384	0.388	0.378	0.361	7.43
83)		4-Chlorotoluene	0.354	0.335	0.356	0.391	0.407	0.403	0.374	7.96
84)		1,3,5-Trimethy...	1.021	1.048	1.163	1.281	1.369	1.359	1.207	12.65
85)		Tert-butylbenzene	0.855	0.919	1.011	1.122	1.196	1.189	1.049	13.66
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.051	1.091	1.184	1.318	1.418	1.460	1.254	13.63
88)		Sec-Butylbenzene	1.363	1.379	1.554	1.726	1.836	1.785	1.607	12.83
89)		1,3-Dichlorobe...	0.581	0.583	0.663	0.740	0.804	0.864	0.706	16.56
90)		4-Isopropyltol...	1.162	1.185	1.338	1.507	1.641		1.367	15.11
91)		1,4-Dichlorobe...	0.581	0.624	0.679	0.749	0.800	0.815	0.708	13.52
92)	SS	1,2-Dichlorobe...	0.439	0.440	0.457	0.465	0.487	0.486	0.462	4.56
93)		1,2-Dichlorobe...	0.614	0.556		0.688	0.756	0.756	0.674	13.10
94)		n-Butylbenzene	1.300	1.191	1.253	1.396	1.500	1.454	1.349	8.94
95)		1,2-Dibromo-3-...	0.051	0.056	0.051	0.062	0.057	0.063	0.057	9.21
96)		1,2,4-Trichlor...	0.405	0.335	0.363	0.417	0.452	0.481	0.409	13.24

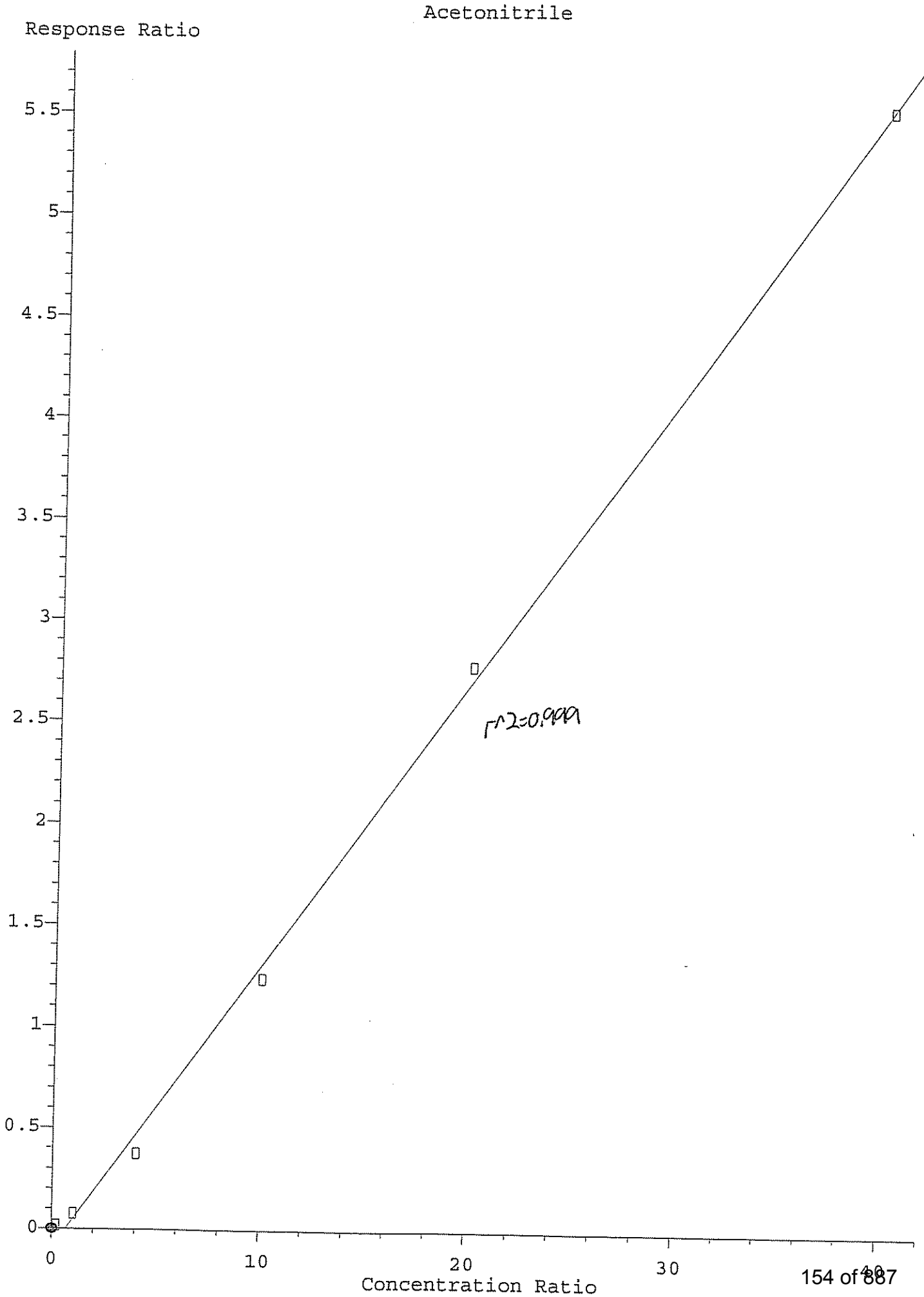
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

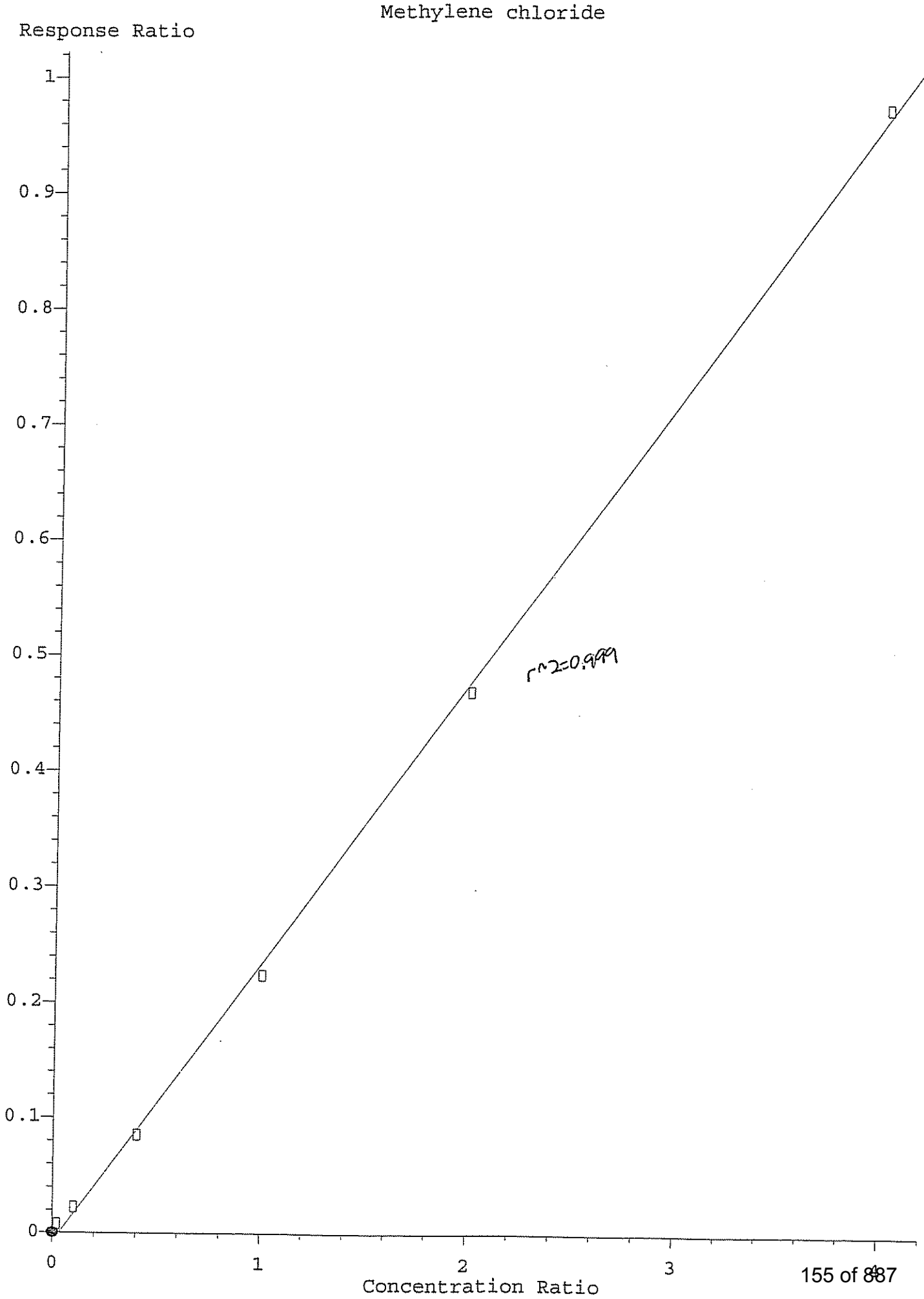
97)	Hexachlorobuta...	0.192	0.145	0.170	0.197	0.215	0.224	0.190	15.45
98)	Naphthalene	0.824	0.898	0.877	1.102	1.033	1.113	0.975	12.73
99)	1,2,3-Trichlor...	0.323	0.289	0.308	0.362	0.371	0.400	0.342	12.35

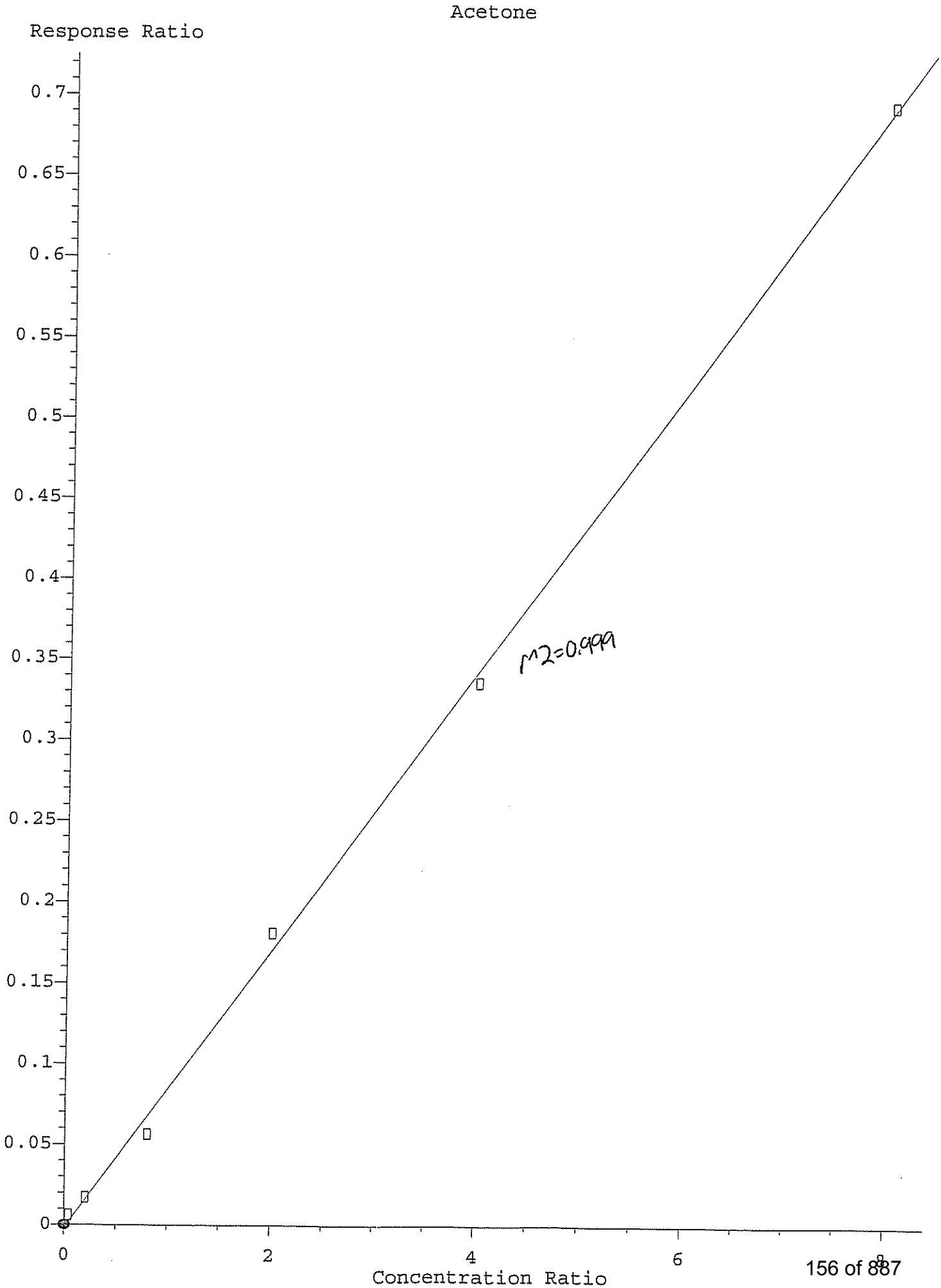
(#) = Out of Range

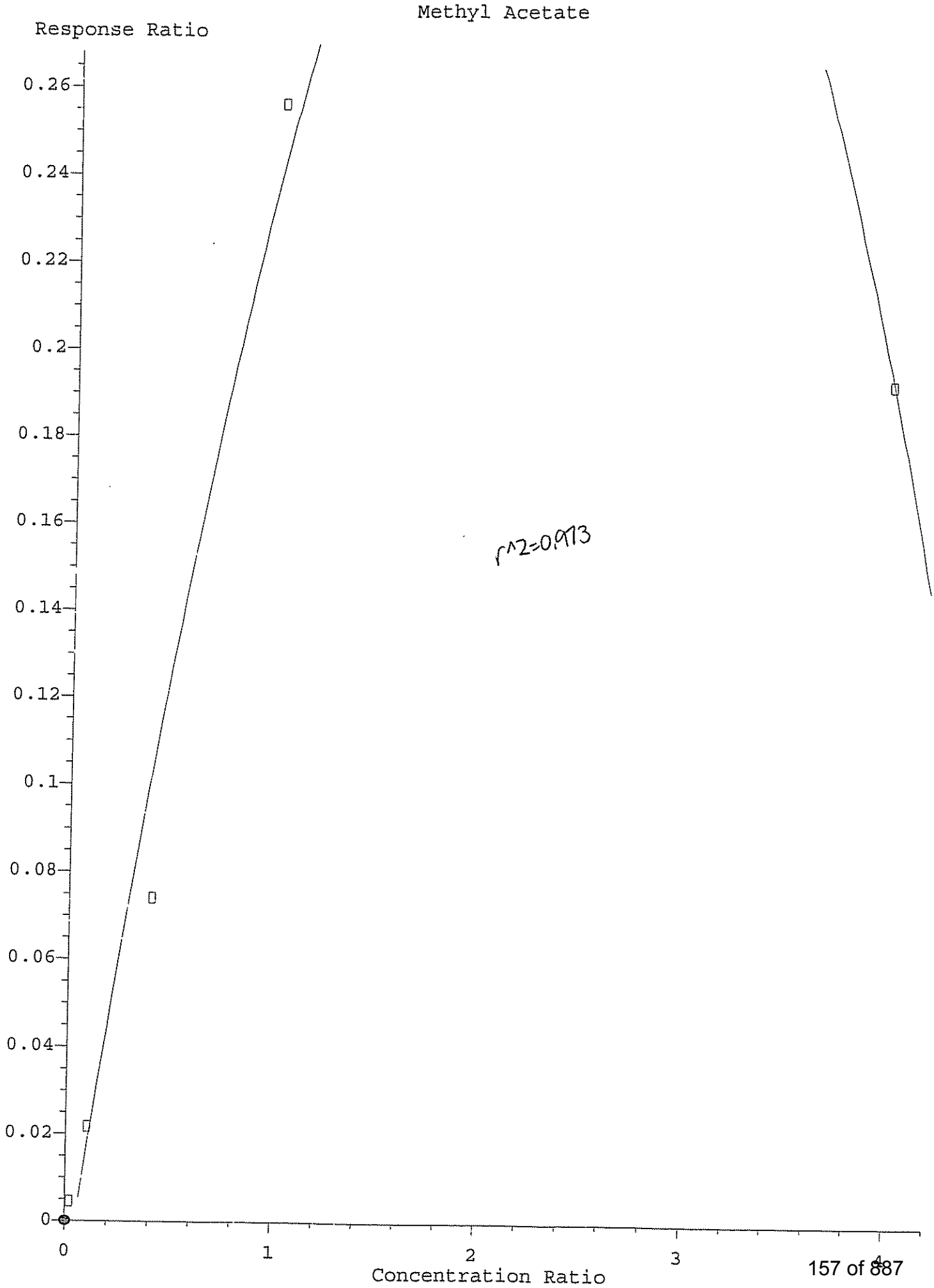

Bromomethane
Response Ratio
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.5
1
1.5
2
Concentration Ratio
r2=0.995

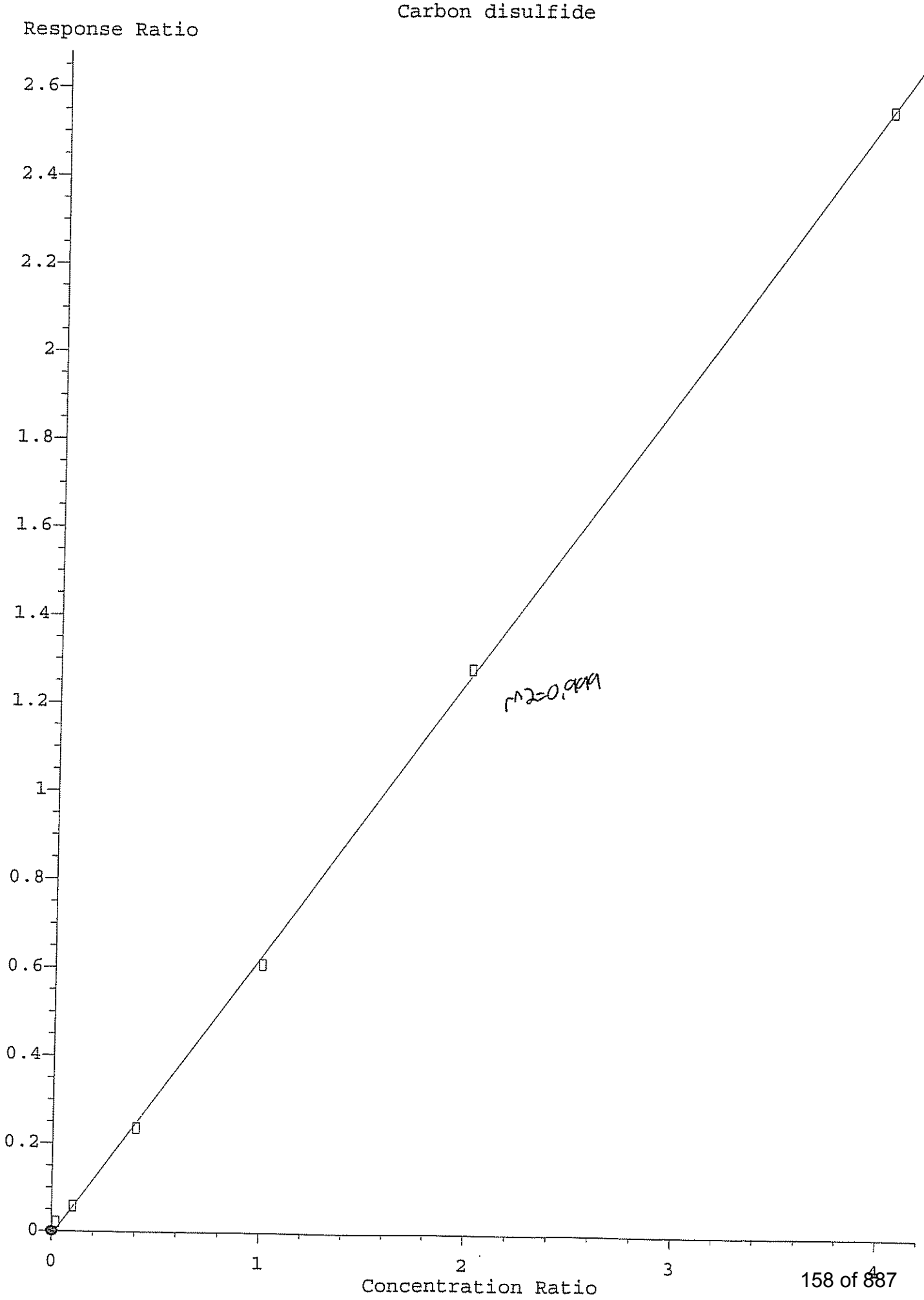

Trichlorofluoromethane
Response Ratio
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
0.5
1
1.5
2
Concentration Ratio
r^2=0.999

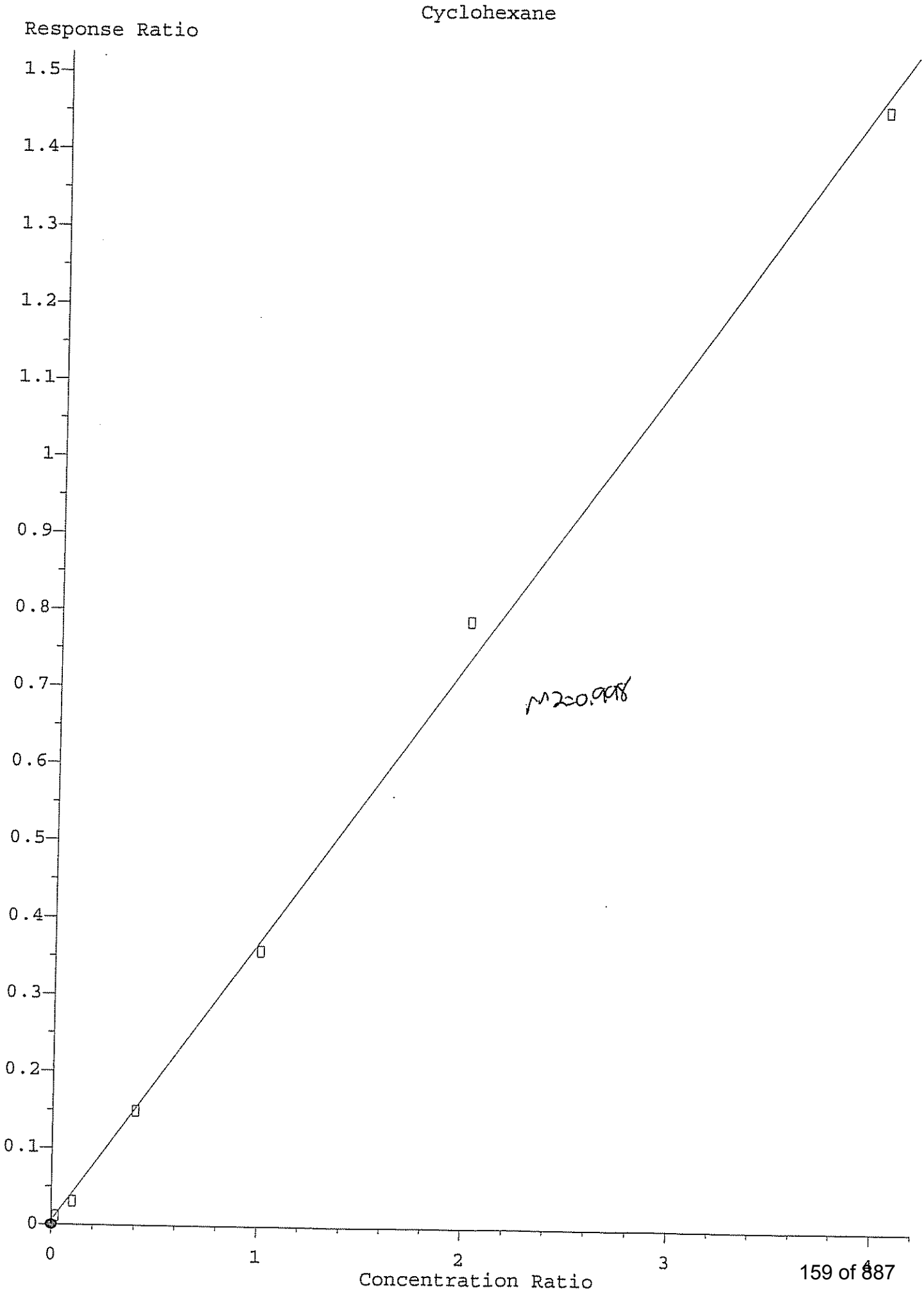

Acetonitrile
Response Ratio
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0
10
20
30
40
Concentration Ratio
r^2=0.999

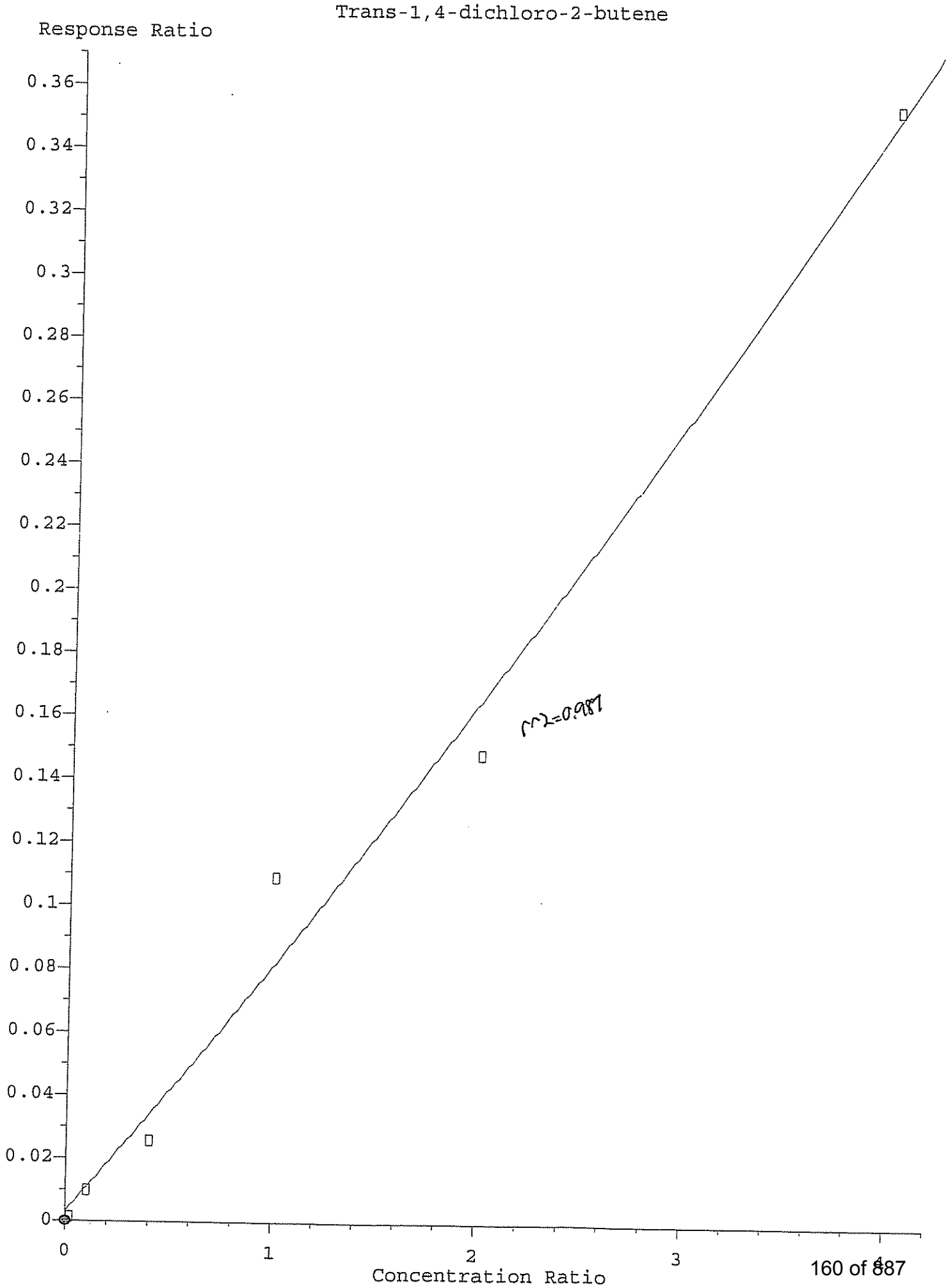

Methylene chloride
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
Concentration Ratio
r^2=0.999


Acetone
Response Ratio
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
r^2=0.999
0
2
4
6
8
Concentration Ratio


Methyl Acetate
Response Ratio
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
r^2=0.9913
0
1
2
3
4
Concentration Ratio


Carbon disulfide
Response Ratio
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
Concentration Ratio
r^2=0.999


Cyclohexane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.998


Trans-1,4-dichloro-2-butene
Response Ratio
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
1
2
3
4
Concentration Ratio
r^2=0.987

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	653851	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.682	114	545045	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	494605	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	168508	48.22	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.44%			
54) Toluene-d8	6.142	98	612948	48.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.50%			
76) 4-Bromofluorobenzene	8.881	95	231662	49.63	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.26%			
92) 1,2-Dichlorobenzene-d4	10.085	152	217113	47.01	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 94.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.188	85	879	0.72	ug/L	98
3) Chloromethane	1.317	50	2454m	1.09	ug/L	
4) Vinyl chloride	1.402	62	2881	1.08	ug/L #	44
5) Bromomethane	1.622	94	2845m	2.42	ug/L	
6) Chloroethane	1.285	64	313549	165.07	ug/L #	53
7) Trichlorofluoromethane	1.846	101	2014	0.55	ug/L	91
8) Ethyl Ether	2.050	59	2126	0.90	ug/L	96
9) Freon 113	2.184	101	2000	0.96	ug/L	92
10) Acrolein	2.189	56	2058	4.40	ug/L #	74
11) Tert-Butyl alcohol	2.670	59	4154	14.85	ug/L #	47
12) 1,1-Dichloroethene	2.210	96	2320	0.97	ug/L #	69
13) Iodomethane	2.339	142	5982	2.82	ug/L	99
14) Acetonitrile	2.483	40	10288	6.90	ug/L #	1
15) Methylene chloride	2.595	84	4904	1.65	ug/L	77
16) Trans-1,2-dichloroethene	2.756	96	2729	1.00	ug/L #	61
17) Isopropyl ether	3.093	45	10388	0.97	ug/L	96
18) 1,1-Dichloroethane	3.114	63	4250	0.84	ug/L	94
19) Acetone	2.296	43	3961	3.63	ug/L	95
20) Methyl Acetate	4.259	43	2948	1.24	ug/L #	100
21) MTBE	2.740	73	6186	0.84	ug/L	100
22) Carbon disulfide	2.360	76	13396	1.68	ug/L	100
24) Acrylonitrile	2.831	53	3734	4.51	ug/L	91
25) Chloroprene	3.146	53	4598	0.98	ug/L	92
26) n-Heptane	4.436	71	2999m	1.32	ug/L	
27) 2,2-Dichloropropane	3.548	77	3711	0.89	ug/L #	40
28) Cis-1,2-dichloroethene	3.580	96	3658	1.13	ug/L #	70

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	9570m	3.01 ug/L	
30) Propionitrile	3.735	54	3668	8.80 ug/L #	89
31) Bromochloromethane	3.783	128	1151	0.78 ug/L	98
32) Tetrahydrofuran	3.617	72	609	0.89 ug/L	85
33) Chloroform	3.837	83	6730	1.26 ug/L	95
34) Cyclohexane	3.938	56	7325	1.56 ug/L #	89
35) 1,1,1-Trichloroethane	3.960	97	3774	0.89 ug/L	87
36) Carbon tetrachloride	4.072	117	2845	0.77 ug/L	85
37) Methacrylonitrile	3.826	41	18476	8.37 ug/L #	37
38) Methylcyclohexane	4.997	83	4705	1.08 ug/L #	81
39) Isobutyl Alcohol	4.259	43	2948	14.35 ug/L	100
42) 2-Butanone	3.612	43	3280	1.82 ug/L	98
43) 1,1-Dichloropropene	4.099	75	2939	0.76 ug/L #	84
44) Vinyl Acetate	3.141	43	4019m	0.96 ug/L	
45) Benzene	4.286	78	10074	0.85 ug/L	100
46) 1,2-Dichloroethane	4.377	62	3017	0.81 ug/L #	80
47) Trichloroethene	4.885	95	2932	0.99 ug/L	86
48) 1,2-Dichloropropane	5.169	63	2461	0.81 ug/L	97
49) Methyl methacrylate	5.270	69	2343	1.12 ug/L	80
50) Dibromomethane	5.281	93	1866	1.03 ug/L	92
51) Bromodichloromethane	5.431	83	3684	0.95 ug/L #	99
52) 2-Chloroethylvinyl ether	5.779	63	1158	0.86 ug/L #	80
53) Cis-1,3-dichloropropene	5.918	75	3707	0.76 ug/L	93
55) Toluene	6.217	92	6417	0.82 ug/L	97
56) Trans-1,3-dichloropropene	6.570	75	2980	0.66 ug/L #	89
57) Ethyl methacrylate	6.618	69	3778	1.00 ug/L	96
58) 1,1,2-Trichloroethane	6.774	83	1999	0.86 ug/L	93
60) 4-Methyl-2-pentanone	6.099	43	5390	1.84 ug/L #	85
61) 2-Hexanone	7.068	43	3471	1.61 ug/L	98
62) Tetrachloroethene	6.790	166	2253	0.76 ug/L	97
63) 1,3-Dichloropropane	6.977	76	3571	0.85 ug/L	97
64) Dibromochloromethane	7.185	129	2423	0.78 ug/L	88
65) 1,2-Dibromoethane	7.319	107	2434	0.95 ug/L	89
66) 1-Chlorohexane	7.790	91	4651	1.11 ug/L #	30
67) Chlorobenzene	7.811	112	7395	0.86 ug/L	93
68) 1,1,1,2-Tetrachloroethane	7.908	131	2449	0.79 ug/L #	18
69) Ethylbenzene	7.897	91	13042	0.89 ug/L	96
70) m,p-Xylene	8.020	106	10091	1.74 ug/L	92
71) o-Xylene	8.395	106	5451	0.95 ug/L	83
72) Xylene (Total)	8.020	106	15541m	2.63 ug/L	
73) Styrene	8.421	104	8177	0.84 ug/L	96
74) Bromoform	8.598	173	1471	0.77 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

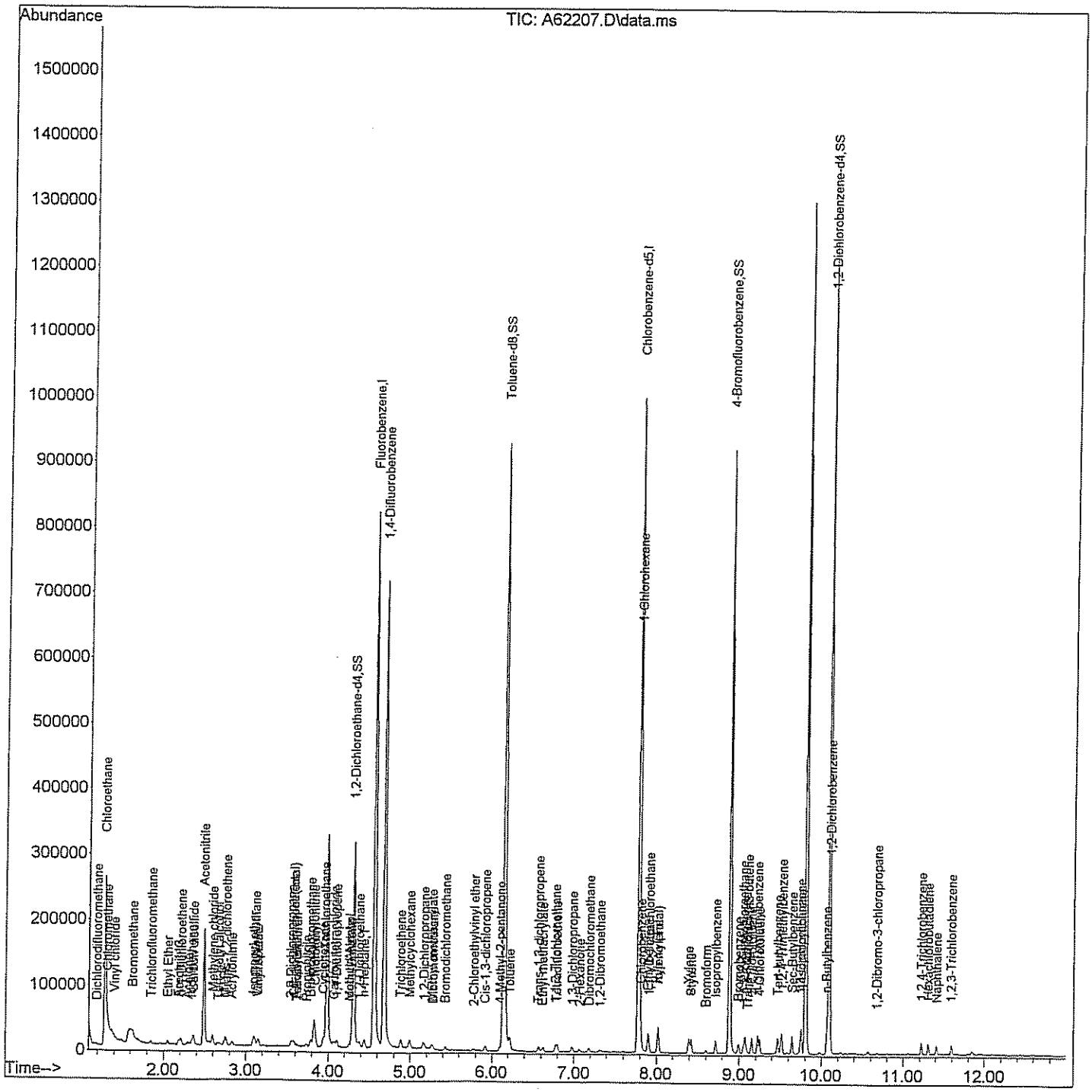
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.716	105	10411	0.83 ug/L	99
77) Bromobenzene	8.994	156	2968	0.87 ug/L	95
78) 1,1,2,2-Tetrachloroethane	9.047	83	3138m	0.95 ug/L	
79) 1,2,3-Trichloropropane	9.085	110	898	0.91 ug/L #	82
80) n-Propylbenzene	9.069	91	15058	0.88 ug/L	100
81) Trans-1,4-dichloro-2-b...	9.106	53	656	0.72 ug/L #	23
82) 2-Chlorotoluene	9.149	126	3342	0.93 ug/L	87
83) 4-Chlorotoluene	9.245	126	3499	0.93 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	10102	0.82 ug/L	92
85) Tert-butylbenzene	9.470	119	8456	0.79 ug/L	94
87) 1,2,4-Trimethylbenzene	9.518	105	10397	0.81 ug/L	92
88) Sec-Butylbenzene	9.641	105	13481	0.82 ug/L	100
89) 1,3-Dichlorobenzene	9.743	146	5746	0.80 ug/L	94
90) 4-Isopropyltoluene	9.759	119	11496	0.82 ug/L	95
91) 1,4-Dichlorobenzene	9.743	146	5746	0.79 ug/L	95
93) 1,2-Dichlorobenzene	10.101	146	6074m	0.89 ug/L	
94) n-Butylbenzene	10.058	91	12855	0.96 ug/L	100
95) 1,2-Dibromo-3-chloropr...	10.679	75	501	0.88 ug/L	95
96) 1,2,4-Trichlorobenzene	11.225	180	4004	0.99 ug/L	98
97) Hexachlorobutadiene	11.305	225	1901	1.01 ug/L	98
98) Naphthalene	11.412	128	8153	0.82 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	3193	0.93 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

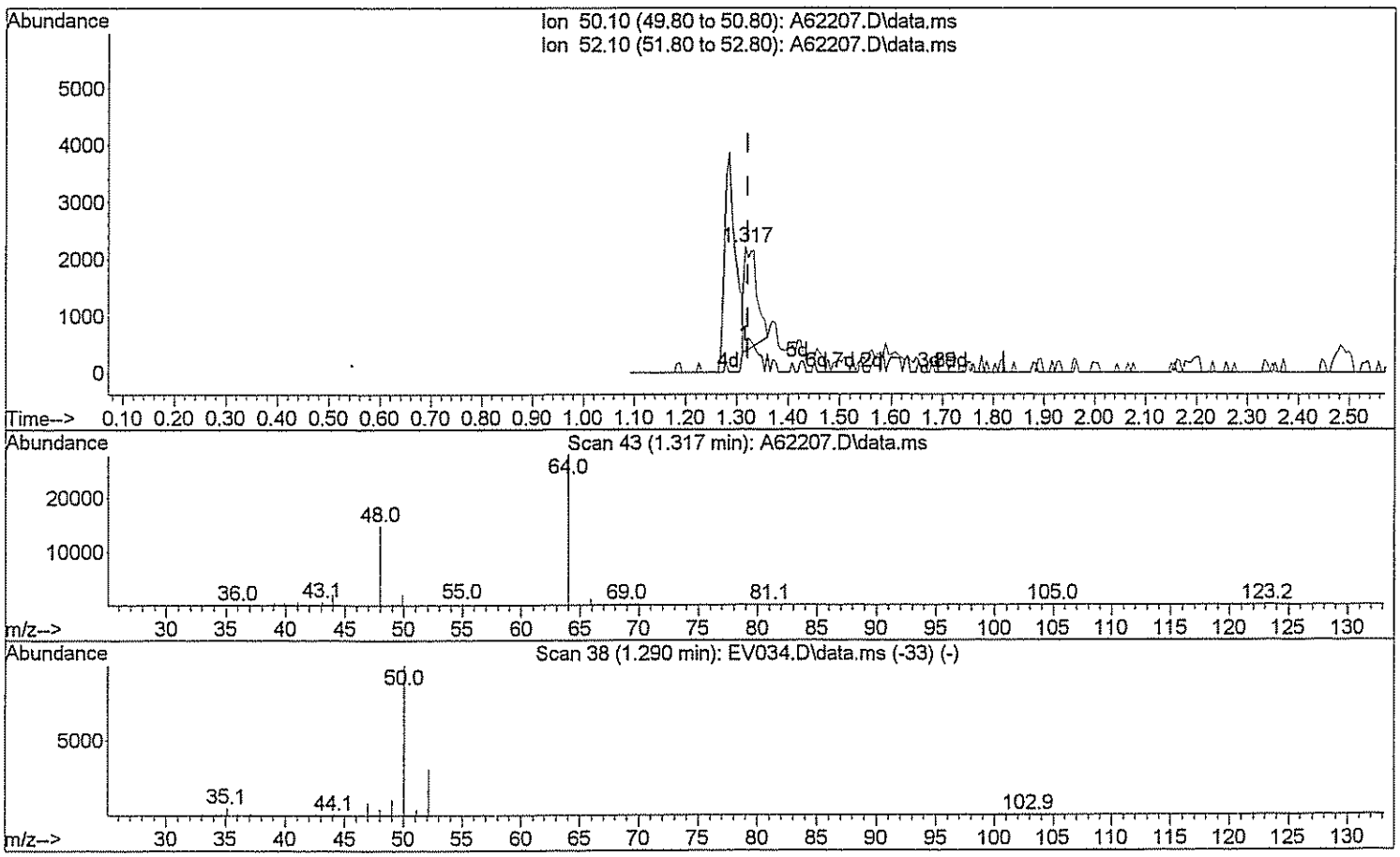


A8260_031009.M Tue Mar 17 07:52:19 2009 Page: 4

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(3) Chloromethane

1.317min (-0.005) 1.32 ug/L

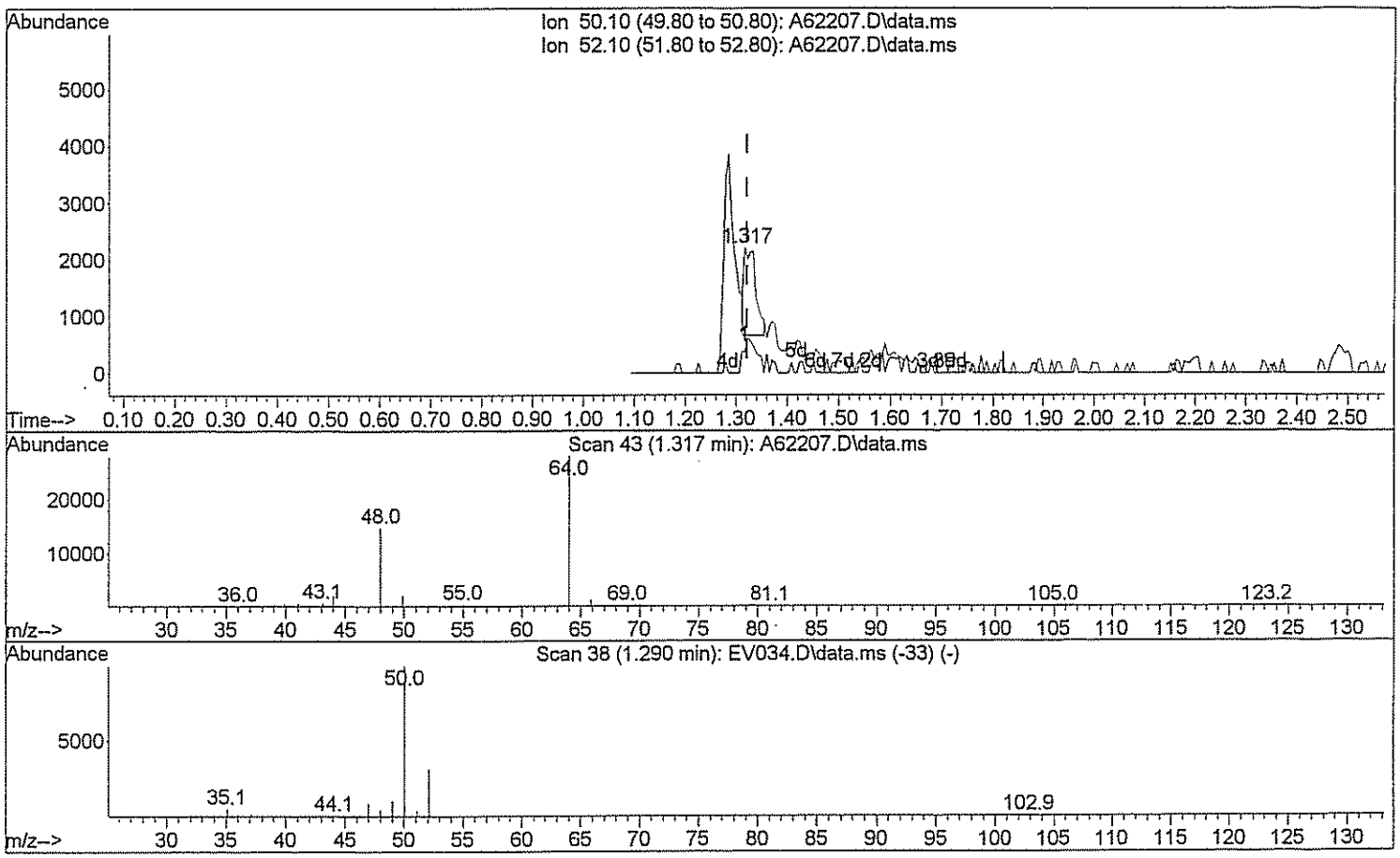
response 2970

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	35.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(3) Chloromethane

1.317min (-0.005) 1.09 ug/L m

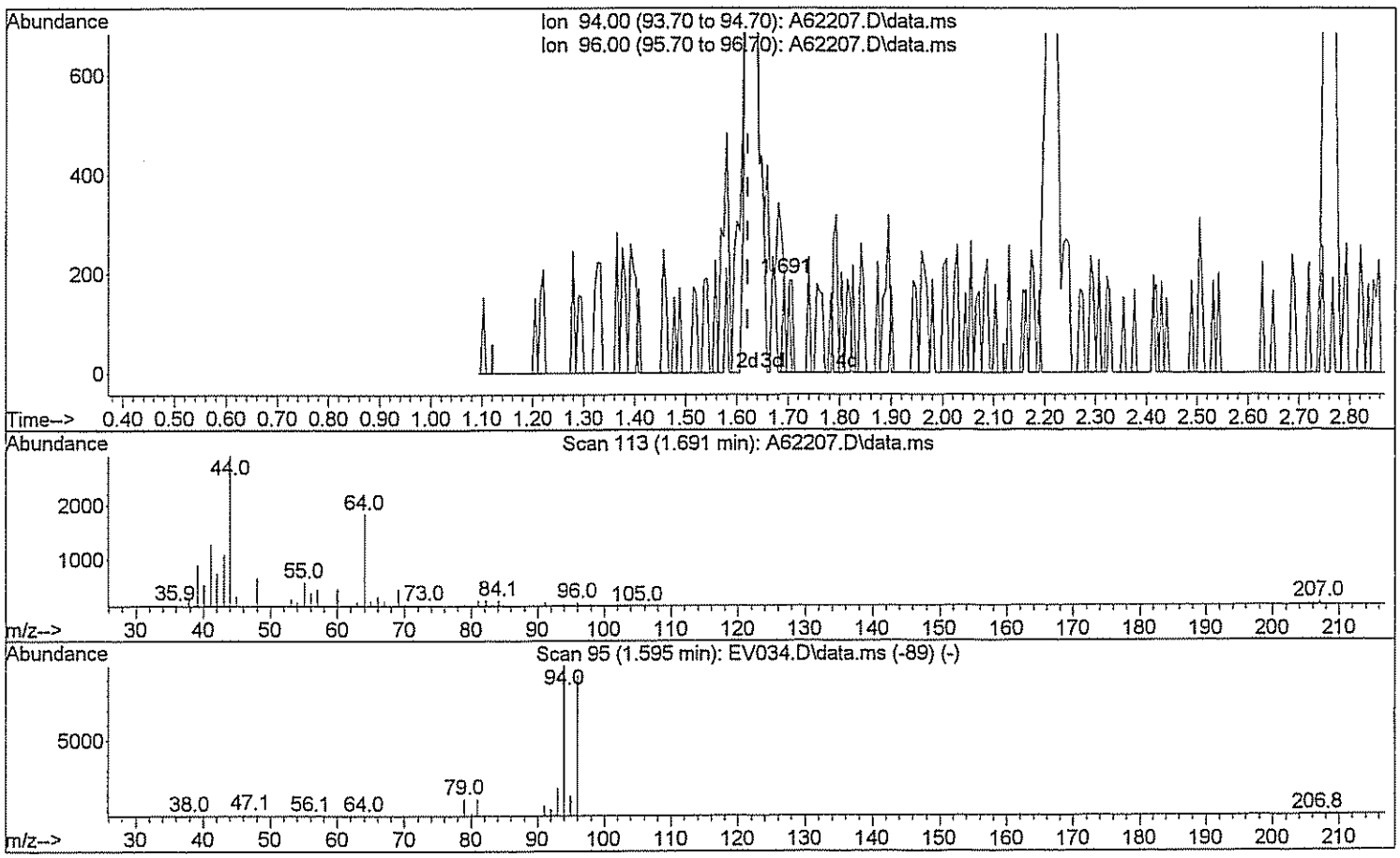
response 2454

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	43.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(5) Bromomethane

1.691min (+0.070) 0.10 ug/L

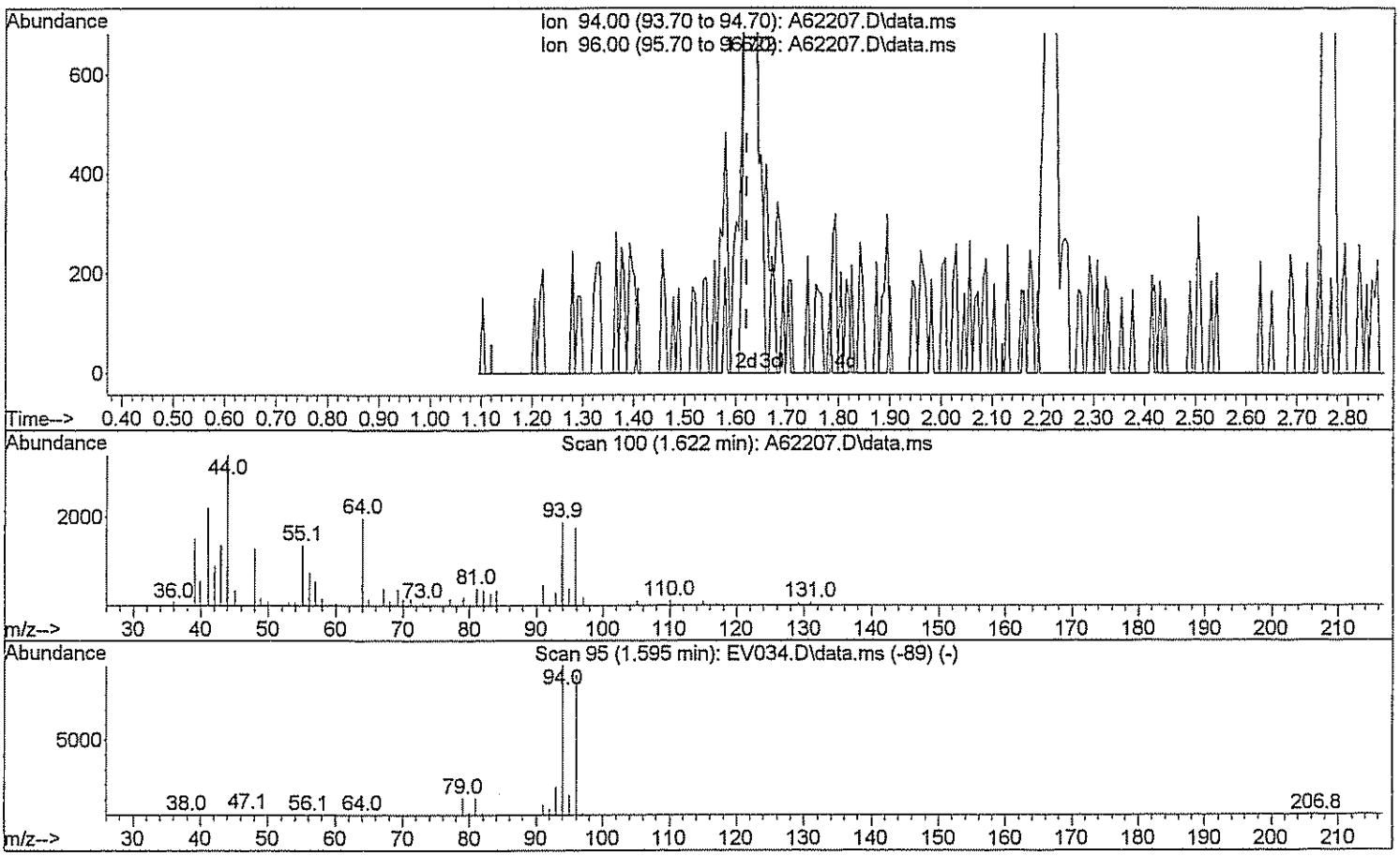
response 120

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	99.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(5) Bromomethane

1.622min (+0.000) 2.42 ug/L m DW 3/17/09

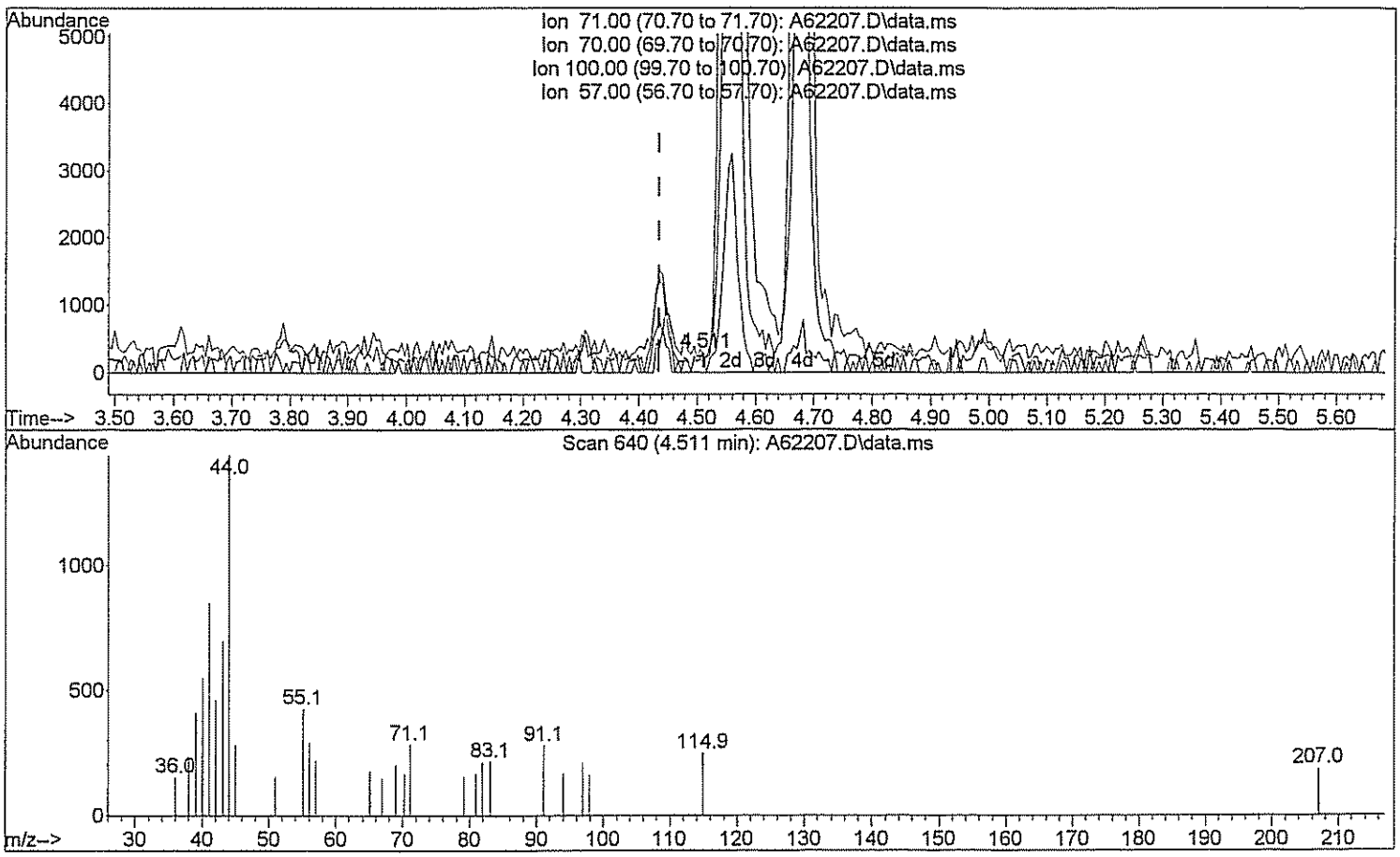
response 2845

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	4.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(26) n-Heptane (T)

4.511min (+0.075) 0.13 ug/L

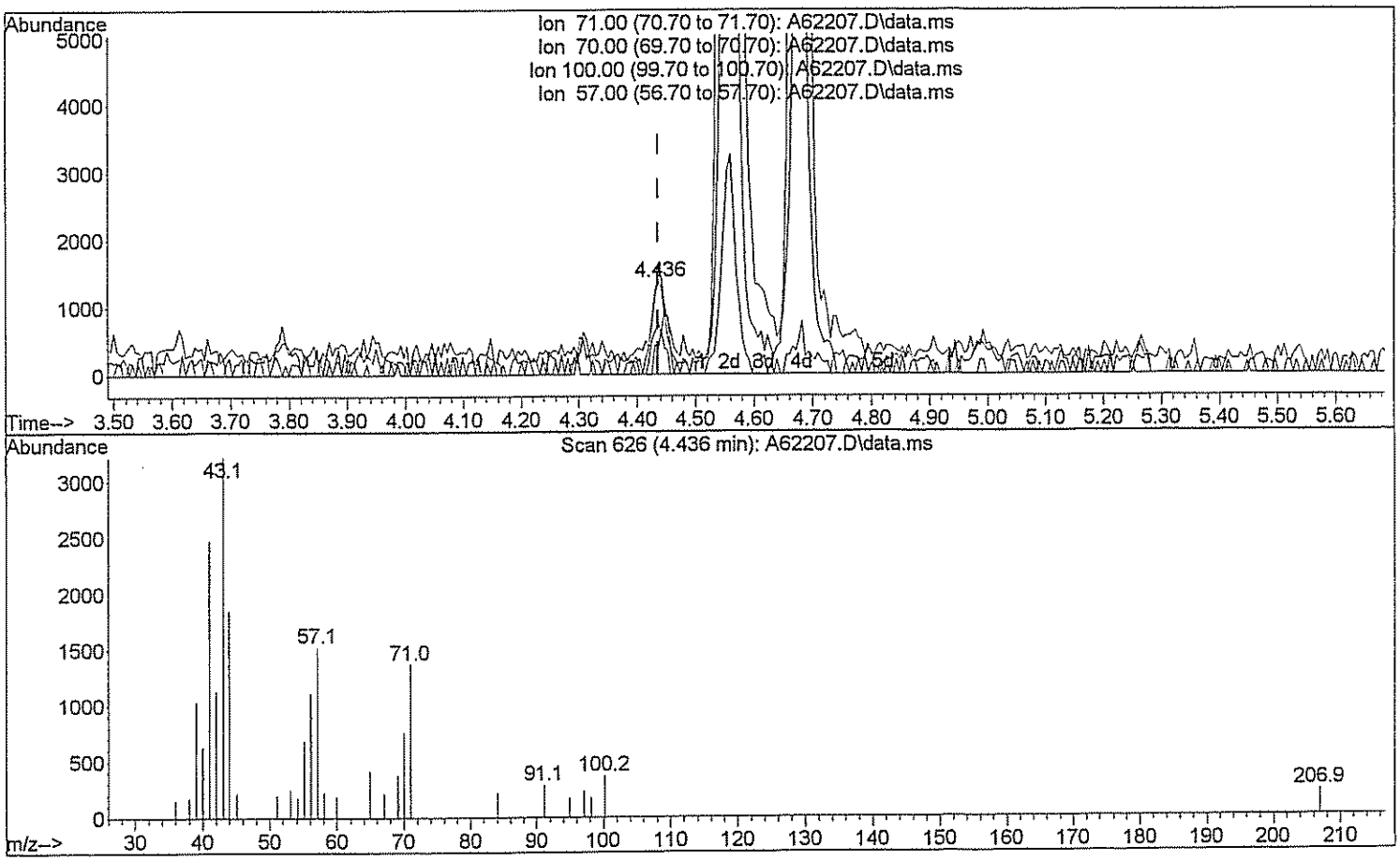
response 287

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	62.00	0.00#
57.00	40.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 1.32 ug/L m SW 3/17/09

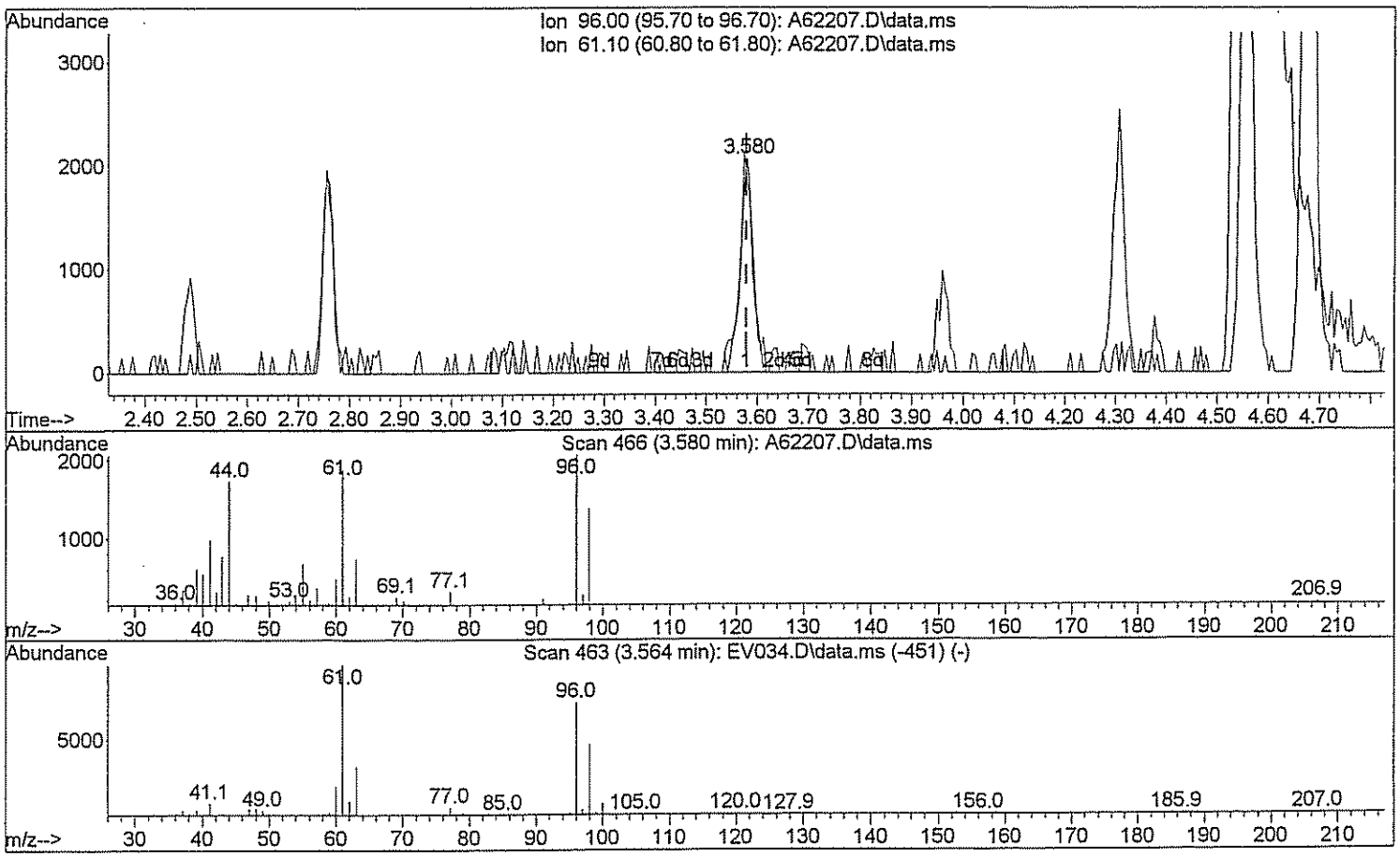
response 2999

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	62.00	0.00#
57.00	40.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.000) 1.15 ug/L

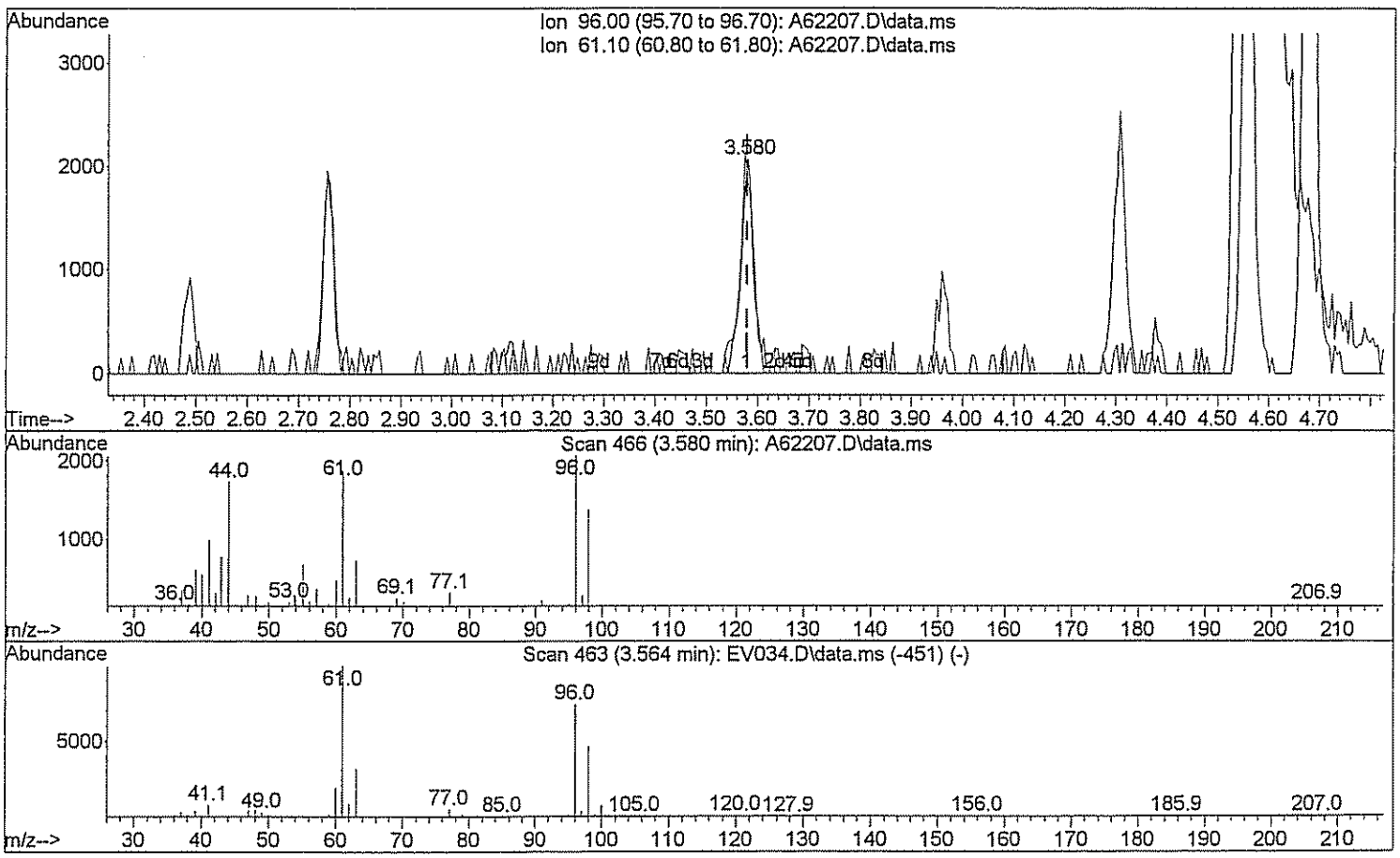
response 3658

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	106.40#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.000) 3.01 ug/L m

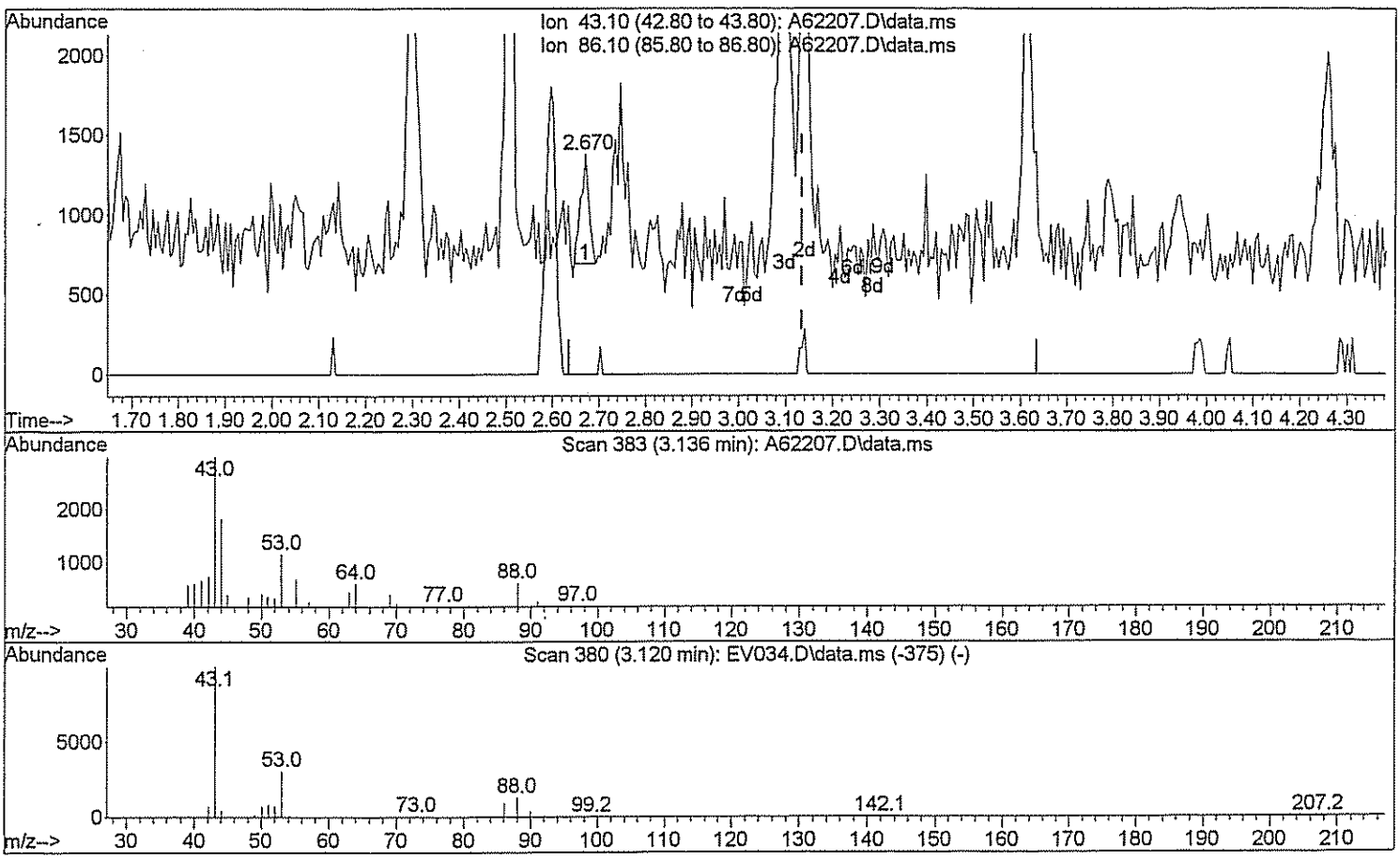
response 9570

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	40.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(44) Vinyl Acetate

2.670min (-0.465) 0.20 ug/L

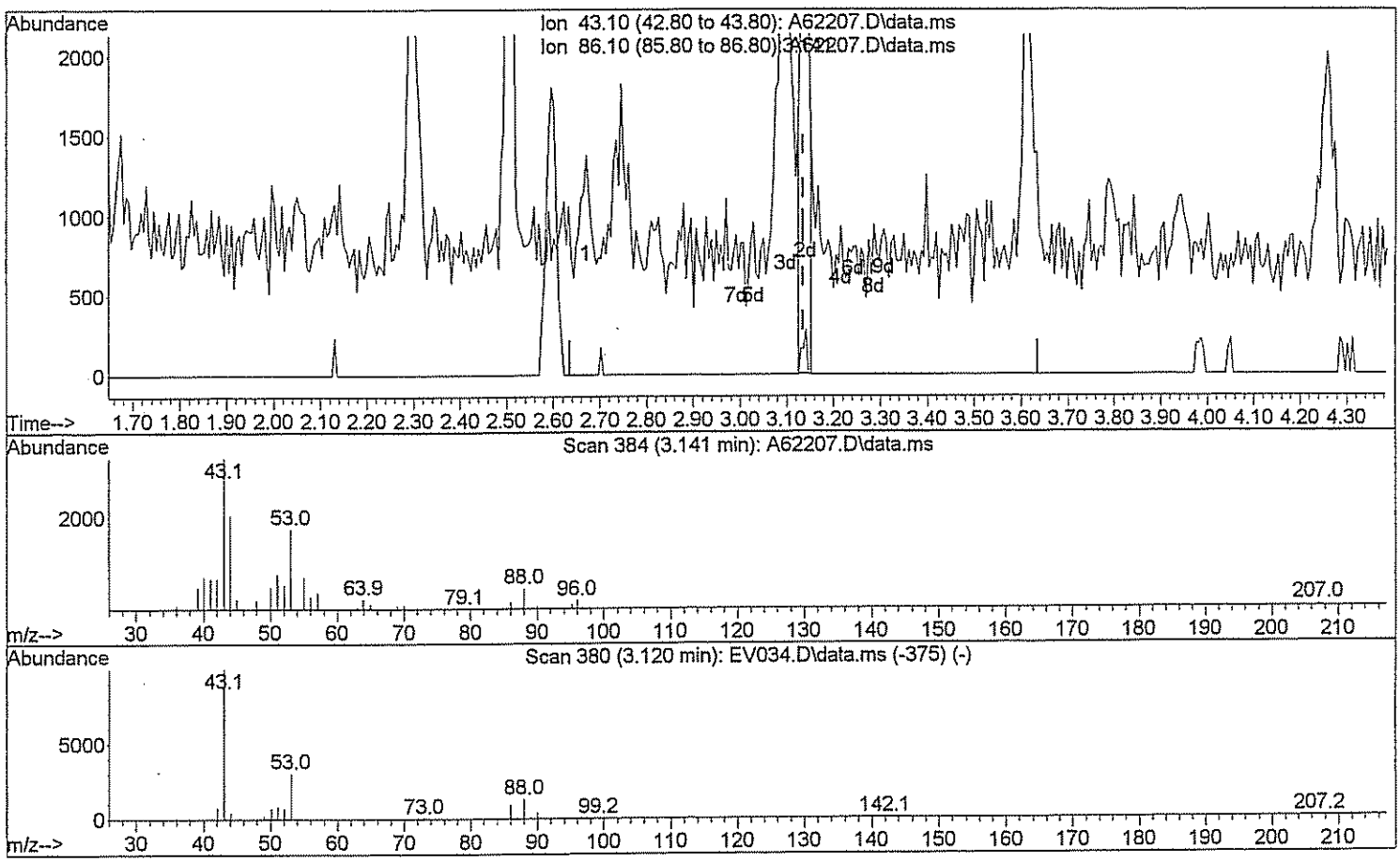
response 826

Ion	Exp%	Act%
43.10	100	100
86.10	8.20	6.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(44) Vinyl Acetate

3.141min (+0.005) 0.96 ug/L m DW 3/17/09

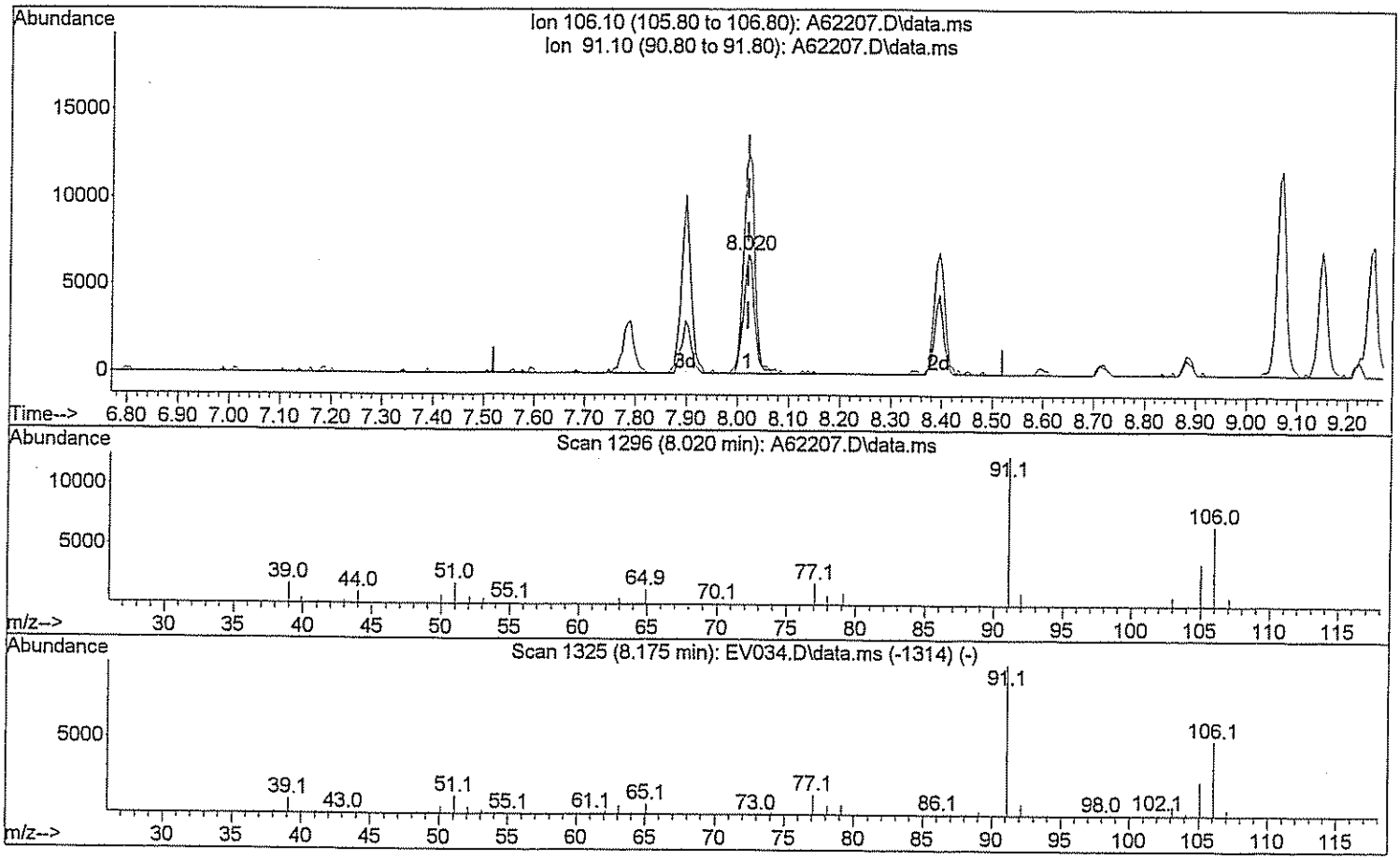
response 4019

Ion	Exp%	Act%
43.10	100	100
86.10	8.20	1.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 1.71 ug/L

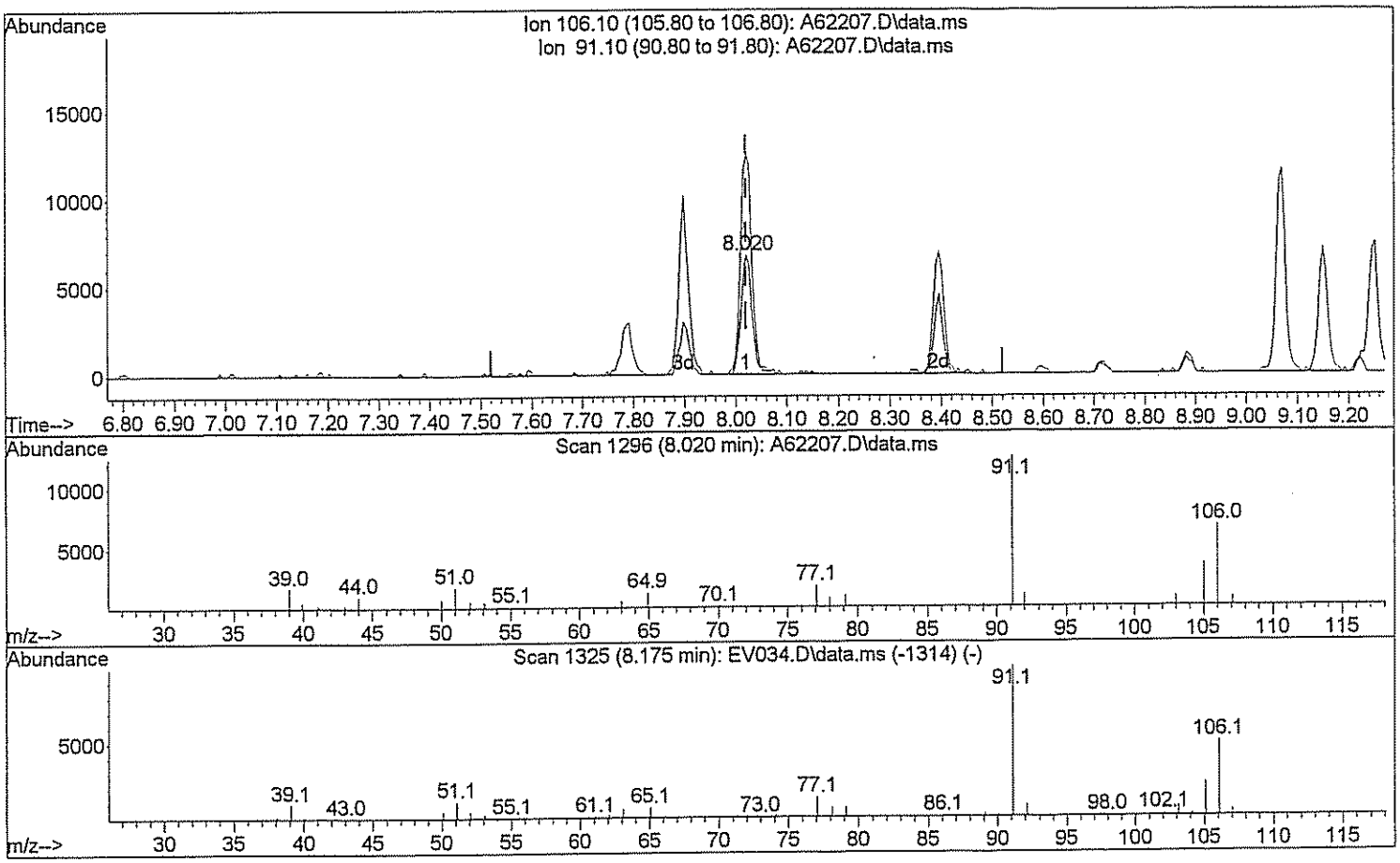
response 10091

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 2.63 ug/L m DW 3/17/09

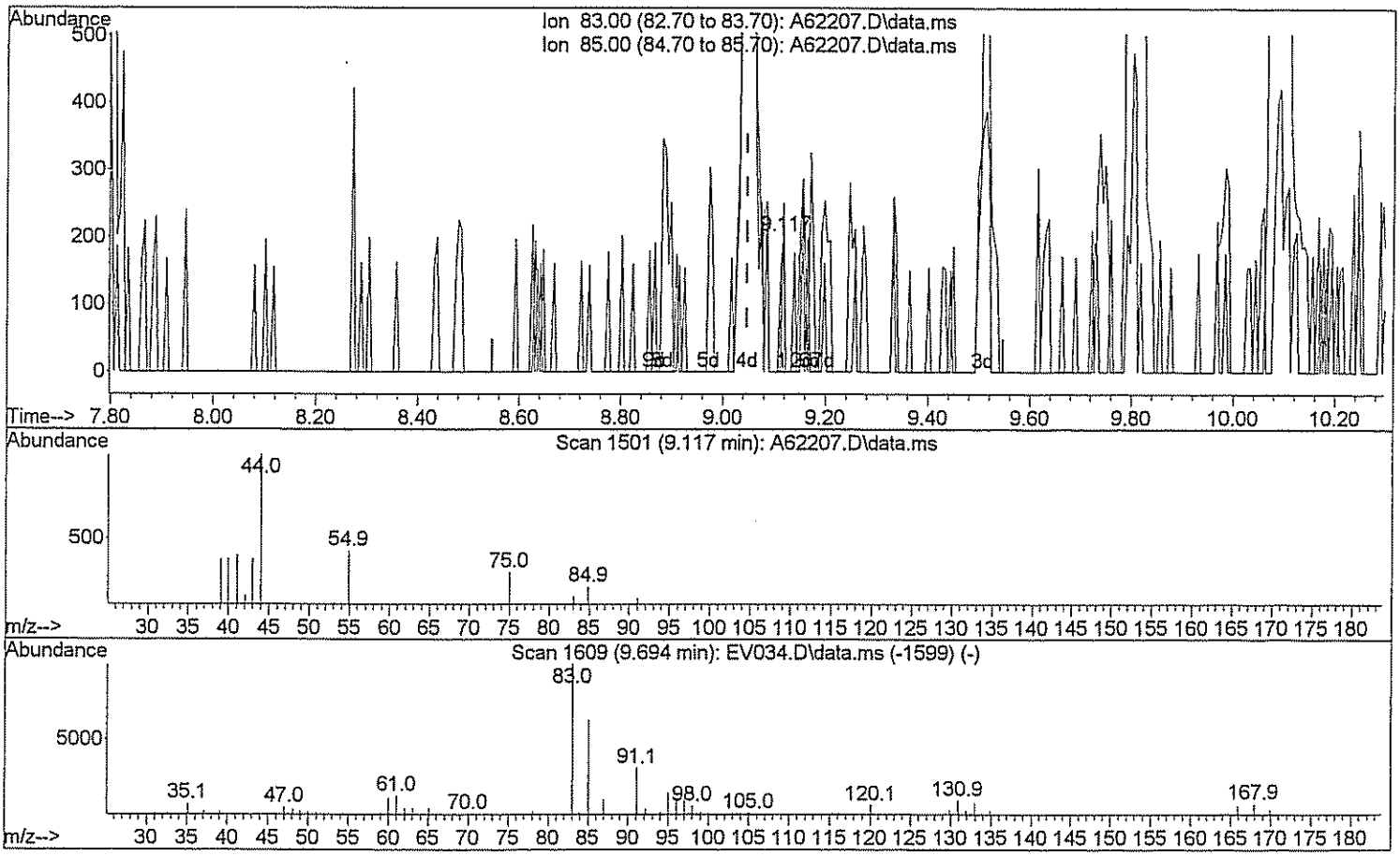
response 15541

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.94#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(78) 1,1,2,2-Tetrachloroethane

9.117min (+0.070) 0.03 ug/L

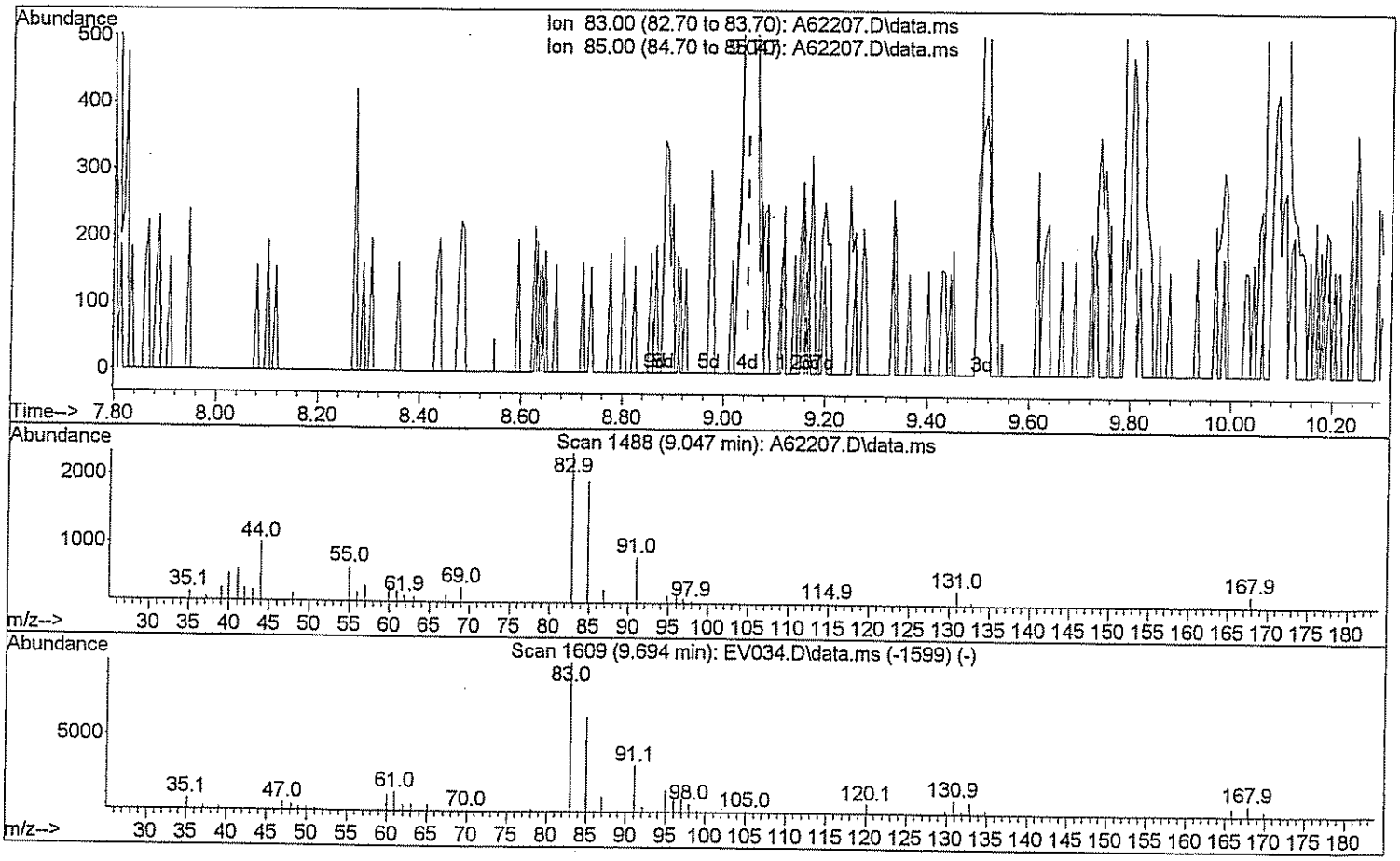
response 114

Ion	Exp%	Act%
83.00	100	100
85.00	62.40	71.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(78) 1,1,2,2-Tetrachloroethane

9.047min (+0.000) 0.95 ug/L m DM 3/17/09

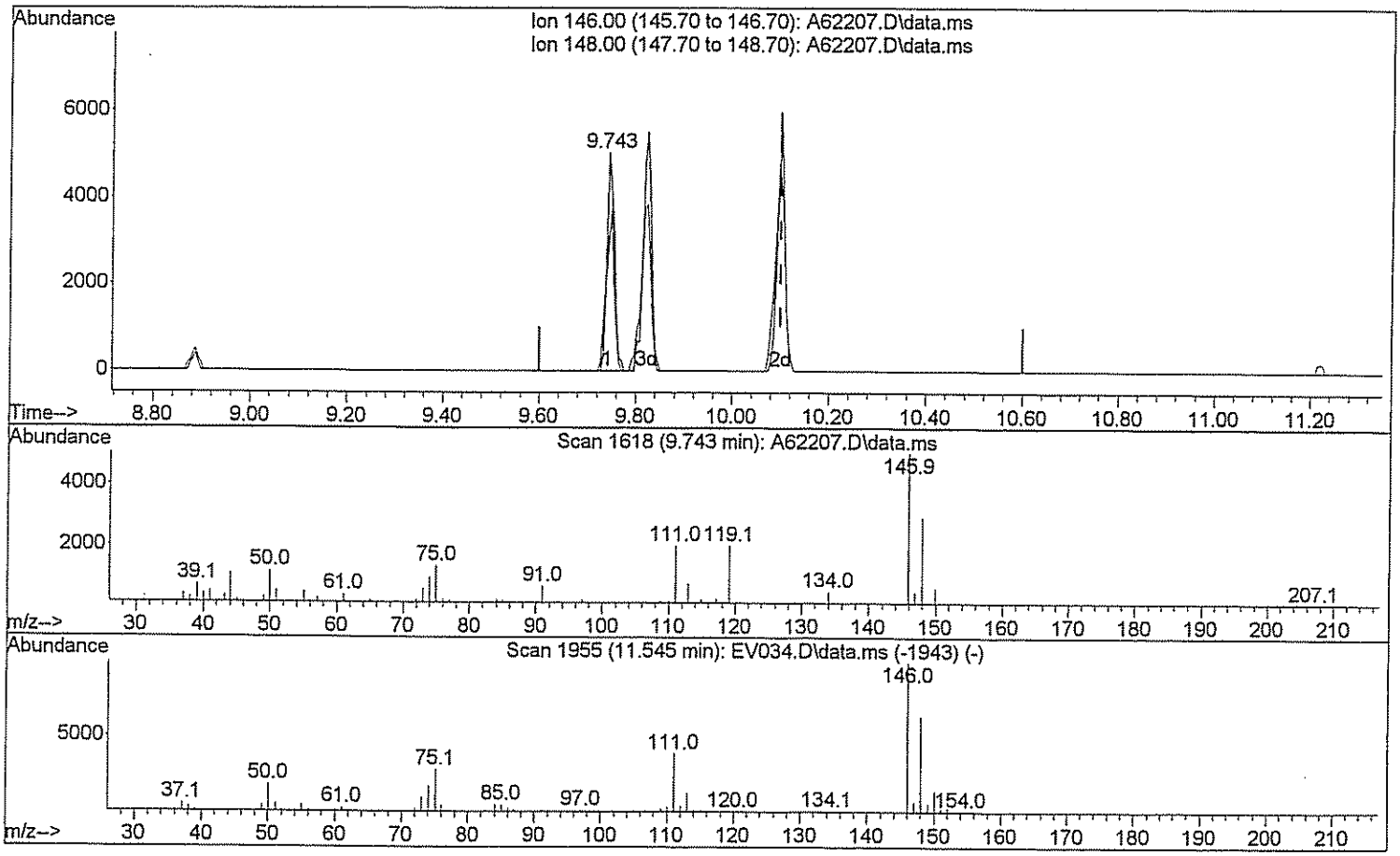
response 3138

Ion	Exp%	Act%
83.00	100	100
85.00	62.40	2.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(93) 1,2-Dichlorobenzene

9.743min (-0.358) 0.84 ug/L

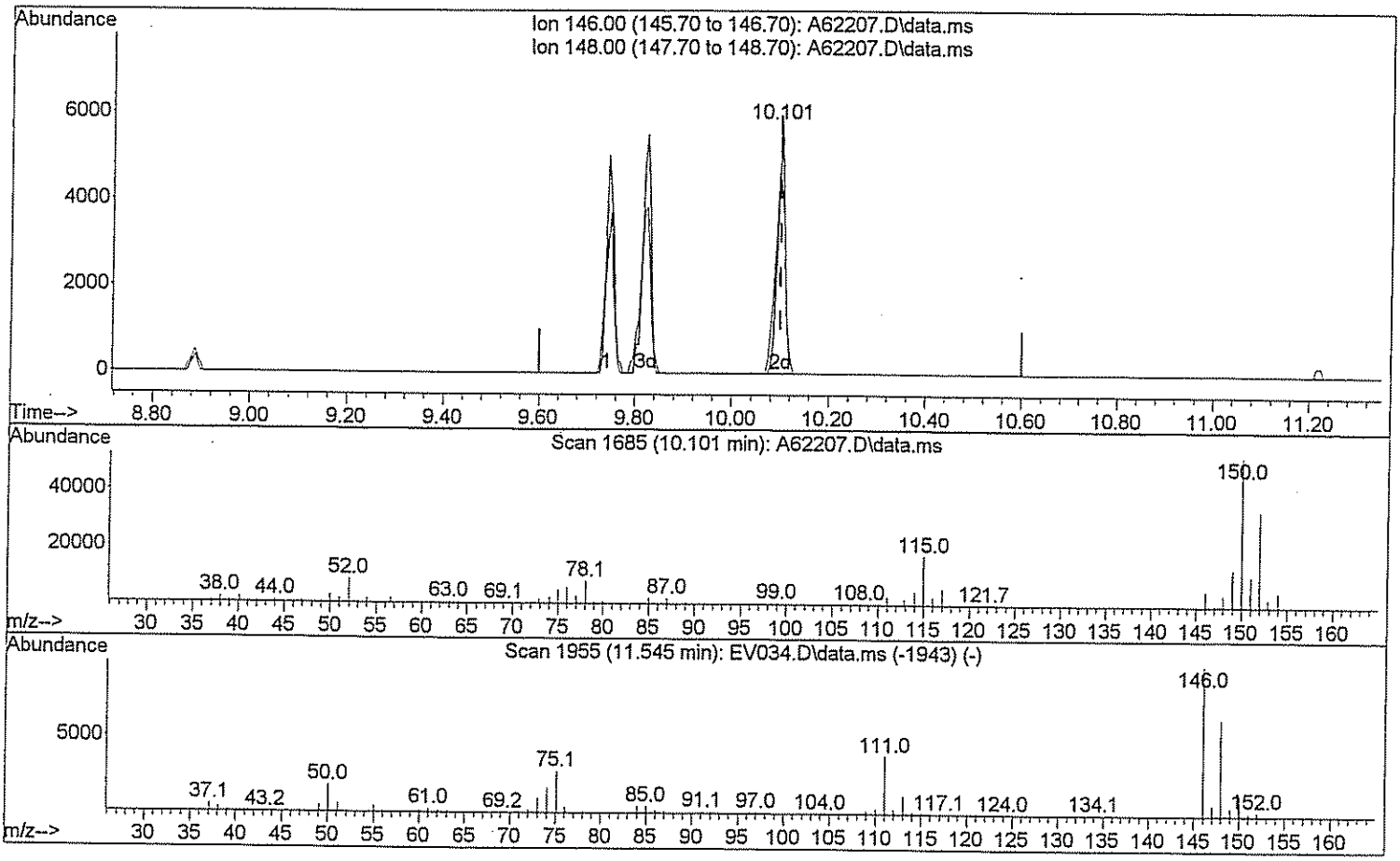
response 5746

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	68.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(93) 1,2-Dichlorobenzene

10.101min (+0.000) 0.89 ug/L m SM 3/17/09

response 6074

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	64.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	620821	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	510609	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	461433	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	162435	48.71	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.42%				
54) Toluene-d8	6.142	98	578385	48.26	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.52%				
76) 4-Bromofluorobenzene	8.881	95	215086	49.24	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.48%				
92) 1,2-Dichlorobenzene-d4	10.085	152	202987	46.44	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 92.88%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	5296	4.41	ug/L		95
3) Chloromethane	1.322	50	11263	5.36	ug/L	#	63
4) Vinyl chloride	1.392	62	11774	4.56	ug/L	#	46
5) Bromomethane	1.622	94	4253m	3.53	ug/L		
6) Chloroethane	1.686	64	8923m	4.93	ug/L		
7) Trichlorofluoromethane	1.841	101	15209	4.18	ug/L		99
8) Ethyl Ether	2.044	59	9718	4.19	ug/L		90
9) Freon 113	2.178	101	8353	4.01	ug/L		93
10) Acrolein	2.189	56	11354	25.72	ug/L	#	74
11) Tert-Butyl alcohol	2.665	59	25601	95.22	ug/L	#	47
12) 1,1-Dichloroethene	2.210	96	10037	4.31	ug/L		76
13) Iodomethane	2.333	142	6874	3.17	ug/L		97
14) Acetonitrile	2.483	40	46779	30.48	ug/L	#	1
15) Methylene chloride	2.590	84	13777	4.85	ug/L		96
16) Trans-1,2-dichloroethene	2.750	96	11537	4.30	ug/L		84
17) Isopropyl ether	3.088	45	44510	4.22	ug/L		100
18) 1,1-Dichloroethane	3.109	63	20739	4.14	ug/L		99
19) Acetone	2.296	43	10639	10.34	ug/L		96
20) Methyl Acetate	4.254	43	13443	6.38	ug/L	#	100
21) MTBE	2.734	73	31650	4.39	ug/L		100
22) Carbon disulfide	2.355	76	35249	4.58	ug/L		100
24) Acrylonitrile	2.831	53	18286	22.89	ug/L		93
25) Chloroprene	3.146	53	19767	4.32	ug/L		89
26) n-Heptane	4.436	71	9657m	4.38	ug/L		
27) 2,2-Dichloropropane	3.548	77	16666	3.98	ug/L	#	53
28) Cis-1,2-dichloroethene	3.580	96	13315	4.17	ug/L		98

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	27425m	9.07	ug/L		
30) Propionitrile	3.729	54	18264	45.27	ug/L		96
31) Bromochloromethane	3.783	128	5626	3.80	ug/L		95
32) Tetrahydrofuran	3.794	72	3012	4.56	ug/L	#	1
33) Chloroform	3.836	83	21517	4.09	ug/L		97
34) Cyclohexane	3.933	56	18757	4.06	ug/L	#	81
35) 1,1,1-Trichloroethane	3.960	97	17034	4.08	ug/L		94
36) Carbon tetrachloride	4.061	117	14873	4.07	ug/L		98
37) Methacrylonitrile	3.820	41	84193	38.28	ug/L	#	12
38) Methylcyclohexane	4.987	83	18142	4.24	ug/L		95
39) Isobutyl Alcohol	4.436	43	17978	89.80	ug/L		91
42) 2-Butanone	3.612	43	15533	9.00	ug/L		98
43) 1,1-Dichloropropene	4.099	75	15570	4.18	ug/L		100
44) Vinyl Acetate	3.136	43	18207	4.53	ug/L		97
45) Benzene	4.281	78	47600	4.15	ug/L		100
46) 1,2-Dichloroethane	4.371	62	15061m	4.16	ug/L		
47) Trichloroethene	4.880	95	12390	4.34	ug/L		96
48) 1,2-Dichloropropane	5.158	63	11740	3.93	ug/L		98
49) Methyl methacrylate	5.265	69	10447	5.39	ug/L		83
50) Dibromomethane	5.276	93	7721	4.46	ug/L		99
51) Bromodichloromethane	5.425	83	16101	4.29	ug/L		100
52) 2-Chloroethylvinyl ether	5.773	63	29297	24.02	ug/L		92
53) Cis-1,3-dichloropropene	5.912	75	18450	3.79	ug/L		96
55) Toluene	6.217	92	30564	4.02	ug/L		94
56) Trans-1,3-dichloropropene	6.570	75	18138	4.09	ug/L		95
57) Ethyl methacrylate	6.624	69	15501	4.24	ug/L		93
58) 1,1,2-Trichloroethane	6.768	83	9497	4.16	ug/L		97
60) 4-Methyl-2-pentanone	6.094	43	26186	9.51	ug/L	#	91
61) 2-Hexanone	7.062	43	20194	10.08	ug/L		95
62) Tetrachloroethene	6.790	166	11834	4.12	ug/L		92
63) 1,3-Dichloropropane	6.966	76	18431	4.60	ug/L		96
64) Dibromochloromethane	7.185	129	13422	4.58	ug/L		91
65) 1,2-Dibromoethane	7.319	107	11148	4.58	ug/L		99
66) 1-Chlorohexane	7.785	91	18454	4.64	ug/L		93
67) Chlorobenzene	7.806	112	34730	4.20	ug/L		93
68) 1,1,1,2-Tetrachloroethane	7.908	131	11935	3.93	ug/L	#	18
69) Ethylbenzene	7.897	91	59985	4.27	ug/L		99
70) m,p-Xylene	8.020	106	47385	8.43	ug/L		90
71) o-Xylene	8.394	106	23297	4.19	ug/L		92
72) Xylene (Total)	8.020	106	70685m	12.36	ug/L		
73) Styrene	8.421	104	39554	4.21	ug/L		98
74) Bromoform	8.598	173	8081	4.40	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

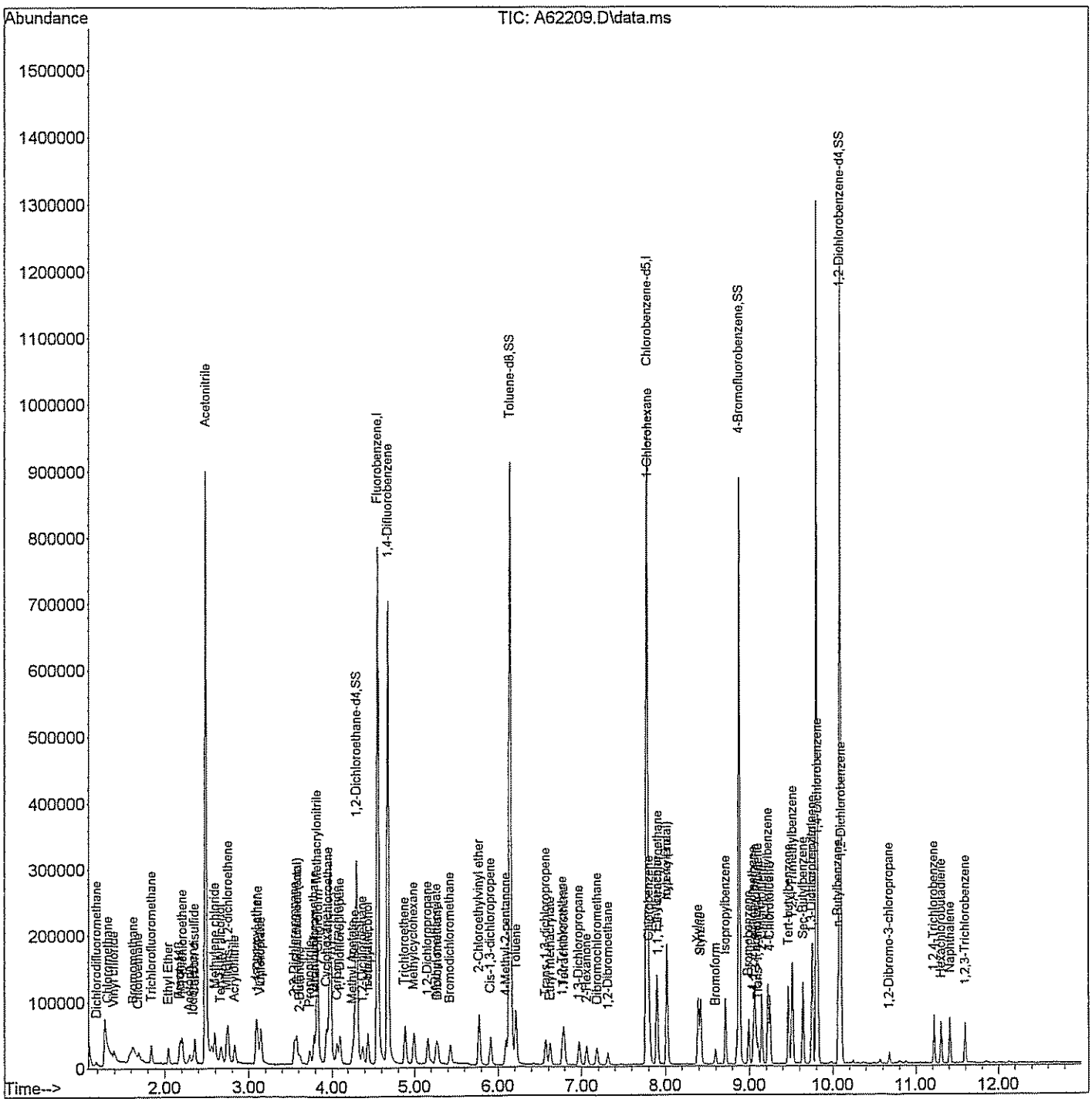
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	51123	4.25	ug/L		100
77) Bromobenzene	8.994	156	13648	4.16	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	14505	4.66	ug/L		95
79) 1,2,3-Trichloropropane	9.085	110	4733	5.19	ug/L		86
80) n-Propylbenzene	9.063	91	70946	4.31	ug/L		99
81) Trans-1,4-dichloro-2-b...	9.106	53	4560	5.46	ug/L	#	25
82) 2-Chlorotoluene	9.149	126	14908	4.30	ug/L	#	83
83) 4-Chlorotoluene	9.245	126	15465	4.31	ug/L		86
84) 1,3,5-Trimethylbenzene	9.224	105	48345	4.05	ug/L		98
85) Tert-butylbenzene	9.470	119	42422	4.07	ug/L		96
87) 1,2,4-Trimethylbenzene	9.518	105	50363	4.06	ug/L		94
88) Sec-Butylbenzene	9.641	105	63647	4.00	ug/L		98
89) 1,3-Dichlorobenzene	9.743	146	26904	3.80	ug/L		98
90) 4-Isopropyltoluene	9.753	119	54688	3.96	ug/L		98
91) 1,4-Dichlorobenzene	9.817	146	28782	4.10	ug/L		93
93) 1,2-Dichlorobenzene	10.101	146	25653	3.79	ug/L		86
94) n-Butylbenzene	10.058	91	54952	4.25	ug/L		98
95) 1,2-Dibromo-3-chloropr...	10.679	75	2578	4.80	ug/L		86
96) 1,2,4-Trichlorobenzene	11.219	180	15481	3.92	ug/L		97
97) Hexachlorobutadiene	11.305	225	6672	3.59	ug/L		100
98) Naphthalene	11.412	128	41431	4.35	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	13348	4.01	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

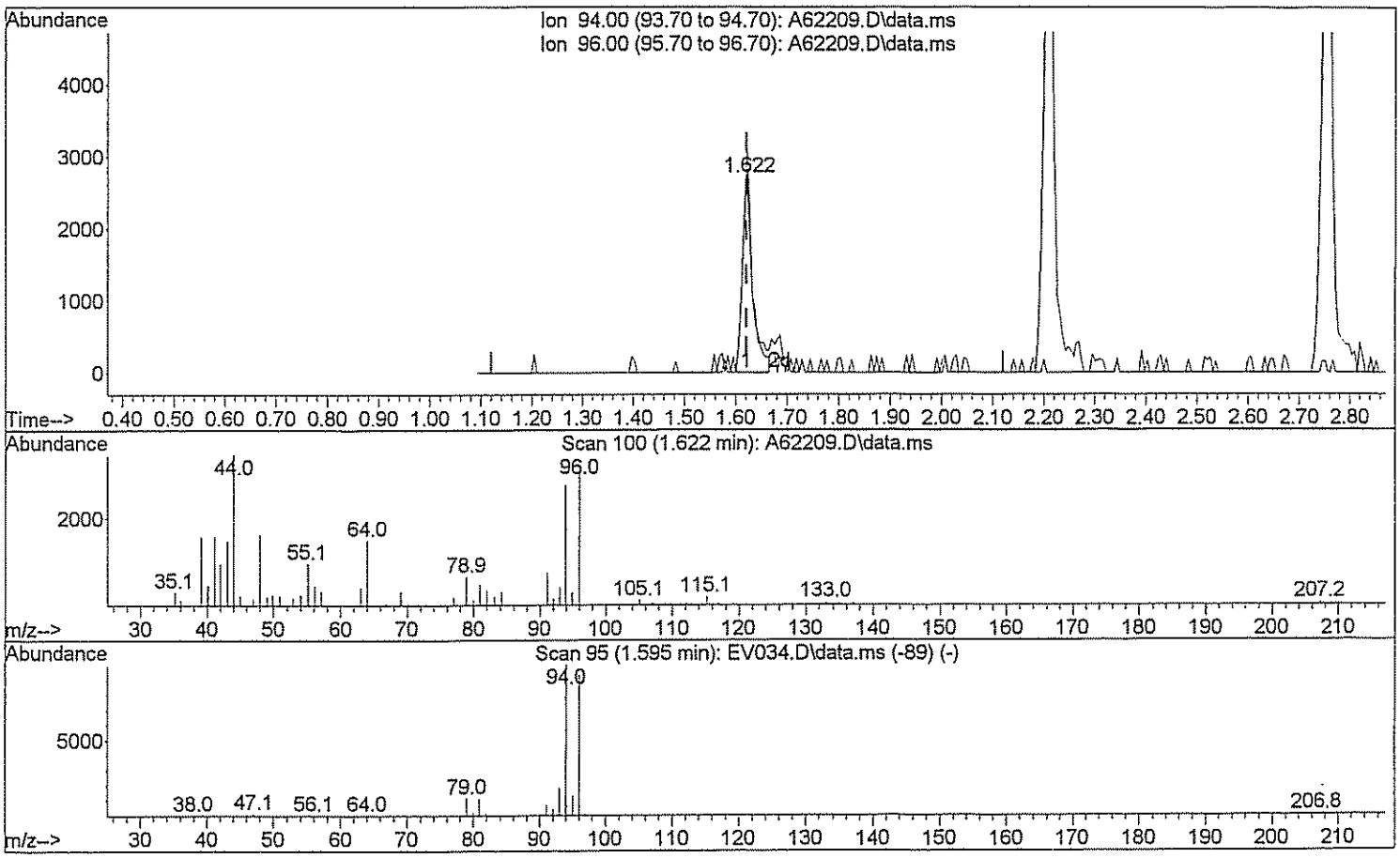
Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(5) Bromomethane

1.622min (+0.000) 3.06 ug/L

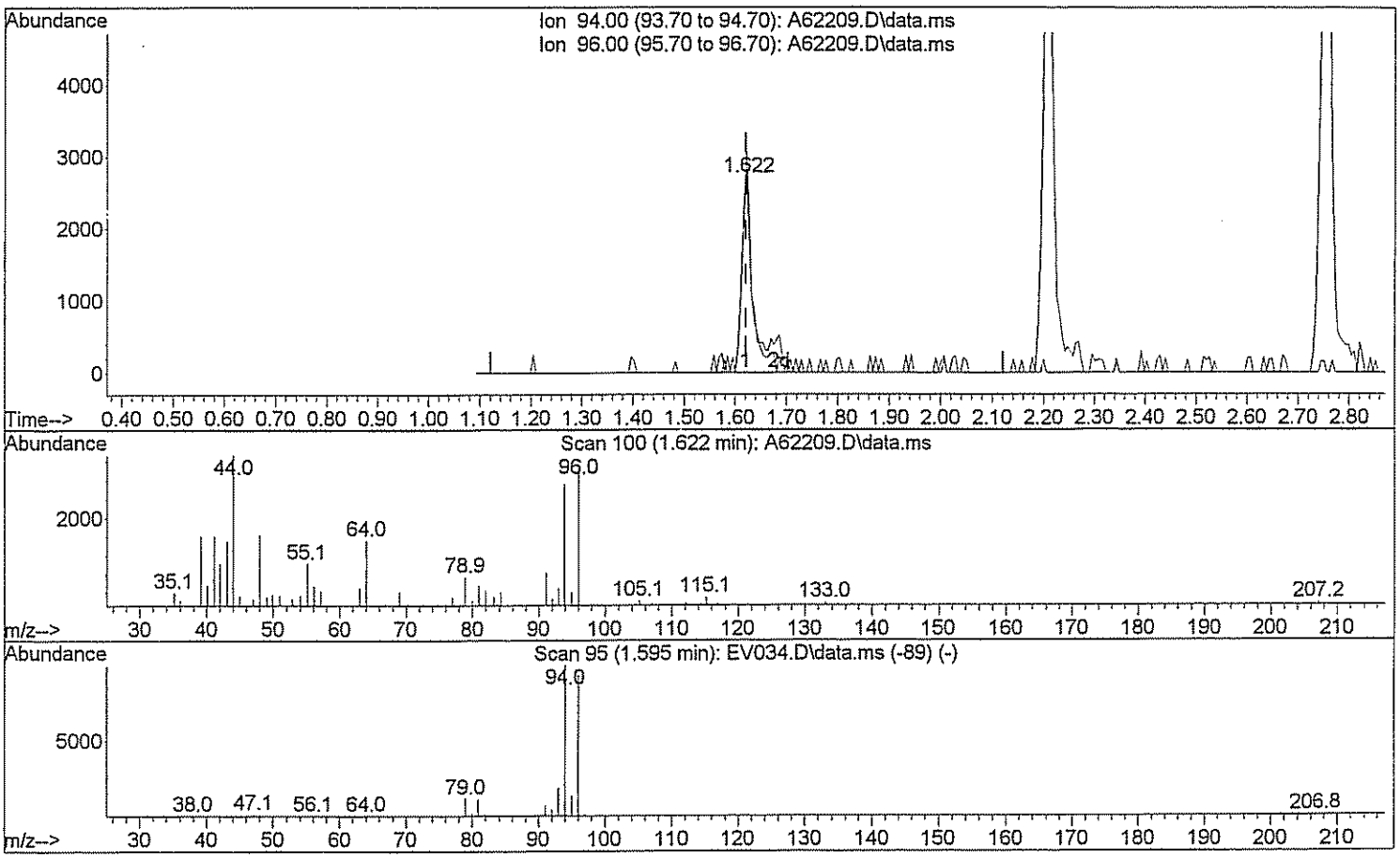
response 3686

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	114.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(5) Bromomethane

1.622min (+0.000) 3.53 ug/L m SW 3/17/09

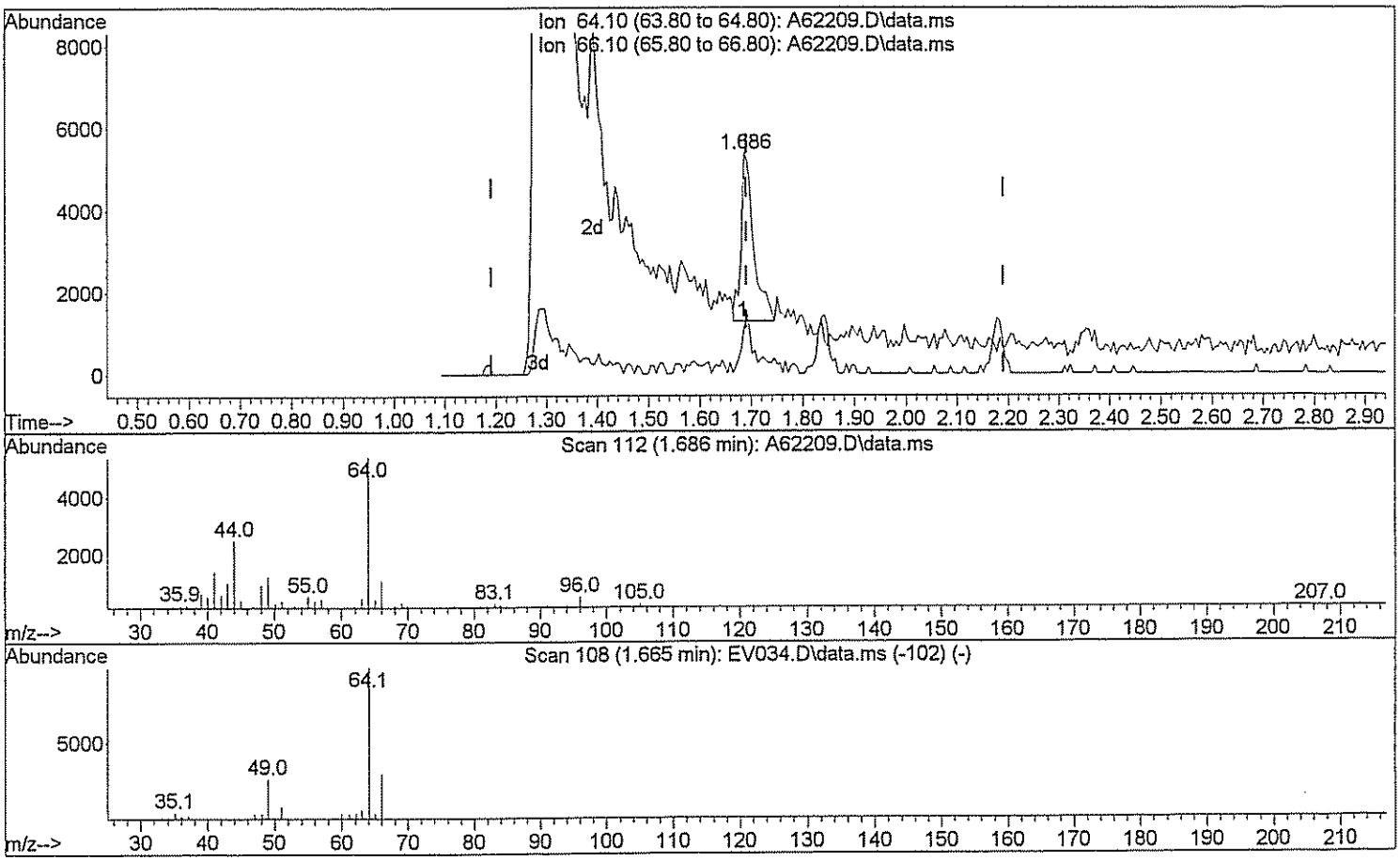
response 4253

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	98.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(6) Chloroethane

1.686min (-0.005) 3.89 ug/L

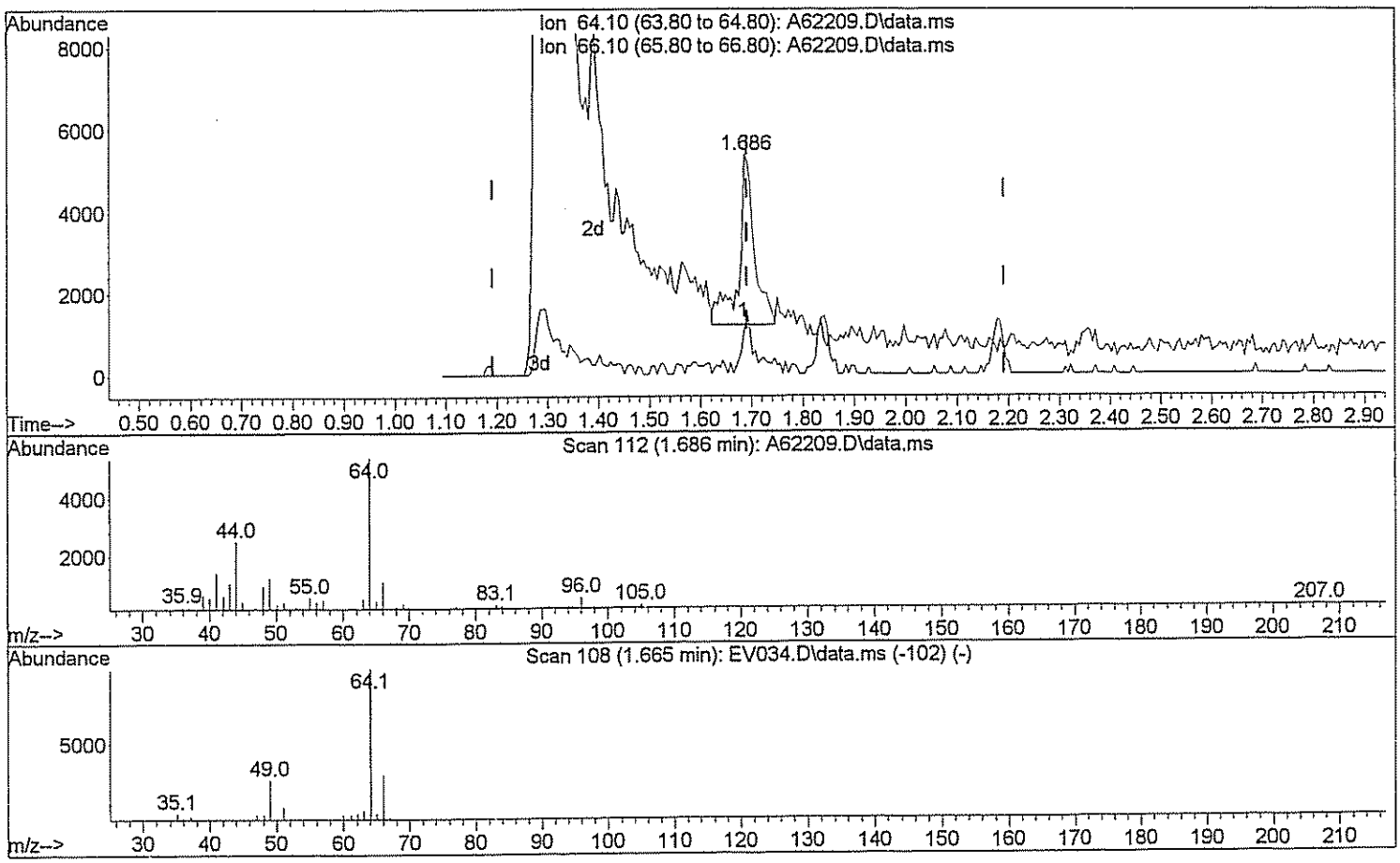
response 7032

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	29.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(6) Chloroethane

1.686min (-0.005) 4.93 ug/L m SM 3/17/09

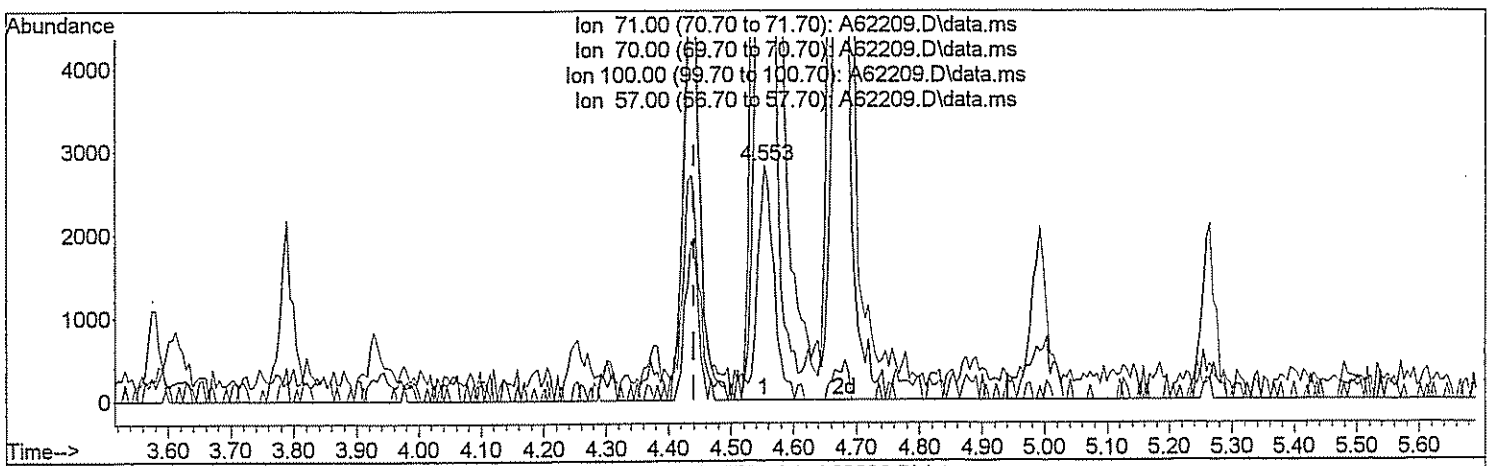
response 8923

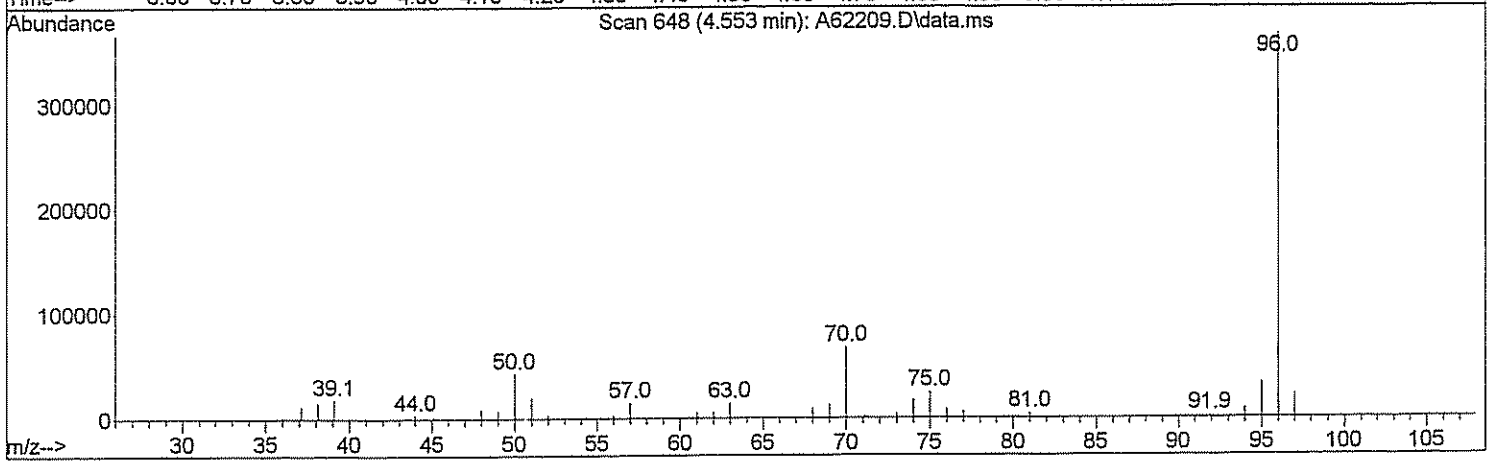
Ion	Exp%	Act%
64.10	100	100
66.10	29.60	23.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration





TIC: A62209.D\data.ms

(26) n-Heptane (T)

4.553min (+0.112) 2.38 ug/L

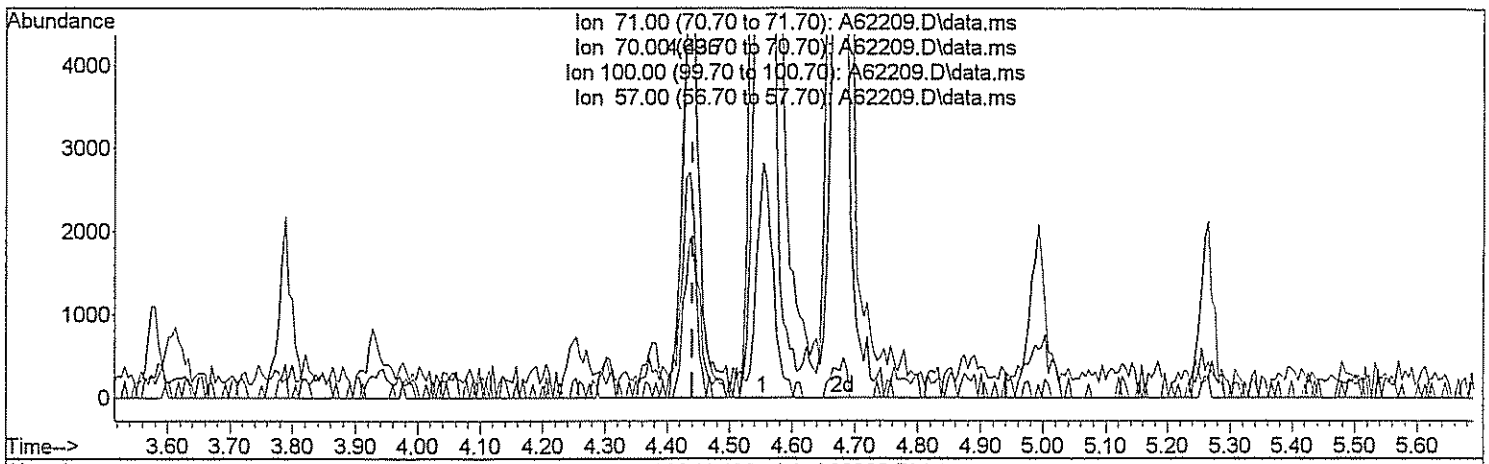
response 5249

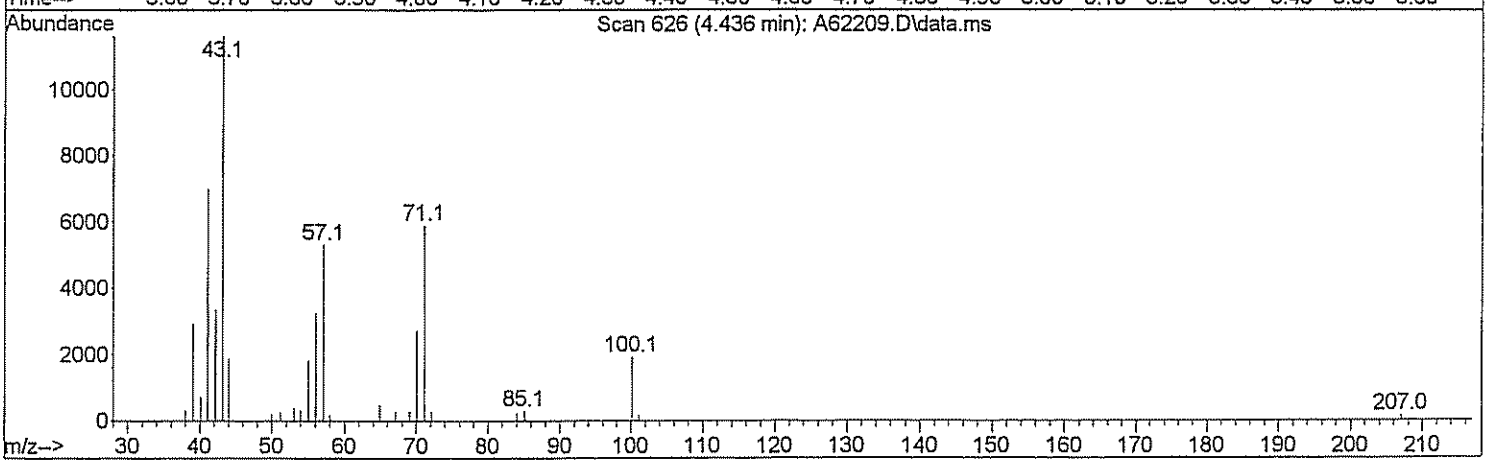
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2067.21#
100.00	62.00	0.00#
57.00	40.00	486.55#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration





TIC: A62209.D\data.ms

(26) n-Heptane (T)

4.436min (-0.005) 4.38 ug/L m 3/17/09

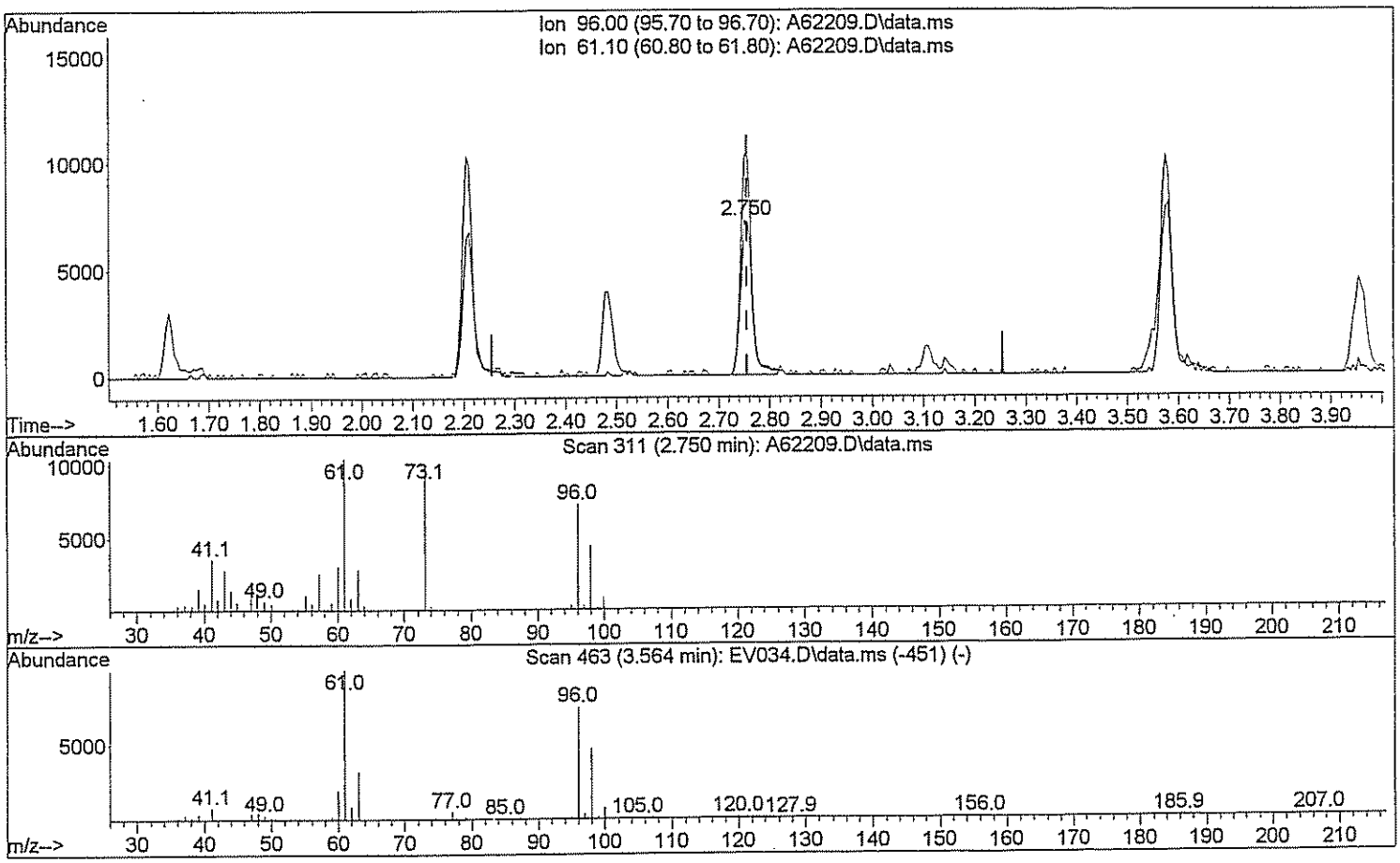
response 9657

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1123.62#
100.00	62.00	0.00#
57.00	40.00	264.46#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 3.82 ug/L

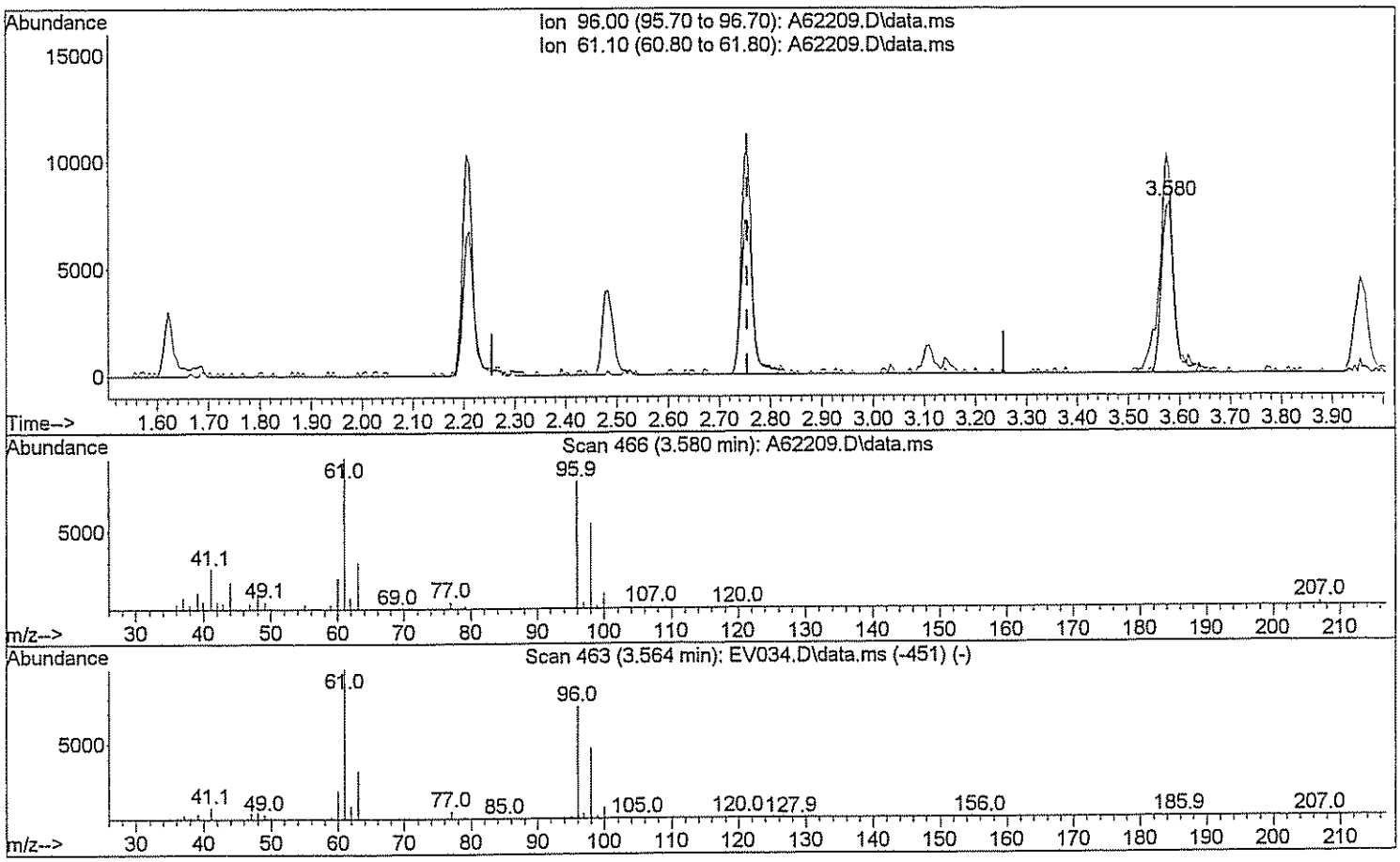
response 11537

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	134.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.824) 9.07 ug/L m DN 3/17/09

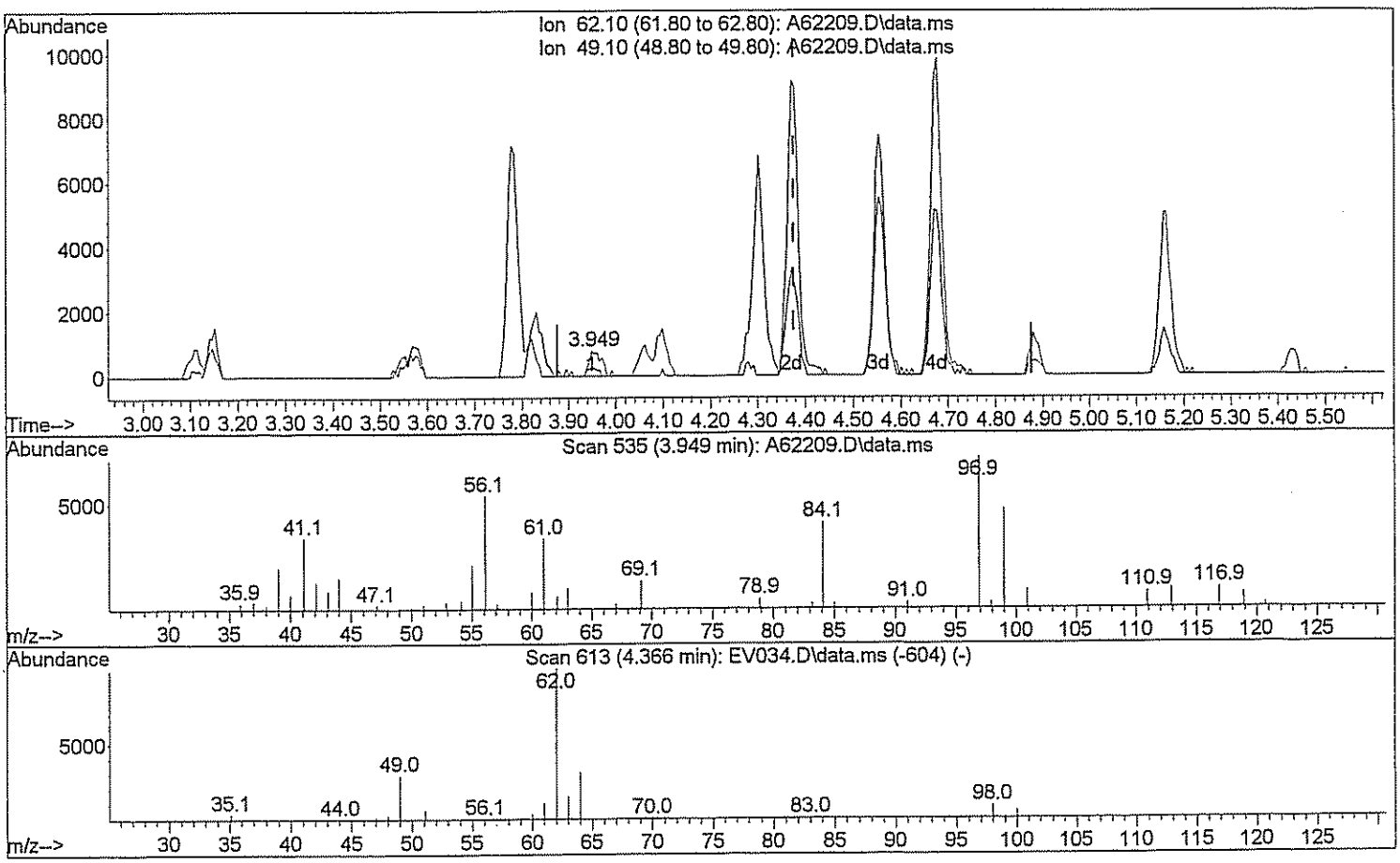
response 27425

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	56.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(46) 1,2-Dichloroethane

3.949min (-0.428) 0.37 ug/L

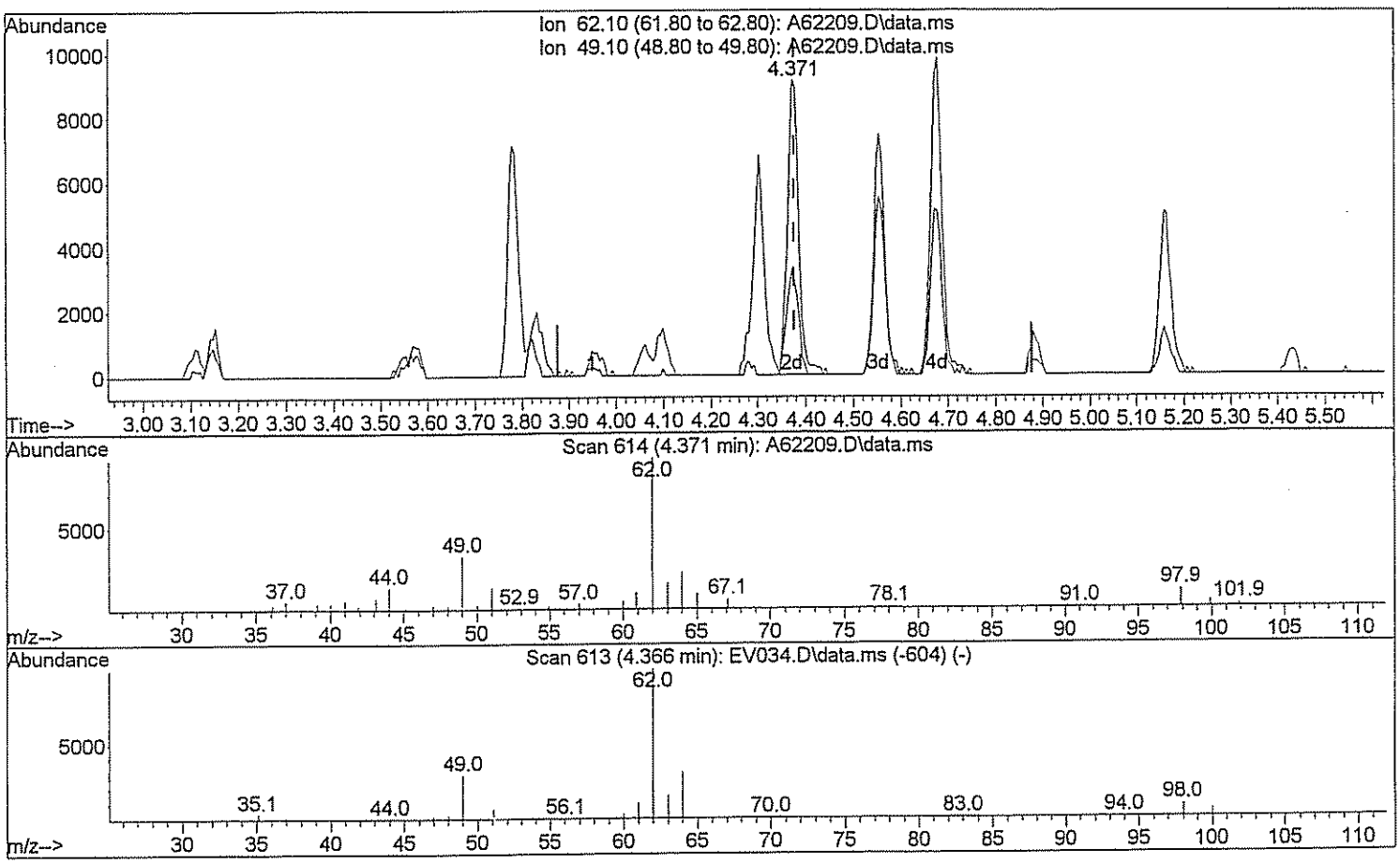
response 1349

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	28.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(46) 1,2-Dichloroethane

4.371min (-0.005) 4.16 ug/L m

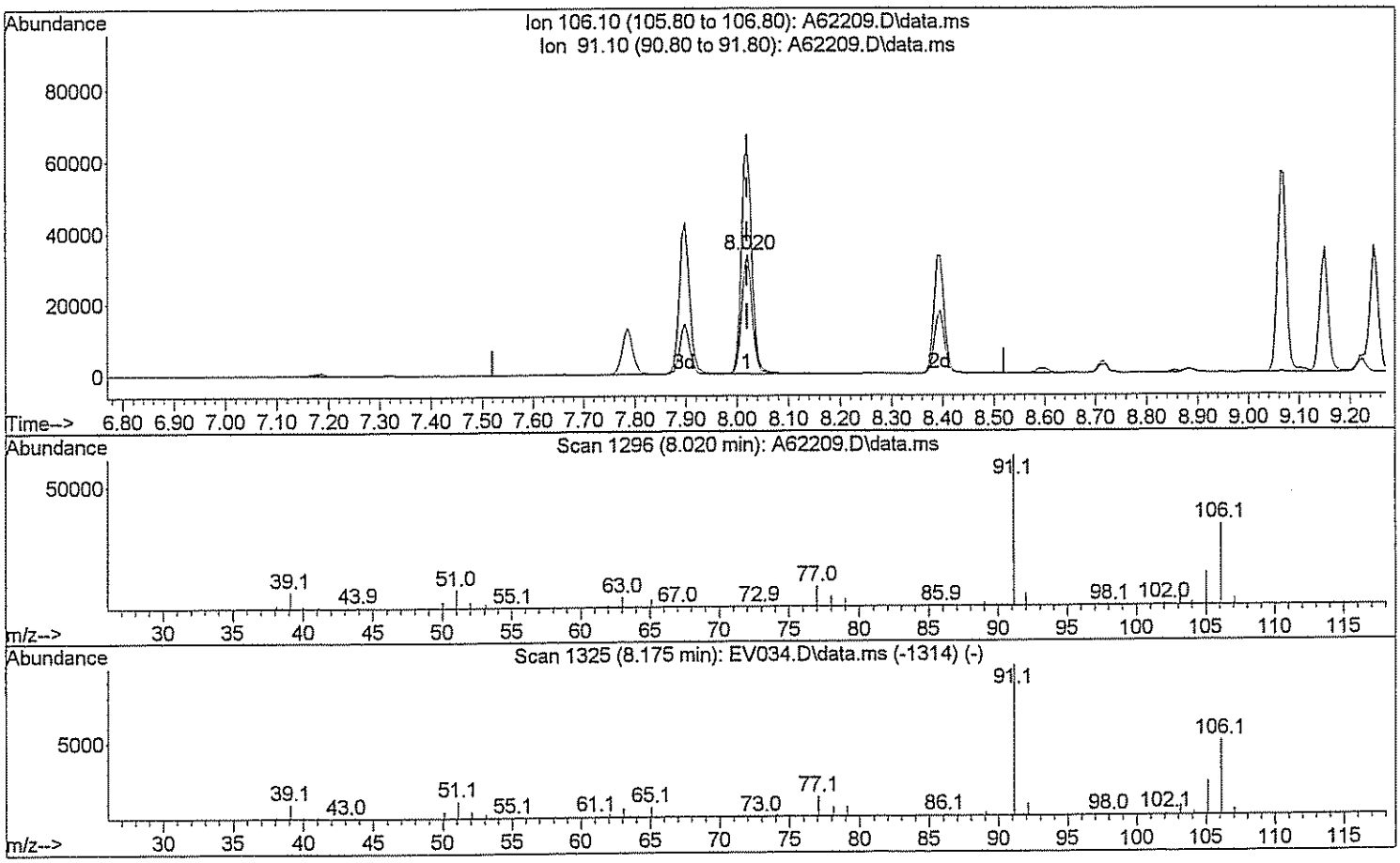
response 15061

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 8.28 ug/L

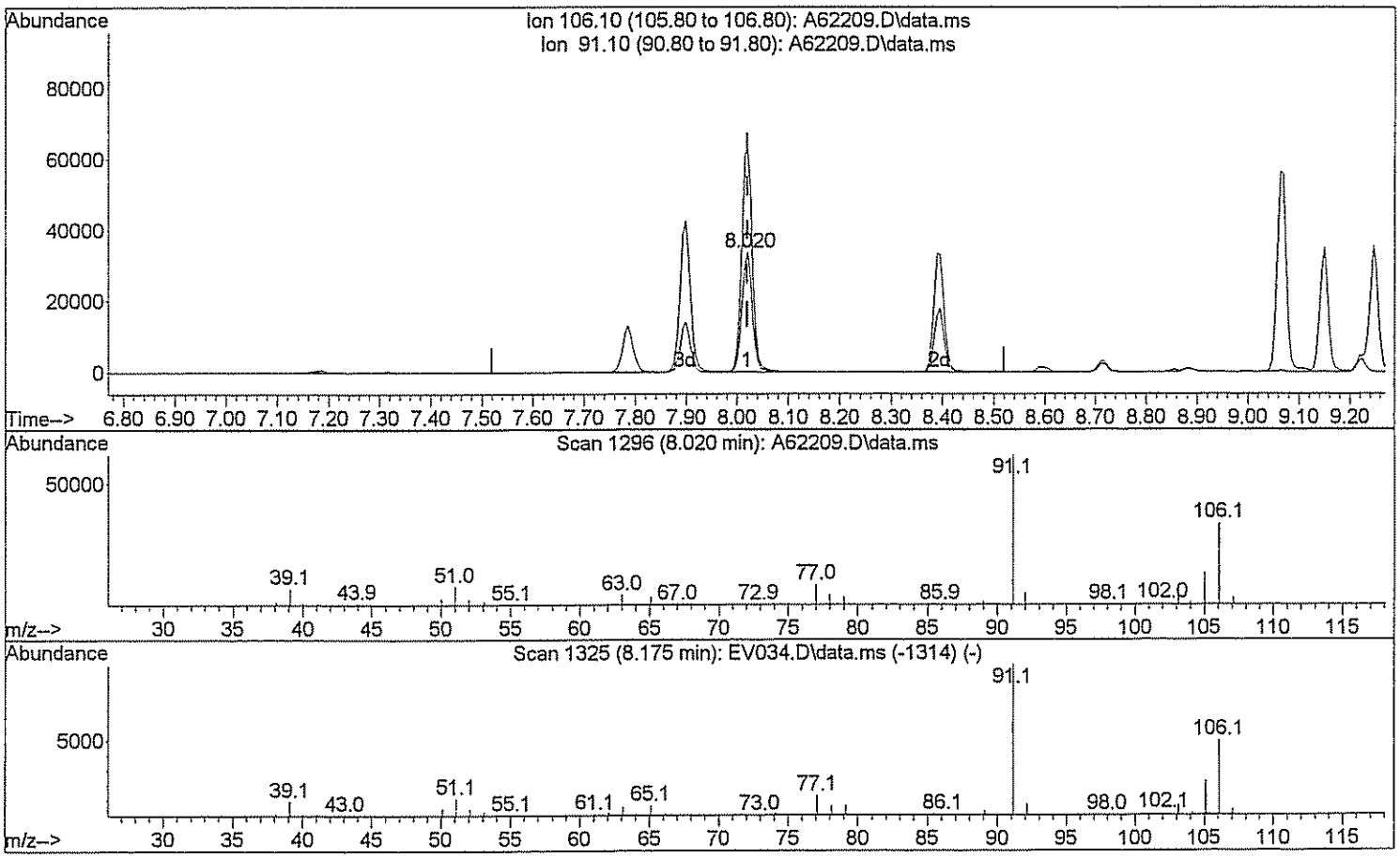
response 47385

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 12.36 ug/L m SM 3/17/09

response 70685

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.45#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	553220	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	454496	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	419468	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	145754	48.73	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.46%				
54) Toluene-d8	6.142	98	518648	48.17	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.34%				
76) 4-Bromofluorobenzene	8.881	95	198881	50.11	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.22%				
92) 1,2-Dichlorobenzene-d4	10.085	152	191647	47.67	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 95.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	22683	21.82	ug/L		97
3) Chloromethane	1.327	50	38383m	20.68	ug/L		
4) Vinyl chloride	1.397	62	42503	18.03	ug/L	#	74
5) Bromomethane	1.622	94	21911	20.64	ug/L		87
6) Chloroethane	1.691	64	31385	19.31	ug/L		93
7) Trichlorofluoromethane	1.841	101	62310	18.86	ug/L		95
8) Ethyl Ether	2.044	59	36511	16.98	ug/L		96
9) Freon 113	2.183	101	38442	21.06	ug/L		90
10) Acrolein	2.189	56	34430	84.02	ug/L	#	64
11) Tert-Butyl alcohol	2.670	59	80163	309.29	ug/L	#	47
12) 1,1-Dichloroethene	2.210	96	37050	17.23	ug/L		86
13) Iodomethane	2.333	142	44272	24.05	ug/L		93
14) Acetonitrile	2.483	40	206871	139.91	ug/L	#	1
15) Methylene chloride	2.595	84	47036	18.14	ug/L		97
16) Trans-1,2-dichloroethene	2.756	96	43592	17.46	ug/L		86
17) Isopropyl ether	3.093	45	172315	17.62	ug/L		99
18) 1,1-Dichloroethane	3.109	63	81435	17.48	ug/L		99
19) Acetone	2.296	43	31043	32.22	ug/L		99
20) Methyl Acetate	4.259	43	40988	22.85	ug/L	#	100
21) MTBE	2.740	73	116553	17.36	ug/L		100
22) Carbon disulfide	2.360	76	130326	18.68	ug/L		100
24) Acrylonitrile	2.831	53	63684	86.41	ug/L		97
25) Chloroprene	3.146	53	74629	17.82	ug/L		92
26) n-Heptane	4.441	71	41645m	21.62	ug/L		
27) 2,2-Dichloropropane	3.553	77	65546	17.57	ug/L	#	78
28) Cis-1,2-dichloroethene	3.580	96	51423	18.07	ug/L		100

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	98727m	35.66	ug/L		
30) Propionitrile	3.735	54	61322	162.62	ug/L		98
31) Bromochloromethane	3.783	128	23720	17.41	ug/L		92
32) Tetrahydrofuran	3.788	72	10883	18.06	ug/L	#	22
33) Chloroform	3.836	83	78218	15.79	ug/L		99
34) Cyclohexane	3.938	56	82196	19.97	ug/L		94
35) 1,1,1-Trichloroethane	3.959	97	67891	17.72	ug/L		98
36) Carbon tetrachloride	4.066	117	58586	17.41	ug/L		99
37) Methacrylonitrile	3.826	41	319463	153.51	ug/L	#	16
38) Methylcyclohexane	4.992	83	78324	20.75	ug/L		92
39) Isobutyl Alcohol	4.436	43	77335	452.45	ug/L		89
42) 2-Butanone	3.617	43	53217	33.16	ug/L		98
43) 1,1-Dichloropropene	4.099	75	60167	17.60	ug/L		100
44) Vinyl Acetate	3.136	43	58557	16.36	ug/L	#	95
45) Benzene	4.286	78	186683	17.77	ug/L		100
46) 1,2-Dichloroethane	4.377	62	58822	17.72	ug/L	#	85
47) Trichloroethene	4.885	95	47885	18.47	ug/L		98
48) 1,2-Dichloropropane	5.163	63	47828	17.38	ug/L		96
49) Methyl methacrylate	5.265	69	31100	17.47	ug/L		93
50) Dibromomethane	5.281	93	26649	16.54	ug/L		100
51) Bromodichloromethane	5.431	83	60679	17.62	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	27174	27.32	ug/L		99
53) Cis-1,3-dichloropropene	5.917	75	73064	16.84	ug/L		97
55) Toluene	6.217	92	120757	17.25	ug/L		97
56) Trans-1,3-dichloropropene	6.570	75	65209	16.50	ug/L		98
57) Ethyl methacrylate	6.624	69	58889	17.54	ug/L		94
58) 1,1,2-Trichloroethane	6.773	83	35068	17.24	ug/L		99
60) 4-Methyl-2-pentanone	6.094	43	95219	37.44	ug/L		95
61) 2-Hexanone	7.062	43	65905	35.06	ug/L	#	98
62) Tetrachloroethene	6.795	166	47752	17.78	ug/L		99
63) 1,3-Dichloropropane	6.971	76	66347	17.70	ug/L		93
64) Dibromochloromethane	7.185	129	48825	17.81	ug/L		95
65) 1,2-Dibromoethane	7.314	107	41606	18.45	ug/L		98
66) 1-Chlorohexane	7.785	91	68657	18.67	ug/L		98
67) Chlorobenzene	7.806	112	137741	17.81	ug/L		92
68) 1,1,1,2-Tetrachloroethane	7.908	131	48936	17.09	ug/L		94
69) Ethylbenzene	7.897	91	233839	17.81	ug/L		99
70) m,p-Xylene	8.020	106	187997	35.38	ug/L		90
71) o-Xylene	8.394	106	94963	18.42	ug/L		88
72) Xylene (Total)	8.020	106	283667m	52.95	ug/L		
73) Styrene	8.421	104	156053	17.74	ug/L		96
74) Bromoform	8.598	173	29487	16.98	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

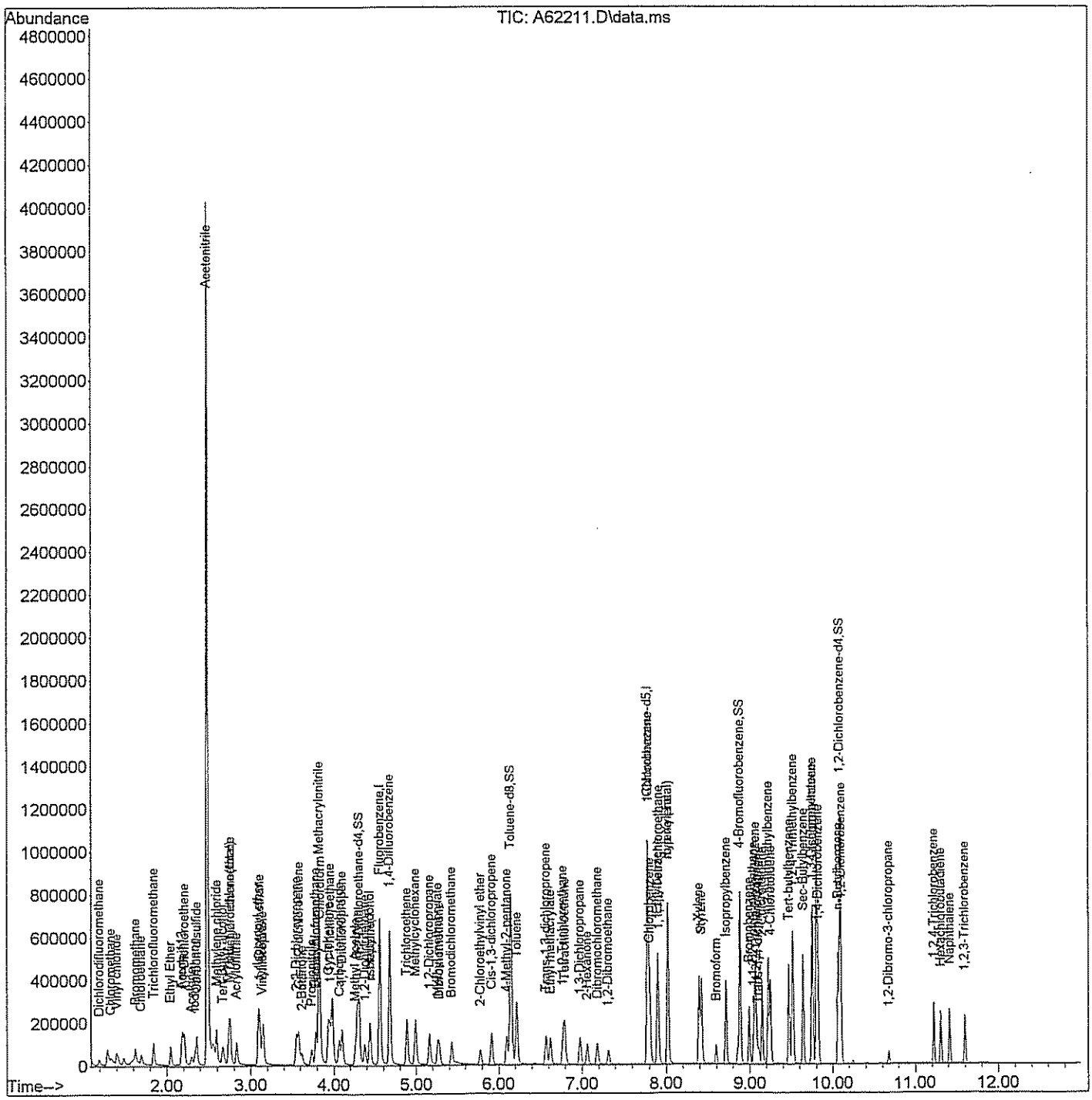
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	200704	17.88	ug/L		98
77) Bromobenzene	8.994	156	54693	17.85	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	51631	17.71	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	15281	17.96	ug/L		98
80) n-Propylbenzene	9.068	91	277751	18.11	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	10745	14.15	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	59122	18.39	ug/L		87
83) 4-Chlorotoluene	9.250	126	59717	17.79	ug/L		92
84) 1,3,5-Trimethylbenzene	9.224	105	195130	17.41	ug/L		95
85) Tert-butylbenzene	9.470	119	169553	17.29	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	198690	16.93	ug/L		92
88) Sec-Butylbenzene	9.641	105	260702	17.44	ug/L		99
89) 1,3-Dichlorobenzene	9.748	146	111192	16.52	ug/L		99
90) 4-Isopropyltoluene	9.753	119	224435	17.00	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	113933	17.23	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	104653	17.01	ug/L		98
94) n-Butylbenzene	10.063	91	210224	17.28	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	8530	16.76	ug/L		81
96) 1,2,4-Trichlorobenzene	11.224	180	60919	16.13	ug/L		99
97) Hexachlorobutadiene	11.305	225	28493	16.01	ug/L		96
98) Naphthalene	11.412	128	147178	16.20	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	51745	16.32	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

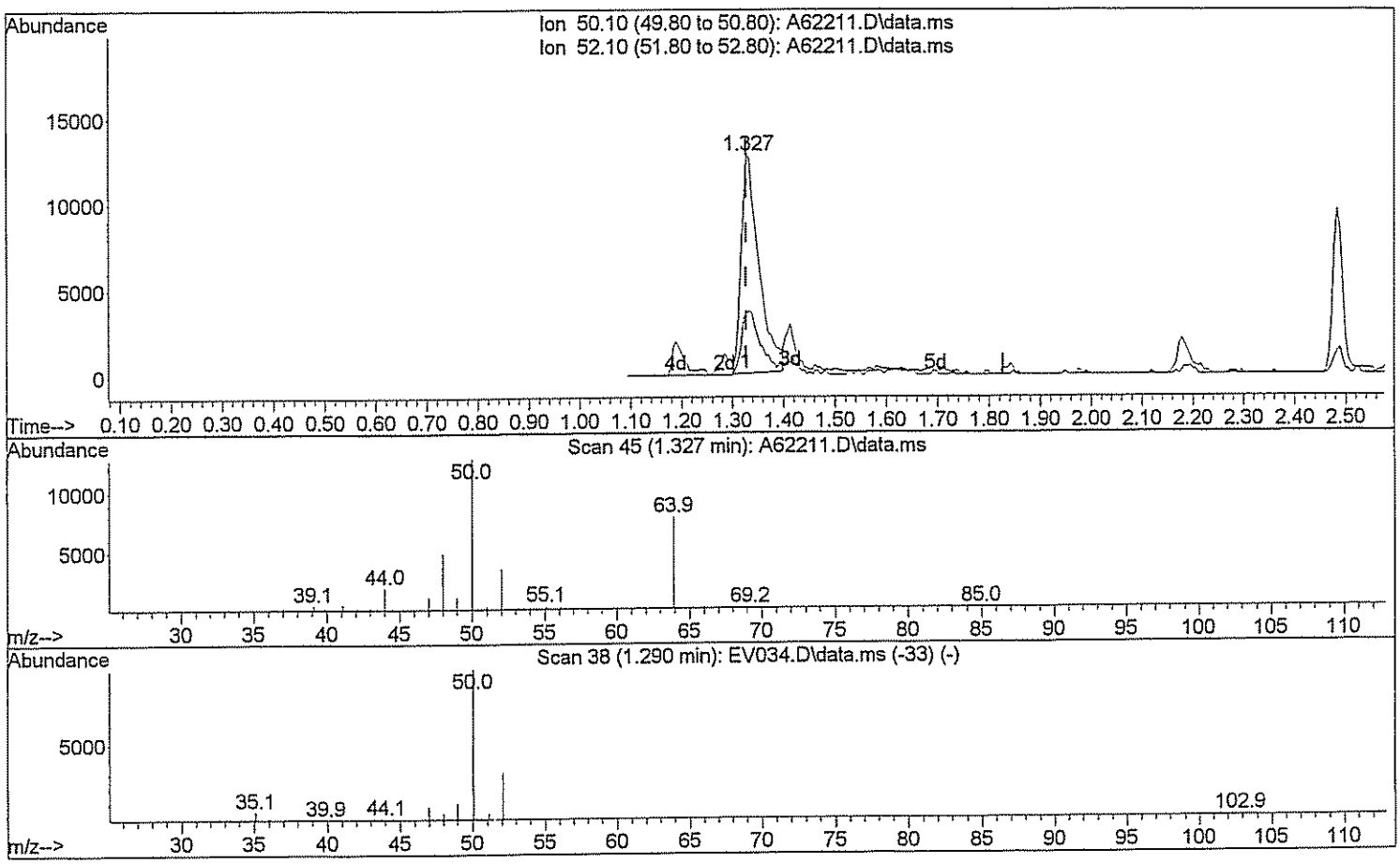
Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(3) Chloromethane

1.327min (-0.000) 16.63 ug/L

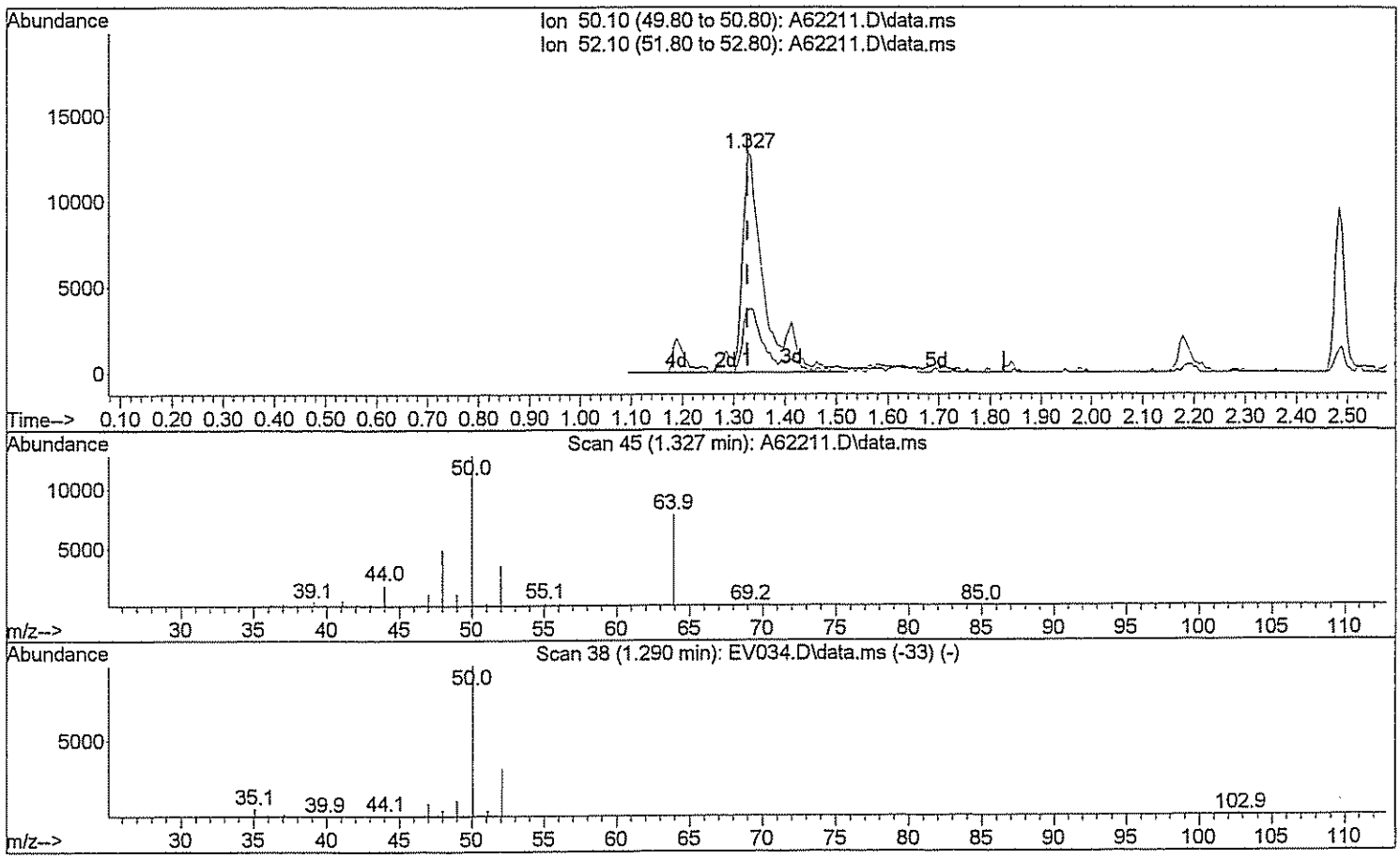
response 30866

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	31.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(3) Chloromethane

1.327min (-0.000) 20.68 ug/L m DM 3/17/09

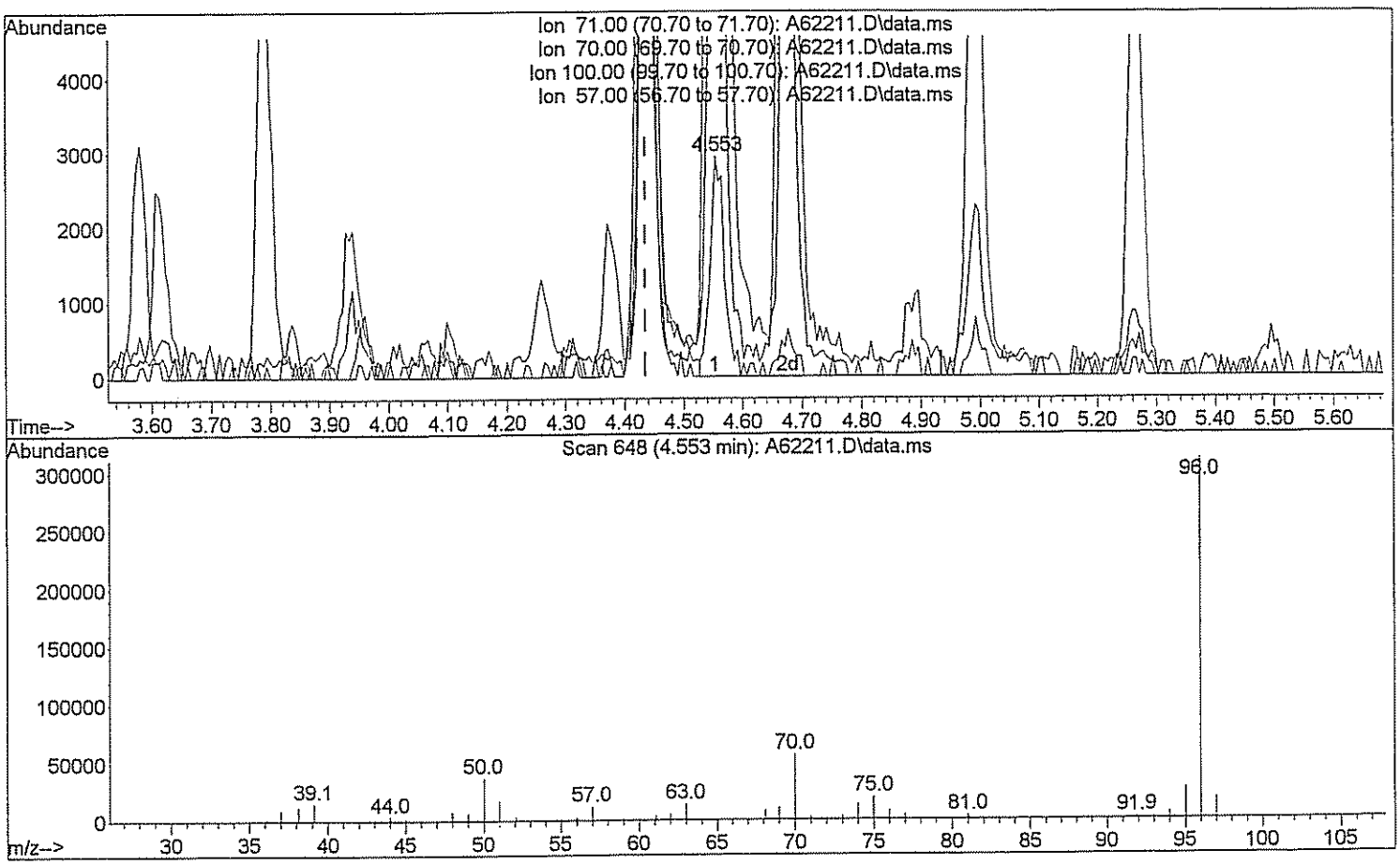
response 38383

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	24.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.60 ug/L

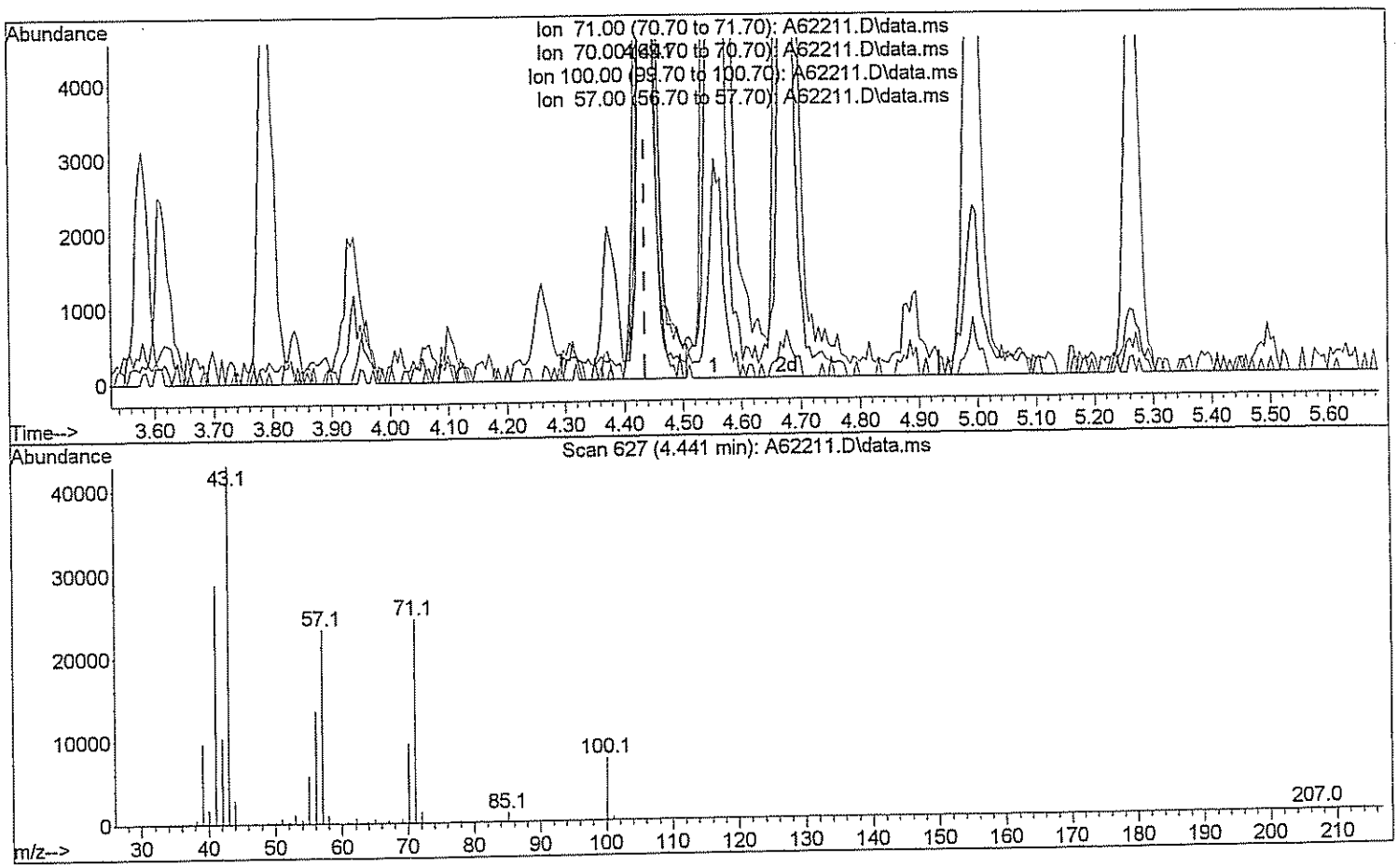
response 5014

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1952.27#
100.00	62.00	0.00#
57.00	40.00	404.87#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(26) n-Heptane (T)

4.441min (+0.005) 21.62 ug/L m

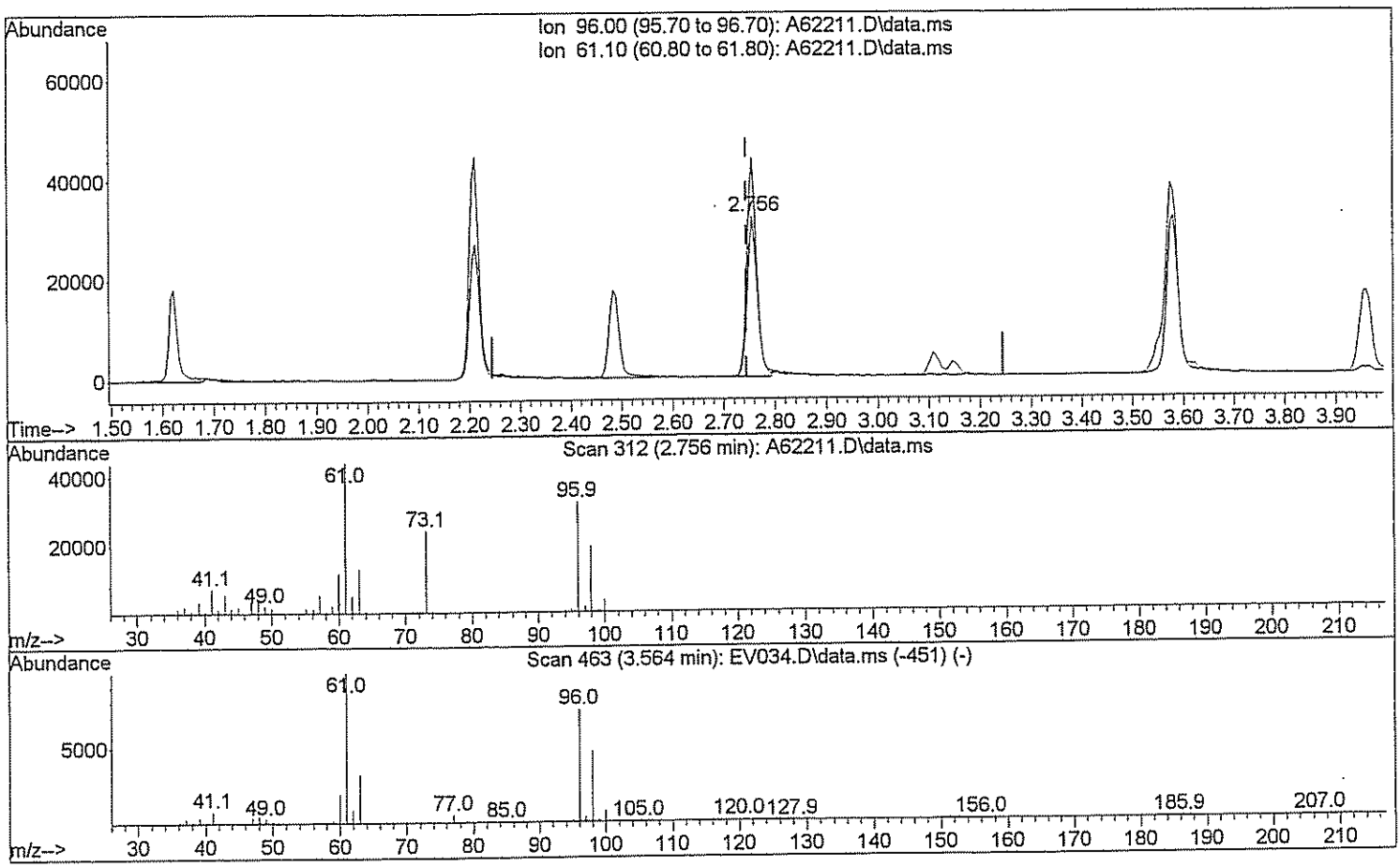
response 41645

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	235.05#
100.00	62.00	0.00#
57.00	40.00	48.75#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.011) 15.74 ug/L

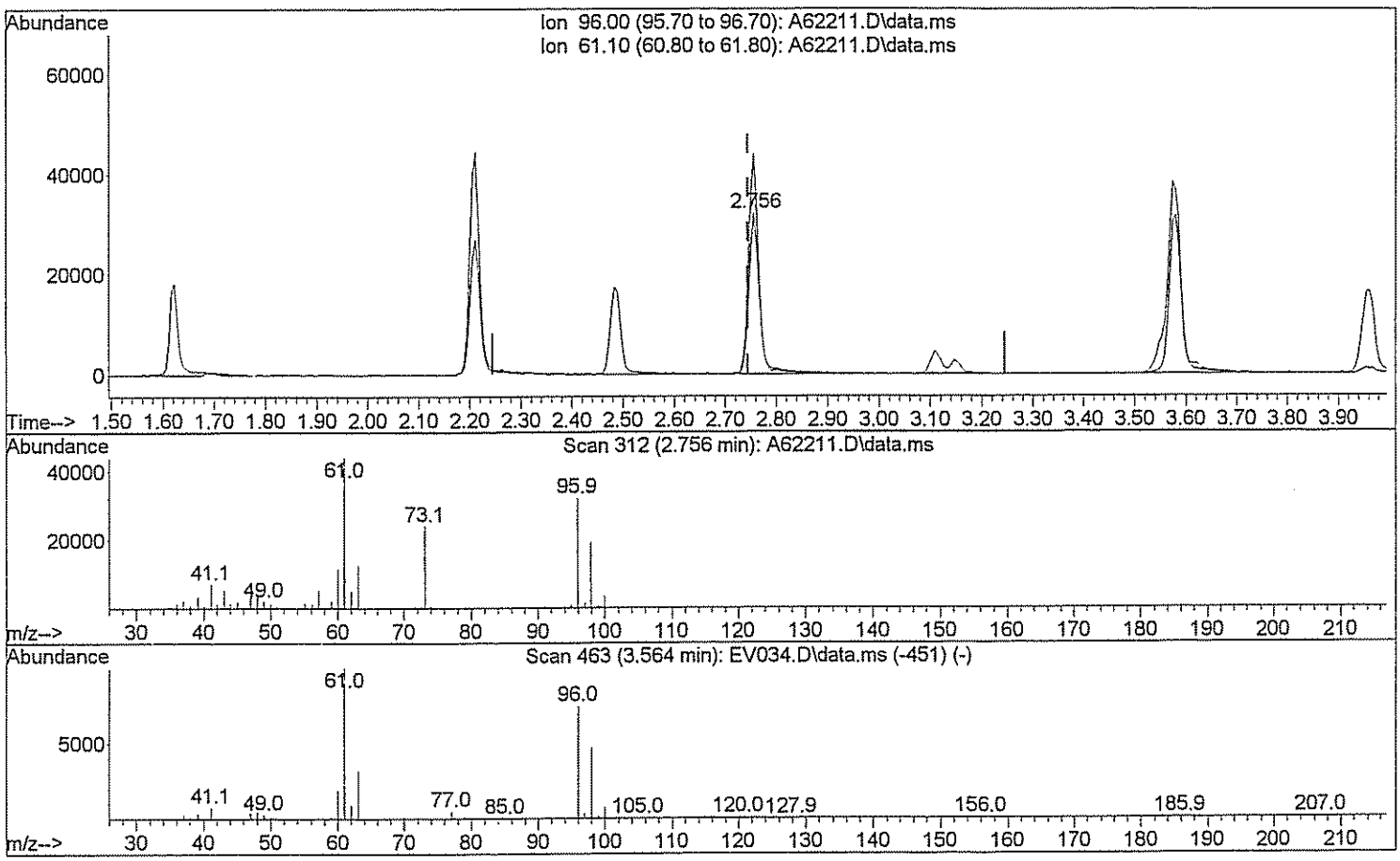
response 43592

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	136.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.011) 35.66 ug/L m DM 3/17/09

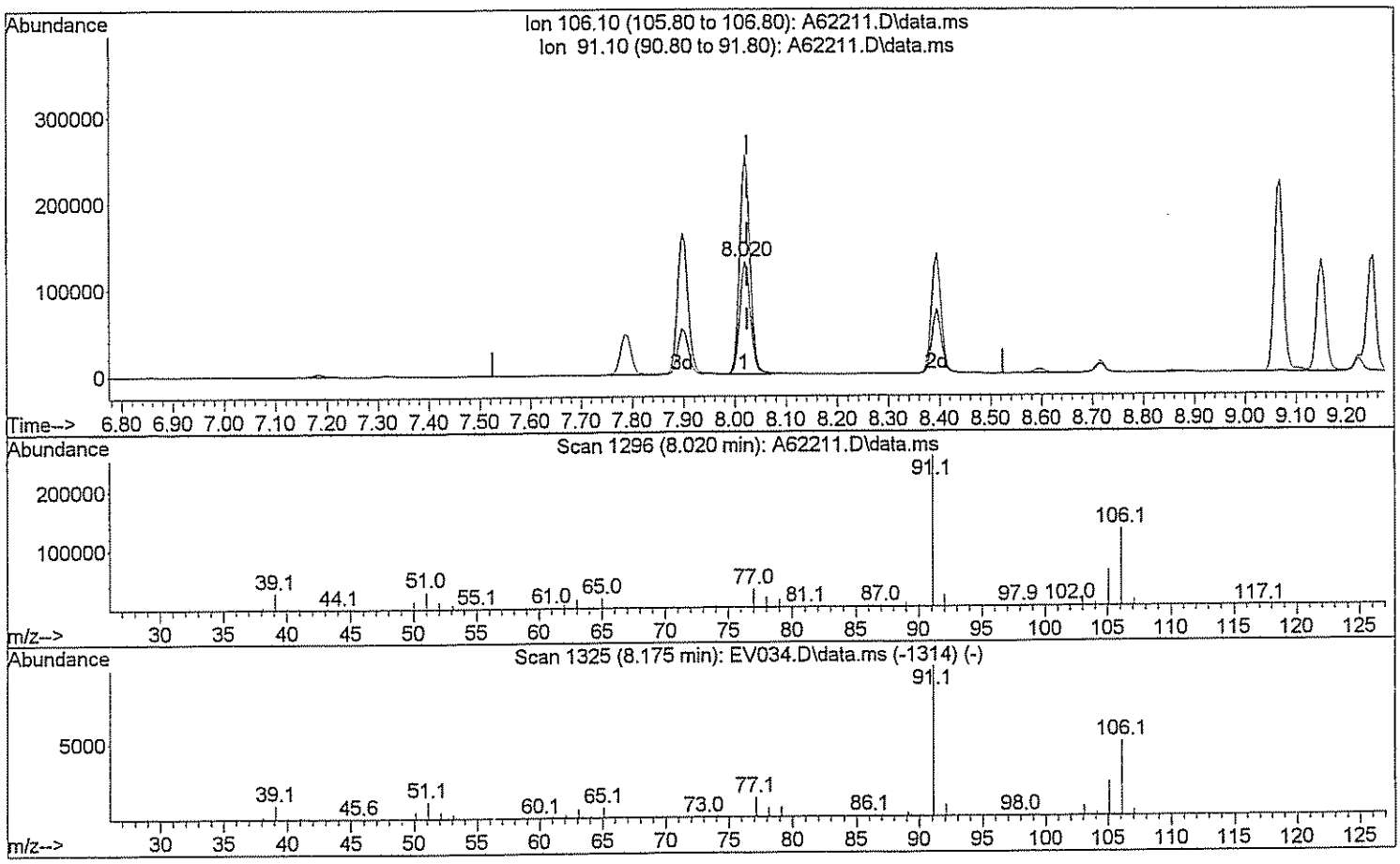
response 98727

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(72) Xylene (Total)

8.020min (-0.005) 35.09 ug/L

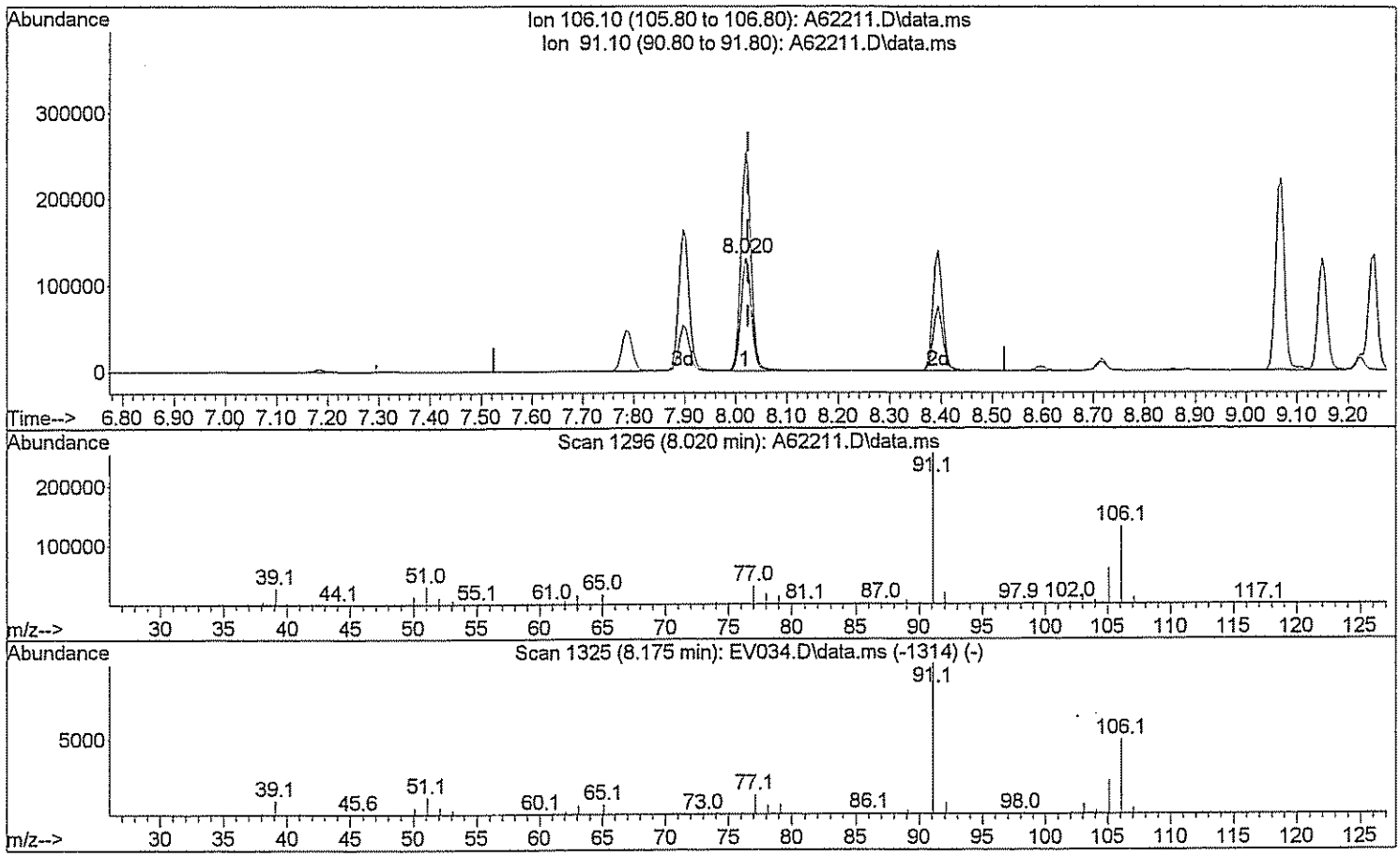
response 187997

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(72) Xylene (Total)

8.020min (-0.005) 52.95 ug/L m

response 283667

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.02#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	517488	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	422933	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	401270	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	136891	50.00	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.00%				
54) Toluene-d8	6.142	98	489895	50.00	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.00%				
76) 4-Bromofluorobenzene	8.881	95	191568	50.00	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.00%				
92) 1,2-Dichlorobenzene-d4	10.085	152	186765	50.00	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 100.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	50493	50.00	ug/L		99
3) Chloromethane	1.333	50	75038	50.00	ug/L		99
4) Vinyl chloride	1.392	62	109090	50.00	ug/L		89
5) Bromomethane	1.616	94	40459	50.00	ug/L		93
6) Chloroethane	1.681	64	73681	50.00	ug/L		98
7) Trichlorofluoromethane	1.830	101	150042	50.00	ug/L		99
8) Ethyl Ether	2.044	59	98047	50.00	ug/L		97
9) Freon 113	2.173	101	85406	50.00	ug/L		88
10) Acrolein	2.189	56	92821	250.00	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	267348	1000.00	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	97387	50.00	ug/L		88
13) Iodomethane	2.328	142	47106	50.00	ug/L		98
14) Acetonitrile	2.478	40	640731	500.00	ug/L	#	1
15) Methylene chloride	2.590	84	116172	50.00	ug/L		97
16) Trans-1,2-dichloroethene	2.750	96	114422	50.00	ug/L		88
17) Isopropyl ether	3.093	45	452281	50.00	ug/L		97
18) 1,1-Dichloroethane	3.104	63	212749	50.00	ug/L		100
19) Acetone	2.296	43	93893	100.00	ug/L		98
20) Methyl Acetate	4.259	43	132527	50.00	ug/L	#	100
21) MTBE	2.740	73	315419	50.00	ug/L		100
22) Carbon disulfide	2.349	76	315893	50.00	ug/L		100
24) Acrylonitrile	2.831	53	172844	250.00	ug/L		100
25) Chloroprene	3.146	53	183033	50.00	ug/L		89
26) n-Heptane	4.436	71	89309m	49.81	ug/L		
27) 2,2-Dichloropropane	3.548	77	172586	50.00	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	130958	50.00	ug/L		95

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.750	96	250709m	99.75	ug/L		
30) Propionitrile	3.735	54	181196	500.00	ug/L		100
31) Bromochloromethane	3.778	128	61344	50.00	ug/L		94
32) Tetrahydrofuran	3.788	72	28703	50.00	ug/L	#	1
33) Chloroform	3.836	83	206436	50.00	ug/L		99
34) Cyclohexane	3.933	56	185439	50.00	ug/L		92
35) 1,1,1-Trichloroethane	3.954	97	172467	50.00	ug/L		100
36) Carbon tetrachloride	4.061	117	150120	50.00	ug/L		97
37) Methacrylonitrile	3.826	41	905465	500.00	ug/L	#	16
38) Methylcyclohexane	4.992	83	172498	50.00	ug/L		93
39) Isobutyl Alcohol	4.436	43	164334	1000.00	ug/L		90
42) 2-Butanone	3.612	43	156619	100.00	ug/L		96
43) 1,1-Dichloropropene	4.099	75	156550	50.00	ug/L		98
44) Vinyl Acetate	3.130	43	169548	50.00	ug/L		98
45) Benzene	4.280	78	472720	50.00	ug/L		100
46) 1,2-Dichloroethane	4.371	62	151934	50.00	ug/L	#	85
47) Trichloroethene	4.885	95	117651	50.00	ug/L		92
48) 1,2-Dichloropropane	5.163	63	126153	50.00	ug/L		93
49) Methyl methacrylate	5.259	69	84950	50.00	ug/L		100
50) Dibromomethane	5.276	93	74340	50.00	ug/L		99
51) Bromodichloromethane	5.431	83	159151	50.00	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	279014	200.00	ug/L		97
53) Cis-1,3-dichloropropene	5.912	75	198463	50.00	ug/L		99
55) Toluene	6.217	92	313028	50.00	ug/L		100
56) Trans-1,3-dichloropropene	6.570	75	182970	50.00	ug/L		97
57) Ethyl methacrylate	6.624	69	154204	50.00	ug/L		95
58) 1,1,2-Trichloroethane	6.773	83	93153	50.00	ug/L		99
60) 4-Methyl-2-pentanone	6.094	43	257968	100.00	ug/L		99
61) 2-Hexanone	7.062	43	190783	100.00	ug/L		98
62) Tetrachloroethene	6.789	166	122244	50.00	ug/L		95
63) 1,3-Dichloropropane	6.971	76	181121	50.00	ug/L		92
64) Dibromochloromethane	7.185	129	129242	50.00	ug/L		98
65) 1,2-Dibromoethane	7.314	107	108267	50.00	ug/L		97
66) 1-Chlorohexane	7.785	91	175461	50.00	ug/L		92
67) Chlorobenzene	7.806	112	363383	50.00	ug/L		89
68) 1,1,1,2-Tetrachloroethane	7.908	131	131724	50.00	ug/L		98
69) Ethylbenzene	7.897	91	604763	50.00	ug/L		98
70) m,p-Xylene	8.020	106	496360	100.00	ug/L		90
71) o-Xylene	8.394	106	241033	50.00	ug/L		93
72) Xylene (Total)	8.020	106	737592m	149.98	ug/L		
73) Styrene	8.421	104	410712	50.00	ug/L		95
74) Bromoform	8.598	173	85091	50.00	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

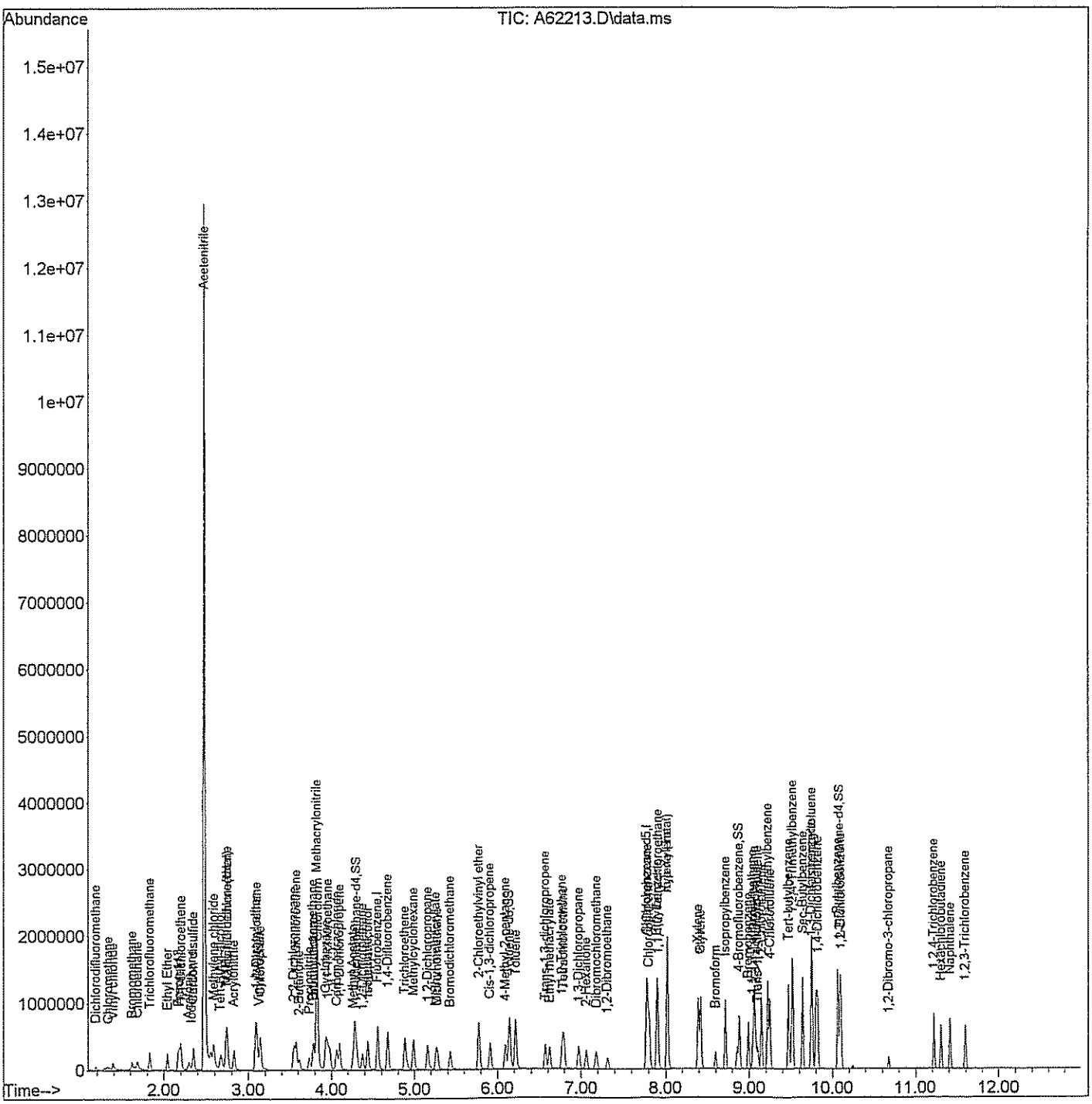
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	521416	50.00	ug/L		97
77) Bromobenzene	8.994	156	142716	50.00	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	142875	50.00	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	41981	50.00	ug/L		97
80) n-Propylbenzene	9.063	91	719141	50.00	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	43806	50.00	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	154063	50.00	ug/L		86
83) 4-Chlorotoluene	9.250	126	156819	50.00	ug/L		92
84) 1,3,5-Trimethylbenzene	9.224	105	514134	50.00	ug/L		95
85) Tert-butylbenzene	9.470	119	450241	50.00	ug/L		97
87) 1,2,4-Trimethylbenzene	9.518	105	528715	50.00	ug/L		93
88) Sec-Butylbenzene	9.641	105	692528	50.00	ug/L		99
89) 1,3-Dichlorobenzene	9.743	146	296768	50.00	ug/L		98
90) 4-Isopropyltoluene	9.753	119	604752	50.00	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	300653	50.00	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	276122	50.00	ug/L		97
94) n-Butylbenzene	10.058	91	560174	50.00	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	24817	50.00	ug/L	#	78
96) 1,2,4-Trichlorobenzene	11.219	180	167452	50.00	ug/L		99
97) Hexachlorobutadiene	11.305	225	78952	50.00	ug/L		100
98) Naphthalene	11.412	128	442312	50.00	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	145394	50.00	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

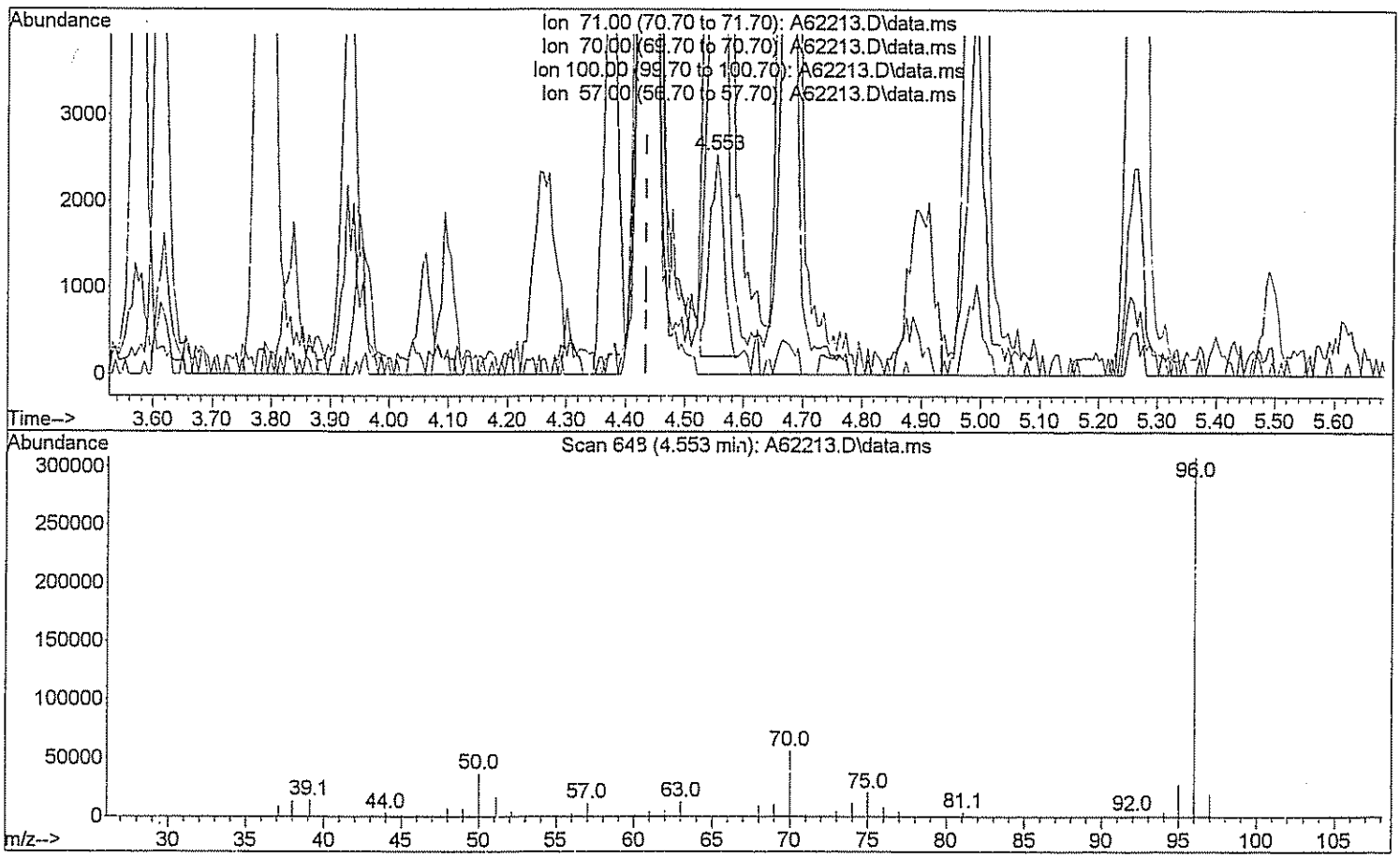
Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.13 ug/L

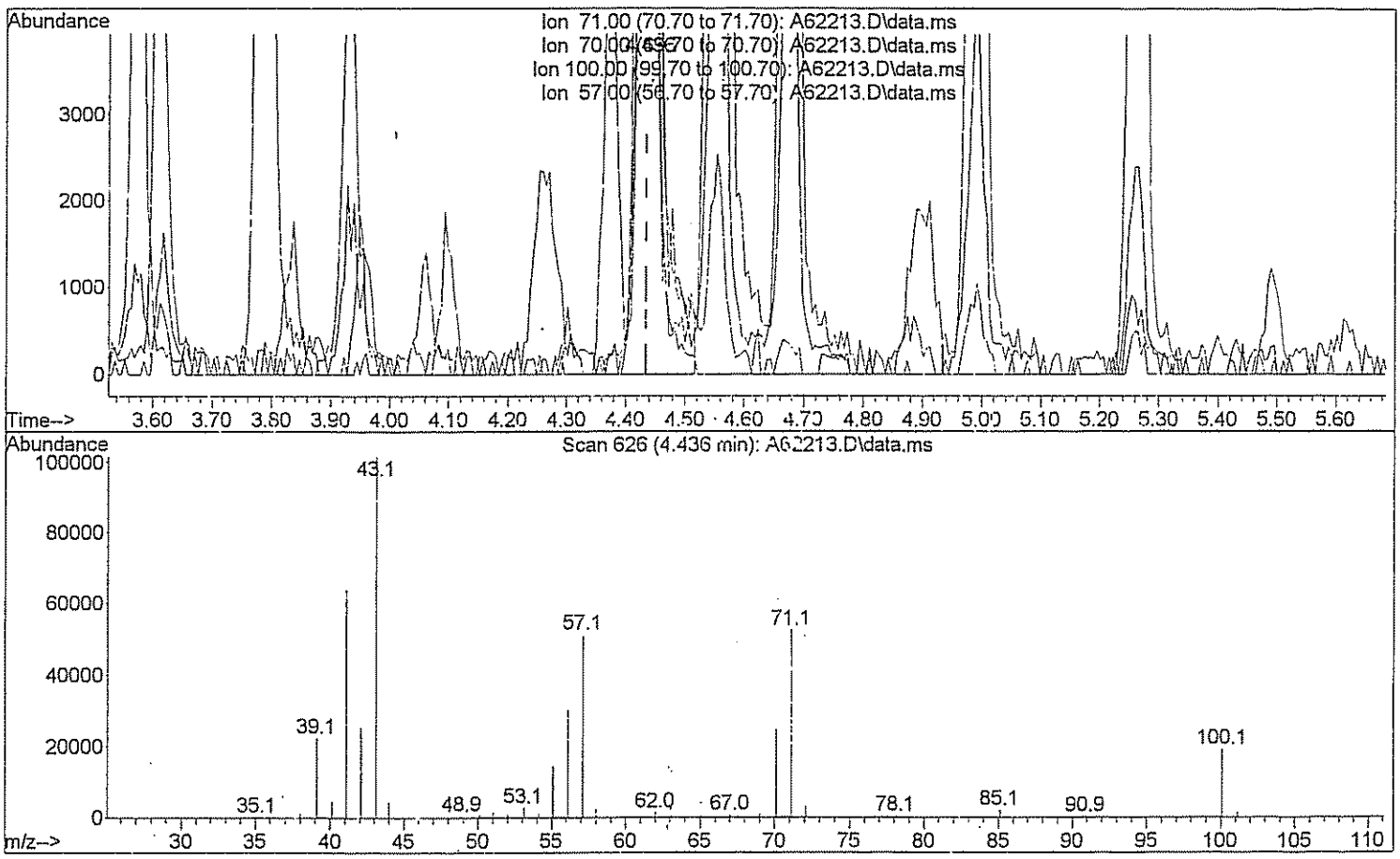
response 3811

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2353.53#
100.00	62.00	0.00#
57.00	40.00	501.02#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(26) n-Heptane (T)

4.436min (0.000) 49.81 ug/L m

Sm 3/16/09

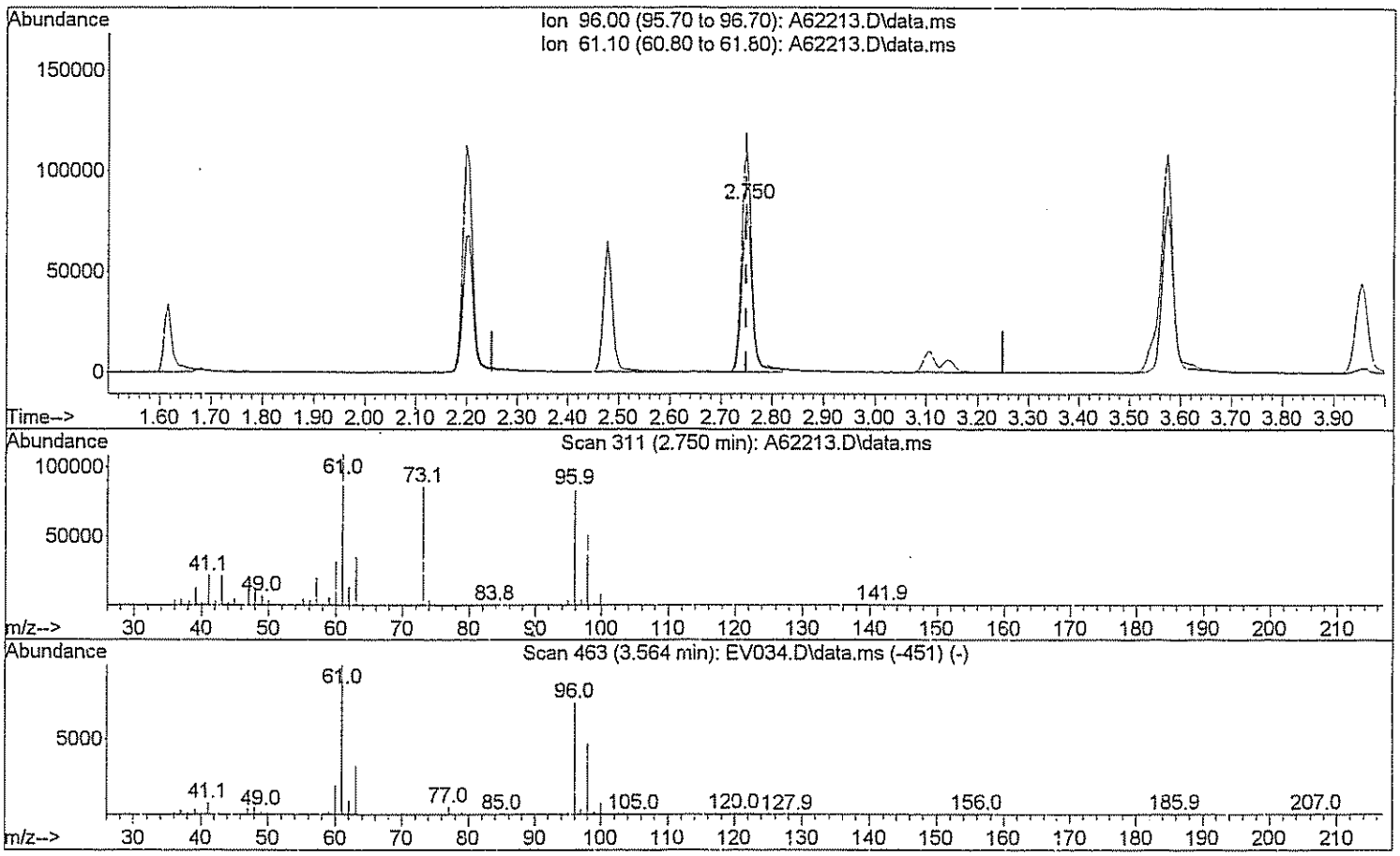
response 89309

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	100.43#
100.00	62.00	0.00#
57.00	40.00	21.38#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (0.000) 45.53 ug/L

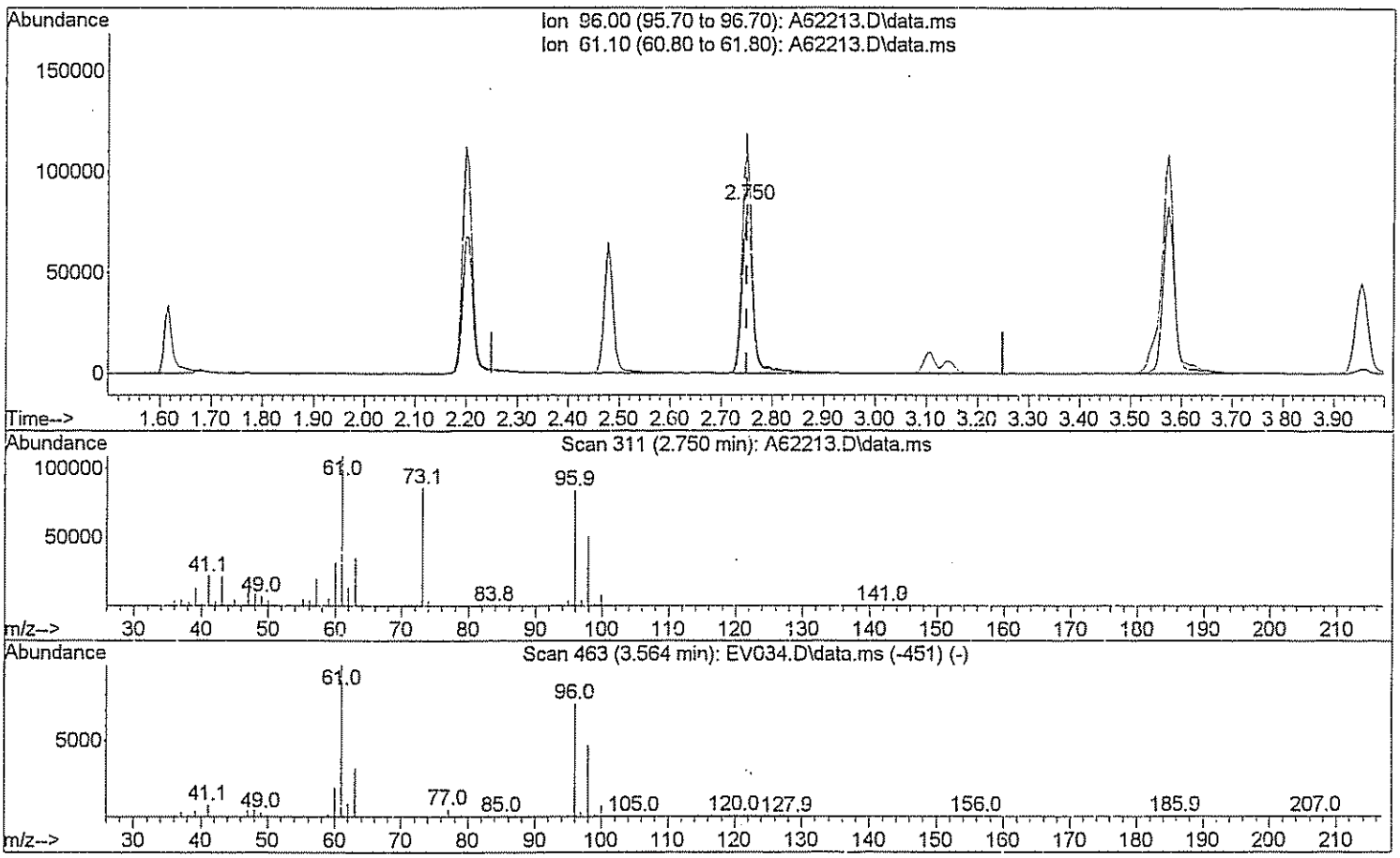
response 114422

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (0.000) 99.75 ug/L m JM 3/16/09

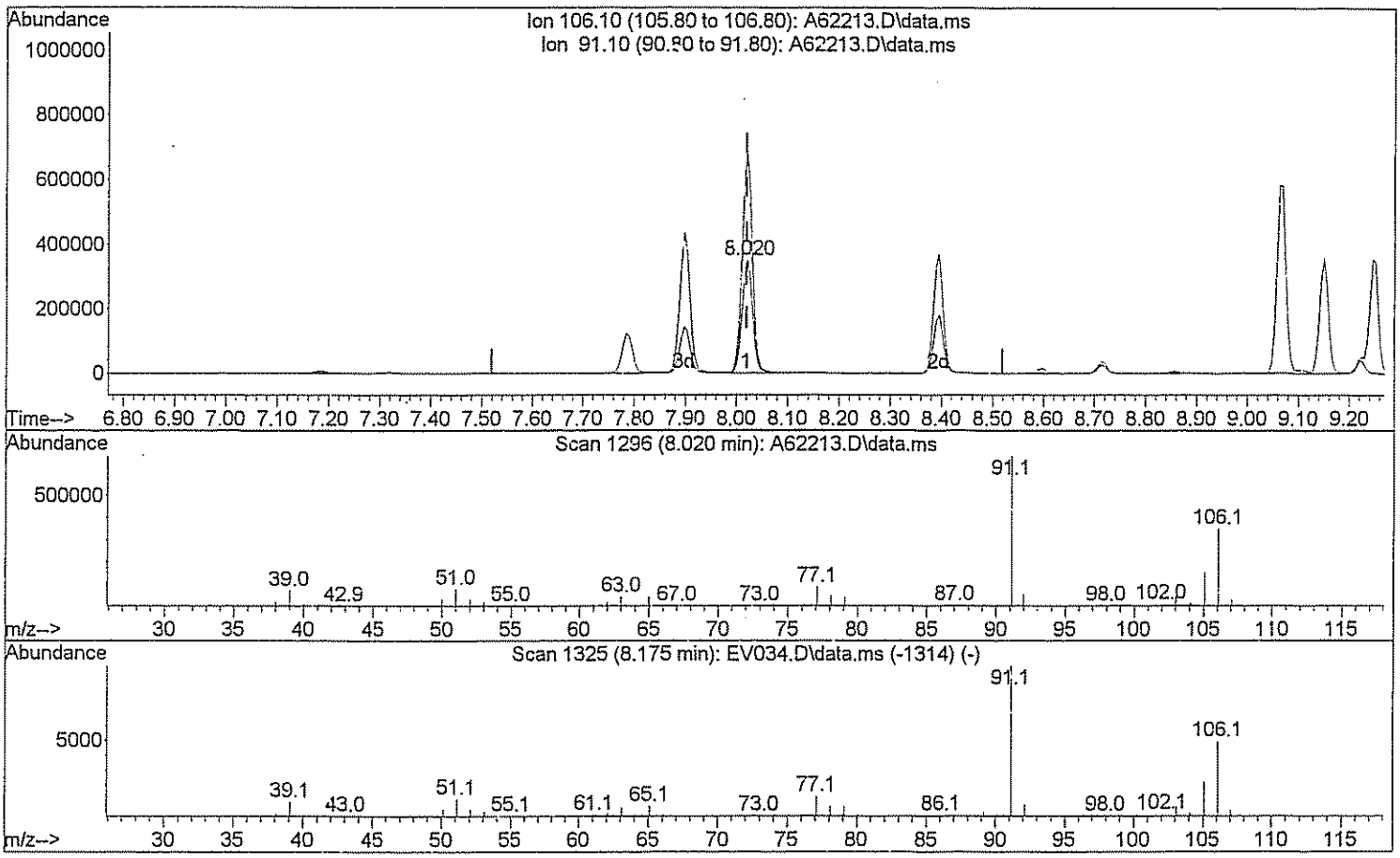
response 250709

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	63.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 100.93 ug/L

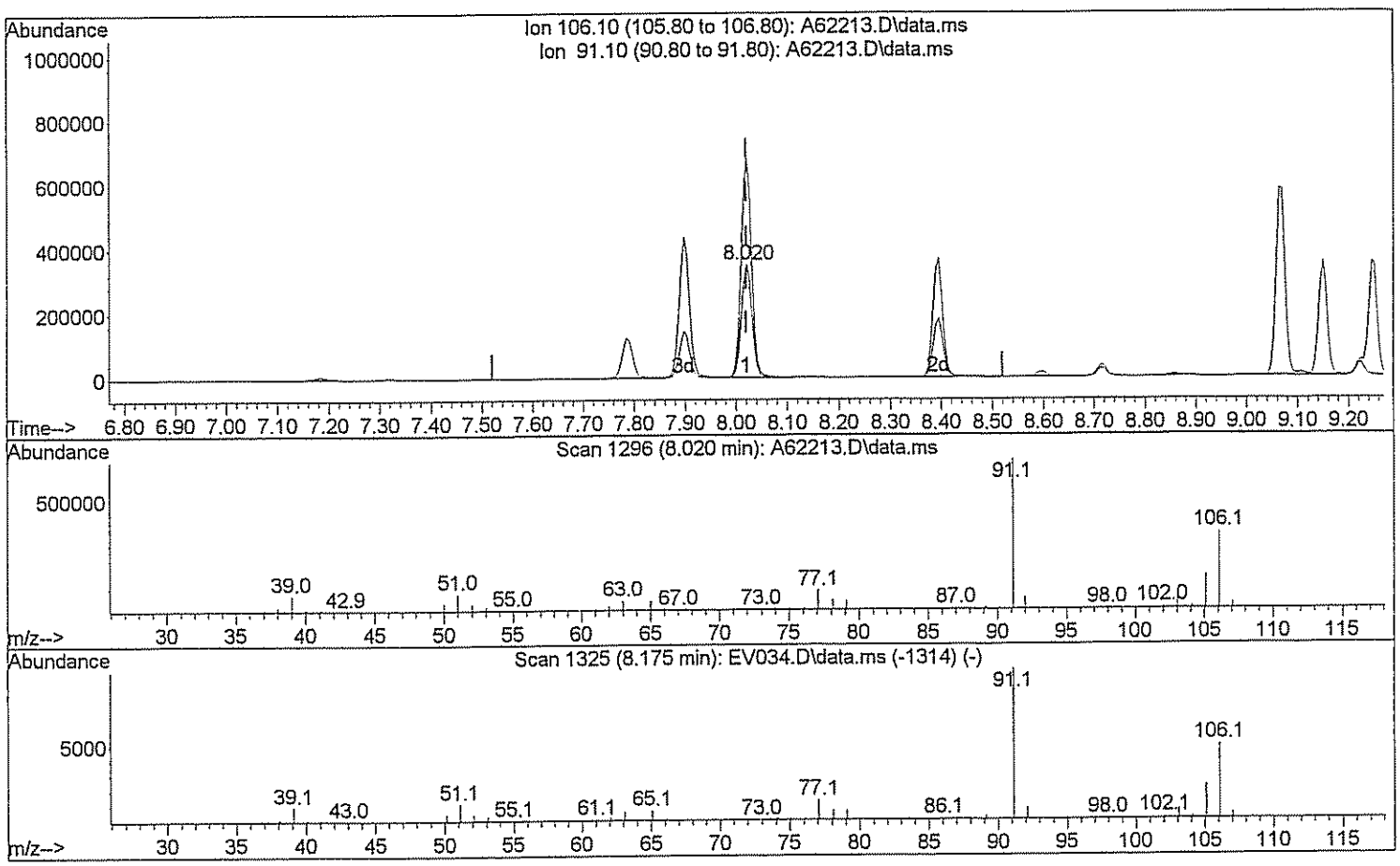
response 496360

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 149.98 ug/L m

3/16/09

response 737592

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.33#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	488113	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	402895	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	382461	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	129184	50.02	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.04%				
54) Toluene-d8	6.142	98	474149	50.80	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 101.60%				
76) 4-Bromofluorobenzene	8.881	95	182324	49.93	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.86%				
92) 1,2-Dichlorobenzene-d4	10.090	152	186080m	52.27	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 104.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	101899	106.98	ug/L		99
3) Chloromethane	1.327	50	155403	109.78	ug/L		99
4) Vinyl chloride	1.392	62	209191	101.65	ug/L		97
5) Bromomethane	1.616	94	111043	145.49	ug/L		87
6) Chloroethane	1.681	64	137679	99.05	ug/L		93
7) Trichlorofluoromethane	1.825	101	300088	106.02	ug/L		98
8) Ethyl Ether	2.044	59	183503	99.21	ug/L		96
9) Freon 113	2.173	101	180697	112.15	ug/L		89
10) Acrolein	2.189	56	170559	487.02	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	410388	1627.41	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	188294	102.49	ug/L		90
13) Iodomethane	2.328	142	241226	271.45	ug/L		98
14) Acetonitrile	2.478	40	1358379	1123.82	ug/L	#	1
15) Methylene chloride	2.590	84	229545	104.74	ug/L		100
16) Trans-1,2-dichloroethene	2.750	96	224781	104.14	ug/L		88
17) Isopropyl ether	3.093	45	872545	102.27	ug/L		100
18) 1,1-Dichloroethane	3.109	63	420716	104.83	ug/L		98
19) Acetone	2.301	43	164150	185.35	ug/L		96
20) Methyl Acetate	4.264	43	66527	26.61	ug/L	#	100
21) MTBE	2.740	73	589661	99.10	ug/L		100
22) Carbon disulfide	2.349	76	627594	105.31	ug/L		100
24) Acrylonitrile	2.836	53	303172	464.89	ug/L		100
25) Chloroprene	3.146	53	388959	112.65	ug/L		91
26) n-Heptane	4.436	71	179679m	106.65	ug/L		
27) 2,2-Dichloropropane	3.553	77	331997	101.97	ug/L	#	74
28) Cis-1,2-dichloroethene	3.580	96	256374	103.77	ug/L		97

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	484745m	204.99	ug/L		
30) Propionitrile	3.740	54	307367	899.20	ug/L		100
31) Bromochloromethane	3.783	128	119161	102.97	ug/L		91
32) Tetrahydrofuran	3.794	72	47686	88.07	ug/L	#	1
33) Chloroform	3.842	83	435779	111.90	ug/L		97
34) Cyclohexane	3.933	56	385205	110.11	ug/L		94
35) 1,1,1-Trichloroethane	3.960	97	334582	102.84	ug/L		98
36) Carbon tetrachloride	4.061	117	302357	106.77	ug/L		99
37) Methacrylonitrile	3.831	41	1721571	1007.87	ug/L	#	20
38) Methylcyclohexane	4.992	83	363723	111.77	ug/L		93
39) Isobutyl Alcohol	4.436	43	336613	2171.62	ug/L		89
42) 2-Butanone	3.617	43	268048	179.66	ug/L		98
43) 1,1-Dichloropropene	4.099	75	303893	101.89	ug/L		98
44) Vinyl Acetate	3.136	43	317561	98.31	ug/L		100
45) Benzene	4.281	78	931840	103.46	ug/L		100
46) 1,2-Dichloroethane	4.377	62	290421m	100.33	ug/L		
47) Trichloroethene	4.885	95	232664	103.80	ug/L		92
48) 1,2-Dichloropropane	5.163	63	245860	102.29	ug/L		97
49) Methyl methacrylate	5.265	69	148916	92.01	ug/L		96
50) Dibromomethane	5.281	93	138697	97.93	ug/L		98
51) Bromodichloromethane	5.431	83	302833	99.87	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	184535	138.86	ug/L		97
53) Cis-1,3-dichloropropene	5.918	75	379910	100.47	ug/L		98
55) Toluene	6.217	92	614952	103.11	ug/L		97
56) Trans-1,3-dichloropropene	6.570	75	335781	96.32	ug/L		98
57) Ethyl methacrylate	6.624	69	288818	98.31	ug/L		96
58) 1,1,2-Trichloroethane	6.773	83	175100	98.66	ug/L		97
60) 4-Methyl-2-pentanone	6.099	43	441380	179.51	ug/L		99
61) 2-Hexanone	7.068	43	327869	180.31	ug/L		99
62) Tetrachloroethene	6.795	166	248012	106.43	ug/L		95
63) 1,3-Dichloropropane	6.977	76	337277	97.69	ug/L		92
64) Dibromochloromethane	7.185	129	247971	100.65	ug/L		99
65) 1,2-Dibromoethane	7.319	107	203221	98.47	ug/L		98
66) 1-Chlorohexane	7.790	91	337355	100.86	ug/L		92
67) Chlorobenzene	7.811	112	714834	103.20	ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.908	131	261629	104.19	ug/L		96
69) Ethylbenzene	7.902	91	1209808	104.94	ug/L		99
70) m,p-Xylene	8.025	106	991494	209.58	ug/L		90
71) o-Xylene	8.394	106	476964	103.81	ug/L		93
72) Xylene (Total)	8.025	106	1471853m	314.04	ug/L		
73) Styrene	8.427	104	812237	103.74	ug/L		95
74) Bromoform	8.598	173	152829	94.22	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

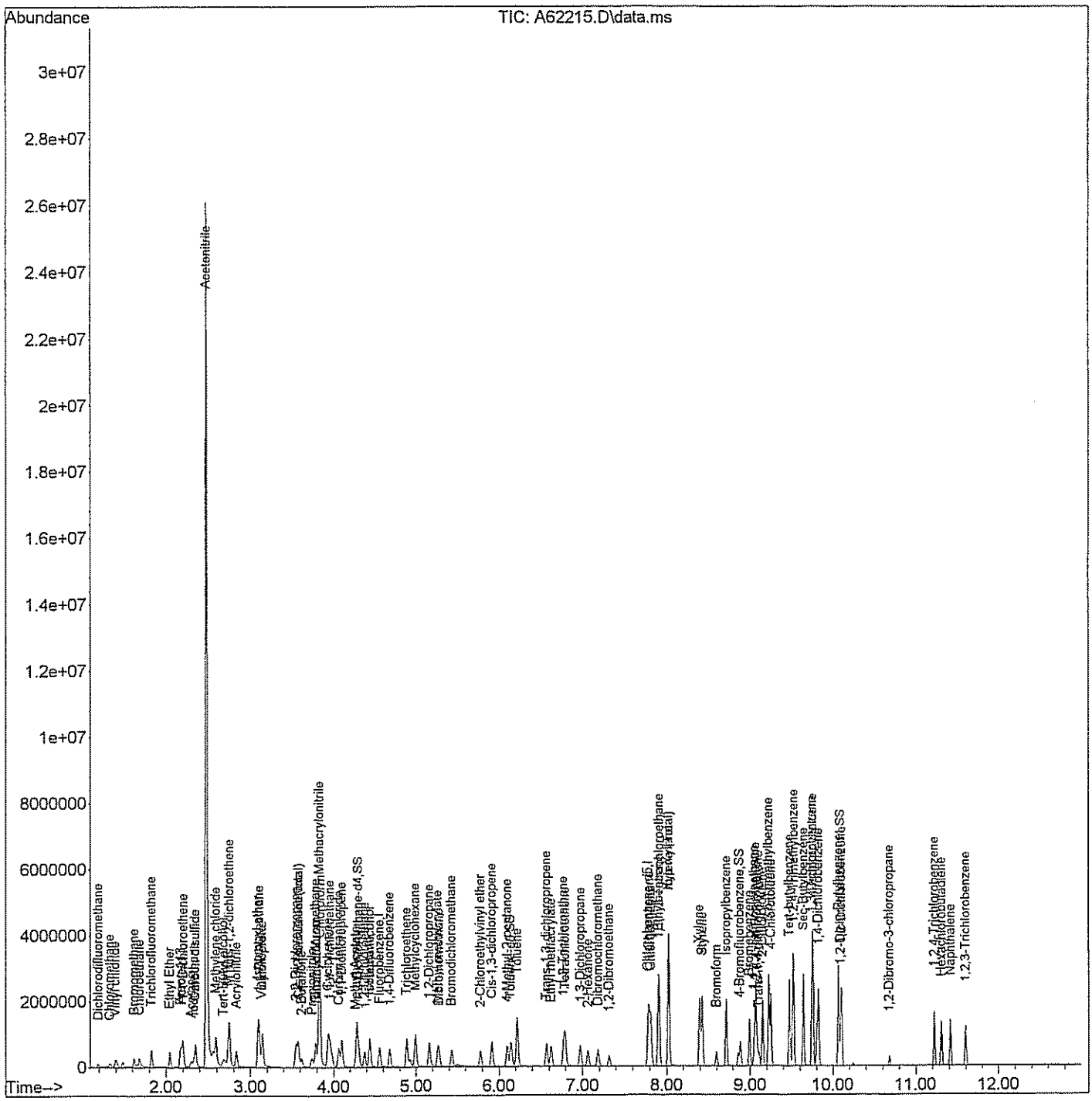
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	1046010	105.24	ug/L		99
77) Bromobenzene	8.994	156	282960	104.01	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.052	83	259312	95.21	ug/L		100
79) 1,2,3-Trichloropropane	9.085	110	75218	93.99	ug/L		99
80) n-Propylbenzene	9.068	91	1417344	103.39	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	56785	68.00	ug/L	#	23
82) 2-Chlorotoluene	9.154	126	296723	101.04	ug/L		89
83) 4-Chlorotoluene	9.250	126	310968	104.02	ug/L		93
84) 1,3,5-Trimethylbenzene	9.224	105	1047309	106.86	ug/L		95
85) Tert-butylbenzene	9.470	119	914746	106.58	ug/L		96
87) 1,2,4-Trimethylbenzene	9.523	105	1084517	107.61	ug/L		94
88) Sec-Butylbenzene	9.641	105	1404375	106.38	ug/L		99
89) 1,3-Dichlorobenzene	9.748	146	614964	108.71	ug/L		99
90) 4-Isopropyltoluene	9.759	119	1255344	108.89	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	612216	106.82	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	578388	109.88	ug/L		99
94) n-Butylbenzene	10.064	91	1147680	107.48	ug/L		96
95) 1,2-Dibromo-3-chloropr...	10.679	75	43888	92.77	ug/L	#	78
96) 1,2,4-Trichlorobenzene	11.224	180	346038	108.41	ug/L		98
97) Hexachlorobutadiene	11.305	225	164609	109.37	ug/L		98
98) Naphthalene	11.412	128	790325	93.73	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	284128	102.51	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

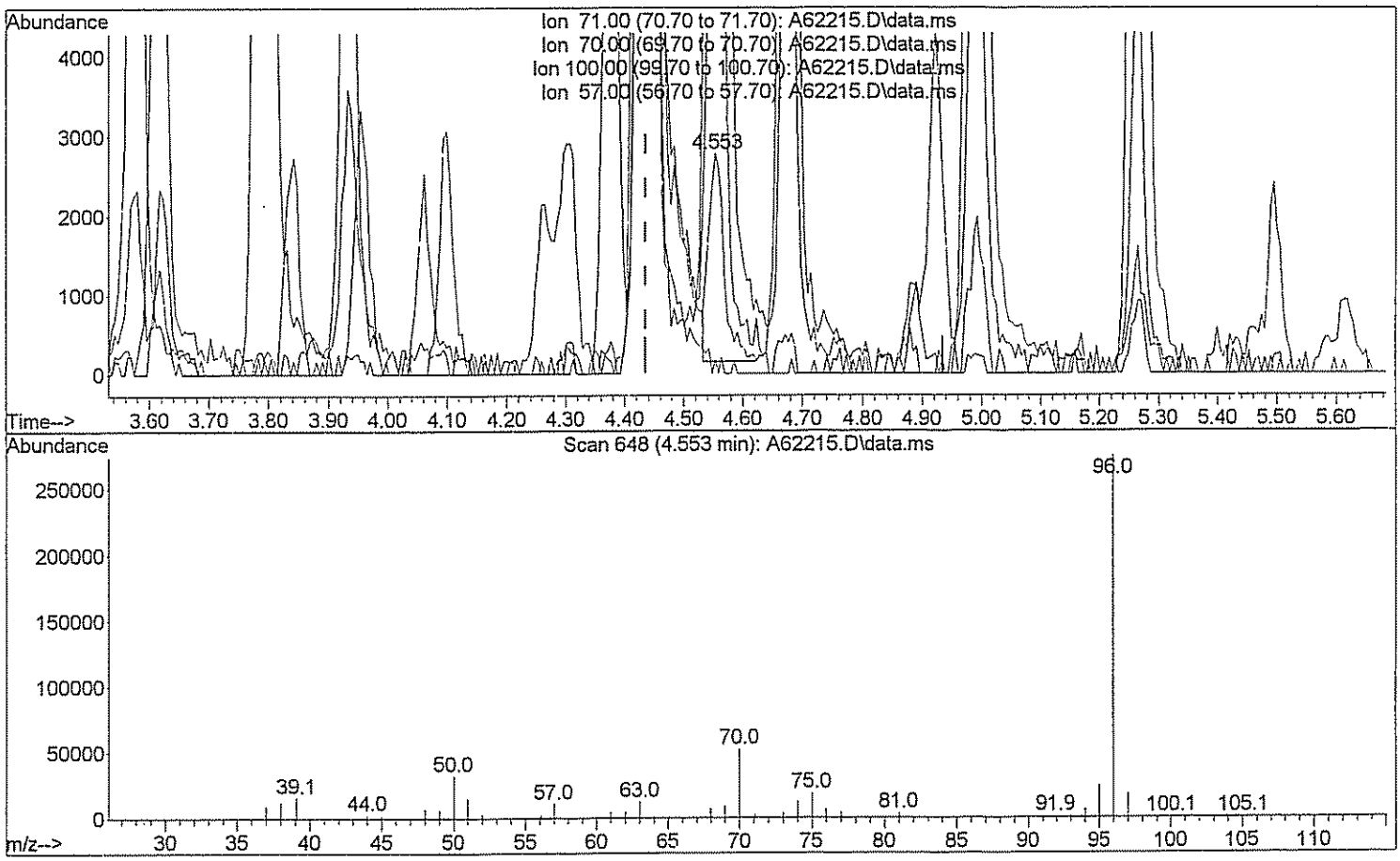
Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.89 ug/L

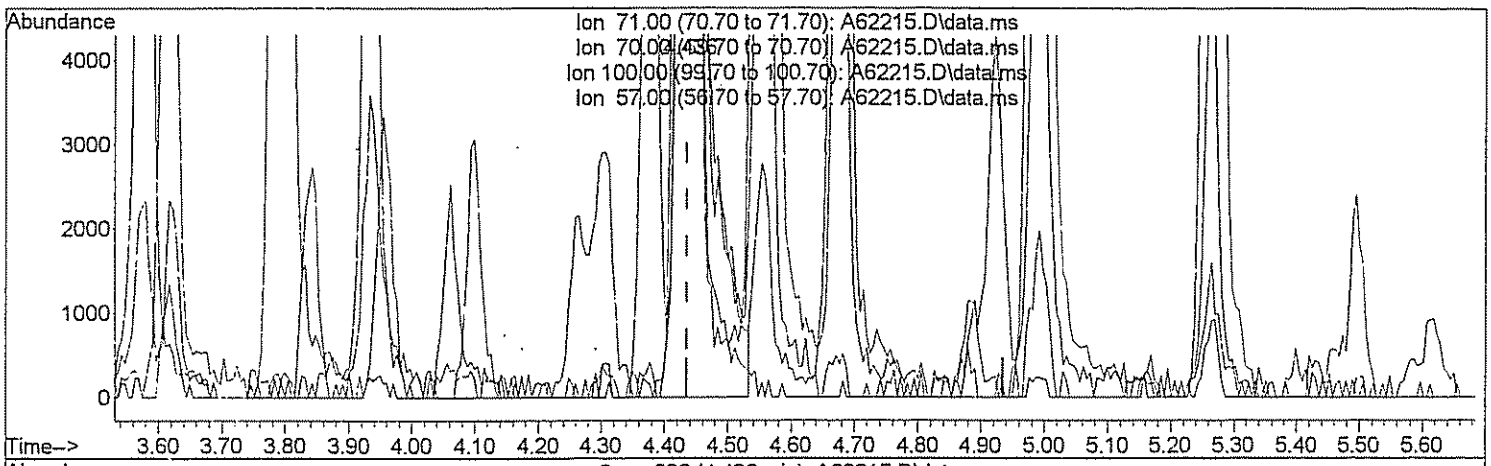
response 4871

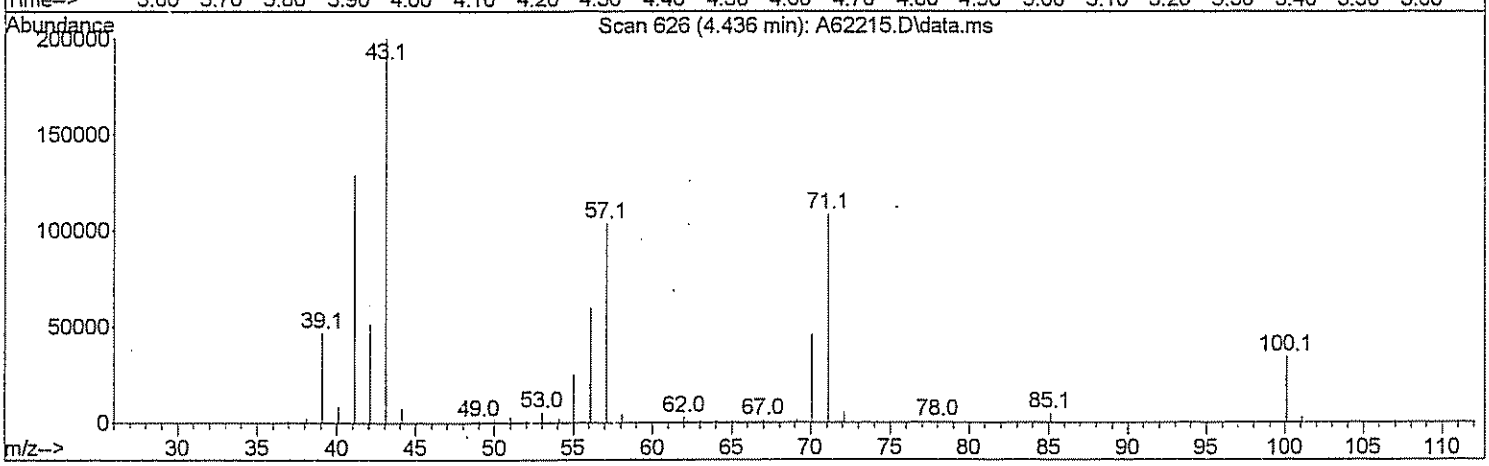
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1781.01#
100.00	62.00	0.00#
57.00	40.00	395.26#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration





TIC: A62215.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 106.65 ug/L m SW 3/16/09

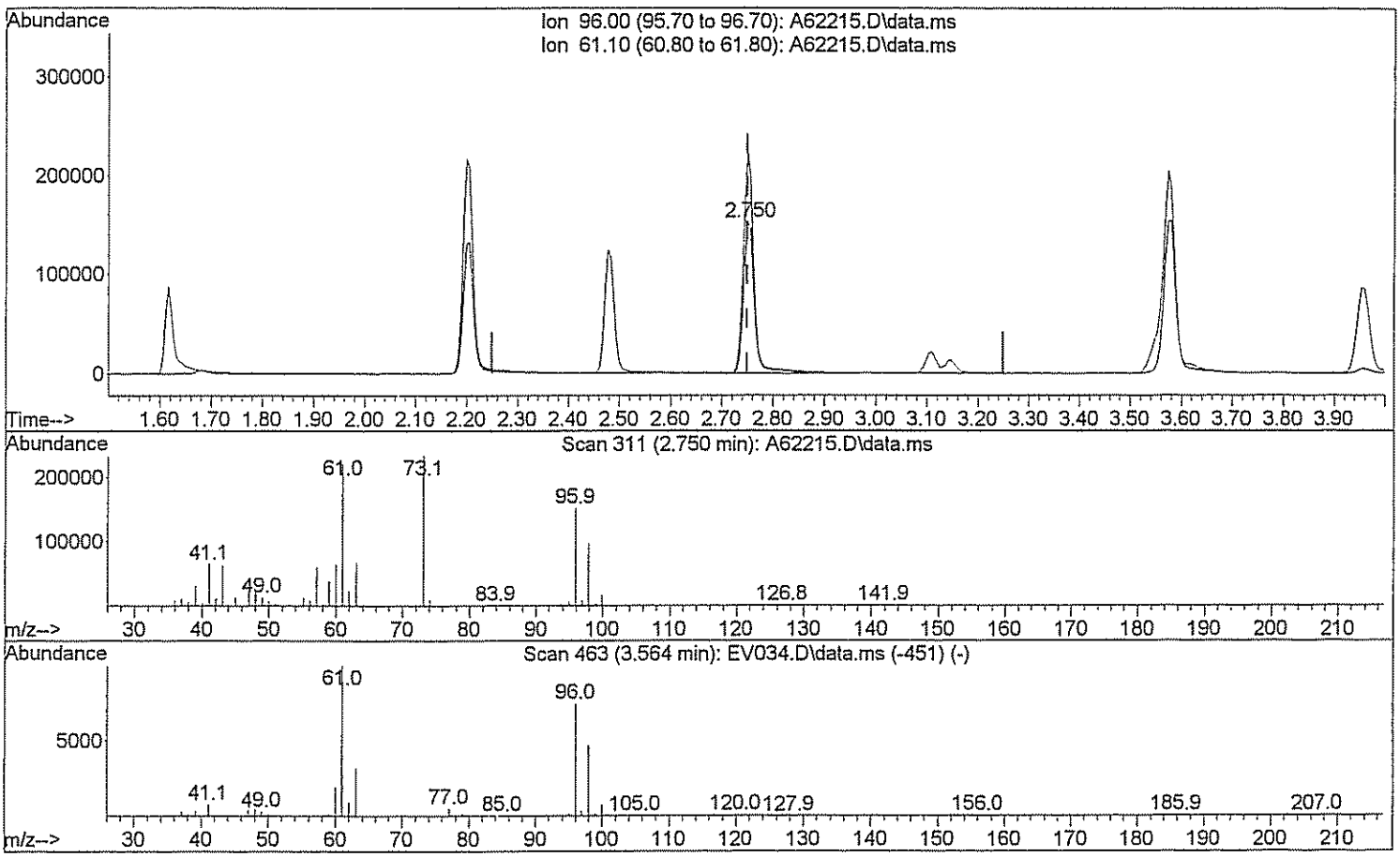
response 179679

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	48.28#
100.00	62.00	0.00#
57.00	40.00	10.72#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (+0.000) 95.05 ug/L

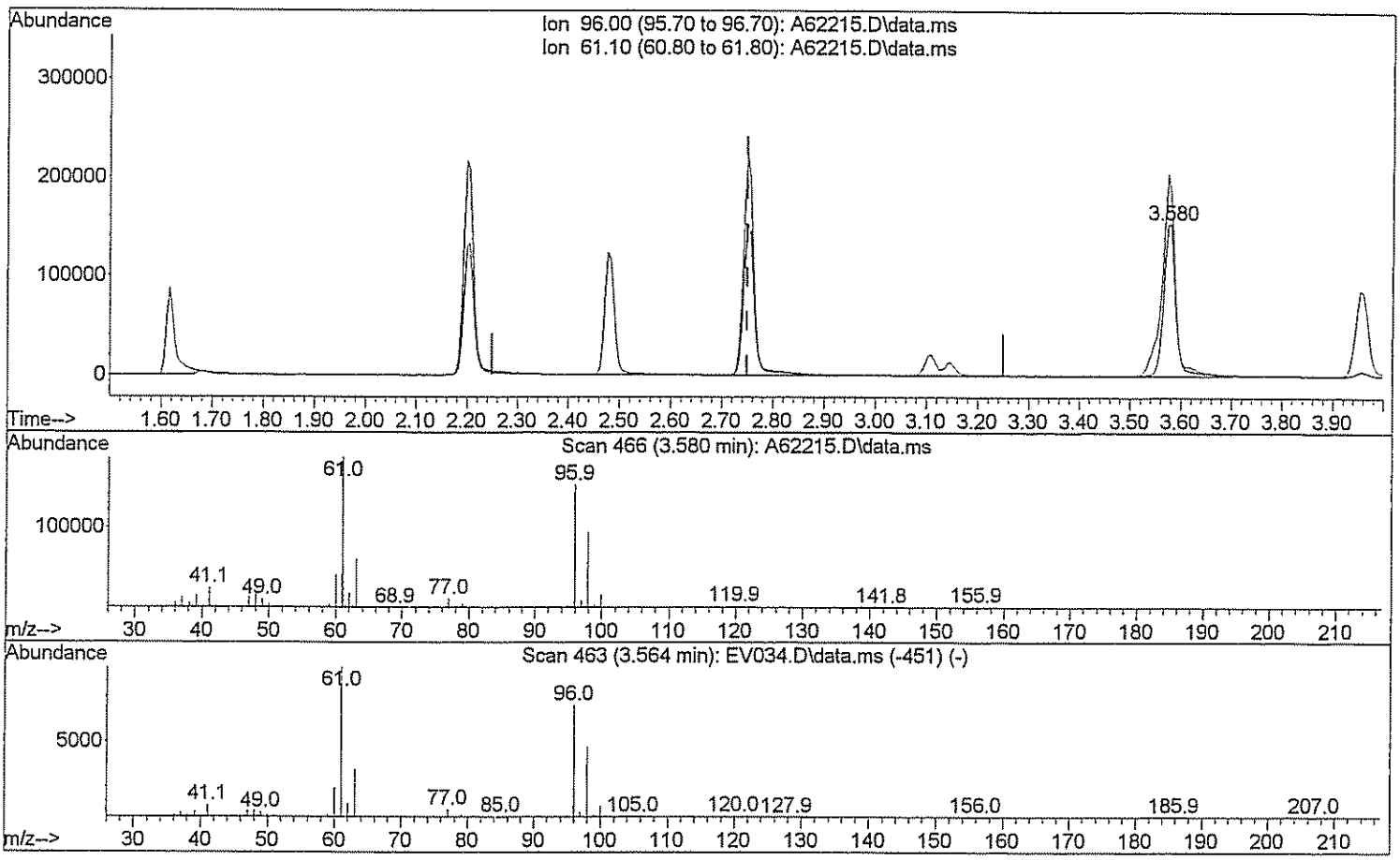
response 224781

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.829) 204.99 ug/L m DW3/16/09

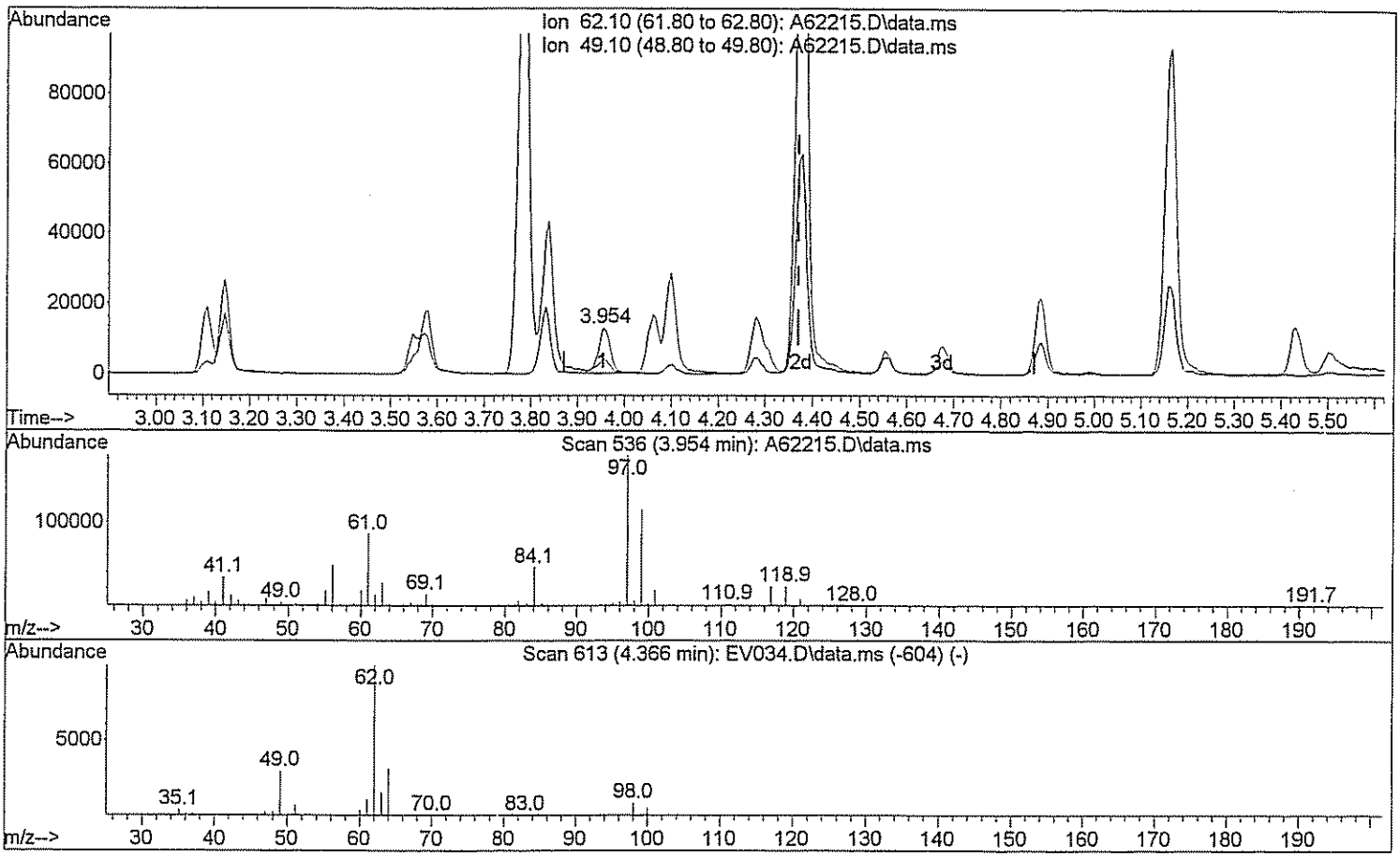
response 484745

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	64.83#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(46) 1,2-Dichloroethane

3.954min (-0.417) 7.81 ug/L

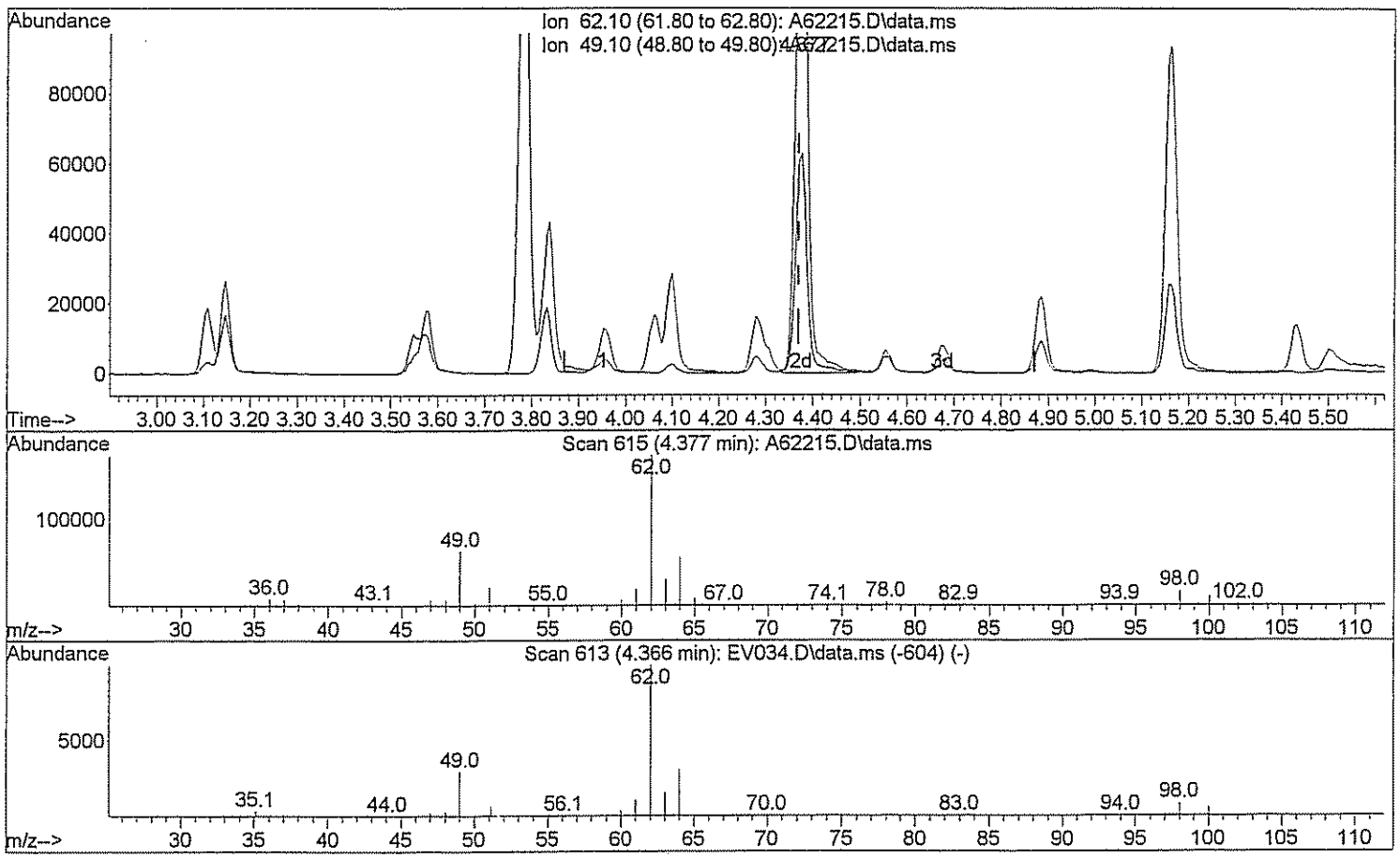
response 22614

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	33.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(46) 1,2-Dichloroethane

4.377min (+0.005) 100.33 ug/L m DW 3/16/09

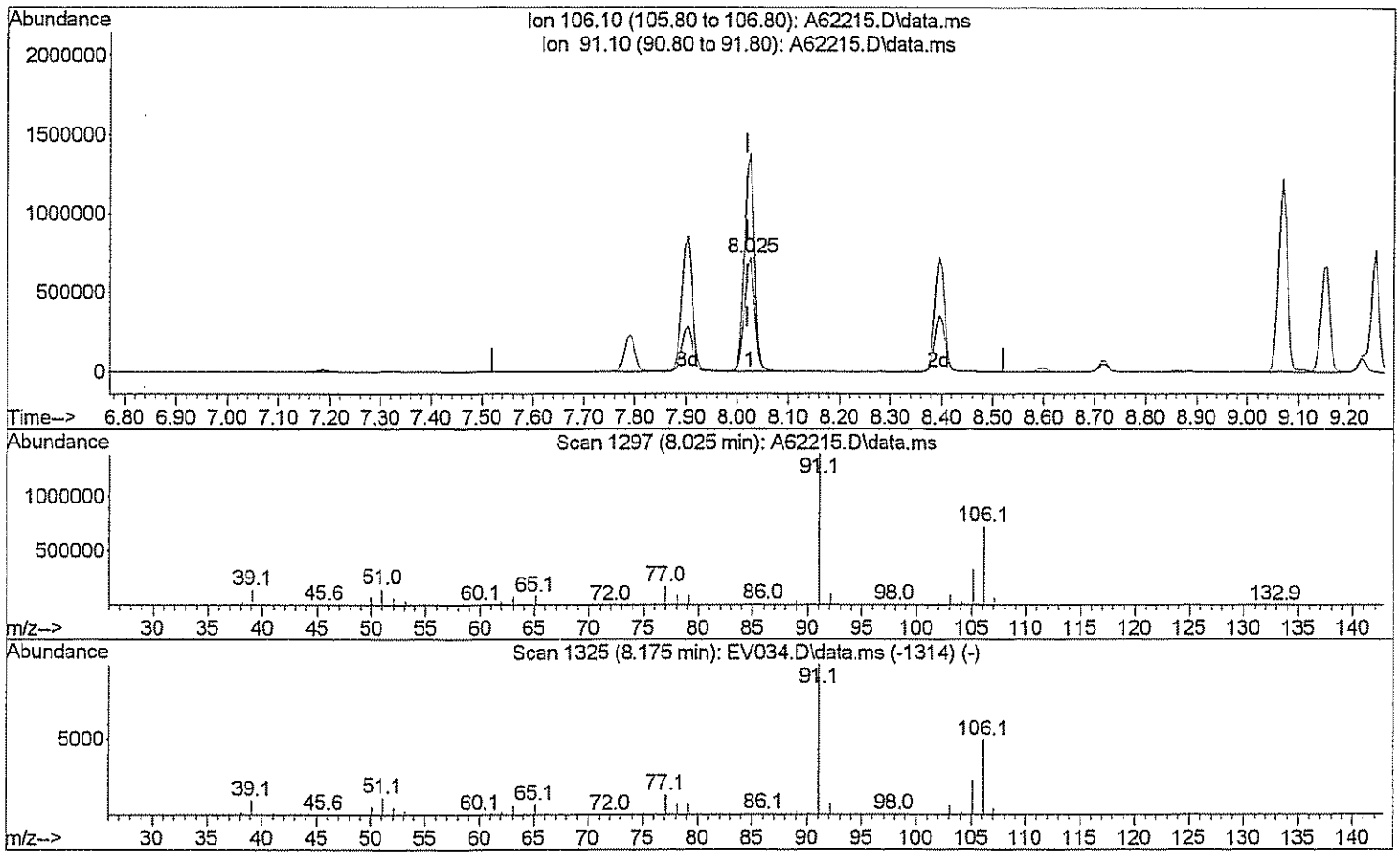
response 290421

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(72) Xylene (Total)

8.025min (+0.005) 211.55 ug/L

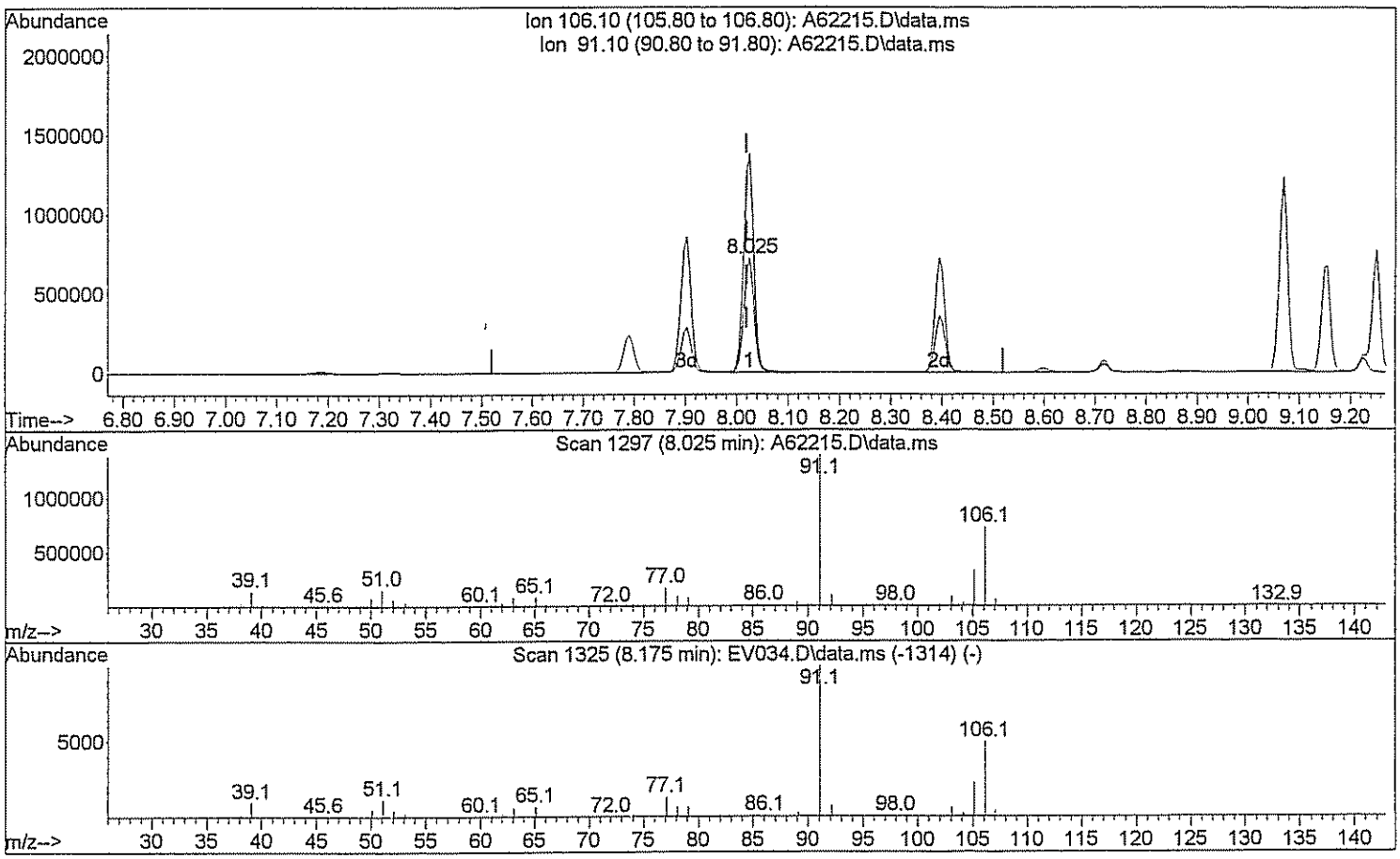
response 991494

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(72) Xylene (Total)

8.025min (+0.005) 314.04 ug/L m

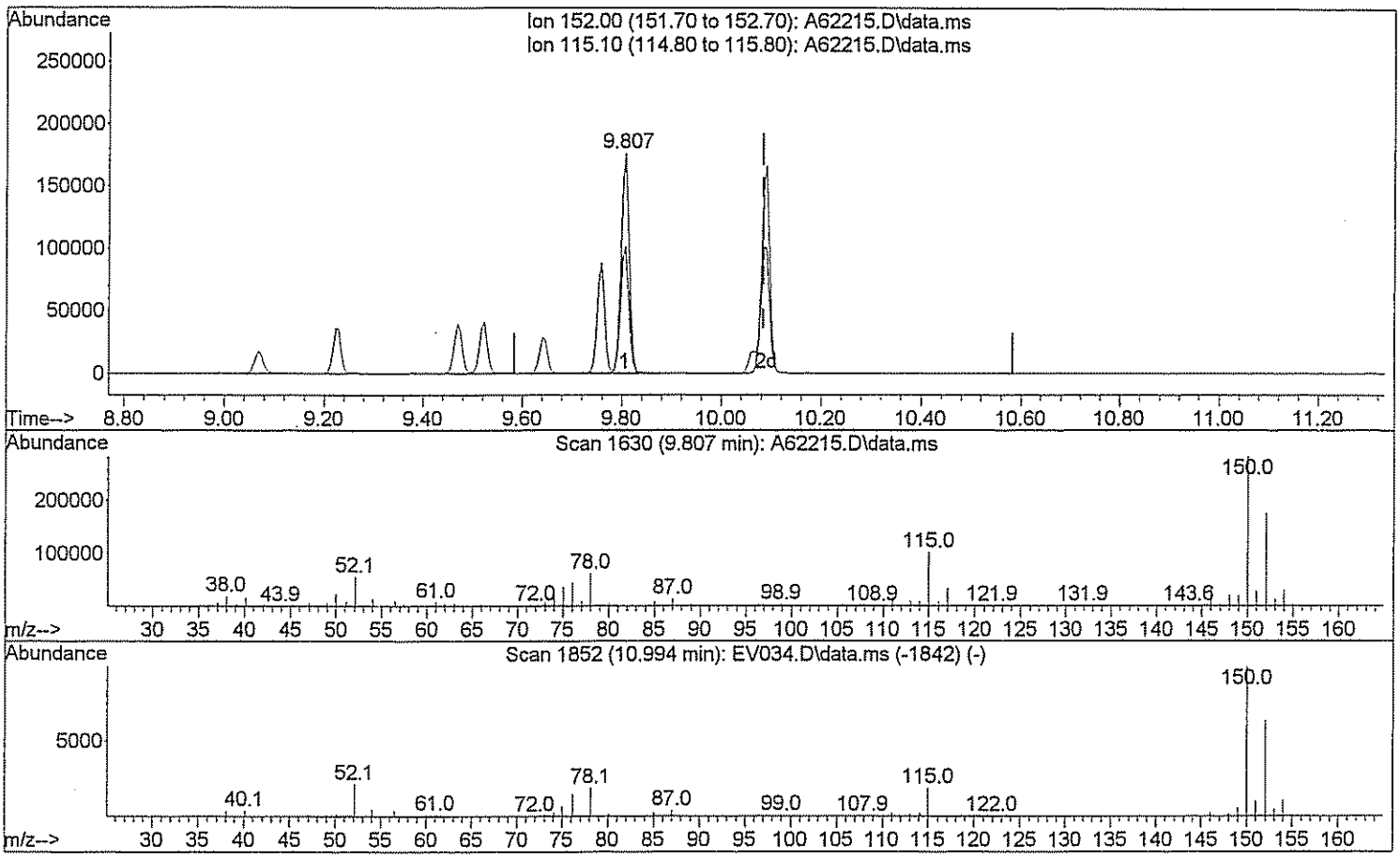
response 1471853

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	130.22#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.278) 55.06 ug/L

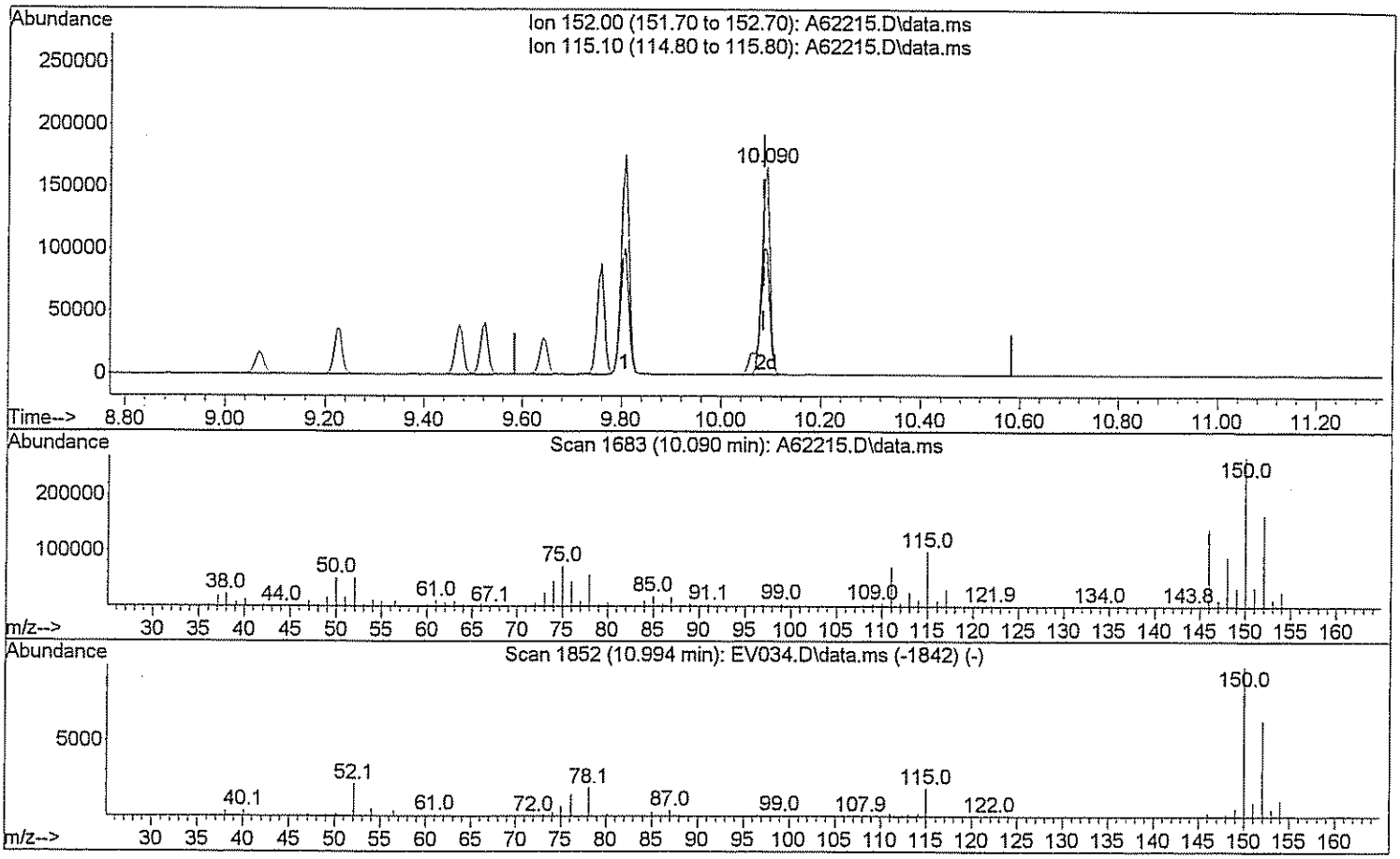
response 196008

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	58.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.005) 52.27 ug/L m

response 186080

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	61.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	451792	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	368065	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.785	117	369201	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	127289	53.24	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.48%				
54) Toluene-d8	6.148	98	448303	52.16	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.32%				
76) 4-Bromofluorobenzene	8.887	95	171713	48.75	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.50%				
92) 1,2-Dichlorobenzene-d4	10.090	152	179334m	51.02	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.04%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	163283	185.20	ug/L		99
3) Chloromethane	1.328	50	359762	261.78	ug/L		94
4) Vinyl chloride	1.392	62	387193	201.61	ug/L		97
5) Bromomethane	1.611	94	202436	233.46	ug/L		92
6) Chloroethane	1.675	64	284270	222.01	ug/L		99
7) Trichlorofluoromethane	1.809	101	811281	300.62	ug/L		99
8) Ethyl Ether	2.044	59	371482	217.85	ug/L		98
9) Freon 113	2.162	101	297997	199.83	ug/L		93
10) Acrolein	2.194	56	364103	1138.03	ug/L	#	65
11) Tert-Butyl alcohol	2.702	59	300740	1420.82	ug/L	#	47
12) 1,1-Dichloroethene	2.194	96	365174	212.11	ug/L		90
13) Iodomethane	2.323	142	290902	190.43	ug/L		96
14) Acetonitrile	2.472	40	2492691	2098.16	ug/L	#	1
15) Methylene chloride	2.585	84	439869	211.83	ug/L		98
16) Trans-1,2-dichloroethene	2.745	96	440274	215.90	ug/L		88
17) Isopropyl ether	3.098	45	1680957	210.47	ug/L		97
18) 1,1-Dichloroethane	3.104	63	800890	210.51	ug/L		100
19) Acetone	2.312	43	312363	395.54	ug/L		97
20) Methyl Acetate	4.270	43	87097	59.46	ug/L	#	100
21) MTBE	2.745	73	1194298	217.83	ug/L		100
22) Carbon disulfide	2.339	76	1152952	203.62	ug/L		100
24) Acrylonitrile	2.836	53	640901	1100.42	ug/L		99
25) Chloroprene	3.141	53	692315	203.74	ug/L		91
26) n-Heptane	4.436	71	299522m	185.89	ug/L		
27) 2,2-Dichloropropane	3.548	77	610873	200.73	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	462197	198.38	ug/L		90

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.745	96	940669m	424.47	ug/L		
30) Propionitrile	3.751	54	646001	2150.18	ug/L		98
31) Bromochloromethane	3.783	128	232724	214.09	ug/L		93
32) Tetrahydrofuran	3.794	72	106842	226.71	ug/L	#	1
33) Chloroform	3.842	83	899112	235.43	ug/L		98
34) Cyclohexane	3.933	56	656554	193.01	ug/L		93
35) 1,1,1-Trichloroethane	3.960	97	656121	214.83	ug/L		99
36) Carbon tetrachloride	4.061	117	564740	208.40	ug/L		100
37) Methacrylonitrile	3.842	41	3847918	2424.27	ug/L	#	26
38) Methylcyclohexane	4.992	83	574234	180.05	ug/L		99
39) Isobutyl Alcohol	4.436	43	542821	3783.48	ug/L		91
42) 2-Butanone	3.623	43	524768	405.64	ug/L		100
43) 1,1-Dichloropropene	4.099	75	560845	203.91	ug/L		98
44) Vinyl Acetate	3.136	43	568872	194.42	ug/L		97
45) Benzene	4.281	78	1755663	209.75	ug/L		100
46) 1,2-Dichloroethane	4.377	62	553129	208.82	ug/L	#	86
47) Trichloroethene	4.885	95	424939	203.65	ug/L		92
48) 1,2-Dichloropropane	5.163	63	448805	202.08	ug/L		97
49) Methyl methacrylate	5.270	69	297322	209.45	ug/L		89
50) Dibromomethane	5.281	93	270802	211.48	ug/L		98
51) Bromodichloromethane	5.431	83	566453	204.62	ug/L		100
52) 2-Chloroethylvinyl ether	5.784	63	624995	764.27	ug/L		98
53) Cis-1,3-dichloropropene	5.918	75	722742	208.73	ug/L		99
55) Toluene	6.217	92	1188416	214.78	ug/L		98
56) Trans-1,3-dichloropropene	6.576	75	669322	214.11	ug/L		97
57) Ethyl methacrylate	6.629	69	567116	213.10	ug/L		95
58) 1,1,2-Trichloroethane	6.779	83	344109	213.67	ug/L		97
60) 4-Methyl-2-pentanone	6.105	43	884809	392.91	ug/L		97
61) 2-Hexanone	7.073	43	650280	389.64	ug/L		98
62) Tetrachloroethene	6.795	166	489859	210.98	ug/L		96
63) 1,3-Dichloropropane	6.977	76	661242	200.72	ug/L		92
64) Dibromochloromethane	7.185	129	493255	206.73	ug/L		98
65) 1,2-Dibromoethane	7.319	107	399950	202.30	ug/L		98
66) 1-Chlorohexane	7.790	91	644735	198.83	ug/L		92
67) Chlorobenzene	7.811	112	1366383	201.13	ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.913	131	522187	211.01	ug/L		99
69) Ethylbenzene	7.902	91	2372752	208.07	ug/L		99
70) m,p-Xylene	8.025	106	2011769	430.21	ug/L		92
71) o-Xylene	8.400	106	914944	202.43	ug/L		95
72) Xylene (Total)	8.025	106	2931434m	633.11	ug/L		
73) Styrene	8.427	104	1565653	203.35	ug/L		95
74) Bromoform	8.603	173	308929	203.17	ug/L		99

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

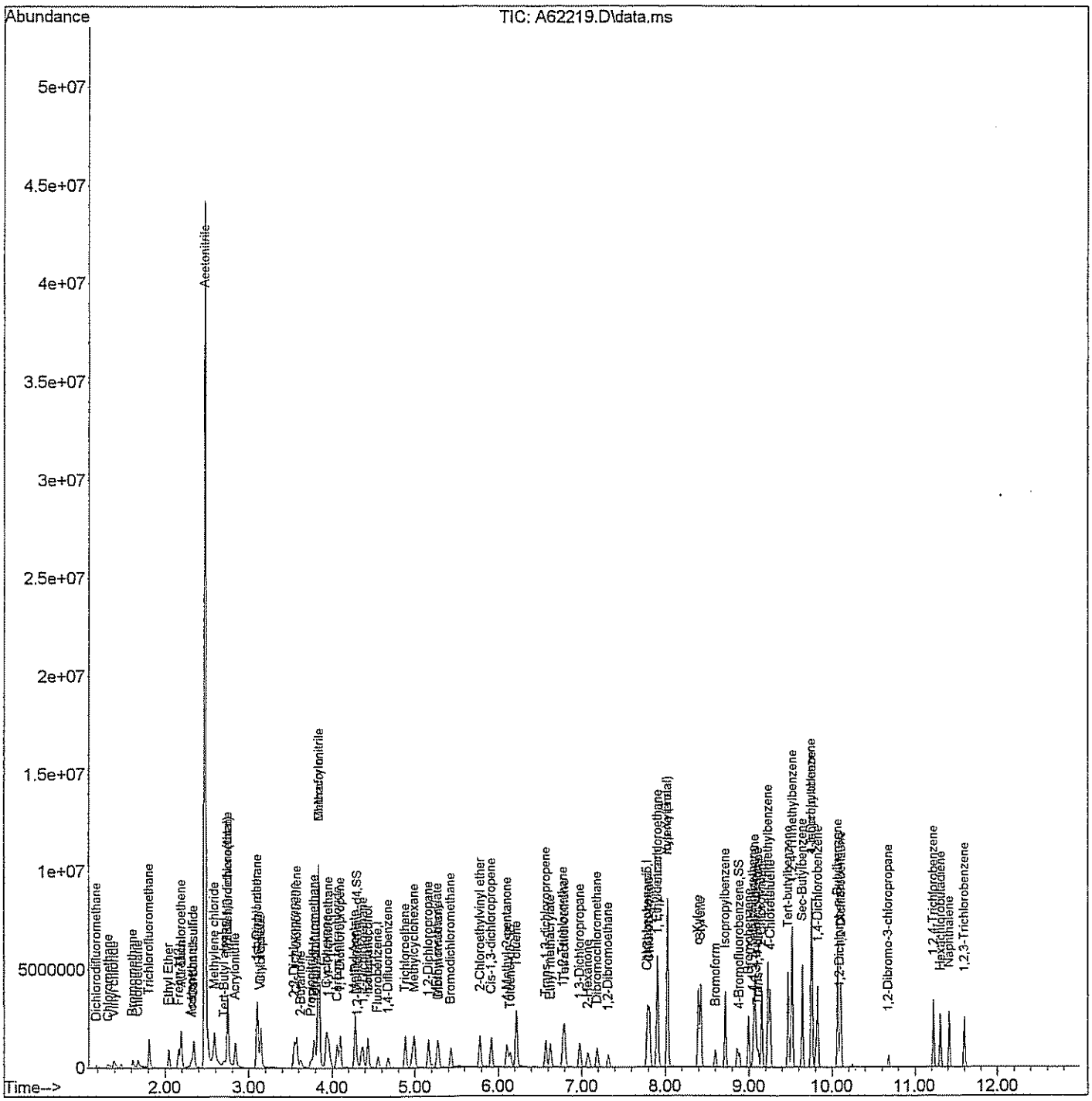
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.721	105	1988139	201.92	ug/L		99
77) Bromobenzene	8.999	156	546933	204.17	ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.053	83	512859	199.85	ug/L		99
79) 1,2,3-Trichloropropane	9.090	110	149522	199.55	ug/L		98
80) n-Propylbenzene	9.069	91	2717913	201.96	ug/L		99
81) Trans-1,4-dichloro-2-b...	9.111	53	130202	192.28	ug/L	#	1
82) 2-Chlorotoluene	9.154	126	558332	195.93	ug/L		88
83) 4-Chlorotoluene	9.256	126	595421	202.26	ug/L		94
84) 1,3,5-Trimethylbenzene	9.229	105	2006295	205.03	ug/L		96
85) Tert-butylbenzene	9.470	119	1756037	205.20	ug/L		97
87) 1,2,4-Trimethylbenzene	9.523	105	2156492	213.53	ug/L		94
88) Sec-Butylbenzene	9.646	105	2636165	200.47	ug/L		99
89) 1,3-Dichlorobenzene	9.753	146	1275620	223.84	ug/L		99
90) 4-Isopropyltoluene	9.759	119	2537819	218.34	ug/L		98
91) 1,4-Dichlorobenzene	9.828	146	1203750	210.40	ug/L		98
93) 1,2-Dichlorobenzene	10.106	146	1116199	209.33	ug/L		99
94) n-Butylbenzene	10.064	91	2146674	200.75	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	92731	210.67	ug/L		82
96) 1,2,4-Trichlorobenzene	11.224	180	710232	221.19	ug/L		99
97) Hexachlorobutadiene	11.310	225	331241	217.79	ug/L		99
98) Naphthalene	11.412	128	1644380	208.57	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	590974	218.14	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

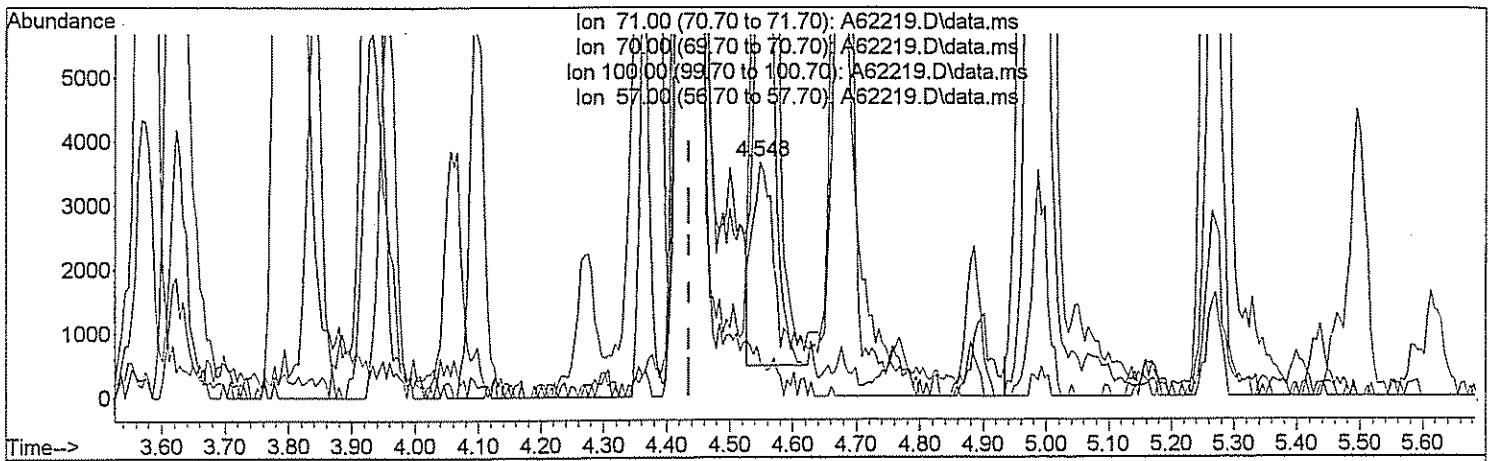
Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

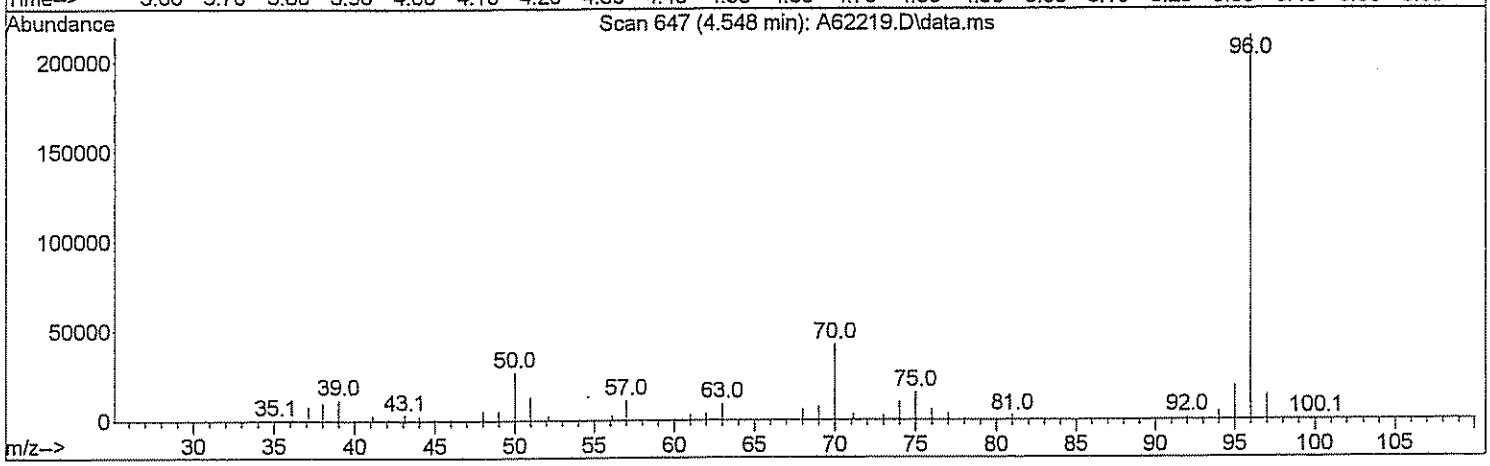


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration





TIC: A62219.D\data.ms

(26) n-Heptane (T)

4.548min (+0.112) 4.62 ug/L

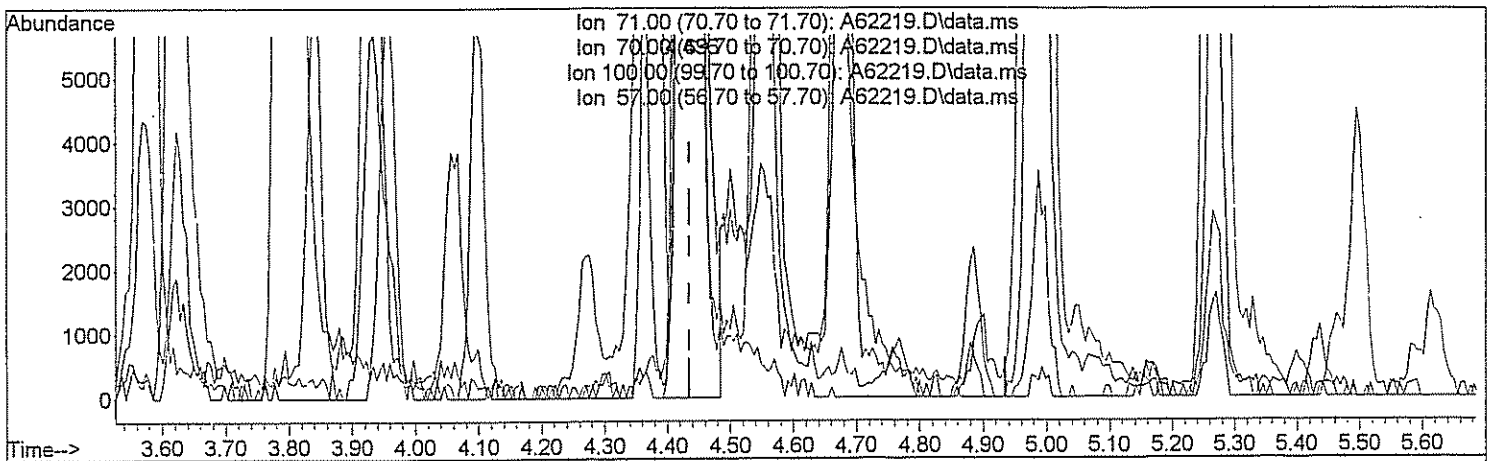
response 7438

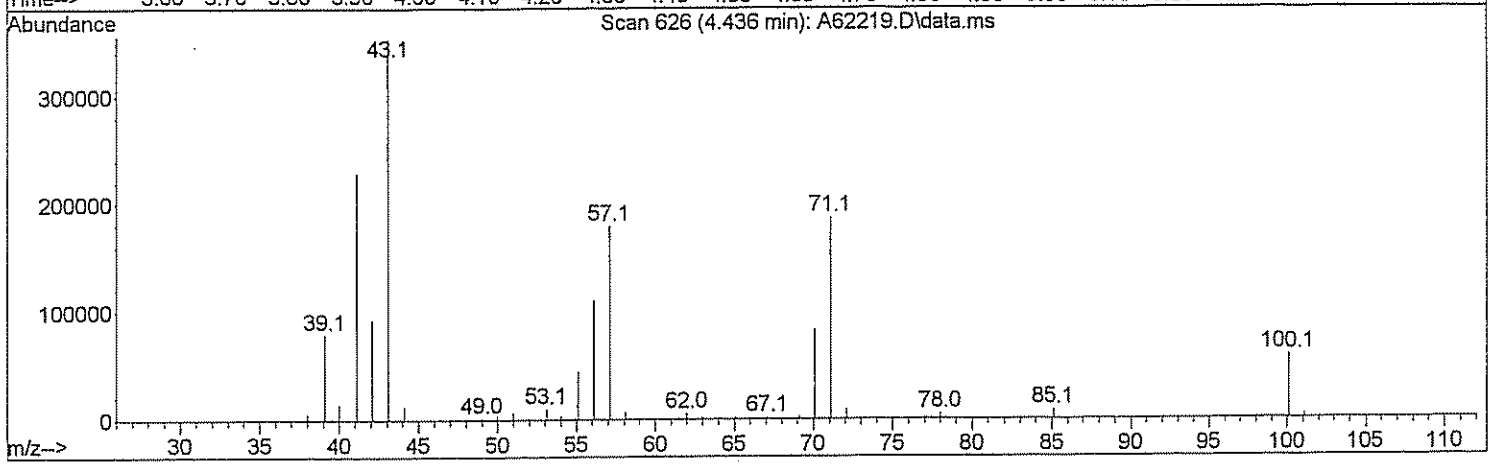
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1084.50#
100.00	62.00	0.00#
57.00	40.00	281.08#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration





TIC: A62219.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 185.89 ug/L m 3/17/09

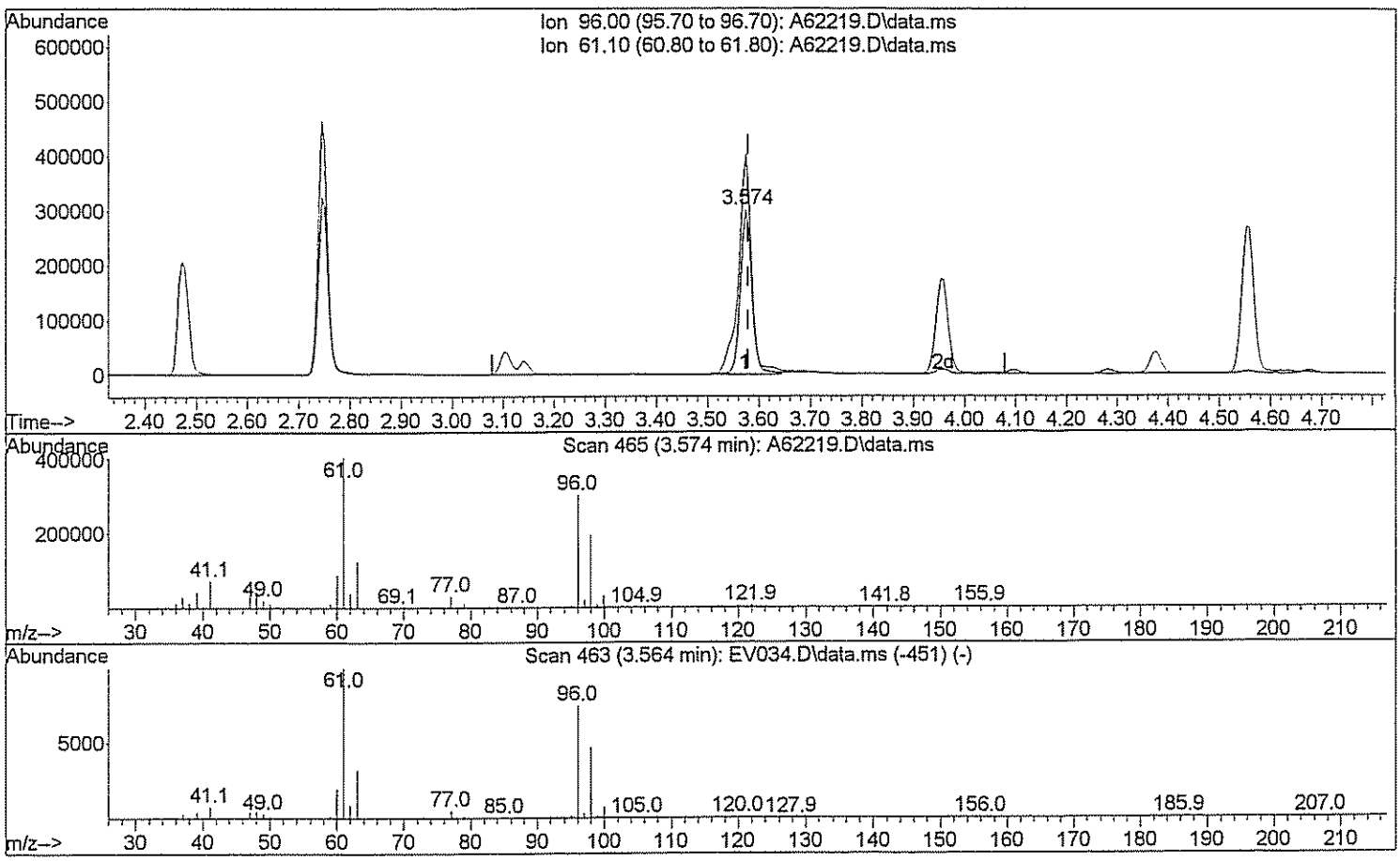
response 299522

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	26.93
100.00	62.00	0.00#
57.00	40.00	6.98#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (-0.005) 208.56 ug/L

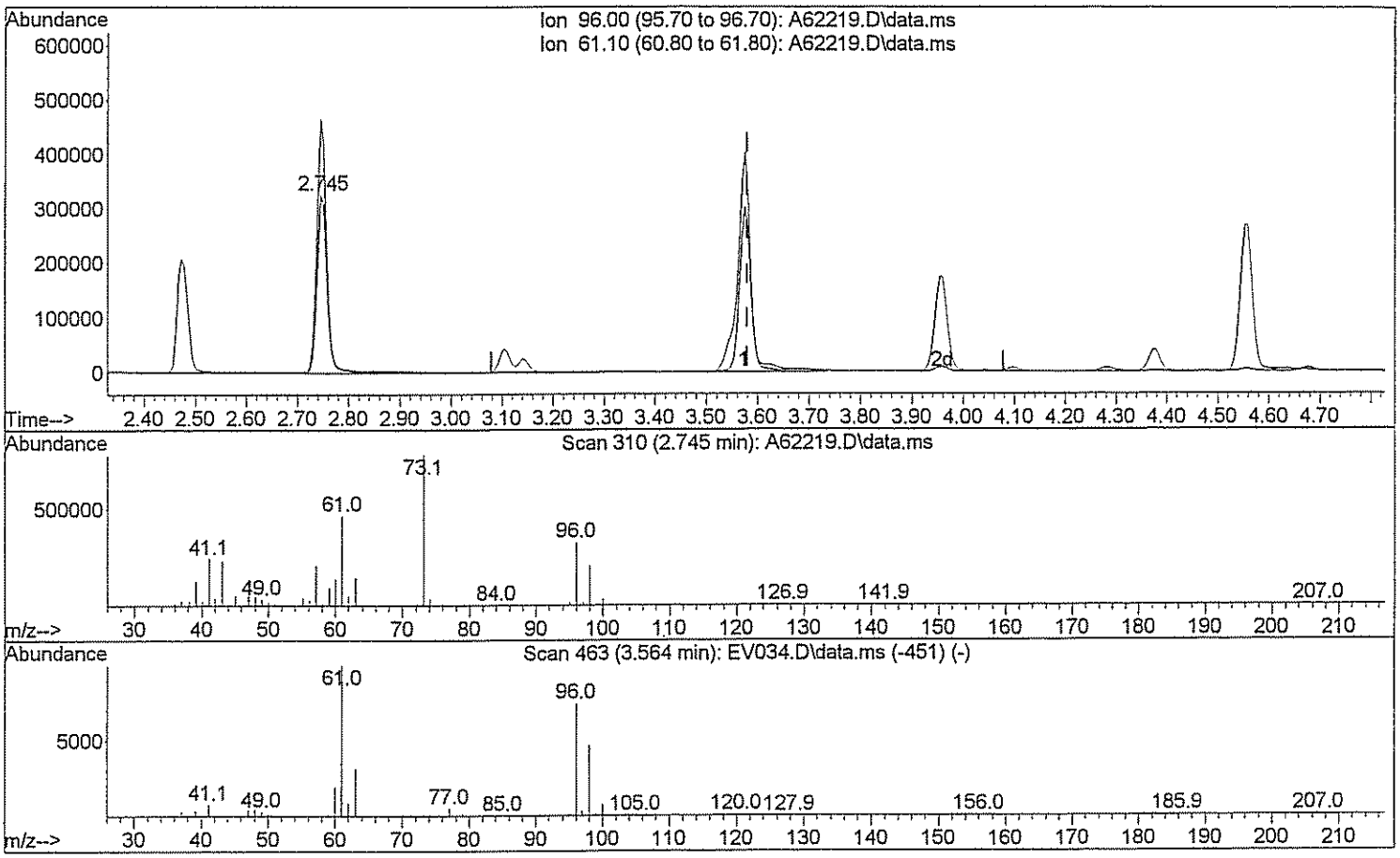
response 462197

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	155.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(29) 1,2-dichloroethene(total)

2.745min (-0.835) 424.47 ug/L m 3/17/09

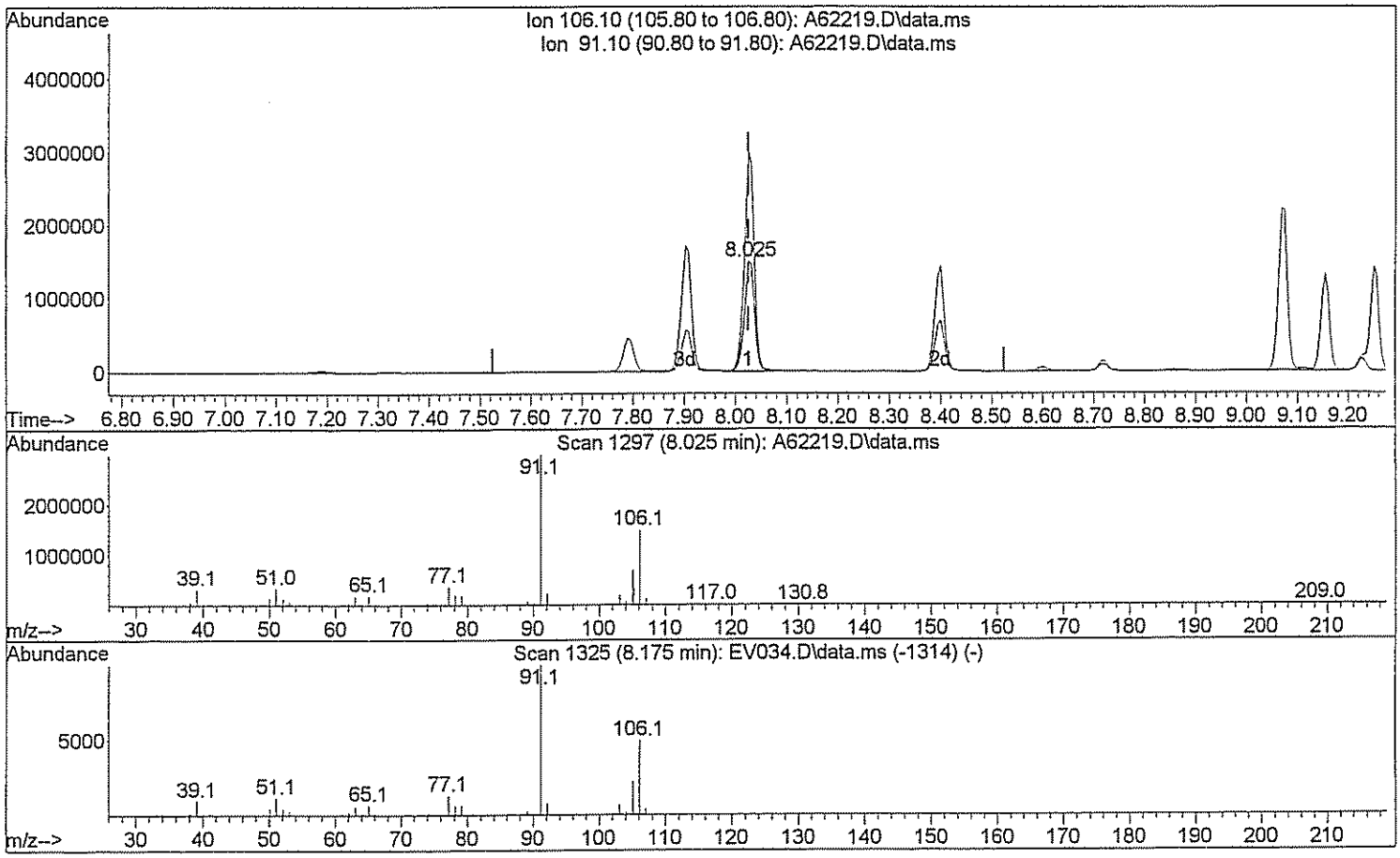
response 940669

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	76.49#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(72) Xylene (Total)

8.025min (+0.000) 434.49 ug/L

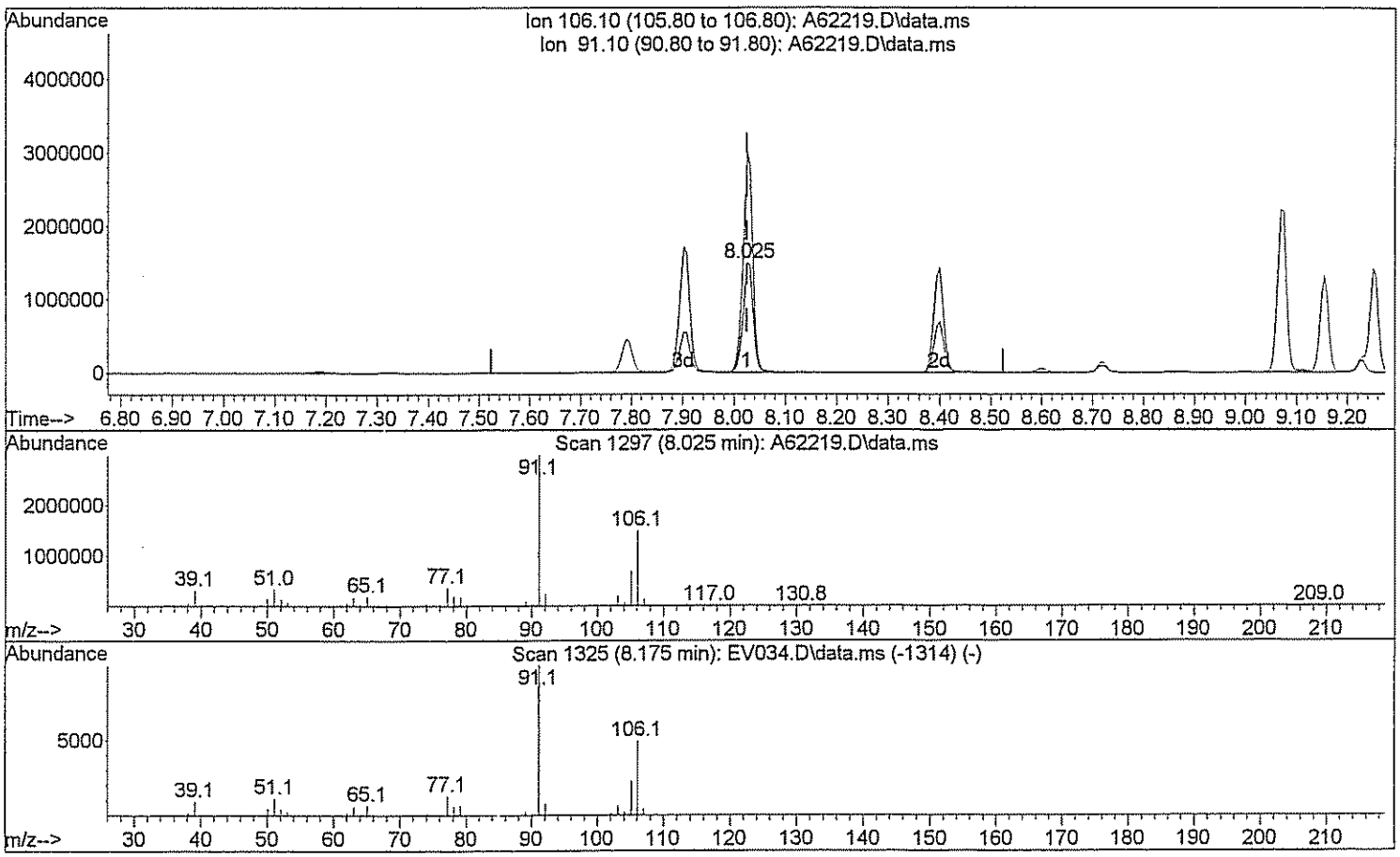
response 2011769

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(72) Xylene (Total)

8.025min (+0.000) 633.11 ug/L m DW 3/17/09

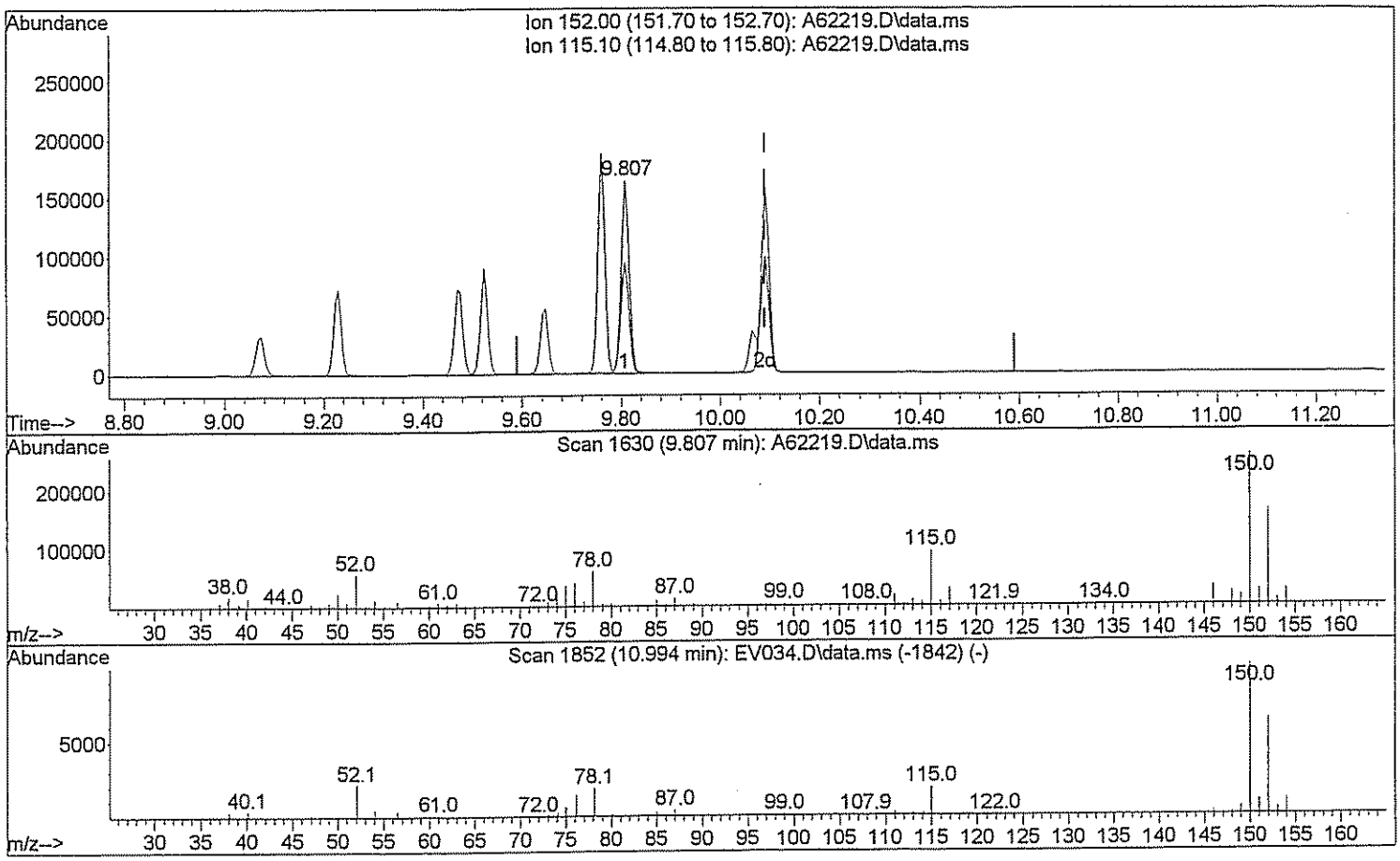
response 2931434

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	134.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.283) 53.05 ug/L

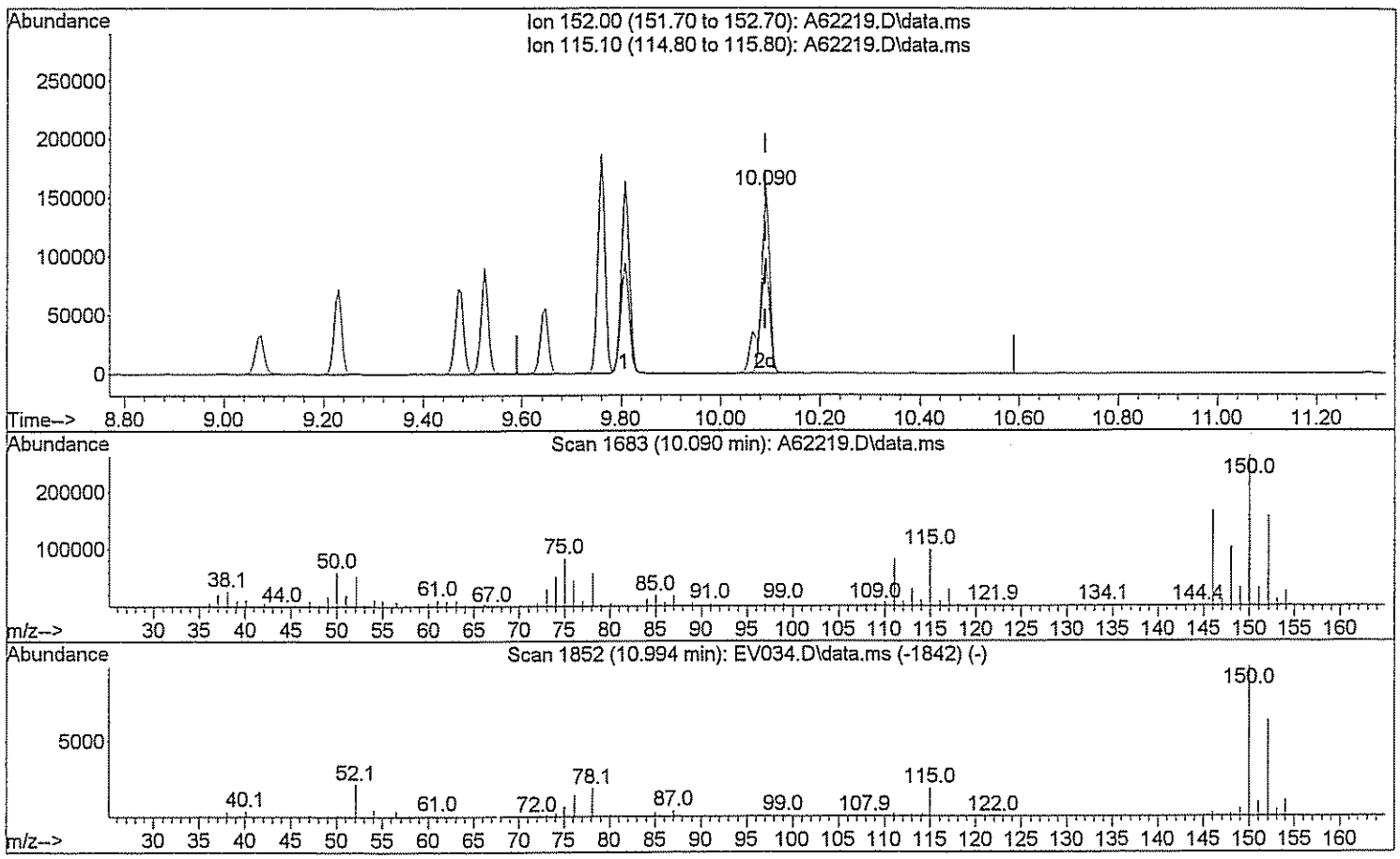
response 186440

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.000) 51.02 ug/L m DM 3/17/09

response 179334

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	61.39
0.00	0.00	0.00
0.00	0.00	0.00

REFERENCE

Evaluate ~~Continuing~~ Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	88	0.00
2		Dichlorodifluoromethane	0.089	0.119	-33.7#	107	0.00
3		Chloromethane	0.174	0.181	-4.0	110	0.00
4		Vinyl chloride	0.207	0.222	-7.2	93	0.00
5		Bromomethane	0.115	0.170	-47.8#	191#	0.00
6		Chloroethane	0.145	0.167	-15.2	103	0.00
7		Trichlorofluoromethane	0.256	0.367	-43.4#	111	0.00
8		Ethyl Ether	0.178	0.188	-5.6	87	0.00
9		Freon 113	0.158	0.191	-20.9#	102	0.00
10		Acrolein	0.036	0.034	5.6	84	0.00
11		Tert-Butyl alcohol	0.020	0.020	0.0	69	0.00
12		1,1-Dichloroethene	0.182	0.191	-4.9	89	0.00
13		Iodomethane	0.211	0.197	6.6	191#	0.00
14		Acetonitrile	0.108	0.142	-31.5#	101	0.00
15		Methylene chloride	0.252	0.238	5.6	93	0.00
16		Trans-1,2-dichloroethene	0.209	0.233	-11.5	93	0.00
17		Isopropyl ether	0.812	0.913	-12.4	92	0.00
18		1,1-Dichloroethane	0.374	0.442	-18.2	95	0.00
19		Acetone	0.095	0.092	3.2	89	0.00
20		Methyl Acetate	0.186	0.222	-19.4	76	0.00
21		MTBE	0.545	0.606	-11.2	87	0.00
22		Carbon disulfide	0.679	0.630	7.2	91	0.00
23		Allyl Chloride	0.000	0.000	0.0	101	0.00
24		Acrylonitrile	0.063	0.063	0.0	83	0.00
25		Chloroprene	0.357	0.375	-5.0	93	0.00
26	T	n-Heptane	0.183	0.202	-10.4	103	0.00
27		2,2-Dichloropropane	0.313	0.341	-8.9	90	0.00
28		Cis-1,2-dichloroethene	0.253	0.261	-3.2	91	0.00
29		1,2-dichloroethene(total)	0.268	0.250	6.7	91	0.82#
30		Propionitrile	0.031	0.031	0.0	78	0.00
31		Bromochloromethane	0.109	0.123	-12.8	92	0.00
32		Tetrahydrofuran	0.051	0.052	-2.0	83	0.00
33		Chloroform	0.426	0.434	-1.9	96	0.00
34		Cyclohexane	0.392	0.405	-3.3	99	0.00
35		1,1,1-Trichloroethane	0.318	0.346	-8.8	91	0.00
36		Carbon tetrachloride	0.272	0.309	-13.6	94	0.00
37		Methacrylonitrile	0.170	0.171	-0.6	86	0.00
38		Methylcyclohexane	0.338	0.378	-11.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.019	-26.7#	106	0.00
40	SS	1,2-Dichloroethane-d4	0.266	0.278	-4.5	93	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
42		2-Butanone	0.163	0.177	-8.6	84	0.00
43		1,1-Dichloropropene	0.339	0.392	-15.6	93	0.00
44		Vinyl Acetate	0.381	0.382	-0.3	84	0.00
45		Benzene	1.058	1.201	-13.5	94	0.00
46		1,2-Dichloroethane	0.332	0.366	-10.2	90	0.00
47		Trichloroethene	0.272	0.285	-4.8	90	0.00
48		1,2-Dichloropropane	0.271	0.311	-14.8	92	0.00
49		Methyl methacrylate	0.196	0.187	4.6	82	0.00
50		Dibromomethane	0.167	0.175	-4.8	87	0.00
51		Bromodichloromethane	0.354	0.383	-8.2	89	0.00
52		2-Chloroethylvinyl ether	0.108	0.059	45.4#	32#	0.00
53		Cis-1,3-dichloropropene	0.427	0.497	-16.4	93	0.00
54	SS	Toluene-d8	1.159	1.216	-4.9	92	0.00
55		Toluene	0.694	0.799	-15.1	95	0.00
56		Trans-1,3-dichloropropene	0.387	0.440	-13.7	89	0.00
57		Ethyl methacrylate	0.347	0.372	-7.2	90	0.00
58		1,1,2-Trichloroethane	0.208	0.221	-6.3	88	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
60		4-Methyl-2-pentanone	0.292	0.305	-4.5	86	0.00
61		2-Hexanone	0.210	0.229	-9.0	87	0.00
62		Tetrachloroethene	0.288	0.327	-13.5	97	0.00
63		1,3-Dichloropropane	0.416	0.459	-10.3	92	0.00
64		Dibromochloromethane	0.301	0.315	-4.7	89	0.00
65		1,2-Dibromoethane	0.257	0.271	-5.4	91	0.00
66		1-Chlorohexane	0.432	0.455	-5.3	94	0.00
67		Chlorobenzene	0.848	0.950	-12.0	95	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.336	-10.5	93	0.00
69		Ethylbenzene	1.451	1.577	-8.7	95	0.00
70		m,p-Xylene	0.570	0.647	-13.5	95	0.00
71		o-Xylene	0.578	0.622	-7.6	94	0.00
72		Xylene (Total)	0.586	0.639	-9.0	94	0.00
73		Styrene	0.960	1.041	-8.4	92	0.00
74		Bromoform	0.187	0.198	-5.9	84	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.345	-9.5	94	0.00
76	SS	4-Bromofluorobenzene	0.471	0.472	-0.2	89	0.00
77		Bromobenzene	0.336	0.367	-9.2	93	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.331	-0.3	84	0.00
79		1,2,3-Trichloropropane	0.098	0.101	-3.1	87	0.00
80		n-Propylbenzene	1.700	1.863	-9.6	94	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.074	10.8	61	0.00
82		2-Chlorotoluene	0.361	0.385	-6.6	91	0.00
83		4-Chlorotoluene	0.374	0.406	-8.6	94	0.00
84		1,3,5-Trimethylbenzene	1.207	1.314	-8.9	93	0.00
85		Tert-butylbenzene	1.049	1.148	-9.4	93	0.00
86		Pentachloroethane	0.000	0.000	0.0	91	0.00
87		1,2,4-Trimethylbenzene	1.254	1.370	-9.3	94	0.00
88		Sec-Butylbenzene	1.607	1.767	-10.0	93	0.00
89		1,3-Dichlorobenzene	0.706	0.771	-9.2	94	0.00
90		4-Isopropyltoluene	1.367	1.547	-13.2	93	0.00
91		1,4-Dichlorobenzene	0.708	0.780	-10.2	94	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.472	-2.2	92	0.00
93		1,2-Dichlorobenzene	0.674	0.729	-8.2	96	0.00
94		n-Butylbenzene	1.349	1.441	-6.8	93	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.056	1.8	82	0.00
96		1,2,4-Trichlorobenzene	0.409	0.441	-7.8	96	0.00
97		Hexachlorobutadiene	0.190	0.220	-15.8	101	0.00
98		Naphthalene	0.975	1.016	-4.2	83	0.00
99		1,2,3-Trichlorobenzene	0.342	0.368	-7.6	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.559	96	455382	50.00 ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	371810	50.00 ug/L	0.00
59) Chlorobenzene-d5	7.779	117	362973	50.00 ug/L	0.00
System Monitoring Compounds					
40) 1,2-Dichloroethane-d4	4.307	65	126686	52.37 ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.74%		
54) Toluene-d8	6.142	98	452235	52.49 ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.98%		
76) 4-Bromofluorobenzene	8.881	95	171300	50.07 ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.14%		
92) 1,2-Dichlorobenzene-d4	10.090	152	171474	51.10 ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.20%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.188	85	54067	67.01 ug/L	98
3) Chloromethane	1.327	50	82491	51.96 ug/L	98
4) Vinyl chloride	1.392	62	101158	53.68 ug/L	95
5) Bromomethane	1.616	94	77377	82.68 ug/L	92
6) Chloroethane	1.686	64	76250	57.64 ug/L	96
7) Trichlorofluoromethane	1.836	101	167046	60.75 ug/L	99
8) Ethyl Ether	2.044	59	85752	52.94 ug/L	97
9) Freon 113	2.178	101	86854	60.27 ug/L	89
10) Acrolein	2.189	56	77846	239.01 ug/L #	74
11) Tert-Butyl alcohol	2.670	59	184154	996.39 ug/L #	47
12) 1,1-Dichloroethene	2.205	96	86773	52.46 ug/L	89
13) Iodomethane	2.333	142	89900	46.73 ug/L	96
14) Acetonitrile	2.478	40	648038	539.72 ug/L #	1
15) Methylene chloride	2.590	84	108208	50.44 ug/L	98
16) Trans-1,2-dichloroethene	2.750	96	106306	55.96 ug/L	90
17) Isopropyl ether	3.093	45	415843	56.26 ug/L	100
18) 1,1-Dichloroethane	3.109	63	201485	59.18 ug/L	97
19) Acetone	2.296	43	83481	107.15 ug/L	95
20) Methyl Acetate	4.259	43	101155	44.82 ug/L #	100
21) MTBE	2.740	73	275965	55.64 ug/L	100
22) Carbon disulfide	2.355	76	286671	49.87 ug/L	100
24) Acrylonitrile	2.831	53	143730	249.46 ug/L	98
25) Chloroprene	3.146	53	170876	52.54 ug/L	91
26) n-Heptane	4.436	71	92056m	55.36 ug/L	
27) 2,2-Dichloropropane	3.553	77	155142	54.46 ug/L #	71
28) Cis-1,2-dichloroethene	3.574	96	118772	51.52 ug/L	94

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
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Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	227721m	93.31	ug/L		
30) Propionitrile	3.735	54	142132	499.58	ug/L		99
31) Bromochloromethane	3.783	128	56165	56.47	ug/L		96
32) Tetrahydrofuran	3.788	72	23801	50.96	ug/L	#	1
33) Chloroform	3.836	83	197718	50.93	ug/L		97
34) Cyclohexane	3.933	56	184270	54.44	ug/L		94
35) 1,1,1-Trichloroethane	3.960	97	157737	54.44	ug/L		99
36) Carbon tetrachloride	4.061	117	140935	56.81	ug/L		100
37) Methacrylonitrile	3.826	41	780286	504.02	ug/L	#	19
38) Methylcyclohexane	4.992	83	172142	55.87	ug/L		94
39) Isobutyl Alcohol	4.436	43	174603	1293.22	ug/L		91
42) 2-Butanone	3.612	43	131383	108.32	ug/L		96
43) 1,1-Dichloropropene	4.099	75	145727	57.82	ug/L		98
44) Vinyl Acetate	3.136	43	142059	50.10	ug/L		99
45) Benzene	4.281	78	446598	56.75	ug/L		100
46) 1,2-Dichloroethane	4.377	62	135994	55.12	ug/L	#	84
47) Trichloroethene	4.885	95	106034	52.47	ug/L		89
48) 1,2-Dichloropropane	5.163	63	115549	57.30	ug/L		95
49) Methyl methacrylate	5.265	69	69429	47.55	ug/L		97
50) Dibromomethane	5.281	93	64913	52.33	ug/L		96
51) Bromodichloromethane	5.431	83	142305	54.06	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	88259	109.93	ug/L		95
53) Cis-1,3-dichloropropene	5.918	75	184617	58.20	ug/L		99
55) Toluene	6.217	92	297166	57.61	ug/L		98
56) Trans-1,3-dichloropropene	6.570	75	163637	56.93	ug/L		97
57) Ethyl methacrylate	6.624	69	138195	53.55	ug/L		94
58) 1,1,2-Trichloroethane	6.773	83	82308	53.18	ug/L		95
60) 4-Methyl-2-pentanone	6.094	43	221650	104.72	ug/L		95
61) 2-Hexanone	7.062	43	166157	108.75	ug/L		97
62) Tetrachloroethene	6.795	166	118630	56.70	ug/L		96
63) 1,3-Dichloropropane	6.977	76	166692	55.20	ug/L		92
64) Dibromochloromethane	7.185	129	114427	52.34	ug/L		99
65) 1,2-Dibromoethane	7.319	107	98318	52.70	ug/L		98
66) 1-Chlorohexane	7.790	91	164972	52.56	ug/L		93
67) Chlorobenzene	7.811	112	344787	56.02	ug/L		89
68) 1,1,1,2-Tetrachloroethane	7.908	131	122072	55.38	ug/L		96
69) Ethylbenzene	7.902	91	572267	54.32	ug/L		98
70) m,p-Xylene	8.020	106	469420	113.43	ug/L		90
71) o-Xylene	8.394	106	225692	53.82	ug/L		94
72) Xylene (Total)	8.020	106	695566m	163.62	ug/L		
73) Styrene	8.421	104	377972	54.24	ug/L		92
74) Bromoform	8.598	173	71717	52.89	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

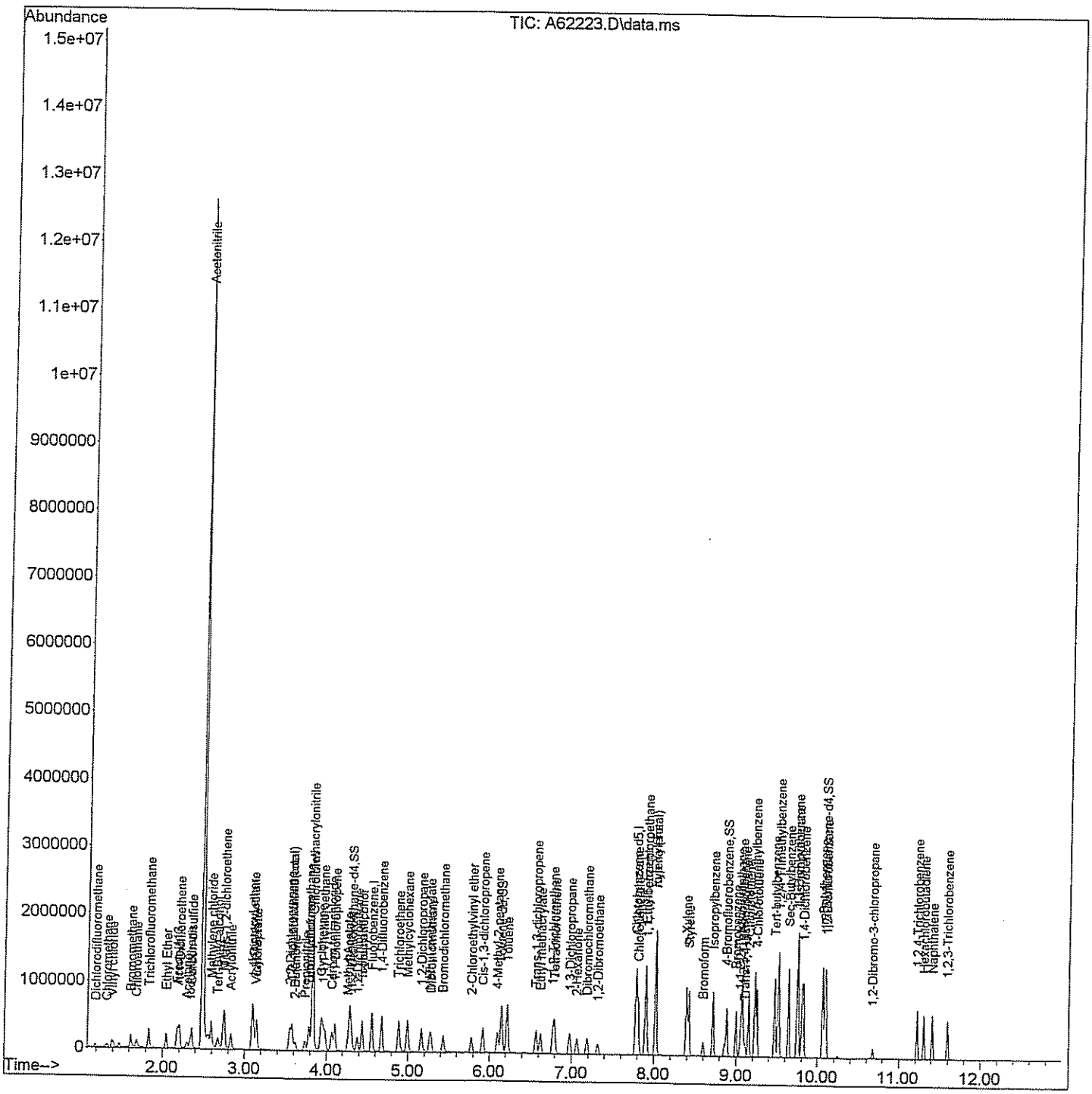
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	488282	54.76 ug/L	98
77) Bromobenzene	8.994	156	133216	54.57 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	120279	50.17 ug/L	97
79) 1,2,3-Trichloropropane	9.085	110	36572	51.35 ug/L	96
80) n-Propylbenzene	9.069	91	676242	54.79 ug/L	99
81) Trans-1,4-dichloro-2-b...	9.106	53	26923	45.29 ug/L #	25
82) 2-Chlorotoluene	9.149	126	139769	53.40 ug/L	90
83) 4-Chlorotoluene	9.250	126	147320	54.23 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	476804	54.42 ug/L	95
85) Tert-butylbenzene	9.470	119	416869	54.76 ug/L	96
87) 1,2,4-Trimethylbenzene	9.518	105	497453	54.66 ug/L	93
88) Sec-Butylbenzene	9.641	105	641537	54.99 ug/L	98
89) 1,3-Dichlorobenzene	9.748	146	279766	54.61 ug/L	100
90) 4-Isopropyltoluene	9.759	119	561573	56.60 ug/L	98
91) 1,4-Dichlorobenzene	9.823	146	283114	55.08 ug/L	98
93) 1,2-Dichlorobenzene	10.101	146	264432	54.04 ug/L	99
94) n-Butylbenzene	10.064	91	523187	53.43 ug/L	95
95) 1,2-Dibromo-3-chloropr...	10.679	75	20440	49.78 ug/L	80
96) 1,2,4-Trichlorobenzene	11.224	180	160221	53.96 ug/L	99
97) Hexachlorobutadiene	11.305	225	79748	57.67 ug/L	98
98) Naphthalene	11.412	128	368792	52.12 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	133500	53.71 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

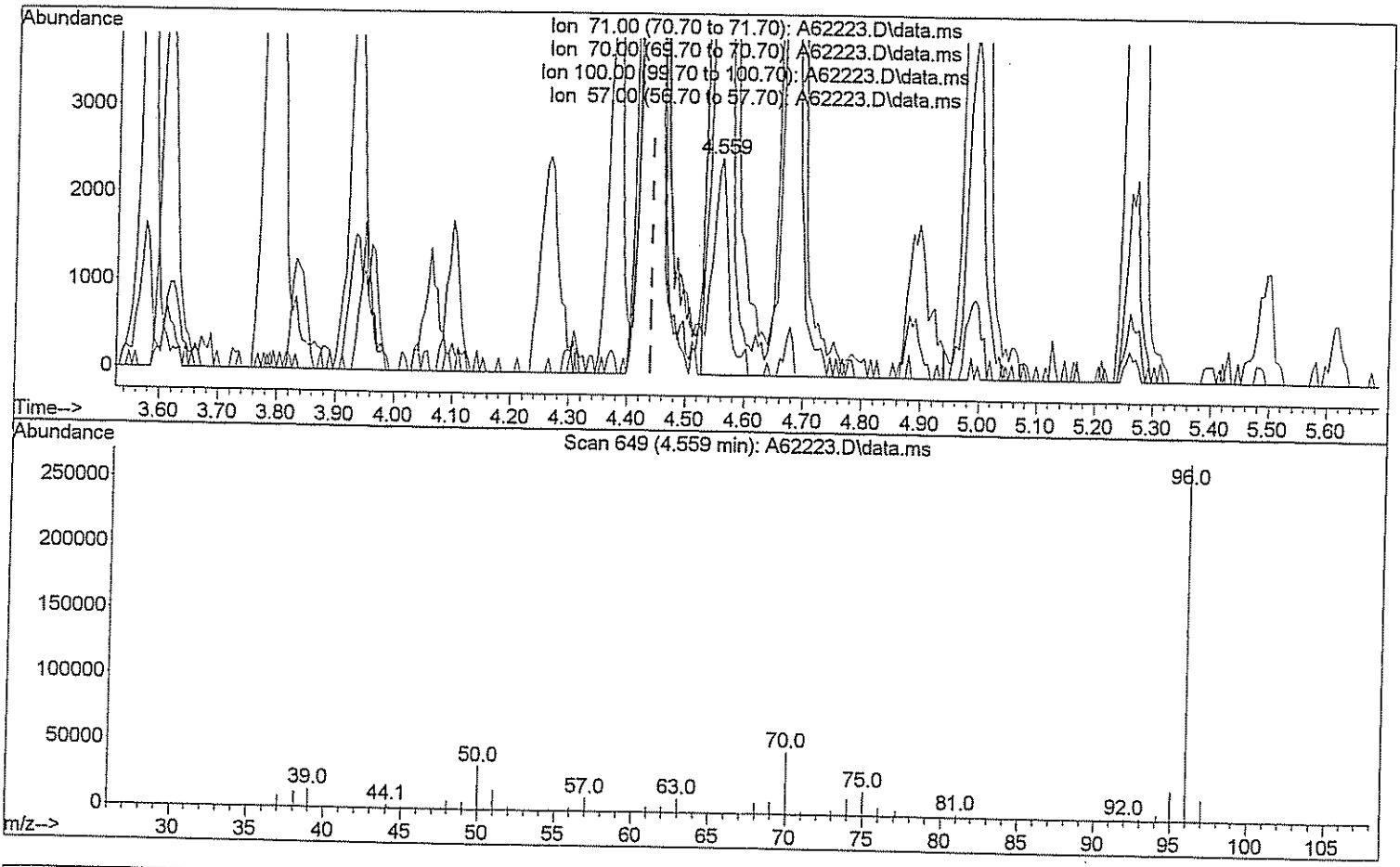
Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(26) n-Heptane (T)

4.559min (+0.118) 2.75 ug/L

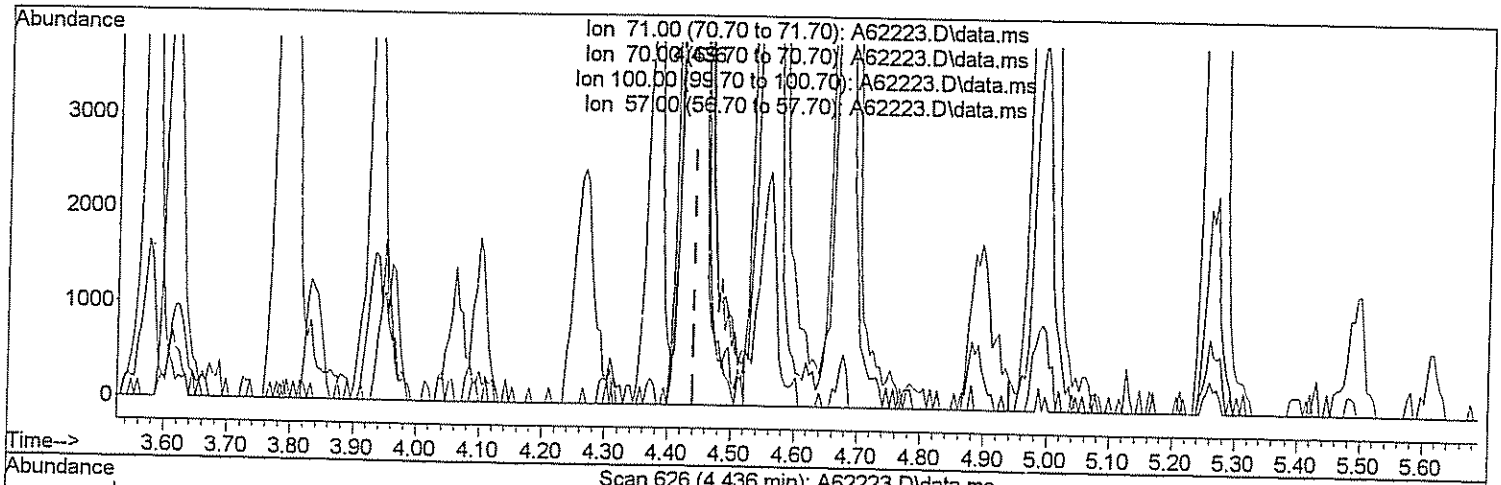
response 4573

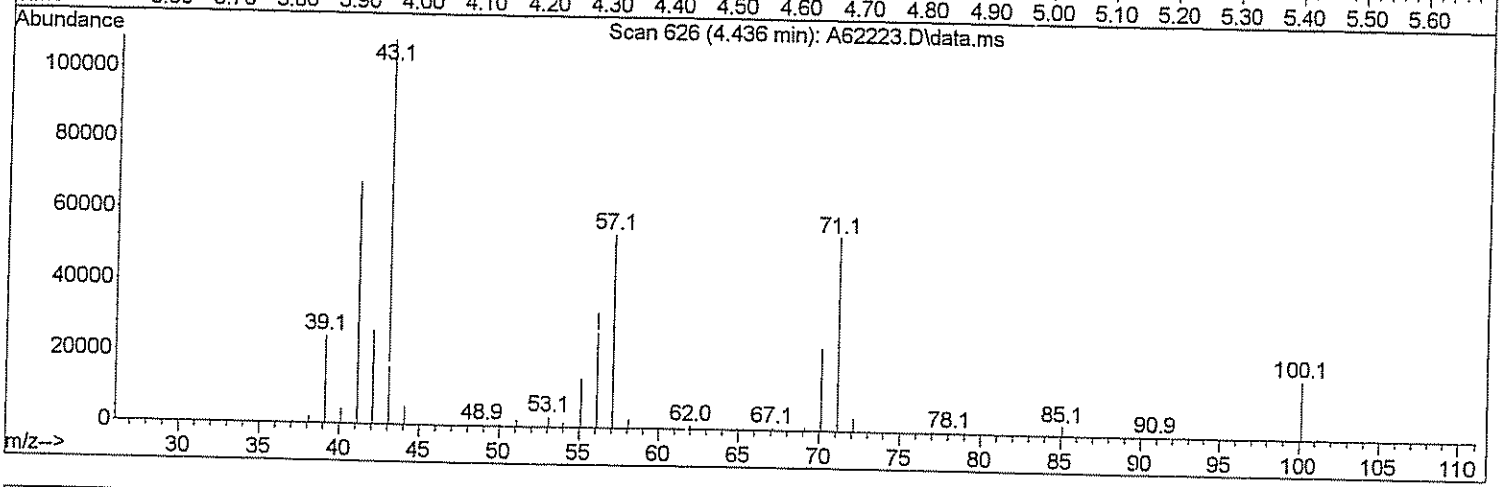
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1777.41#
100.00	62.00	0.00#
57.00	40.00	406.25#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration





TIC: A62223.D\data.ms

(26) n-Heptane (T)

4.436min (-0.005) 55.36 ug/L m

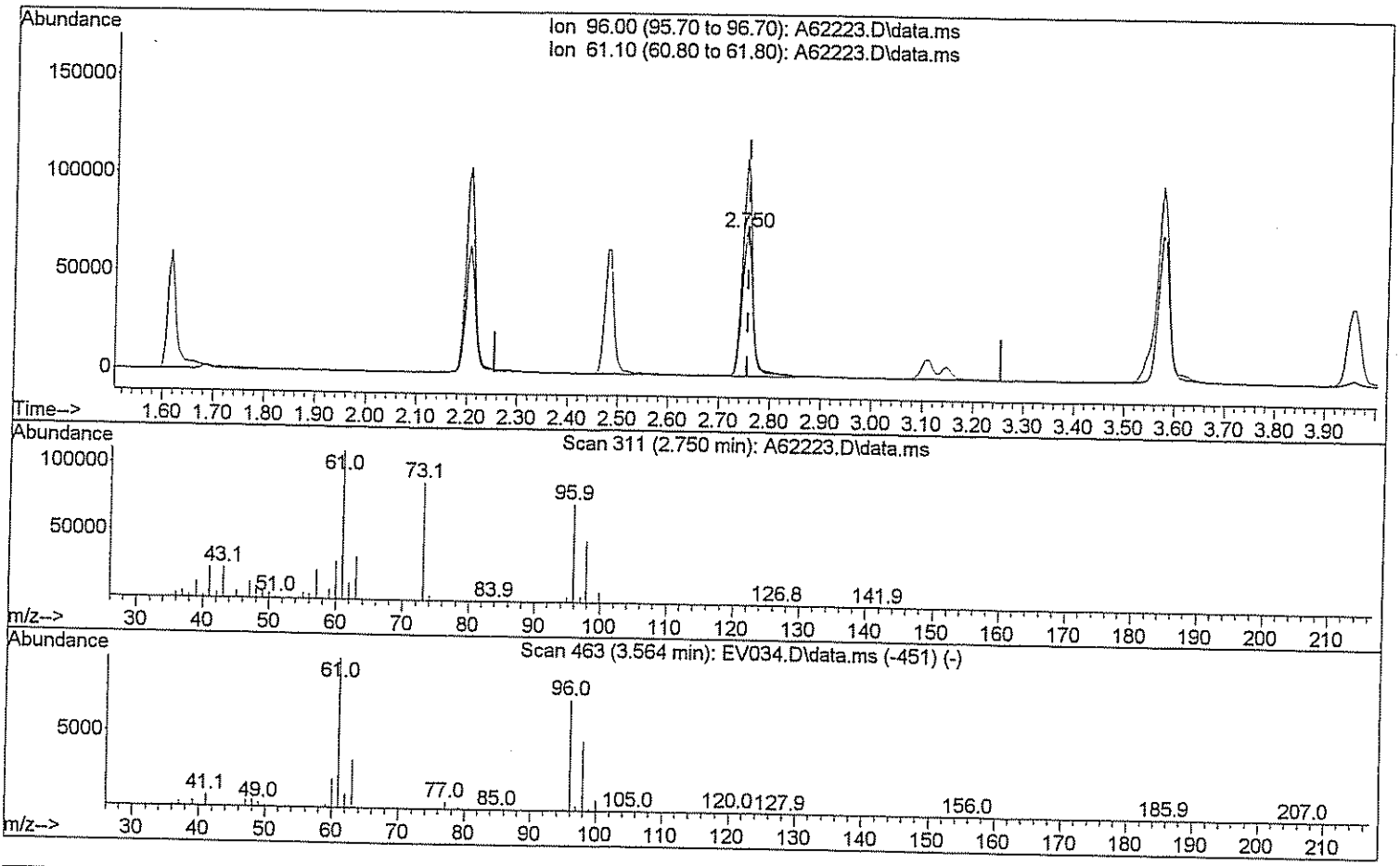
response 92056

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	88.30#
100.00	62.00	0.00#
57.00	40.00	20.18#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 43.56 ug/L

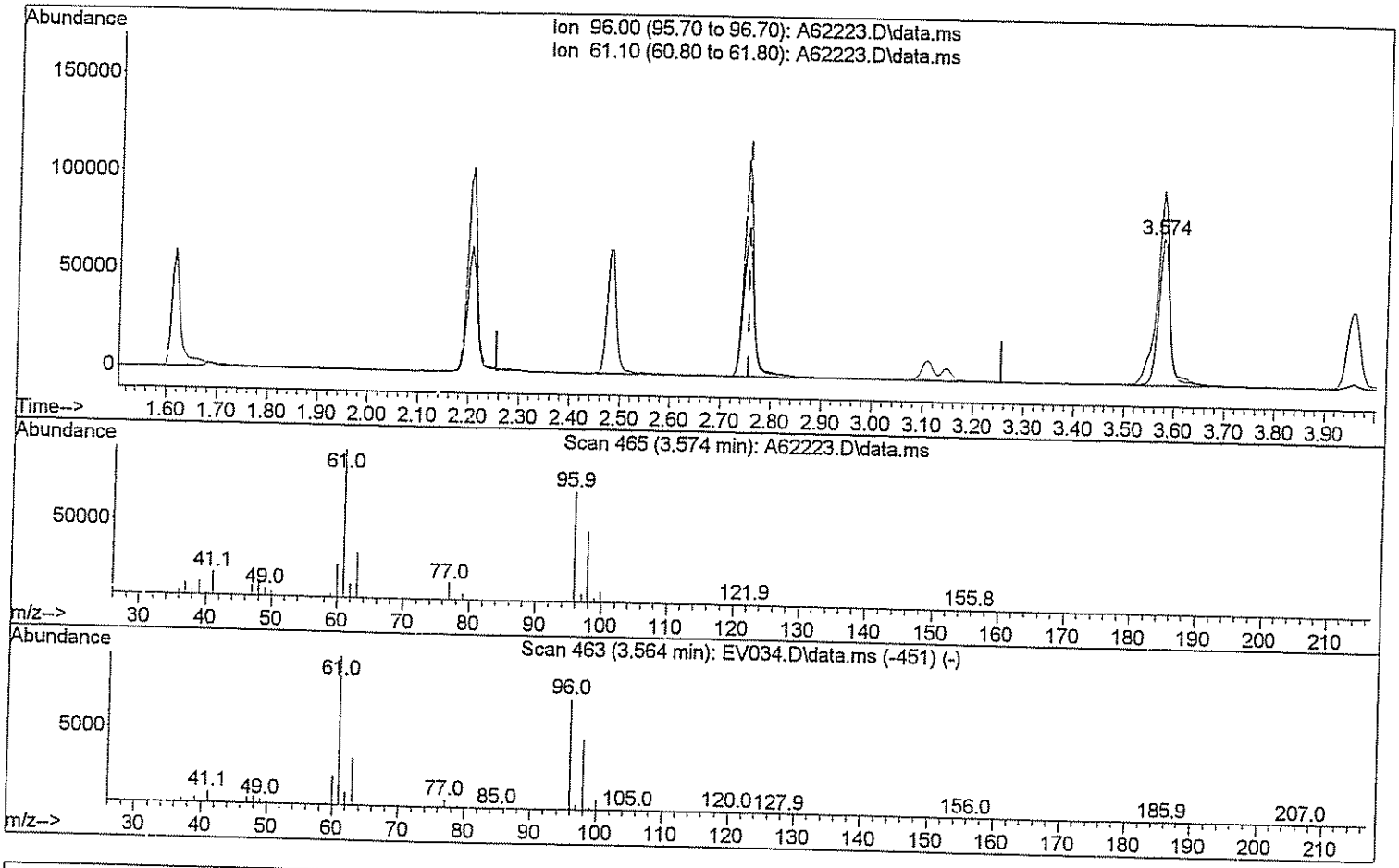
response 106306

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	142.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (+0.819) 93.31 ug/L m DMW 3/17/09

response 227721

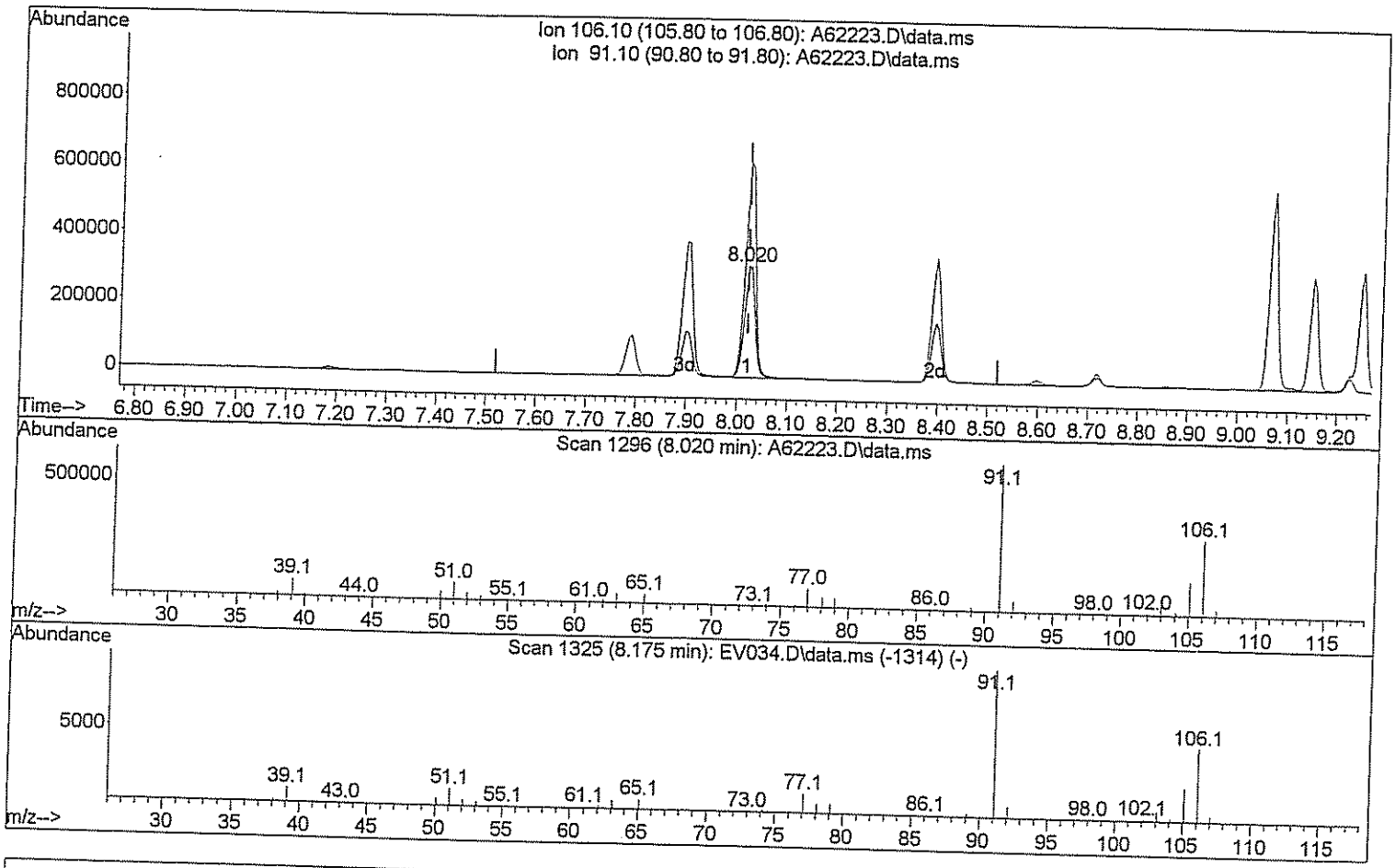
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	66.57#
0.00	0.00	0.00
0.00	0.00	0.00

255 of 887

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 110.42 ug/L

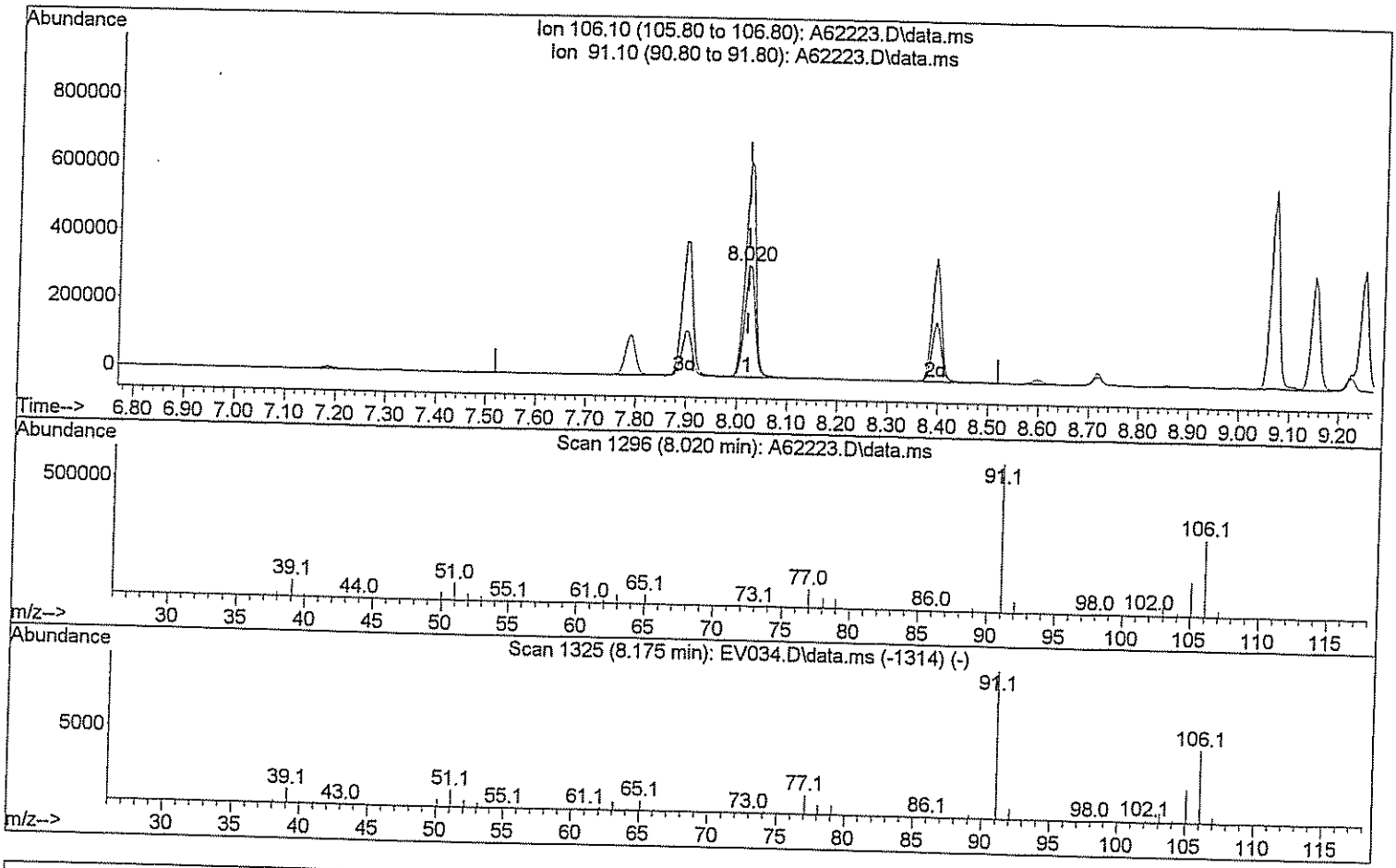
response 469420

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 163.62 ug/L m DM 3/17/09

response 695566

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.95#
0.00	0.00	0.00
0.00	0.00	0.00

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009
Response Via : Initial Calibration

Calibration Files
1 =A62208.D 5 =A62210.D 20 =A62212.D 50 =A62214.D 100 =A62216.D
200 =A62220.D

		Compound	1	5	20	50	100	200	Avg	%R SD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluo...	0.120	0.111	0.119	0.086	0.118	0.123	0.113	12.08
3)		Chloromethane	0.130	0.128	0.142	0.106	0.203		0.142	25.94
4)		Vinyl chloride	0.134	0.140	0.199	0.167	0.224	0.235	0.183	~~23.46~~ r²=0.99
5)		Bromomethane	0.070	0.054	0.062	0.055	0.080		0.064	17.43
6)		Chloroethane	0.167	0.122	0.140	0.117	0.143	0.163	0.142	14.33
7)		Trichlorofluor...	0.169	0.246	0.270	0.217	0.296		0.239	20.54
8)		Ethyl Ether	0.184	0.185	0.175	0.149	0.191	0.230	0.186	14.22
9)		Freon 113	0.186	0.161	0.176	0.130	0.186	0.179	0.170	12.63
10)		Acrolein		0.055	0.035	0.030	0.038	0.058	0.043	~~28.85~~ r²=0.99
11)		Tert-Butyl alc...	0.026	0.015	0.013	0.012	0.015	0.037	0.020	~~50.87~~ r²=0.99
12)		1,1-Dichloroet...	0.203	0.187	0.176	0.140	0.189	0.208	0.184	13.36
13)		Iodomethane	0.081	0.109	0.177	0.181	0.257	0.182	0.164	37.82
14)		Acetonitrile	0.068	0.068	0.088	0.088	0.133	0.131	0.096	~~30.66~~ r²=0.99
15)		Methylene chlo...	0.408	0.270	0.218	0.182	0.225	0.236	0.257	~~30.95~~ r²=0.99
16)		Trans-1,2-dich...	0.232	0.181	0.191	0.166	0.217	0.212	0.200	12.32
17)		Isopropyl ether	0.850		0.767	0.665	0.845	0.895	0.805	11.26
18)		1,1-Dichloroet...	0.342	0.335	0.343	0.313	0.402	0.401	0.356	10.34
19)		Acetone	0.172	0.075	0.062	0.056	0.068	0.117	0.092	~~48.84~~ r²=0.99
20)		Methyl Acetate	0.271	0.158	0.133	0.151	0.158	0.384	0.209	~~47.13~~ r²=0.99
21)		MTBE	0.578	0.576	0.560	0.483	0.627	0.649	0.579	10.01
22)		Carbon disulfide	1.523	0.763	0.587	0.470	0.611	0.629	0.764	~~50.20~~ r²=0.99
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile	0.103	0.070	0.061	0.054	0.067	0.097	0.075	~~26.82~~ r²=0.99
25)		Chloroprene	0.379	0.349		0.270	0.372	0.333	0.341	12.75
26)	T	n-Heptane	0.233	0.164	0.181	0.154	0.163	0.148	0.174	17.86
27)		2,2-Dichloropr...	0.302	0.253	0.292	0.265	0.324	0.309	0.291	9.30
28)		Cis-1,2-dichlo...	0.289	0.221	0.221	0.207	0.248	0.241	0.238	12.28
29)		1,2-dichloroet...		0.211	0.214	0.190	0.235	0.236	0.217	8.87
30)		Propionitrile	0.043	0.032	0.027	0.027	0.030		0.032	20.48
31)		Bromochloromet...	0.120		0.106	0.105	0.120	0.128	0.115	8.57
32)		Tetrahydrofuran	0.064	0.054	0.051	0.050	0.056	0.082	0.059	20.48
33)		Chloroform	0.488	0.356	0.351	0.347	0.418	0.460	0.403	15.18
34)		Cyclohexane	0.624	0.344	0.365	0.320	0.372	0.360	0.398	~~28.35~~ r²=0.9
35)		1,1,1-Trichlor...	0.302	0.283	0.291	0.299	0.329	0.339	0.307	7.22
36)		Carbon tetrach...	0.150	0.170	0.251	0.261	0.291	0.270	0.232	~~24.84~~ r²=0.99
37)		Methylcyclohexane	0.373	0.314	0.345	0.327	0.363	0.328	0.342	6.72
38)		Isobutyl Alcohol	0.021	0.014	0.017	0.014	0.015	0.014	0.016	16.89
39)	SS	1,2-Dichloroet...	0.274	0.278	0.271	0.267	0.271	0.296	0.276	3.84
40)		1,4-Difluorobenzene	ISTD							
41)		2-Butanone	0.276	0.183	0.150	0.139	0.165	0.234	0.191	~~27.74~~ r²=0.99
42)		1,1-Dichloropr...	0.318	0.297	0.314	0.325	0.352	0.348	0.326	6.44

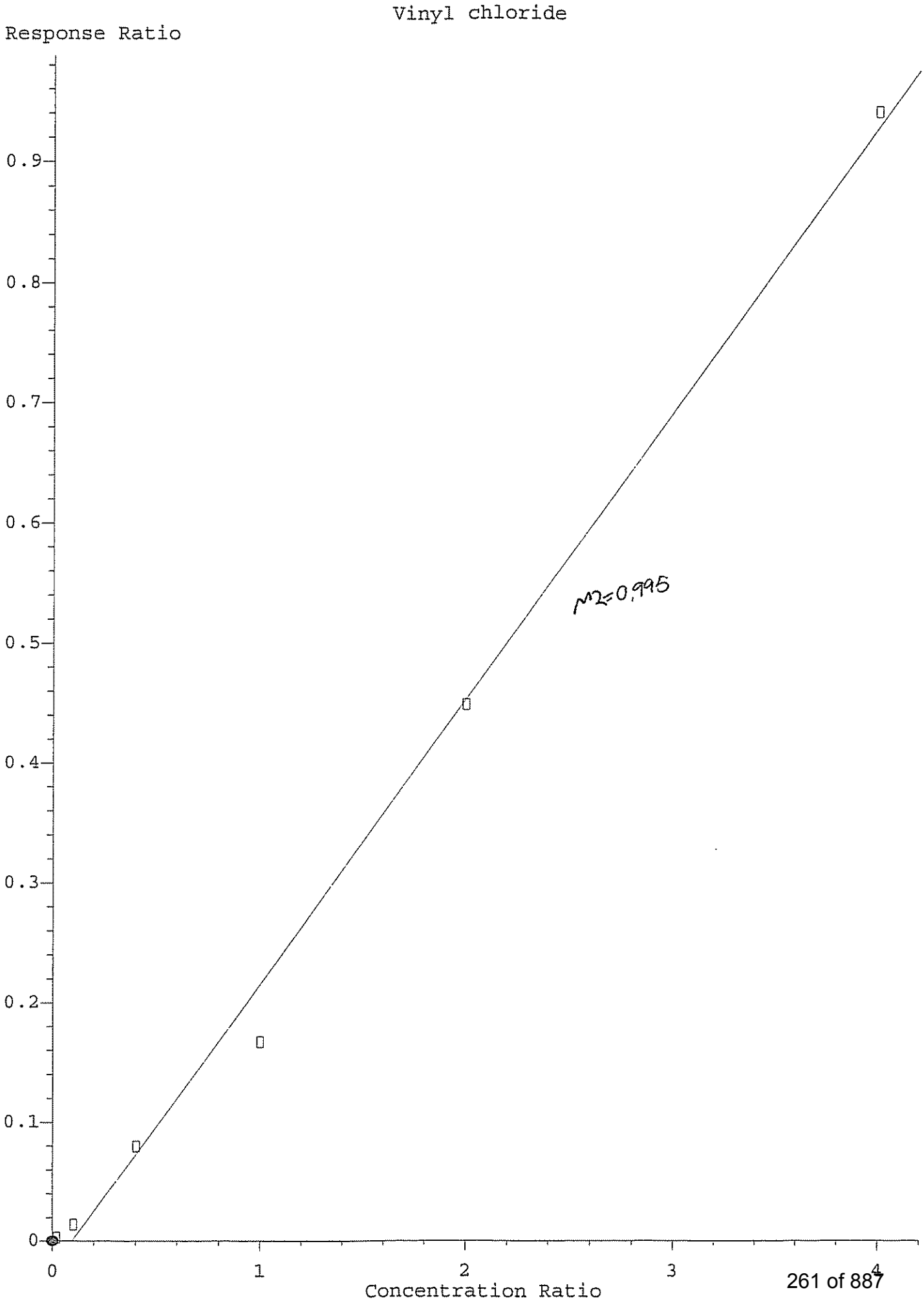
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

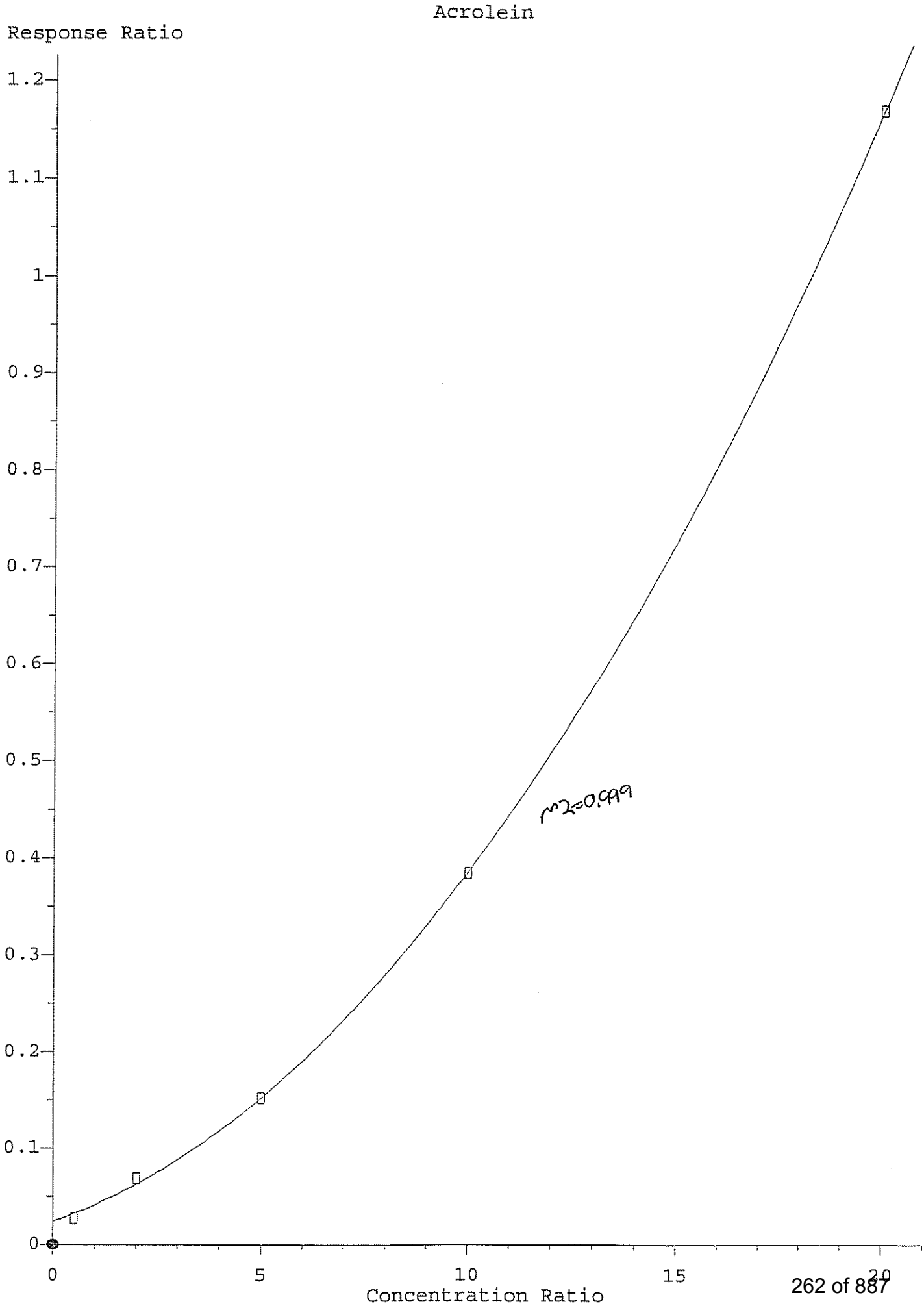
43)		Vinyl Acetate	0.355	0.307		0.299	0.425	0.399	0.357	15.52
44)		Benzene	1.162	1.016	0.997	1.042	1.084	1.166	1.078	6.77
45)		1,2-Dichloroet...	0.321	0.321	0.325	0.338	0.359	0.378	0.340	6.86
46)		Trichloroethene	0.302	0.290	0.250	0.265	0.269	0.282	0.276	6.77
47)		1,2-Dichloropr...	0.271	0.259	0.255	0.291	0.292	0.314	0.280	8.00
48)		Methyl methacr...	0.306	0.199	0.189	0.198	0.197	0.239	0.221	~~20.32~~ r2=0.99
49)		Dibromomethane	0.151	0.152	0.164	0.176	0.180	0.198	0.170	10.64
50)		Bromodichlorom...	0.384	0.294	0.339	0.371	0.375	0.400	0.361	10.59
51)		2-Chloroethylv...	0.166	0.177	0.173	0.188	0.198	0.226	0.188	11.62
52)		Cis-1,3-dichlo...	0.282	0.339		0.457	0.463	0.499	0.408	~~22.73~~ r2=0.99
53)	SS	Toluene-d8	1.145	1.137	1.147	0.834	1.137	1.258	1.110	12.88
54)		Toluene	0.558	0.576	0.613	0.509	0.688		0.589	11.38
55)		Trans-1,3-dich...	0.300		0.366	0.310	0.411	0.476	0.372	19.64
56)		Ethyl methacry...	0.350	0.351	0.329	0.276		0.437	0.349	16.62
57)		1,1,2-Trichlor...	0.267	0.199	0.198	0.162	0.215		0.208	18.35
58)	I	Chlorobenzene-d5	----------			ISTD	----------			
59)		4-Methyl-2-pen...	0.448	0.306	0.309	0.325	0.335	0.376	0.350	15.51
60)		2-Hexanone	0.310	0.216	0.205	0.233	0.226	0.248	0.240	15.66
61)		Tetrachloroethene	0.213	0.252	0.268	0.281	0.295	0.277	0.264	11.02
62)		1,3-Dichloropr...	0.377	0.381	0.401	0.426	0.425	0.421	0.405	5.47
63)		Dibromochlorom...	0.220	0.243	0.272	0.303	0.315	0.315	0.278	14.36
64)		1,2-Dibromoethane	0.213	0.229	0.251	0.272	0.268	0.275	0.251	10.06
65)		1-Chlorohexane	0.529	0.403	0.371	0.396	0.400	0.392	0.415	13.76
66)		Chlorobenzene	0.727	0.736	0.798	0.865	0.892	0.909	0.821	9.61
67)		1,1,1,2-Tetrac...	0.206		0.283	0.330	0.345	0.362	0.305	~~20.59~~ r2=0.999
68)		Ethylbenzene	1.250		1.301	1.441	1.467	1.554	1.403	8.89
69)		m,p-Xylene	0.497		0.533	0.593	0.610	0.662	0.579	11.23
70)		o-Xylene	0.464	0.535	0.537	0.607	0.623	0.660	0.571	12.59
71)		Xylene (Total)	0.486	0.528	0.536	0.601	0.614	0.670	0.573	11.81
72)		Styrene	0.844	0.875	0.906	1.015	1.024	1.094	0.959	10.27
73)		Bromoform	0.116	0.146	0.183	0.211	0.219	0.245	0.187	~~25.82~~ r2=0.99
74)		Isopropylbenzene	1.112	1.127	1.193	1.321	1.373	1.484	1.268	11.70
75)	SS	4-Bromofluorob...	0.493	0.497	0.482	0.500	0.491	0.514	0.496	2.12
76)		Bromobenzene	0.331		0.329	0.375	0.368	0.409	0.362	9.18
77)		1,1,2,2-Tetrac...	0.409	0.350	0.353	0.390	0.391	0.432	0.387	8.21
78)		1,2,3-Trichlor...	0.110	0.118	0.106	0.114	0.114	0.132	0.116	7.90
79)		n-Propylbenzene	1.491	1.574	1.624	1.835	1.809	1.975	1.718	10.71
80)		Trans-1,4-dich...	0.090	0.091	0.100	0.116	0.119	0.143	0.110	18.56
81)		2-Chlorotoluene	0.318	0.344	0.342	0.399	0.389	0.419	0.368	10.71
82)		4-Chlorotoluene	0.338		0.369	0.414	0.404	0.433	0.392	9.73
83)		1,3,5-Trimethy...	1.052		1.205	1.397	1.408	1.590	1.331	15.55
84)		Tert-butylbenzene	0.951		1.060	1.235	1.263	1.433	1.188	15.76
85)		Pentachloroethane							0.000	-1.00
86)		1,2,4-Trimethy...	1.269		1.244	1.445	1.449	1.671	1.416	12.12
87)		Sec-Butylbenzene	1.559		1.670	1.913	1.912	2.147	1.840	12.53
88)		1,3-Dichlorobe...	0.718		0.695	0.816	0.814	0.982	0.805	14.06
89)		4-Isopropyltol...	1.343	1.326	1.420	1.664	1.697	2.024	1.579	17.07
90)		1,4-Dichlorobe...	0.716		0.720	0.833	0.822	0.928	0.804	11.04
91)	SS	1,2-Dichlorobe...	0.527	0.540	0.530	0.544	0.532	0.576	0.541	3.33
92)		1,2-Dichlorobe...	0.720		0.691	0.789	0.783	0.884	0.773	9.59
93)		n-Butylbenzene	1.464	1.337	1.352	1.543	1.549	1.732	1.496	9.82
94)		1,2-Dibromo-3-...	0.065	0.072	0.069	0.079	0.078	0.096	0.077	14.47
95)		1,2,4-Trichlor...	0.544		0.445	0.520	0.509	0.627	0.529	12.45
96)		Hexachlorobuta...	0.281		0.192	0.208	0.221	0.274	0.235	17.09

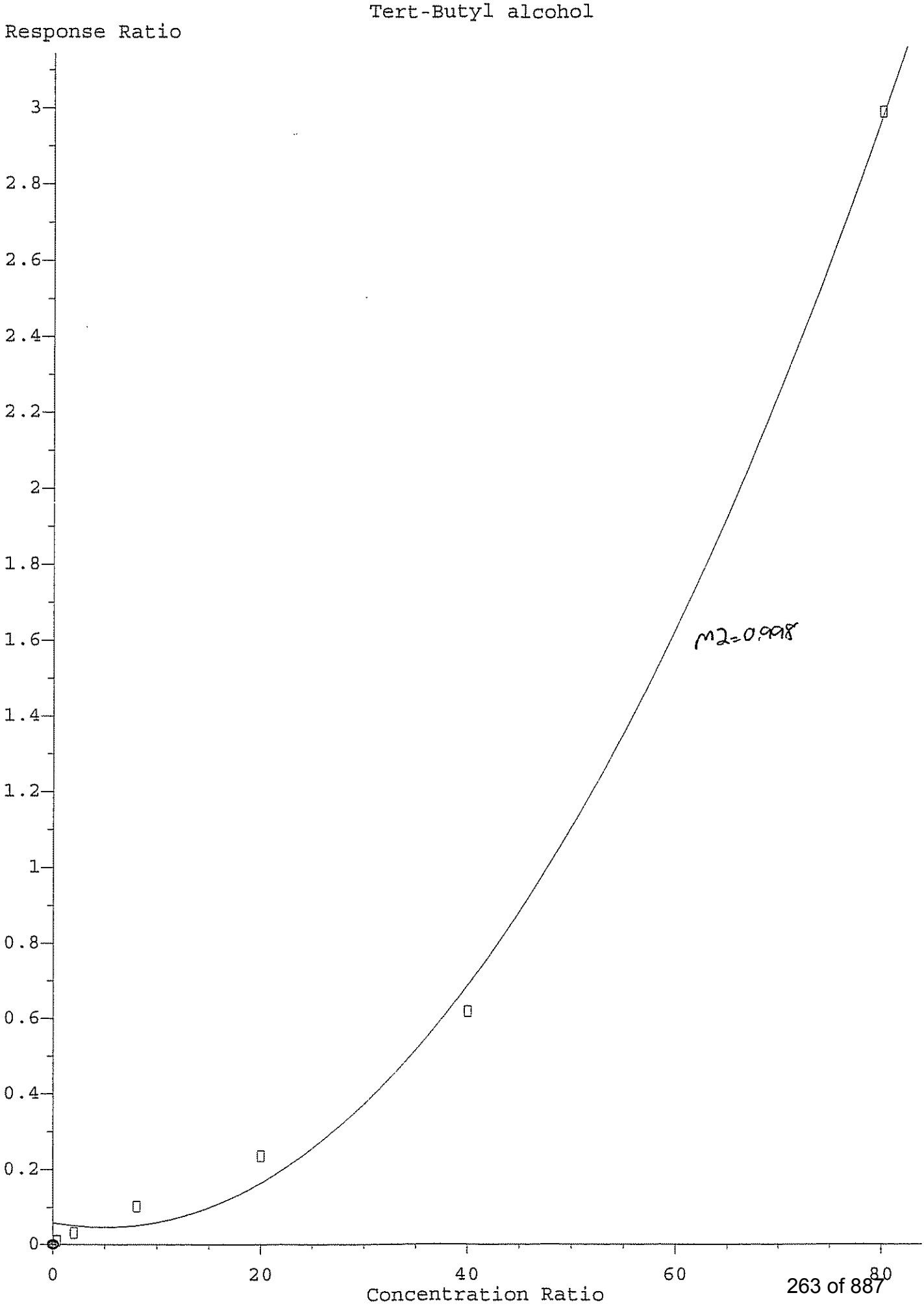
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

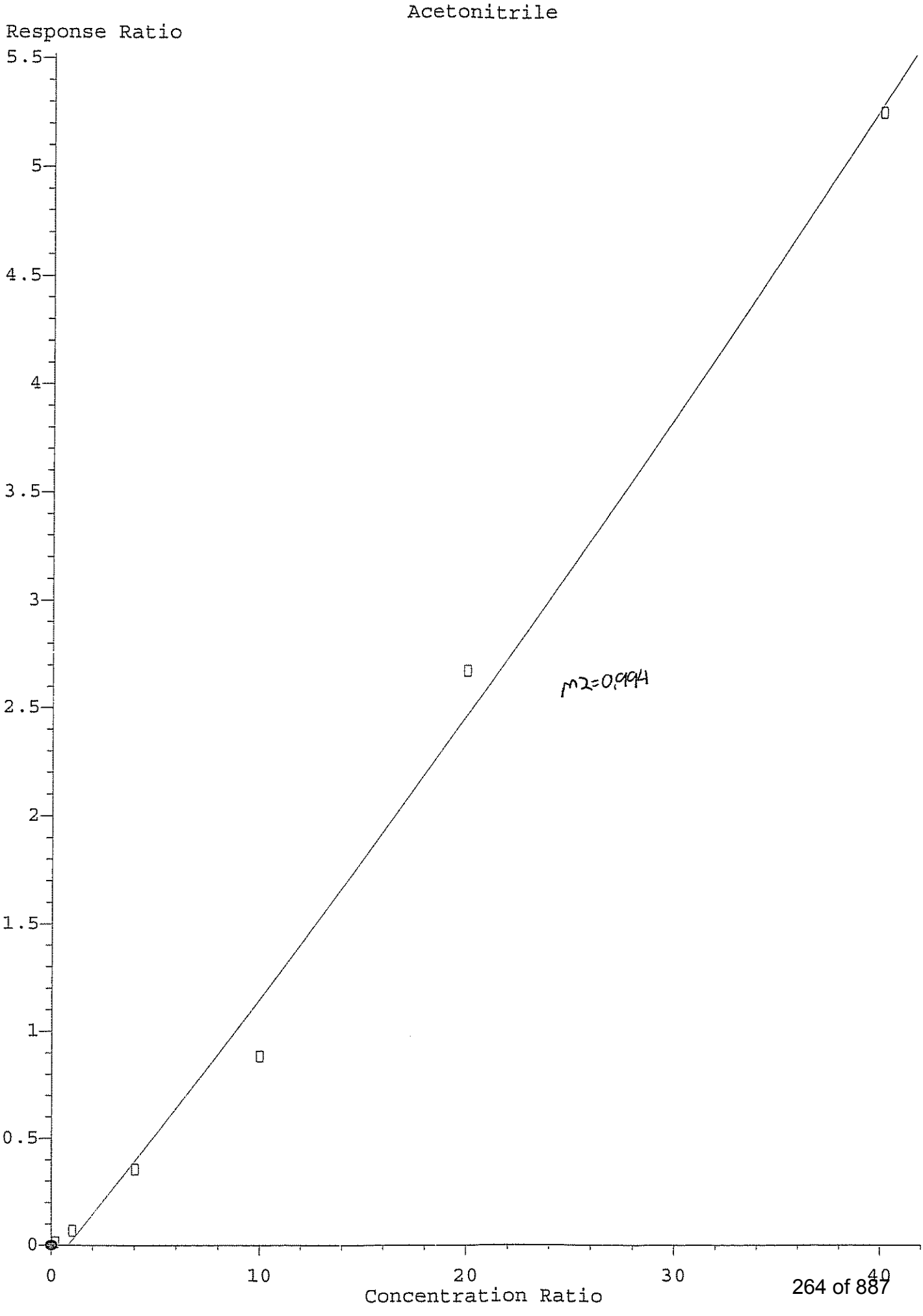
97)	Naphthalene	1.475	1.372	1.280	1.433	1.414	1.706	1.447	9.91
98)	1,2,3-Trichlor...	0.492		0.401	0.469	0.454	0.549	0.473	11.47

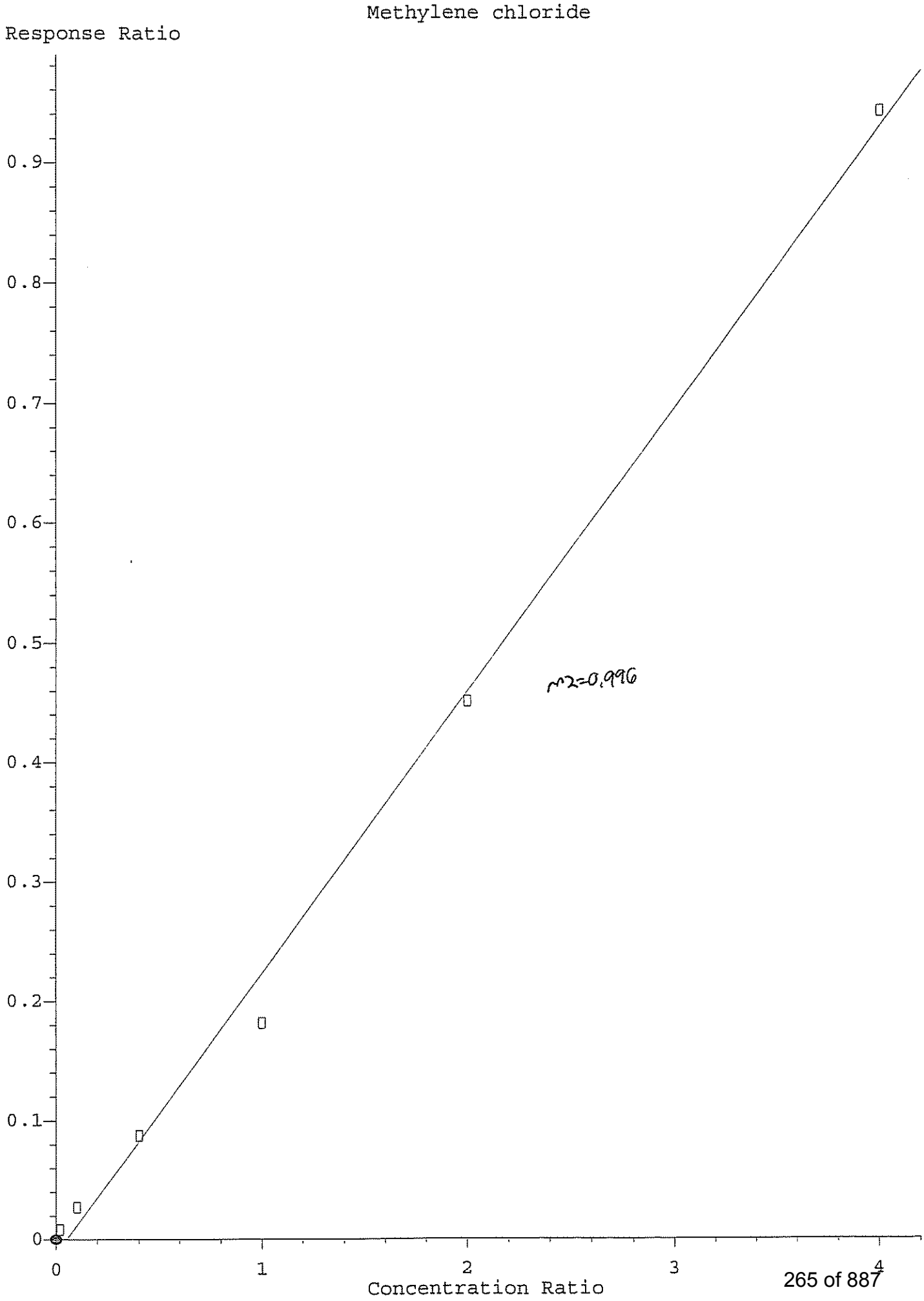
(#) = Out of Range

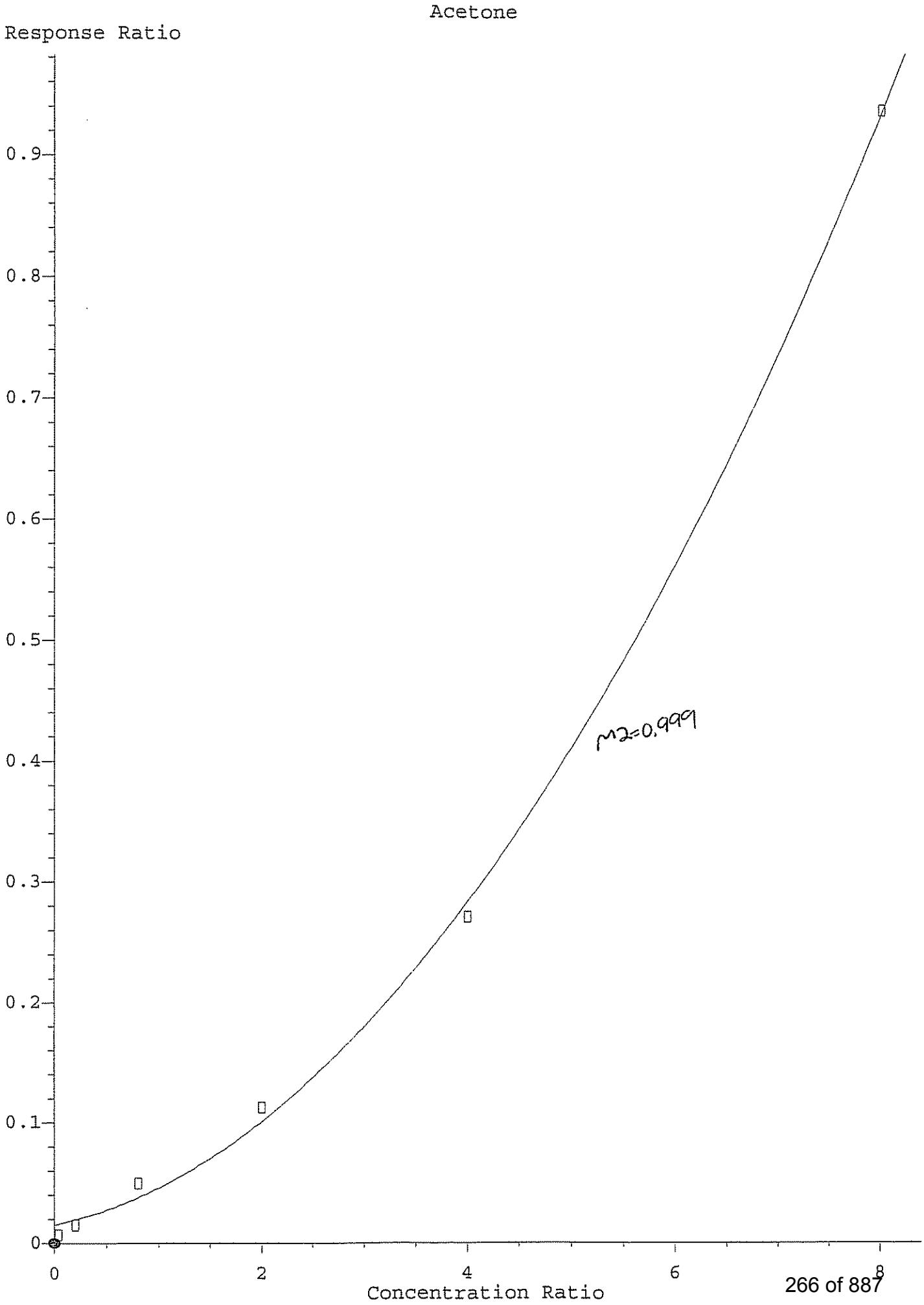

Vinyl chloride
Response Ratio
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
R2=0.995

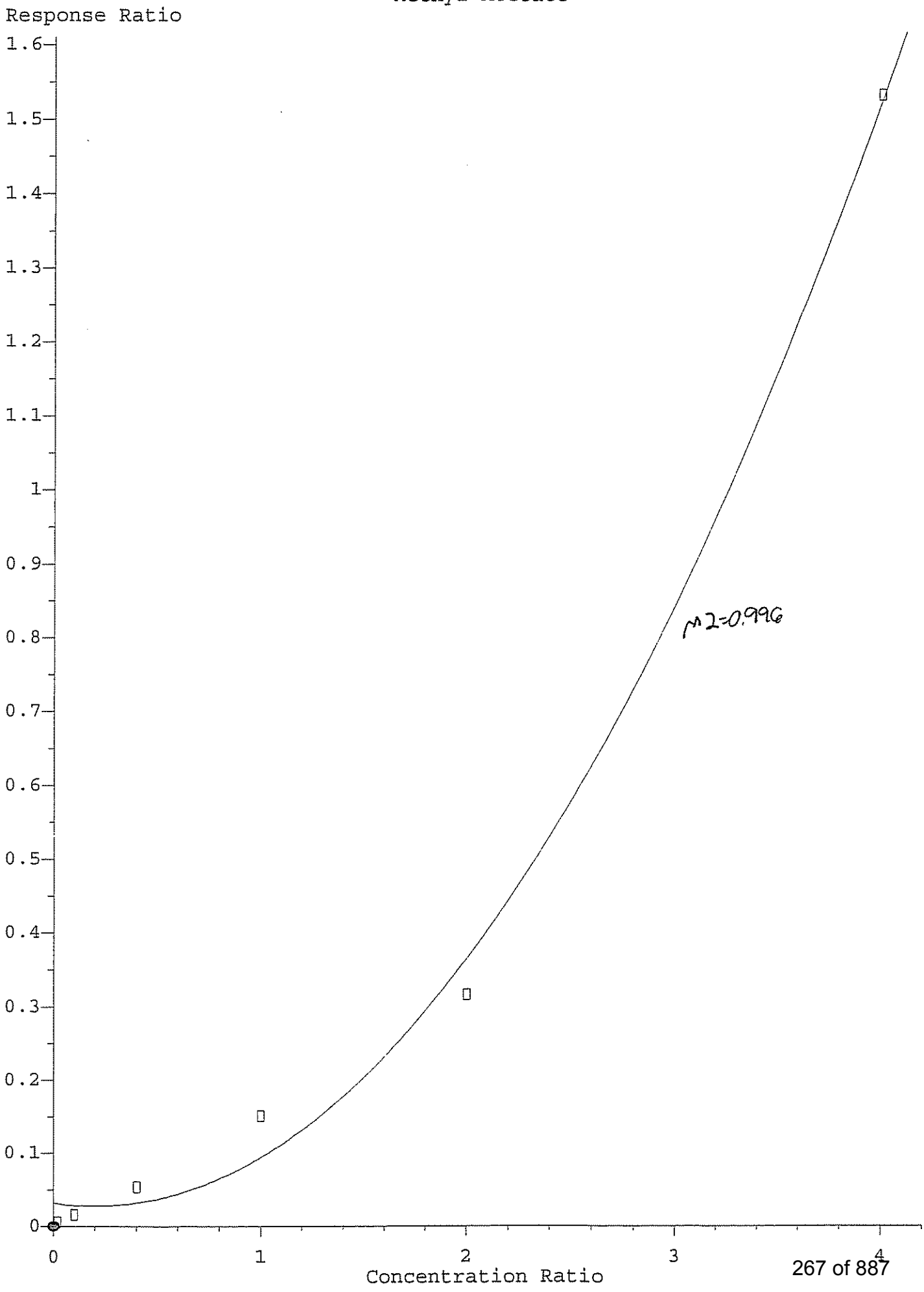

Acrolein
Response Ratio
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5
10
15
20
Concentration Ratio
r^2=0.999

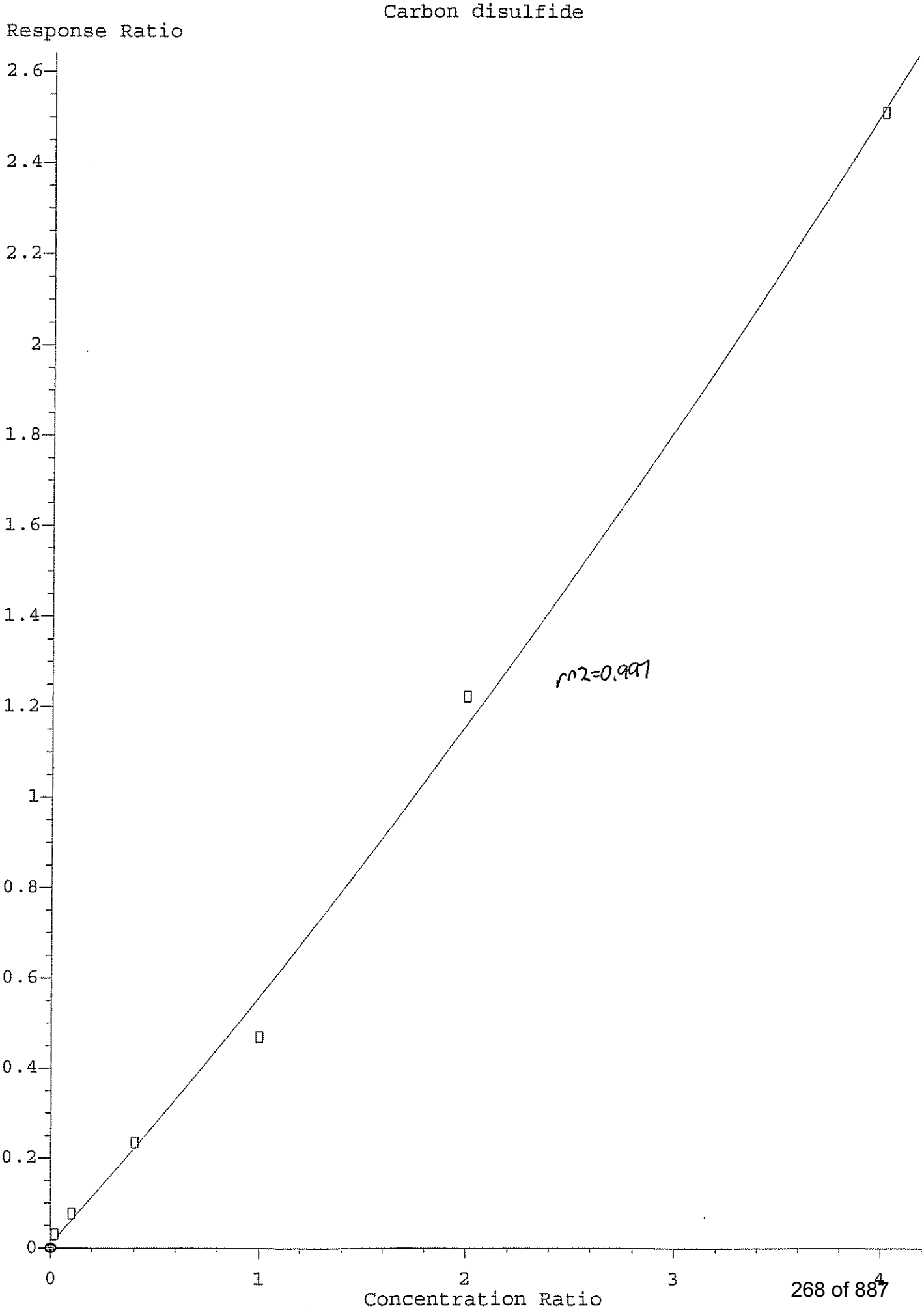

Tert-Butyl alcohol
Response Ratio
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
Concentration Ratio
r2=0.998

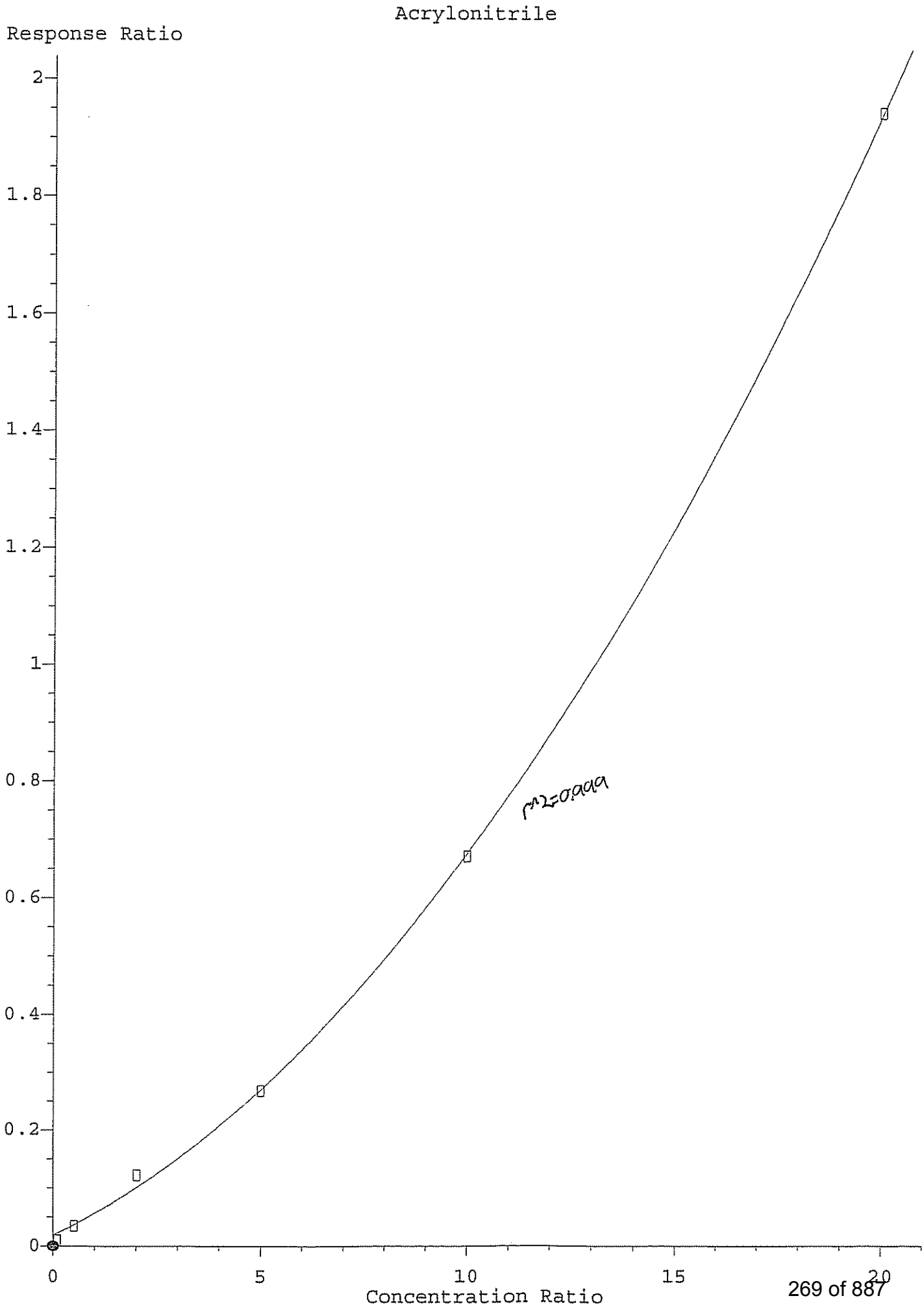

Acetonitrile
Response Ratio
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0
10
20
30
40
Concentration Ratio
r2=0.9941

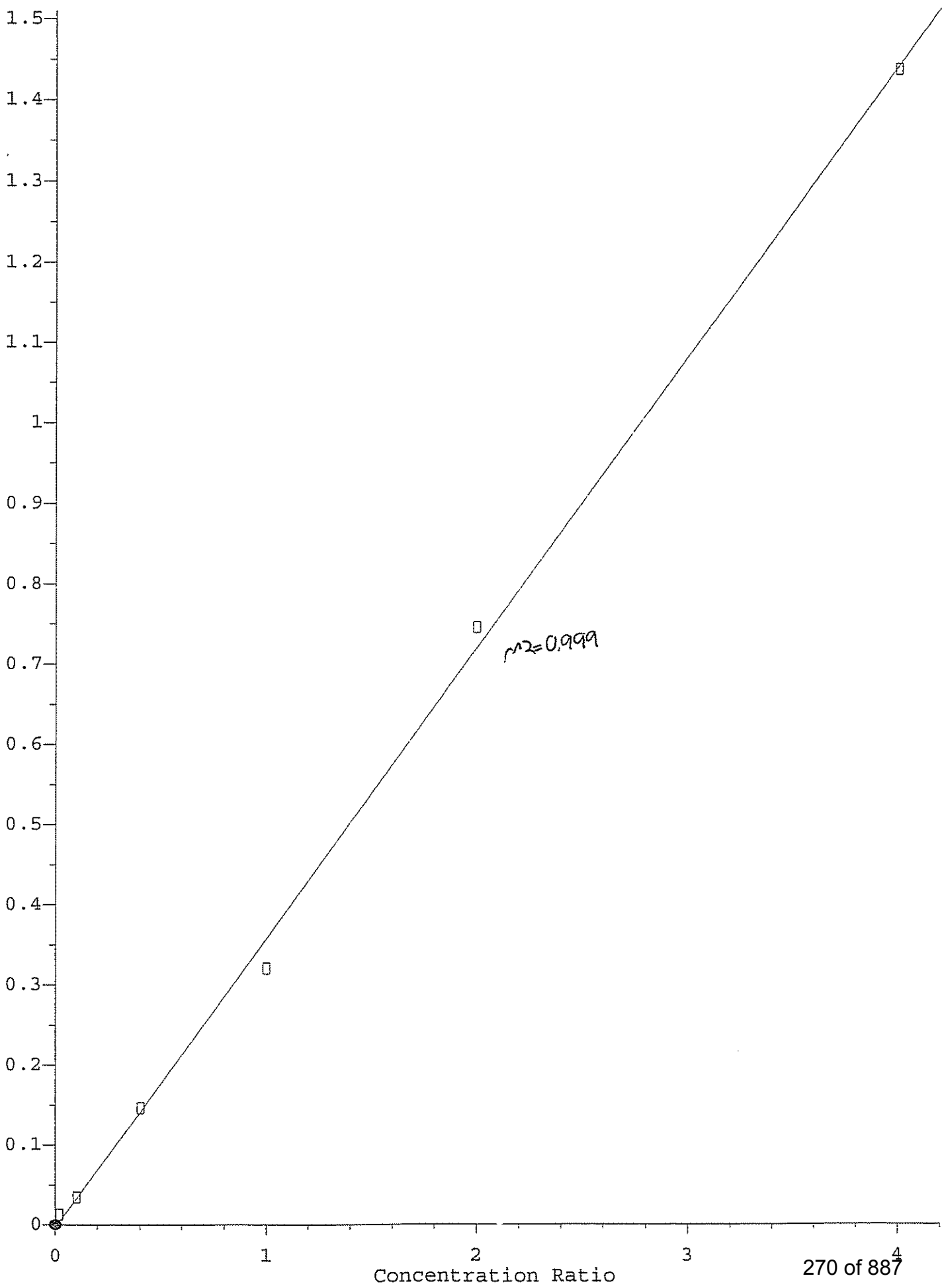

Methylene chloride
Response Ratio
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.996

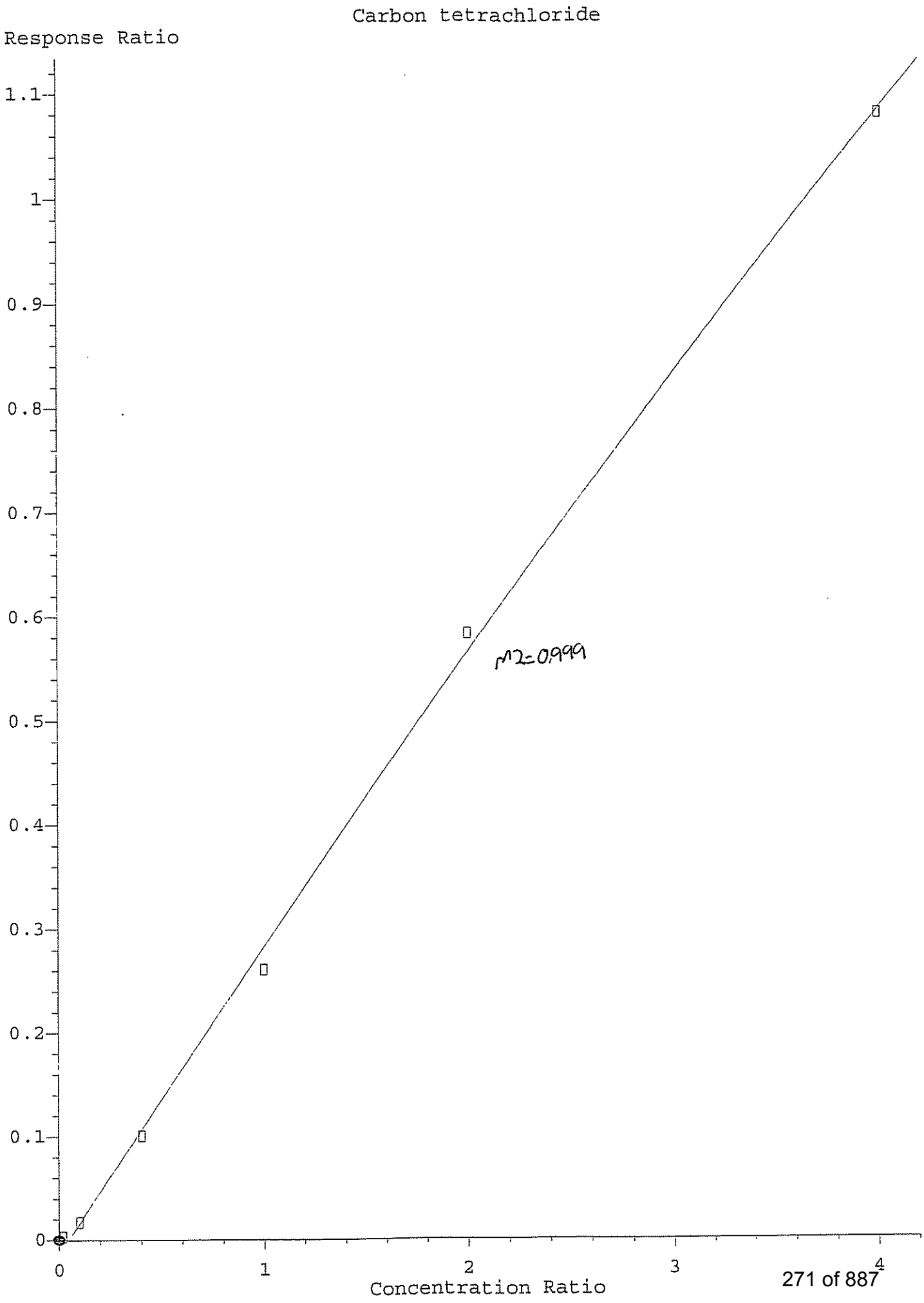

Acetone
Response Ratio
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
2
4
6
8
Concentration Ratio
R2=0.999

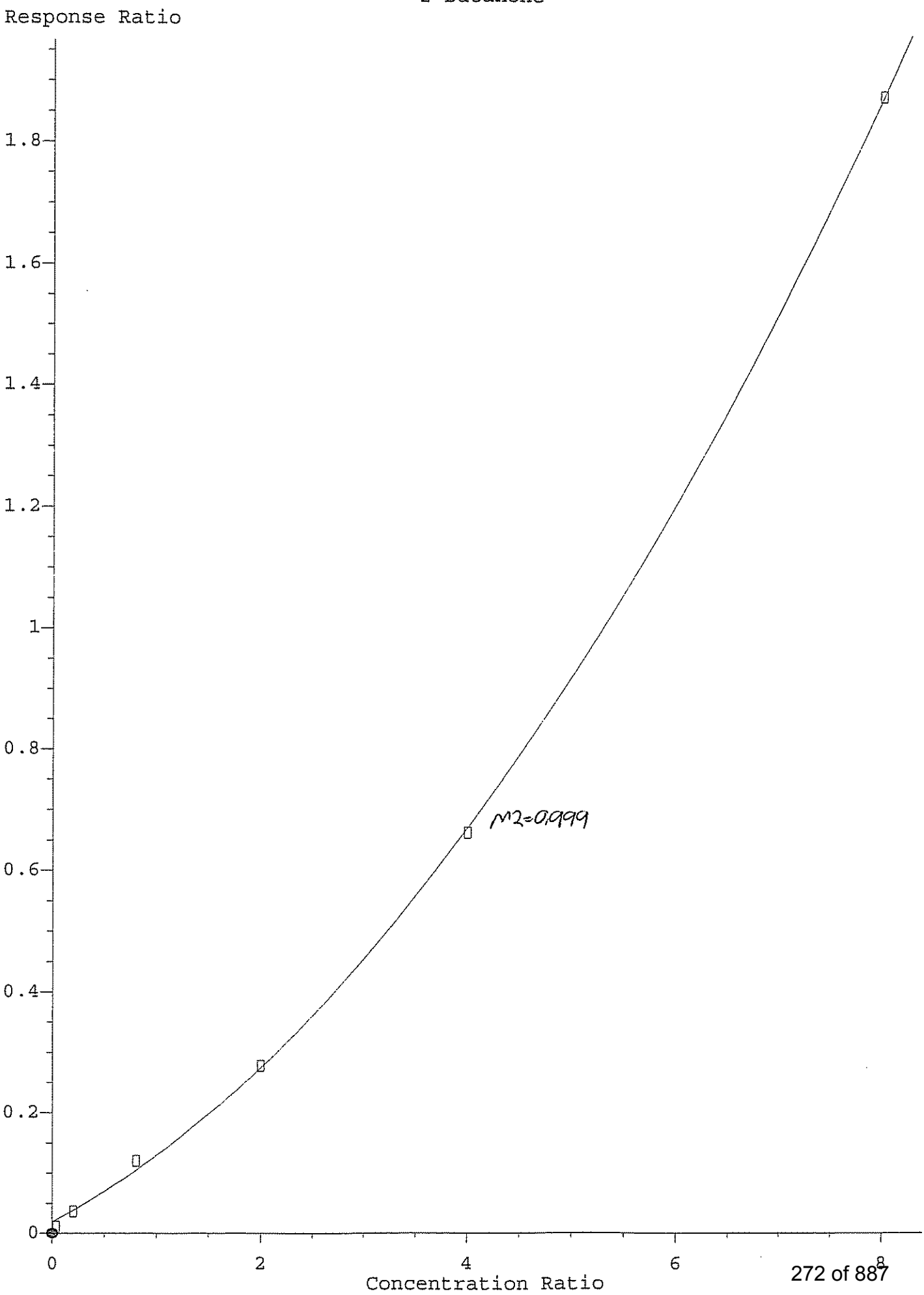

Methyl Acetate
Response Ratio
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.996

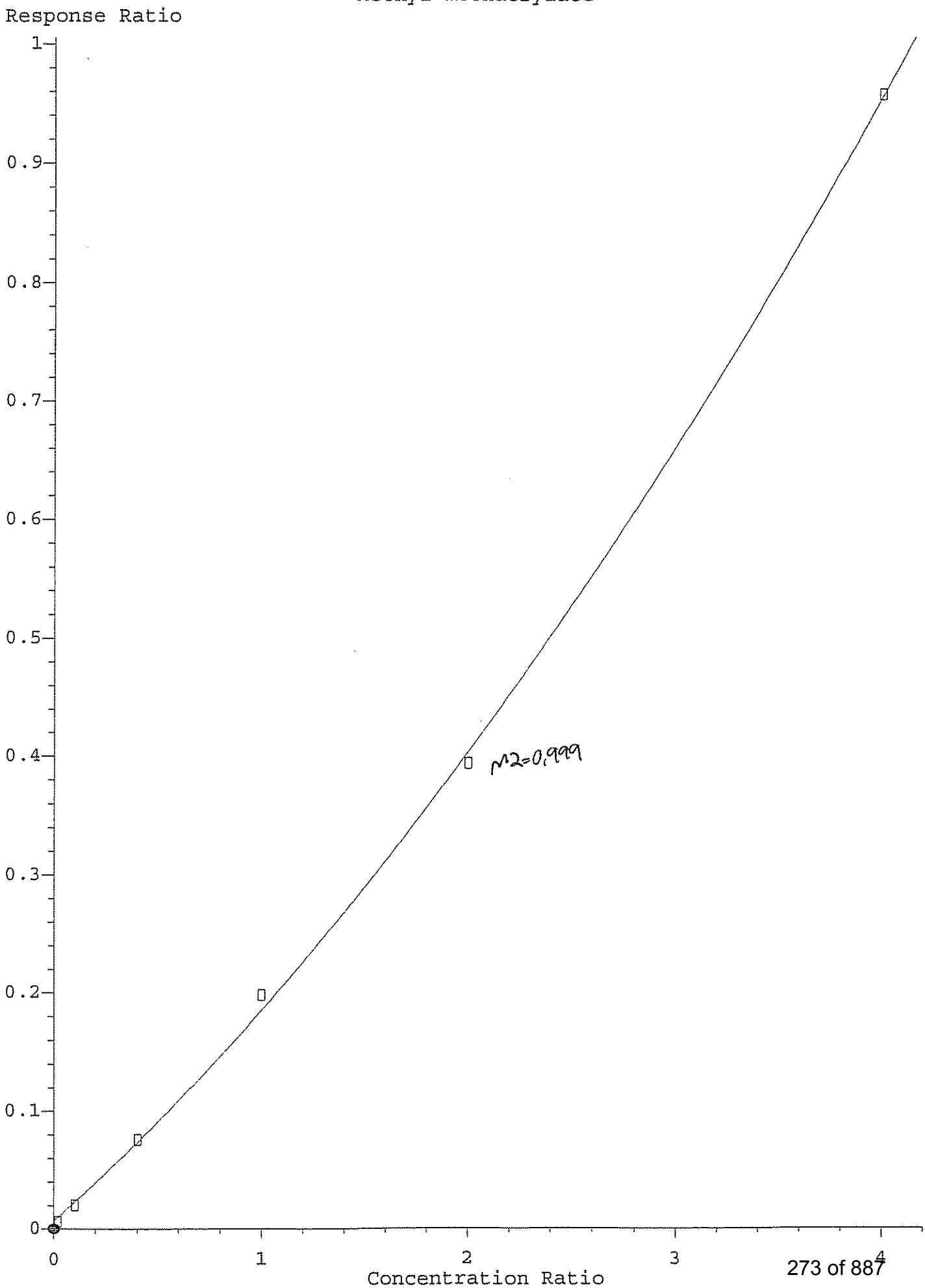

Carbon disulfide
Response Ratio
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
Concentration Ratio
r^2=0.997

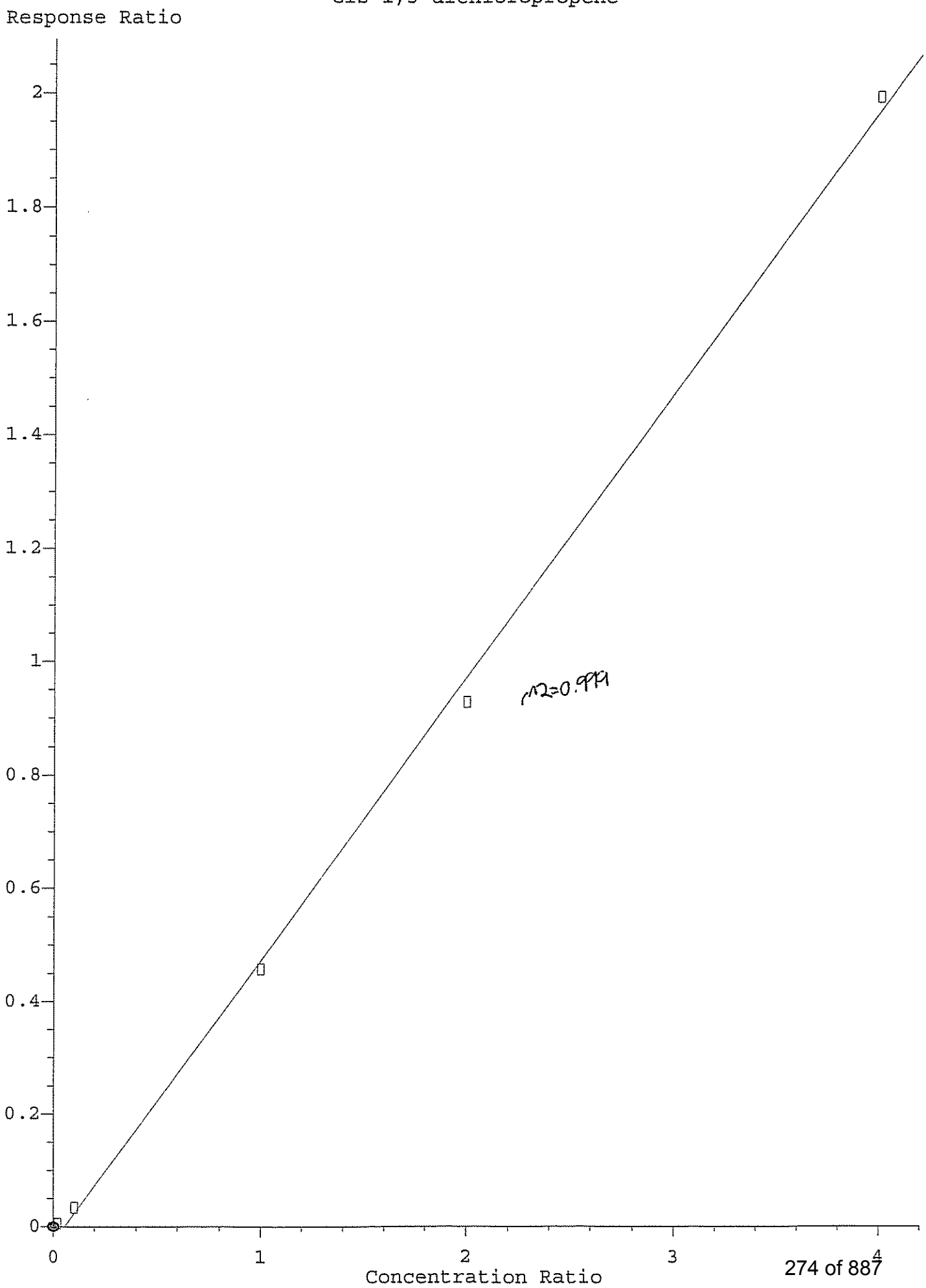

Acrylonitrile
Response Ratio
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
5
10
15
20
Concentration Ratio
r^2=0.999

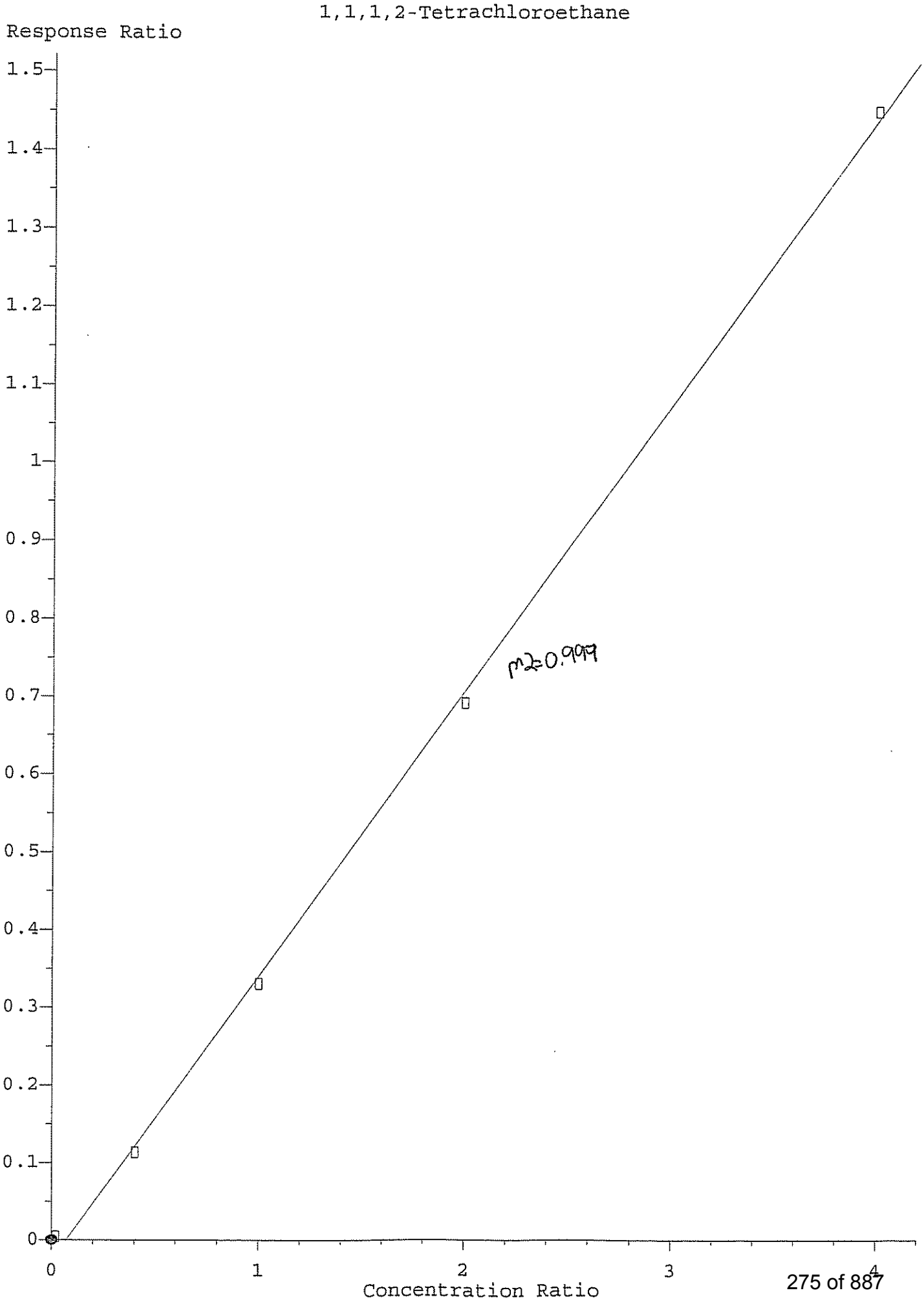

Cyclohexane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.999

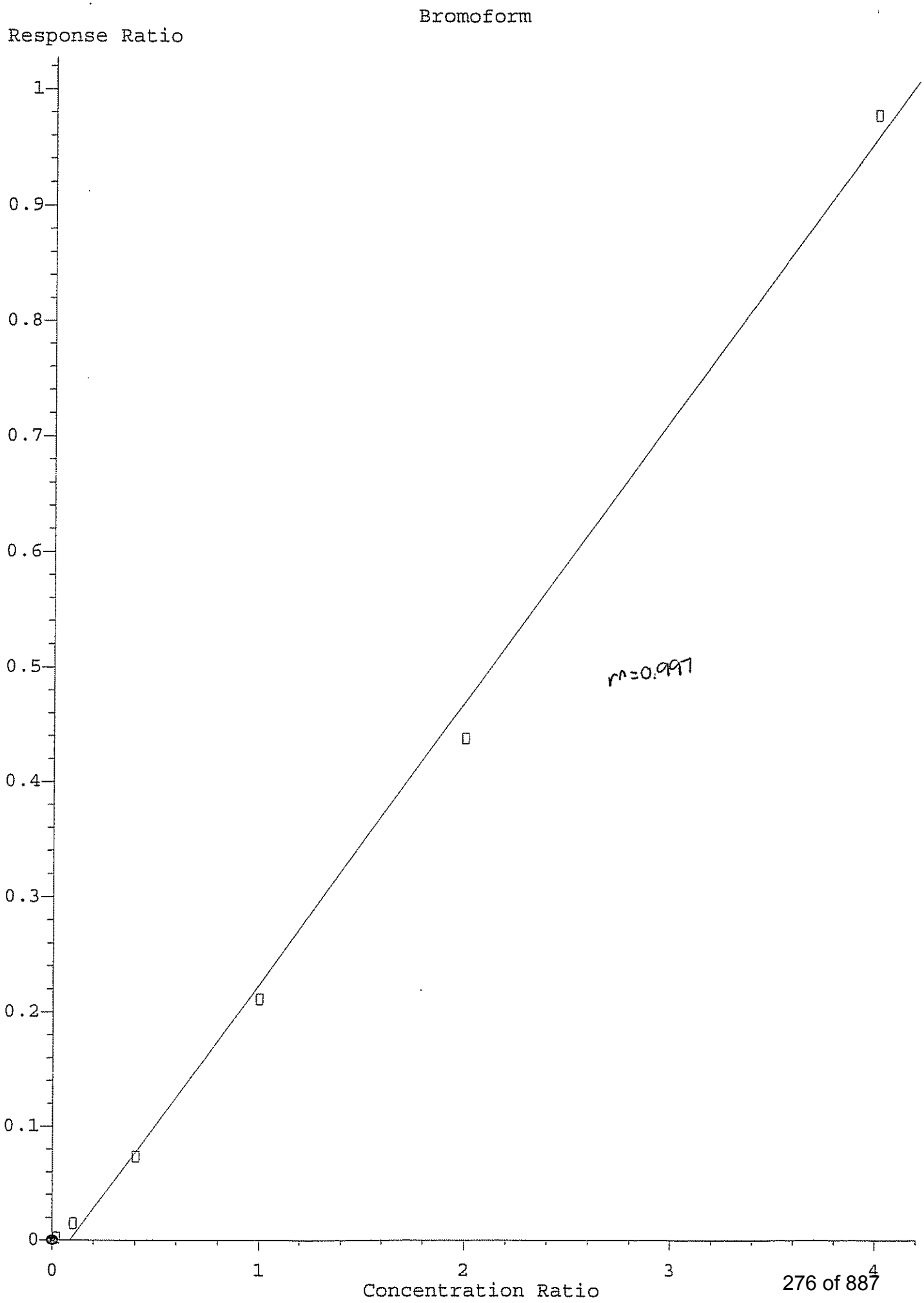

Carbon tetrachloride
Response Ratio
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
R2=0.999


2-Butanone
Response Ratio
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
Concentration Ratio
R2=0.999


Methyl methacrylate
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
R2=0.999


Cis-1,3-dichloropropene
Response Ratio
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
Concentration Ratio
r^2=0.999


1,1,1,2-Tetrachloroethane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.999


Bromoform
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
rr=0.997

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	377073	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.682	114	304611	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.779	117	279674	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	103238	49.47	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.94%				
53) Toluene-d8	6.148	98	348876	51.93	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.86%				
75) 4-Bromofluorobenzene	8.881	95	137930	49.64	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.28%				
91) 1,2-Dichlorobenzene-d4	10.085	152	147273	48.38	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 96.76%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.205	85	908m	1.08	ug/L		
3) Chloromethane	1.349	50	977m	0.75	ug/L		
4) Vinyl chloride	1.413	62	1008	0.69	ug/L	#	1
5) Bromomethane	1.649	94	531m	0.99	ug/L		
6) Chloroethane	1.718	64	1257m	1.22	ug/L		
7) Trichlorofluoromethane	1.857	101	1271	0.55	ug/L		93
8) Ethyl Ether	2.061	59	1384	0.99	ug/L	#	70
9) Freon 113	2.200	101	1404	1.12	ug/L		82
10) Acrolein	2.205	56	1609	4.92	ug/L	#	89
11) Tert-Butyl alcohol	2.681	59	3937	28.22	ug/L	#	47
12) 1,1-Dichloroethene	2.226	96	1533	1.13	ug/L	#	54
14) Acetonitrile	2.499	40	5117m	6.66	ug/L		
15) Methylene chloride	2.606	84	3076	1.80	ug/L	#	75
16) Trans-1,2-dichloroethene	2.772	96	1748	1.20	ug/L	#	57
17) Isopropyl ether	3.098	45	6412	1.07	ug/L		100
18) 1,1-Dichloroethane	3.125	63	2581	0.95	ug/L		92
19) Acetone	2.312	43	2590	4.54	ug/L		94
20) Methyl Acetate	4.265	43	2042	1.38	ug/L	#	100
21) MTBE	2.751	73	4358	1.00	ug/L		100
22) Carbon disulfide	2.371	76	11482	2.49	ug/L		100
24) Acrylonitrile	2.847	53	3898	7.42	ug/L	#	77
25) Chloroprene	3.157	53	2858	1.14	ug/L	#	80
26) n-Heptane	4.447	71	1757m	1.44	ug/L		
27) 2,2-Dichloropropane	3.558	77	2277	1.05	ug/L	#	64
28) Cis-1,2-dichloroethene	3.591	96	2179	1.27	ug/L	#	76
29) 1,2-dichloroethene(total)	3.591	96	5955m	3.64	ug/L		

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
30) Propionitrile	3.746	54	3210	12.83 ug/L #	74
31) Bromochloromethane	3.794	128	903	1.05 ug/L	74
32) Tetrahydrofuran	3.617	72	479	1.08 ug/L	97
33) Chloroform	3.842	83	3682	1.26 ug/L	85
34) Cyclohexane	3.949	56	4709	1.77 ug/L #	88
35) 1,1,1-Trichloroethane	3.965	97	2280	0.98 ug/L	93
36) Carbon tetrachloride	4.077	117	1133	0.60 ug/L #	72
37) Methylcyclohexane	4.998	83	2816	1.11 ug/L #	93
38) Isobutyl Alcohol	4.441	43	3165	28.20 ug/L	89
41) 2-Butanone	3.623	43	3360	3.16 ug/L	92
42) 1,1-Dichloropropene	4.104	75	1940	0.97 ug/L	100
43) Vinyl Acetate	3.147	43	2161	0.99 ug/L #	84
44) Benzene	4.291	78	7079	1.10 ug/L	100
45) 1,2-Dichloroethane	4.388	62	1957	0.93 ug/L #	67
46) Trichloroethene	4.891	95	1839	1.11 ug/L	95
47) 1,2-Dichloropropane	5.163	63	1654	0.96 ug/L	89
48) Methyl methacrylate	5.270	69	1862m	1.49 ug/L	
49) Dibromomethane	5.292	93	922	0.87 ug/L #	71
50) Bromodichloromethane	5.436	83	2340	1.08 ug/L #	98
51) 2-Chloroethylvinyl ether	5.779	63	4042	3.45 ug/L	95
52) Cis-1,3-dichloropropene	5.912	75	1717	0.64 ug/L	98
54) Toluene	6.223	92	3397	0.93 ug/L	84
55) Trans-1,3-dichloropropene	6.570	75	1829	0.77 ug/L	95
56) Ethyl methacrylate	6.624	69	2131m	1.00 ug/L	
57) 1,1,2-Trichloroethane	6.779	83	1626	1.38 ug/L #	72
59) 4-Methyl-2-pentanone	6.100	43	5007	2.71 ug/L #	83
60) 2-Hexanone	7.068	43	3469	2.75 ug/L	94
61) Tetrachloroethene	6.795	166	1189	0.77 ug/L #	58
62) 1,3-Dichloropropane	6.977	76	2111	0.92 ug/L #	56
63) Dibromochloromethane	7.175	129	1232	0.76 ug/L	97
64) 1,2-Dibromoethane	7.314	107	1194	0.82 ug/L	98
65) 1-Chlorohexane	7.790	91	2961	1.35 ug/L #	47
66) Chlorobenzene	7.806	112	4068	0.87 ug/L #	81
67) 1,1,1,2-Tetrachloroethane	7.913	131	1153	0.67 ug/L #	18
68) Ethylbenzene	7.902	91	6991	0.87 ug/L	98
69) m,p-Xylene	8.020	106	5561	1.66 ug/L	92
70) o-Xylene	8.395	106	2594	0.78 ug/L	85
71) Xylene (Total)	8.020	106	8155m	2.47 ug/L	
72) Styrene	8.421	104	4721	0.86 ug/L	91
73) Bromoform	8.598	173	650	0.58 ug/L	100
74) Isopropylbenzene	8.716	105	6220	0.86 ug/L	99
76) Bromobenzene	8.999	156	1850	0.89 ug/L	88

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration

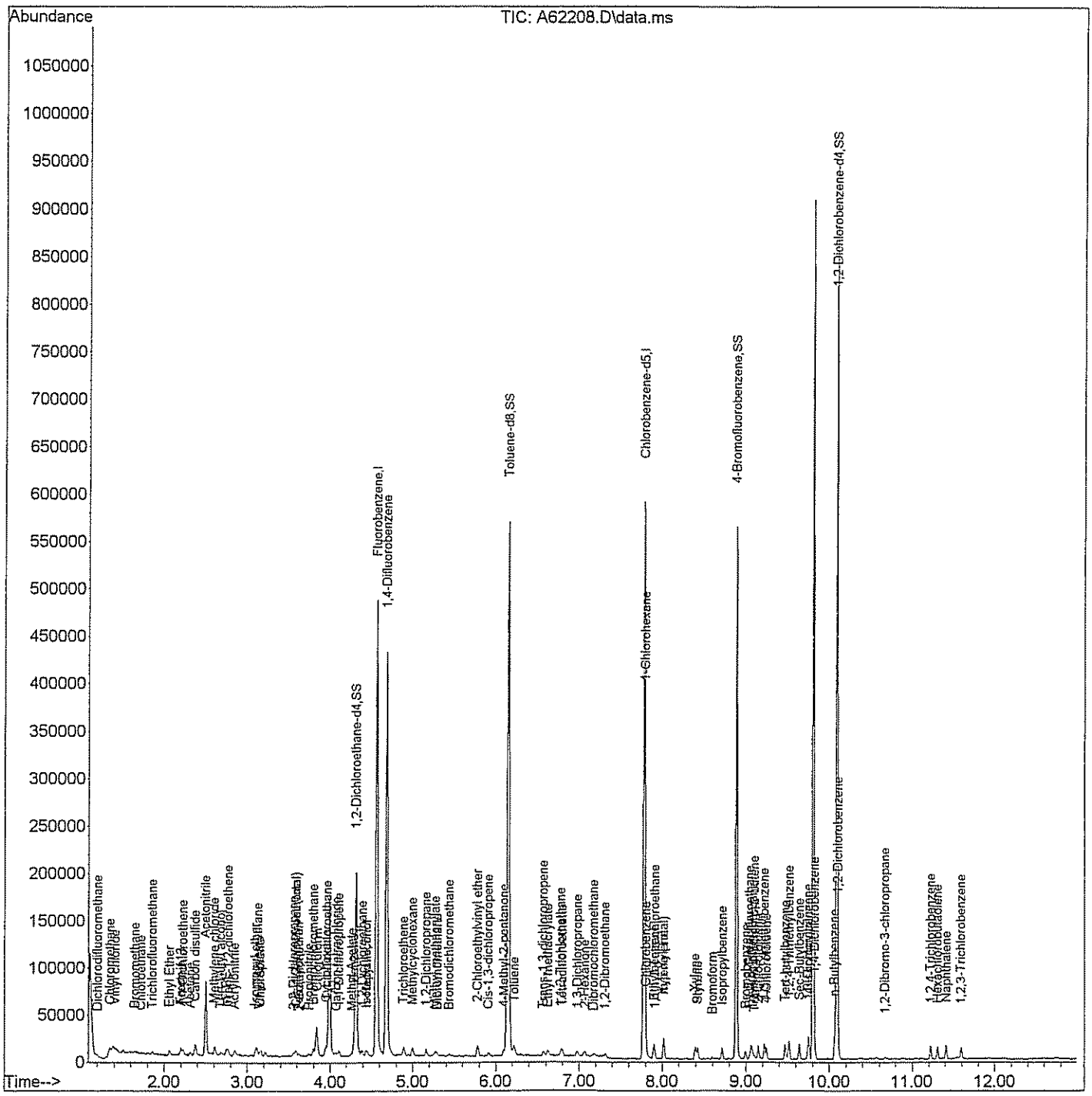
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) 1,1,2,2-Tetrachloroethane	9.047	83	2290	1.07 ug/L	94
78) 1,2,3-Trichloropropane	9.085	110	616	0.94 ug/L	94
79) n-Propylbenzene	9.069	91	8340	0.85 ug/L	93
80) Trans-1,4-dichloro-2-b...	9.106	53	503	0.79 ug/L #	25
81) 2-Chlorotoluene	9.154	126	1779	0.84 ug/L	92
82) 4-Chlorotoluene	9.245	126	1890	0.83 ug/L	98
83) 1,3,5-Trimethylbenzene	9.224	105	5886	0.75 ug/L	88
84) Tert-butylbenzene	9.470	119	5321	0.76 ug/L	92
86) 1,2,4-Trimethylbenzene	9.518	105	7100	0.87 ug/L	99
87) Sec-Butylbenzene	9.641	105	8721	0.82 ug/L	97
88) 1,3-Dichlorobenzene	9.743	146	4018	0.87 ug/L	98
89) 4-Isopropyltoluene	9.753	119	7514	0.83 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	4003m	0.87 ug/L	
92) 1,2-Dichlorobenzene	10.101	146	4028m	0.92 ug/L	
93) n-Butylbenzene	10.058	91	8187	0.97 ug/L	96
94) 1,2-Dibromo-3-chloropr...	10.674	75	363	0.82 ug/L #	67
95) 1,2,4-Trichlorobenzene	11.225	180	3045	1.04 ug/L	96
96) Hexachlorobutadiene	11.305	225	1574	1.26 ug/L	87
97) Naphthalene	11.412	128	8253	1.02 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	2750	1.05 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

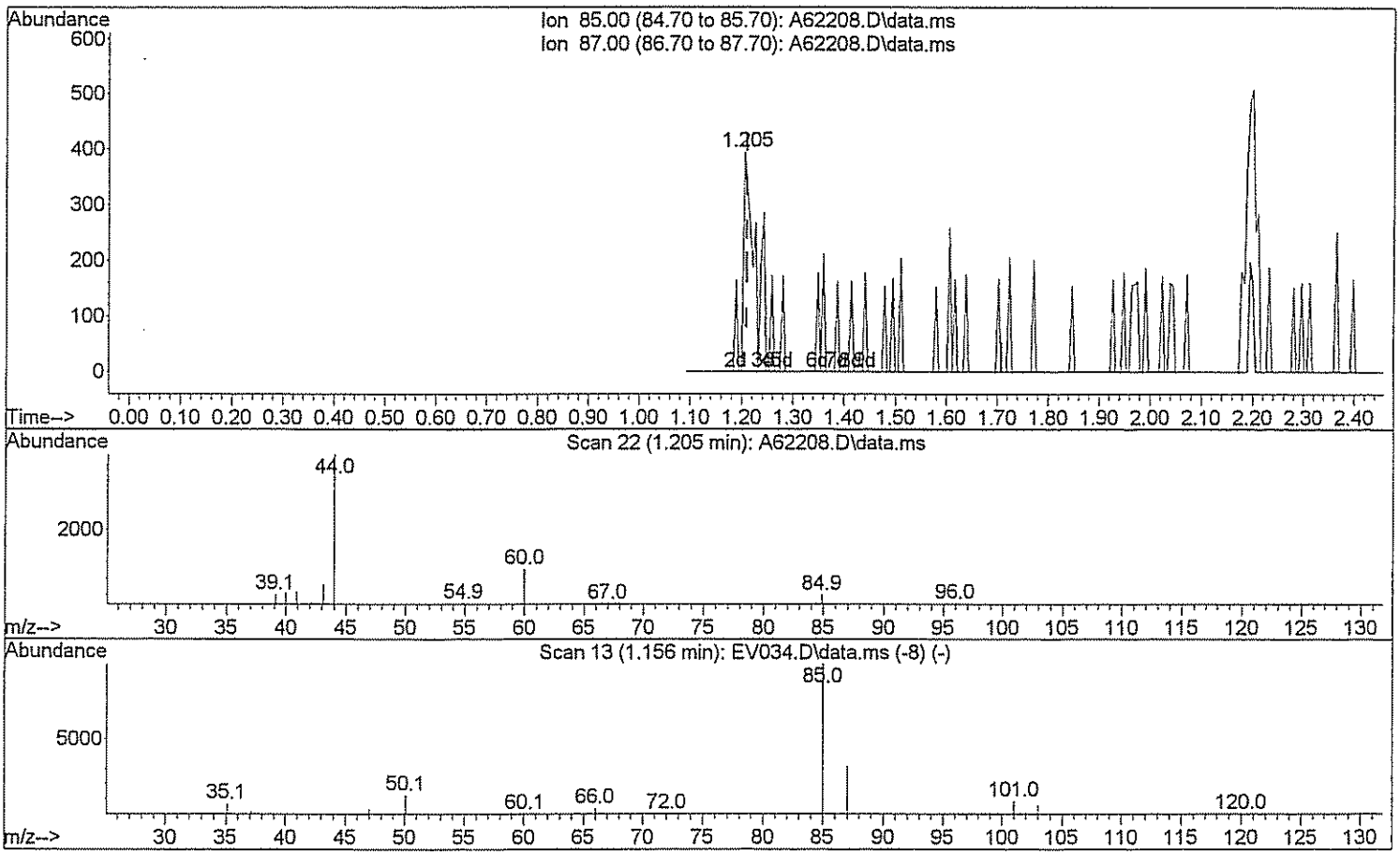
Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(2) Dichlorodifluoromethane

1.205min (-0.005) 0.55 ug/L

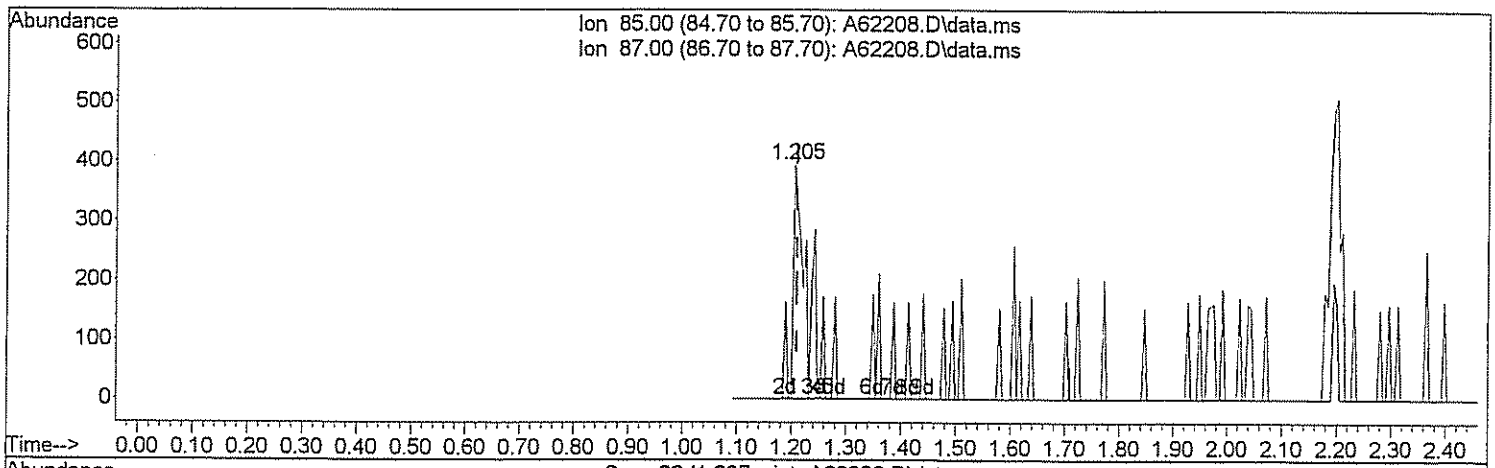
response 463

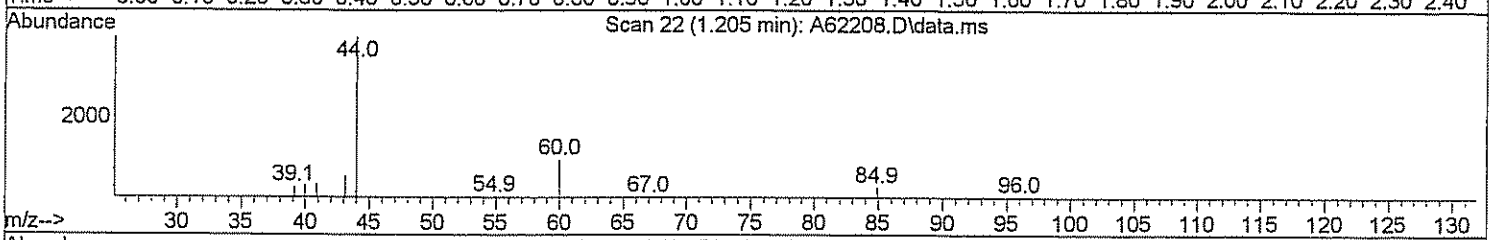
Ion	Exp%	Act%
85.00	100	100
87.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

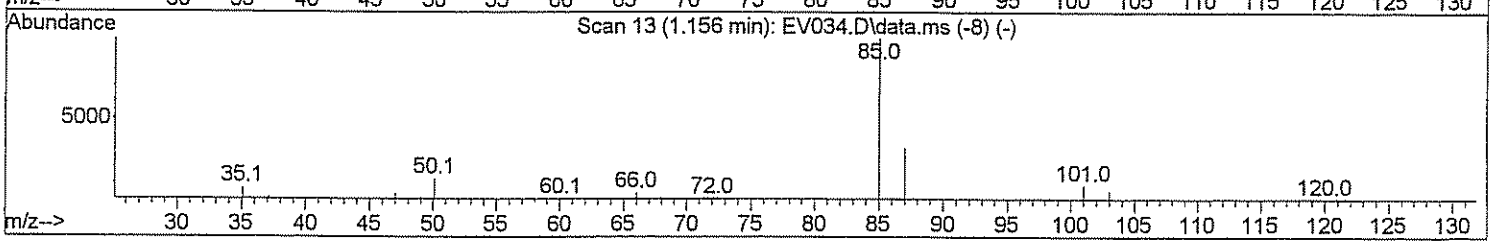
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration







TIC: A62208.D\data.ms

(2) Dichlorodifluoromethane

1.205min (-0.005) 1.08 ug/L m DW 3/12/09

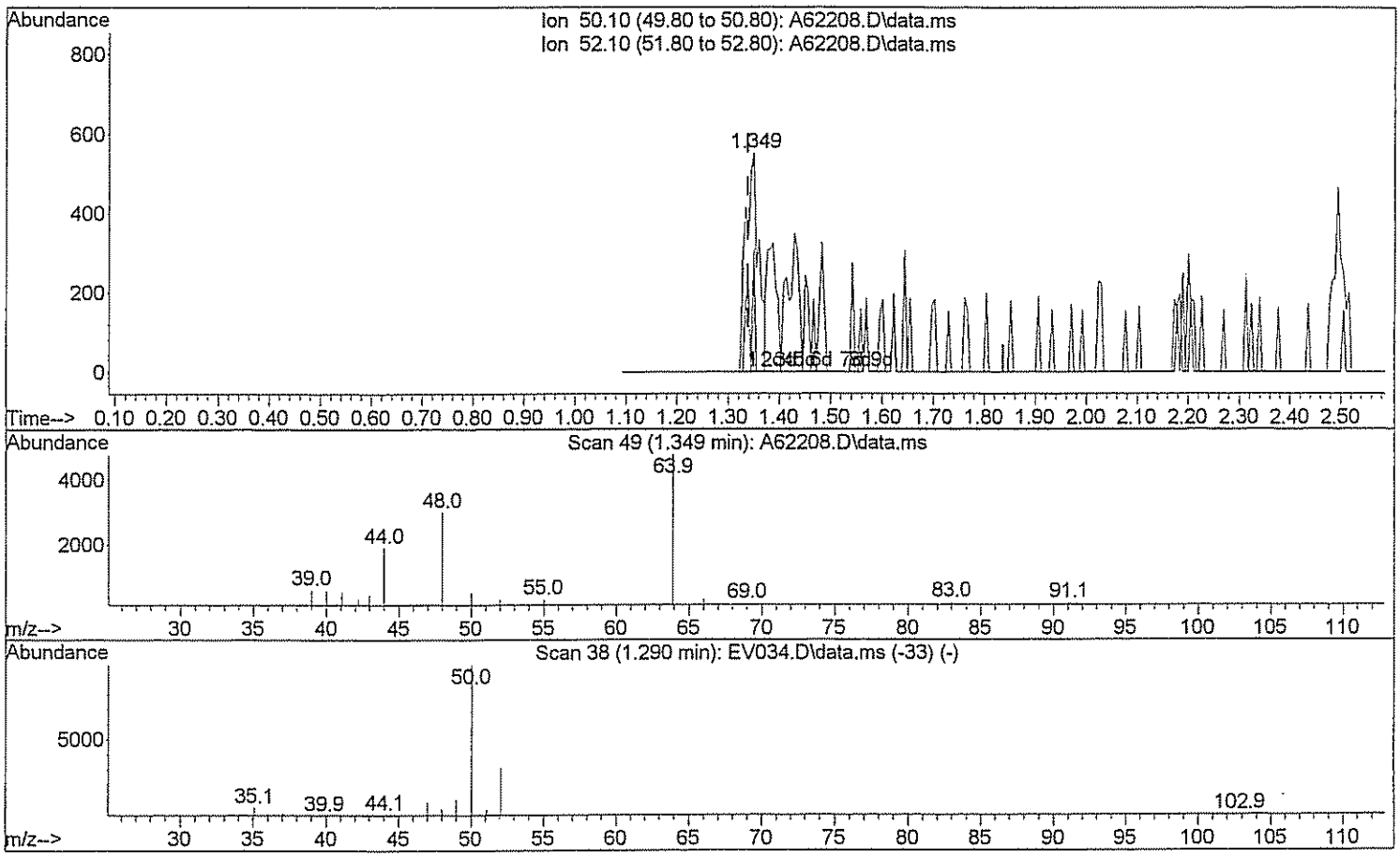
response 908

Ion	Exp%	Act%
85.00	100	100
87.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(3) Chloromethane

1.349min (+0.011) 0.75 ug/L

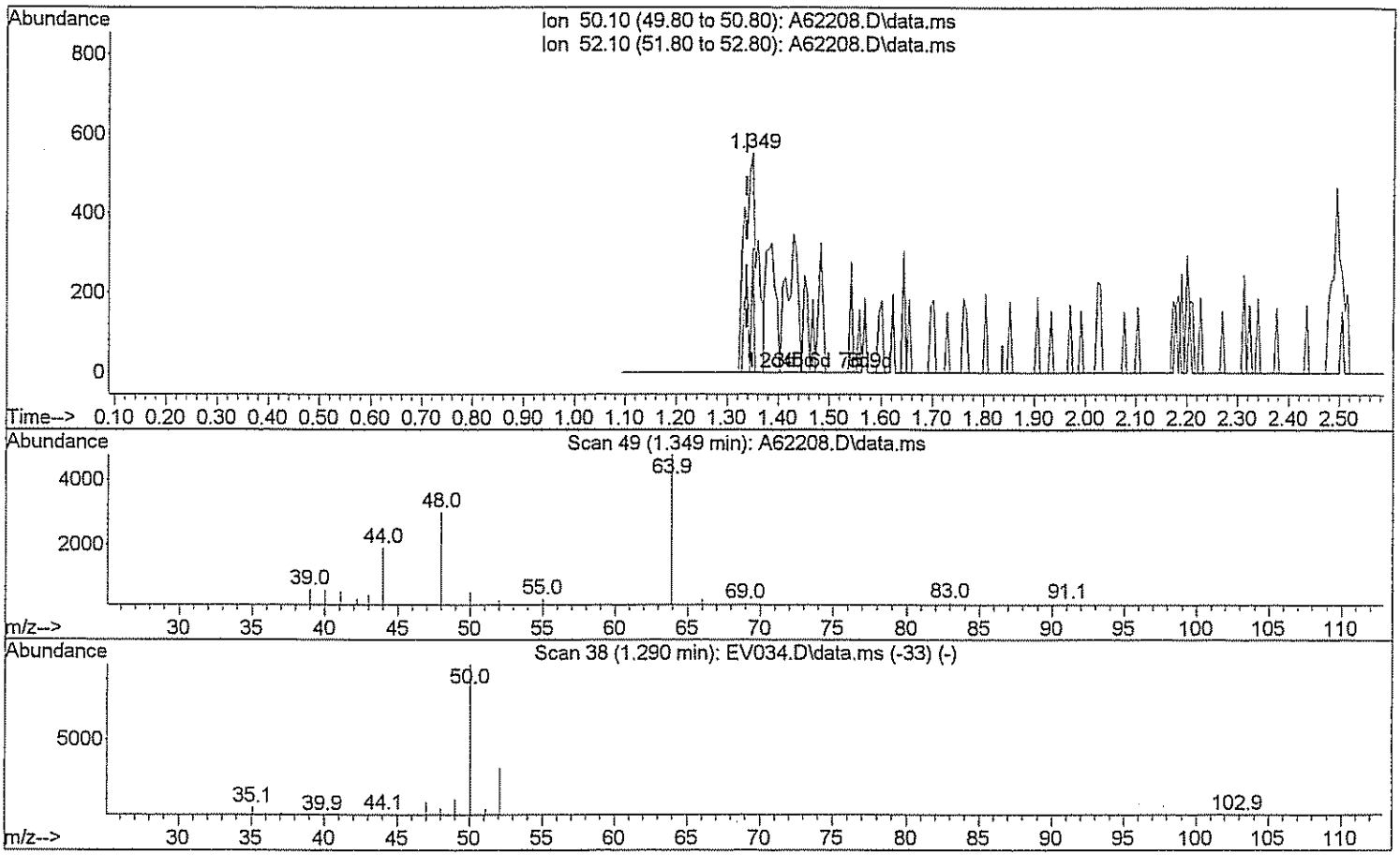
response 977

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	12.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(3) Chloromethane

1.349min (+0.011) 0.75 ug/L m Sm 3/12/09

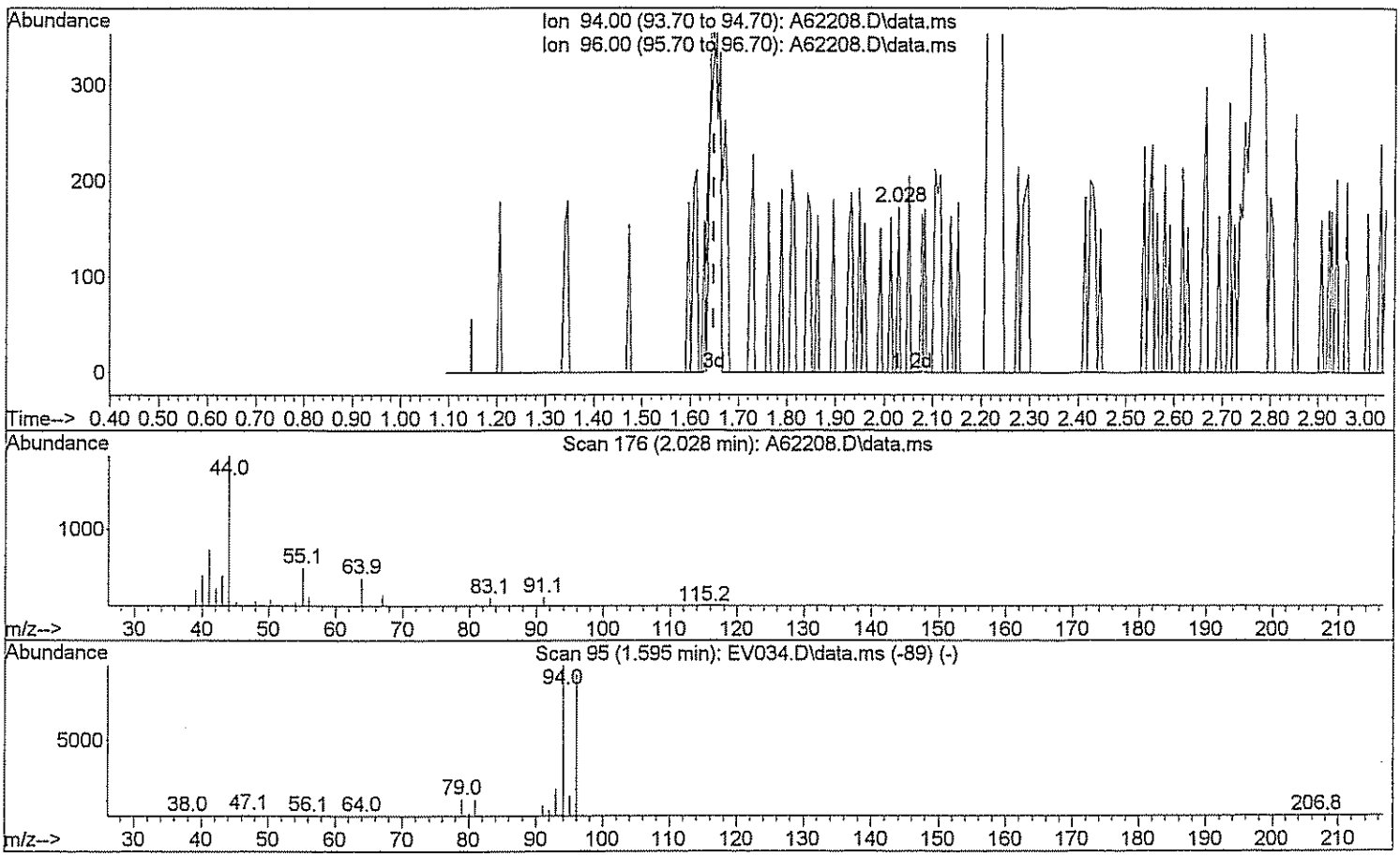
response 977

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	12.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(5) Bromomethane

2.028min (+0.380) 0.10 ug/L

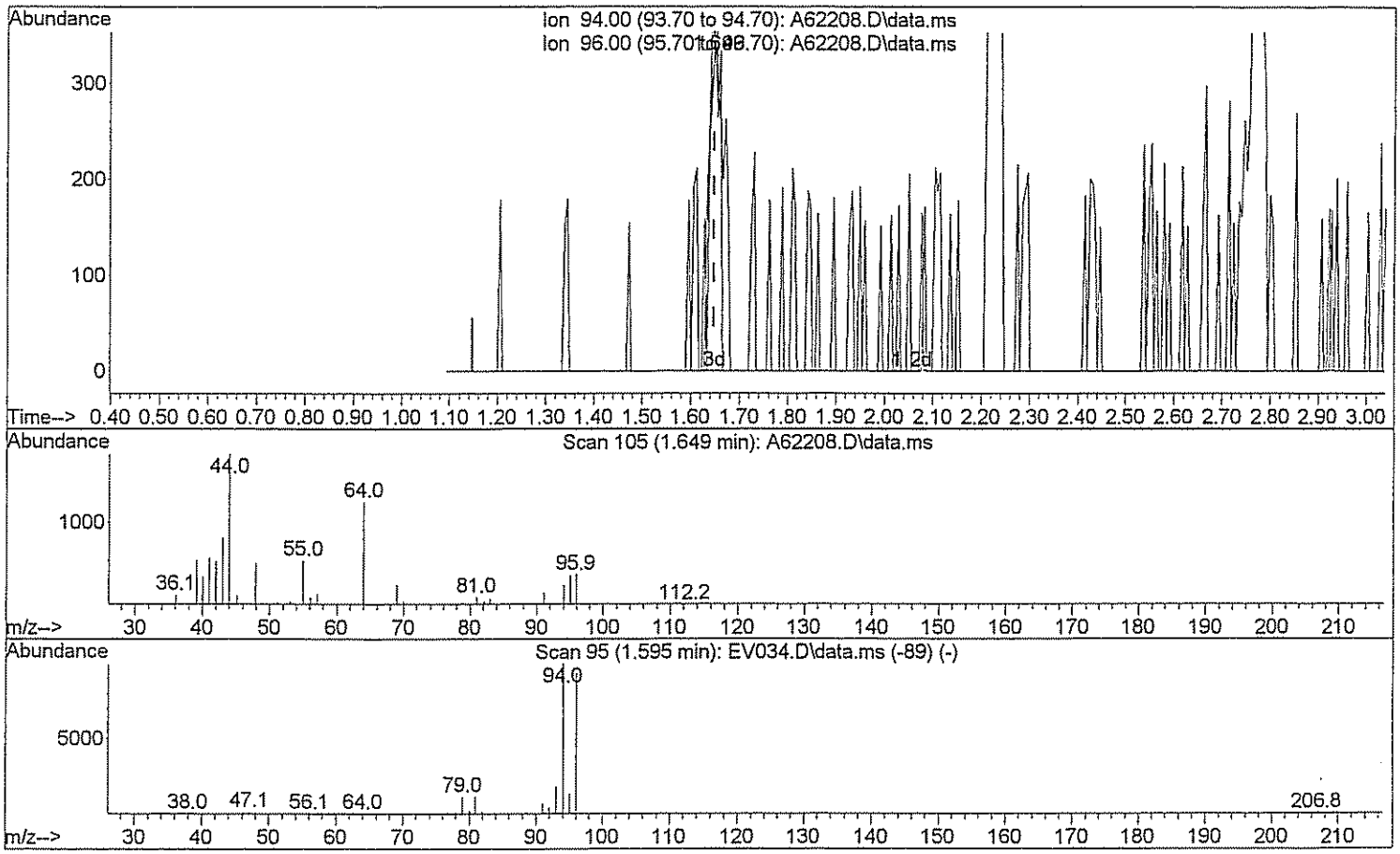
response 56

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	92.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(5) Bromomethane

1.649min (+0.000) 0.99 ug/L m

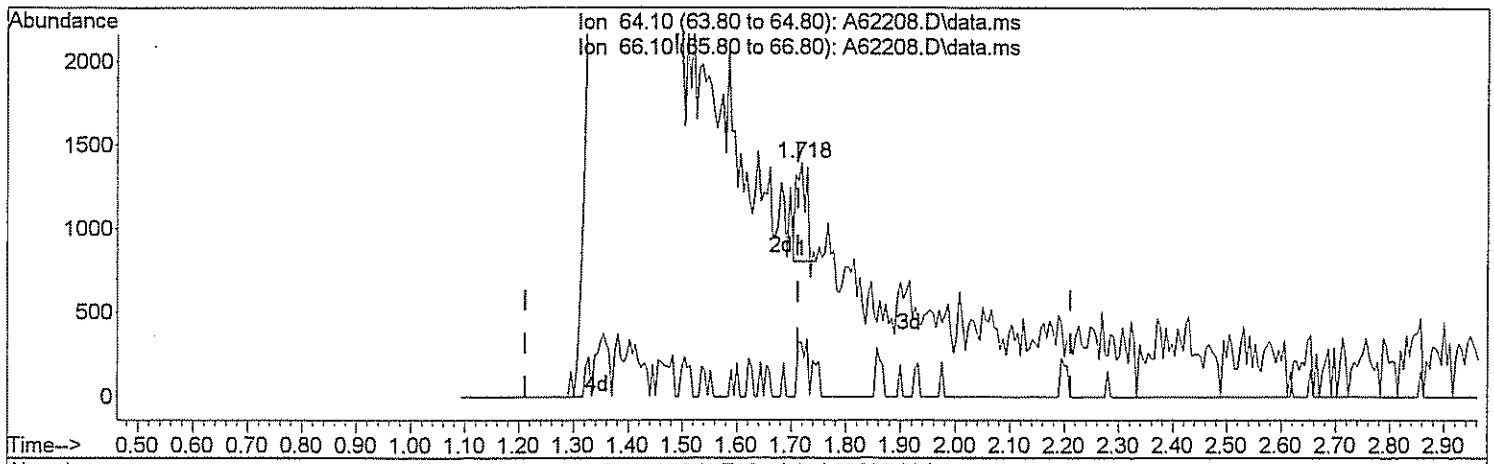
response 531

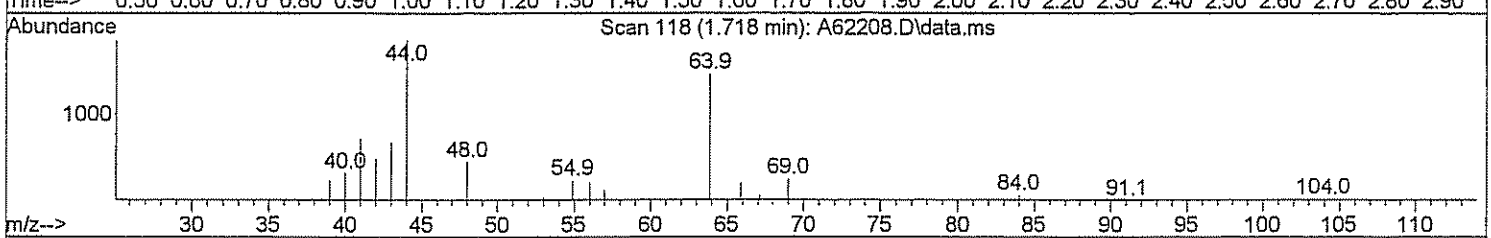
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	9.79#
0.00	0.00	0.00
0.00	0.00	0.00

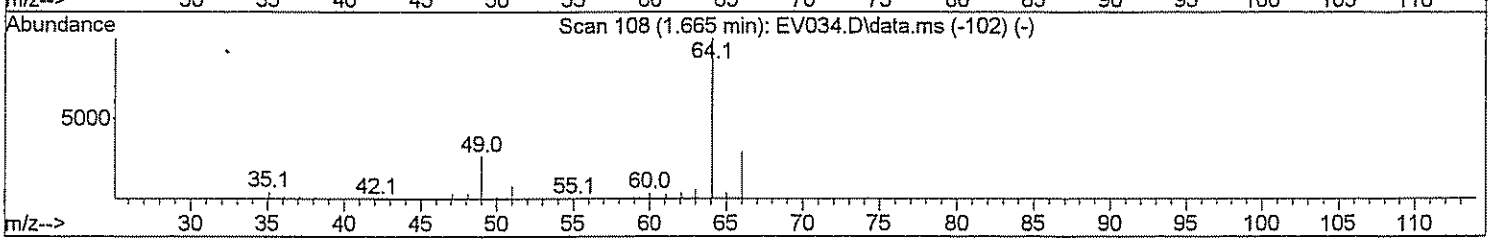
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration







TIC: A62208.D\data.ms

(6) Chloroethane

1.718min (+0.006) 0.75 ug/L

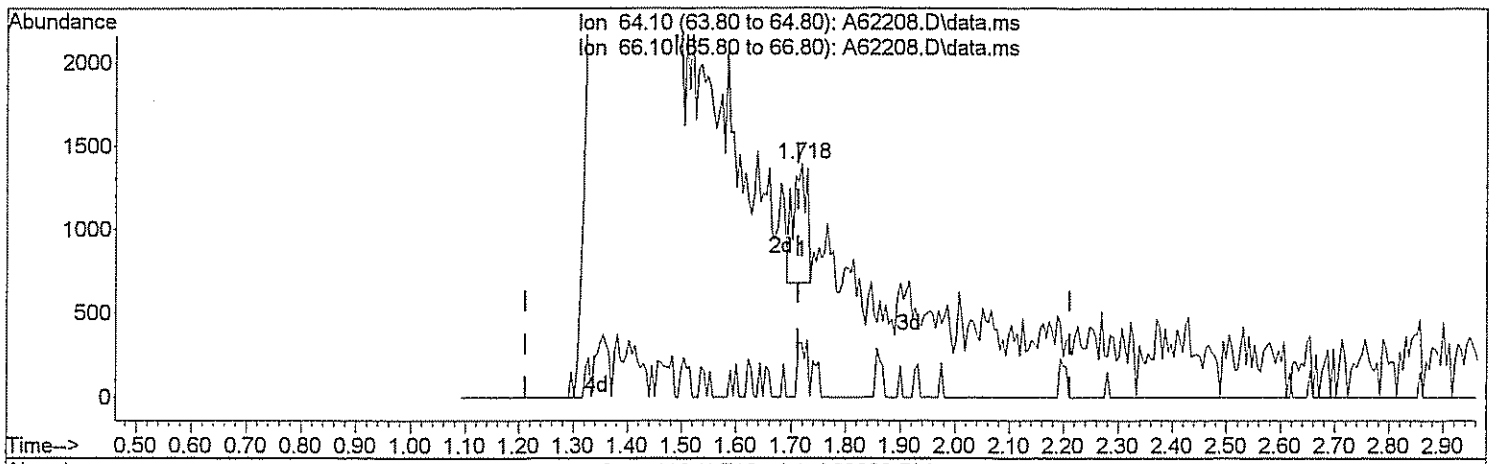
response 770

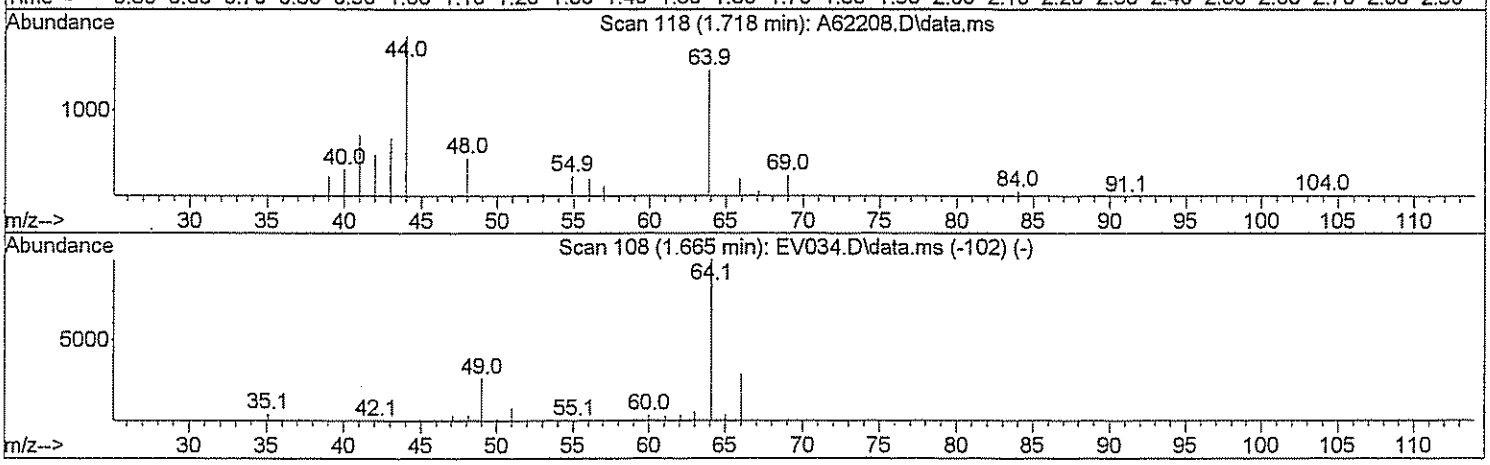
Ion	Exp%	Act%
64.10	100	100
66.10	29.60	50.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration





TIC: A62208.D\data.ms

(6) Chloroethane

1.718min (+0.006) 1.22 ug/L m JW 3/12/09

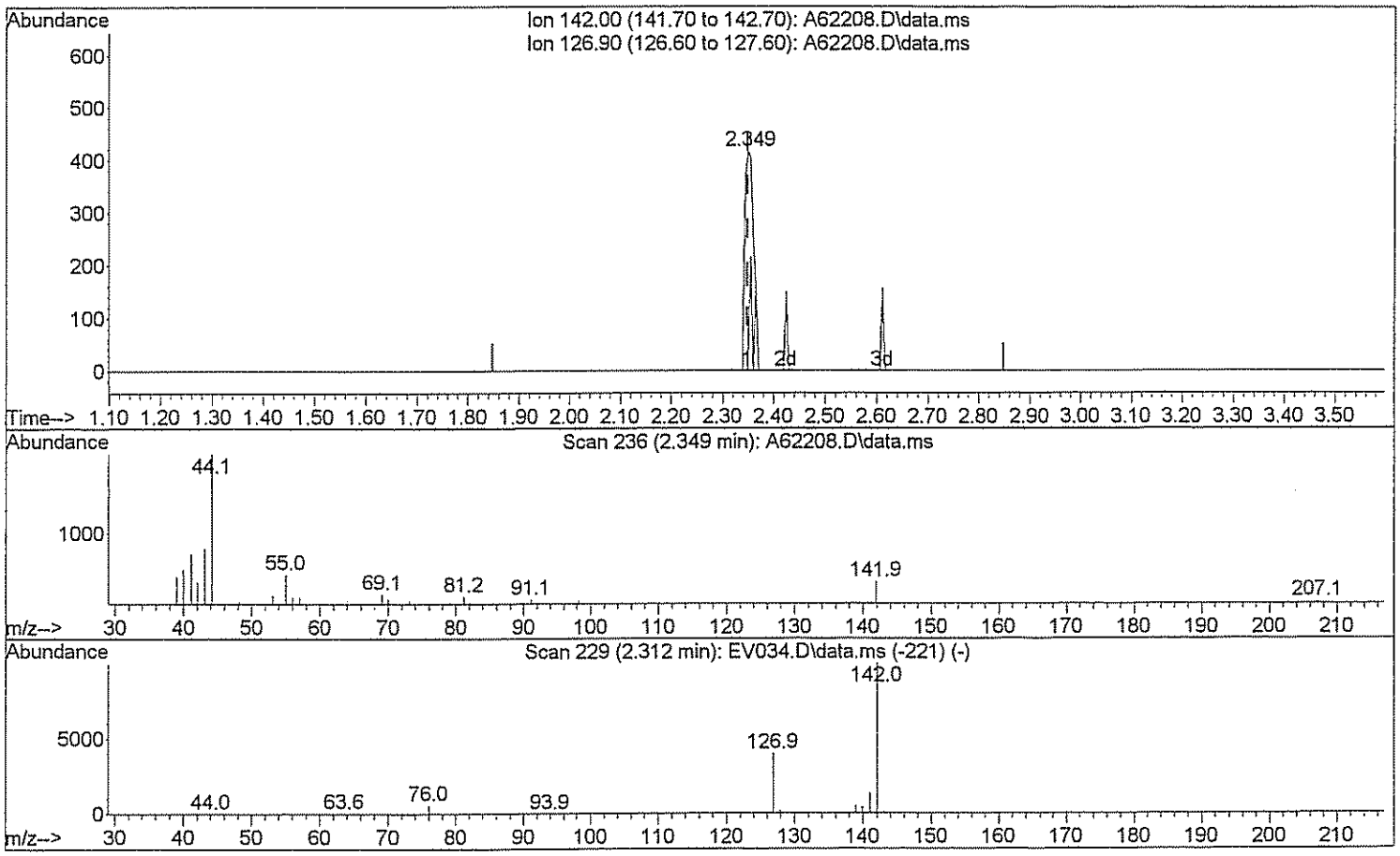
response 1257

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	30.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(13) Iodomethane

2.349min (+0.000) 0.37 ug/L

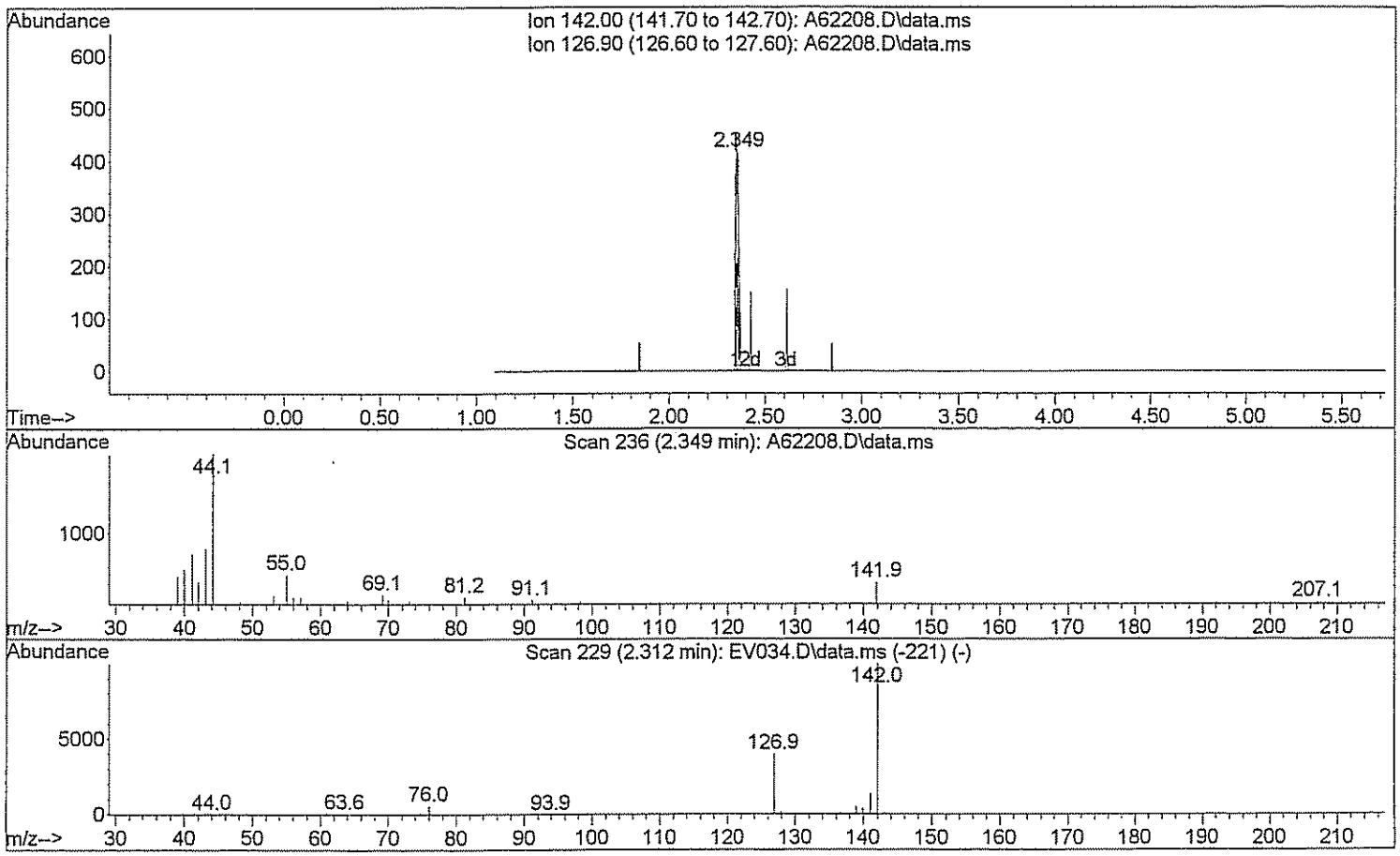
response 510

Ion	Exp%	Act%
142.00	100	100
126.90	40.70	23.73#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(13) Iodomethane

2.349min (+0.000) 0.45 ug/L m

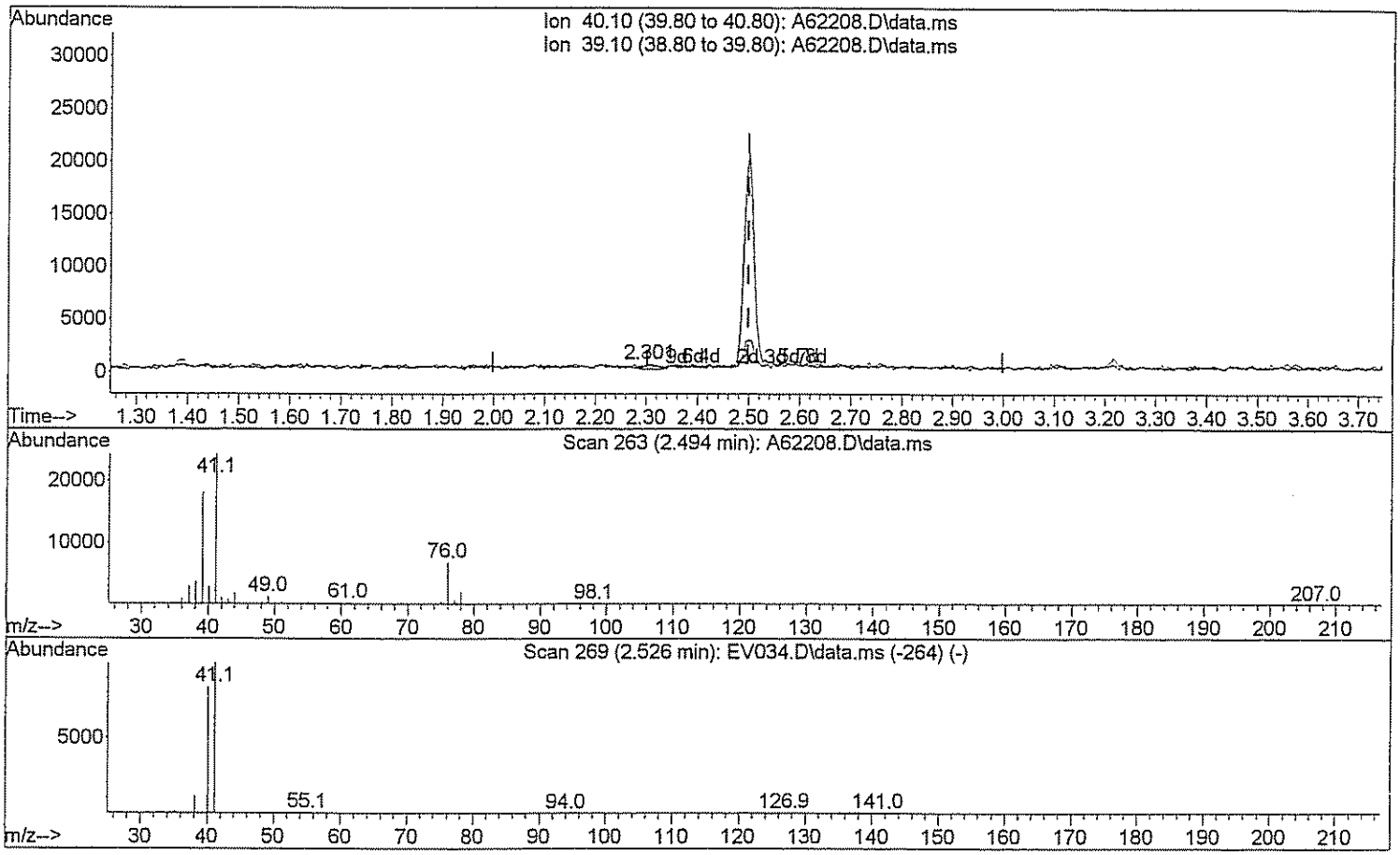
response 610

Ion	Exp%	Act%
142.00	100	100
126.90	40.70	19.84#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(14) Acetonitrile

2.301min (-0.198) 0.91 ug/L

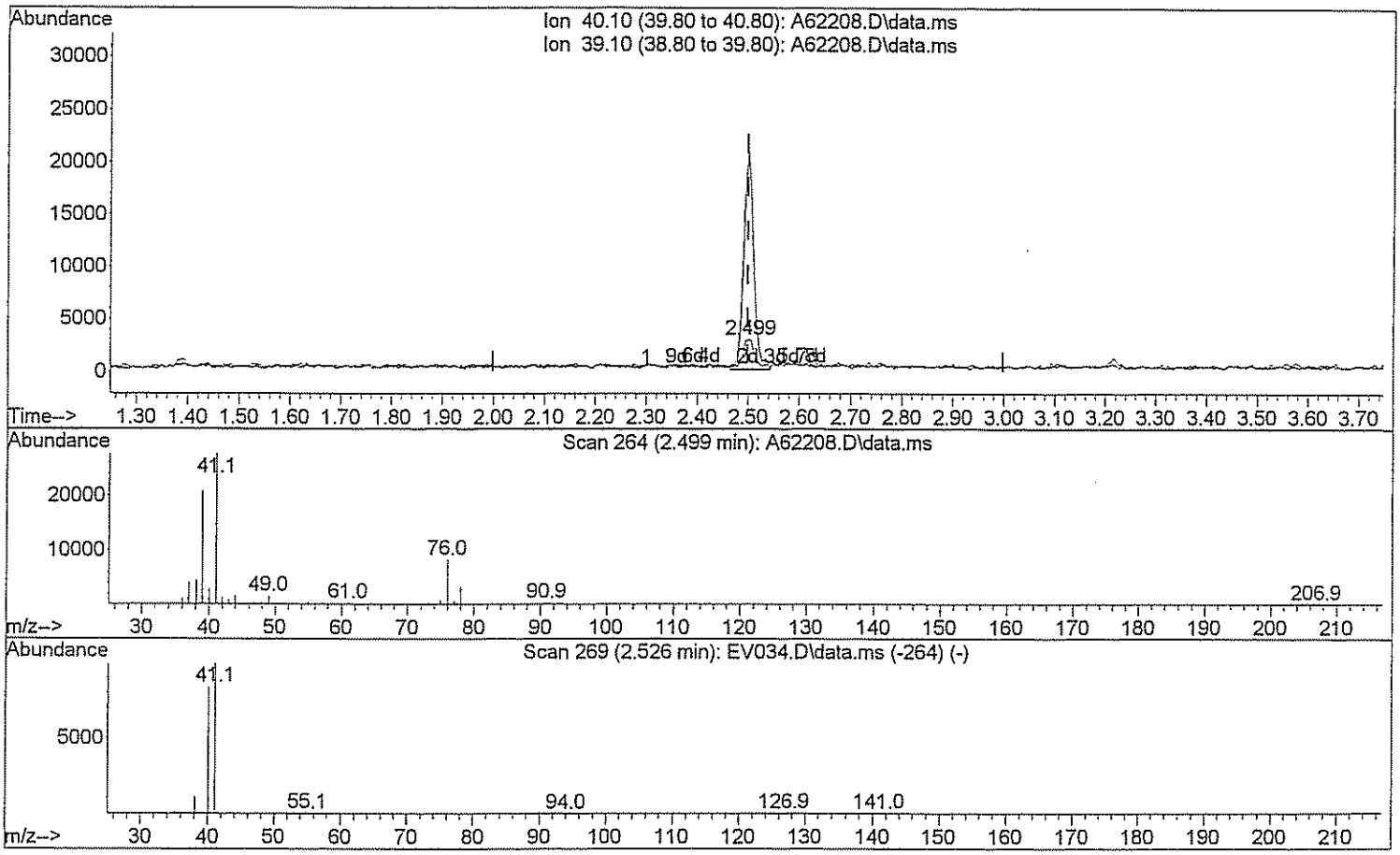
response 701

Ion	Exp%	Act%
40.10	100	100
39.10	111.20	132.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(14) Acetonitrile

2.499min (+0.000) 6.66 ug/L m 3/12/09

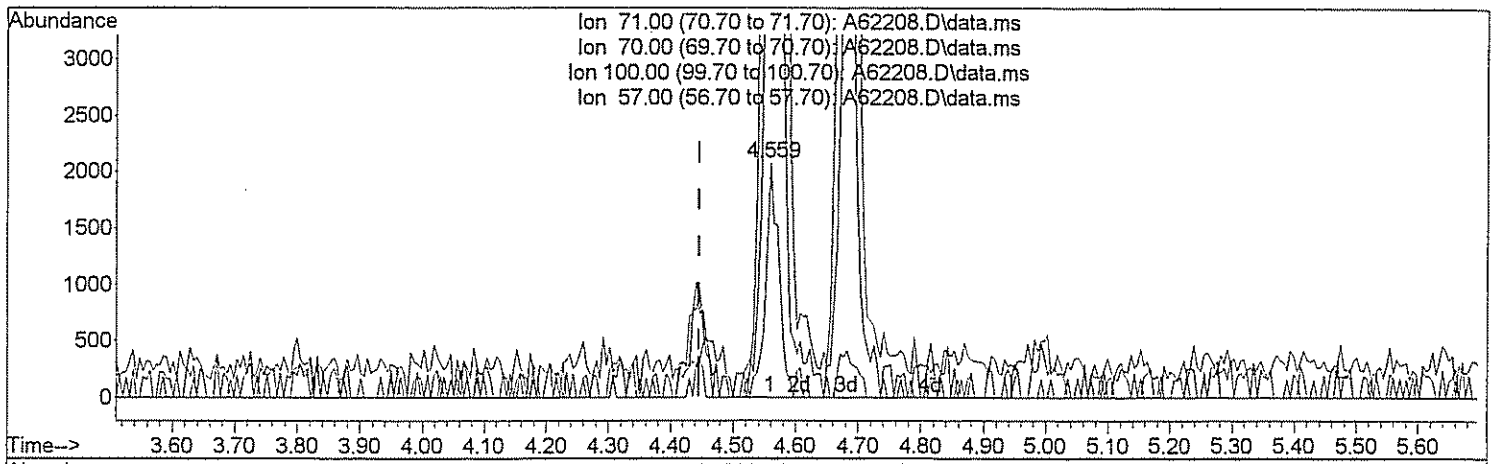
response 5117

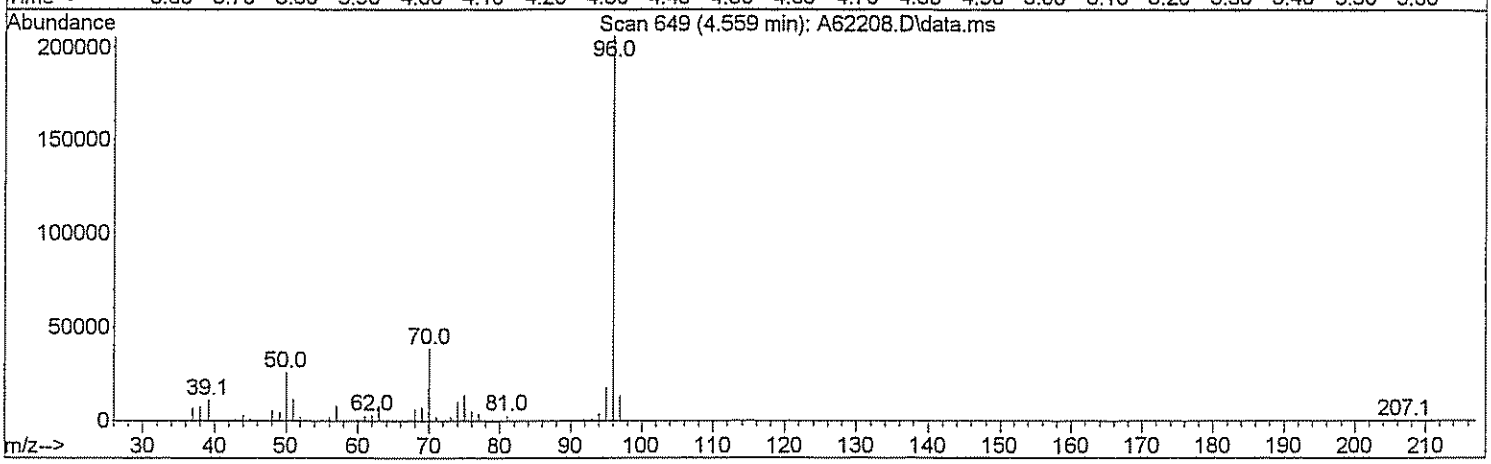
Ion	Exp%	Act%
40.10	100	100
39.10	111.20	18.17#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration





TIC: A62208.D\data.ms

(26) n-Heptane (T)

4.559min (+0.113) 2.59 ug/L

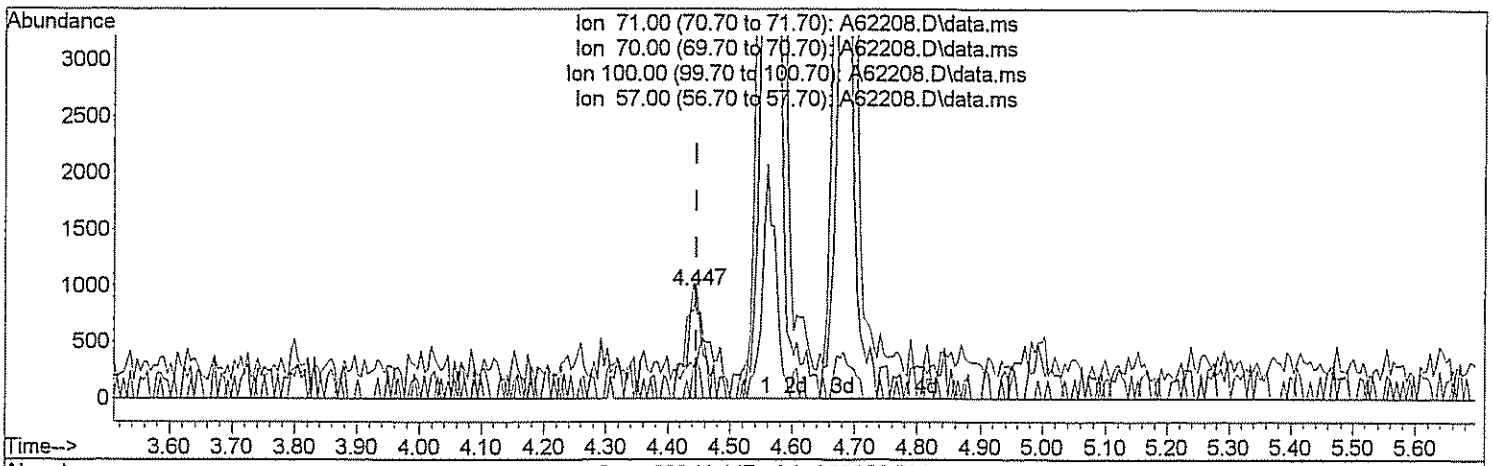
response 3161

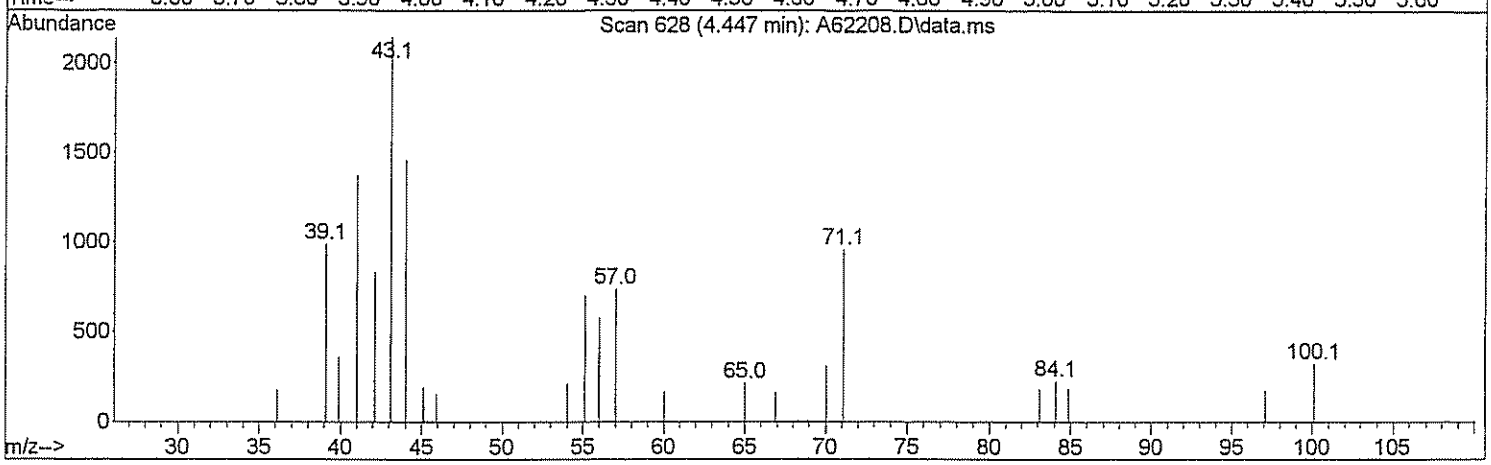
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2123.16#
100.00	60.00	0.00#
57.00	34.00	507.09#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration





TIC: A62208.D\data.ms

(26) n-Heptane (T)

4.447min (+0.000) 1.44 ug/L m

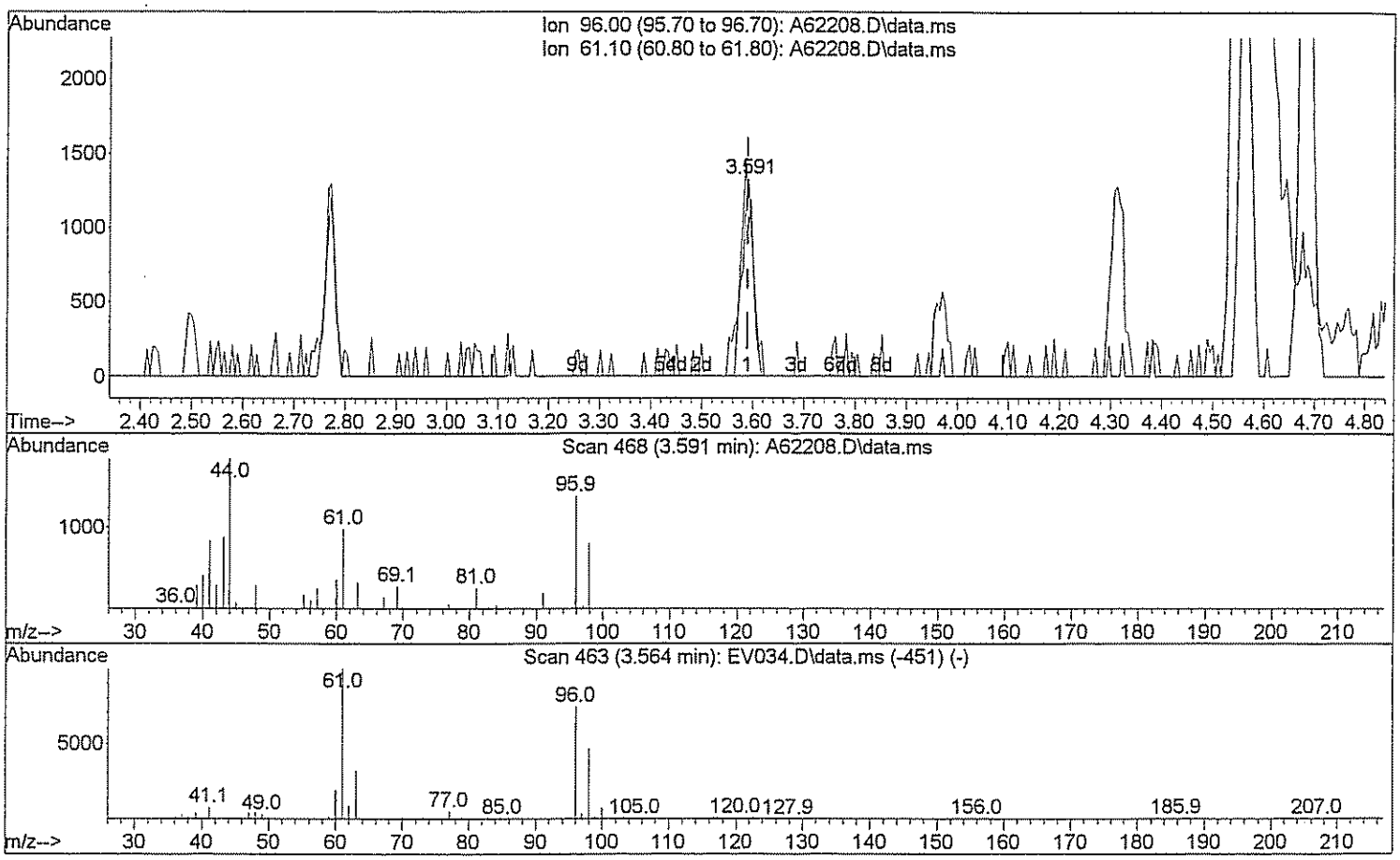
response 1757

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	3819.75#
100.00	60.00	0.00#
57.00	34.00	912.29#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (+0.000) 1.33 ug/L

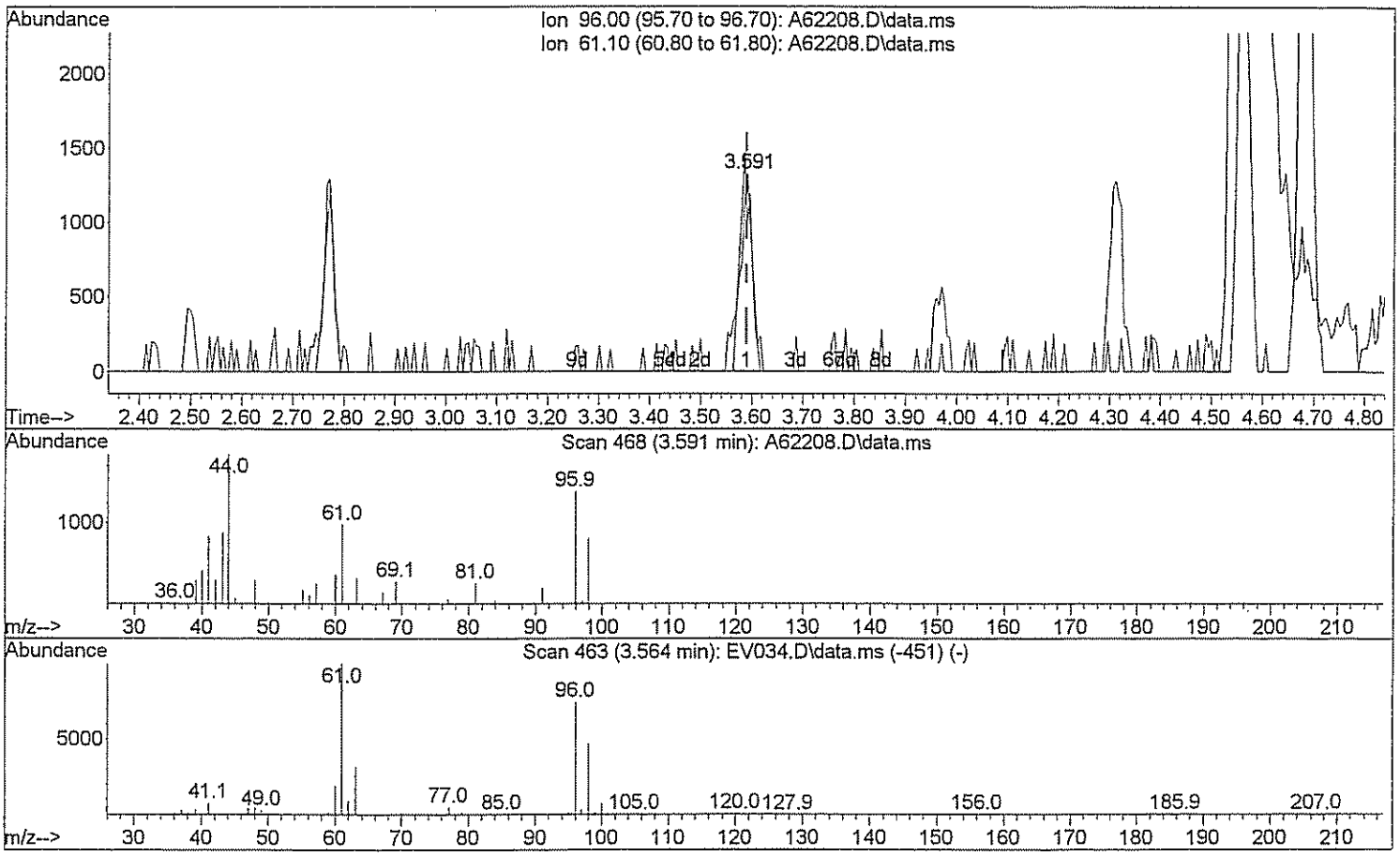
response 2179

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	114.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (+0.000) 3.64 ug/L m DM 3/12/09

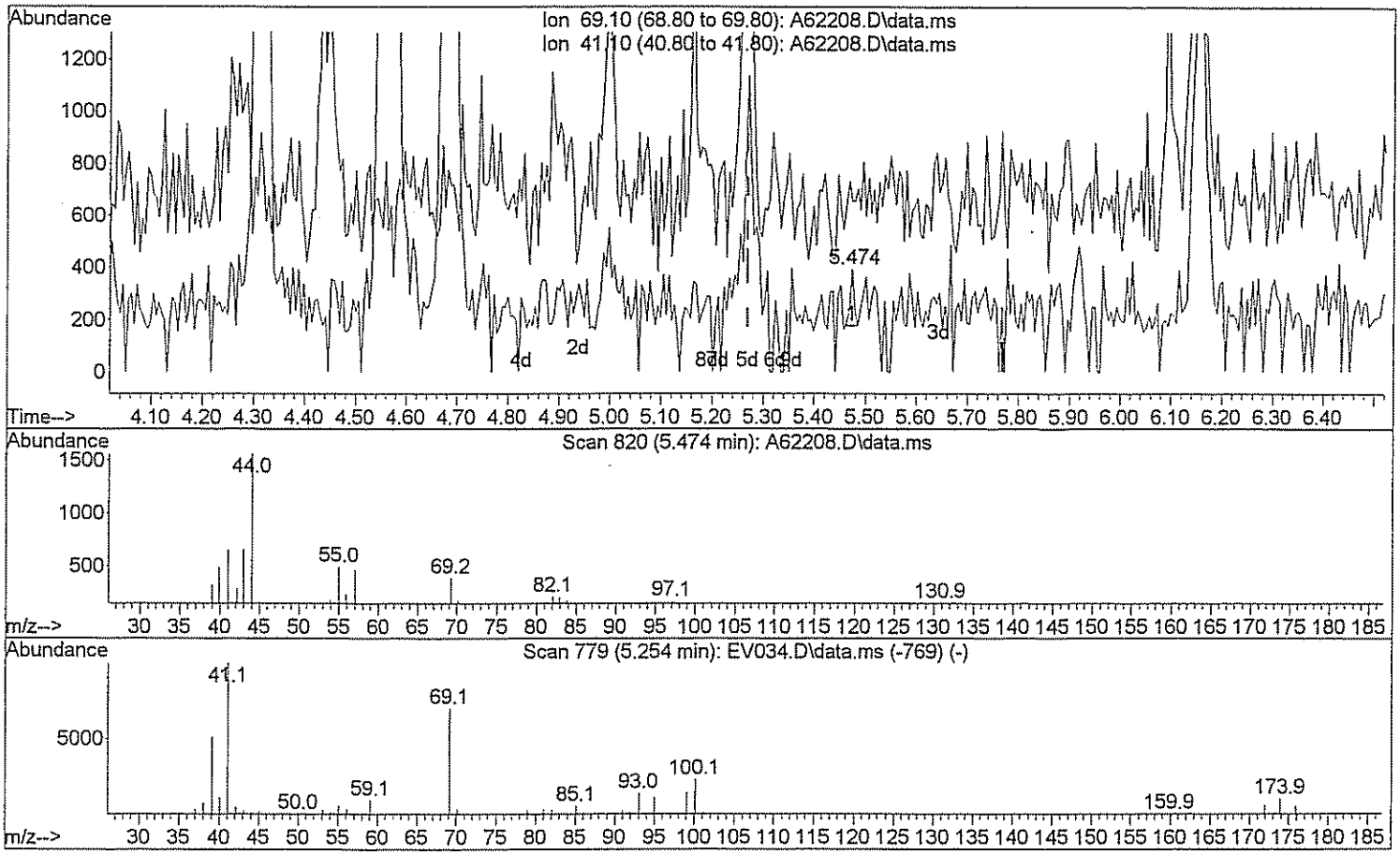
response 5955

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	41.96#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(48) Methyl methacrylate

5.474min (+0.203) 0.08 ug/L

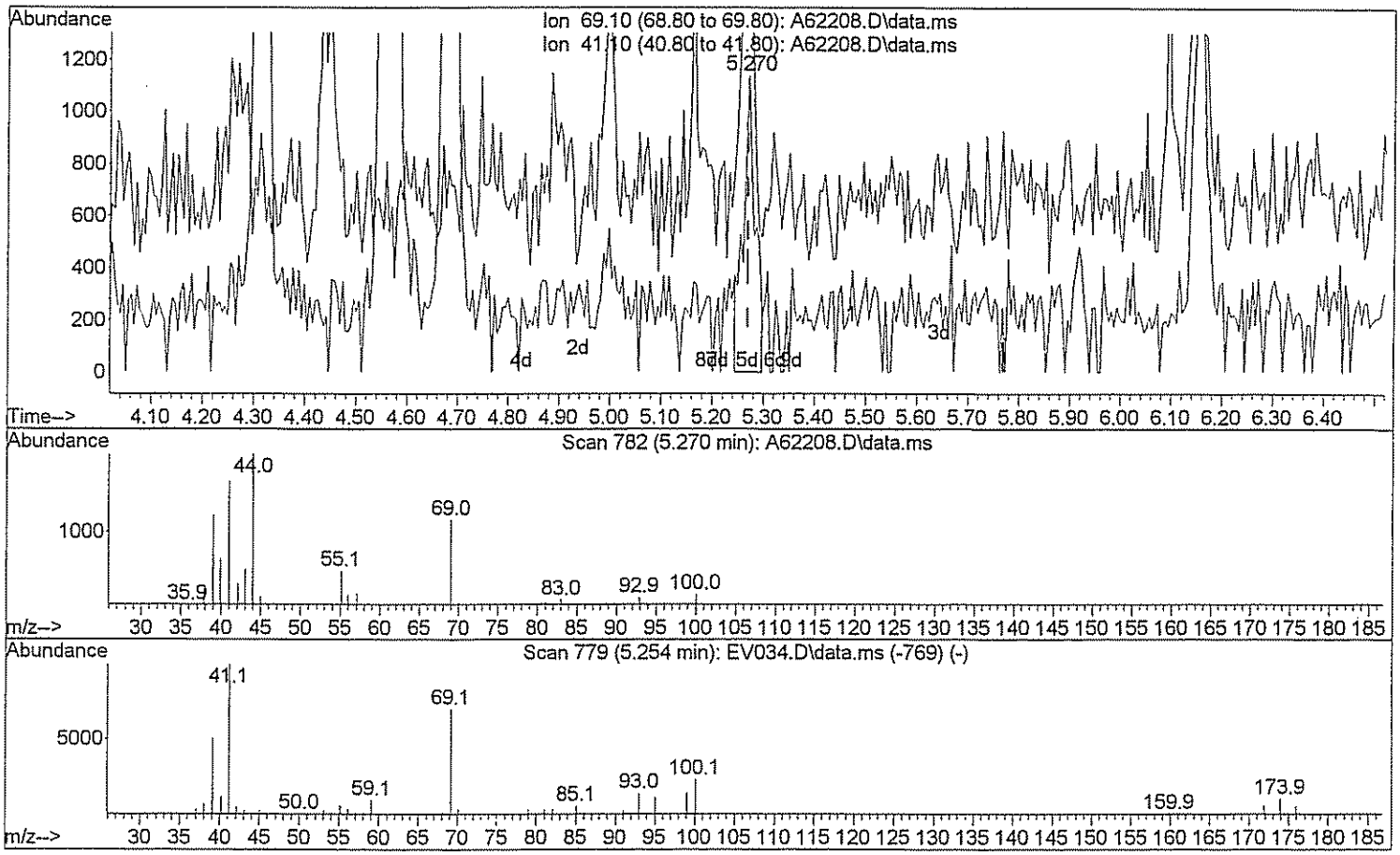
response 102

Ion	Exp%	Act%
69.10	100	100
41.10	141.20	156.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(48) Methyl methacrylate

5.270min (+0.000) 1.49 ug/L m 3/12/09

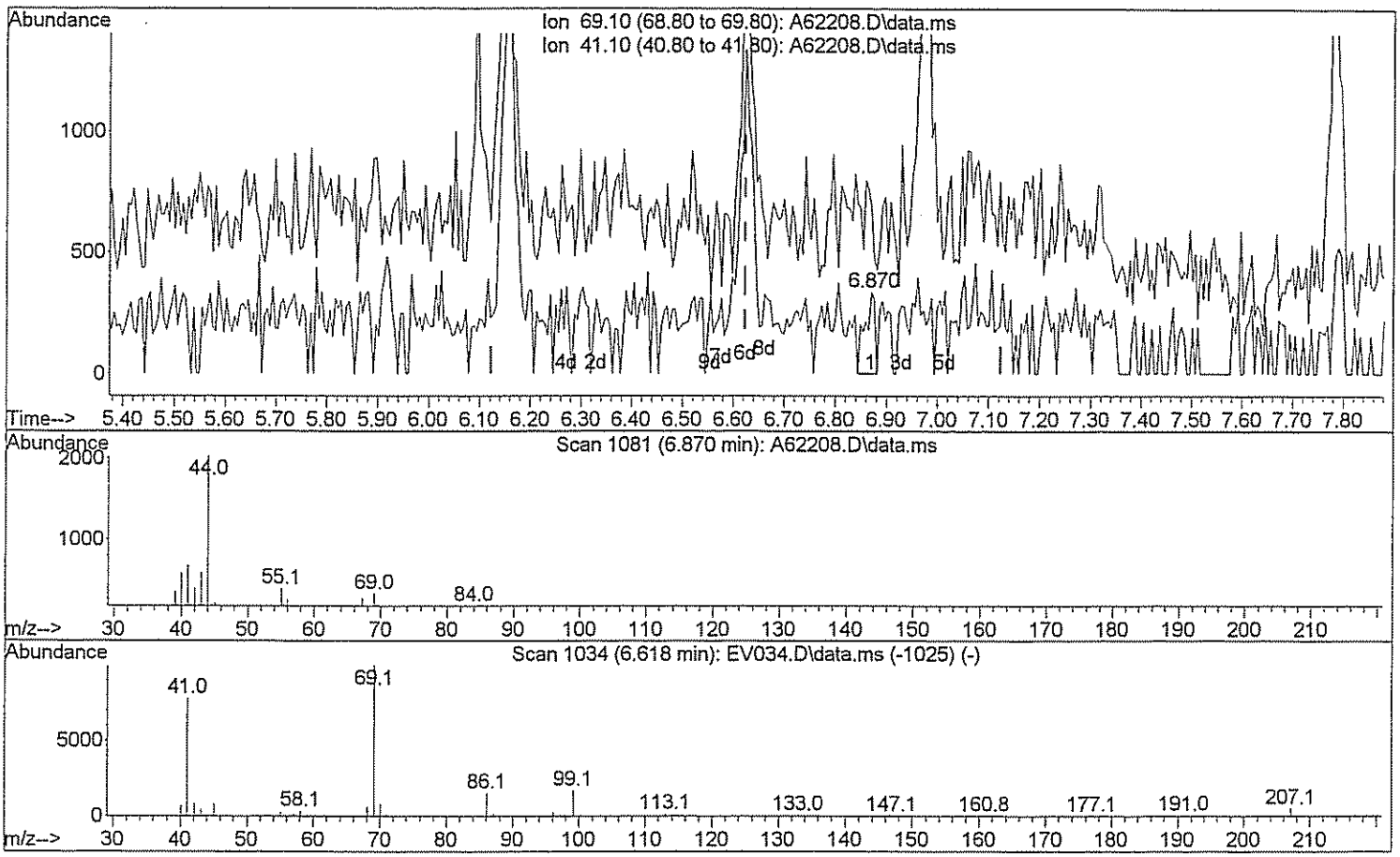
response 1862

Ion	Exp%	Act%
69.10	100	100
41.10	141.20	8.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(56) Ethyl methacrylate

6.870min (+0.246) 0.21 ug/L

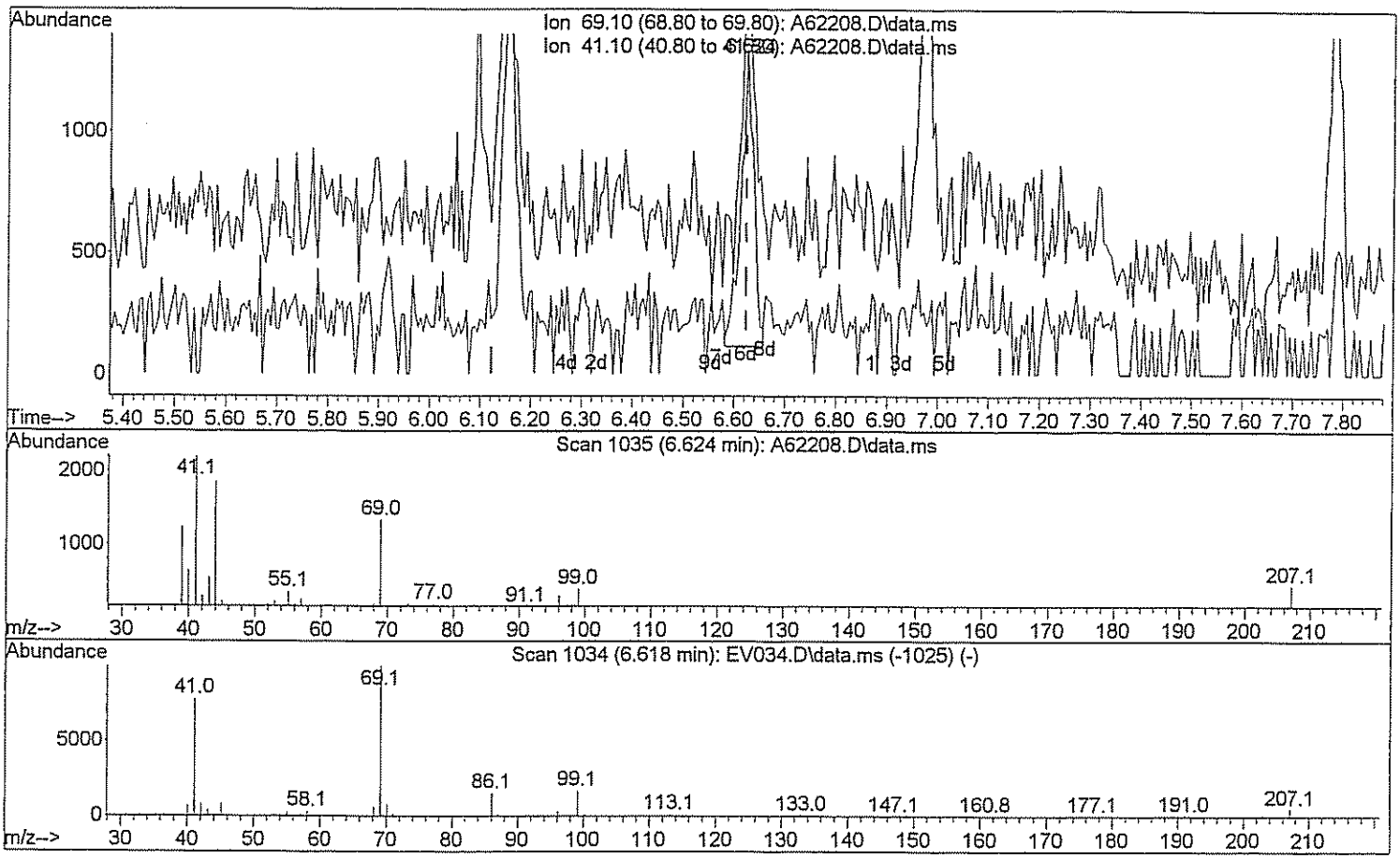
response 455

Ion	Exp%	Act%
69.10	100	100
41.10	77.10	70.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(56) Ethyl methacrylate

6.624min (+0.000) 1.00 ug/L m Jw 3/12/09

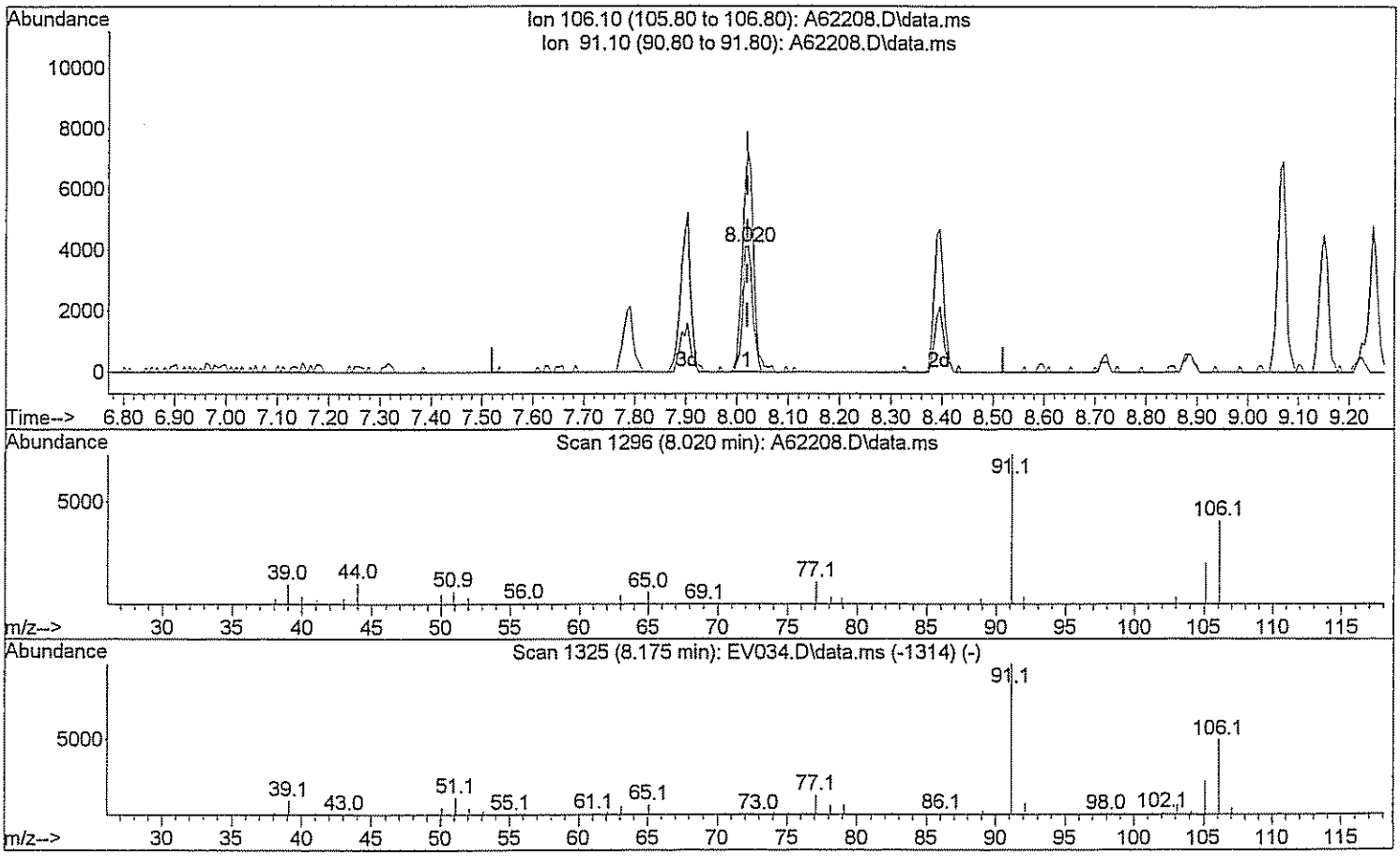
response 2131

Ion	Exp%	Act%
69.10	100	100
41.10	77.10	15.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(71) Xylene (Total)

8.020min (+0.000) 1.68 ug/L

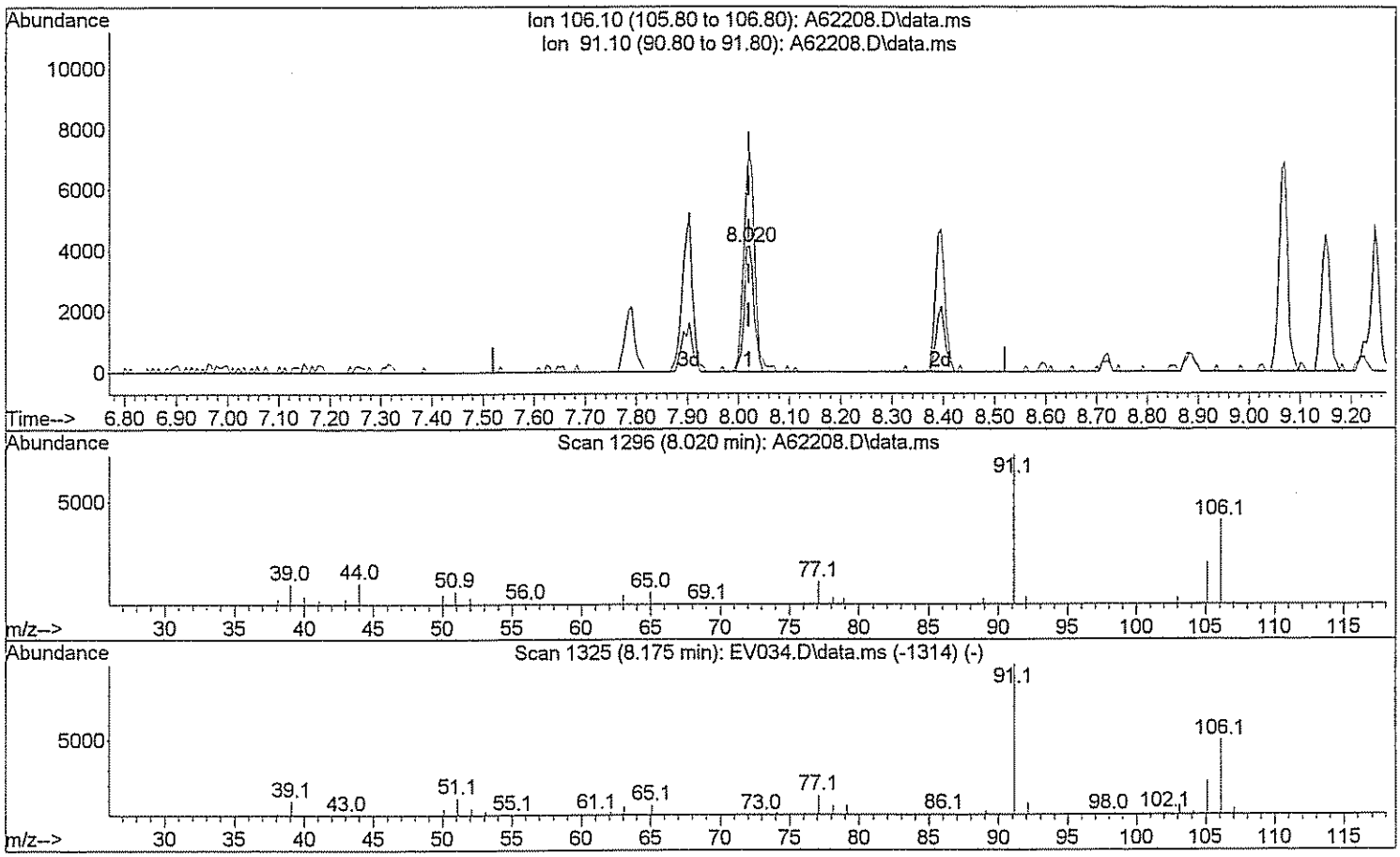
response 5561

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	196.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(71) Xylene (Total)

8.020min (+0.000) 2.47 ug/L m

Jon 3/12/09

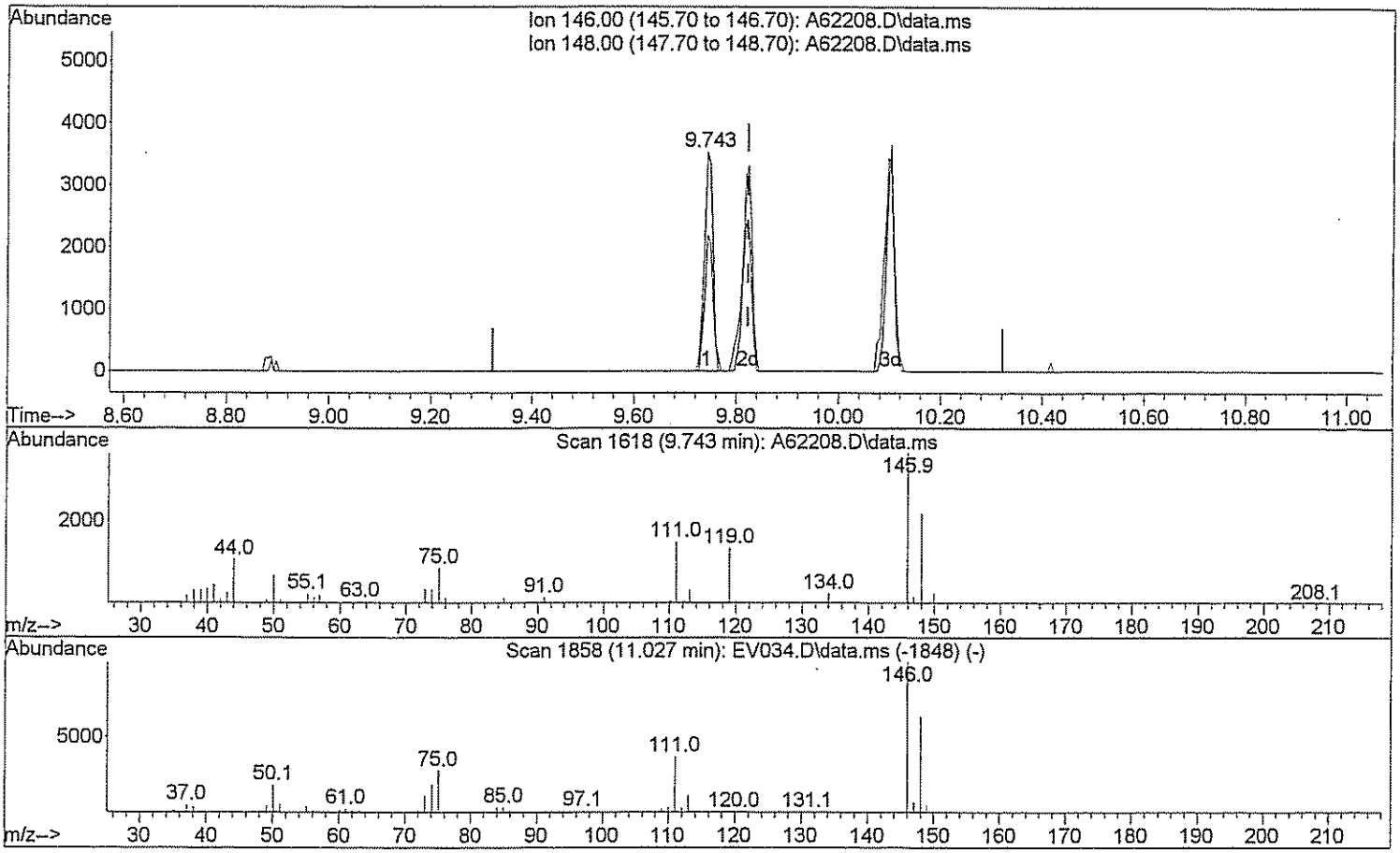
response 8155

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	133.78#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(90) 1,4-Dichlorobenzene

9.743min (-0.080) 0.87 ug/L

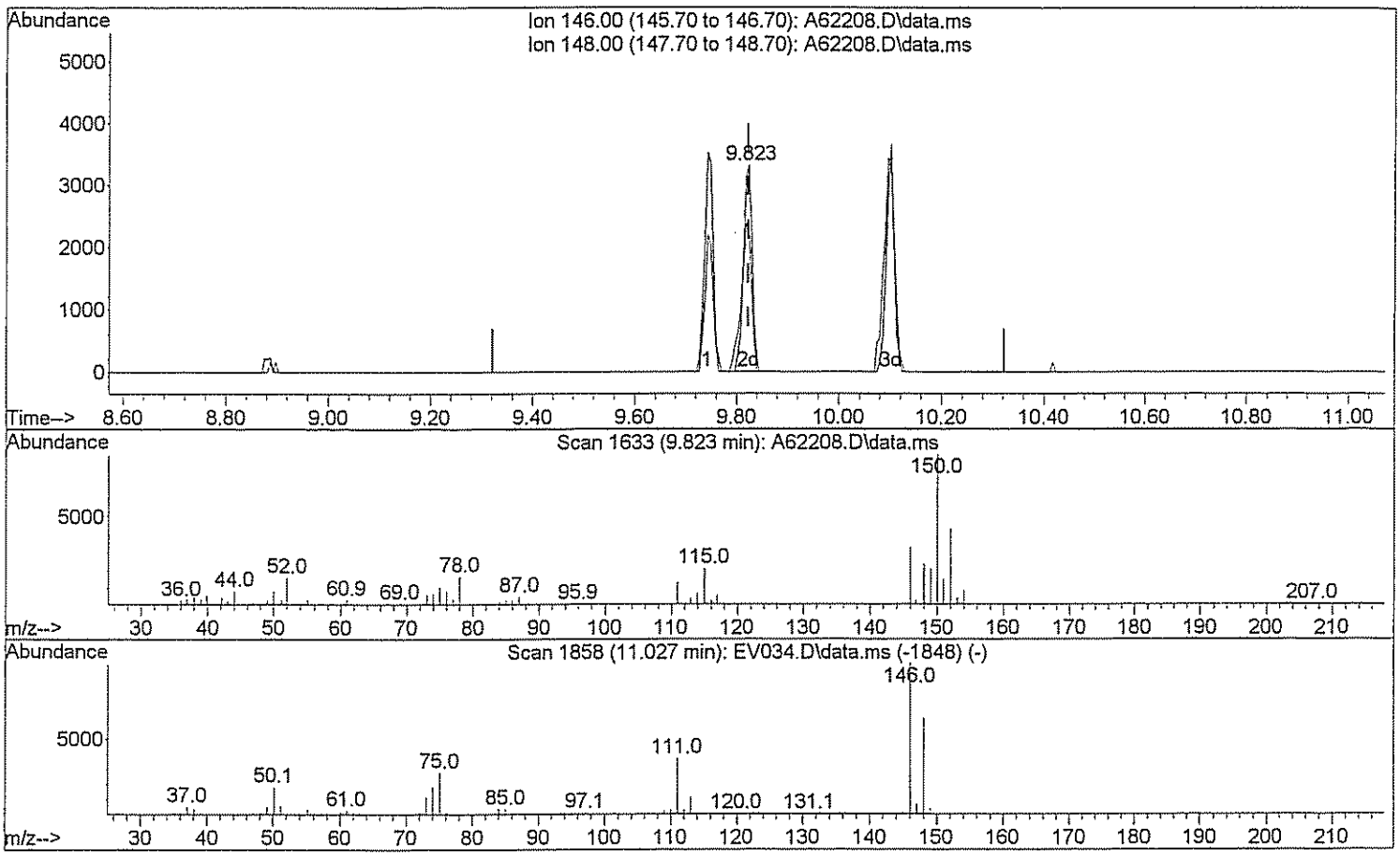
response 4018

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	61.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(90) 1,4-Dichlorobenzene

9.823min (+0.000) 0.87 ug/L m Sm 3/12/09

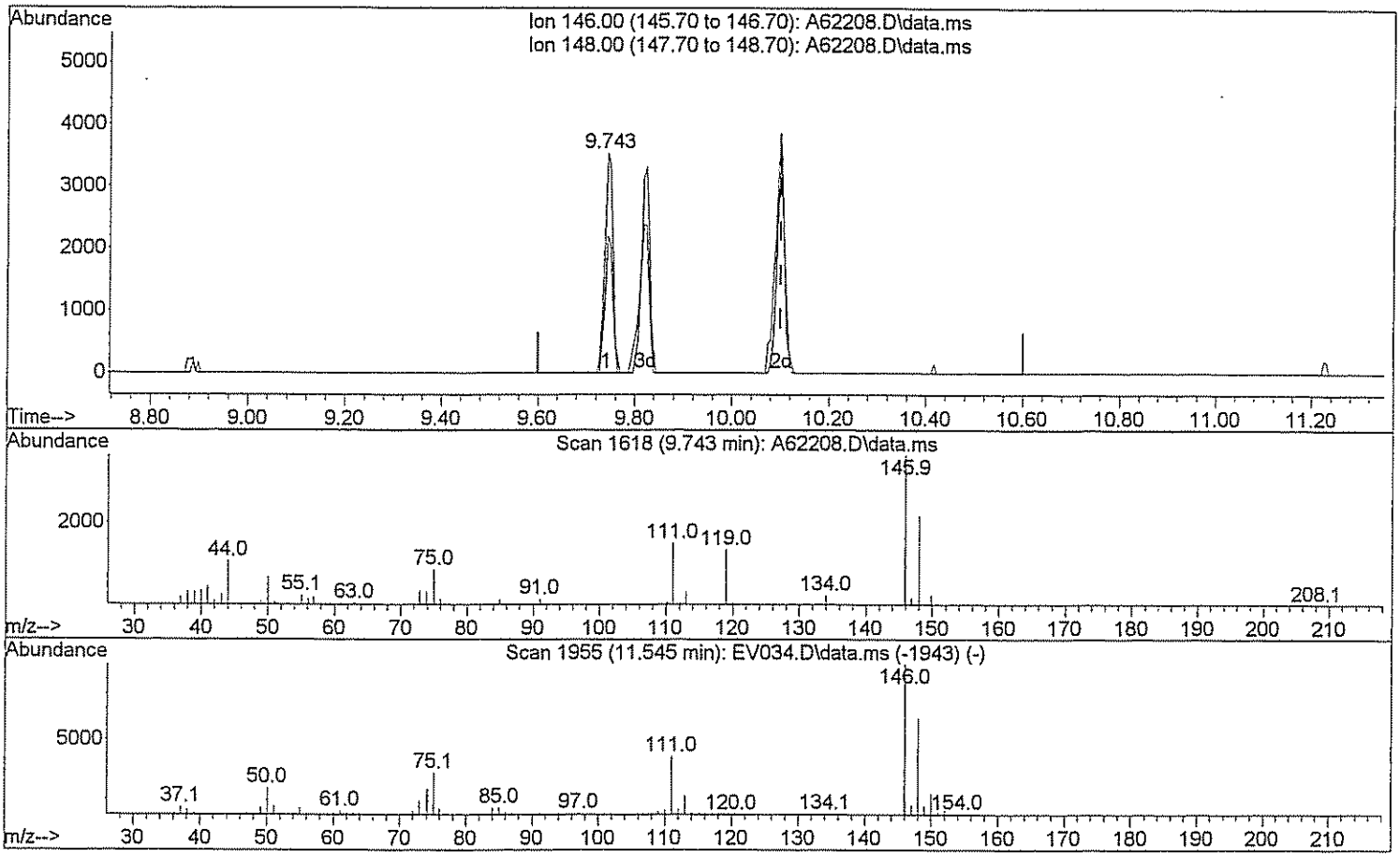
response 4003

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	61.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(92) 1,2-Dichlorobenzene

9.743min (-0.358) 0.91 ug/L

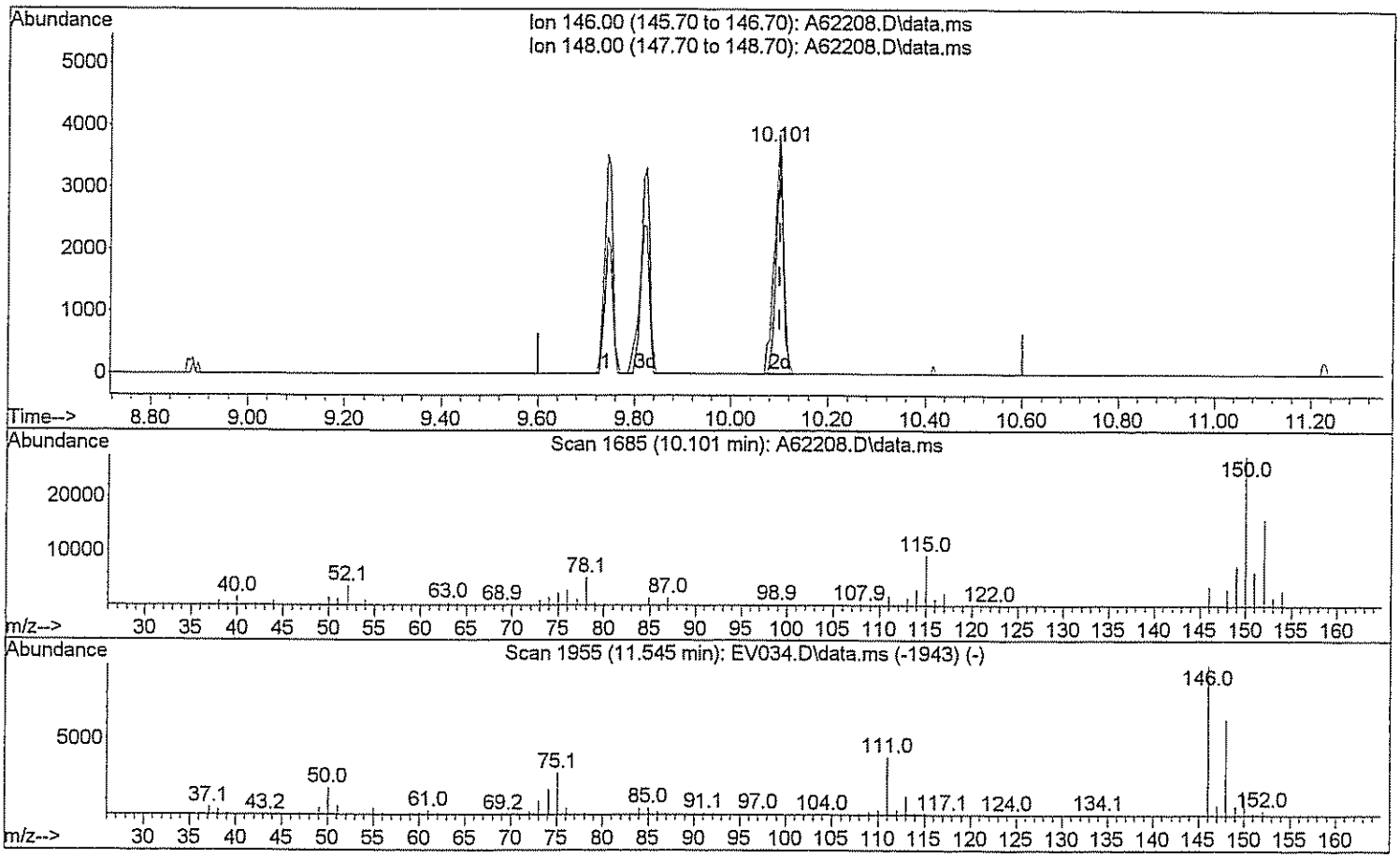
response 4018

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	61.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(92) 1,2-Dichlorobenzene

10.101min (+0.000) 0.92 ug/L m Sm 3/12/09

response 4028

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	61.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	343842	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.682	114	277412	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.779	117	261482	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	95705	50.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.74%			
53) Toluene-d8	6.148	98	315476	51.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.94%			
75) 4-Bromofluorobenzene	8.881	95	129887	49.99	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.98%			
91) 1,2-Dichlorobenzene-d4	10.085	152	141310	49.56	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 99.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.210	85	3830	4.98	ug/L #	64
3) Chloromethane	1.338	50	4413m	3.48	ug/L	
4) Vinyl chloride	1.418	62	4812	3.39	ug/L #	1
5) Bromomethane	1.648	94	1858m	3.59	ug/L	
6) Chloroethane	1.713	64	4204	4.35	ug/L	99
7) Trichlorofluoromethane	1.862	101	8446	3.83	ug/L	98
8) Ethyl Ether	2.060	59	6370	4.97	ug/L	93
9) Freon 113	2.199	101	5527	4.79	ug/L	82
10) Acrolein	2.210	56	9441	33.91	ug/L #	82
11) Tert-Butyl alcohol	2.681	59	10480	78.91	ug/L #	47
12) 1,1-Dichloroethene	2.226	96	6425	5.24	ug/L	83
13) Iodomethane	2.349	142	3751	2.74	ug/L	99
14) Acetonitrile	2.499	40	23368	30.78	ug/L #	1
15) Methylene chloride	2.606	84	9294	6.28	ug/L	91
16) Trans-1,2-dichloroethene	2.772	96	6225	4.60	ug/L	81
17) Isopropyl ether	3.104	45	26332	4.83	ug/L	94
18) 1,1-Dichloroethane	3.125	63	11511	4.59	ug/L	100
19) Acetone	2.312	43	5155	9.89	ug/L	95
20) Methyl Acetate	4.270	43	5433	3.83	ug/L #	100
21) MTBE	2.756	73	19815	4.97	ug/L	100
22) Carbon disulfide	2.376	76	26231	6.64	ug/L	100
24) Acrylonitrile	2.847	53	11962	24.97	ug/L	98
25) Chloroprene	3.157	53	11999	5.37	ug/L	93
26) n-Heptane	4.446	71	5639m	5.08	ug/L	
27) 2,2-Dichloropropane	3.558	77	8708	4.26	ug/L #	76
28) Cis-1,2-dichloroethene	3.590	96	7602	4.82	ug/L	100

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	14539m	9.67 ug/L		
30) Propionitrile	3.746	54	10988	47.71 ug/L		97
31) Bromochloromethane	3.788	128	3461	4.40 ug/L		97
32) Tetrahydrofuran	3.799	72	1843	4.48 ug/L	#	22
33) Chloroform	3.847	83	12242	4.52 ug/L		100
34) Cyclohexane	3.943	56	11816	4.85 ug/L	#	89
35) 1,1,1-Trichloroethane	3.970	97	9718	4.49 ug/L		99
36) Carbon tetrachloride	4.066	117	5862	3.18 ug/L		97
37) Methylcyclohexane	4.997	83	10799	4.61 ug/L		97
38) Isobutyl Alcohol	4.441	43	9783	94.55 ug/L		93
41) 2-Butanone	3.622	43	10170	10.64 ug/L		93
42) 1,1-Dichloropropene	4.109	75	8234	4.43 ug/L		100
43) Vinyl Acetate	3.146	43	8515	4.10 ug/L		99
44) Benzene	4.291	78	28172	4.74 ug/L		100
45) 1,2-Dichloroethane	4.382	62	8918	4.59 ug/L	#	84
46) Trichloroethene	4.890	95	8052	5.45 ug/L		99
47) 1,2-Dichloropropane	5.163	63	7176	4.49 ug/L		95
48) Methyl methacrylate	5.270	69	5527	4.84 ug/L		91
49) Dibromomethane	5.286	93	4213	4.23 ug/L		98
50) Bromodichloromethane	5.436	83	8163	3.96 ug/L		100
51) 2-Chloroethylvinyl ether	5.778	63	19642	18.04 ug/L		97
52) Cis-1,3-dichloropropene	5.918	75	9392	3.58 ug/L		98
54) Toluene	6.217	92	15979	4.77 ug/L		88
55) Trans-1,3-dichloropropene	6.570	75	9064	4.18 ug/L		95
56) Ethyl methacrylate	6.624	69	9749	5.06 ug/L		91
57) 1,1,2-Trichloroethane	6.773	83	5523	5.20 ug/L		98
59) 4-Methyl-2-pentanone	6.099	43	15998	9.10 ug/L	#	89
60) 2-Hexanone	7.068	43	11298	9.48 ug/L		95
61) Tetrachloroethene	6.800	166	6581	4.49 ug/L		97
62) 1,3-Dichloropropane	6.977	76	9963	4.56 ug/L		98
63) Dibromochloromethane	7.185	129	6365	4.04 ug/L		98
64) 1,2-Dibromoethane	7.314	107	5992	4.30 ug/L		97
65) 1-Chlorohexane	7.790	91	10540	5.17 ug/L		91
66) Chlorobenzene	7.811	112	19254	4.25 ug/L		90
67) 1,1,1,2-Tetrachloroethane	7.908	131	5918	3.43 ug/L	#	18
68) Ethylbenzene	7.897	91	33493	4.45 ug/L		97
69) m,p-Xylene	8.020	106	27480	8.76 ug/L		88
70) o-Xylene	8.394	106	13980	4.41 ug/L		92
71) Xylene (Total)	8.020	106	41457m	13.09 ug/L		
72) Styrene	8.421	104	22867	4.33 ug/L		94
73) Bromoform	8.598	173	3822	3.41 ug/L		90
74) Isopropylbenzene	8.715	105	29480	4.20 ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration

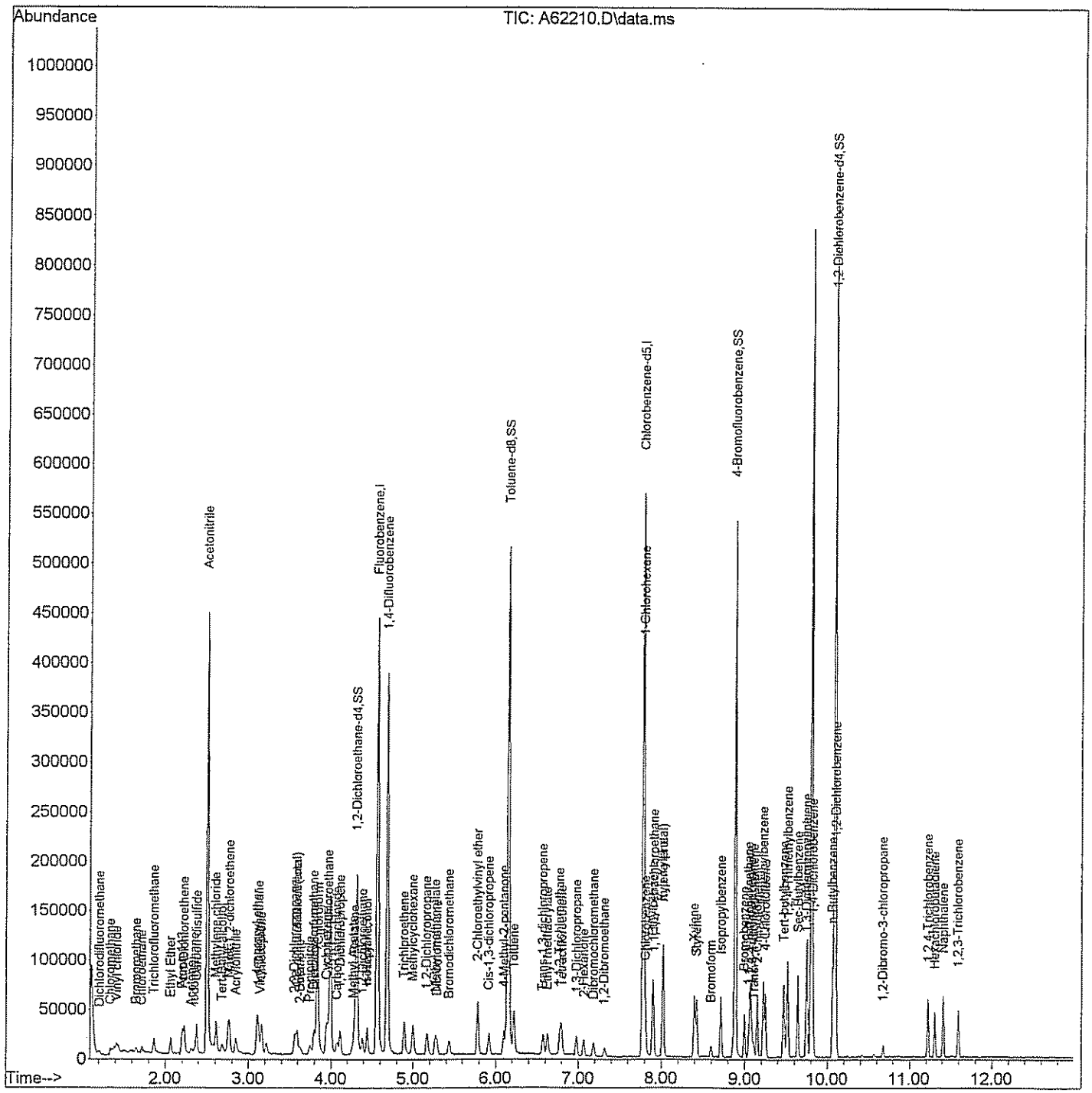
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	8840	4.56 ug/L	97
77) 1,1,2,2-Tetrachloroethane	9.047	83	9148	4.47 ug/L	91
78) 1,2,3-Trichloropropane	9.085	110	3089	5.08 ug/L	89
79) n-Propylbenzene	9.068	91	41149	4.35 ug/L	98
80) Trans-1,4-dichloro-2-b...	9.111	53	2390	3.81 ug/L #	23
81) 2-Chlorotoluene	9.154	126	8985	4.44 ug/L	86
82) 4-Chlorotoluene	9.245	126	9326	4.40 ug/L	98
83) 1,3,5-Trimethylbenzene	9.224	105	29829	4.07 ug/L	93
84) Tert-butylbenzene	9.470	119	26494	4.06 ug/L	93
86) 1,2,4-Trimethylbenzene	9.518	105	31761	4.18 ug/L	96
87) Sec-Butylbenzene	9.641	105	42313	4.23 ug/L	99
88) 1,3-Dichlorobenzene	9.743	146	18398	4.26 ug/L	100
89) 4-Isopropyltoluene	9.753	119	34679	3.90 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	18842	4.36 ug/L	97
92) 1,2-Dichlorobenzene	10.101	146	17699m	4.30 ug/L	
93) n-Butylbenzene	10.058	91	34955	4.33 ug/L	96
94) 1,2-Dibromo-3-chloropr...	10.679	75	1881	4.46 ug/L	85
95) 1,2,4-Trichlorobenzene	11.224	180	12168	4.43 ug/L	99
96) Hexachlorobutadiene	11.305	225	5120	4.38 ug/L	95
97) Naphthalene	11.412	128	35867	4.70 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	10919	4.46 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

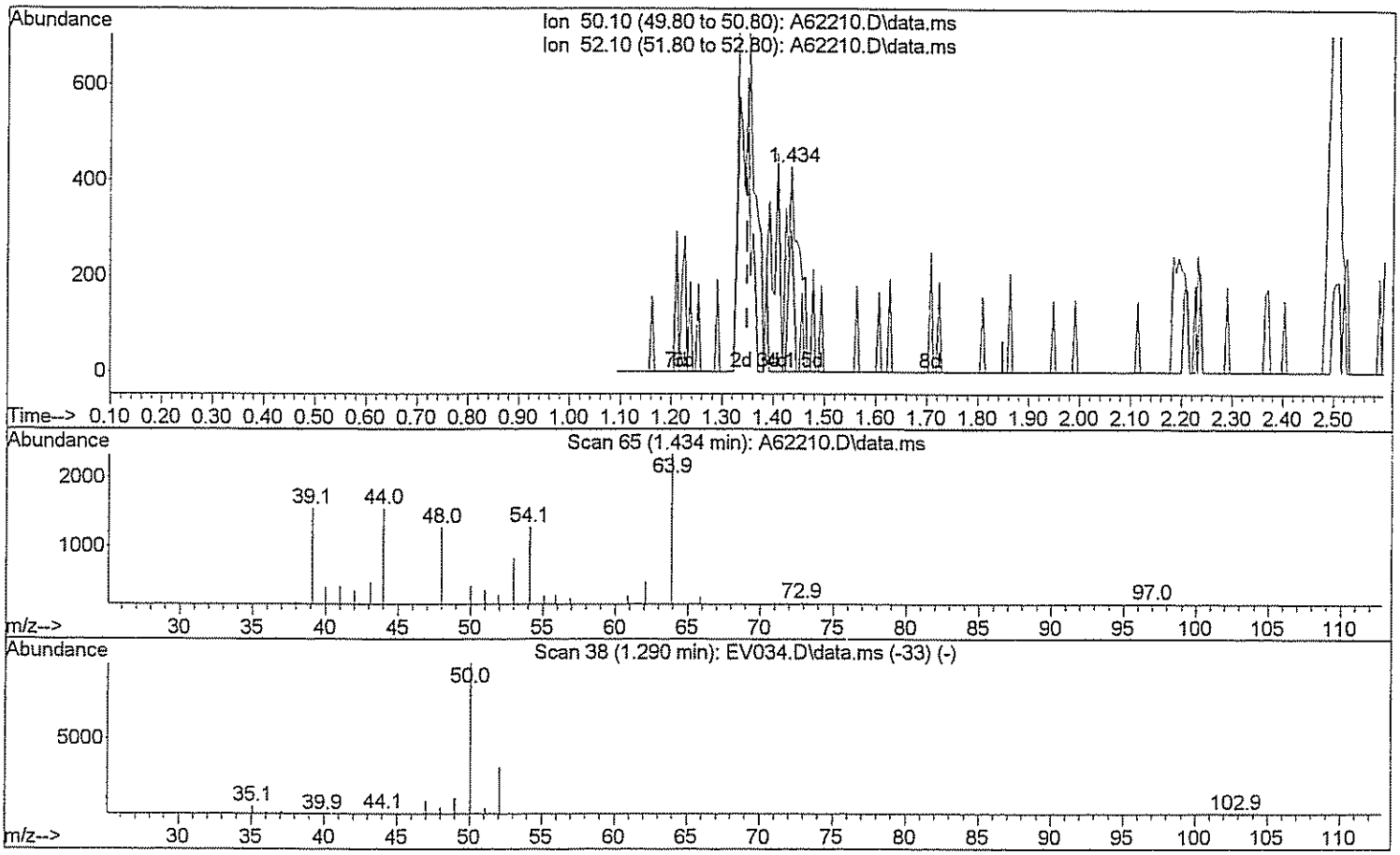
Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(3) Chloromethane

1.434min (+0.085) 0.56 ug/L

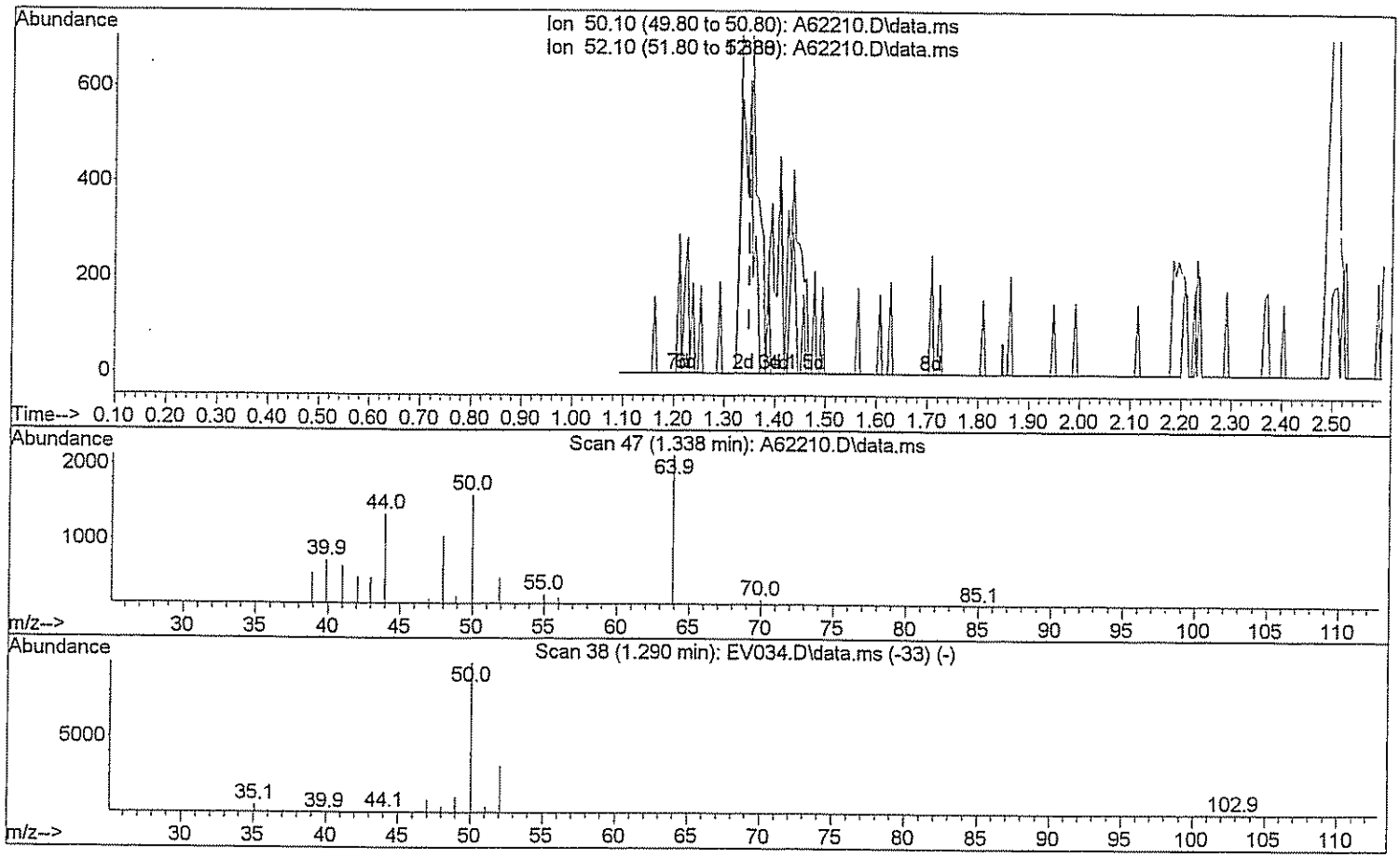
response 707

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	29.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(3) Chloromethane

1.338min (-0.011) 3.48 ug/L m LMW 3/12/09

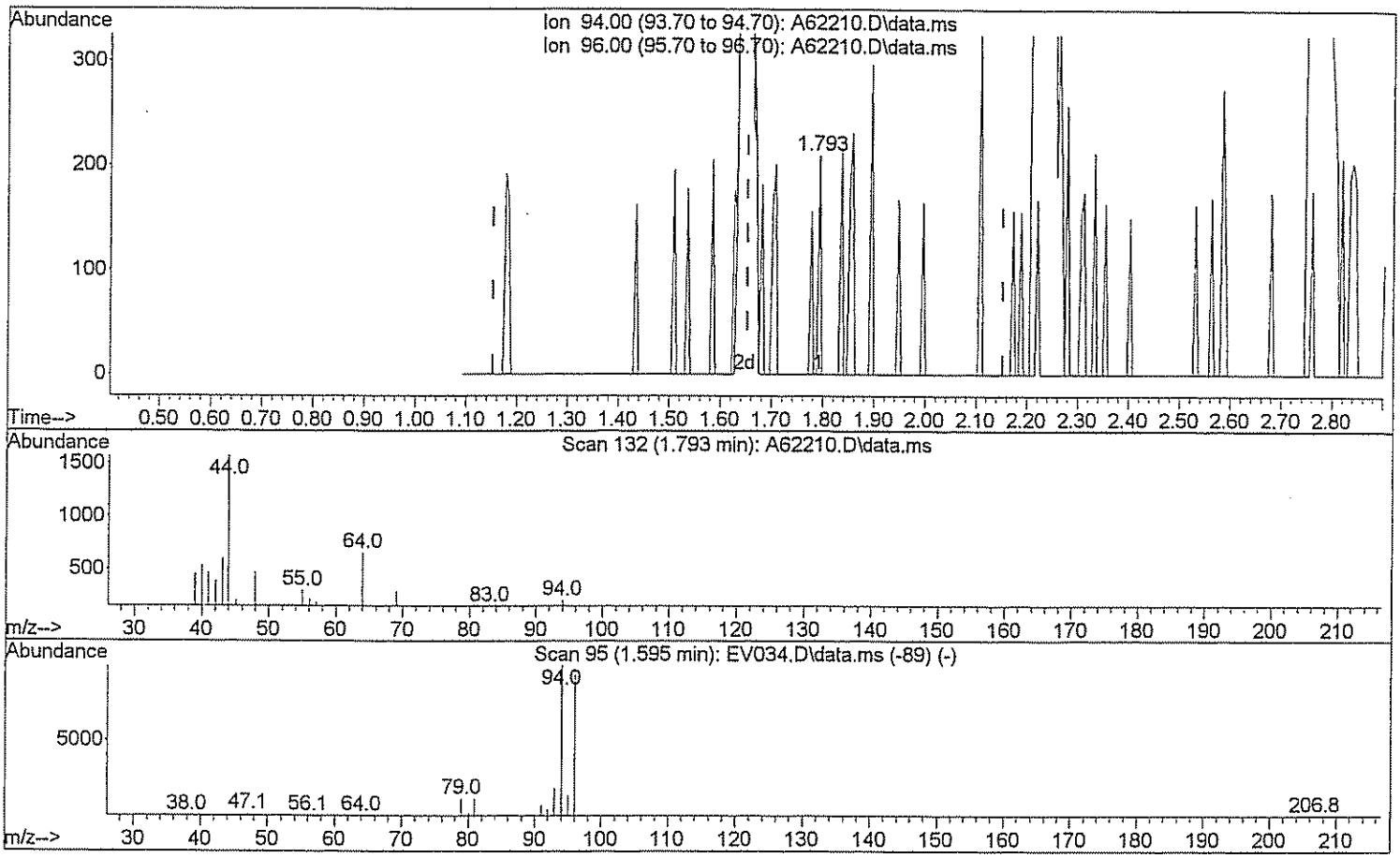
response 4413

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	4.74#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(5) Bromomethane

1.793min (+0.139) 0.13 ug/L

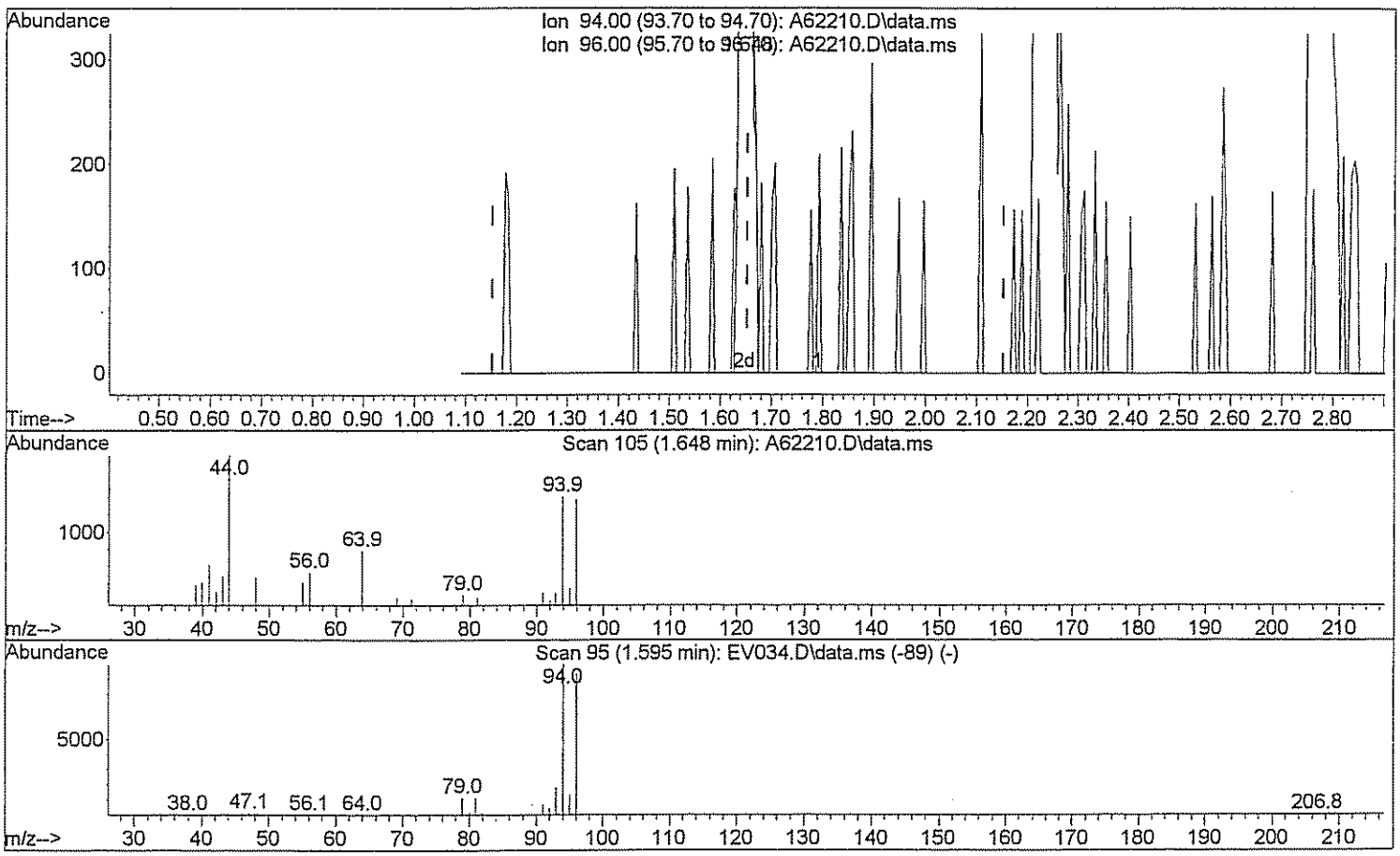
response 67

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	102.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(5) Bromomethane

1.648min (-0.005) 3.59 ug/L m DM 3/12/09

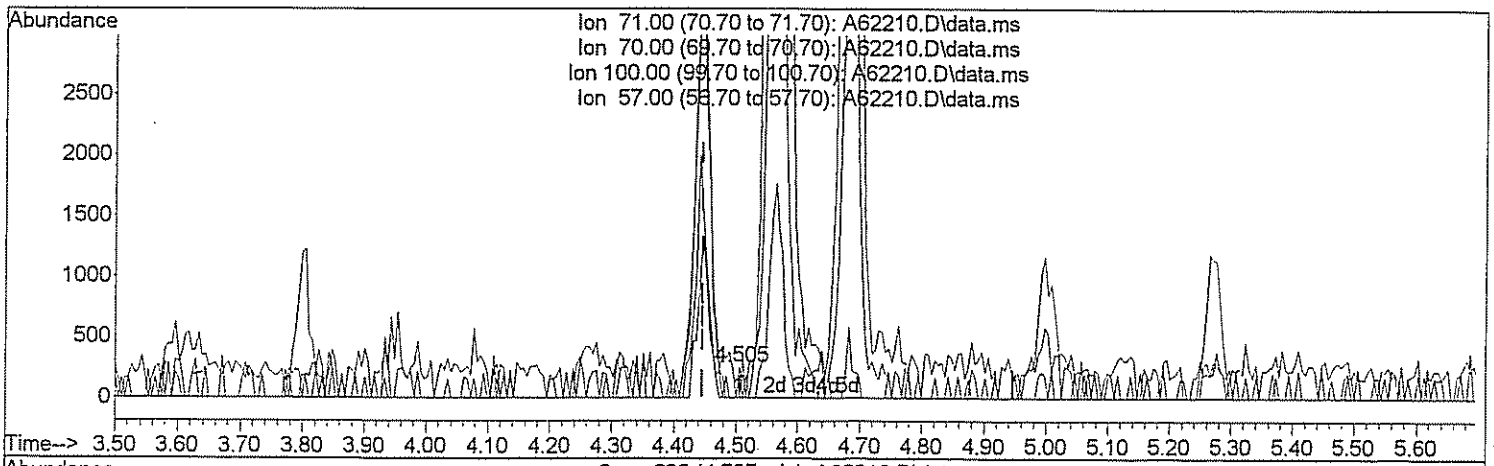
response 1858

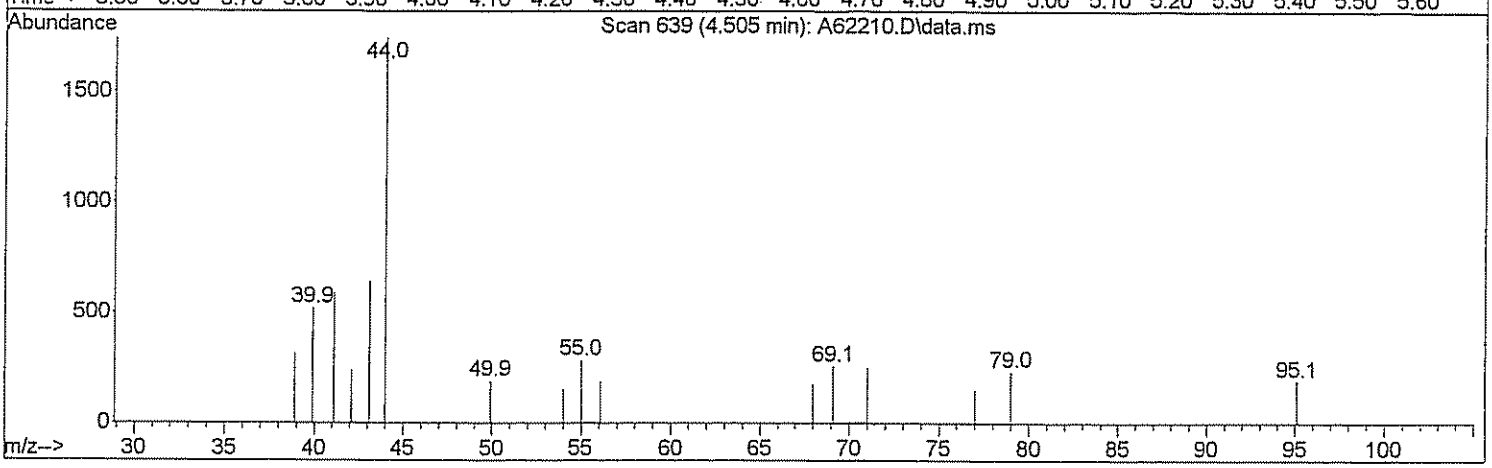
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	3.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration





TIC: A62210.D\data.ms

(26) n-Heptane (T)

4.505min (+0.059) 0.13 ug/L

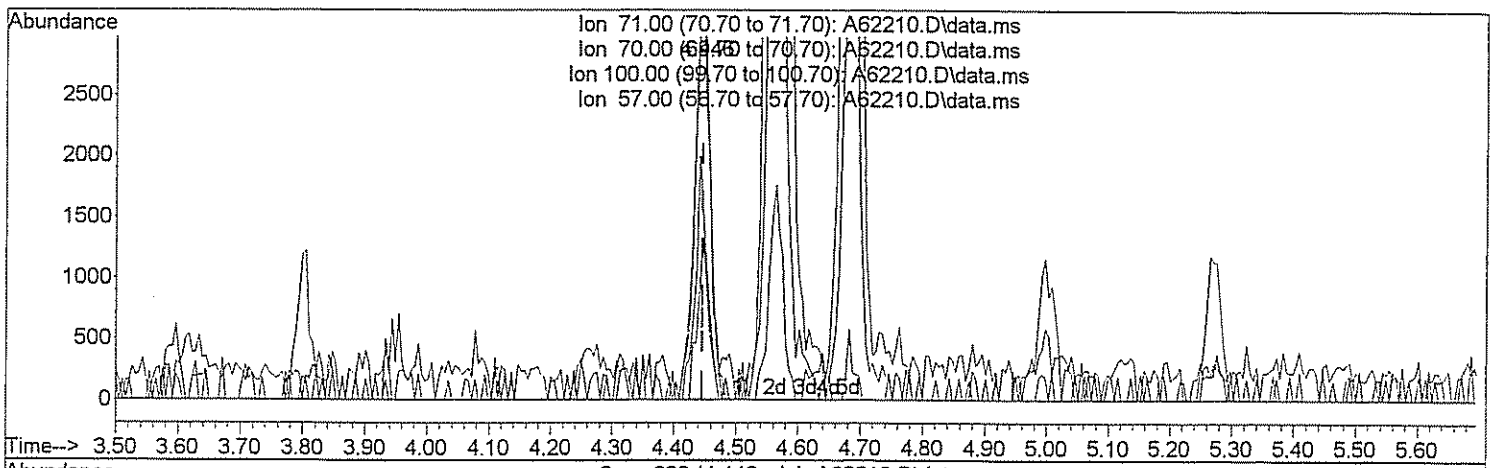
response 140

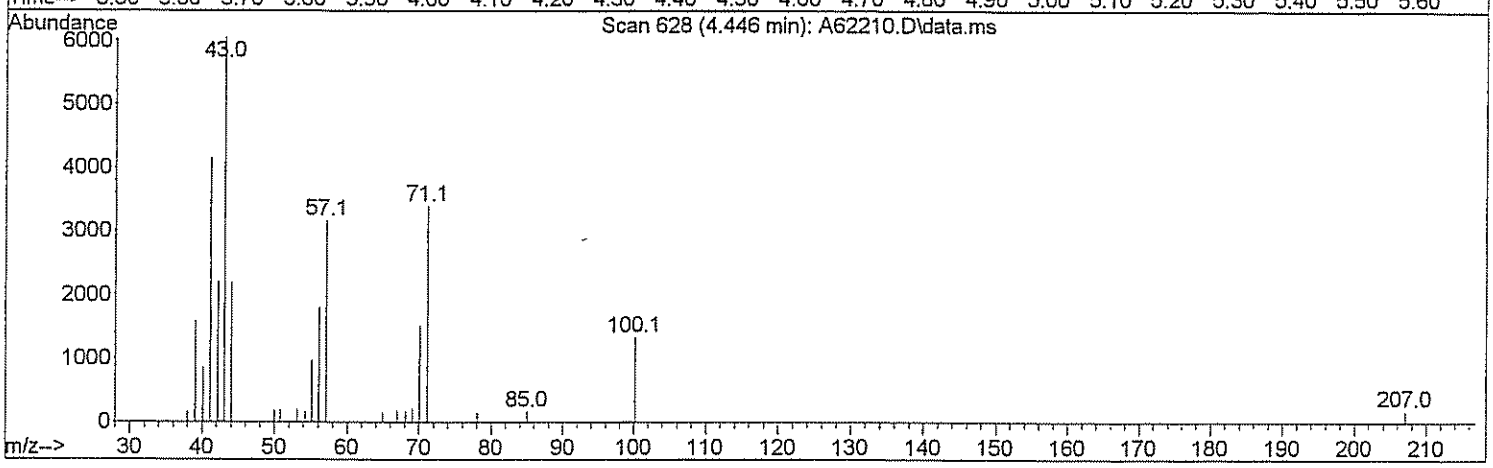
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	60.00	0.00#
57.00	34.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration





TIC: A62210.D\data.ms

(26) n-Heptane (T)

4.446min (-0.000) 5.08 ug/L m SM 3/12/09

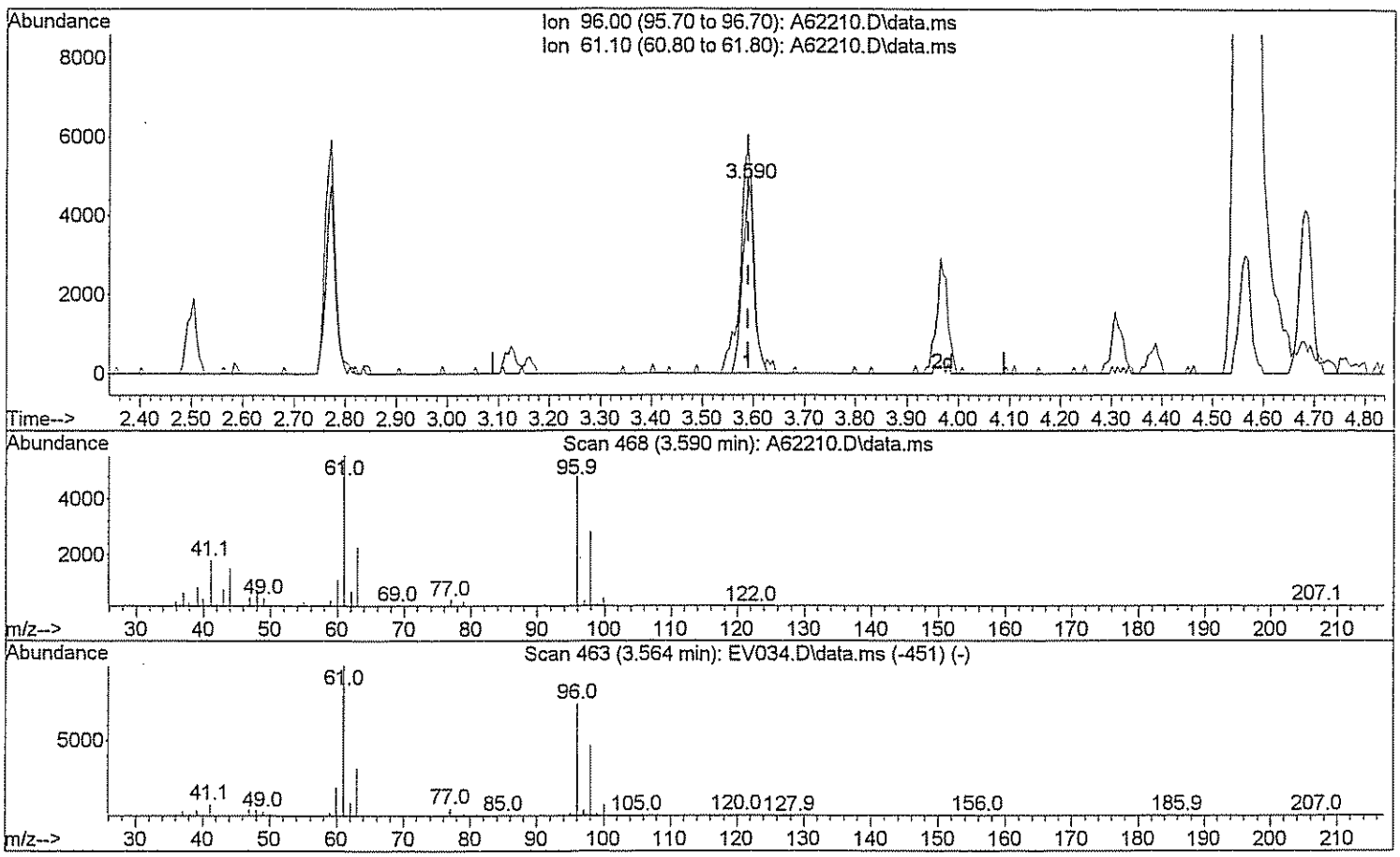
response 5639

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	60.00	0.00#
57.00	34.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.000) 5.06 ug/L

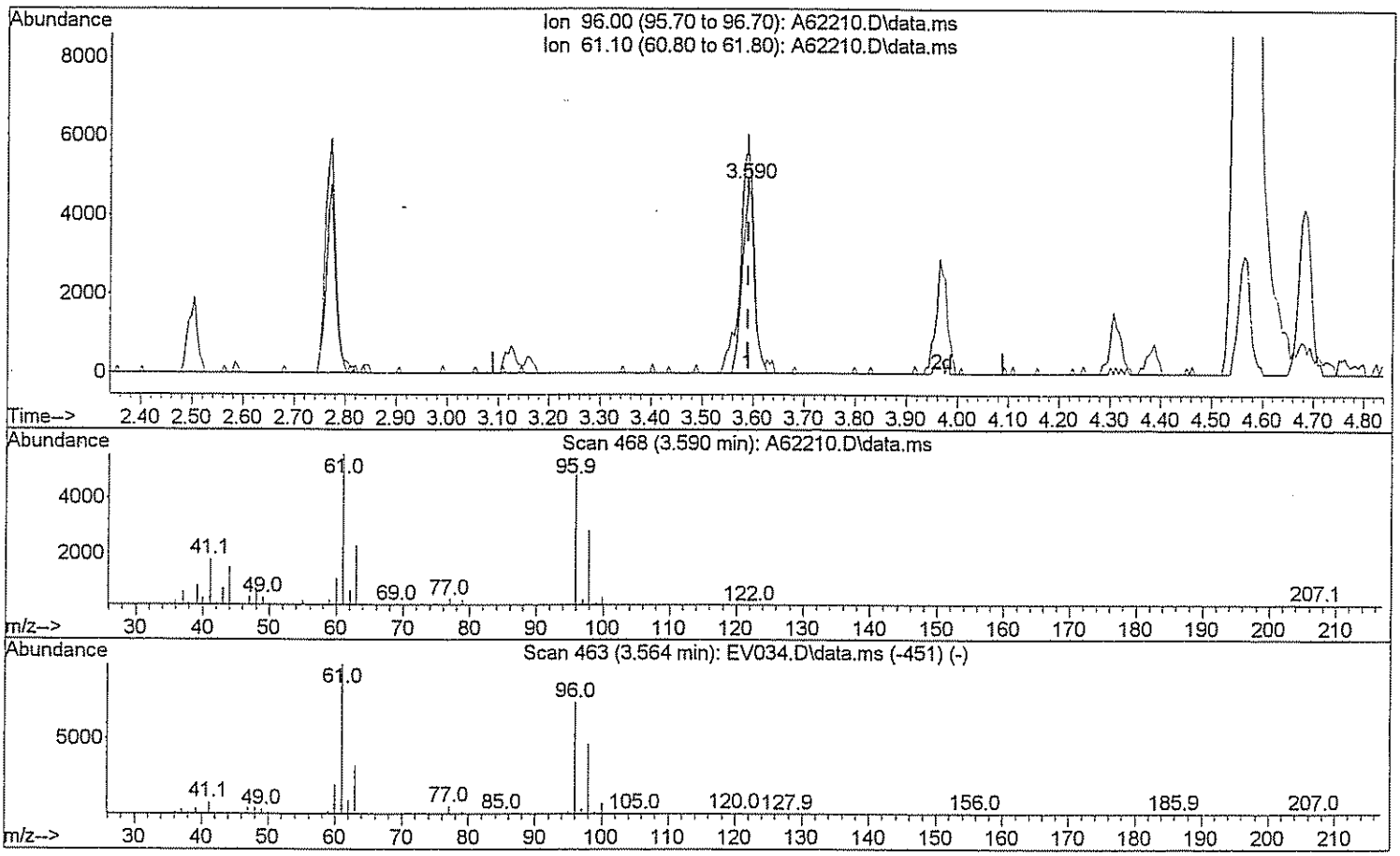
response 7602

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	144.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.000) 9.67 ug/L m SW 3/12/09

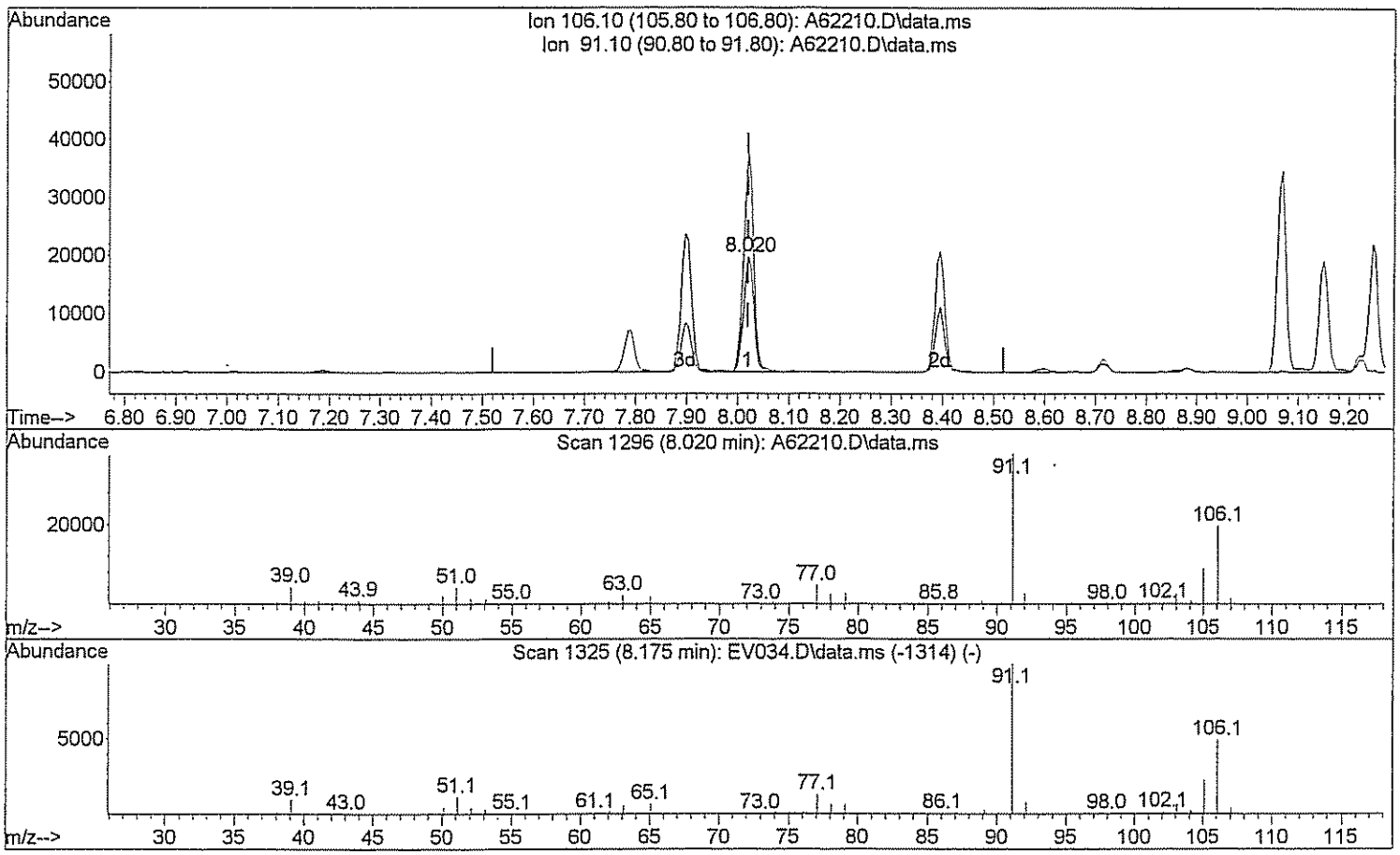
response 14539

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	75.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 8.68 ug/L

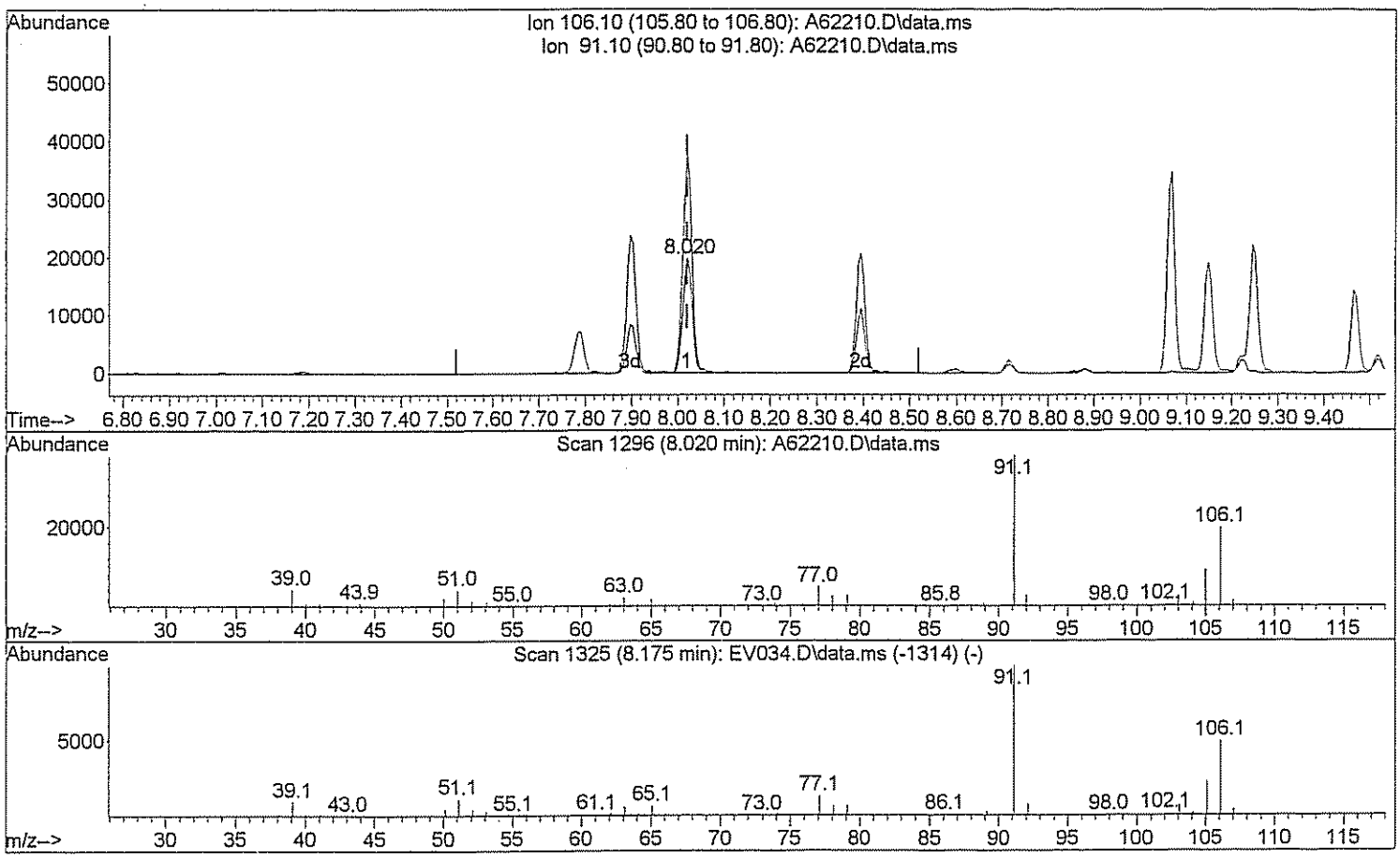
response 27480

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 13.09 ug/L m LM 3/12/09

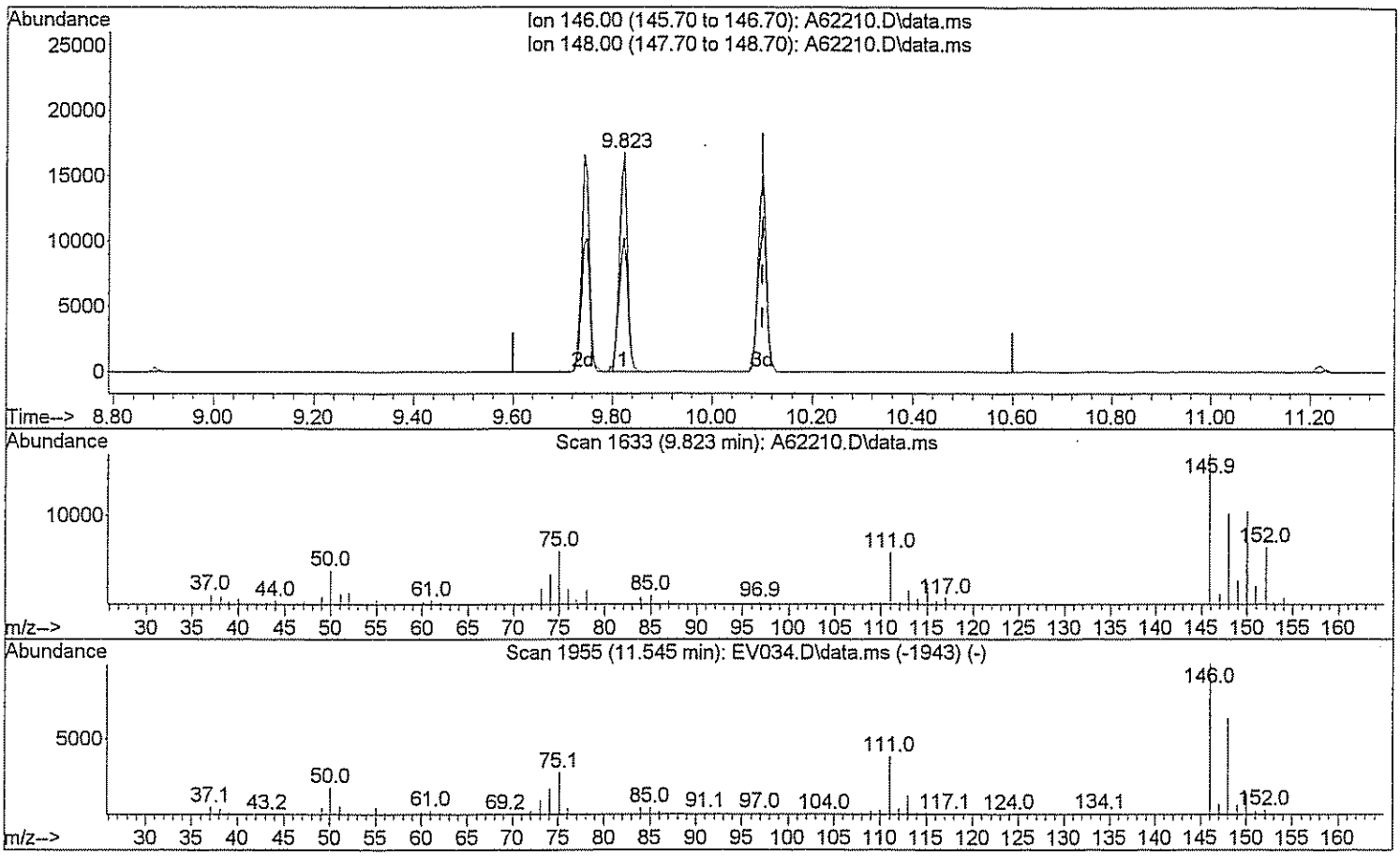
response 41457

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.27#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(92) 1,2-Dichlorobenzene

9.823min (-0.278) 4.58 ug/L

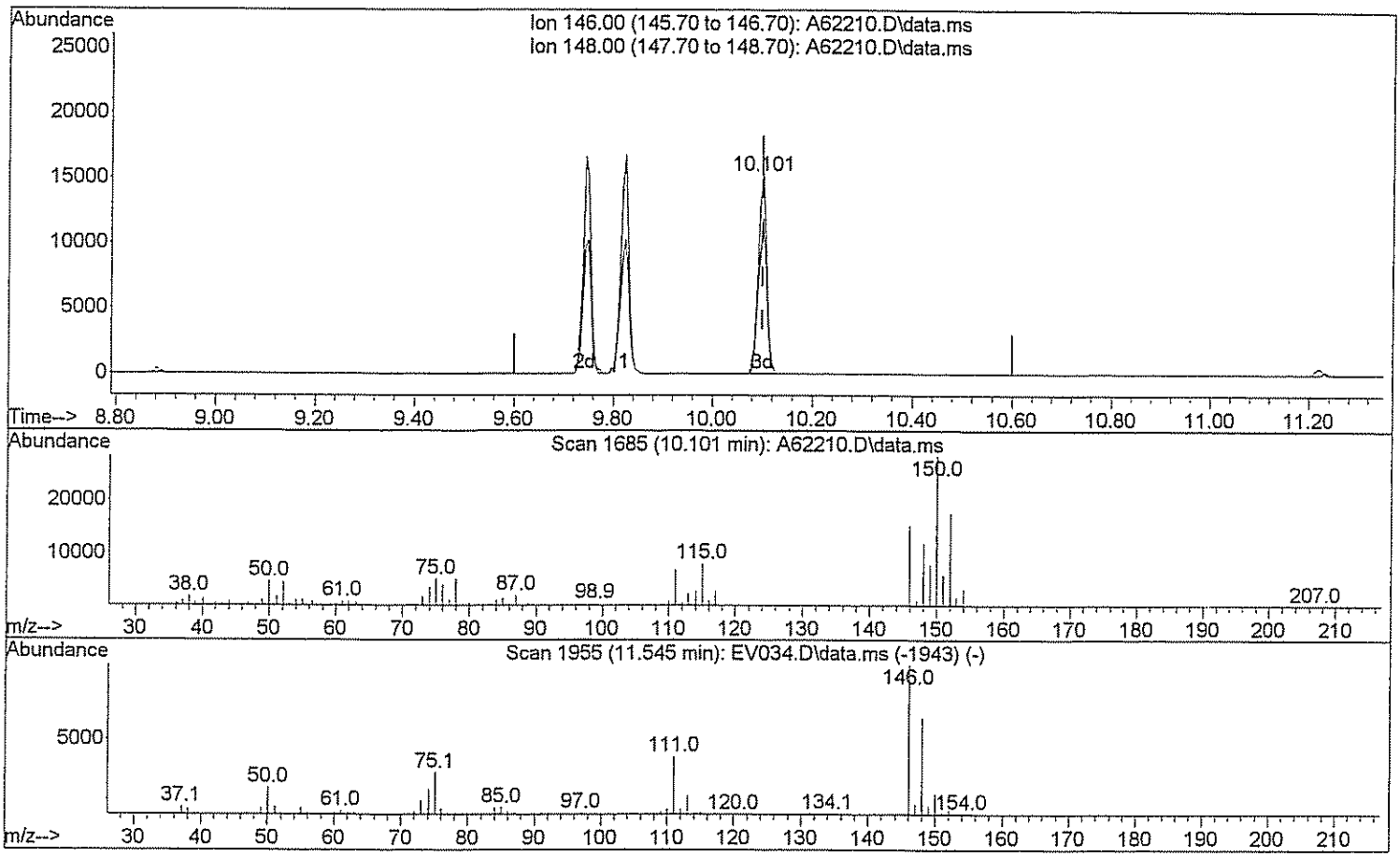
response 18842

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	66.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(92) 1,2-Dichlorobenzene

10.101min (-0.000) 4.30 ug/L m Sm 3/12/09

response 17699

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	70.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	409726	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	330513	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.785	117	315909	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	110975	48.69	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.38%				
53) Toluene-d8	6.148	98	379105	53.28	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 106.56%				
75) 4-Bromofluorobenzene	8.881	95	152358	48.07	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.14%				
91) 1,2-Dichlorobenzene-d4	10.085	152	167323	48.12	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 96.24%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	19480	21.73	ug/L		97
3) Chloromethane	1.349	50	23222m	14.27	ug/L		
4) Vinyl chloride	1.419	62	32576	19.04	ug/L		94
5) Bromomethane	1.654	94	10106m	15.46	ug/L		
6) Chloroethane	1.723	64	22942	19.88	ug/L		94
7) Trichlorofluoromethane	1.868	101	44284	16.03	ug/L		100
8) Ethyl Ether	2.066	59	28733	18.46	ug/L		97
9) Freon 113	2.205	101	28845	21.34	ug/L		89
10) Acrolein	2.216	56	28388	81.65	ug/L	#	61
11) Tert-Butyl alcohol	2.681	59	41475	235.05	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	28807	19.62	ug/L		81
13) Iodomethane	2.355	142	28958	17.12	ug/L		98
14) Acetonitrile	2.505	40	144920	150.20	ug/L	#	1
15) Methylene chloride	2.611	84	35741	20.35	ug/L		95
16) Trans-1,2-dichloroethene	2.777	96	31259	19.19	ug/L		88
17) Isopropyl ether	3.109	45	125677	19.13	ug/L		98
18) 1,1-Dichloroethane	3.125	63	56249	18.45	ug/L		97
19) Acetone	2.317	43	20383	30.96	ug/L		93
20) Methyl Acetate	4.265	43	21872	11.56	ug/L	#	100
21) MTBE	2.756	73	91808	19.12	ug/L		100
22) Carbon disulfide	2.381	76	96195	20.60	ug/L		100
24) Acrylonitrile	2.852	53	49876	83.85	ug/L		97
25) Chloroprene	3.163	53	52417	19.68	ug/L		91
26) n-Heptane	4.446	71	29596m	23.29	ug/L		
27) 2,2-Dichloropropane	3.569	77	47849	19.51	ug/L	#	82
28) Cis-1,2-dichloroethene	3.591	96	36145	19.00	ug/L		97

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.591	96	70015m	38.80 ug/L		
30) Propionitrile	3.746	54	44496	152.51 ug/L		98
31) Bromochloromethane	3.799	128	17340	18.04 ug/L		99
32) Tetrahydrofuran	3.799	72	8278	16.04 ug/L	#	1
33) Chloroform	3.847	83	57558	17.21 ug/L		98
34) Cyclohexane	3.949	56	59758	20.79 ug/L		92
35) 1,1,1-Trichloroethane	3.970	97	47769	18.07 ug/L		98
36) Carbon tetrachloride	4.077	117	41168	18.32 ug/L		99
37) Methylcyclohexane	5.003	83	56613	20.37 ug/L		93
38) Isobutyl Alcohol	4.446	43	54351	456.36 ug/L		87
41) 2-Butanone	3.623	43	39756	33.50 ug/L		96
42) 1,1-Dichloropropene	4.109	75	41549	18.39 ug/L		99
43) Vinyl Acetate	3.152	43	44485	17.99 ug/L		96
44) Benzene	4.291	78	131773	18.16 ug/L		100
45) 1,2-Dichloroethane	4.388	62	42968	18.14 ug/L	#	87
46) Trichloroethene	4.890	95	33055	18.39 ug/L		96
47) 1,2-Dichloropropane	5.169	63	33765	17.10 ug/L		97
48) Methyl methacrylate	5.265	69	24981	17.88 ug/L		95
49) Dibromomethane	5.286	93	21693	17.76 ug/L		94
50) Bromodichloromethane	5.436	83	44815	17.75 ug/L		100
51) 2-Chloroethylvinyl ether	5.784	63	91447	67.79 ug/L		98
52) Cis-1,3-dichloropropene	5.918	75	52151	16.68 ug/L		98
54) Toluene	6.223	92	81022	20.48 ug/L		93
55) Trans-1,3-dichloropropene	6.570	75	48329	18.33 ug/L		97
56) Ethyl methacrylate	6.624	69	43535	18.47 ug/L		88
57) 1,1,2-Trichloroethane	6.779	83	26153	21.02 ug/L		97
59) 4-Methyl-2-pentanone	6.099	43	77981	35.75 ug/L		95
60) 2-Hexanone	7.068	43	51737	34.73 ug/L		99
61) Tetrachloroethene	6.800	166	33810	18.81 ug/L		96
62) 1,3-Dichloropropane	6.977	76	50610	18.89 ug/L		96
63) Dibromochloromethane	7.186	129	34334	17.46 ug/L		97
64) 1,2-Dibromoethane	7.319	107	31724	18.48 ug/L		99
65) 1-Chlorohexane	7.785	91	46819	18.71 ug/L		99
66) Chlorobenzene	7.811	112	100842	17.96 ug/L		91
67) 1,1,1,2-Tetrachloroethane	7.908	131	35757	16.36 ug/L		92
68) Ethylbenzene	7.897	91	164411	17.50 ug/L		98
69) m,p-Xylene	8.020	106	134760	34.29 ug/L		90
70) o-Xylene	8.395	106	67882	17.05 ug/L		93
71) Xylene (Total)	8.020	106	203312m	51.20 ug/L		
72) Styrene	8.421	104	114507	17.36 ug/L		96
73) Bromoform	8.598	173	23166	16.30 ug/L		98
74) Isopropylbenzene	8.716	105	150702	17.13 ug/L		100

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration

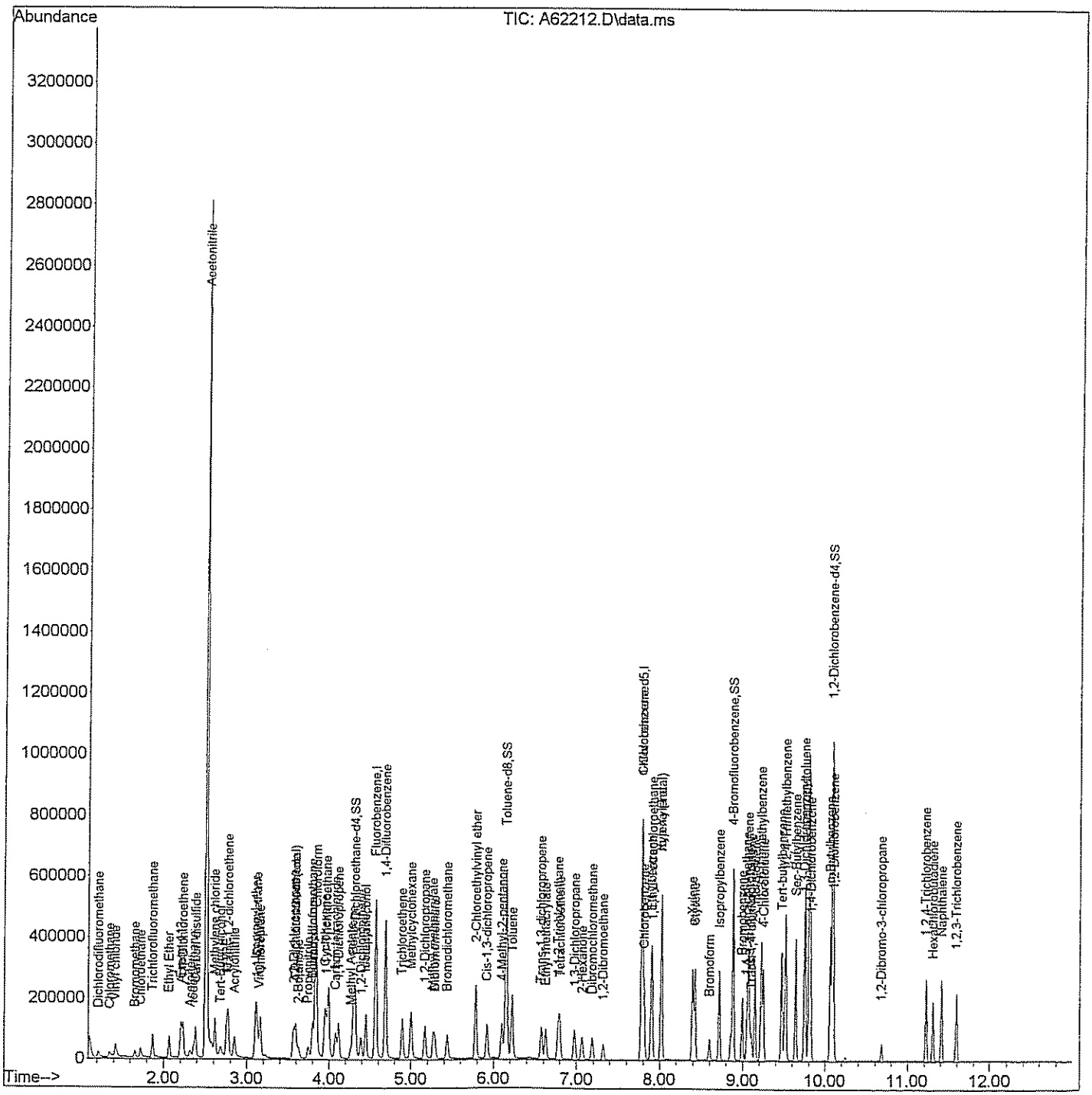
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) Bromobenzene	8.994	156	41612	17.15	ug/L		97
77) 1,1,2,2-Tetrachloroethane	9.047	83	44605	17.47	ug/L		97
78) 1,2,3-Trichloropropane	9.085	110	13392	17.69	ug/L		94
79) n-Propylbenzene	9.069	91	205193	17.34	ug/L		97
80) Trans-1,4-dichloro-2-b...	9.106	53	12672	15.88	ug/L	#	1
81) 2-Chlorotoluene	9.149	126	43189	16.99	ug/L		90
82) 4-Chlorotoluene	9.250	126	46625	17.68	ug/L		91
83) 1,3,5-Trimethylbenzene	9.224	105	152269	16.45	ug/L		96
84) Tert-butylbenzene	9.470	119	133899	16.17	ug/L		96
86) 1,2,4-Trimethylbenzene	9.518	105	157251	16.36	ug/L		93
87) Sec-Butylbenzene	9.641	105	211037	16.78	ug/L		98
88) 1,3-Dichlorobenzene	9.743	146	87761	15.95	ug/L		100
89) 4-Isopropyltoluene	9.753	119	179498	15.83	ug/L		98
90) 1,4-Dichlorobenzene	9.823	146	90943	16.72	ug/L		99
92) 1,2-Dichlorobenzene	10.101	146	87372	16.89	ug/L		97
93) n-Butylbenzene	10.058	91	170848	16.82	ug/L		95
94) 1,2-Dibromo-3-chloropr...	10.679	75	8734	16.38	ug/L		80
95) 1,2,4-Trichlorobenzene	11.219	180	56222	16.12	ug/L		98
96) Hexachlorobutadiene	11.305	225	24297	16.43	ug/L		99
97) Naphthalene	11.412	128	161770	16.87	ug/L		100
98) 1,2,3-Trichlorobenzene	11.594	180	50626	16.33	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

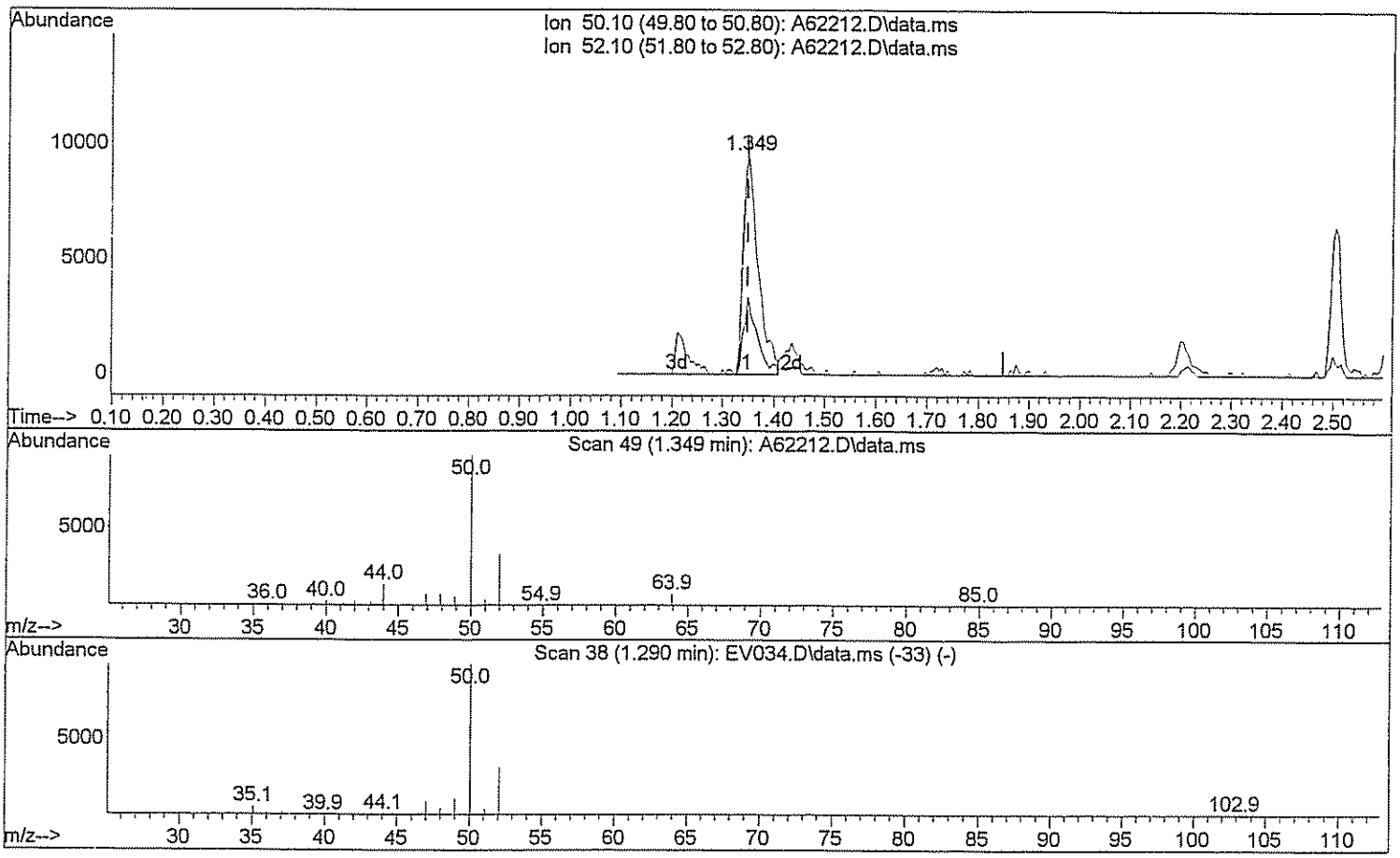
Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(3) Chloromethane

1.349min (-0.000) 11.81 ug/L

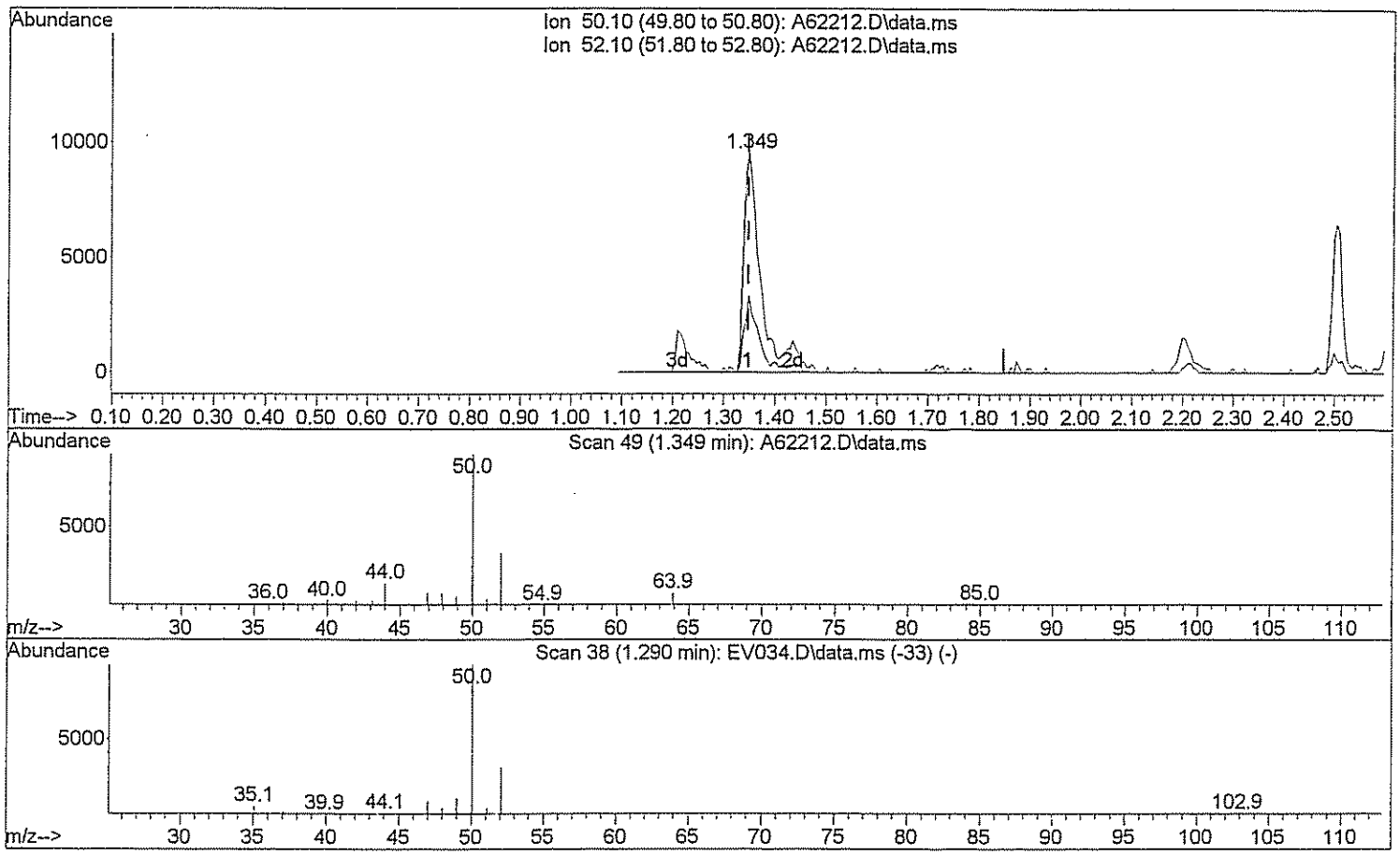
response 19214

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	30.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(3) Chloromethane

1.349min (-0.000) 14.27 ug/L m DW 3/12/09

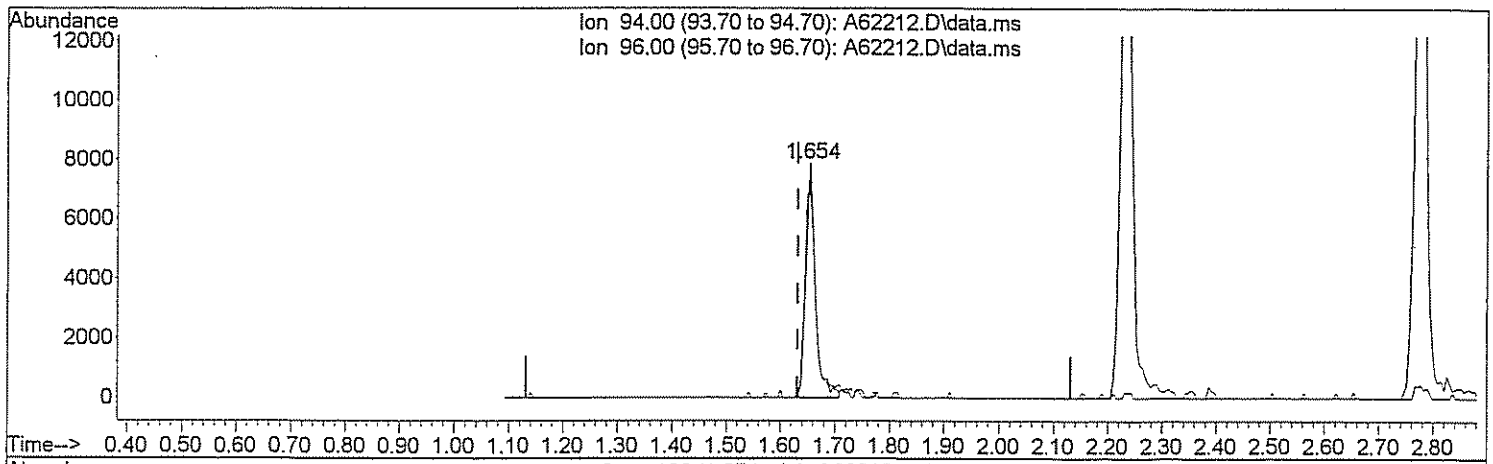
response 23222

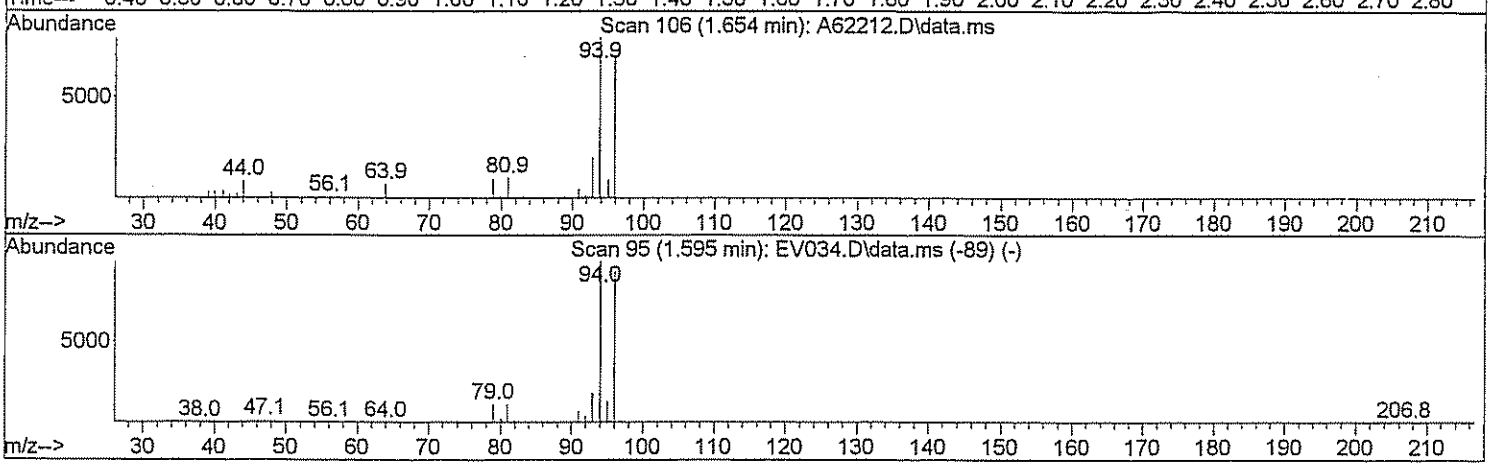
Ion	Exp%	Act%
50.10	100	100
52.10	32.20	25.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration





TIC: A62212.D\data.ms

(5) Bromomethane

1.654min (+0.021) 14.75 ug/L

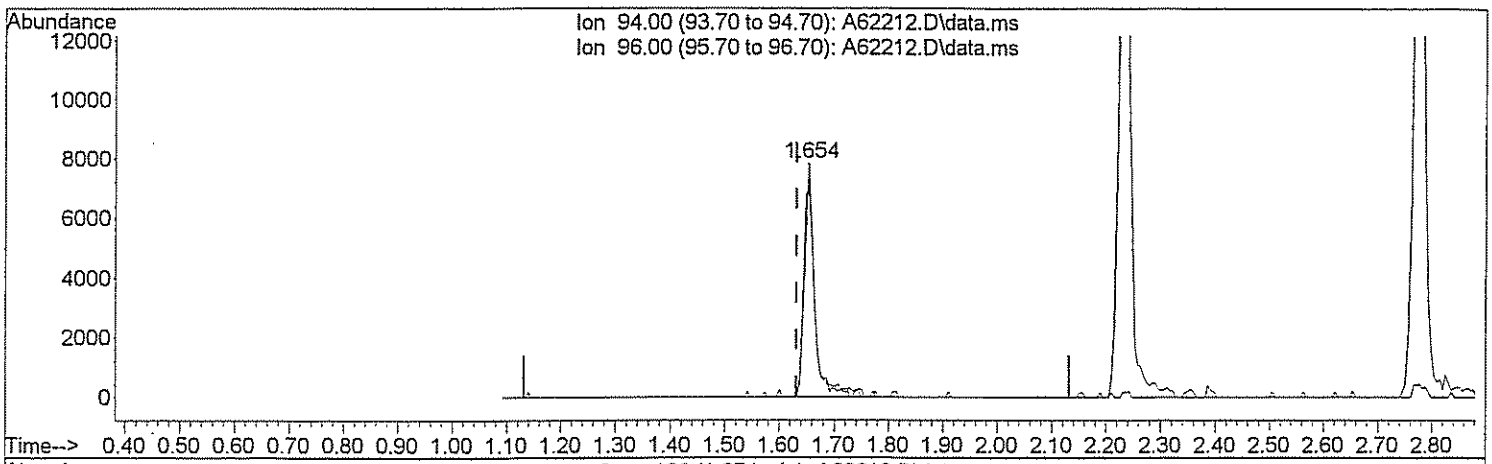
response 9642

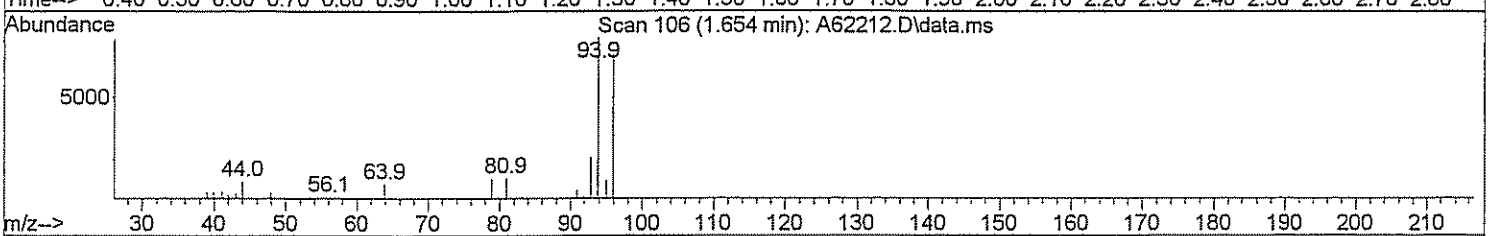
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	104.59
0.00	0.00	0.00
0.00	0.00	0.00

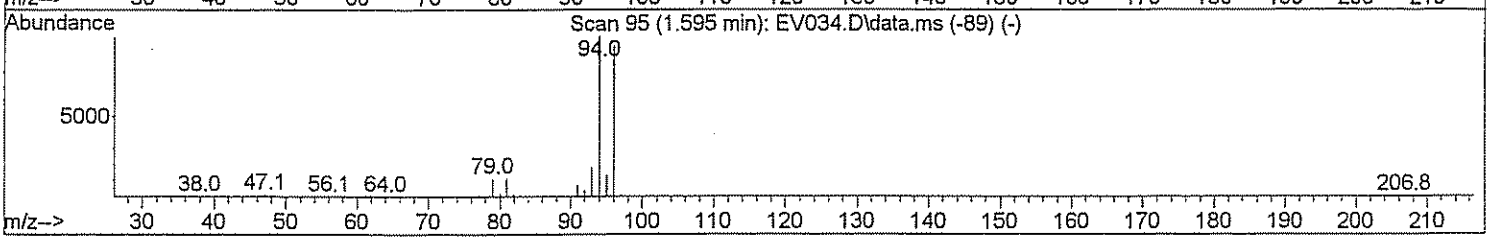
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration







TIC: A62212.D\data.ms

(5) Bromomethane

1.654min (+0.021) 15.46 ug/L m DMW 3/12/09

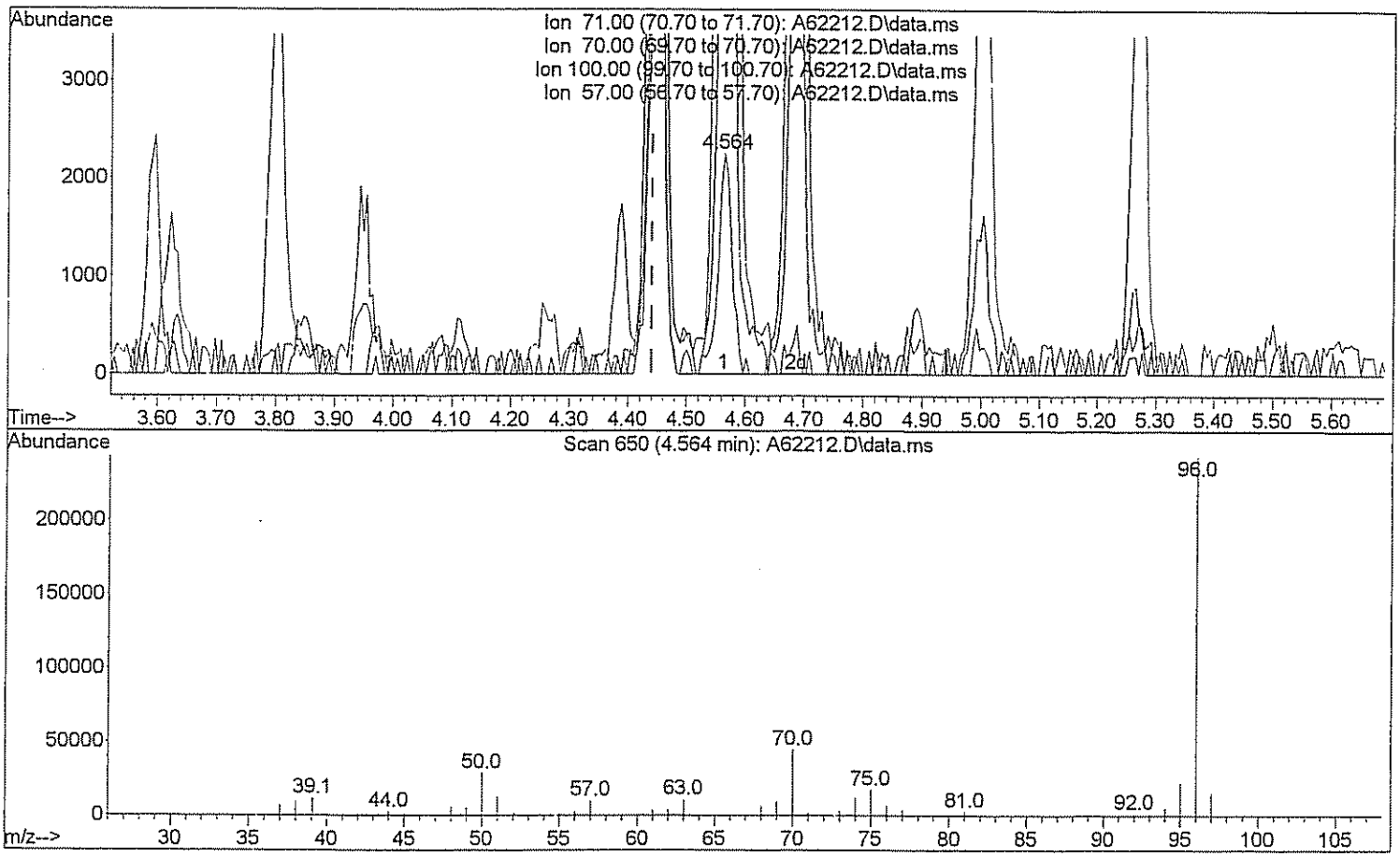
response 10106

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	99.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(26) n-Heptane (T)

4.564min (+0.123) 3.00 ug/L

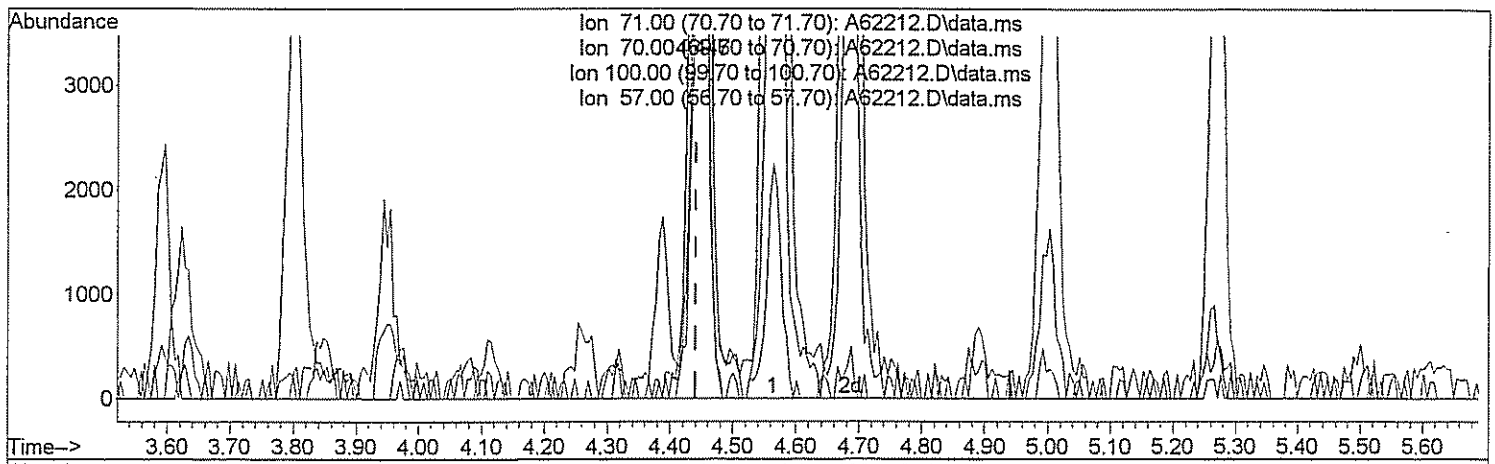
response 3811

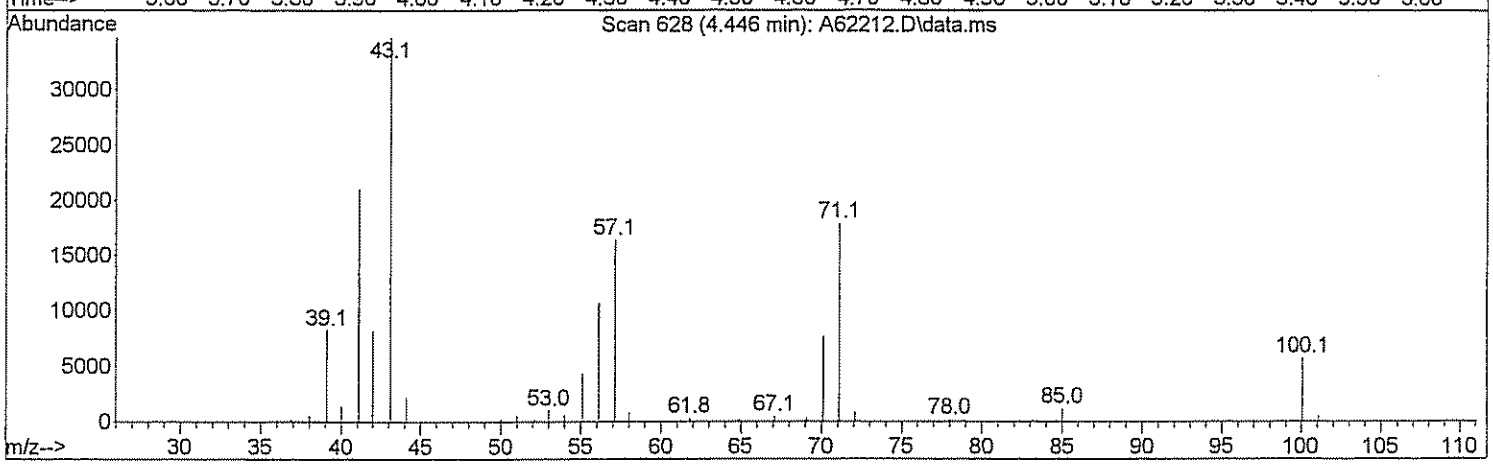
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1904.36#
100.00	60.00	0.00#
57.00	34.00	460.64#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration





TIC: A62212.D\data.ms

(26) n-Heptane (T)

4.446min (+0.005) 23.29 ug/L m DW 3/12/09

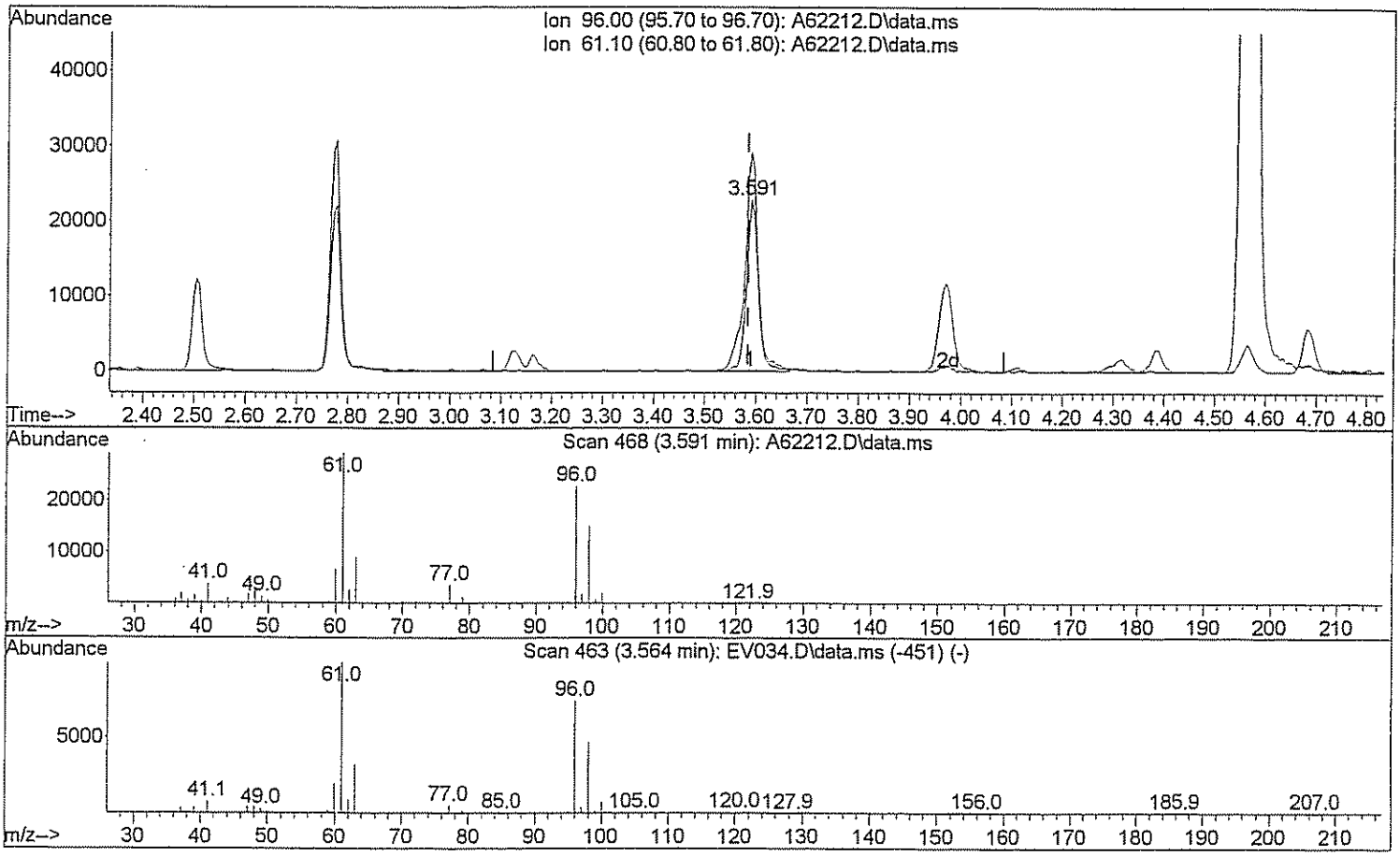
response 29596

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	245.22#
100.00	60.00	0.00#
57.00	34.00	59.32#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (+0.005) 20.03 ug/L

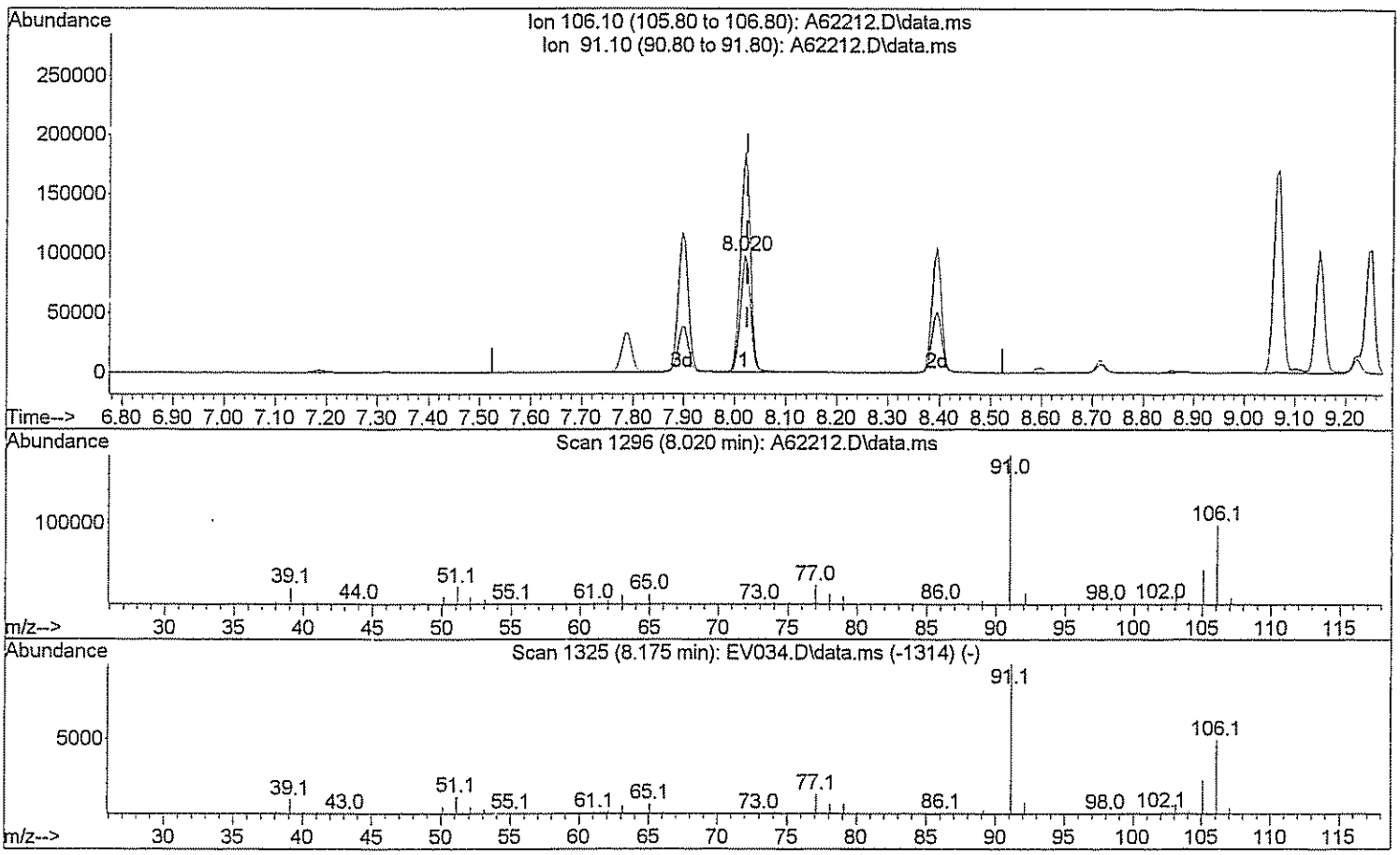
response 36145

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	147.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(71) Xylene (Total)

8.020min (-0.005) 33.94 ug/L

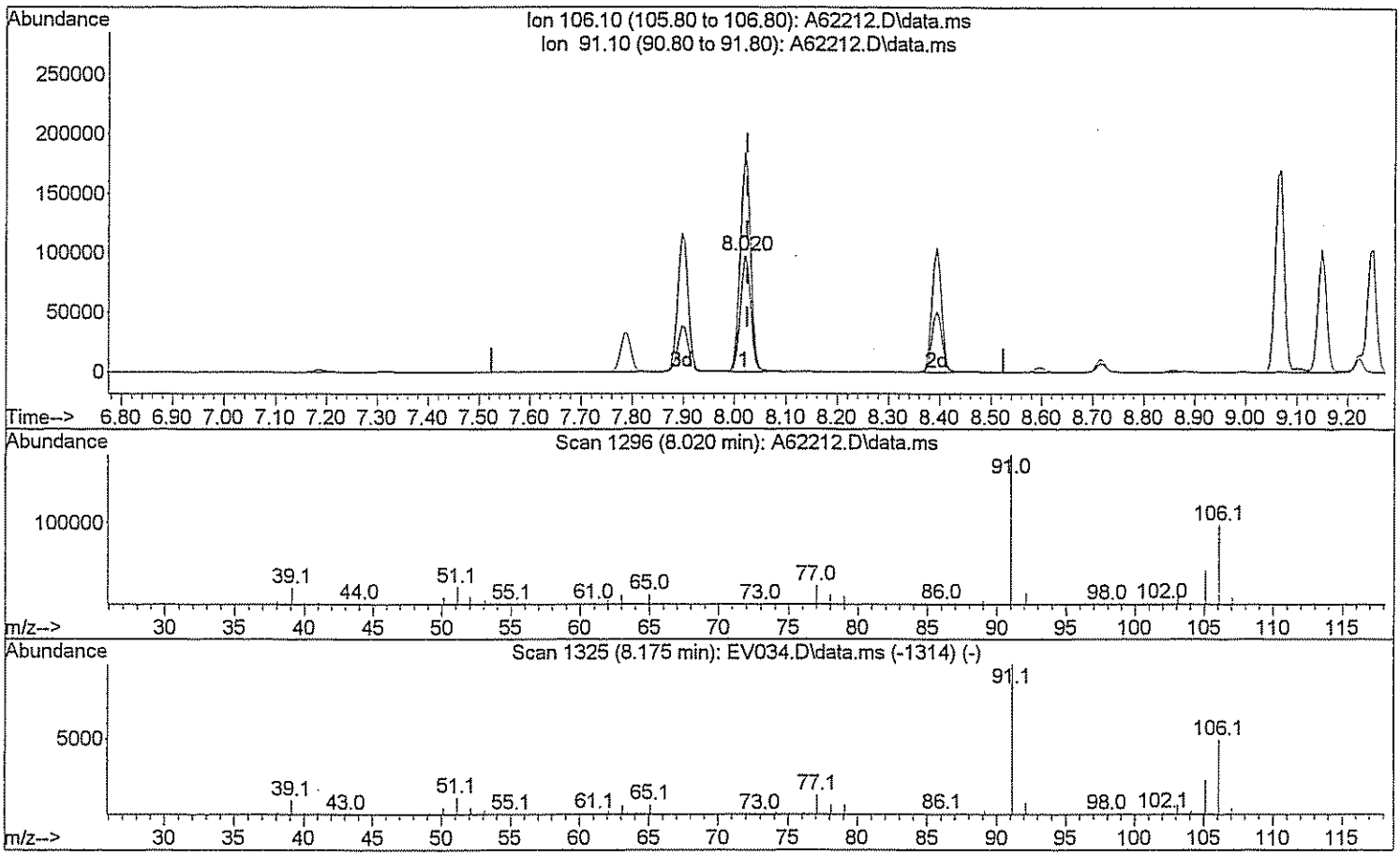
response 134760

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(71) Xylene (Total)

8.020min (-0.005) 51.20 ug/L m DW 3/12/09

response 203312

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	127.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.569	96	491115	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	404603	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.779	117	298407	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	131037	50.00	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.00%				
53) Toluene-d8	6.148	98	337500	50.00	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.00%				
75) 4-Bromofluorobenzene	8.881	95	149239	50.00	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.00%				
91) 1,2-Dichlorobenzene-d4	10.090	152	162190	50.00	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 100.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	42446	50.00	ug/L		90
3) Chloromethane	1.349	50	51910	50.00	ug/L		99
4) Vinyl chloride	1.419	62	82006	50.00	ug/L		98
5) Bromomethane	1.654	94	26789	50.00	ug/L		96
6) Chloroethane	1.723	64	57388	50.00	ug/L		96
7) Trichlorofluoromethane	1.868	101	106667	50.00	ug/L		99
8) Ethyl Ether	2.066	59	73001	50.00	ug/L		95
9) Freon 113	2.205	101	63940	50.00	ug/L		88
10) Acrolein	2.216	56	74811	250.00	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	115413	1000.00	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	68693	50.00	ug/L		91
13) Iodomethane	2.360	142	88682	50.00	ug/L		94
14) Acetonitrile	2.504	40	433763	500.00	ug/L	#	1
15) Methylene chloride	2.611	84	89374	50.00	ug/L		96
16) Trans-1,2-dichloroethene	2.777	96	81757	50.00	ug/L		87
17) Isopropyl ether	3.109	45	326624	50.00	ug/L		98
18) 1,1-Dichloroethane	3.125	63	153780	50.00	ug/L		97
19) Acetone	2.317	43	55424	100.00	ug/L		97
20) Methyl Acetate	4.265	43	74238	50.00	ug/L	#	100
21) MTBE	2.756	73	237035	50.00	ug/L		100
22) Carbon disulfide	2.381	76	230751	50.00	ug/L		100
24) Acrylonitrile	2.852	53	131989	250.00	ug/L		100
25) Chloroprene	3.163	53	132715	50.00	ug/L		92
26) n-Heptane	4.446	71	75854m	50.07	ug/L		
27) 2,2-Dichloropropane	3.564	77	129938	50.00	ug/L	#	82
28) Cis-1,2-dichloroethene	3.590	96	101626	50.00	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	186209m	100.16 ug/L	
30) Propionitrile	3.746	54	130510	500.00 ug/L	98
31) Bromochloromethane	3.799	128	51407	50.00 ug/L	95
32) Tetrahydrofuran	3.804	72	24735	50.00 ug/L #	1
33) Chloroform	3.853	83	170331	50.00 ug/L	98
34) Cyclohexane	3.949	56	157287	50.00 ug/L	93
35) 1,1,1-Trichloroethane	3.970	97	146924	50.00 ug/L	100
36) Carbon tetrachloride	4.077	117	128169	50.00 ug/L	99
37) Methylcyclohexane	5.003	83	160501	50.00 ug/L	94
38) Isobutyl Alcohol	4.446	43	138617	1000.00 ug/L	88
41) 2-Butanone	3.623	43	112688	100.00 ug/L	96
42) 1,1-Dichloropropene	4.109	75	131647	50.00 ug/L	99
43) Vinyl Acetate	3.152	43	120842	50.00 ug/L	97
44) Benzene	4.297	78	421750	50.00 ug/L	100
45) 1,2-Dichloroethane	4.388	62	136806	50.00 ug/L #	84
46) Trichloroethene	4.896	95	107324	50.00 ug/L	90
47) 1,2-Dichloropropane	5.169	63	117779	50.00 ug/L	96
48) Methyl methacrylate	5.265	69	80158	50.00 ug/L	98
49) Dibromomethane	5.286	93	71099	50.00 ug/L	99
50) Bromodichloromethane	5.436	83	150108	50.00 ug/L	100
51) 2-Chloroethylvinyl ether	5.784	63	304642	200.00 ug/L	97
52) Cis-1,3-dichloropropene	5.918	75	184772	50.00 ug/L	100
54) Toluene	6.223	92	205842	50.00 ug/L	98
55) Trans-1,3-dichloropropene	6.576	75	125355	50.00 ug/L	98
56) Ethyl methacrylate	6.624	69	111732	50.00 ug/L	93
57) 1,1,2-Trichloroethane	6.779	83	65466	50.00 ug/L	98
59) 4-Methyl-2-pentanone	6.099	43	194154	100.00 ug/L	95
60) 2-Hexanone	7.068	43	139217	100.00 ug/L	97
61) Tetrachloroethene	6.795	166	83952	50.00 ug/L	94
62) 1,3-Dichloropropane	6.977	76	127175	50.00 ug/L	94
63) Dibromochloromethane	7.185	129	90502	50.00 ug/L	100
64) 1,2-Dibromoethane	7.319	107	81199	50.00 ug/L	99
65) 1-Chlorohexane	7.790	91	118247	50.00 ug/L	94
66) Chlorobenzene	7.811	112	258233	50.00 ug/L	90
67) 1,1,1,2-Tetrachloroethane	7.908	131	98535	50.00 ug/L	97
68) Ethylbenzene	7.902	91	429864	50.00 ug/L	99
69) m,p-Xylene	8.020	106	354164	100.00 ug/L	91
70) o-Xylene	8.395	106	181276	50.00 ug/L	91
71) Xylene (Total)	8.020	106	537873m	150.14 ug/L	
72) Styrene	8.421	104	302804	50.00 ug/L	97
73) Bromoform	8.598	173	63027	50.00 ug/L	99
74) Isopropylbenzene	8.715	105	394343	50.00 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

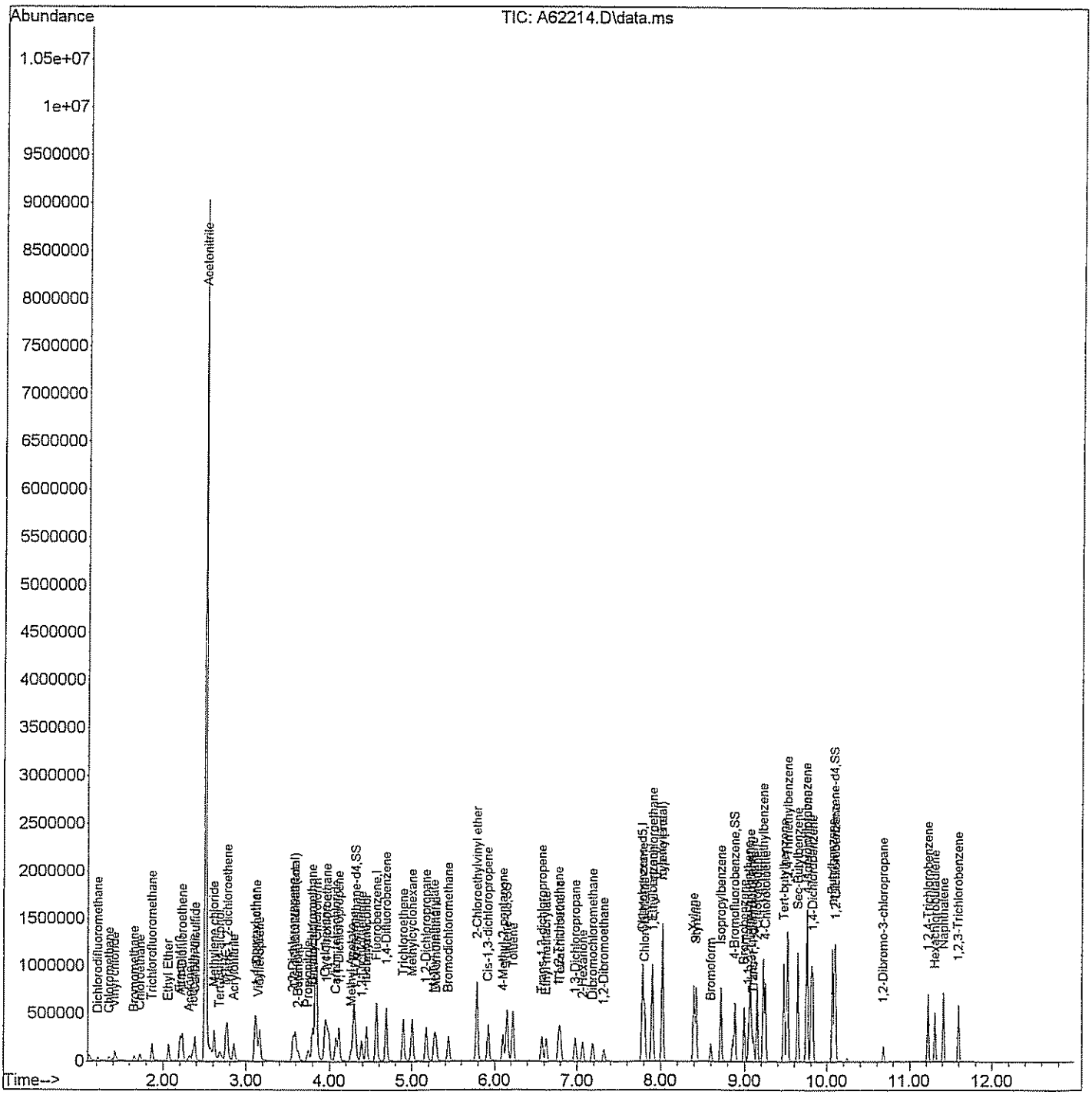
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) Bromobenzene	8.994	156	111914	50.00	ug/L		97
77) 1,1,2,2-Tetrachloroethane	9.047	83	116503	50.00	ug/L		97
78) 1,2,3-Trichloropropane	9.085	110	33906	50.00	ug/L		94
79) n-Propylbenzene	9.069	91	547566	50.00	ug/L		98
80) Trans-1,4-dichloro-2-b...	9.106	53	34644	50.00	ug/L	#	23
81) 2-Chlorotoluene	9.149	126	119201	50.00	ug/L		87
82) 4-Chlorotoluene	9.250	126	123631	50.00	ug/L		91
83) 1,3,5-Trimethylbenzene	9.224	105	416986	50.00	ug/L		96
84) Tert-butylbenzene	9.470	119	368649	50.00	ug/L		95
86) 1,2,4-Trimethylbenzene	9.518	105	431077	50.00	ug/L		93
87) Sec-Butylbenzene	9.641	105	570872	50.00	ug/L		99
88) 1,3-Dichlorobenzene	9.748	146	243598	50.00	ug/L		100
89) 4-Isopropyltoluene	9.759	119	496608	50.00	ug/L		97
90) 1,4-Dichlorobenzene	9.823	146	248499	50.00	ug/L		98
92) 1,2-Dichlorobenzene	10.101	146	235473	50.00	ug/L		97
93) n-Butylbenzene	10.058	91	460347	50.00	ug/L		95
94) 1,2-Dibromo-3-chloropr...	10.679	75	23650	50.00	ug/L	#	78
95) 1,2,4-Trichlorobenzene	11.225	180	155200	50.00	ug/L		98
96) Hexachlorobutadiene	11.305	225	61951	50.00	ug/L		100
97) Naphthalene	11.412	128	427662	50.00	ug/L		100
98) 1,2,3-Trichlorobenzene	11.594	180	139897	50.00	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

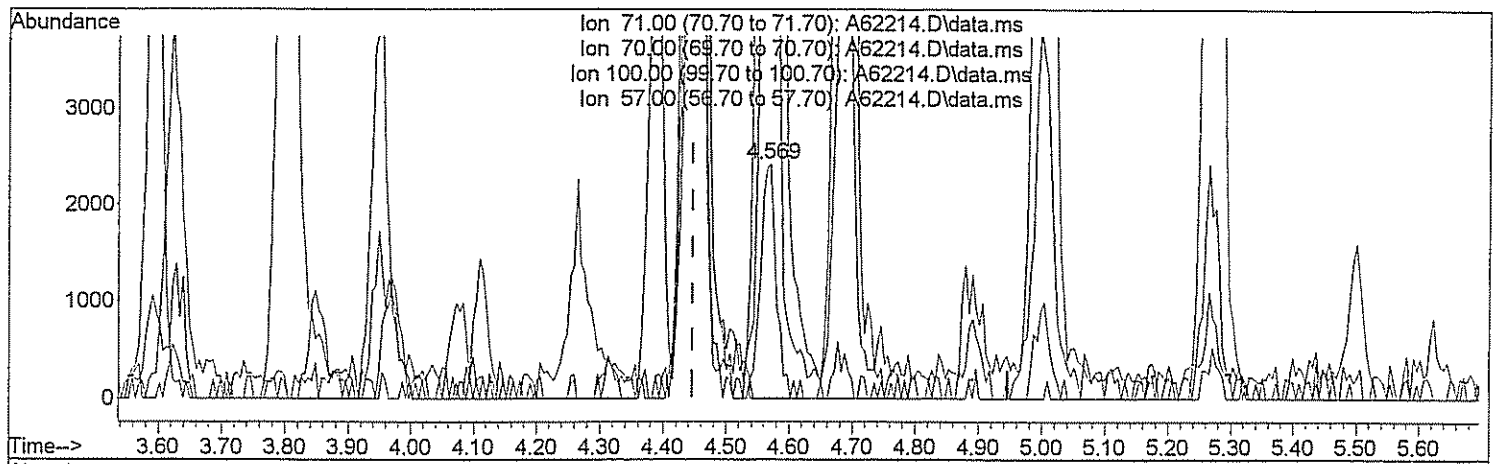
Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

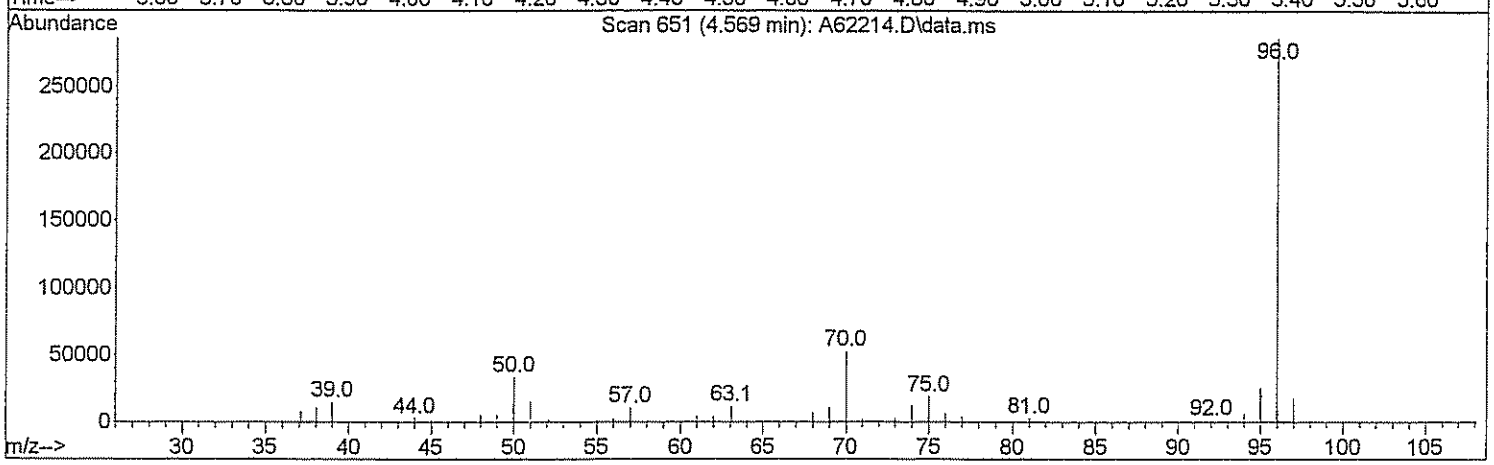


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration





TIC: A62214.D\data.ms

(26) n-Heptane (T)

4.569min (+0.123) 2.74 ug/L

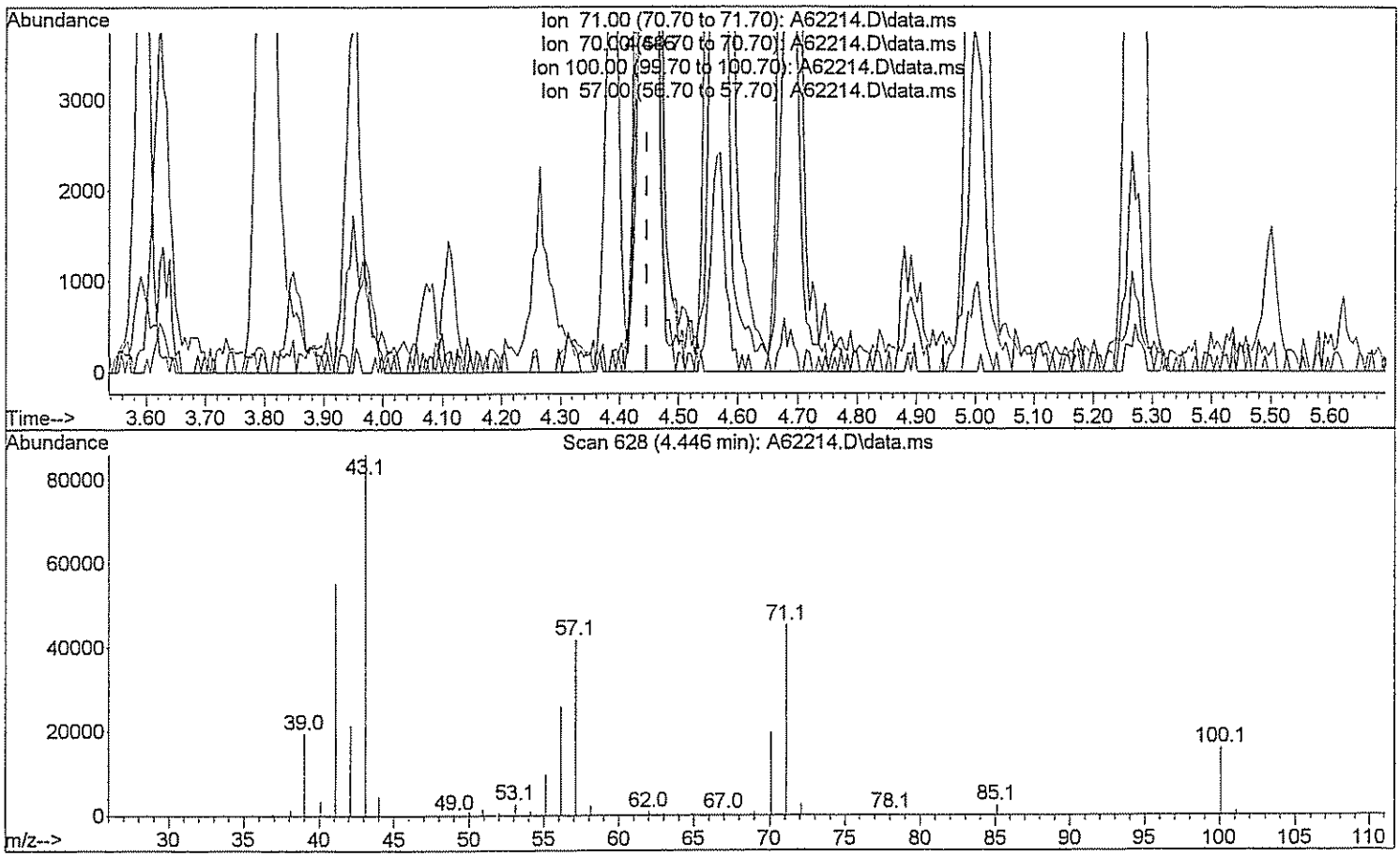
response 4156

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2111.07#
100.00	60.00	0.00#
57.00	34.00	454.33#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(26) n-Heptane (T)

4.446min (0.000) 50.07 ug/L m SM 3/12/09

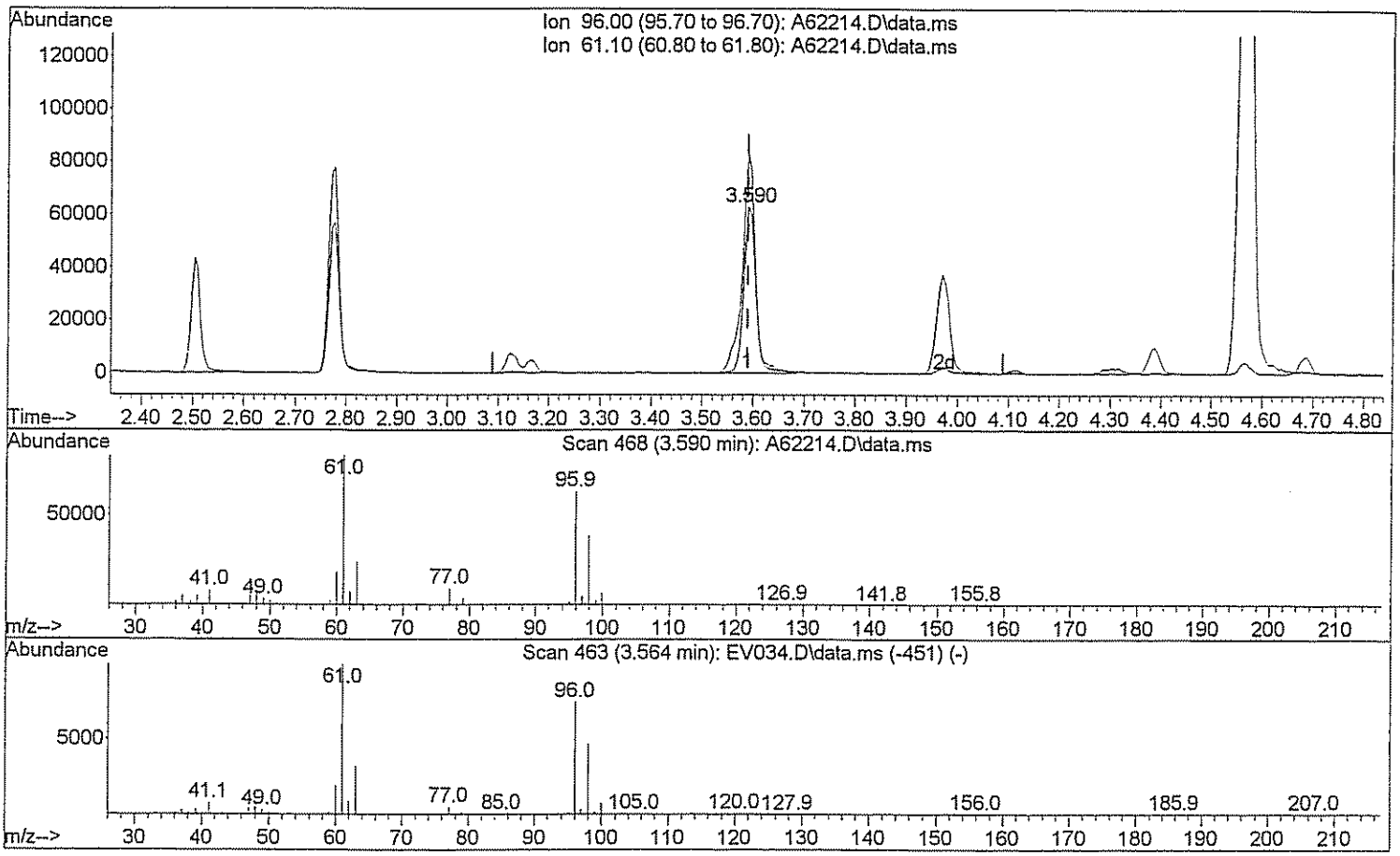
response 75854

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	115.66#
100.00	60.00	0.00#
57.00	34.00	24.89#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (0.000) 54.67 ug/L

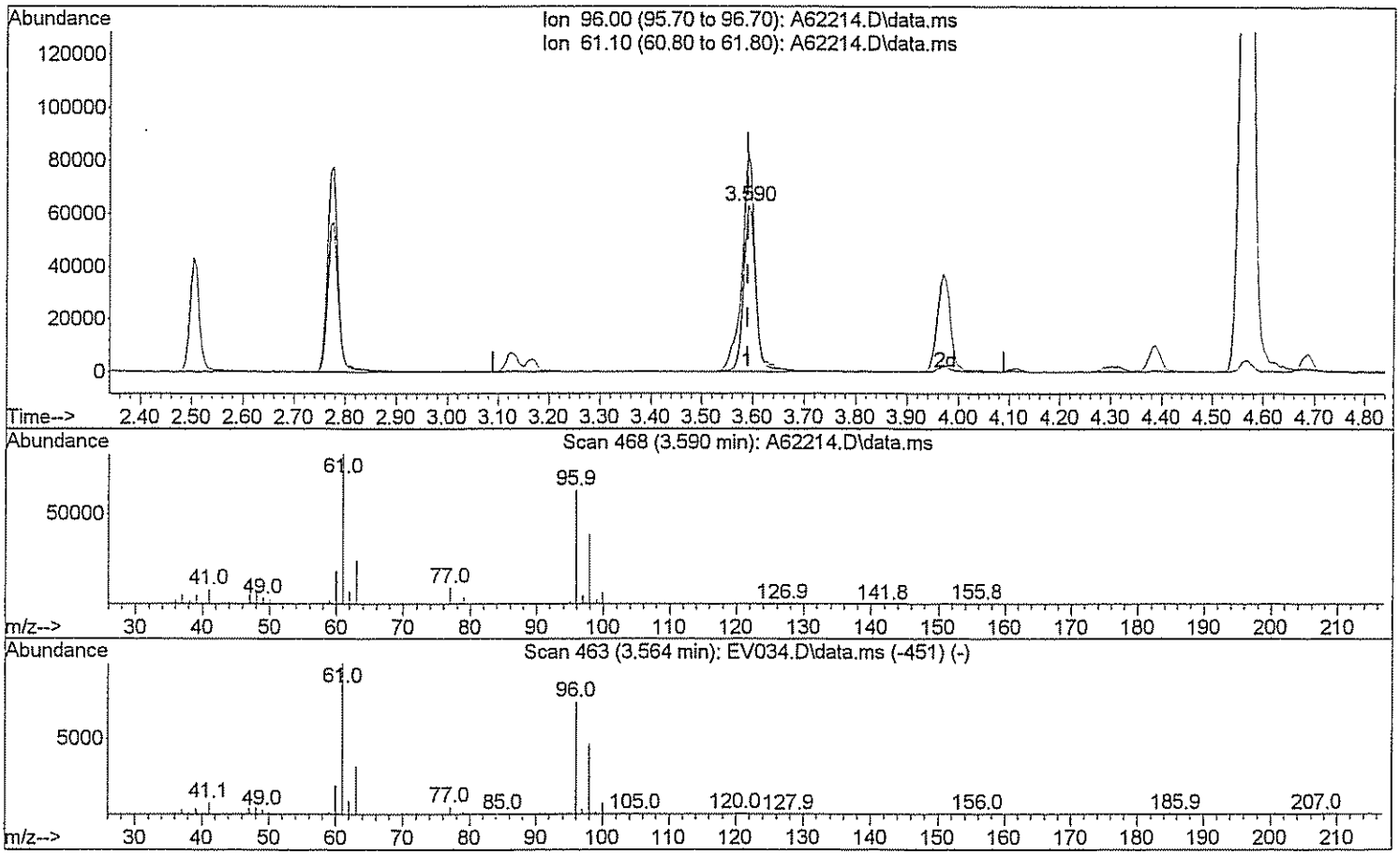
response 101626

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	146.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (0.000) 100.16 ug/L m AW 3/12/09

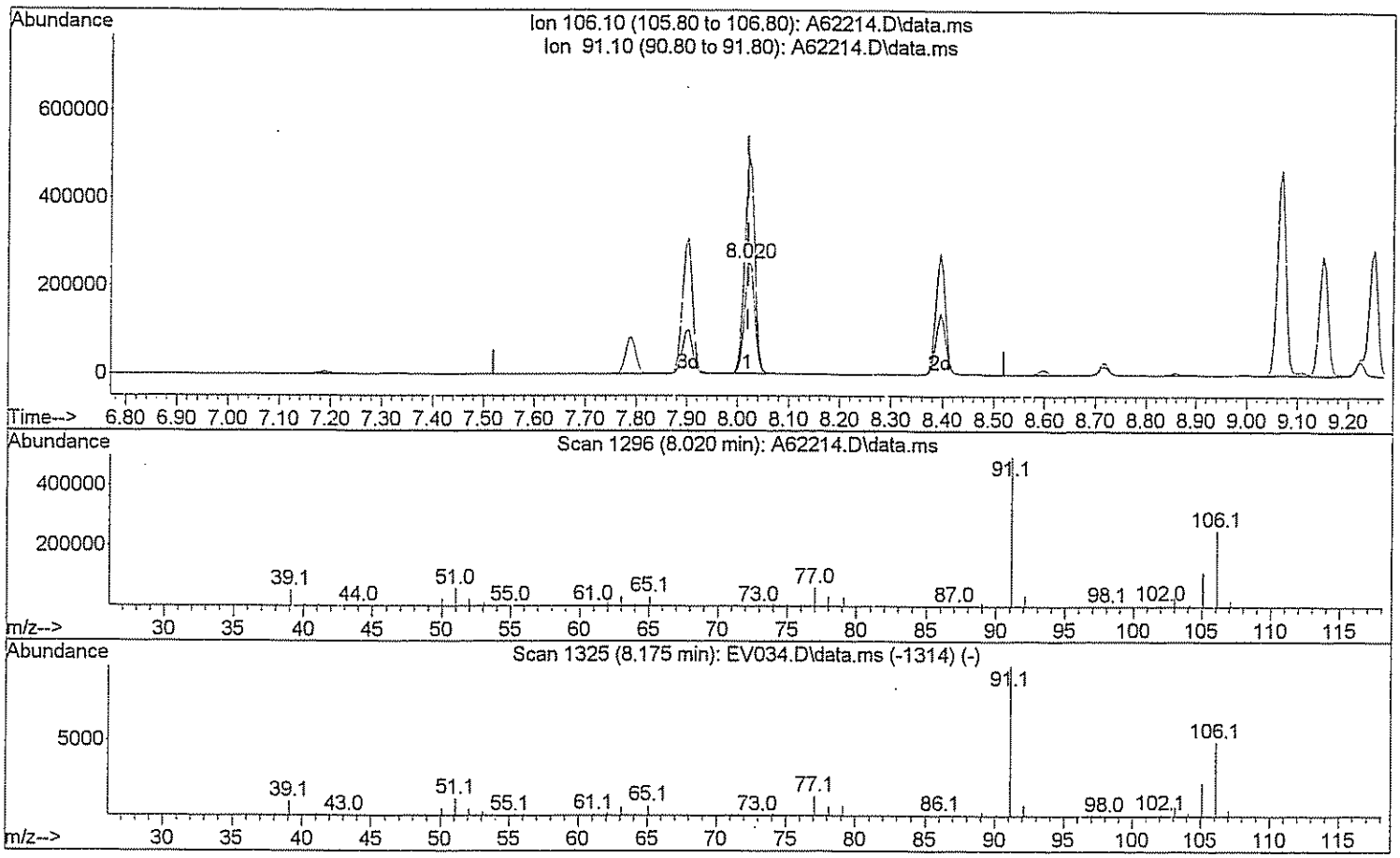
response 186209

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	79.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(71) Xylene (Total)

8.020min (0.000) 98.86 ug/L

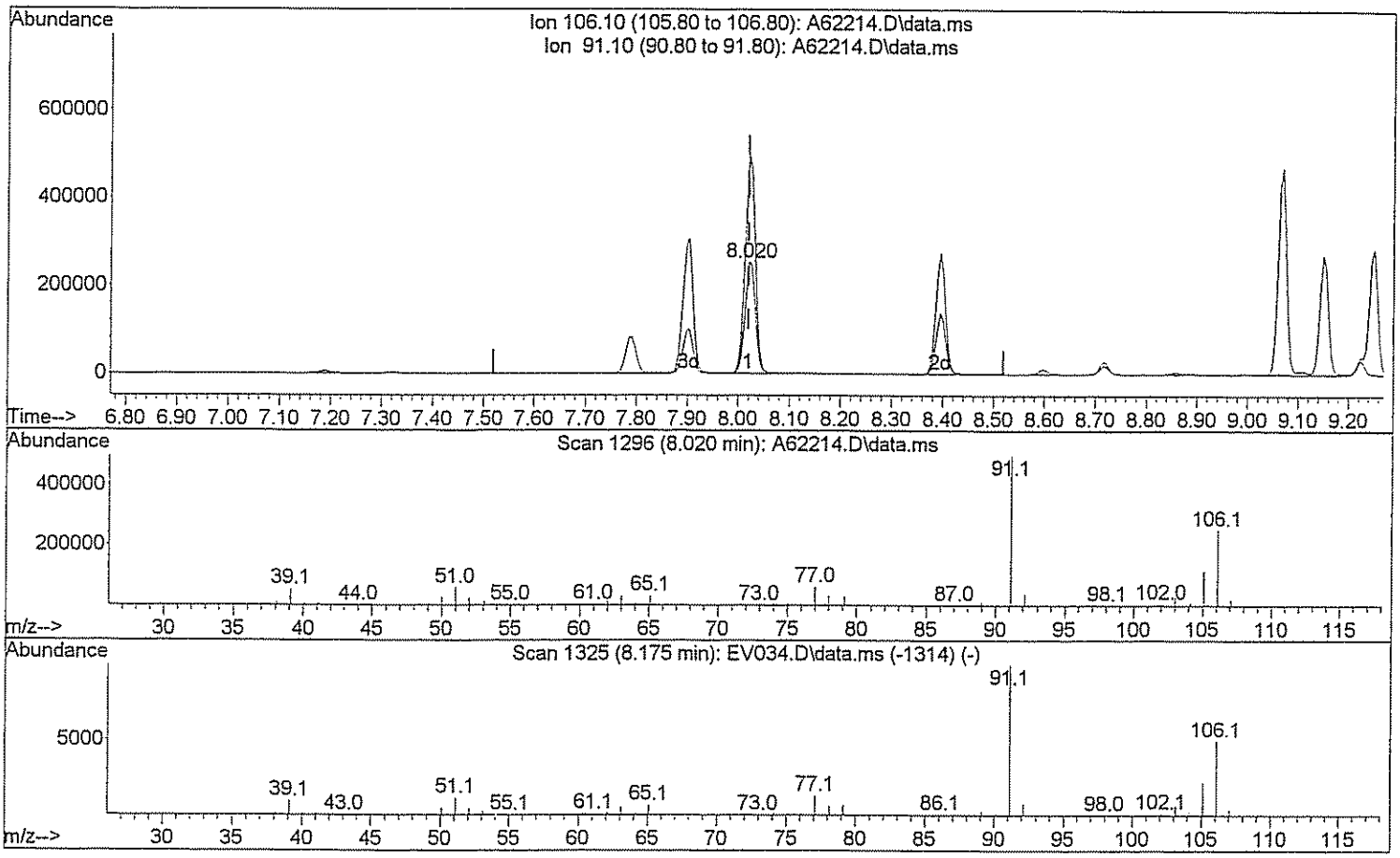
response 354164

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(71) Xylene (Total)

8.020min (0.000) 150.14 ug/L m DW 3/12/09

response 537873

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.52#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.569	96	415756	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	337372	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.785	117	329990	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	112733	50.81	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.62%				
53) Toluene-d8	6.148	98	383573	68.15	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 136.30%#				
75) 4-Bromofluorobenzene	8.881	95	162049	49.10	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.20%				
91) 1,2-Dichlorobenzene-d4	10.090	152	175535m	48.93	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 97.86%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	98397	136.92	ug/L		99
3) Chloromethane	1.354	50	168963	192.25	ug/L		95
4) Vinyl chloride	1.424	62	186395	134.25	ug/L		98
5) Bromomethane	1.654	94	66771	147.21	ug/L		96
6) Chloroethane	1.723	64	118748	122.21	ug/L		96
7) Trichlorofluoromethane	1.868	101	245893	136.15	ug/L		98
8) Ethyl Ether	2.071	59	158910	128.57	ug/L		95
9) Freon 113	2.205	101	154492	142.71	ug/L		87
10) Acrolein	2.216	56	159736	630.55	ug/L	#	74
11) Tert-Butyl alcohol	2.686	59	256748	2627.83	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	157280	135.23	ug/L		87
13) Iodomethane	2.360	142	213620	142.27	ug/L		97
14) Acetonitrile	2.504	40	1109944	1511.34	ug/L	#	1
15) Methylene chloride	2.617	84	187413	123.85	ug/L		100
16) Trans-1,2-dichloroethene	2.777	96	180726	130.56	ug/L		87
17) Isopropyl ether	3.109	45	703030	127.13	ug/L		100
18) 1,1-Dichloroethane	3.130	63	334041	128.30	ug/L		99
19) Acetone	2.317	43	112444	239.65	ug/L		94
20) Methyl Acetate	4.265	43	131159	104.35	ug/L	#	100
21) MTBE	2.761	73	521000	129.82	ug/L		100
22) Carbon disulfide	2.381	76	508164	130.07	ug/L		100
24) Acrylonitrile	2.852	53	278307	622.69	ug/L		99
25) Chloroprene	3.168	53	309351	137.67	ug/L		92
26) n-Heptane	4.446	71	135580m	105.57	ug/L		
27) 2,2-Dichloropropane	3.569	77	269285	122.40	ug/L	#	79
28) Cis-1,2-dichloroethene	3.596	96	206197	119.84	ug/L		96

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.596	96	391183m	248.16 ug/L	
30) Propionitrile	3.746	54	249360	1128.49 ug/L	100
31) Bromochloromethane	3.799	128	99463	114.28 ug/L	94
32) Tetrahydrofuran	3.799	72	46868	111.91 ug/L #	22
33) Chloroform	3.853	83	347573	120.52 ug/L	99
34) Cyclohexane	3.949	56	309662	116.28 ug/L	92
35) 1,1,1-Trichloroethane	3.970	97	273760	110.05 ug/L	98
36) Carbon tetrachloride	4.077	117	242295	111.65 ug/L	99
37) Methylcyclohexane	5.003	83	301589	110.98 ug/L	93
38) Isobutyl Alcohol	4.446	43	257322	2192.83 ug/L	88
41) 2-Butanone	3.623	43	223008	237.34 ug/L	97
42) 1,1-Dichloropropene	4.115	75	237178	108.03 ug/L	98
43) Vinyl Acetate	3.152	43	286529	142.18 ug/L	100
44) Benzene	4.297	78	731696	104.03 ug/L	100
45) 1,2-Dichloroethane	4.388	62	242233m	106.17 ug/L	
46) Trichloroethene	4.896	95	181261	101.27 ug/L	91
47) 1,2-Dichloropropane	5.169	63	196751	100.17 ug/L	95
48) Methyl methacrylate	5.270	69	132717	99.28 ug/L	97
49) Dibromomethane	5.286	93	121747	102.68 ug/L	97
50) Bromodichloromethane	5.436	83	252862	101.01 ug/L	100
51) 2-Chloroethylvinyl ether	5.784	63	534231	420.62 ug/L	98
52) Cis-1,3-dichloropropene	5.923	75	312652	101.46 ug/L	99
54) Toluene	6.223	92	464184	135.22 ug/L	96
55) Trans-1,3-dichloropropene	6.576	75	277112	132.56 ug/L	97
56) Ethyl methacrylate	6.629	69	243555	130.71 ug/L	94
57) 1,1,2-Trichloroethane	6.779	83	144844	132.67 ug/L	97
59) 4-Methyl-2-pentanone	6.099	43	441634	205.70 ug/L	97
60) 2-Hexanone	7.068	43	298027	193.58 ug/L	98
61) Tetrachloroethene	6.800	166	194634	104.83 ug/L	95
62) 1,3-Dichloropropane	6.977	76	280682	99.79 ug/L	93
63) Dibromochloromethane	7.185	129	207903	103.87 ug/L	100
64) 1,2-Dibromoethane	7.319	107	176918	98.51 ug/L	97
65) 1-Chlorohexane	7.790	91	263708	100.84 ug/L	92
66) Chlorobenzene	7.811	112	588501	103.04 ug/L	88
67) 1,1,1,2-Tetrachloroethane	7.913	131	227952	104.60 ug/L	98
68) Ethylbenzene	7.902	91	968275	101.85 ug/L	98
69) m,p-Xylene	8.025	106	805262	205.61 ug/L	90
70) o-Xylene	8.395	106	411204	102.56 ug/L	91
71) Xylene (Total)	8.025	106	1215901m	306.63 ug/L	
72) Styrene	8.427	104	675495	100.86 ug/L	95
73) Bromoform	8.598	173	144392	103.58 ug/L	100
74) Isopropylbenzene	8.715	105	905859	103.86 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration

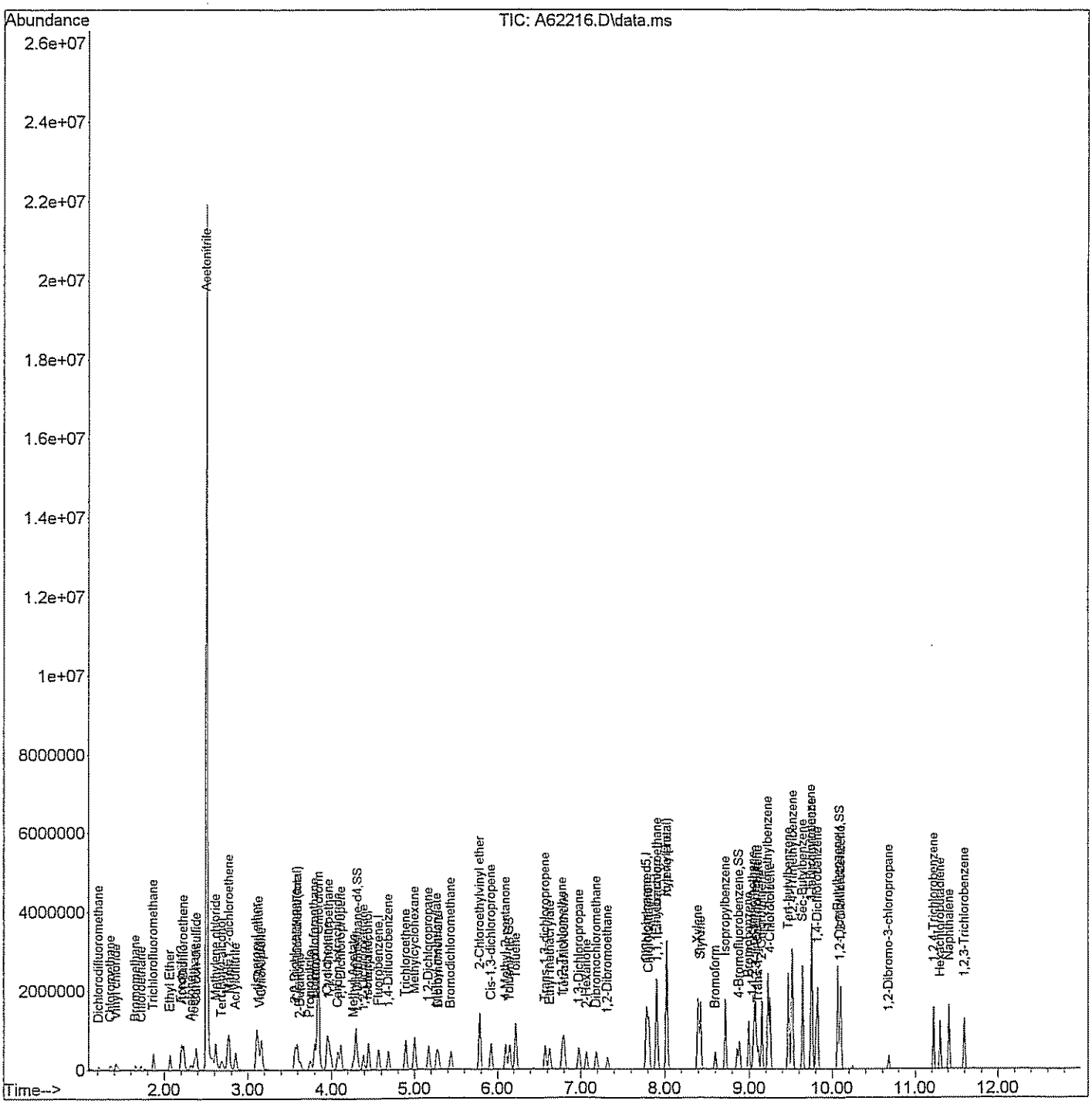
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	242975	98.16 ug/L	100
77) 1,1,2,2-Tetrachloroethane	9.047	83	257769	100.04 ug/L	100
78) 1,2,3-Trichloropropane	9.085	110	74956	99.96 ug/L	98
79) n-Propylbenzene	9.069	91	1194175	98.61 ug/L	98
80) Trans-1,4-dichloro-2-b...	9.106	53	78805	102.85 ug/L #	23
81) 2-Chlorotoluene	9.154	126	256406	97.26 ug/L	88
82) 4-Chlorotoluene	9.250	126	266863	97.60 ug/L	93
83) 1,3,5-Trimethylbenzene	9.224	105	929473	100.78 ug/L	95
84) Tert-butylbenzene	9.470	119	833782	102.26 ug/L	97
86) 1,2,4-Trimethylbenzene	9.523	105	956129	100.29 ug/L	94
87) Sec-Butylbenzene	9.641	105	1261883	99.94 ug/L	99
88) 1,3-Dichlorobenzene	9.748	146	537347	99.74 ug/L	99
89) 4-Isopropyltoluene	9.759	119	1120260	102.00 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	542741	98.75 ug/L	98
92) 1,2-Dichlorobenzene	10.101	146	516944	99.26 ug/L	99
93) n-Butylbenzene	10.064	91	1022373	100.42 ug/L	95
94) 1,2-Dibromo-3-chloropr...	10.679	75	51163	97.81 ug/L	81
95) 1,2,4-Trichlorobenzene	11.225	180	335916	97.86 ug/L	100
96) Hexachlorobutadiene	11.305	225	145565	106.24 ug/L	100
97) Naphthalene	11.412	128	933278	98.67 ug/L	100
98) 1,2,3-Trichlorobenzene	11.599	180	299645	96.84 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

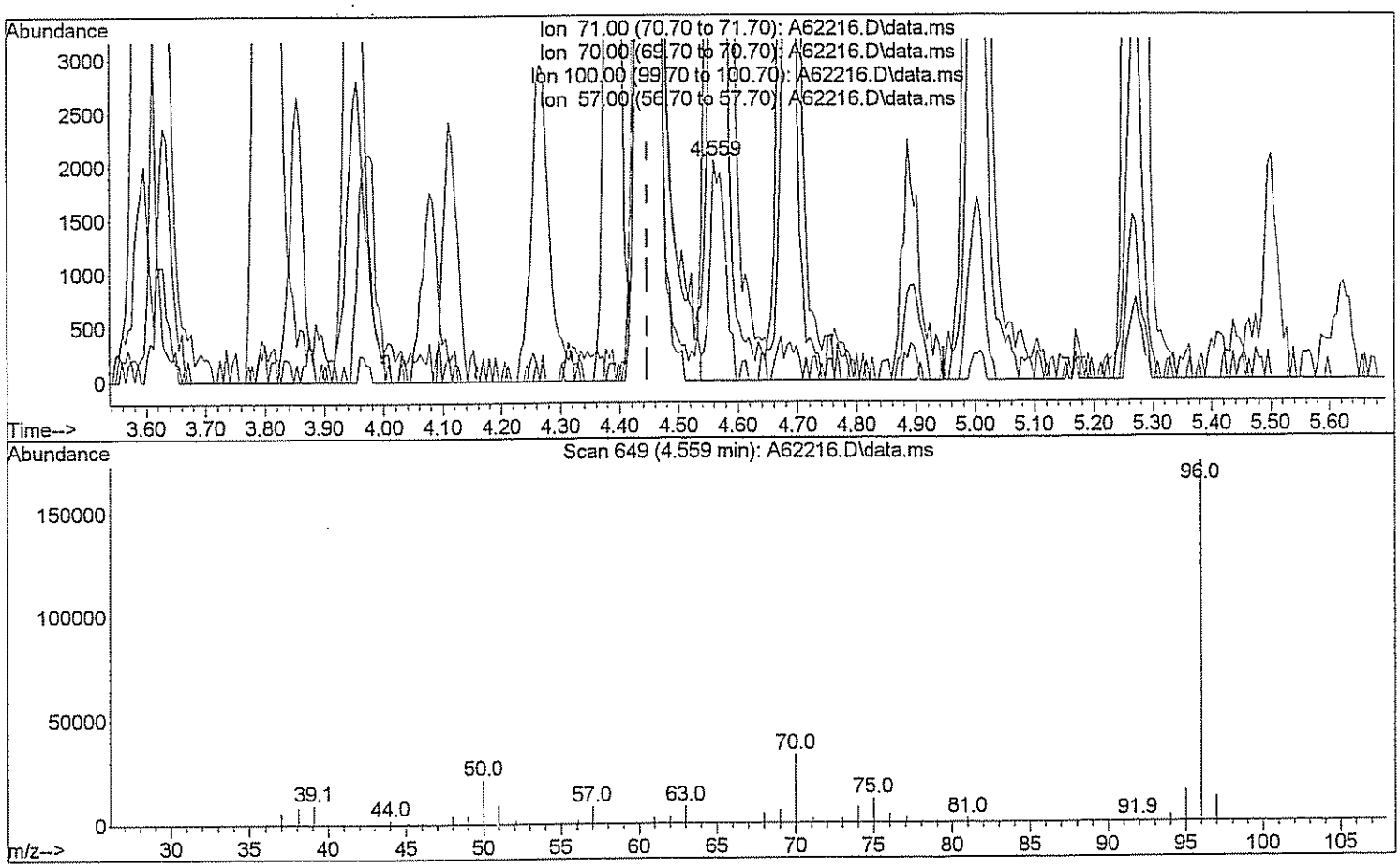
Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(26) n-Heptane (T)

4.559min (+0.112) 2.83 ug/L

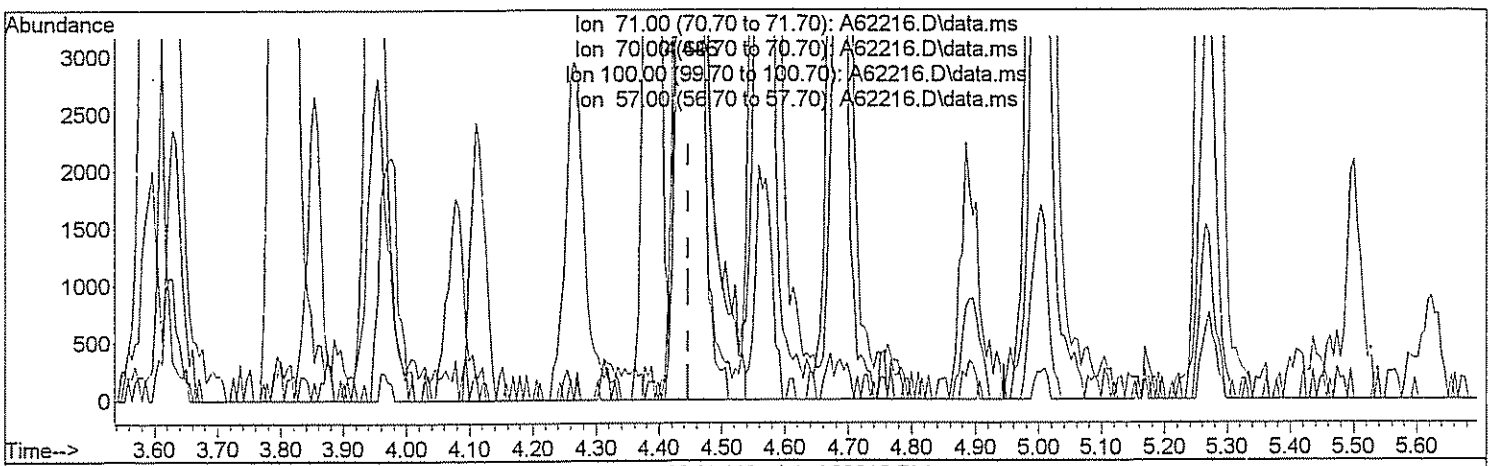
response 3635

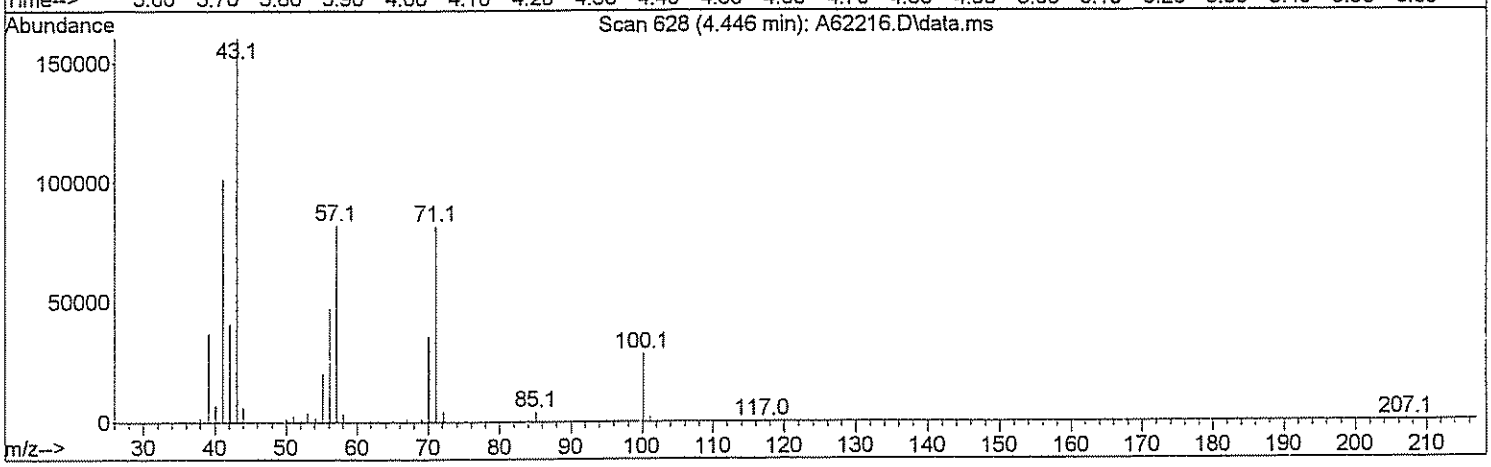
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2001.02#
100.00	60.00	0.00#
57.00	34.00	450.07#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration





TIC: A62216.D\data.ms

(26) n-Heptane (T)

4.446min (-0.000) 105.57 ug/L m Dm 3/12/09

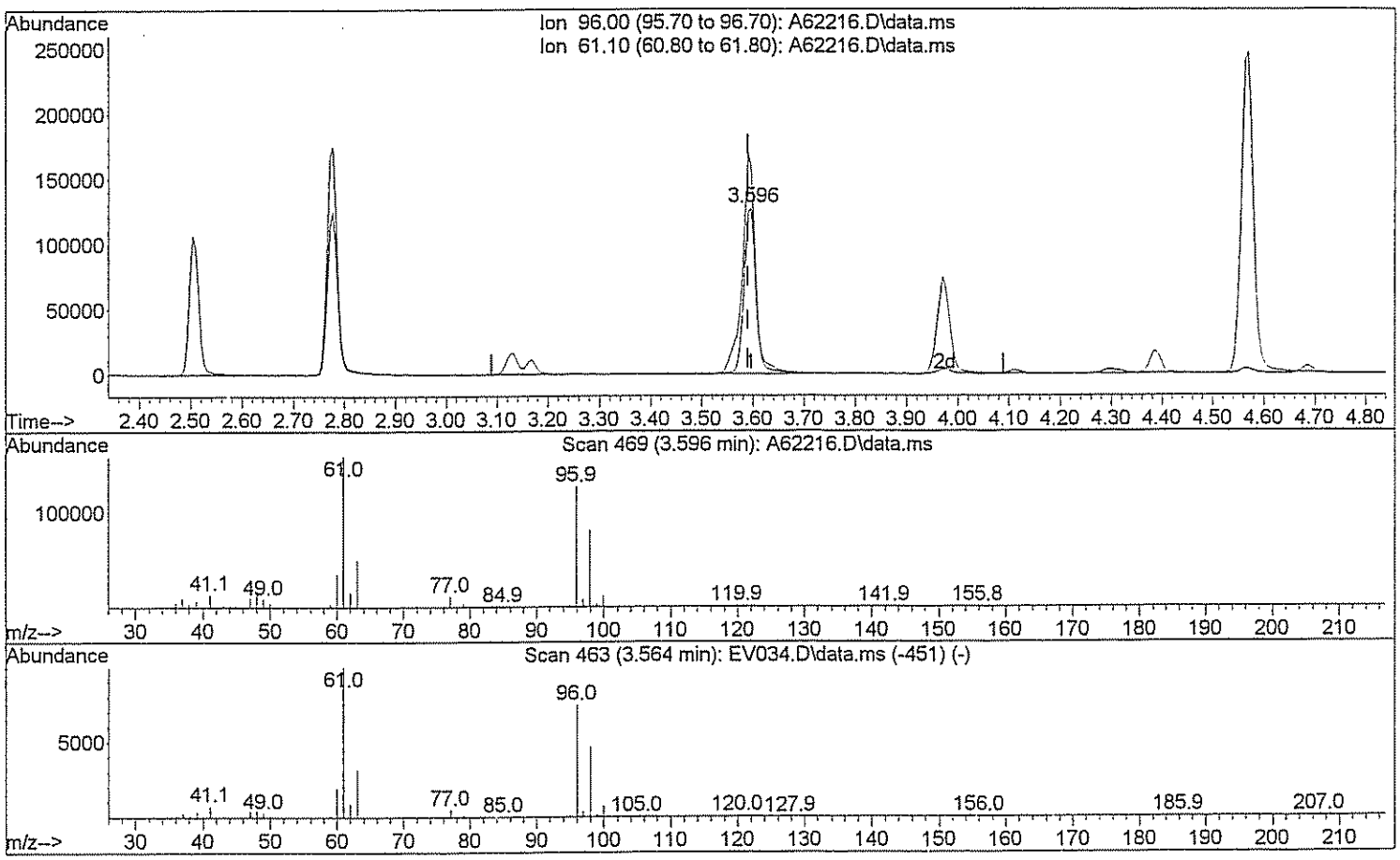
response 135580

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	53.65#
100.00	60.00	0.00#
57.00	34.00	12.07#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(29) 1,2-dichloroethene(total)

3.596min (+0.005) 130.81 ug/L

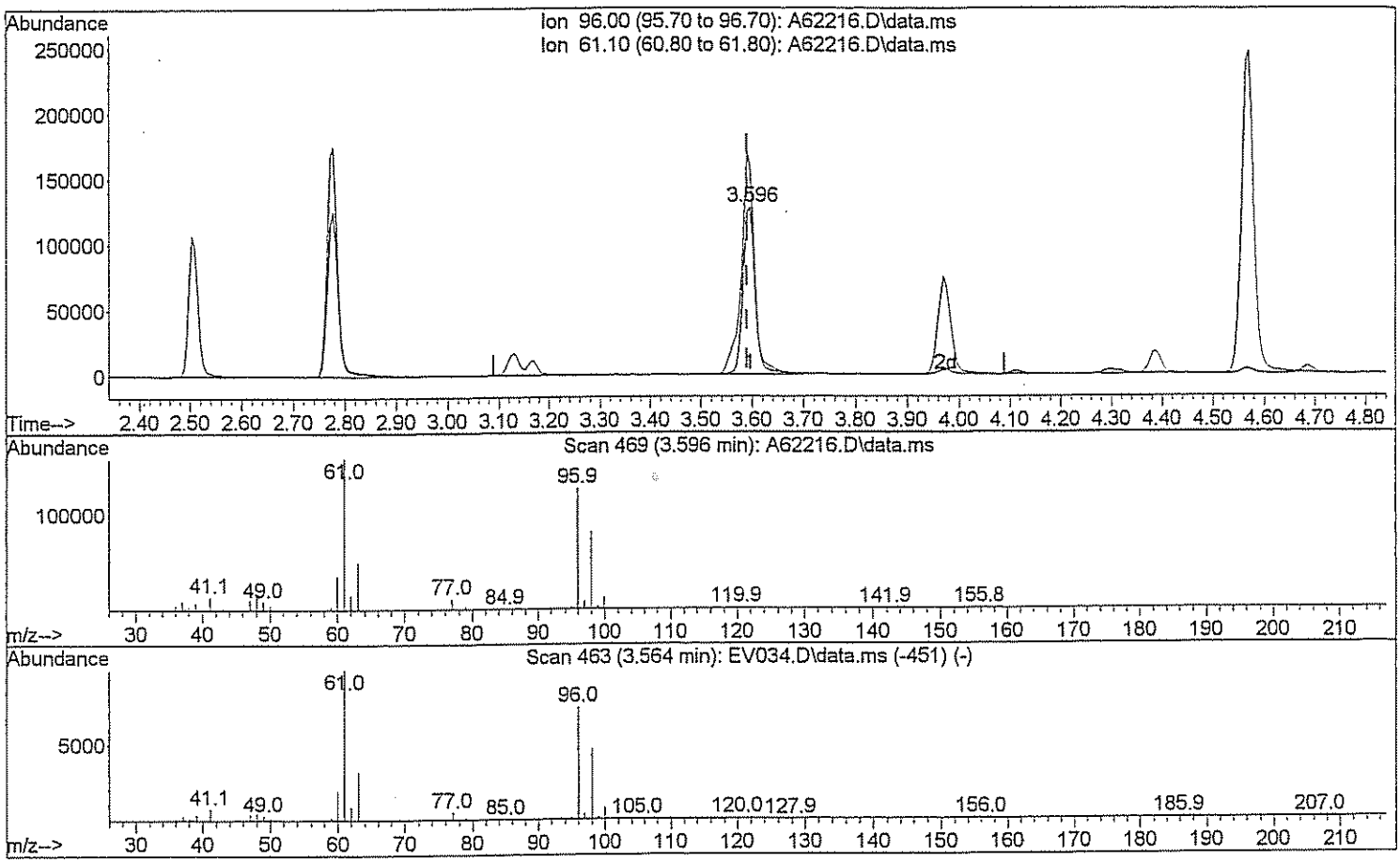
response 206197

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	148.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(29) 1,2-dichloroethene(total)

3.596min (+0.005) 248.16 ug/L m LM 3/12/09

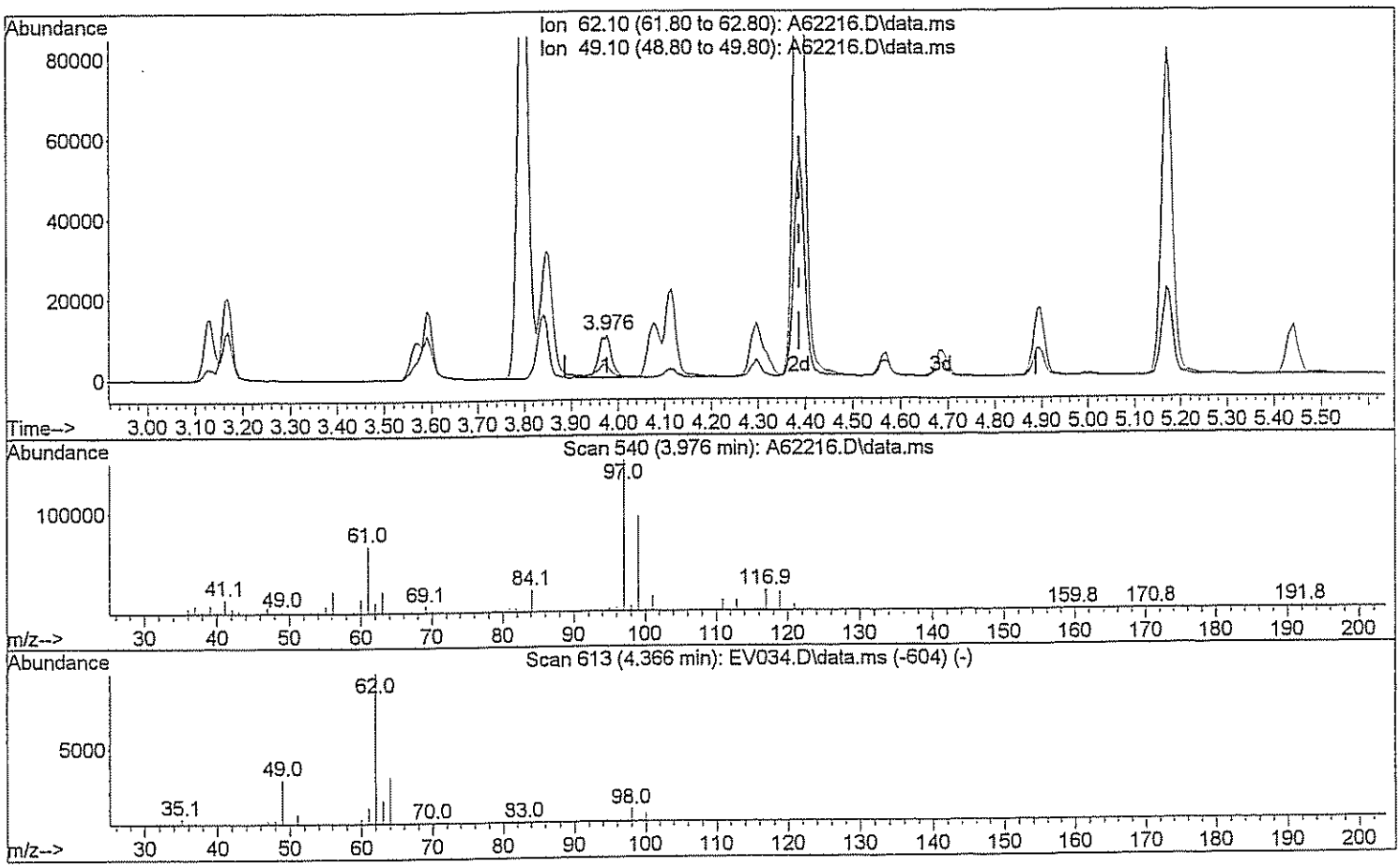
response 391183

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	78.09#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(45) 1,2-Dichloroethane

3.976min (-0.412) 8.79 ug/L

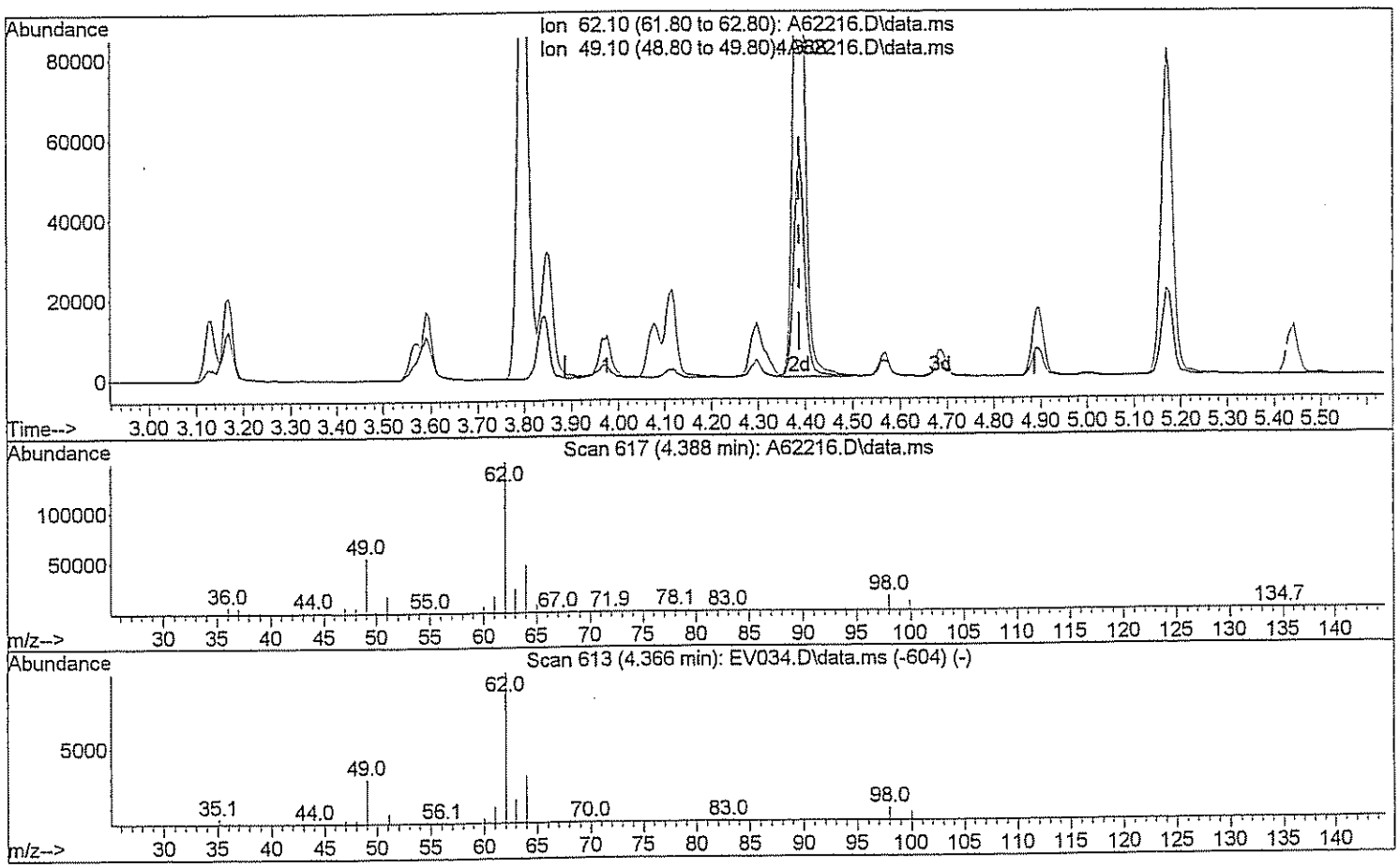
response 20048

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	33.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(45) 1,2-Dichloroethane

4.388min (-0.000) 106.17 ug/L m DW 3/12/09

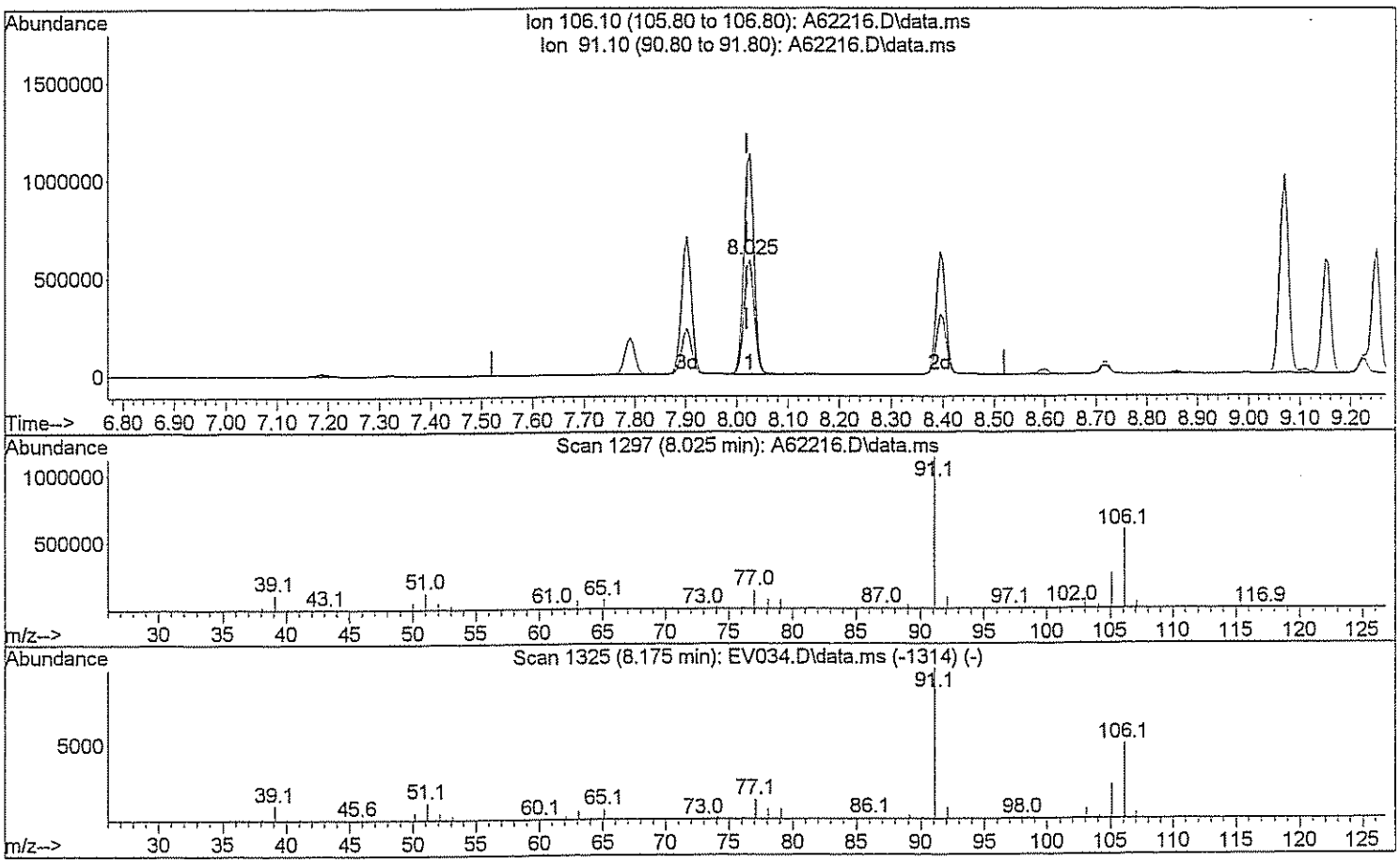
response 242233

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(71) Xylene (Total)

8.025min (+0.005) 203.08 ug/L

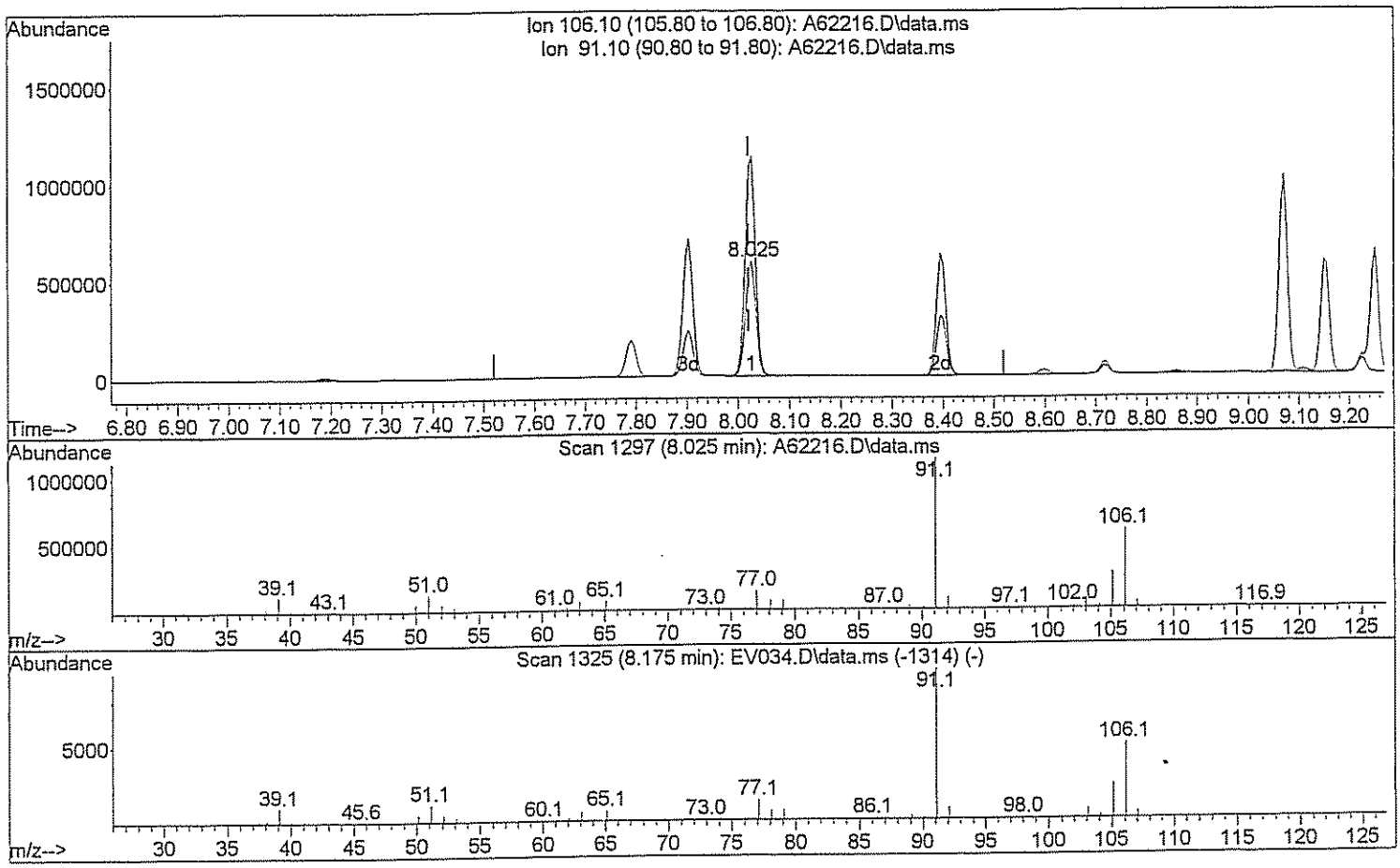
response 805262

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(71) Xylene (Total)

8.025min (+0.005) 306.63 ug/L m DM 3/12/09

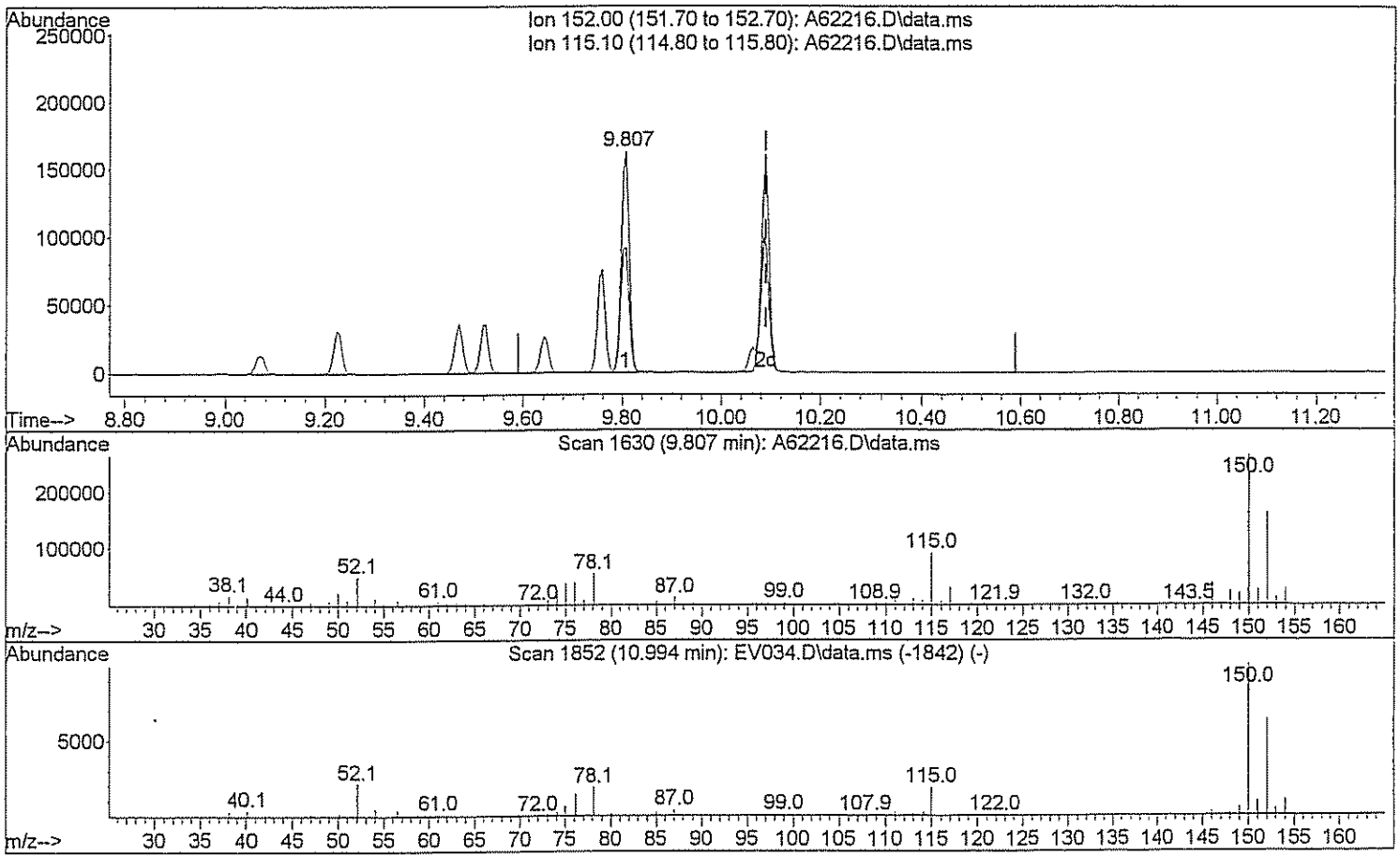
response 1215901

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	127.80#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.284) 51.19 ug/L

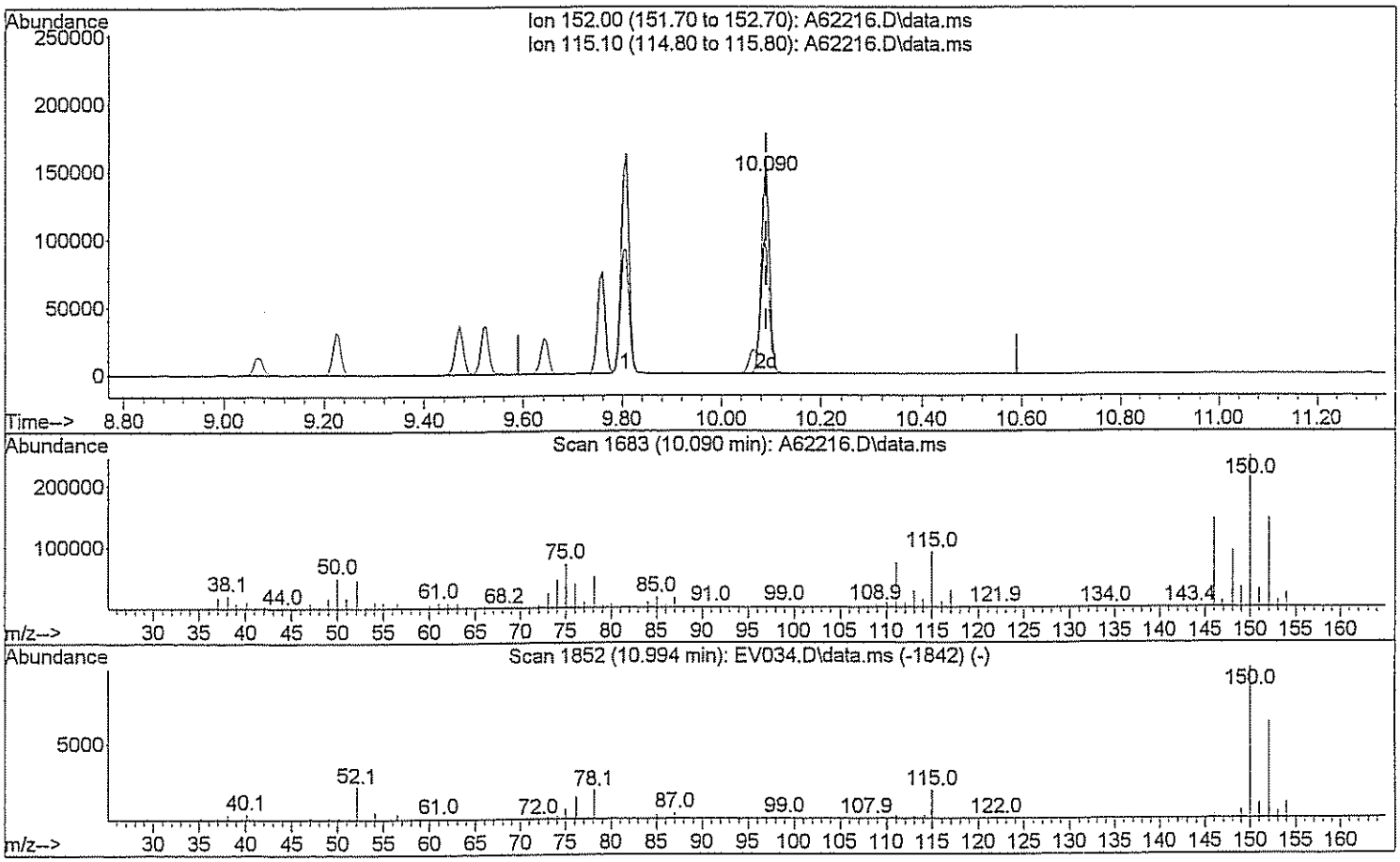
response 183623

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

10.090min (0.000) 48.93 ug/L m SM 3/12/09

response 175535

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	62.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	301617	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.682	114	243072	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.785	117	282592	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	89417	55.11	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 110.22%			
53) Toluene-d8	6.148	98	305795	63.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 127.64%#			
75) 4-Bromofluorobenzene	8.887	95	145204	51.84	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 103.68%			
91) 1,2-Dichlorobenzene-d4	10.090	152	162681m	53.53	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.205	85	148889	241.08	ug/L	100
3) Chloromethane	1.349	50	345876	371.24	ug/L	95
4) Vinyl chloride	1.413	62	283953	240.69	ug/L	94
5) Bromomethane	1.633	94	125968	309.71	ug/L	90
6) Chloroethane	1.697	64	196387	250.75	ug/L	97
7) Trichlorofluoromethane	1.841	101	601503	388.81	ug/L	100
8) Ethyl Ether	2.061	59	277581	270.88	ug/L	96
9) Freon 113	2.189	101	215811	226.44	ug/L	93
10) Acrolein	2.210	56	352264	1695.43	ug/L #	75
11) Tert-Butyl alcohol	2.713	59	902659	11007.26	ug/L #	47
12) 1,1-Dichloroethene	2.216	96	251488	253.42	ug/L	90
13) Iodomethane	2.344	142	219213	166.13	ug/L	97
14) Acetonitrile	2.494	40	1585524	2369.96	ug/L #	1
15) Methylene chloride	2.606	84	284381	231.45	ug/L	100
16) Trans-1,2-dichloroethene	2.767	96	256339	221.43	ug/L	90
17) Isopropyl ether	3.109	45	1079678	236.98	ug/L	97
18) 1,1-Dichloroethane	3.120	63	484117	224.53	ug/L	99
19) Acetone	2.323	43	282241	754.40	ug/L	96
20) Methyl Acetate	4.281	43	462717	496.64	ug/L #	100
21) MTBE	2.756	73	782608	233.92	ug/L	100
22) Carbon disulfide	2.366	76	758520	232.64	ug/L	100
24) Acrylonitrile	2.852	53	585590	1608.66	ug/L	99
25) Chloroprene	3.157	53	401390	207.20	ug/L	89
26) n-Heptane	4.441	71	178169m	186.05	ug/L	
27) 2,2-Dichloropropane	3.559	77	373239	210.30	ug/L #	68
28) Cis-1,2-dichloroethene	3.585	96	291314	212.32	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.585	96	569196m	444.24	ug/L		
30) Propionitrile	3.756	54	606277	3553.72	ug/L		99
31) Bromochloromethane	3.794	128	153919	227.52	ug/L		92
32) Tetrahydrofuran	3.799	72	99174	308.07	ug/L	#	1
33) Chloroform	3.853	83	554580	240.41	ug/L		97
34) Cyclohexane	3.944	56	433904	207.69	ug/L		92
35) 1,1,1-Trichloroethane	3.965	97	409468	216.04	ug/L		98
36) Carbon tetrachloride	4.072	117	326004	195.68	ug/L		99
37) Methylcyclohexane	4.998	83	395598	190.22	ug/L		93
38) Isobutyl Alcohol	4.441	43	338177	3789.72	ug/L		90
41) 2-Butanone	3.628	43	455142	614.91	ug/L		96
42) 1,1-Dichloropropene	4.104	75	338797	205.92	ug/L		98
43) Vinyl Acetate	3.147	43	388046	220.71	ug/L		96
44) Benzene	4.291	78	1133596	219.28	ug/L		100
45) 1,2-Dichloroethane	4.382	62	367561	216.91	ug/L	#	85
46) Trichloroethene	4.891	95	274214	211.30	ug/L		92
47) 1,2-Dichloropropane	5.169	63	304880	215.26	ug/L		95
48) Methyl methacrylate	5.270	69	232777	242.56	ug/L		95
49) Dibromomethane	5.286	93	192552	222.42	ug/L		97
50) Bromodichloromethane	5.436	83	389025	214.61	ug/L		100
51) 2-Chloroethylvinyl ether	5.784	63	879262	936.70	ug/L		98
52) Cis-1,3-dichloropropene	5.923	75	484787	216.78	ug/L		100
54) Toluene	6.223	92	780815	268.43	ug/L		98
55) Trans-1,3-dichloropropene	6.576	75	462937	264.33	ug/L		99
56) Ethyl methacrylate	6.629	69	424850	316.46	ug/L		92
57) 1,1,2-Trichloroethane	6.779	83	249676	272.84	ug/L		94
59) 4-Methyl-2-pentanone	6.105	43	849634	455.61	ug/L		97
60) 2-Hexanone	7.068	43	561084	432.52	ug/L		99
61) Tetrachloroethene	6.800	166	313302	192.40	ug/L		97
62) 1,3-Dichloropropane	6.977	76	475351	197.55	ug/L		94
63) Dibromochloromethane	7.191	129	356573	204.08	ug/L		99
64) 1,2-Dibromoethane	7.319	107	310852	203.64	ug/L		98
65) 1-Chlorohexane	7.790	91	443202	197.07	ug/L		93
66) Chlorobenzene	7.812	112	1027078	206.85	ug/L		88
67) 1,1,1,2-Tetrachloroethane	7.913	131	409574	214.53	ug/L		97
68) Ethylbenzene	7.902	91	1756505	213.77	ug/L		99
69) m,p-Xylene	8.025	106	1497265	440.25	ug/L		92
70) o-Xylene	8.400	106	745507	214.39	ug/L		94
71) Xylene (Total)	8.025	106	2273541m	662.20	ug/L		
72) Styrene	8.427	104	1236243	214.63	ug/L		94
73) Bromoform	8.598	173	276649	227.67	ug/L		100
74) Isopropylbenzene	8.716	105	1677265	220.31	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration

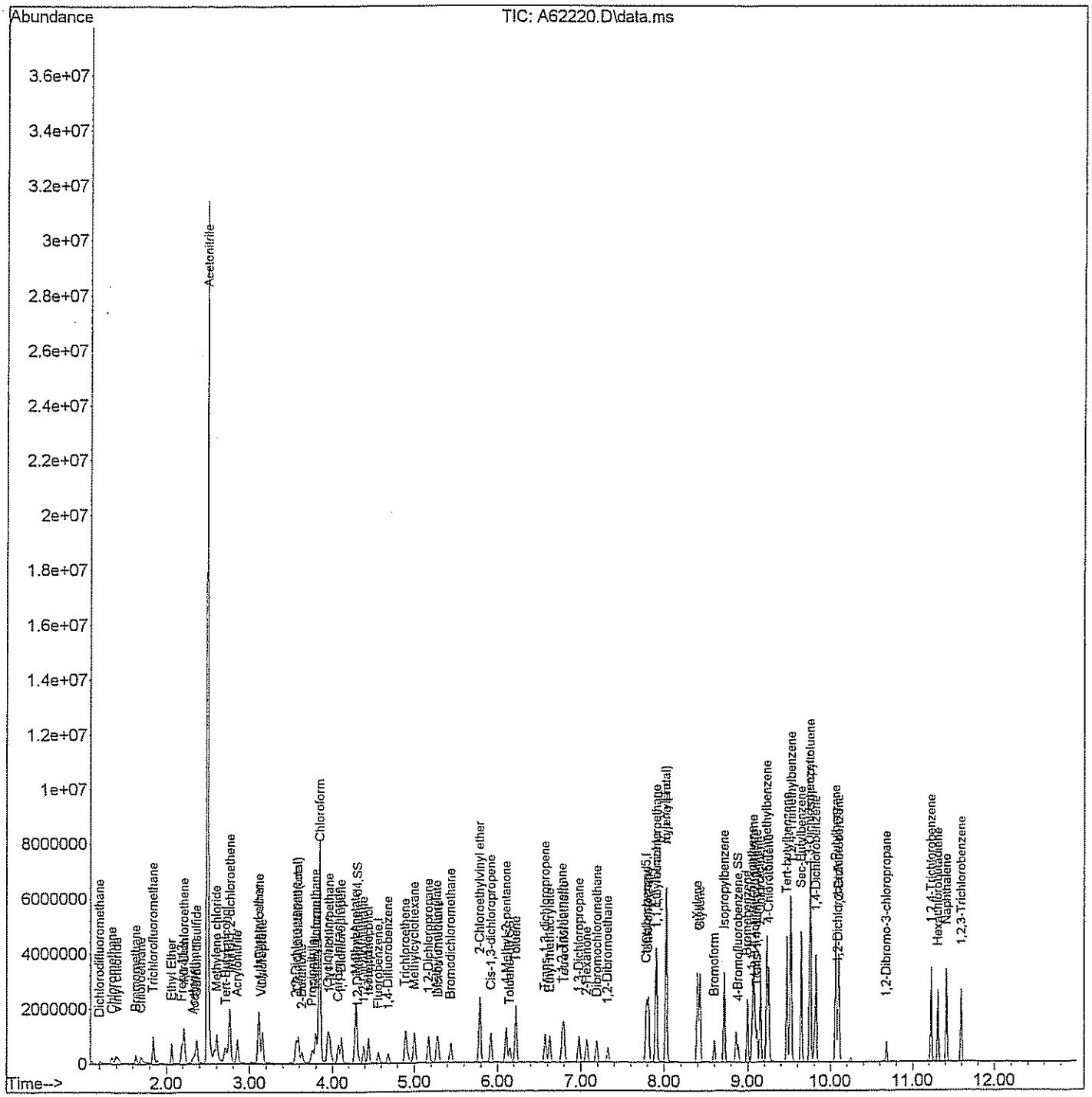
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) Bromobenzene	8.994	156	461938	219.95	ug/L		98
77) 1,1,2,2-Tetrachloroethane	9.053	83	487906	221.07	ug/L		96
78) 1,2,3-Trichloropropane	9.090	110	149582	232.98	ug/L		97
79) n-Propylbenzene	9.069	91	2232670	216.79	ug/L		99
80) Trans-1,4-dichloro-2-b...	9.111	53	162162	243.67	ug/L	#	1
81) 2-Chlorotoluene	9.154	126	473615	212.70	ug/L		91
82) 4-Chlorotoluene	9.251	126	489840	211.74	ug/L		95
83) 1,3,5-Trimethylbenzene	9.229	105	1797797	226.75	ug/L		96
84) Tert-butylbenzene	9.470	119	1619572	229.36	ug/L		97
86) 1,2,4-Trimethylbenzene	9.523	105	1888366	230.96	ug/L		94
87) Sec-Butylbenzene	9.641	105	2427225	224.55	ug/L		99
88) 1,3-Dichlorobenzene	9.748	146	1109997	240.90	ug/L		99
89) 4-Isopropyltoluene	9.759	119	2287318	240.78	ug/L		98
90) 1,4-Dichlorobenzene	9.823	146	1049043	224.29	ug/L		98
92) 1,2-Dichlorobenzene	10.101	146	998684	224.76	ug/L		100
93) n-Butylbenzene	10.064	91	1958135	224.12	ug/L		96
94) 1,2-Dibromo-3-chloropr...	10.679	75	108926	245.86	ug/L	#	78
95) 1,2,4-Trichlorobenzene	11.225	180	708457	243.62	ug/L		99
96) Hexachlorobutadiene	11.305	225	309724	255.98	ug/L		99
97) Naphthalene	11.412	128	1928687	239.70	ug/L		100
98) 1,2,3-Trichlorobenzene	11.599	180	620869	238.08	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

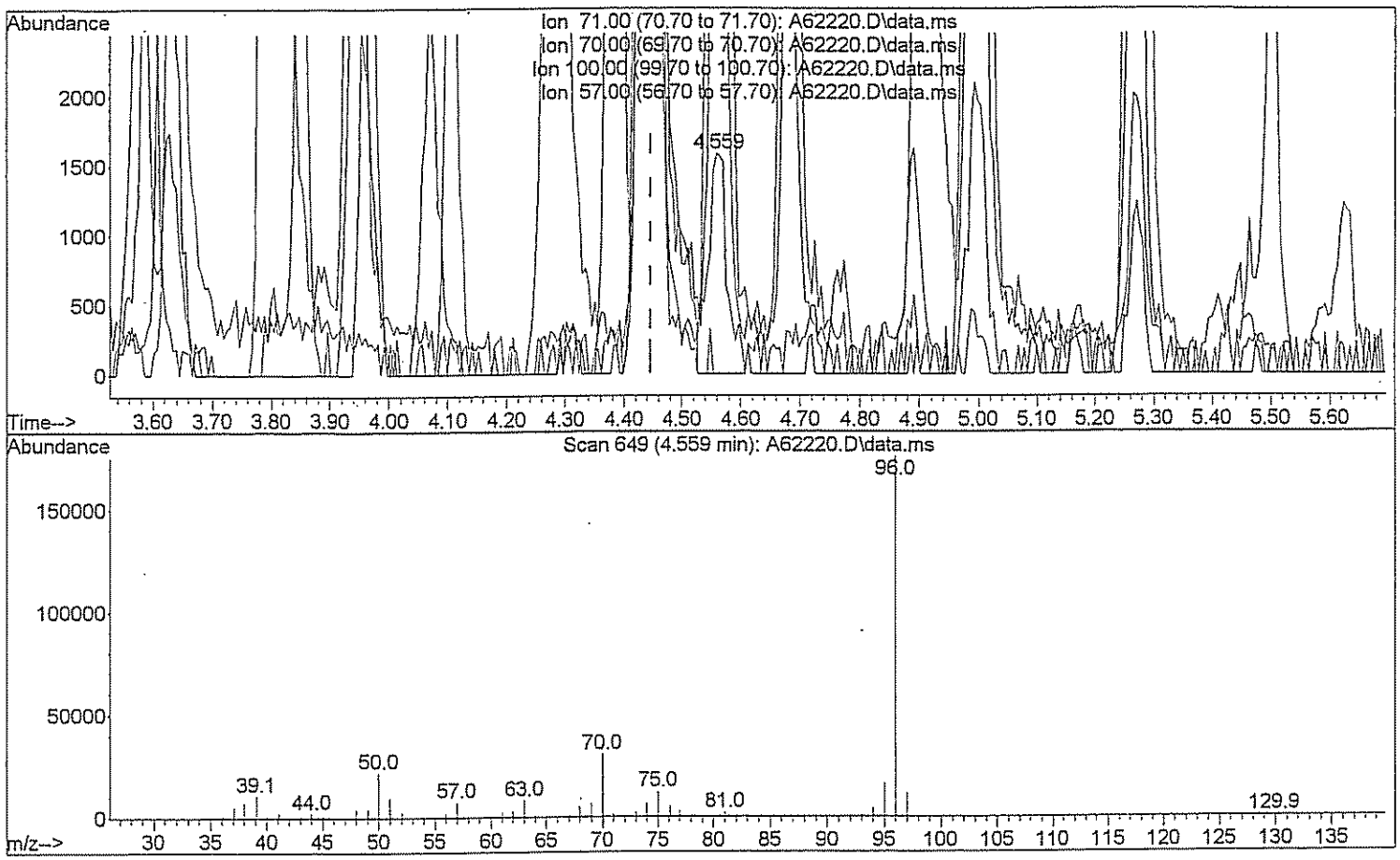
Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(26) n-Heptane (T)

4.559min (+0.112) 3.71 ug/L

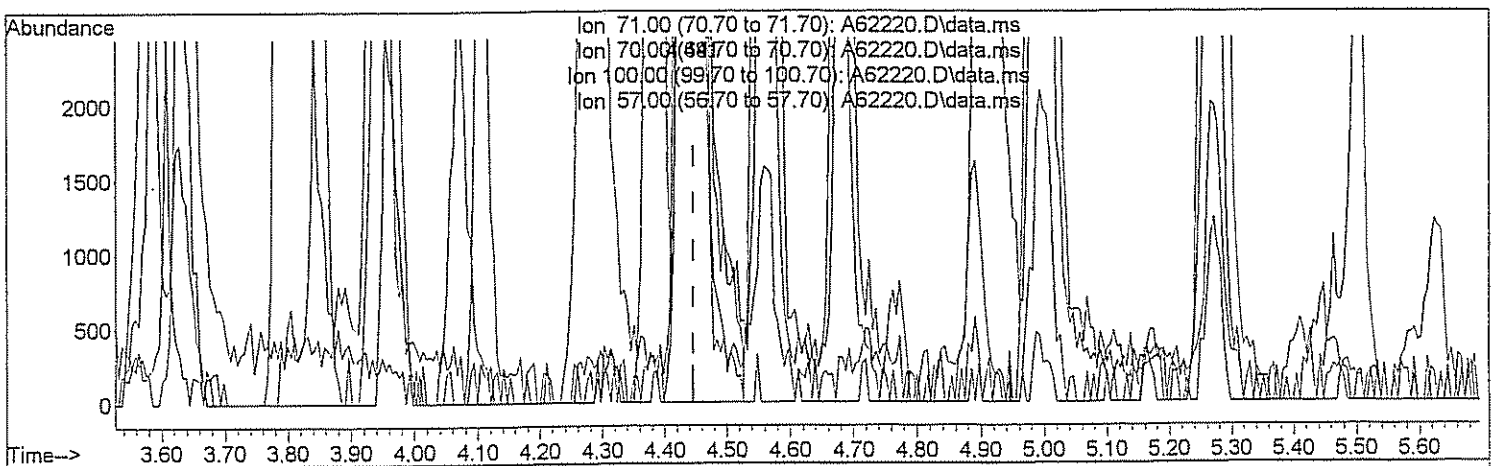
response 3552

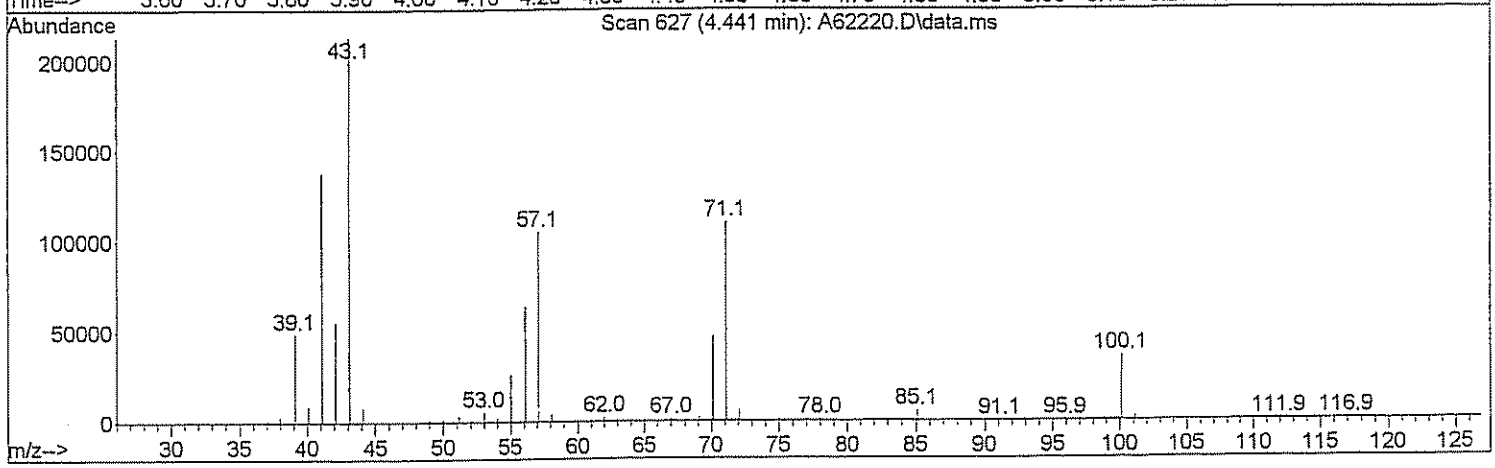
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1479.76#
100.00	60.00	0.00#
57.00	34.00	322.16#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration





TIC: A62220.D\data.ms

(26) n-Heptane (T)

4.441min (-0.005) 186.05 ug/L m

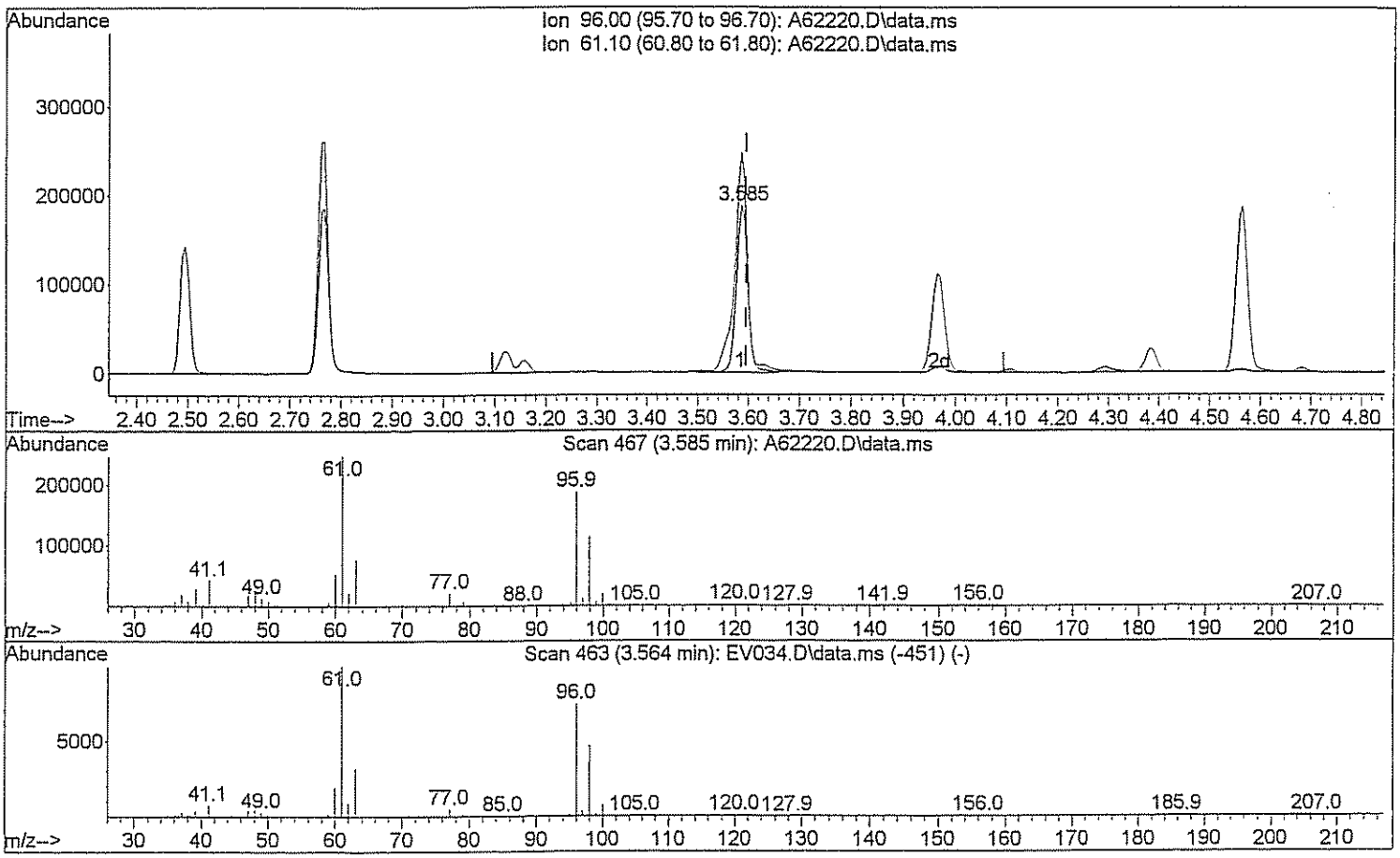
response 178169

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	29.50
100.00	60.00	0.00#
57.00	34.00	6.42#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(29) 1,2-dichloroethene(total)

3.585min (-0.011) 227.36 ug/L

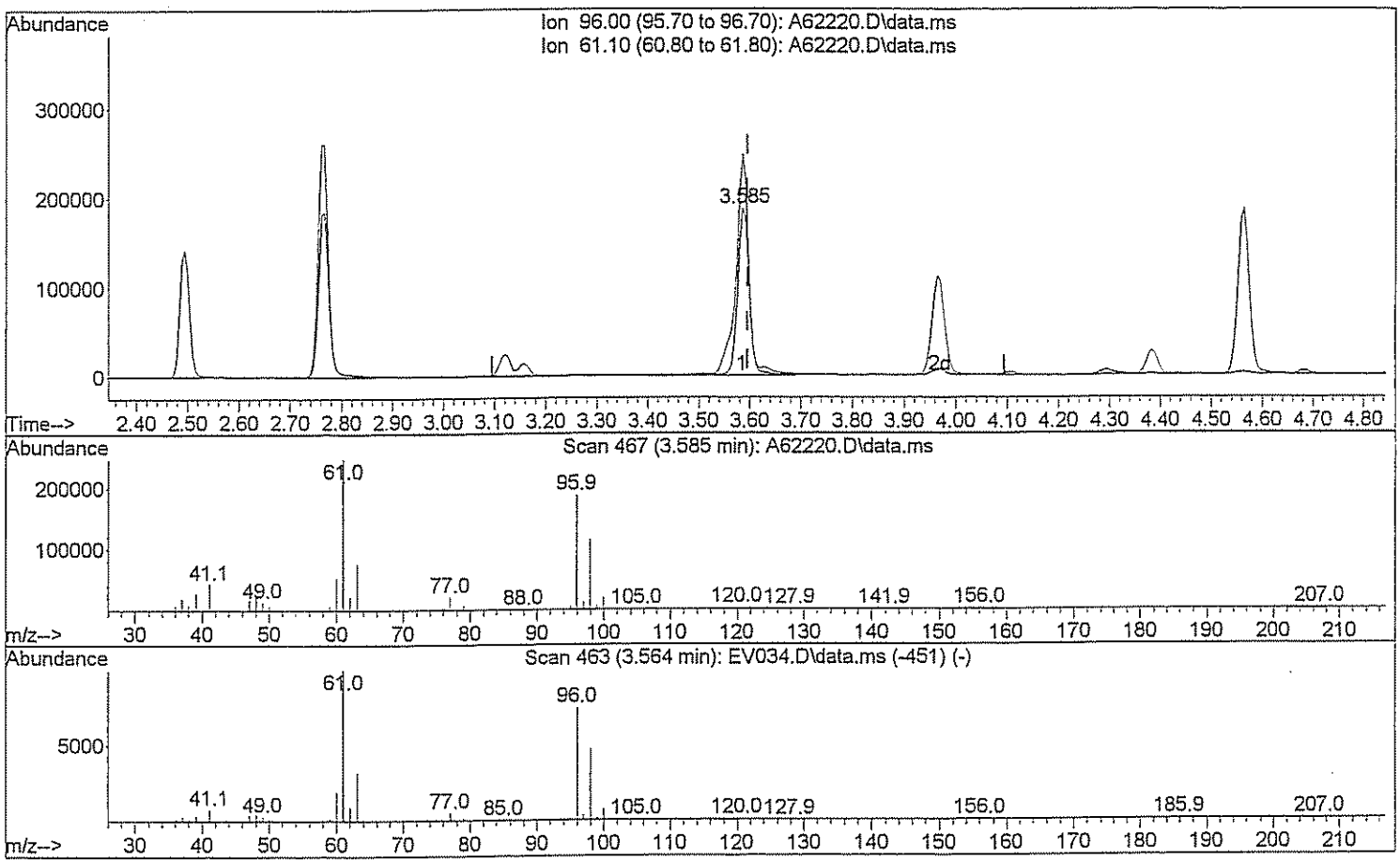
response 291314

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	146.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(29) 1,2-dichloroethene(total)

3.585min (-0.011) 444.24 ug/L m SW 3/12/09

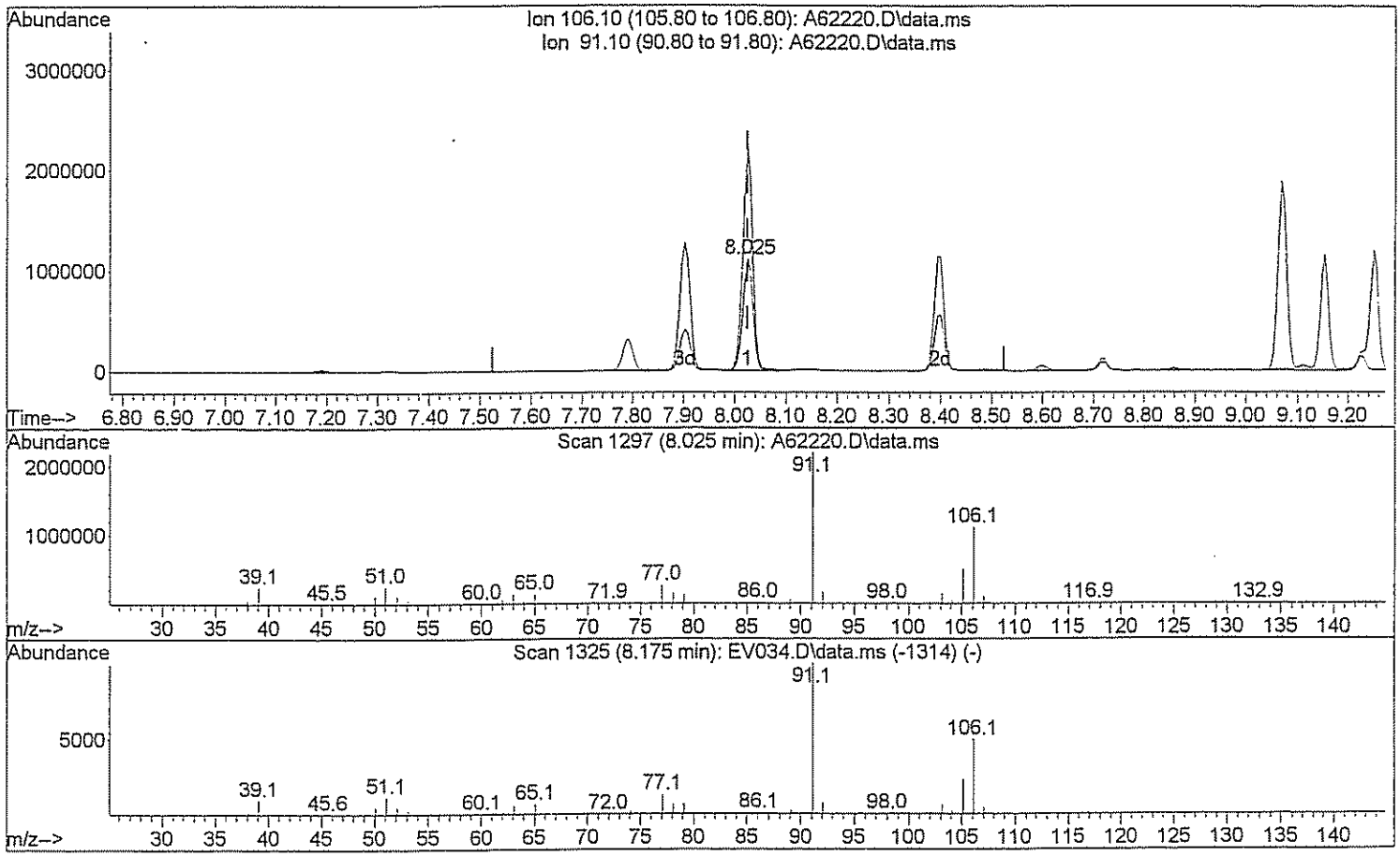
response 569196

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	74.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(71) Xylene (Total)

8.025min (+0.000) 436.10 ug/L

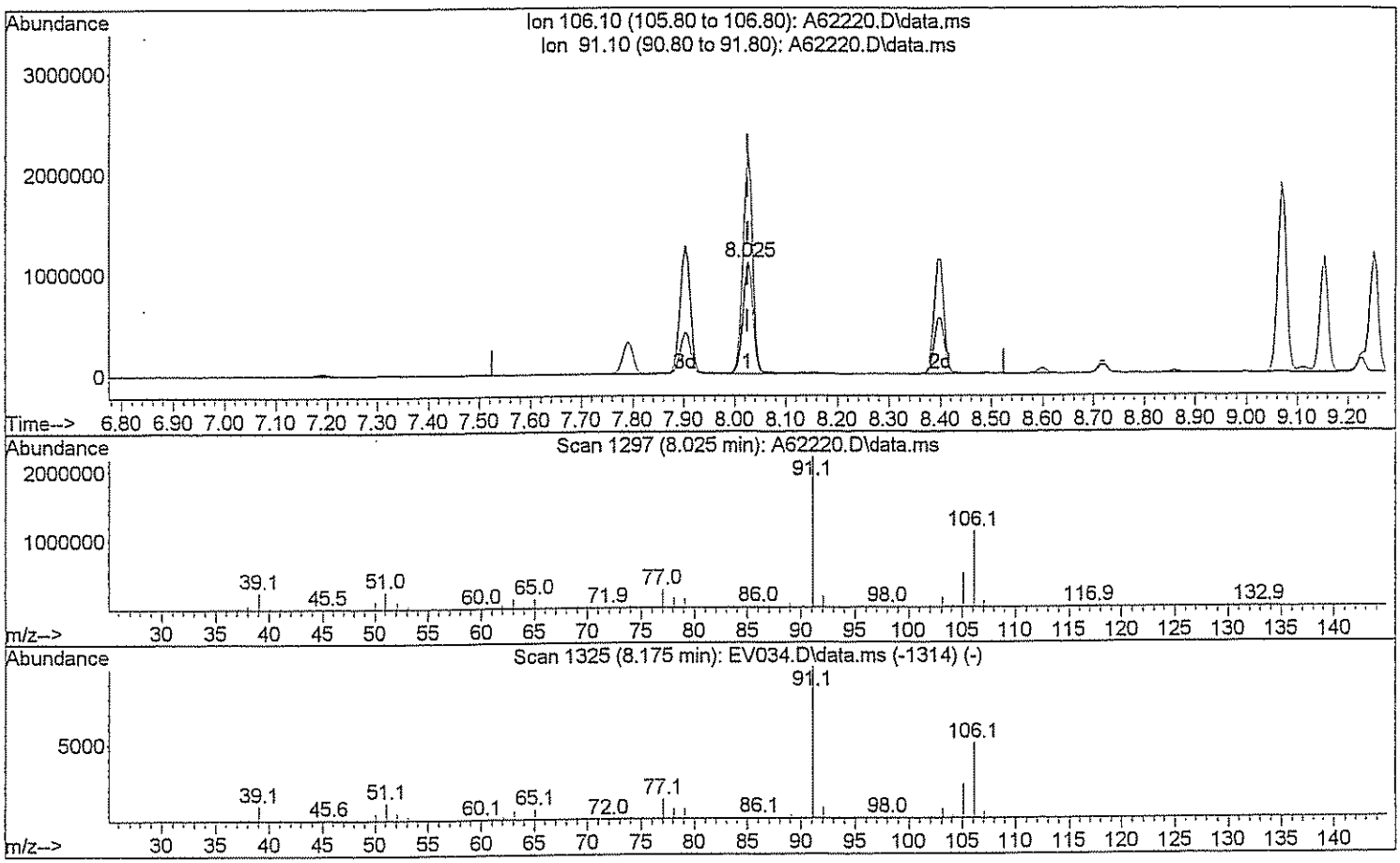
response 1497265

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(71) Xylene (Total)

8.025min (+0.000) 662.20 ug/L m Am 3/12/09

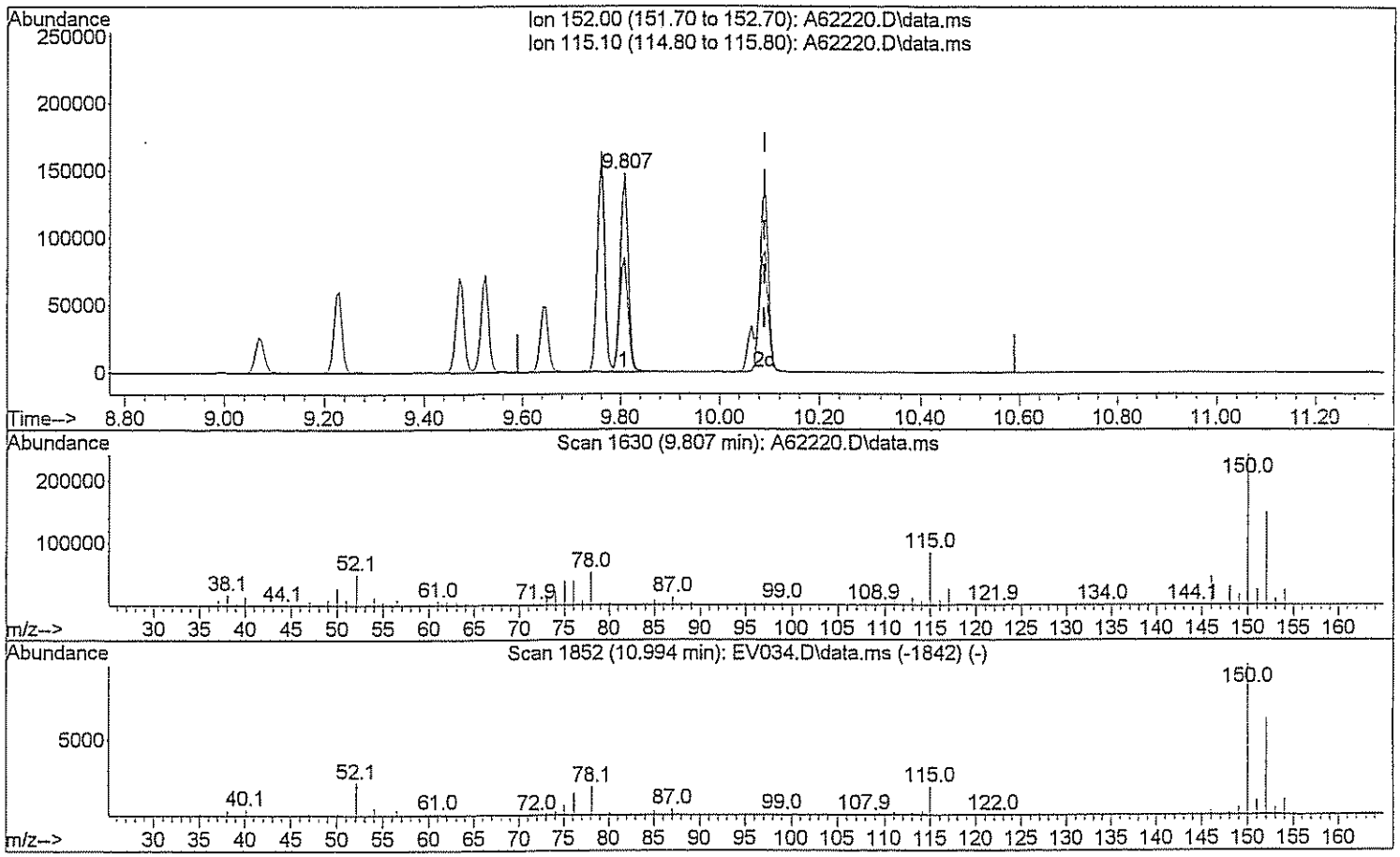
response 2273541

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.283) 56.42 ug/L

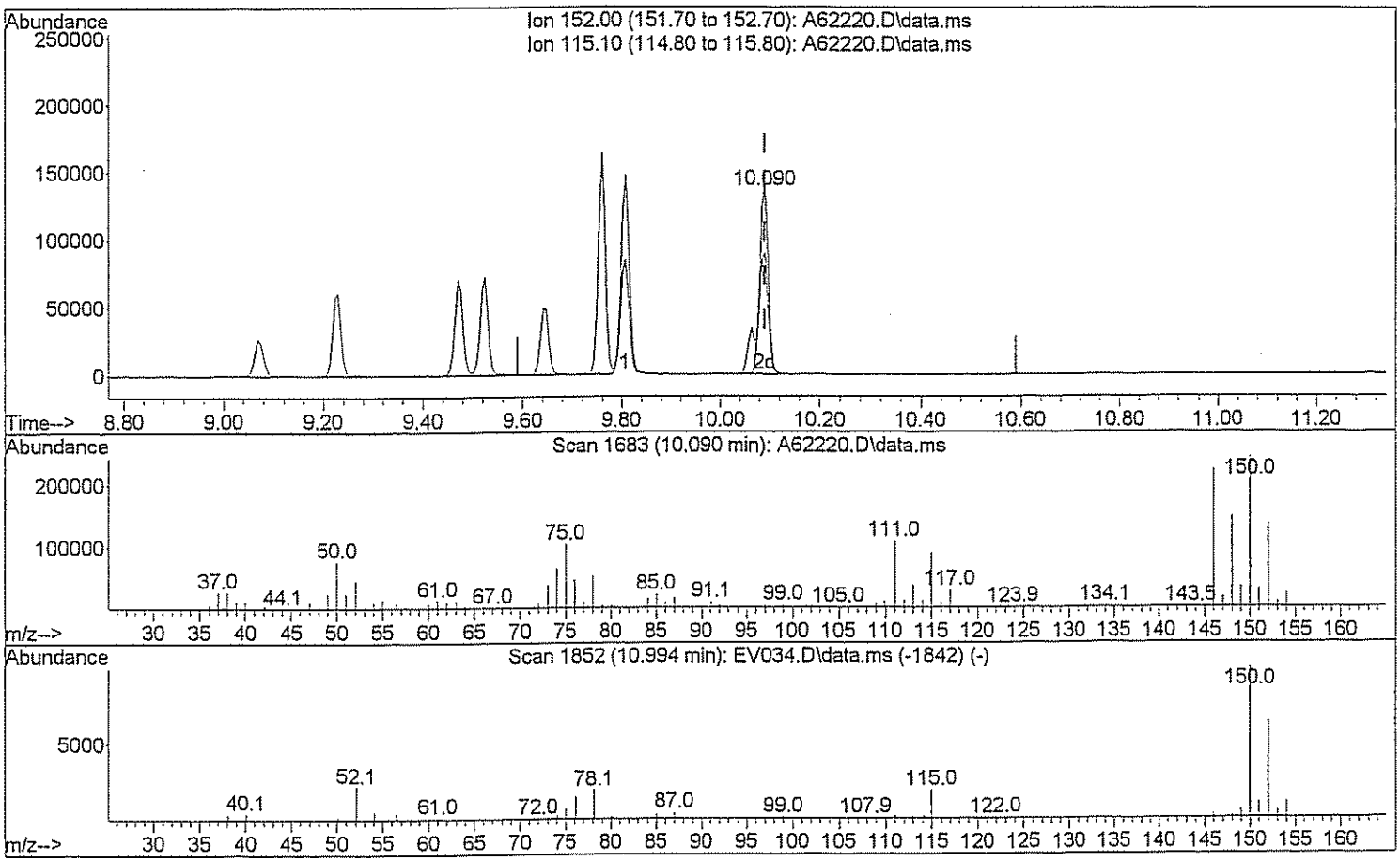
response 171456

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.000) 53.53 ug/L m

3/12/09

response 162681

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	62.65
0.00	0.00	0.00
0.00	0.00	0.00

REFERENCE
Evaluate ~~Continuing~~ Calibration Report

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	46#	0.00
2		Dichlorodifluoromethane	0.113	0.147	-30.1#	78	0.00
3		Chloromethane	0.142	0.146	-2.8	63	0.00
4		Vinyl chloride	0.183	0.233	-27.3#	64	0.00
5		Bromomethane	0.064	0.082	-28.1#	69	0.00
6		Chloroethane	0.142	0.133	6.3	52	0.00
7		Trichlorofluoromethane	0.239	0.290	-21.3	61	0.00
8		Ethyl Ether	0.186	0.204	-9.7	63	0.00
9		Freon 113	0.170	0.186	-9.4	66	0.00
10		Acrolein	0.043	0.047	-9.3	71	0.00
11		Tert-Butyl alcohol	0.020	0.016	20.0	64	0.00
12		1,1-Dichloroethene	0.184	0.181	1.6	60	0.00
13		Iodomethane	0.164	0.256	-56.1#	65	0.00
14		Acetonitrile	0.096	0.118	-22.9	61	0.00
15		Methylene chloride	0.257	0.229	10.9	58	0.00
16		Trans-1,2-dichloroethene	0.200	0.200	0.0	55	0.00
17		Isopropyl ether	0.805	0.895	-11.2	62	0.01
18		1,1-Dichloroethane	0.356	0.398	-11.8	58	0.00
19		Acetone	0.092	0.092	0.0	75	0.00
20		Methyl Acetate	0.209	0.179	14.4	54	0.00
21		MTBE	0.579	0.630	-8.8	60	0.00
22		Carbon disulfide	0.764	0.627	17.9	61	0.00
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.077	-2.7	66	0.00
25		Chloroprene	0.341	0.349	-2.3	59	0.00
26	T	n-Heptane	0.174	0.178	-2.3	53	0.00
27		2,2-Dichloropropane	0.291	0.300	-3.1	52	0.00
28		Cis-1,2-dichloroethene	0.238	0.228	4.2	51	0.00
29		1,2-dichloroethene(total)	0.217	0.219	-0.9	53	-0.82#
30		Propionitrile	0.032	0.033	-3.1	58	0.00
31		Bromochloromethane	0.115	0.117	-1.7	51	0.00
32		Tetrahydrofuran	0.059	0.057	3.4	52	0.00
33		Chloroform	0.403	0.393	2.5	52	0.00
34		Cyclohexane	0.398	0.400	-0.5	57	0.00
35		1,1,1-Trichloroethane	0.307	0.320	-4.2	49#	0.00
36		Carbon tetrachloride	0.232	0.246	-6.0	43#	0.00
37		Methylcyclohexane	0.342	0.373	-9.1	52	0.00
38		Isobutyl Alcohol	0.016	0.018	-12.5	57	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.301	-9.1	52	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	46#	0.00
41		2-Butanone	0.191	0.183	4.2	60	0.00
42		1,1-Dichloropropene	0.326	0.337	-3.4	47#	0.00
43		Vinyl Acetate	0.357	0.343	3.9	52	0.00
44		Benzene	1.078	1.051	2.5	46#	0.00
45		1,2-Dichloroethane	0.340	0.371	-9.1	50	0.00
46		Trichloroethene	0.276	0.265	4.0	46#	0.00
47		1,2-Dichloropropane	0.280	0.284	-1.4	45#	0.00
48		Methyl methacrylate	0.221	0.193	12.7	45#	0.00
49		Dibromomethane	0.170	0.167	1.8	43#	0.00
50		Bromodichloromethane	0.361	0.340	5.8	42#	0.00
51		2-Chloroethylvinyl ether	0.188	0.181	3.7	44#	0.00
52		Cis-1,3-dichloropropene	0.408	0.396	2.9	40#	0.00
53	SS	Toluene-d8	1.110	1.140	-2.7	62	0.00
54		Toluene	0.589	0.630	-7.0	57	0.00
55		Trans-1,3-dichloropropene	0.372	0.365	1.9	54	0.00
56		Ethyl methacrylate	0.349	0.359	-2.9	59	0.00
57		1,1,2-Trichloroethane	0.208	0.214	-2.9	60	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	66	0.00
59		4-Methyl-2-pentanone	0.350	0.315	10.0	64	0.00
60		2-Hexanone	0.240	0.223	7.1	63	0.00
61		Tetrachloroethene	0.264	0.265	-0.4	62	0.00
62		1,3-Dichloropropane	0.405	0.413	-2.0	64	0.00
63		Dibromochloromethane	0.278	0.263	5.4	57	0.02
64		1,2-Dibromoethane	0.251	0.249	0.8	61	0.00
65		1-Chlorohexane	0.415	0.371	10.6	62	0.00
66		Chlorobenzene	0.821	0.804	2.1	62	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.297	2.6	60	0.00
68		Ethylbenzene	1.403	1.349	3.8	62	0.00
69		m,p-Xylene	0.579	0.557	3.8	62	0.00
70		o-Xylene	0.571	0.573	-0.4	63	0.00
71		Xylene (Total)	0.573	0.565	1.4	62	0.00
72		Styrene	0.959	0.942	1.8	62	0.00
73		Bromoform	0.187	0.188	-0.5	59	0.00
74		Isopropylbenzene	1.268	1.282	-1.1	64	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.535	-7.9	71	0.00
76		Bromobenzene	0.362	0.364	-0.6	64	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.387	0.0	66	0.00
78		1,2,3-Trichloropropane	0.116	0.110	5.2	64	0.00
79		n-Propylbenzene	1.718	1.735	-1.0	63	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.119	-8.2	68	0.00
81		2-Chlorotoluene	0.368	0.384	-4.3	64	0.00
82		4-Chlorotoluene	0.392	0.396	-1.0	63	0.00
83		1,3,5-Trimethylbenzene	1.331	1.366	-2.6	65	0.00
84		Tert-butylbenzene	1.188	1.244	-4.7	67	0.00
85		Pentachloroethane	0.000	0.000	0.0	59	0.00
86		1,2,4-Trimethylbenzene	1.416	1.418	-0.1	65	0.00
87		Sec-Butylbenzene	1.840	1.894	-2.9	66	0.00
88		1,3-Dichlorobenzene	0.805	0.815	-1.2	66	0.00
89		4-Isopropyltoluene	1.579	1.670	-5.8	66	0.00
90		1,4-Dichlorobenzene	0.804	0.837	-4.1	67	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.599	-10.7	73	0.00
92		1,2-Dichlorobenzene	0.773	0.815	-5.4	68	0.00
93		n-Butylbenzene	1.496	1.533	-2.5	66	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.087	-13.0	73	0.00
95		1,2,4-Trichlorobenzene	0.529	0.591	-11.7	75	0.00
96		Hexachlorobutadiene	0.235	0.253	-7.7	81	0.00
97		Naphthalene	1.447	1.574	-8.8	73	0.00
98		1,2,3-Trichlorobenzene	0.473	0.528	-11.6	75	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	225368	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	184873	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.785	117	197670	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	67928	54.56	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 109.12%				
53) Toluene-d8	6.148	98	210745	51.36	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 102.72%				
75) 4-Bromofluorobenzene	8.881	95	105728	53.90	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 107.80%				
91) 1,2-Dichlorobenzene-d4	10.085	152	118385	55.32	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 110.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.210	85	33095	64.90	ug/L		92
3) Chloromethane	1.349	50	32862	51.45	ug/L		99
4) Vinyl chloride	1.413	62	52431	53.65	ug/L	#	85
5) Bromomethane	1.648	94	18464	63.82	ug/L		92
6) Chloroethane	1.718	64	29892	46.74	ug/L		95
7) Trichlorofluoromethane	1.862	101	65436	60.63	ug/L		99
8) Ethyl Ether	2.066	59	45988	54.96	ug/L		98
9) Freon 113	2.199	101	41895	54.79	ug/L		94
10) Acrolein	2.210	56	52967	351.97	ug/L	#	66
11) Tert-Butyl alcohol	2.681	59	73843	1409.85	ug/L	#	47
12) 1,1-Dichloroethene	2.226	96	40889	49.33	ug/L		100
13) Iodomethane	2.355	142	57756	77.99	ug/L		96
14) Acetonitrile	2.499	40	264932	510.47	ug/L	#	1
15) Methylene chloride	2.611	84	51592	51.18	ug/L		93
16) Trans-1,2-dichloroethene	2.772	96	45007	49.93	ug/L		98
17) Isopropyl ether	3.109	45	201784	55.65	ug/L		100
18) 1,1-Dichloroethane	3.125	63	89679	55.88	ug/L		100
19) Acetone	2.317	43	41468	152.17	ug/L		92
20) Methyl Acetate	4.264	43	40331	70.32	ug/L	#	100
21) MTBE	2.756	73	141930	54.41	ug/L		100
22) Carbon disulfide	2.376	76	141319	55.88	ug/L		100
24) Acrylonitrile	2.847	53	86622	330.61	ug/L		97
25) Chloroprene	3.162	53	78717	51.28	ug/L		94
26) n-Heptane	4.446	71	40016m	51.08	ug/L		
27) 2,2-Dichloropropane	3.564	77	67505	51.50	ug/L	#	39
28) Cis-1,2-dichloroethene	3.590	96	51392	47.94	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.772	96	98618m	100.76 ug/L		
30) Propionitrile	3.745	54	75180	527.05 ug/L		96
31) Bromochloromethane	3.799	128	26281	50.49 ug/L		98
32) Tetrahydrofuran	3.622	72	12753	47.61 ug/L	#	1
33) Chloroform	3.847	83	88657	48.77 ug/L		97
34) Cyclohexane	3.949	56	90147	55.87 ug/L		95
35) 1,1,1-Trichloroethane	3.970	97	72125	52.06 ug/L		94
36) Carbon tetrachloride	4.072	117	55509	43.74 ug/L		97
37) Methylcyclohexane	5.003	83	83979	54.52 ug/L		95
38) Isobutyl Alcohol	4.446	43	79106	1103.89 ug/L		89
41) 2-Butanone	3.628	43	67845	126.80 ug/L		97
42) 1,1-Dichloropropene	4.109	75	62267	51.69 ug/L		96
43) Vinyl Acetate	3.152	43	63412	48.06 ug/L		99
44) Benzene	4.291	78	194237	48.74 ug/L		100
45) 1,2-Dichloroethane	4.382	62	68558	54.46 ug/L	#	86
46) Trichloroethene	4.890	95	48984	47.94 ug/L		92
47) 1,2-Dichloropropane	5.168	63	52501	50.66 ug/L		95
48) Methyl methacrylate	5.270	69	35694	51.91 ug/L		93
49) Dibromomethane	5.286	93	30832	48.98 ug/L		99
50) Bromodichloromethane	5.436	83	62929	47.21 ug/L		100
51) 2-Chloroethylvinyl ether	5.784	63	133955	192.70 ug/L		99
52) Cis-1,3-dichloropropene	5.917	75	73284	42.44 ug/L		99
54) Toluene	6.222	92	116501	53.53 ug/L		96
55) Trans-1,3-dichloropropene	6.575	75	67425	48.96 ug/L		99
56) Ethyl methacrylate	6.629	69	66438	51.53 ug/L		90
57) 1,1,2-Trichloroethane	6.779	83	39491	51.34 ug/L		93
59) 4-Methyl-2-pentanone	6.099	43	124616	90.16 ug/L	#	92
60) 2-Hexanone	7.068	43	88216	93.10 ug/L		97
61) Tetrachloroethene	6.795	166	52394	50.16 ug/L		95
62) 1,3-Dichloropropane	6.977	76	81732	51.03 ug/L		96
63) Dibromochloromethane	7.191	129	51956	47.24 ug/L		100
64) 1,2-Dibromoethane	7.319	107	49258	49.55 ug/L		98
65) 1-Chlorohexane	7.790	91	73285	44.65 ug/L		97
66) Chlorobenzene	7.811	112	158977	48.97 ug/L		91
67) 1,1,1,2-Tetrachloroethane	7.908	131	58797	44.13 ug/L		94
68) Ethylbenzene	7.902	91	266736	48.11 ug/L		98
69) m,p-Xylene	8.020	106	220147	96.14 ug/L		88
70) o-Xylene	8.394	106	113298	50.19 ug/L		93
71) Xylene (Total)	8.020	106	335117m	148.01 ug/L		
72) Styrene	8.421	104	186280	49.11 ug/L		92
73) Bromoform	8.598	173	37234	42.69 ug/L		98
74) Isopropylbenzene	8.715	105	253471	50.55 ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

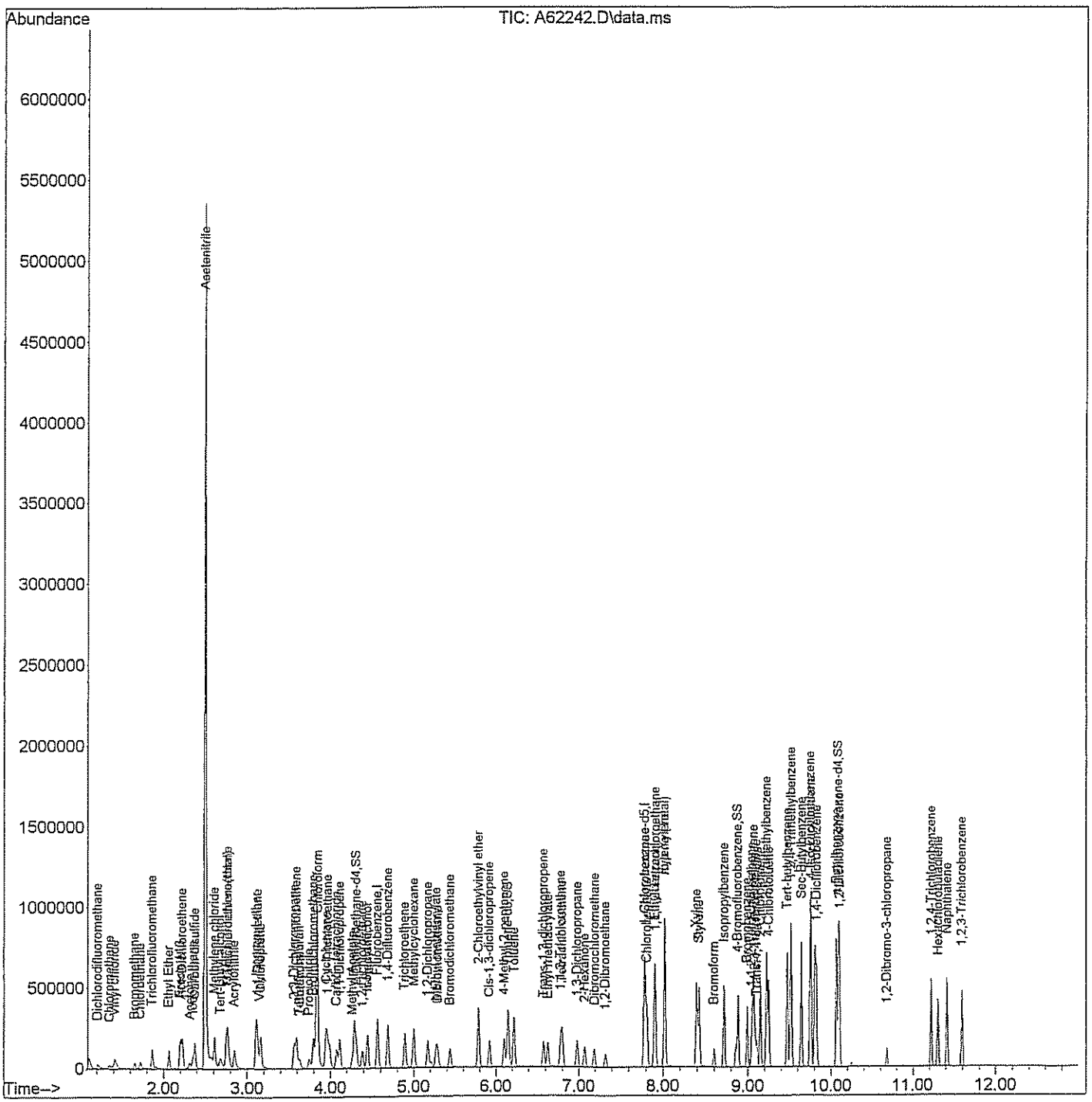
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	71889	50.18 ug/L	97
77) 1,1,2,2-Tetrachloroethane	9.047	83	76564	49.98 ug/L	97
78) 1,2,3-Trichloropropane	9.084	110	21658	47.38 ug/L	97
79) n-Propylbenzene	9.068	91	343014	50.50 ug/L	98
80) Trans-1,4-dichloro-2-b...	9.106	53	23461	53.90 ug/L #	25
81) 2-Chlorotoluene	9.149	126	75972	52.16 ug/L	88
82) 4-Chlorotoluene	9.250	126	78312	50.56 ug/L	94
83) 1,3,5-Trimethylbenzene	9.224	105	269919	51.31 ug/L	97
84) Tert-butylbenzene	9.470	119	245990	52.35 ug/L	96
86) 1,2,4-Trimethylbenzene	9.518	105	280364	50.10 ug/L	94
87) Sec-Butylbenzene	9.641	105	374344	51.45 ug/L	99
88) 1,3-Dichlorobenzene	9.748	146	161103	50.62 ug/L	98
89) 4-Isopropyltoluene	9.759	119	330147	52.88 ug/L	99
90) 1,4-Dichlorobenzene	9.823	146	165386	52.05 ug/L	97
92) 1,2-Dichlorobenzene	10.101	146	161017	52.66 ug/L	99
93) n-Butylbenzene	10.058	91	302933	51.22 ug/L	94
94) 1,2-Dibromo-3-chloropr...	10.679	75	17173	56.77 ug/L	85
95) 1,2,4-Trichlorobenzene	11.224	180	116881	55.89 ug/L	100
96) Hexachlorobutadiene	11.305	225	50107	53.89 ug/L	98
97) Naphthalene	11.412	128	311050	54.38 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	104452	55.87 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

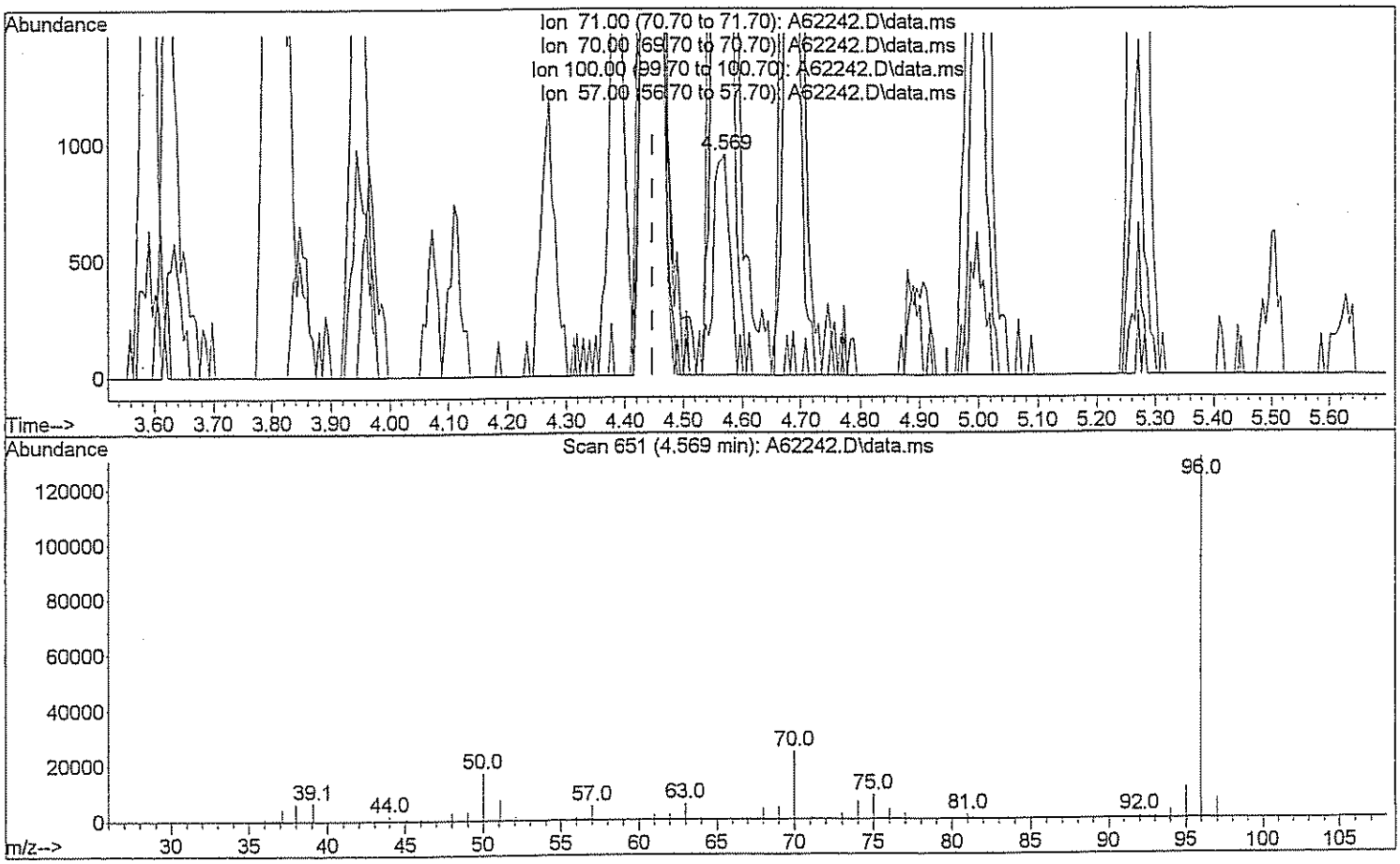
Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(26) n-Heptane (T)

4.569min (+0.122) 2.50 ug/L

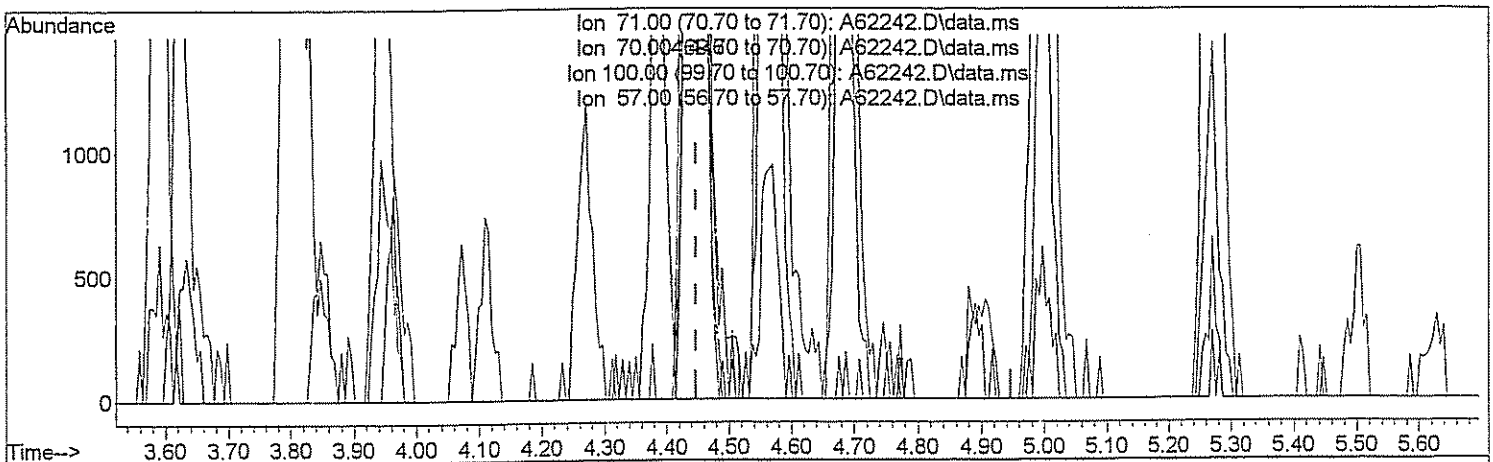
response 1961

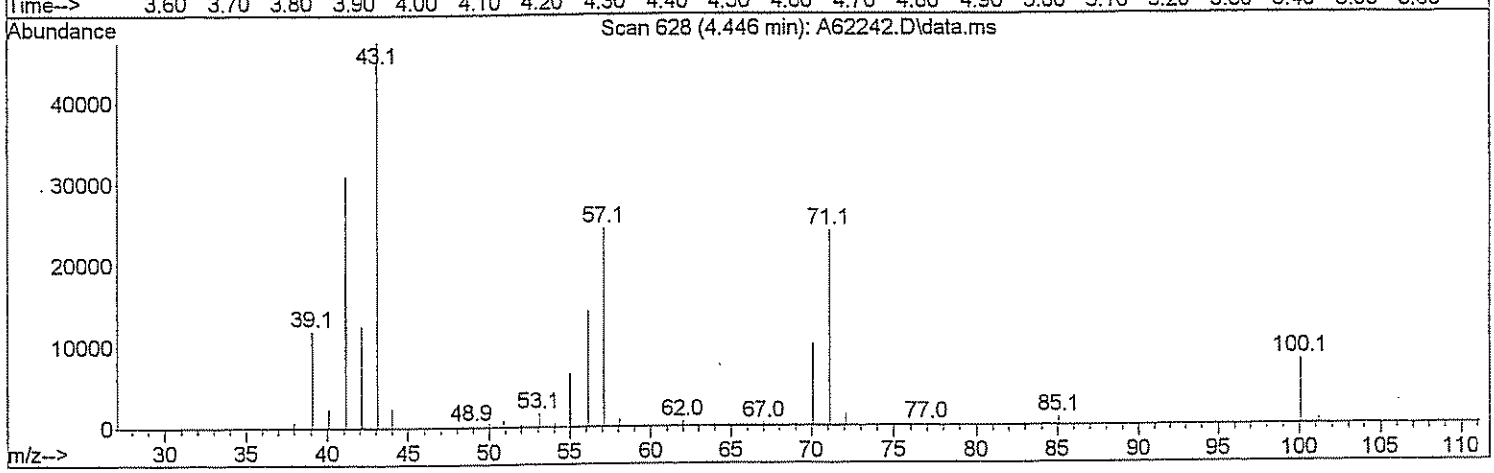
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2134.68#
100.00	60.00	0.00#
57.00	34.00	496.69#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration





TIC: A62242.D\data.ms

(26) n-Heptane (T)

4.446min (-0.001) 51.08 ug/L m

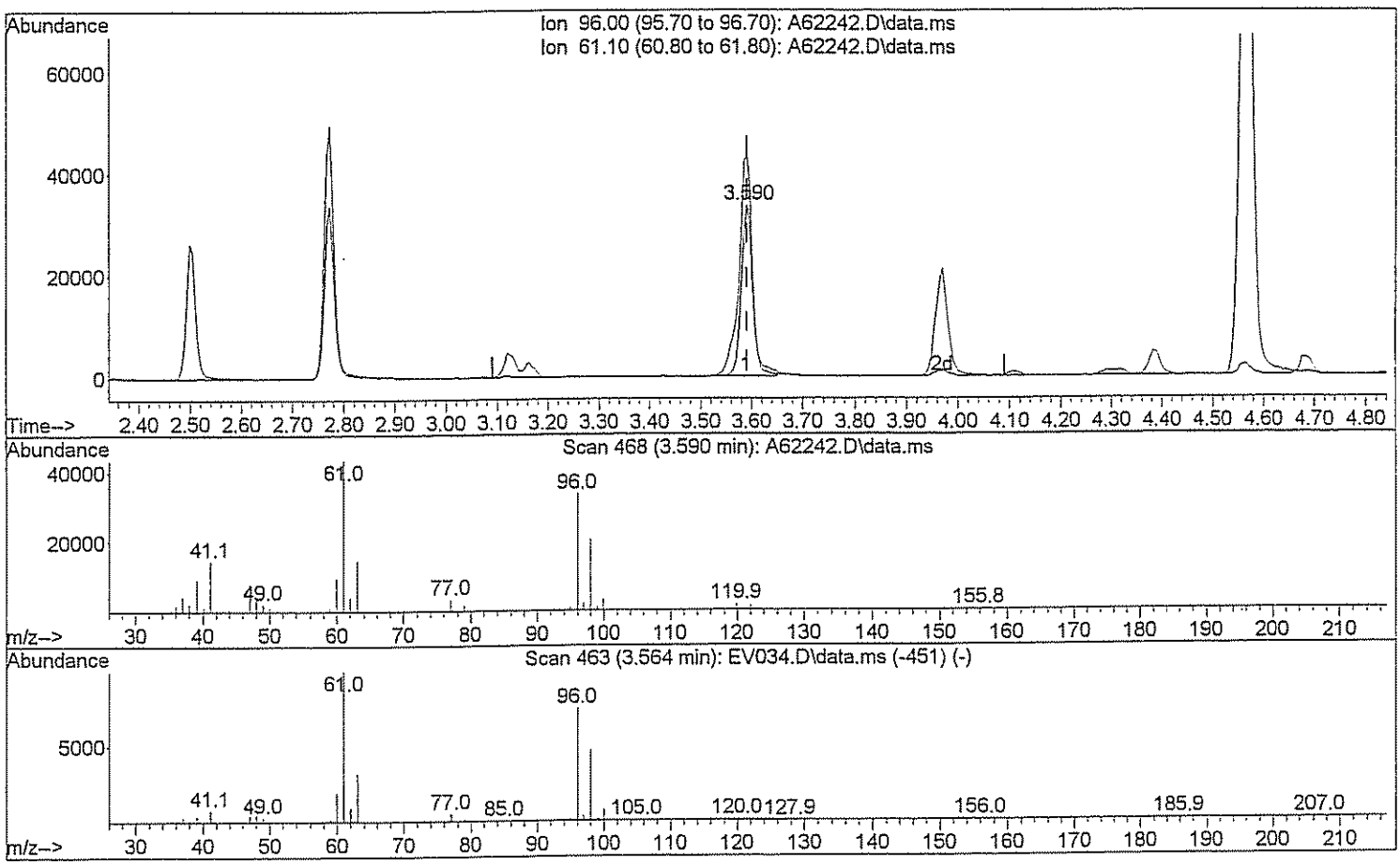
response 40016

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	104.61#
100.00	60.00	0.00#
57.00	34.00	24.34#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 52.51 ug/L

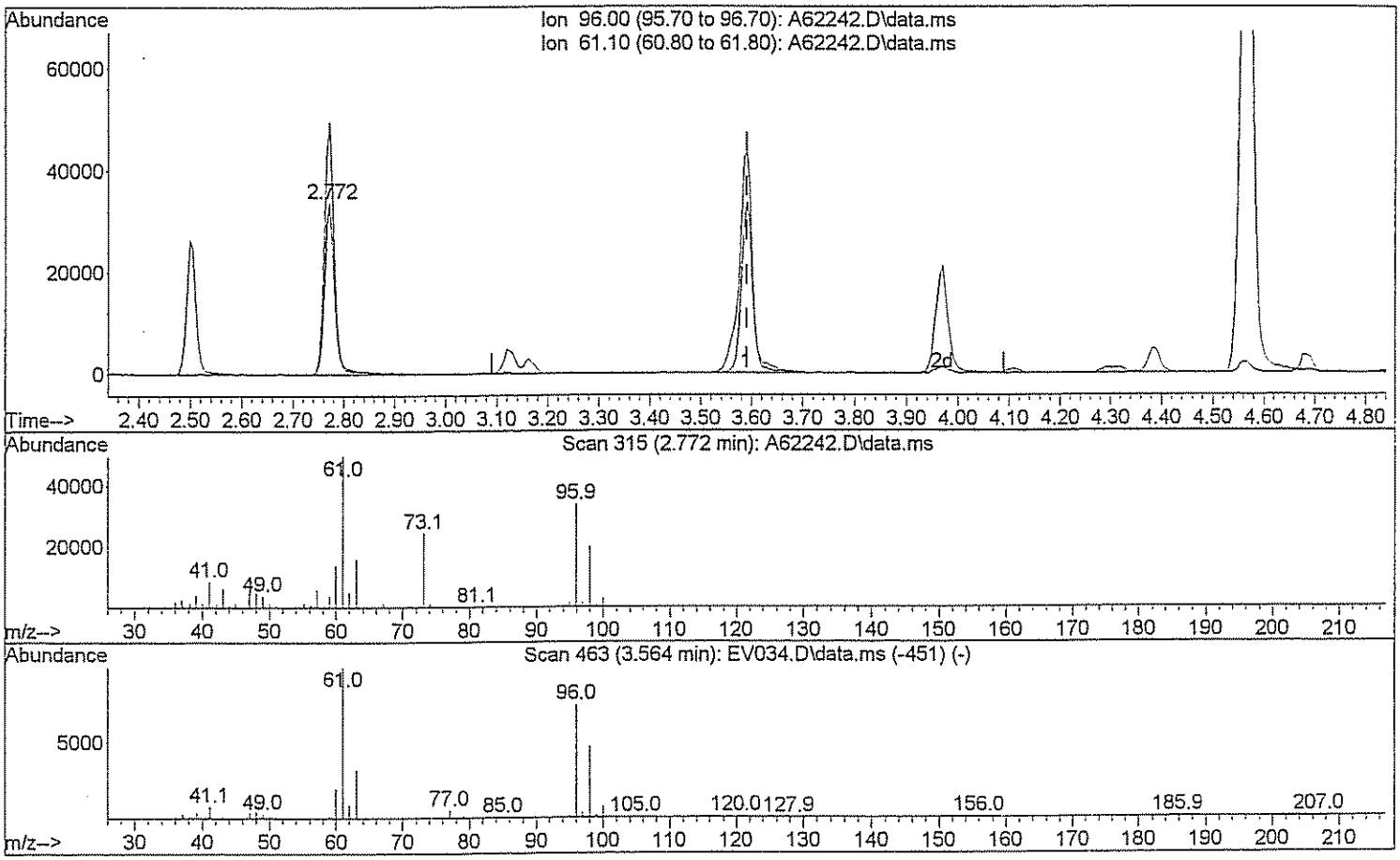
response 51392

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	158.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(29) 1,2-dichloroethene(total)

2.772min (-0.819) 100.76 ug/L m DM 3/12/09

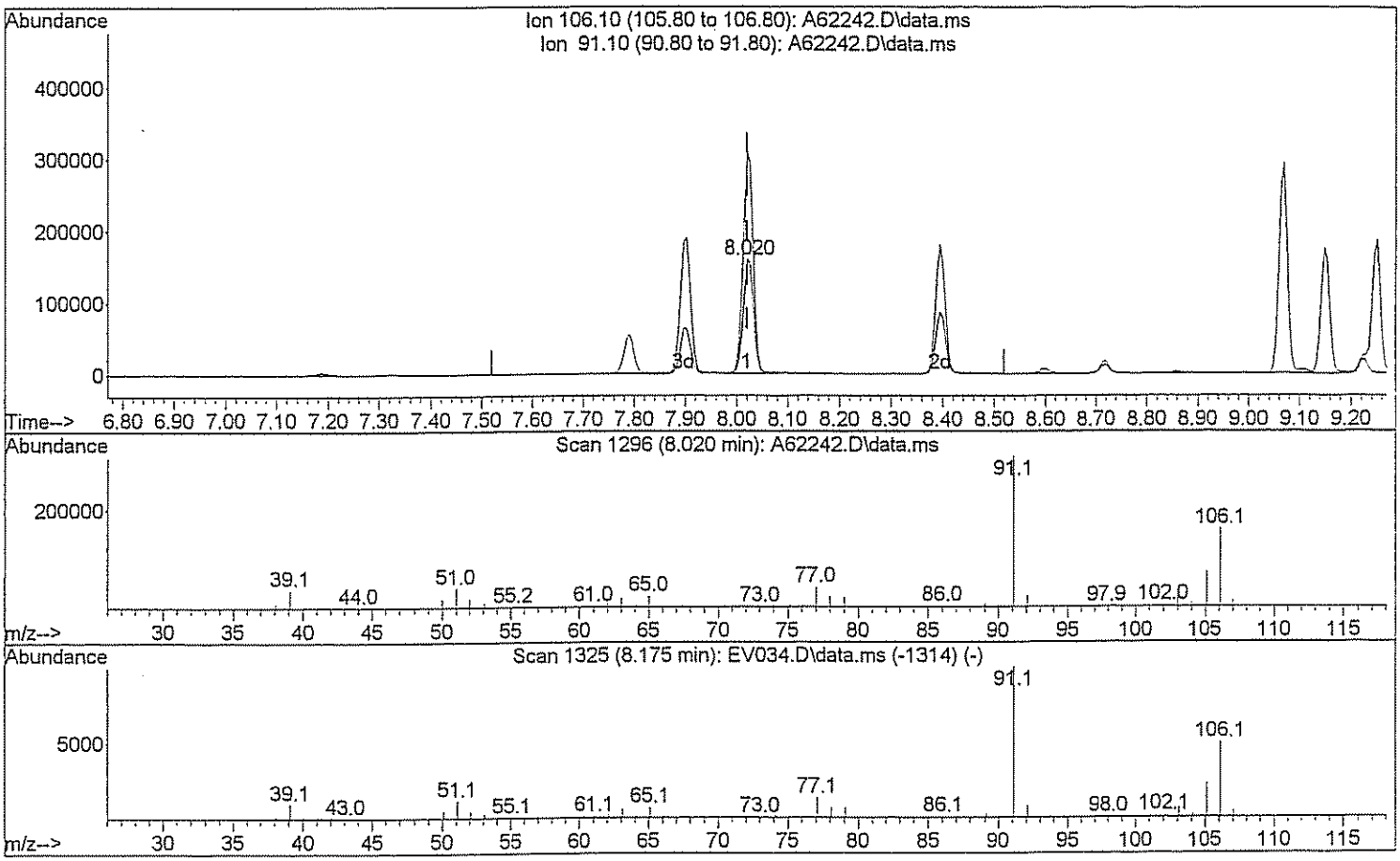
response 98618

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	82.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 97.23 ug/L

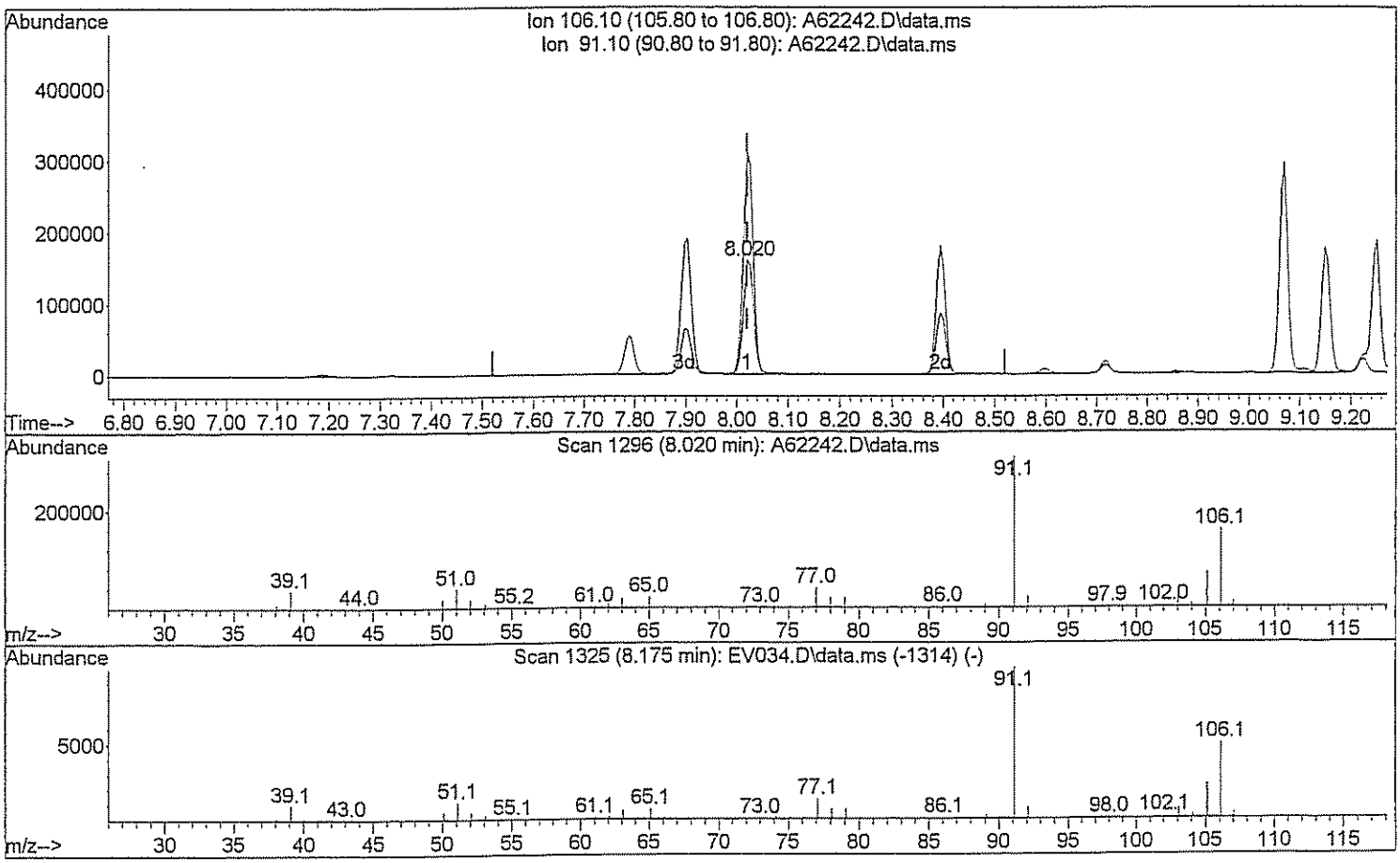
response 220147

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	190.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 148.01 ug/L m

response 335117

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.05#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 15:47:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	81	0.00
2		Dichlorodifluoromethane	0.113	0.110	2.7	104	0.00
3		Chloromethane	0.142	0.152	-7.0	117	0.00
4		Vinyl chloride	0.183	0.201	-9.8	98	0.00
5		Bromomethane	0.064	0.076	-18.7	113	0.00
6		Chloroethane	0.142	0.125	12.0	87	0.00
7		Trichlorofluoromethane	0.239	0.288	-20.5	108	0.00
8		Ethyl Ether	0.186	0.176	5.4	96	0.00
9		Freon 113	0.170	0.185	-8.8	116	0.00
10		Acrolein	0.043	0.035	18.6	94	0.01
11		Tert-Butyl alcohol	0.020	0.013	35.0#	92	0.00
12		1,1-Dichloroethene	0.184	0.183	0.5	106	0.00
13		Iodomethane	0.164	0.298	-81.7#	134	0.00
14		Acetonitrile	0.096	0.143	-49.0#	131	0.00
15		Methylene chloride	0.257	0.215	16.3	96	0.00
16		Trans-1,2-dichloroethene	0.200	0.200	0.0	98	0.00
17		Isopropyl ether	0.805	0.774	3.9	95	0.00
18		1,1-Dichloroethane	0.356	0.383	-7.6	99	0.00
19		Acetone	0.092	0.064	30.4#	92	0.00
20		Methyl Acetate	0.209	0.143	31.6#	77	0.00
21		MTBE	0.579	0.645	-11.4	109	0.00
22		Carbon disulfide	0.764	0.522	31.7#	90	0.00
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.071	5.3	107	0.00
25		Chloroprene	0.341	0.311	8.8	93	0.00
26	T	n-Heptane	0.174	0.008	95.4#	4#	0.12
27		2,2-Dichloropropane	0.291	0.291	0.0	89	0.00
28		Cis-1,2-dichloroethene	0.238	0.230	3.4	90	0.00
29		1,2-dichloroethene(total)	0.217	0.218	-0.5	94	-0.82#
30		Propionitrile	0.032	0.027	15.6	83	0.00
31		Bromochloromethane	0.115	0.129	-12.2	100	0.00
32		Tetrahydrofuran	0.059	0.052	11.9	83	0.00
33		Chloroform	0.403	0.404	-0.2	95	0.00
34		Cyclohexane	0.398	0.347	12.8	88	0.00
35		1,1,1-Trichloroethane	0.307	0.326	-6.2	89	0.00
36		Carbon tetrachloride	0.232	0.306	-31.9#	95	0.00
37		Methylcyclohexane	0.342	0.335	2.0	83	0.00
38		Isobutyl Alcohol	0.016	0.007	56.3#	41#	-0.18

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 15:47:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.285	-3.3	87	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
41		2-Butanone	0.191	0.143	25.1#	86	0.00
42		1,1-Dichloropropene	0.326	0.315	3.4	81	0.00
43		Vinyl Acetate	0.357	0.291	18.5	82	0.00
44		Benzene	1.078	0.945	12.3	76	0.00
45		1,2-Dichloroethane	0.340	0.327	3.8	81	0.00
46		Trichloroethene	0.276	0.245	11.2	78	0.00
47		1,2-Dichloropropane	0.280	0.260	7.1	75	0.00
48		Methyl methacrylate	0.221	0.179	19.0	76	0.00
49		Dibromomethane	0.170	0.171	-0.6	82	0.00
50		Bromodichloromethane	0.361	0.331	8.3	75	0.00
51		2-Chloroethylvinyl ether	0.188	0.158	16.0	71	0.00
52		Cis-1,3-dichloropropene	0.408	0.380	6.9	70	0.00
53	SS	Toluene-d8	1.110	1.110	0.0	112	0.00
54		Toluene	0.589	0.606	-2.9	100	0.00
55		Trans-1,3-dichloropropene	0.372	0.348	6.5	94	0.00
56		Ethyl methacrylate	0.349	0.323	7.4	98	0.00
57		1,1,2-Trichloroethane	0.208	0.193	7.2	100	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	136	0.00
59		4-Methyl-2-pentanone	0.350	0.251	28.3#	105	0.00
60		2-Hexanone	0.240	0.189	21.2	111	0.00
61		Tetrachloroethene	0.264	0.251	4.9	122	0.00
62		1,3-Dichloropropane	0.405	0.388	4.2	124	0.00
63		Dibromochloromethane	0.278	0.274	1.4	123	0.02
64		1,2-Dibromoethane	0.251	0.244	2.8	122	0.00
65		1-Chlorohexane	0.415	0.361	13.0	124	0.00
66		Chlorobenzene	0.821	0.810	1.3	128	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.326	-6.9	135	0.00
68		Ethylbenzene	1.403	1.322	5.8	125	0.00
69		m,p-Xylene	0.579	0.560	3.3	129	0.00
70		o-Xylene	0.571	0.565	1.1	127	0.00
71		Xylene (Total)	0.573	0.563	1.7	128	0.00
72		Styrene	0.959	0.930	3.0	125	0.00
73		Bromoform	0.187	0.204	-9.1	132	0.00
74		Isopropylbenzene	1.268	1.279	-0.9	132	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 15:47:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.521	-5.0	142	0.00
76		Bromobenzene	0.362	0.387	-6.9	141	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.367	5.2	128	0.00
78		1,2,3-Trichloropropane	0.116	0.113	2.6	136	0.00
79		n-Propylbenzene	1.718	1.684	2.0	125	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.114	-3.6	134	0.00
81		2-Chlorotoluene	0.368	0.400	-8.7	137	0.00
82		4-Chlorotoluene	0.392	0.421	-7.4	139	0.00
83		1,3,5-Trimethylbenzene	1.331	1.318	1.0	129	0.00
84		Tert-butylbenzene	1.188	1.252	-5.4	138	0.00
85		Pentachloroethane	0.000	0.000	0.0	138	0.00
86		1,2,4-Trimethylbenzene	1.416	1.407	0.6	133	0.00
87		Sec-Butylbenzene	1.840	1.850	-0.5	132	0.00
88		1,3-Dichlorobenzene	0.805	0.886	-10.1	148	0.00
89		4-Isopropyltoluene	1.579	1.715	-8.6	141	0.00
90		1,4-Dichlorobenzene	0.804	0.885	-10.1	145	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.618	-14.2	155#	0.00
92		1,2-Dichlorobenzene	0.773	0.839	-8.5	145	0.00
93		n-Butylbenzene	1.496	1.479	1.1	131	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.071	7.8	123	0.00
95		1,2,4-Trichlorobenzene	0.529	0.568	-7.4	149	0.00
96		Hexachlorobutadiene	0.235	0.241	-2.6	158#	0.00
97		Naphthalene	1.447	1.514	-4.6	144	0.00
98		1,2,3-Trichlorobenzene	0.473	0.507	-7.2	148	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 15:47:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	399248	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	339842	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.779	117	407256	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	113836	51.61	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.22%				
53) Toluene-d8	6.148	98	377212	50.01	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.02%				
75) 4-Bromofluorobenzene	8.881	95	212268	52.52	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 105.04%				
91) 1,2-Dichlorobenzene-d4	10.085	152	251719	57.09	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.18%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.210	85	44049	48.76	ug/L		98
3) Chloromethane	1.354	50	60755	53.70	ug/L		96
4) Vinyl chloride	1.418	62	80144	46.94	ug/L		98
5) Bromomethane	1.649	94	30231	58.98	ug/L		93
6) Chloroethane	1.723	64	50094	44.21	ug/L		98
7) Trichlorofluoromethane	1.863	101	115052	60.17	ug/L		99
8) Ethyl Ether	2.066	59	70290	47.41	ug/L		94
9) Freon 113	2.200	101	73910	54.57	ug/L		92
10) Acrolein	2.216	56	70126	280.85	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	105868	1272.89	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	72929	49.67	ug/L		90
13) Iodomethane	2.355	142	118964	90.67	ug/L		98
14) Acetonitrile	2.499	40	569410	607.74	ug/L	#	1
15) Methylene chloride	2.611	84	85714	48.15	ug/L		97
16) Trans-1,2-dichloroethene	2.772	96	79849	50.01	ug/L		89
17) Isopropyl ether	3.104	45	308863	48.08	ug/L		96
18) 1,1-Dichloroethane	3.125	63	152985	53.81	ug/L		96
19) Acetone	2.317	43	50775	118.27	ug/L		94
20) Methyl Acetate	4.259	43	57159	62.70	ug/L	#	100
21) MTBE	2.756	73	257605	55.75	ug/L		100
22) Carbon disulfide	2.376	76	208538	46.82	ug/L		100
24) Acrylonitrile	2.852	53	140824	309.27	ug/L		99
25) Chloroprene	3.162	53	124055	45.62	ug/L		88
26) n-Heptane	4.564	71	3130	2.26	ug/L	#	1
27) 2,2-Dichloropropane	3.564	77	116202	50.04	ug/L	#	66
28) Cis-1,2-dichloroethene	3.590	96	91879	48.38	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 15:47:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.772	96	174285m	100.52 ug/L		
30) Propionitrile	3.746	54	108509	429.40 ug/L		98
31) Bromochloromethane	3.799	128	51402	55.74 ug/L		75
32) Tetrahydrofuran	3.623	72	20599	43.41 ug/L	#	1
33) Chloroform	3.847	83	161233	50.06 ug/L		97
34) Cyclohexane	3.949	56	138484	48.52 ug/L		88
35) 1,1,1-Trichloroethane	3.970	97	130252	53.07 ug/L		96
36) Carbon tetrachloride	4.072	117	122141	54.02 ug/L		97
37) Methylcyclohexane	4.997	83	133913	49.08 ug/L		91
38) Isobutyl Alcohol	4.259	43	57159	450.25 ug/L		96
41) 2-Butanone	3.623	43	97122	103.32 ug/L	#	92
42) 1,1-Dichloropropene	4.109	75	106995	48.32 ug/L		100
43) Vinyl Acetate	3.152	43	99012	40.83 ug/L	#	93
44) Benzene	4.291	78	321165	43.84 ug/L		100
45) 1,2-Dichloroethane	4.388	62	111189m	48.05 ug/L		
46) Trichloroethene	4.896	95	83283	44.34 ug/L		81
47) 1,2-Dichloropropane	5.169	63	88233	46.31 ug/L		98
48) Methyl methacrylate	5.270	69	60925	48.44 ug/L		91
49) Dibromomethane	5.292	93	58094	50.20 ug/L		96
50) Bromodichloromethane	5.436	83	112399	45.87 ug/L	#	99
51) 2-Chloroethylvinyl ether	5.784	63	215102	168.33 ug/L		98
52) Cis-1,3-dichloropropene	5.918	75	129033	40.76 ug/L		96
54) Toluene	6.223	92	205876	51.46 ug/L		96
55) Trans-1,3-dichloropropene	6.576	75	118216	46.69 ug/L		100
56) Ethyl methacrylate	6.624	69	109756	46.31 ug/L		96
57) 1,1,2-Trichloroethane	6.774	83	65694	46.46 ug/L		92
59) 4-Methyl-2-pentanone	6.099	43	204483	71.80 ug/L		93
60) 2-Hexanone	7.068	43	154094	78.93 ug/L		99
61) Tetrachloroethene	6.800	166	102045	47.42 ug/L		99
62) 1,3-Dichloropropane	6.977	76	158023	47.89 ug/L		84
63) Dibromochloromethane	7.191	129	111390	49.16 ug/L		99
64) 1,2-Dibromoethane	7.319	107	99338	48.50 ug/L		97
65) 1-Chlorohexane	7.790	91	146861	43.43 ug/L		94
66) Chlorobenzene	7.811	112	329994	49.33 ug/L		89
67) 1,1,1,2-Tetrachloroethane	7.908	131	132916	48.08 ug/L		100
68) Ethylbenzene	7.902	91	538321	47.12 ug/L		98
69) m,p-Xylene	8.020	106	456101	96.68 ug/L		86
70) o-Xylene	8.395	106	230085	49.48 ug/L		90
71) Xylene (Total)	8.020	106	687816m	147.45 ug/L		
72) Styrene	8.421	104	378781	48.47 ug/L		93
73) Bromoform	8.598	173	83210	45.94 ug/L		100
74) Isopropylbenzene	8.715	105	520737	50.41 ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 15:47:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

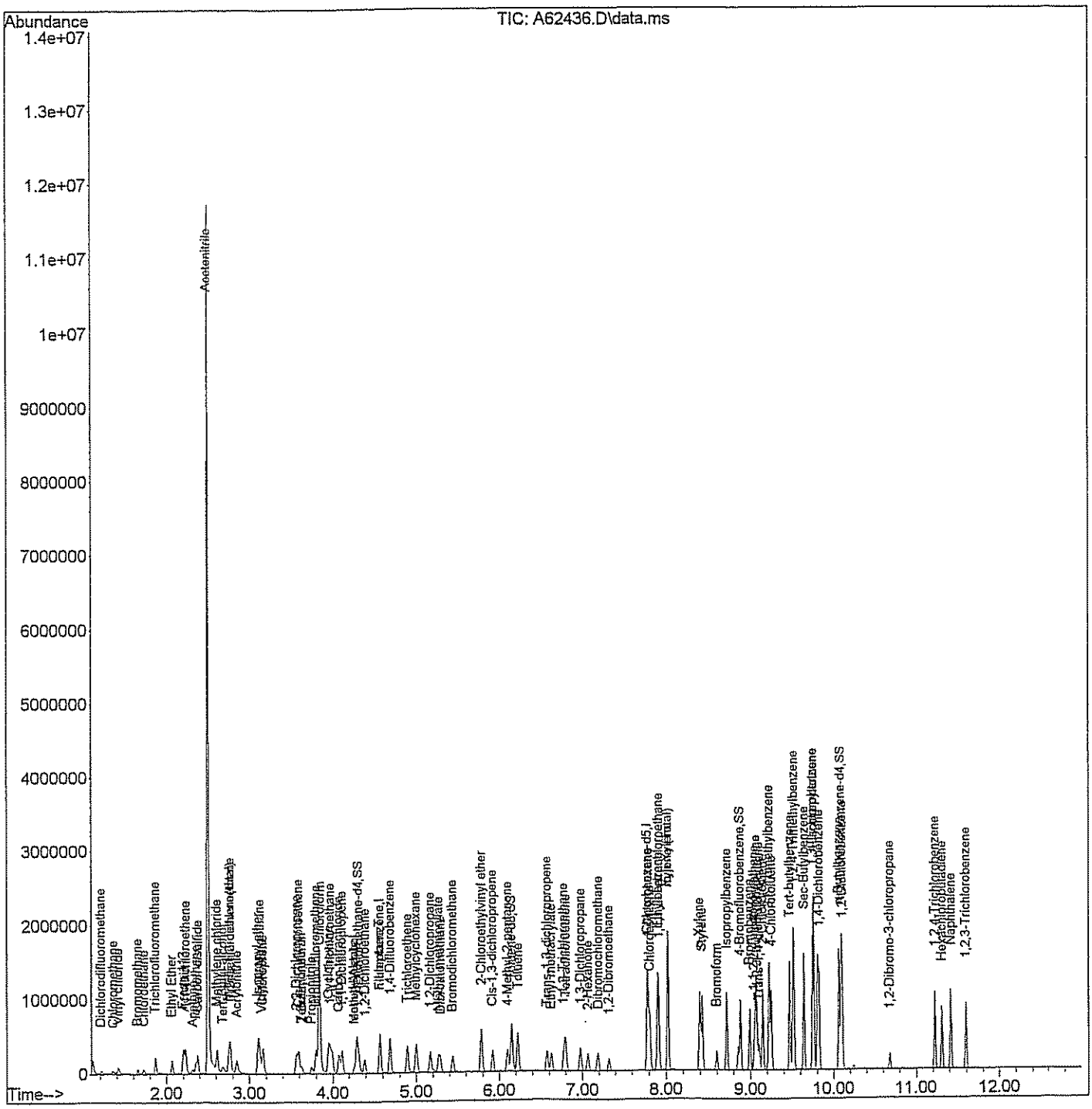
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) Bromobenzene	8.994	156	157553	53.38	ug/L		99
77) 1,1,2,2-Tetrachloroethane	9.047	83	149421	47.34	ug/L		99
78) 1,2,3-Trichloropropane	9.085	110	46159	49.01	ug/L		99
79) n-Propylbenzene	9.069	91	685786	49.01	ug/L		95
80) Trans-1,4-dichloro-2-b...	9.106	53	46466	51.82	ug/L	#	25
81) 2-Chlorotoluene	9.149	126	163086	54.35	ug/L		91
82) 4-Chlorotoluene	9.250	126	171305	53.68	ug/L		77
83) 1,3,5-Trimethylbenzene	9.224	105	536744	49.52	ug/L		92
84) Tert-butylbenzene	9.470	119	510039	52.69	ug/L		94
86) 1,2,4-Trimethylbenzene	9.518	105	573164	49.71	ug/L		91
87) Sec-Butylbenzene	9.641	105	753532	50.27	ug/L		95
88) 1,3-Dichlorobenzene	9.748	146	360836	55.03	ug/L		98
89) 4-Isopropyltoluene	9.753	119	698263	54.29	ug/L		95
90) 1,4-Dichlorobenzene	9.823	146	360449	55.06	ug/L		99
92) 1,2-Dichlorobenzene	10.101	146	341736	54.24	ug/L		96
93) n-Butylbenzene	10.058	91	602322	49.43	ug/L		90
94) 1,2-Dibromo-3-chloropr...	10.679	75	29011	46.55	ug/L	#	66
95) 1,2,4-Trichlorobenzene	11.224	180	231519	53.73	ug/L		99
96) Hexachlorobutadiene	11.305	225	98184	51.26	ug/L		100
97) Naphthalene	11.412	128	616697	52.33	ug/L		100
98) 1,2,3-Trichlorobenzene	11.594	180	206551	53.63	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

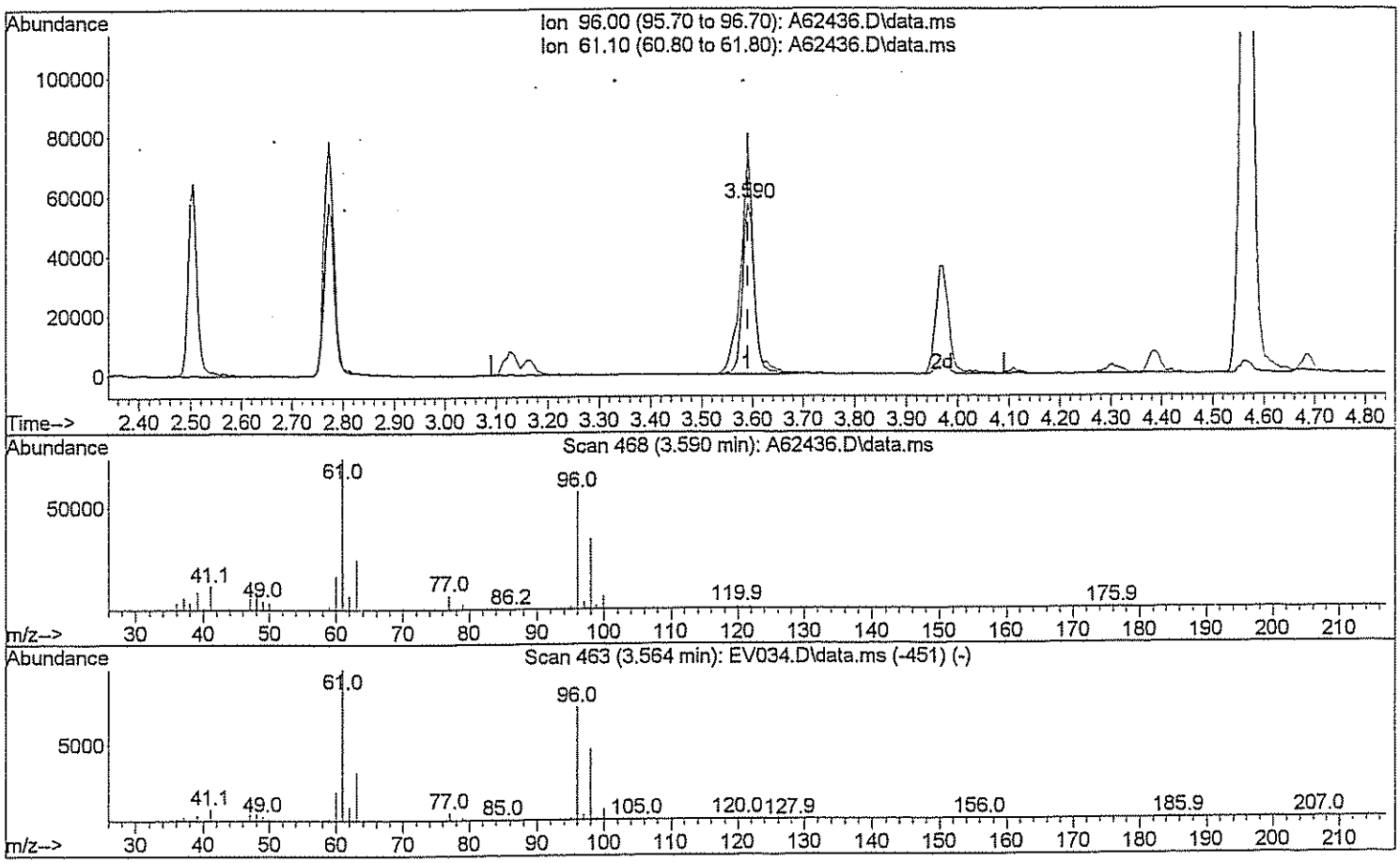
Quant Time: Mar 23 15:47:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 13:08:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62436.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 52.99 ug/L

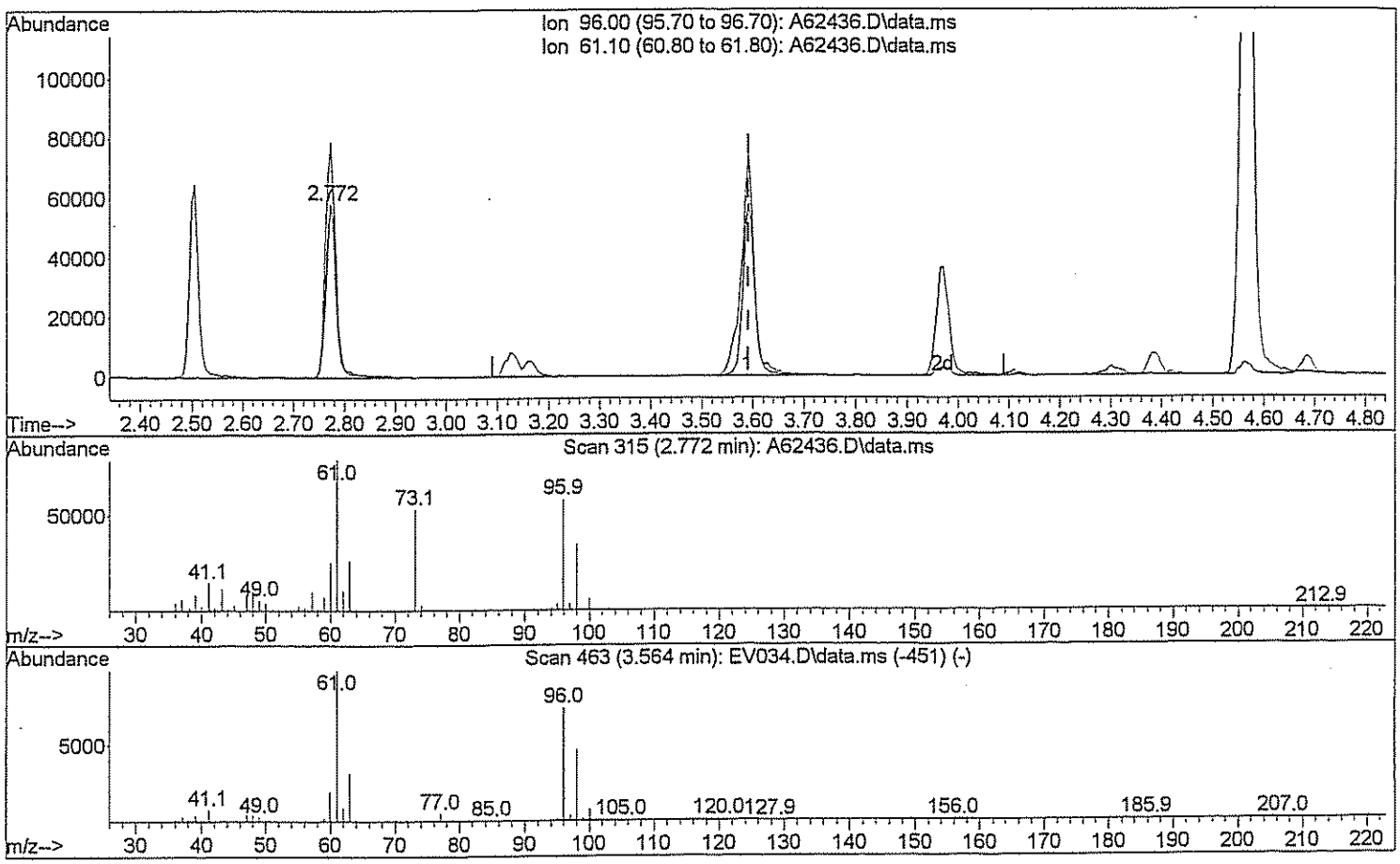
response 91879

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	145.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 13:08:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62436.D\data.ms

(29) 1,2-dichloroethene(total)

2.772min (-0.819) 100.52 ug/L m DW 3/23/09

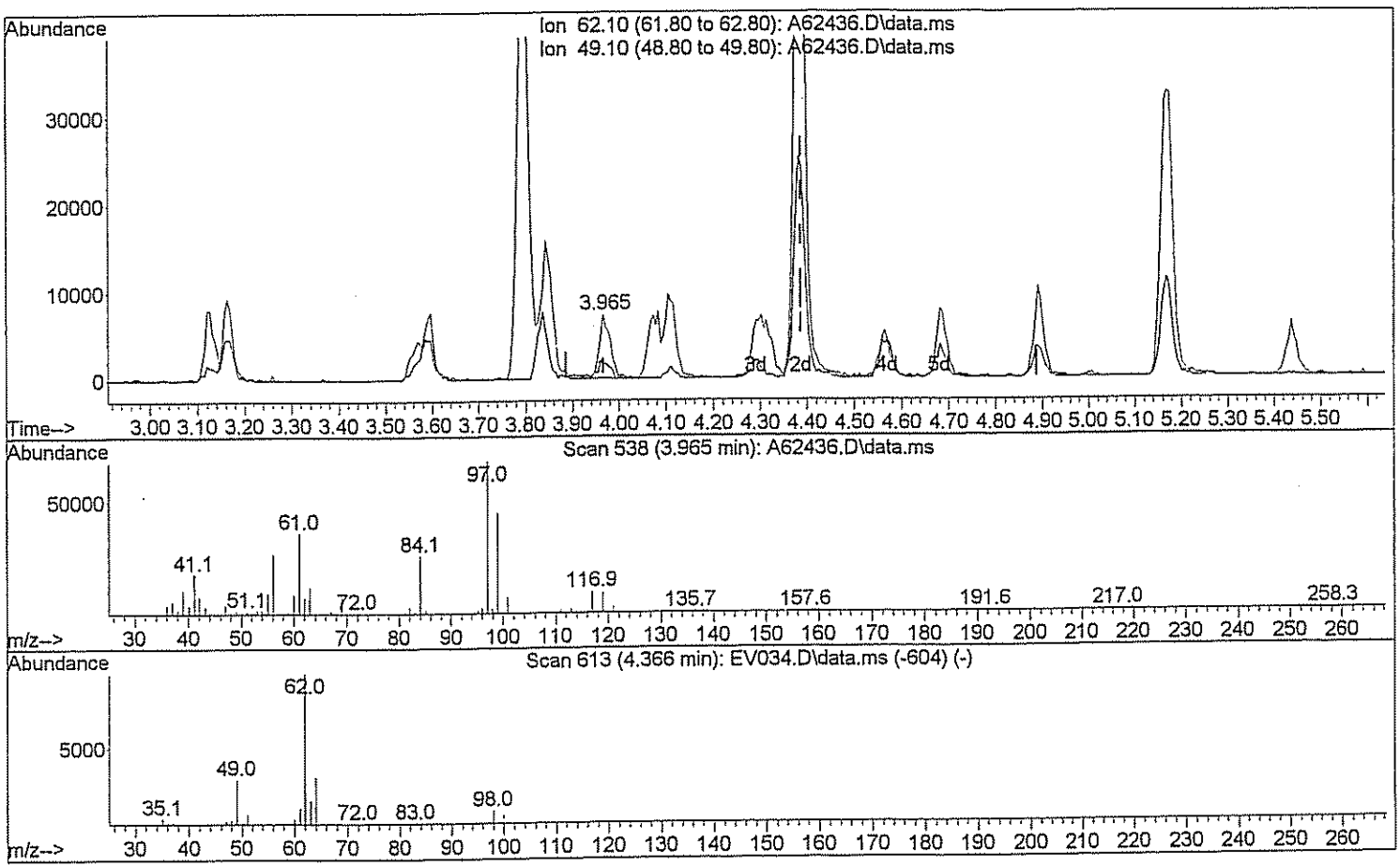
response 174285

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	76.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 13:08:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62436.D\data.ms

(45) 1,2-Dichloroethane

3.965min (-0.423) 5.11 ug/L

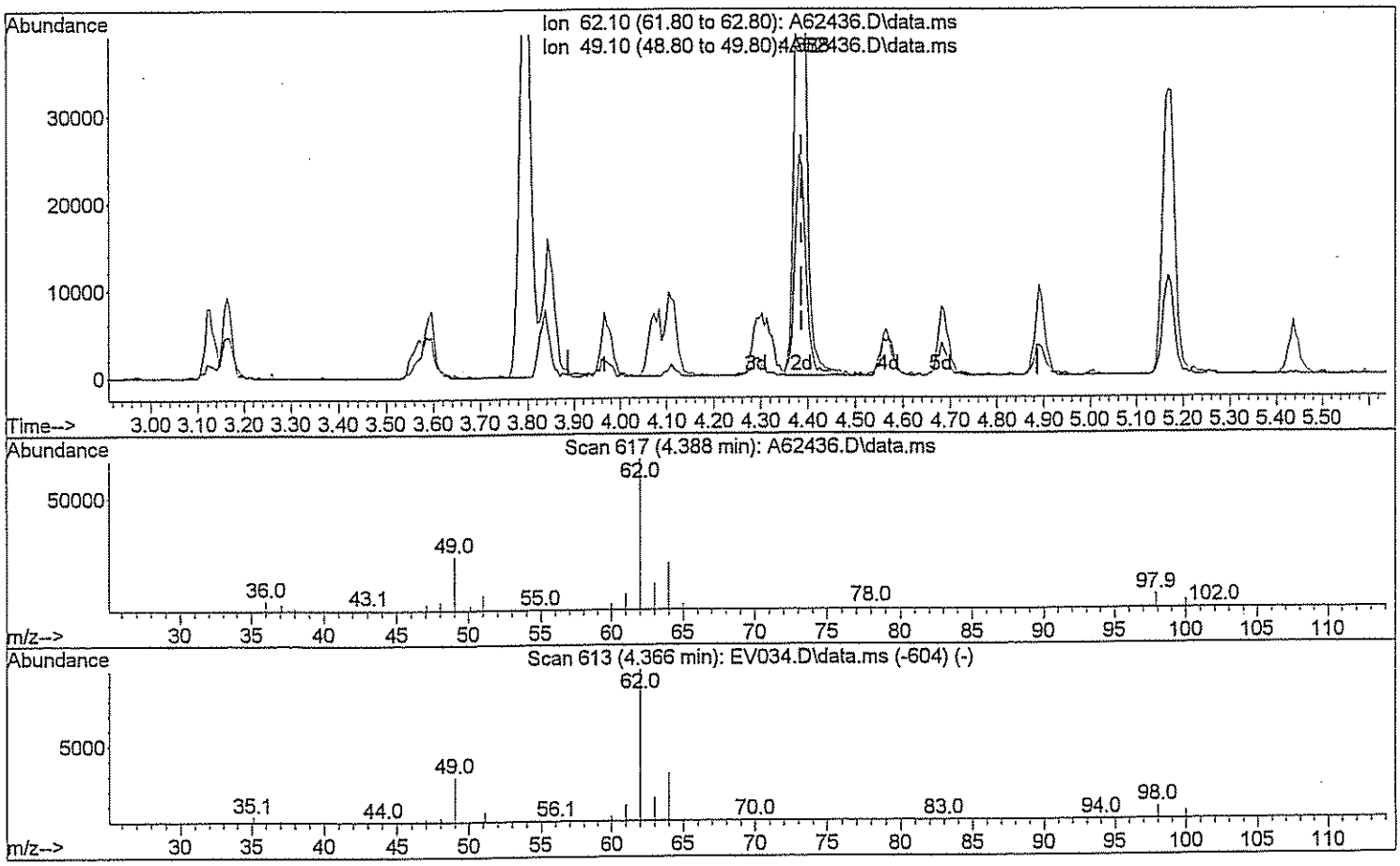
response 11829

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	27.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 13:08:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62436.D\data.ms

(45) 1,2-Dichloroethane

4.388min (-0.000) 48.05 ug/L m JN 3/23/09

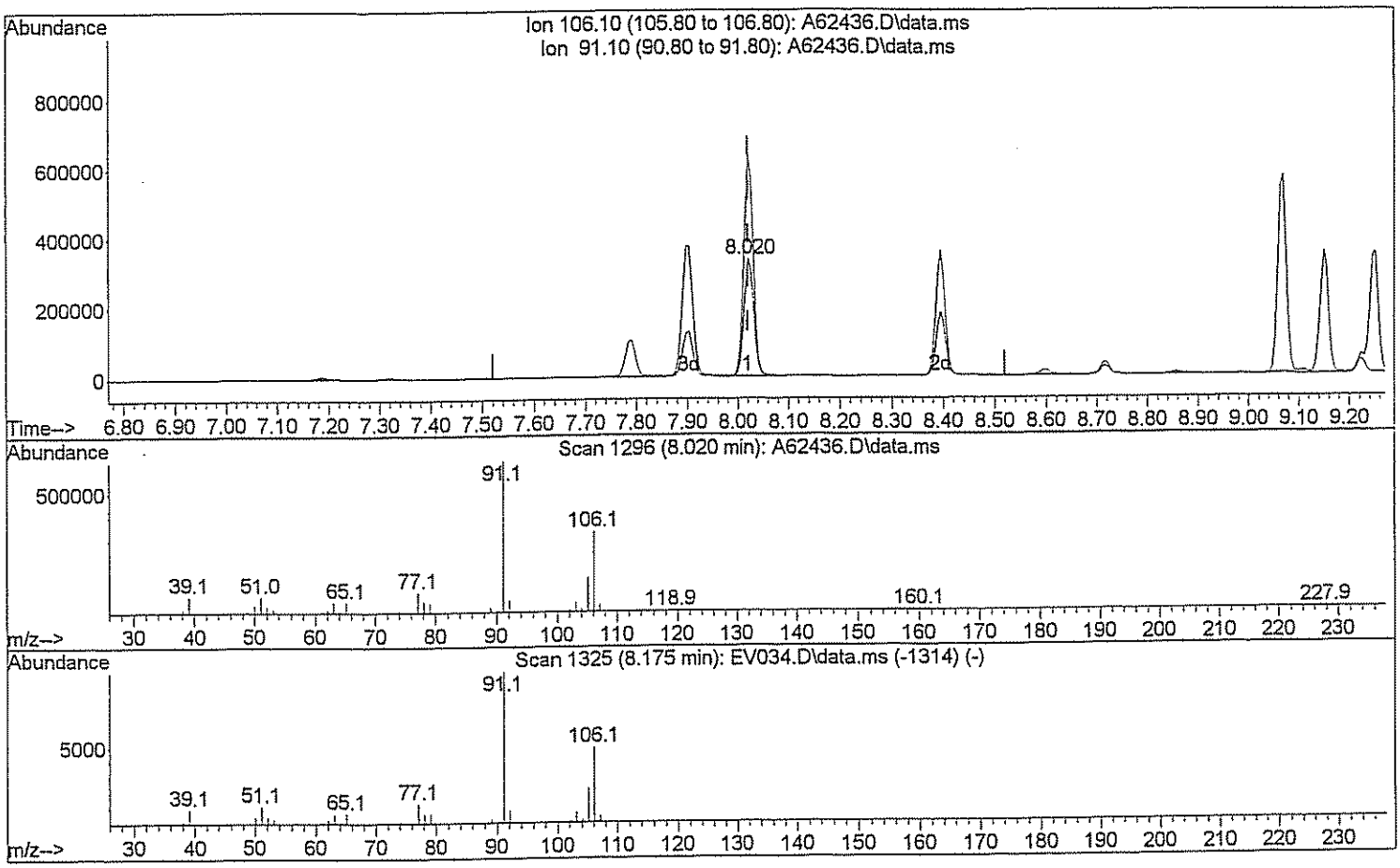
response 111189

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.94#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 13:08:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62436.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 97.78 ug/L

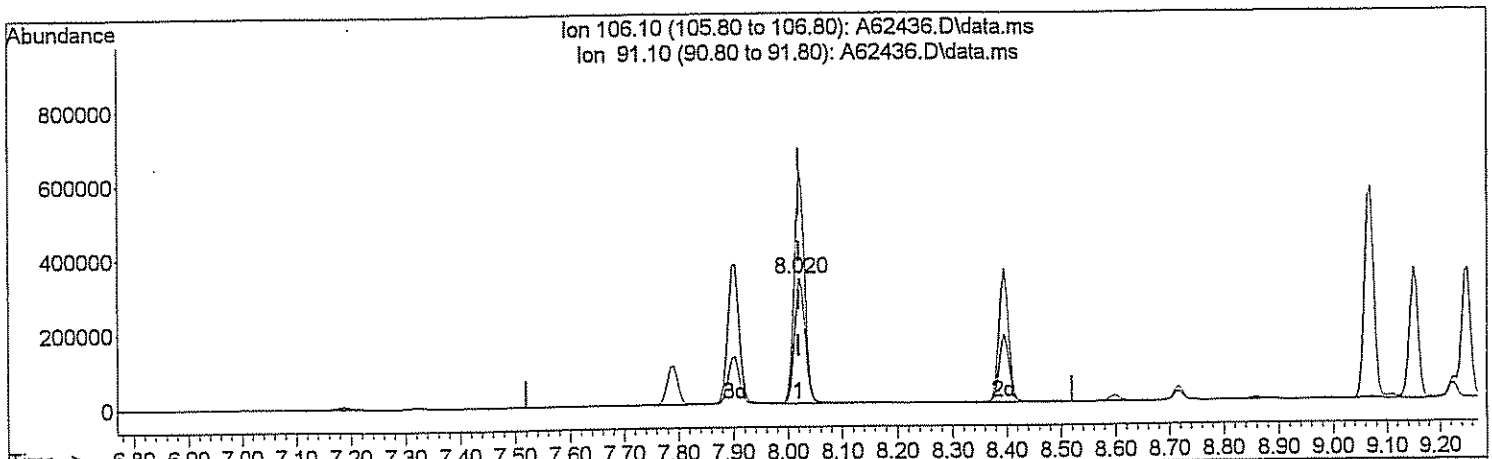
response 456101

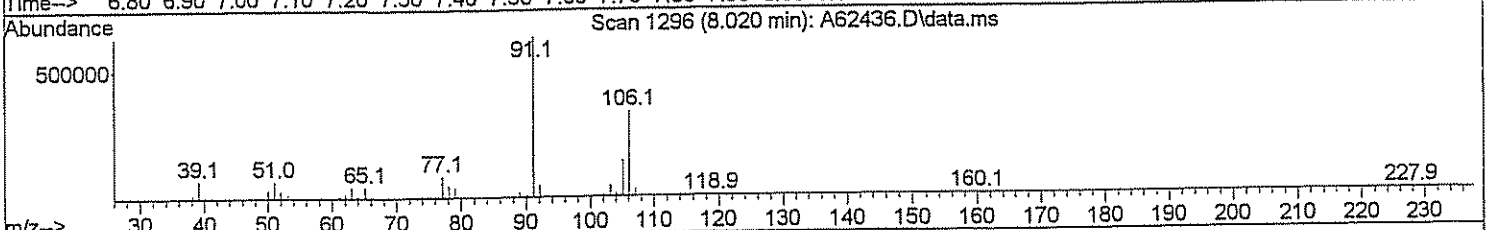
Ion	Exp%	Act%
106.10	100	100
91.10	208.40	186.77
0.00	0.00	0.00
0.00	0.00	0.00

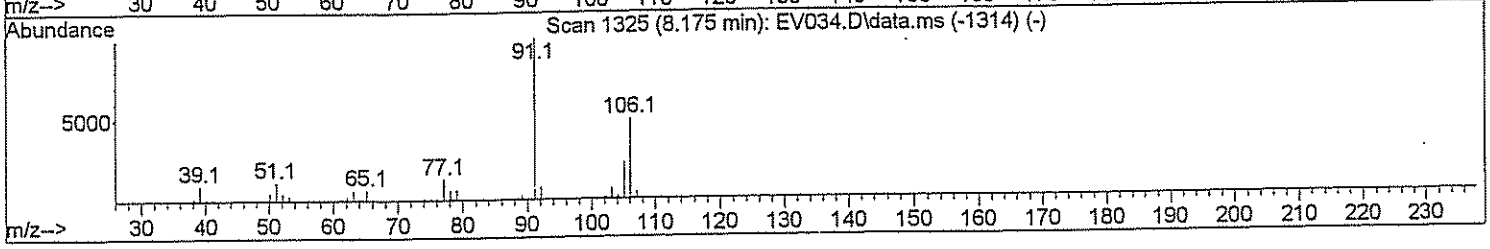
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62436.D
Acq On : 23 Mar 2009 12:53
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 23 13:08:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration







TIC: A62436.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 147.45 ug/L m SM 3/23/09

response 687816

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	123.85#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	109	0.00
2		Dichlorodifluoromethane	0.089	0.089	0.0	99	0.00
3		Chloromethane	0.174	0.140	19.5	105	0.00
4		Vinyl chloride	0.207	0.170	17.9	88	0.00
5		Bromomethane	0.115	0.360	-213.0#	502#	0.00
6		Chloroethane	0.145	0.168	-15.9	129	0.00
7		Trichlorofluoromethane	0.256	0.272	-6.3	102	0.00
8		Ethyl Ether	0.178	0.159	10.7	92	0.00
9		Freon 113	0.158	0.174	-10.1	115	0.00
10		Acrolein	0.036	0.028	22.2#	86	0.00
11		Tert-Butyl alcohol	0.020	0.018	10.0	74	0.00
12		1,1-Dichloroethene	0.182	0.166	8.8	96	0.00
13		Iodomethane	0.211	0.258	-22.3#	309#	0.00
14		Acetonitrile	0.108	0.153	-41.7#	135	0.00
15		Methylene chloride	0.252	0.207	17.9	100	0.00
16		Trans-1,2-dichloroethene	0.209	0.186	11.0	92	0.00
17		Isopropyl ether	0.812	0.760	6.4	95	0.00
18		1,1-Dichloroethane	0.374	0.376	-0.5	100	0.00
19		Acetone	0.095	0.063	33.7#	75	0.00
20		Methyl Acetate	0.186	0.179	3.8	76	0.00
21		MTBE	0.545	0.548	-0.6	98	0.00
22		Carbon disulfide	0.679	0.519	23.6#	93	0.00
23		Allyl Chloride	0.000	0.000	0.0	133	0.00
24		Acrylonitrile	0.063	0.060	4.8	99	0.00
25		Chloroprene	0.357	0.314	12.0	97	0.00
26	T	n-Heptane	0.183	0.009	95.1#	6#	0.12
27		2,2-Dichloropropane	0.313	0.296	5.4	97	0.00
28		Cis-1,2-dichloroethene	0.253	0.225	11.1	97	0.00
29		1,2-dichloroethene(total)	0.268	0.212	20.9#	95	0.82#
30		Propionitrile	0.031	0.027	12.9	82	0.00
31		Bromochloromethane	0.109	0.123	-12.8	113	0.00
32		Tetrahydrofuran	0.051	0.045	11.8	89	0.00
33		Chloroform	0.426	0.410	3.8	112	0.00
34		Cyclohexane	0.392	0.323	17.6	98	0.00
35		1,1,1-Trichloroethane	0.318	0.323	-1.6	105	0.00
36		Carbon tetrachloride	0.272	0.288	-5.9	108	0.00
37		Methacrylonitrile	0.170	0.156	8.2	97	0.00
38		Methylcyclohexane	0.338	0.328	3.0	107	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	61	-0.18
40	SS	1,2-Dichloroethane-d4	0.266	0.275	-3.4	113	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	117	0.00
42		2-Butanone	0.163	0.124	23.9#	78	0.00
43		1,1-Dichloropropene	0.339	0.308	9.1	97	0.00
44		Vinyl Acetate	0.381	0.271	28.9#	79	0.00
45		Benzene	1.058	0.947	10.5	99	0.00
46		1,2-Dichloroethane	0.332	0.293	11.7	95	0.00
47		Trichloroethene	0.272	0.233	14.3	97	0.00
48		1,2-Dichloropropane	0.271	0.247	8.9	96	0.00
49		Methyl methacrylate	0.196	0.188	4.1	109	0.00
50		Dibromomethane	0.167	0.174	-4.2	115	0.00
51		Bromodichloromethane	0.354	0.394	-11.3	122	0.00
52		2-Chloroethylvinyl ether	0.108	0.045	58.3#	32#	0.00
53		Cis-1,3-dichloropropene	0.427	0.468	-9.6	116	0.00
54	SS	Toluene-d8	1.159	1.393	-20.2#	140	0.00
55		Toluene	0.694	0.783	-12.8	123	0.00
56		Trans-1,3-dichloropropene	0.387	0.411	-6.2	111	0.00
57		Ethyl methacrylate	0.347	0.384	-10.7	123	0.00
58		1,1,2-Trichloroethane	0.208	0.232	-11.5	123	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	146	0.00
60		4-Methyl-2-pentanone	0.292	0.238	18.5	108	0.00
61		2-Hexanone	0.210	0.168	20.0	103	0.00
62		Tetrachloroethene	0.288	0.307	-6.6	146	0.00
63		1,3-Dichloropropane	0.416	0.385	7.5	124	0.00
64		Dibromochloromethane	0.301	0.293	2.7	132	0.00
65		1,2-Dibromoethane	0.257	0.226	12.1	122	0.00
66		1-Chlorohexane	0.432	0.369	14.6	123	0.00
67		Chlorobenzene	0.848	0.814	4.0	131	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.304	0.0	135	0.00
69		Ethylbenzene	1.451	1.324	8.8	128	0.00
70		m,p-Xylene	0.570	0.557	2.3	131	0.00
71		o-Xylene	0.578	0.535	7.4	130	0.00
72		Xylene (Total)	0.586	0.551	6.0	131	0.00
73		Styrene	0.960	0.902	6.0	128	0.00
74		Bromoform	0.187	0.189	-1.1	130	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.178	4.1	132	0.00
76	SS	4-Bromofluorobenzene	0.471	0.478	-1.5	146	0.00
77		Bromobenzene	0.336	0.355	-5.7	145	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.293	11.2	120	0.00
79		1,2,3-Trichloropropane	0.098	0.092	6.1	128	0.00
80		n-Propylbenzene	1.700	1.597	6.1	130	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.057	31.3#	76	0.00
82		2-Chlorotoluene	0.361	0.359	0.6	136	0.00
83		4-Chlorotoluene	0.374	0.380	-1.6	142	0.00
84		1,3,5-Trimethylbenzene	1.207	1.154	4.4	131	0.00
85		Tert-butylbenzene	1.049	1.054	-0.5	137	0.00
86		Pentachloroethane	0.000	0.000	0.0	139	0.00
87		1,2,4-Trimethylbenzene	1.254	1.211	3.4	134	0.00
88		Sec-Butylbenzene	1.607	1.579	1.7	133	0.00
89		1,3-Dichlorobenzene	0.706	0.739	-4.7	145	0.00
90		4-Isopropyltoluene	1.367	1.412	-3.3	136	0.00
91		1,4-Dichlorobenzene	0.708	0.738	-4.2	143	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.514	-11.3	161#	0.00
93		1,2-Dichlorobenzene	0.674	0.680	-0.9	144	0.00
94		n-Butylbenzene	1.349	1.235	8.5	129	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.048	15.8	114	0.00
96		1,2,4-Trichlorobenzene	0.409	0.418	-2.2	146	0.00
97		Hexachlorobutadiene	0.190	0.203	-6.8	150	0.00
98		Naphthalene	0.975	0.927	4.9	122	0.00
99		1,2,3-Trichlorobenzene	0.342	0.358	-4.7	144	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	563188	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.677	114	492839	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	584106	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	154901	51.77	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.54%				
54) Toluene-d8	6.142	98	686647	60.13	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 120.26%#				
76) 4-Bromofluorobenzene	8.881	95	279134	50.70	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 101.40%				
92) 1,2-Dichlorobenzene-d4	10.085	152	300015	55.56	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 111.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.189	85	49997	50.10	ug/L		98
3) Chloromethane	1.328	50	78907	40.19	ug/L		99
4) Vinyl chloride	1.397	62	95479	40.97	ug/L		97
5) Bromomethane	1.617	94	202942	134.17	ug/L		93
6) Chloroethane	1.686	64	94832	57.96	ug/L		98
7) Trichlorofluoromethane	1.836	101	153156	45.39	ug/L		99
8) Ethyl Ether	2.045	59	89784	44.82	ug/L		94
9) Freon 113	2.178	101	98210	55.10	ug/L		94
10) Acrolein	2.189	56	79518	197.41	ug/L	#	74
11) Tert-Butyl alcohol	2.676	59	198564	868.70	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	93237	45.58	ug/L		94
13) Iodomethane	2.333	142	145529	61.17	ug/L		99
14) Acetonitrile	2.483	40	863246	578.79	ug/L	#	1
15) Methylene chloride	2.596	84	116695	44.20	ug/L		92
16) Trans-1,2-dichloroethene	2.756	96	104775	44.60	ug/L		94
17) Isopropyl ether	3.093	45	427779	46.80	ug/L		99
18) 1,1-Dichloroethane	3.109	63	211874	50.32	ug/L		98
19) Acetone	2.296	43	70764	73.76	ug/L		94
20) Methyl Acetate	4.259	43	100664	34.81	ug/L	#	100
21) MTBE	2.740	73	308825	50.34	ug/L		100
22) Carbon disulfide	2.355	76	292311	41.24	ug/L		100
24) Acrylonitrile	2.831	53	170303	239.00	ug/L		99
25) Chloroprene	3.147	53	177065	44.02	ug/L		92
26) n-Heptane	4.559	71	4973	2.42	ug/L	#	1
27) 2,2-Dichloropropane	3.553	77	166717	47.32	ug/L	#	73
28) Cis-1,2-dichloroethene	3.580	96	126502	44.37	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	238536m	79.03	ug/L		
30) Propionitrile	3.735	54	149379	424.55	ug/L		99
31) Bromochloromethane	3.783	128	69103	56.18	ug/L	#	73
32) Tetrahydrofuran	3.789	72	25411	43.99	ug/L	#	22
33) Chloroform	3.837	83	230832	48.08	ug/L		99
34) Cyclohexane	3.933	56	182003	43.34	ug/L		88
35) 1,1,1-Trichloroethane	3.960	97	181787	50.73	ug/L		97
36) Carbon tetrachloride	4.061	117	162088	52.83	ug/L		94
37) Methacrylonitrile	3.826	41	879957	459.60	ug/L	#	18
38) Methylcyclohexane	4.992	83	184641	48.46	ug/L		89
39) Isobutyl Alcohol	4.259	43	100664	602.86	ug/L		89
42) 2-Butanone	3.617	43	122408	76.14	ug/L		97
43) 1,1-Dichloropropene	4.099	75	151759	45.42	ug/L		99
44) Vinyl Acetate	3.136	43	133439	35.50	ug/L		99
45) Benzene	4.281	78	466786	44.75	ug/L		100
46) 1,2-Dichloroethane	4.377	62	144622	44.22	ug/L	#	85
47) Trichloroethene	4.885	95	114694	42.82	ug/L	#	76
48) 1,2-Dichloropropane	5.163	63	121533	45.47	ug/L		100
49) Methyl methacrylate	5.265	69	92613	47.85	ug/L		97
50) Dibromomethane	5.281	93	85579	52.05	ug/L		100
51) Bromodichloromethane	5.431	83	194012	55.60	ug/L		100
52) 2-Chloroethylvinyl ether	5.779	63	88317	82.99	ug/L		96
53) Cis-1,3-dichloropropene	5.918	75	230572	54.83	ug/L		99
55) Toluene	6.217	92	385871	56.44	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	202720	53.21	ug/L		98
57) Ethyl methacrylate	6.624	69	189113	55.28	ug/L		99
58) 1,1,2-Trichloroethane	6.774	83	114521	55.82	ug/L		93
60) 4-Methyl-2-pentanone	6.094	43	277517	81.47	ug/L		95
61) 2-Hexanone	7.063	43	195853	79.65	ug/L		97
62) Tetrachloroethene	6.795	166	179033	53.17	ug/L		99
63) 1,3-Dichloropropane	6.972	76	224614	46.22	ug/L		87
64) Dibromochloromethane	7.186	129	170873	48.57	ug/L		96
65) 1,2-Dibromoethane	7.314	107	131961	43.96	ug/L		98
66) 1-Chlorohexane	7.785	91	215622	42.69	ug/L		94
67) Chlorobenzene	7.806	112	475493	48.01	ug/L		89
68) 1,1,1,2-Tetrachloroethane	7.908	131	177595	50.07	ug/L		99
69) Ethylbenzene	7.897	91	773462	45.62	ug/L		97
70) m,p-Xylene	8.020	106	650587	97.69	ug/L		87
71) o-Xylene	8.395	106	312461	46.31	ug/L		91
72) Xylene (Total)	8.020	106	965561m	141.14	ug/L		
73) Styrene	8.421	104	527143	47.01	ug/L		94
74) Bromoform	8.598	173	110599	50.69	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

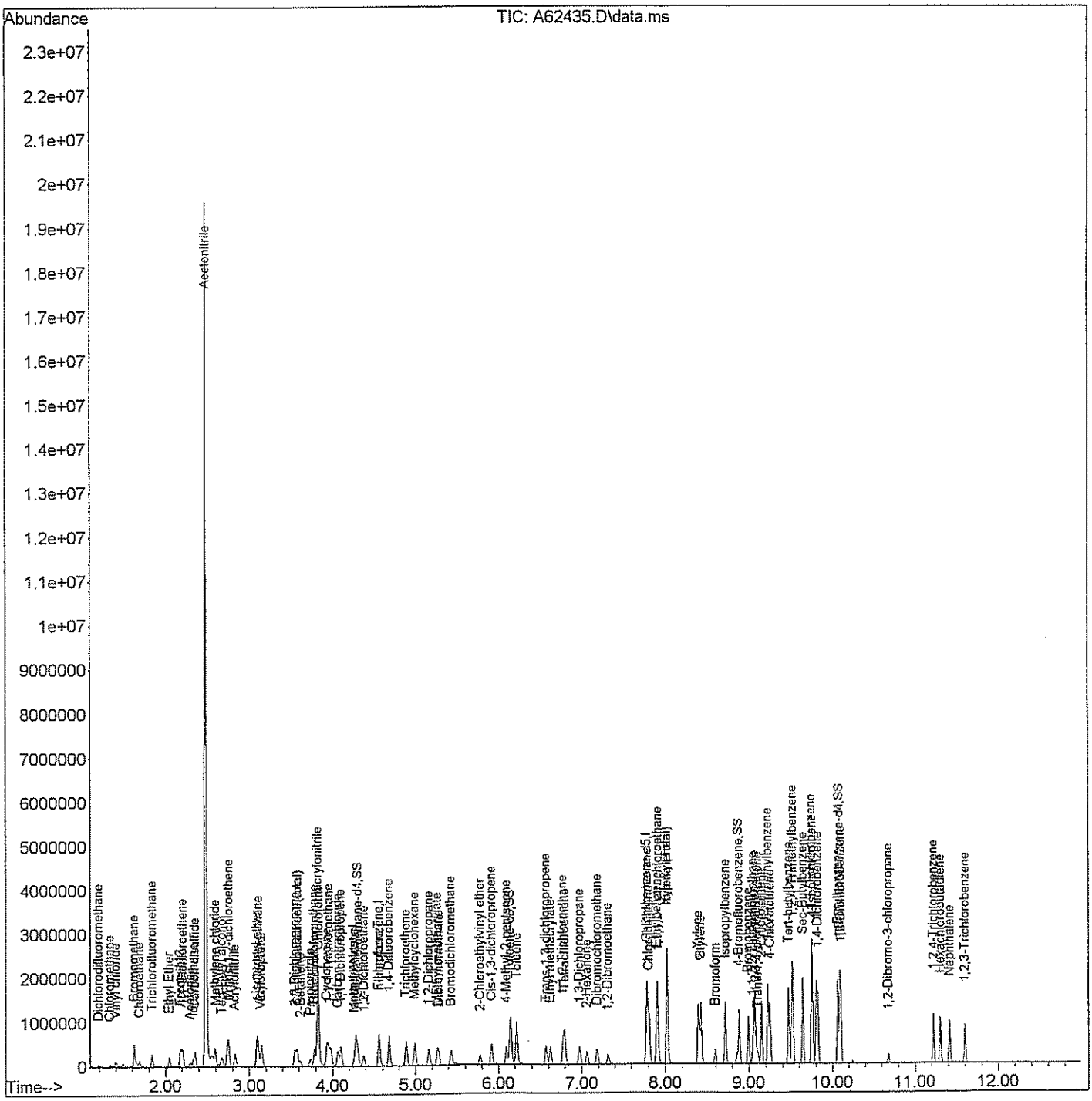
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	688169	47.96	ug/L		98
77) Bromobenzene	8.994	156	207337	52.78	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	171433	44.43	ug/L		97
79) 1,2,3-Trichloropropane	9.085	110	53719	46.87	ug/L		99
80) n-Propylbenzene	9.069	91	933016	46.98	ug/L		97
81) Trans-1,4-dichloro-2-b...	9.106	53	33421	34.72	ug/L	#	25
82) 2-Chlorotoluene	9.149	126	209405	49.72	ug/L		88
83) 4-Chlorotoluene	9.251	126	222149	50.82	ug/L		78
84) 1,3,5-Trimethylbenzene	9.224	105	674070	47.81	ug/L		92
85) Tert-butylbenzene	9.470	119	615383	50.24	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	707624	48.31	ug/L		92
88) Sec-Butylbenzene	9.641	105	922436	49.13	ug/L		96
89) 1,3-Dichlorobenzene	9.748	146	431615	52.36	ug/L		99
90) 4-Isopropyltoluene	9.759	119	824842	51.67	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	430952	52.10	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	396917	50.41	ug/L		98
94) n-Butylbenzene	10.064	91	721328	45.78	ug/L		90
95) 1,2-Dibromo-3-chloropr...	10.679	75	28279	42.80	ug/L	#	69
96) 1,2,4-Trichlorobenzene	11.225	180	244199	51.11	ug/L		99
97) Hexachlorobutadiene	11.305	225	118341	53.18	ug/L		97
98) Naphthalene	11.412	128	541601	47.56	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	208946	52.24	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

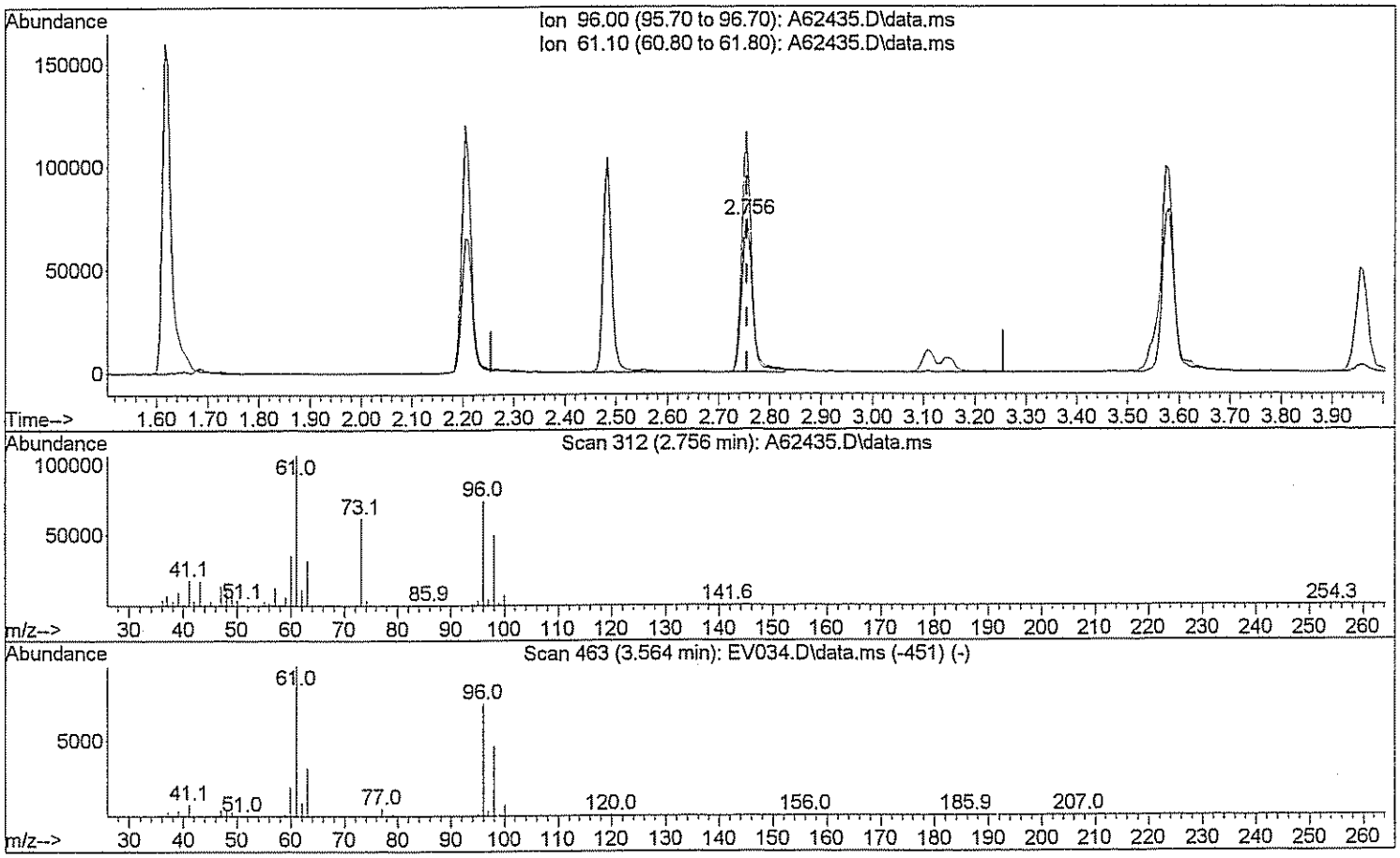
Quant Time: Mar 24 13:02:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 12:56:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62435.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 34.72 ug/L

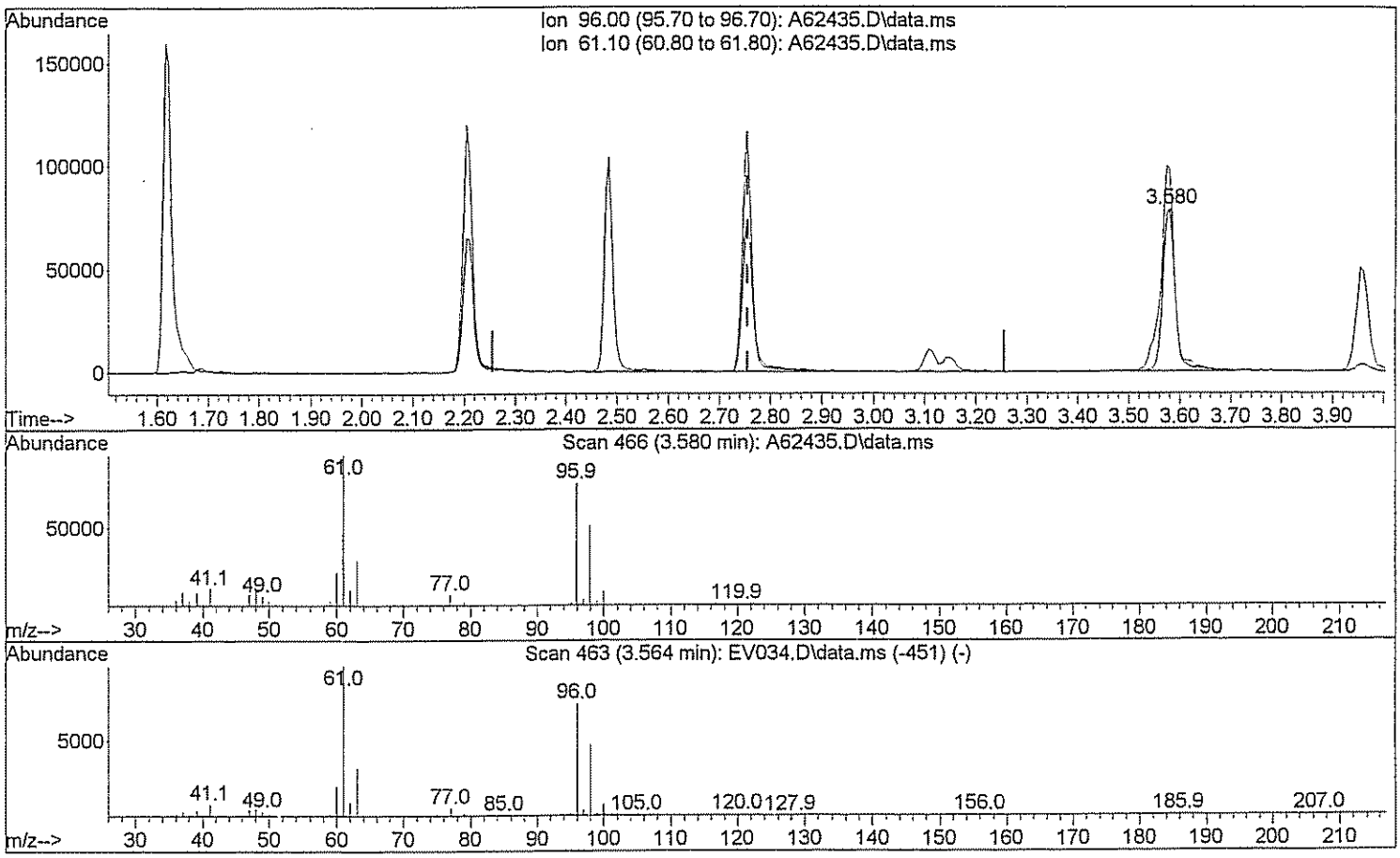
response 104775

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	147.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 12:56:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62435.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.824) 79.03 ug/L m DN 3/24/09

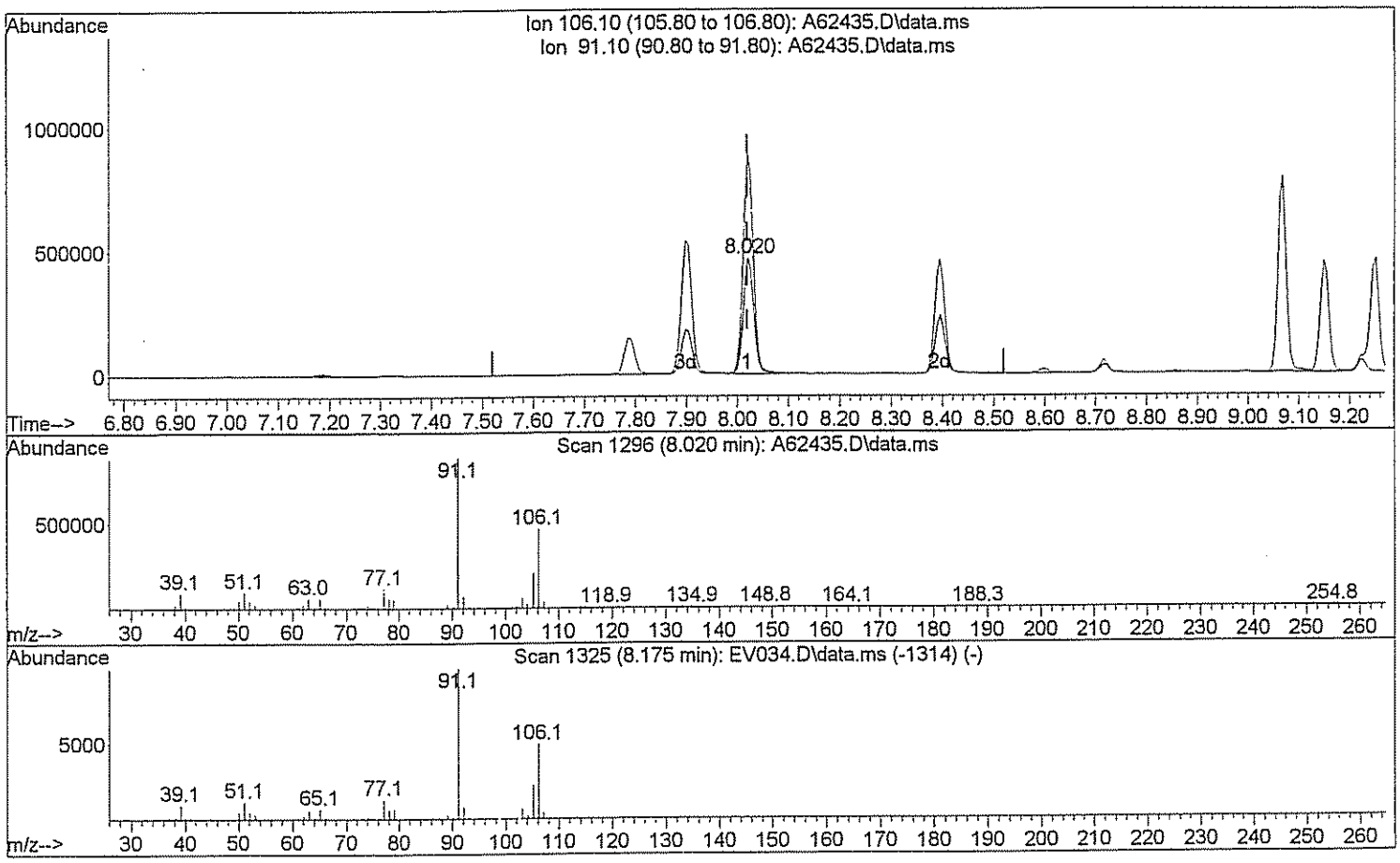
response 238536

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	64.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 12:56:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62435.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 95.10 ug/L

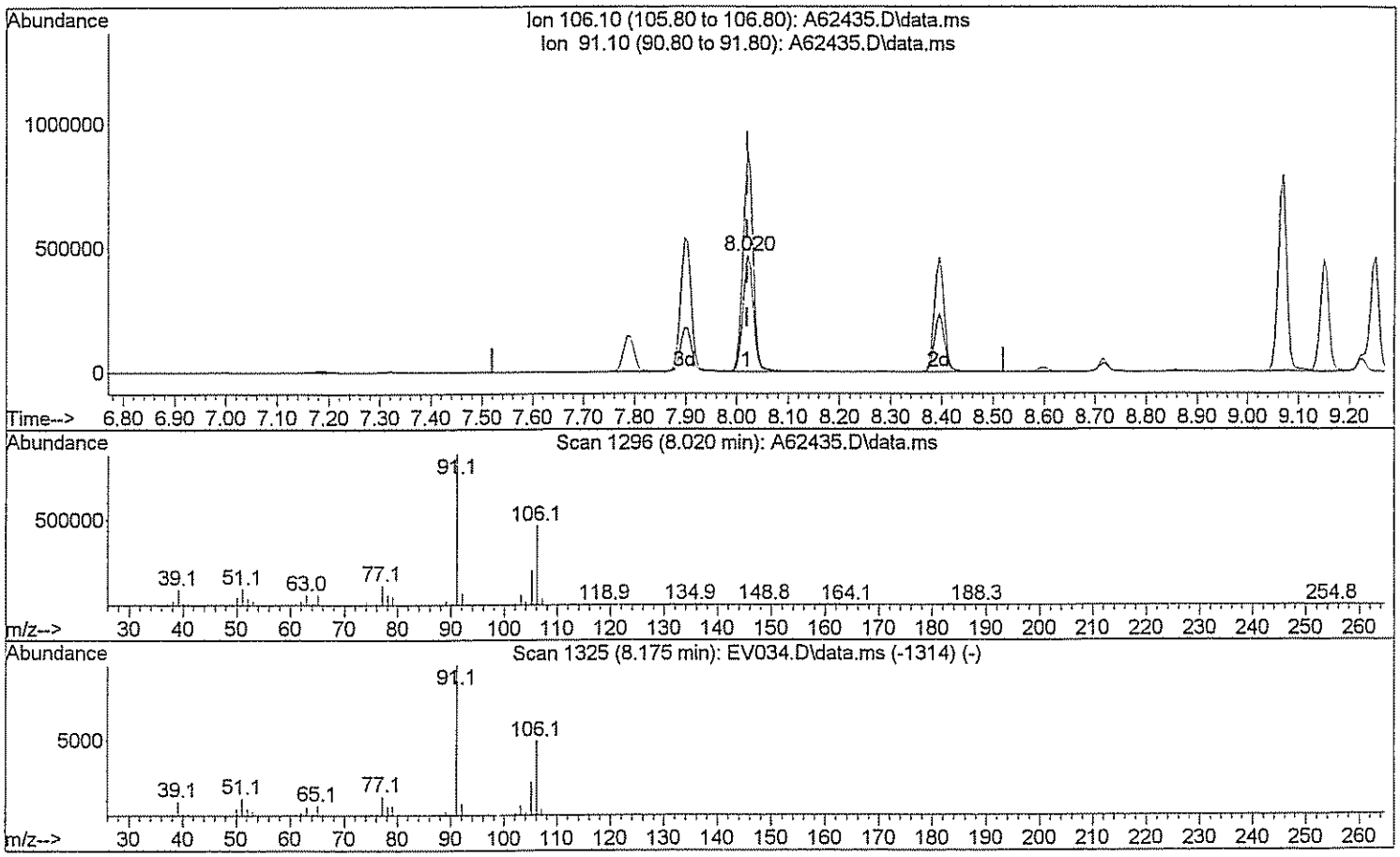
response 650587

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62435.D
Acq On : 23 Mar 2009 12:32
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 23 12:56:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62435.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 141.14 ug/L m DN 3/24/09

response 965561

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	127.13#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00
2		Dichlorodifluoromethane	0.089	0.089	0.0	82	0.00
3		Chloromethane	0.174	0.153	12.1	96	0.00
4		Vinyl chloride	0.207	0.189	8.7	81	0.00
5		Bromomethane	0.115	0.335	-191.3#	388#	0.00
6		Chloroethane	0.145	0.135	6.9	86	0.00
7		Trichlorofluoromethane	0.256	0.297	-16.0	93	0.00
8		Ethyl Ether	0.178	0.169	5.1	81	0.00
9		Freon 113	0.158	0.196	-24.1#	108	0.00
10		Acrolein	0.036	0.030	16.7	75	0.00
11		Tert-Butyl alcohol	0.020	0.018	10.0	61	0.00
12		1,1-Dichloroethene	0.182	0.176	3.3	85	0.00
13		Iodomethane	0.211	0.334	-58.3#	332#	0.00
14		Acetonitrile	0.108	0.160	-48.1#	117	0.00
15		Methylene chloride	0.252	0.212	15.9	86	0.00
16		Trans-1,2-dichloroethene	0.209	0.203	2.9	83	0.00
17		Isopropyl ether	0.812	0.778	4.2	81	0.00
18		1,1-Dichloroethane	0.374	0.407	-8.8	90	0.00
19		Acetone	0.095	0.066	30.5#	65	0.00
20		Methyl Acetate	0.186	0.179	3.8	63	0.00
21		MTBE	0.545	0.573	-5.1	85	0.00
22		Carbon disulfide	0.679	0.526	22.5#	78	0.00
23		Allyl Chloride	0.000	0.000	0.0	114	0.00
24		Acrylonitrile	0.063	0.062	1.6	83	0.00
25		Chloroprene	0.357	0.334	6.4	85	0.00
26	T	n-Heptane	0.183	0.009	95.1#	5#	0.11
27		2,2-Dichloropropane	0.313	0.321	-2.6	87	0.00
28		Cis-1,2-dichloroethene	0.253	0.236	6.7	84	0.00
29		1,2-dichloroethene(total)	0.268	0.226	15.7	84	0.00
30		Propionitrile	0.031	0.028	9.7	73	0.00
31		Bromochloromethane	0.109	0.134	-22.9#	102	0.00
32		Tetrahydrofuran	0.051	0.044	13.7	72	0.00
33		Chloroform	0.426	0.436	-2.3	99	0.00
34		Cyclohexane	0.392	0.342	12.8	86	0.00
35		1,1,1-Trichloroethane	0.318	0.350	-10.1	95	0.00
36		Carbon tetrachloride	0.272	0.319	-17.3	99	0.00
37		Methacrylonitrile	0.170	0.165	2.9	86	0.00
38		Methylcyclohexane	0.338	0.344	-1.8	93	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	51	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.283	-6.4	97	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
42		2-Butanone	0.163	0.134	17.8	71	0.00
43		1,1-Dichloropropene	0.339	0.328	3.2	87	0.00
44		Vinyl Acetate	0.381	0.304	20.2#	75	0.00
45		Benzene	1.058	0.971	8.2	85	0.00
46		1,2-Dichloroethane	0.332	0.319	3.9	87	0.00
47		Trichloroethene	0.272	0.256	5.9	90	0.00
48		1,2-Dichloropropane	0.271	0.256	5.5	84	0.00
49		Methyl methacrylate	0.196	0.164	16.3	80	0.00
50		Dibromomethane	0.167	0.166	0.6	93	0.00
51		Bromodichloromethane	0.354	0.388	-9.6	101	0.00
52		2-Chloroethylvinyl ether	0.108	0.048	55.6#	29#	0.00
53		Cis-1,3-dichloropropene	0.427	0.486	-13.8	102	0.00
54	SS	Toluene-d8	1.159	1.359	-17.3	115	0.00
55		Toluene	0.694	0.825	-18.9	109	0.00
56		Trans-1,3-dichloropropene	0.387	0.421	-8.8	96	0.00
57		Ethyl methacrylate	0.347	0.384	-10.7	103	0.00
58		1,1,2-Trichloroethane	0.208	0.238	-14.4	106	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	123	0.00
60		4-Methyl-2-pentanone	0.292	0.243	16.8	93	0.00
61		2-Hexanone	0.210	0.168	20.0	87	0.00
62		Tetrachloroethene	0.288	0.327	-13.5	132	0.00
63		1,3-Dichloropropane	0.416	0.391	6.0	106	0.00
64		Dibromochloromethane	0.301	0.307	-2.0	117	0.00
65		1,2-Dibromoethane	0.257	0.238	7.4	108	0.00
66		1-Chlorohexane	0.432	0.379	12.3	106	0.00
67		Chlorobenzene	0.848	0.850	-0.2	115	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.332	-9.2	124	0.00
69		Ethylbenzene	1.451	1.351	6.9	110	0.00
70		m,p-Xylene	0.570	0.578	-1.4	115	0.00
71		o-Xylene	0.578	0.562	2.8	115	0.00
72		Xylene (Total)	0.586	0.573	2.2	115	0.00
73		Styrene	0.960	0.958	0.2	115	0.00
74		Bromoform	0.187	0.196	-4.8	114	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.254	-2.1	119	0.00
76	SS	4-Bromofluorobenzene	0.471	0.468	0.6	120	0.00
77		Bromobenzene	0.336	0.378	-12.5	131	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.299	9.4	103	0.00
79		1,2,3-Trichloropropane	0.098	0.095	3.1	112	0.00
80		n-Propylbenzene	1.700	1.660	2.4	114	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.065	21.7#	73	0.00
82		2-Chlorotoluene	0.361	0.384	-6.4	123	0.00
83		4-Chlorotoluene	0.374	0.406	-8.6	128	0.00
84		1,3,5-Trimethylbenzene	1.207	1.236	-2.4	119	0.00
85		Tert-butylbenzene	1.049	1.127	-7.4	123	0.00
86		Pentachloroethane	0.000	0.000	0.0	128	0.00
87		1,2,4-Trimethylbenzene	1.254	1.311	-4.5	122	0.00
88		Sec-Butylbenzene	1.607	1.698	-5.7	121	0.00
89		1,3-Dichlorobenzene	0.706	0.819	-16.0	136	0.00
90		4-Isopropyltoluene	1.367	1.573	-15.1	128	0.00
91		1,4-Dichlorobenzene	0.708	0.810	-14.4	133	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.535	-15.8	141	0.00
93		1,2-Dichlorobenzene	0.674	0.758	-12.5	135	0.00
94		n-Butylbenzene	1.349	1.330	1.4	117	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.049	14.0	97	0.00
96		1,2,4-Trichlorobenzene	0.409	0.463	-13.2	136	0.00
97		Hexachlorobutadiene	0.190	0.223	-17.4	139	0.00
98		Naphthalene	0.975	0.977	-0.2	109	0.00
99		1,2,3-Trichlorobenzene	0.342	0.382	-11.7	129	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.554	96	468610	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.677	114	415116	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	492903	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	132556	53.25	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.50%				
54) Toluene-d8	6.142	98	564001	58.63	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 117.26%				
76) 4-Bromofluorobenzene	8.881	95	230475	49.61	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.22%				
92) 1,2-Dichlorobenzene-d4	10.085	152	263479	57.82	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.189	85	41601	50.10	ug/L		97
3) Chloromethane	1.333	50	71900	44.01	ug/L		99
4) Vinyl chloride	1.397	62	88778	45.78	ug/L		97
5) Bromomethane	1.617	94	157080	128.29	ug/L		87
6) Chloroethane	1.686	64	63060	46.32	ug/L		100
7) Trichlorofluoromethane	1.836	101	139314	49.50	ug/L		96
8) Ethyl Ether	2.045	59	79217	47.52	ug/L		95
9) Freon 113	2.178	101	92061	62.08	ug/L		98
10) Acrolein	2.189	56	69288	206.73	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	164327	864.02	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	82621	48.54	ug/L		92
13) Iodomethane	2.333	142	156342	78.98	ug/L		97
14) Acetonitrile	2.483	40	747875	601.28	ug/L	#	1
15) Methylene chloride	2.590	84	99388	45.20	ug/L		97
16) Trans-1,2-dichloroethene	2.751	96	95067	48.63	ug/L		88
17) Isopropyl ether	3.093	45	364682	47.95	ug/L		98
18) 1,1-Dichloroethane	3.109	63	190654	54.42	ug/L		97
19) Acetone	2.296	43	61459	76.95	ug/L		92
20) Methyl Acetate	4.265	43	83783	34.82	ug/L	#	100
21) MTBE	2.740	73	268611	52.62	ug/L		100
22) Carbon disulfide	2.355	76	246292	41.75	ug/L		100
24) Acrylonitrile	2.831	53	144108	243.06	ug/L		98
25) Chloroprene	3.147	53	156387	46.73	ug/L		91
26) n-Heptane	4.554	71	4023	2.35	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	150501	51.34	ug/L	#	73
28) Cis-1,2-dichloroethene	3.575	96	110501	46.58	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	211817m	84.35 ug/L		
30) Propionitrile	3.735	54	131724	449.93 ug/L		99
31) Bromochloromethane	3.783	128	62641	61.20 ug/L	#	70
32) Tetrahydrofuran	3.789	72	20774	43.22 ug/L	#	22
33) Chloroform	3.837	83	204178	51.11 ug/L		97
34) Cyclohexane	3.933	56	160400	45.95 ug/L		90
35) 1,1,1-Trichloroethane	3.960	97	163858	54.95 ug/L		98
36) Carbon tetrachloride	4.061	117	149310	58.49 ug/L		100
37) Methacrylonitrile	3.826	41	775044	486.51 ug/L	#	19
38) Methylcyclohexane	4.992	83	161255	50.86 ug/L		90
39) Isobutyl Alcohol	4.265	43	83783	603.03 ug/L		94
42) 2-Butanone	3.612	43	110977	81.95 ug/L		94
43) 1,1-Dichloropropene	4.099	75	136360	48.46 ug/L		100
44) Vinyl Acetate	3.136	43	126342	39.91 ug/L		99
45) Benzene	4.281	78	402999	45.87 ug/L		100
46) 1,2-Dichloroethane	4.377	62	132556	48.12 ug/L	#	83
47) Trichloroethene	4.885	95	106210	47.07 ug/L	#	79
48) 1,2-Dichloropropane	5.158	63	106442	47.28 ug/L		99
49) Methyl methacrylate	5.260	69	68166	41.81 ug/L		94
50) Dibromomethane	5.276	93	68924	49.77 ug/L		96
51) Bromodichloromethane	5.431	83	160961	54.77 ug/L	#	99
52) 2-Chloroethylvinyl ether	5.779	63	79765	88.99 ug/L		97
53) Cis-1,3-dichloropropene	5.918	75	201611	56.92 ug/L		100
55) Toluene	6.217	92	342372	59.45 ug/L		98
56) Trans-1,3-dichloropropene	6.570	75	174935	54.52 ug/L		97
57) Ethyl methacrylate	6.624	69	159466	55.34 ug/L		97
58) 1,1,2-Trichloroethane	6.774	83	98997	57.29 ug/L		97
60) 4-Methyl-2-pentanone	6.094	43	239580	83.35 ug/L		93
61) 2-Hexanone	7.063	43	165446	79.74 ug/L		96
62) Tetrachloroethene	6.795	166	161295	56.77 ug/L		97
63) 1,3-Dichloropropane	6.972	76	192499	46.94 ug/L		90
64) Dibromochloromethane	7.186	129	151490	51.02 ug/L		98
65) 1,2-Dibromoethane	7.314	107	117222	46.27 ug/L		100
66) 1-Chlorohexane	7.785	91	186745	43.81 ug/L		93
67) Chlorobenzene	7.806	112	418902	50.13 ug/L		88
68) 1,1,1,2-Tetrachloroethane	7.908	131	163834	54.74 ug/L		97
69) Ethylbenzene	7.897	91	666111	46.56 ug/L		97
70) m,p-Xylene	8.020	106	569519	101.34 ug/L		86
71) o-Xylene	8.395	106	277110	48.67 ug/L		90
72) Xylene (Total)	8.020	106	847820m	146.86 ug/L		
73) Styrene	8.421	104	471982	49.88 ug/L		97
74) Bromoform	8.598	173	96703	52.52 ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

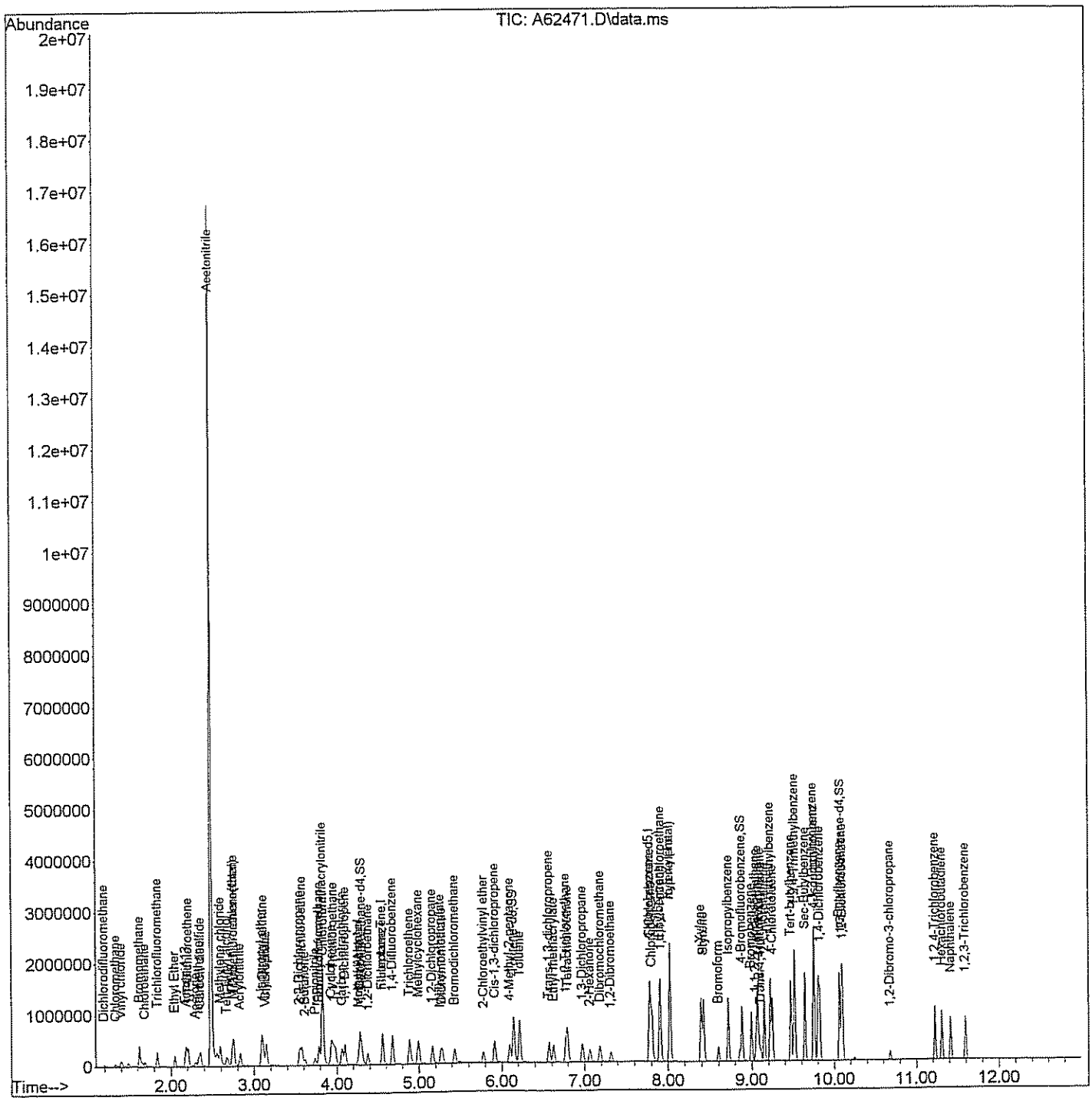
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	617894	51.03	ug/L		97
77) Bromobenzene	8.994	156	186427	56.24	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	147279	45.24	ug/L		97
79) 1,2,3-Trichloropropane	9.085	110	46891	48.49	ug/L		96
80) n-Propylbenzene	9.069	91	818294	48.83	ug/L		95
81) Trans-1,4-dichloro-2-b...	9.106	53	32015	39.56	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	189413	53.29	ug/L		88
83) 4-Chlorotoluene	9.251	126	200148	54.25	ug/L		76
84) 1,3,5-Trimethylbenzene	9.224	105	609324	51.22	ug/L		91
85) Tert-butylbenzene	9.470	119	555328	53.72	ug/L		93
87) 1,2,4-Trimethylbenzene	9.518	105	646364	52.30	ug/L		91
88) Sec-Butylbenzene	9.641	105	837078	52.84	ug/L		94
89) 1,3-Dichlorobenzene	9.748	146	403865	58.06	ug/L		100
90) 4-Isopropyltoluene	9.759	119	775400	57.55	ug/L		96
91) 1,4-Dichlorobenzene	9.823	146	399412	57.22	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	373676	56.24	ug/L		100
94) n-Butylbenzene	10.058	91	655390	49.29	ug/L	#	89
95) 1,2-Dibromo-3-chloropr...	10.679	75	23968	42.99	ug/L	#	65
96) 1,2,4-Trichlorobenzene	11.225	180	228199	56.60	ug/L		98
97) Hexachlorobutadiene	11.305	225	109949	58.56	ug/L		97
98) Naphthalene	11.412	128	481680	50.13	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	188085	55.72	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

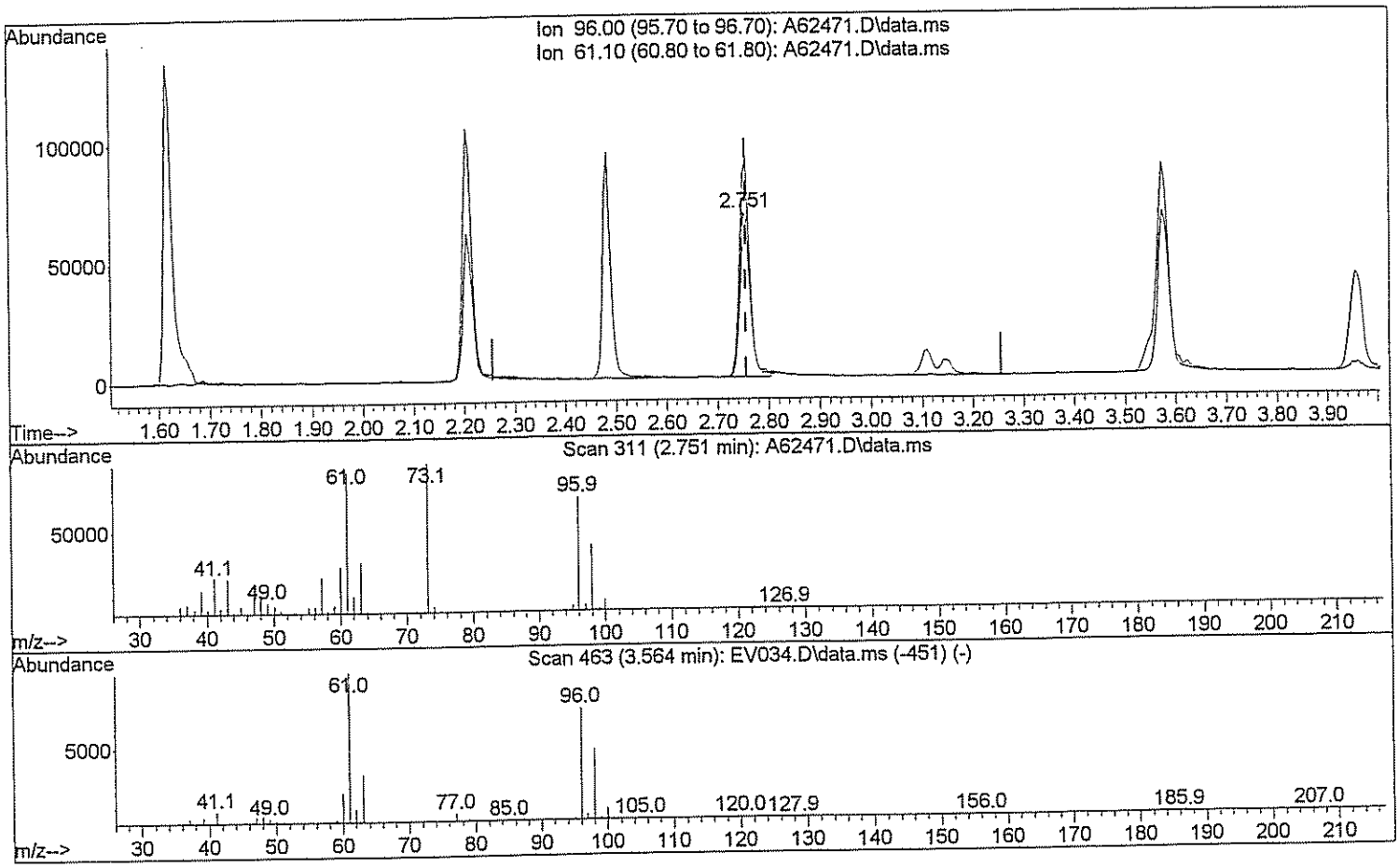
Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 09:42:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62471.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 37.86 ug/L

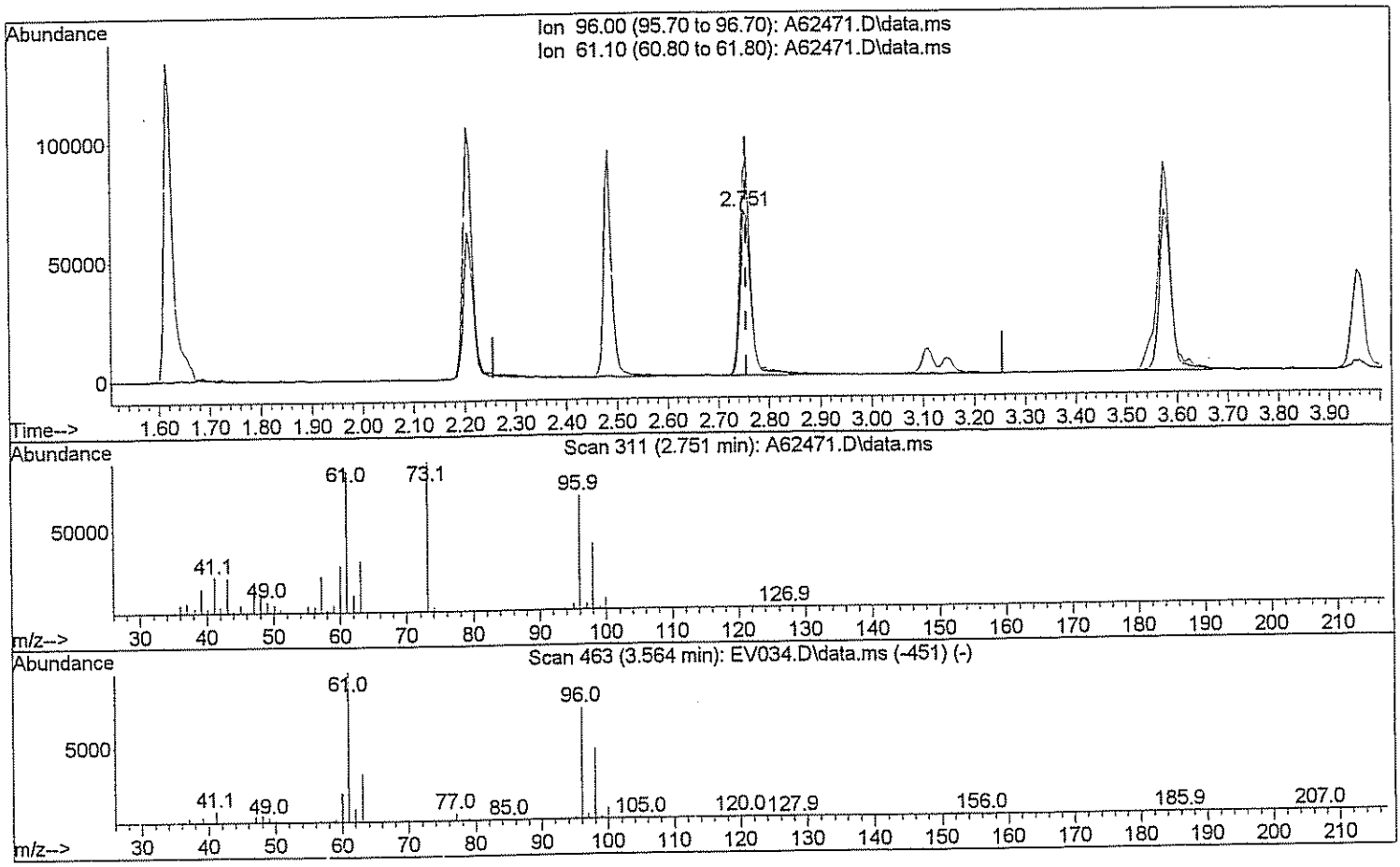
response 95067

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 09:42:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62471.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 84.35 ug/L m SW 3/24/09

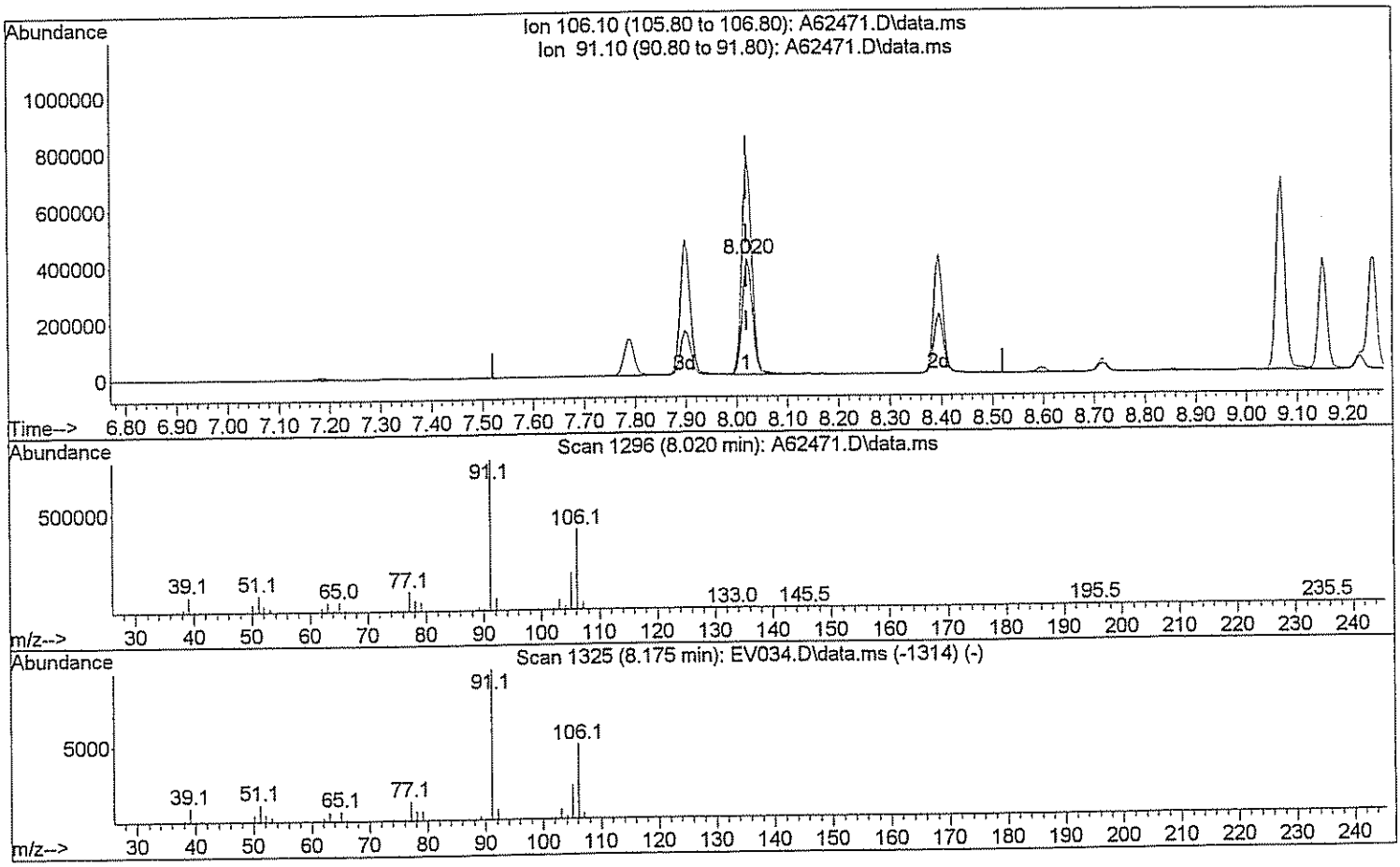
response 211817

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	62.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 09:42:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62471.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 98.65 ug/L

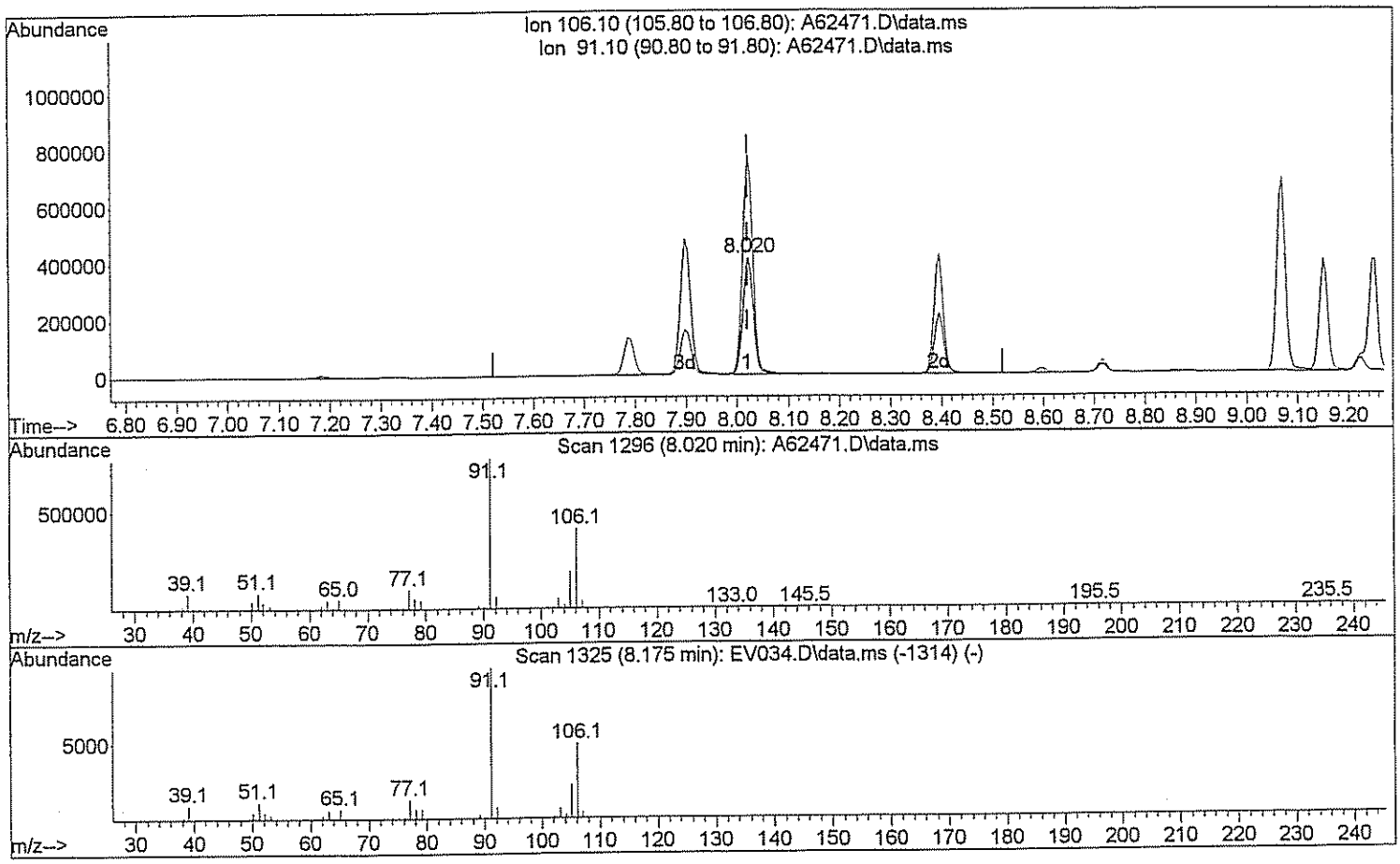
response 569519

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	187.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 09:42:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62471.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 146.86 ug/L m DM 3/24/09

response 847820

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.86#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:01:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	96	0.00
2		Dichlorodifluoromethane	0.089	0.086	3.4	85	0.00
3		Chloromethane	0.174	0.145	16.7	96	0.00
4		Vinyl chloride	0.207	0.173	16.4	79	0.00
5		Bromomethane	0.115	0.307	-167.0#	377#	0.00
6		Chloroethane	0.145	0.143	1.4	96	0.00
7		Trichlorofluoromethane	0.256	0.304	-18.7	101	0.00
8		Ethyl Ether	0.178	0.153	14.0	78	0.00
9		Freon 113	0.158	0.171	-8.2	100	0.00
10		Acrolein	0.036	0.029	19.4	78	0.00
11		Tert-Butyl alcohol	0.020	0.018	10.0	66	0.00
12		1,1-Dichloroethene	0.182	0.145	20.3#	74	0.00
13		Iodomethane	0.211	0.286	-35.5#	302#	0.00
14		Acetonitrile	0.108	0.128	-18.5	100	0.00
15		Methylene chloride	0.252	0.198	21.4#	85	0.00
16		Trans-1,2-dichloroethene	0.209	0.177	15.3	77	0.00
17		Isopropyl ether	0.812	0.745	8.3	82	0.00
18		1,1-Dichloroethane	0.374	0.360	3.7	84	0.00
19		Acetone	0.095	0.062	34.7#	66	0.00
20		Methyl Acetate	0.186	0.191	-2.7	72	0.00
21		MTBE	0.545	0.559	-2.6	88	0.00
22		Carbon disulfide	0.679	0.362	46.7#	57	0.00
23		Allyl Chloride	0.000	0.000	0.0	96	0.00
24		Acrylonitrile	0.063	0.061	3.2	88	0.00
25		Chloroprene	0.357	0.283	20.7#	77	0.00
26	T	n-Heptane	0.183	0.007	96.2#	4#	0.11
27		2,2-Dichloropropane	0.313	0.290	7.3	84	0.00
28		Cis-1,2-dichloroethene	0.253	0.215	15.0	82	0.00
29		1,2-dichloroethene(total)	0.268	0.202	24.6#	80	0.82#
30		Propionitrile	0.031	0.027	12.9	73	0.00
31		Bromochloromethane	0.109	0.127	-16.5	103	0.00
32		Tetrahydrofuran	0.051	0.046	9.8	79	0.00
33		Chloroform	0.426	0.403	5.4	97	0.00
34		Cyclohexane	0.392	0.278	29.1#	74	0.00
35		1,1,1-Trichloroethane	0.318	0.313	1.6	90	0.00
36		Carbon tetrachloride	0.272	0.287	-5.5	95	0.00
37		Methacrylonitrile	0.170	0.161	5.3	88	0.00
38		Methylcyclohexane	0.338	0.283	16.3	81	0.00

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:01:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.010	33.3#	58	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.283	-6.4	103	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
42		2-Butanone	0.163	0.128	21.5#	73	0.00
43		1,1-Dichloropropene	0.339	0.281	17.1	80	0.00
44		Vinyl Acetate	0.381	0.239	37.3#	63	0.00
45		Benzene	1.058	0.834	21.2#	79	0.00
46		1,2-Dichloroethane	0.332	0.303	8.7	89	0.00
47		Trichloroethene	0.272	0.222	18.4	84	0.00
48		1,2-Dichloropropane	0.271	0.227	16.2	80	0.00
49		Methyl methacrylate	0.196	0.153	21.9#	80	0.00
50		Dibromomethane	0.167	0.153	8.4	91	0.00
51		Bromodichloromethane	0.354	0.345	2.5	97	0.00
52		2-Chloroethylvinyl ether	0.108	0.044	59.3#	28#	0.00
53		Cis-1,3-dichloropropene	0.427	0.433	-1.4	97	0.00
54	SS	Toluene-d8	1.159	1.319	-13.8	120	0.00
55		Toluene	0.694	0.712	-2.6	101	0.00
56		Trans-1,3-dichloropropene	0.387	0.377	2.6	92	0.00
57		Ethyl methacrylate	0.347	0.350	-0.9	101	0.00
58		1,1,2-Trichloroethane	0.208	0.213	-2.4	102	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	129	0.00
60		4-Methyl-2-pentanone	0.292	0.240	17.8	96	0.00
61		2-Hexanone	0.210	0.165	21.4#	90	0.00
62		Tetrachloroethene	0.288	0.294	-2.1	125	0.00
63		1,3-Dichloropropane	0.416	0.372	10.6	106	0.00
64		Dibromochloromethane	0.301	0.285	5.3	114	0.00
65		1,2-Dibromoethane	0.257	0.229	10.9	110	0.00
66		1-Chlorohexane	0.432	0.330	23.6#	98	0.00
67		Chlorobenzene	0.848	0.778	8.3	111	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.309	-1.6	122	0.00
69		Ethylbenzene	1.451	1.229	15.3	105	0.00
70		m,p-Xylene	0.570	0.521	8.6	109	0.00
71		o-Xylene	0.578	0.517	10.6	111	0.00
72		Xylene (Total)	0.586	0.521	11.1	110	0.00
73		Styrene	0.960	0.862	10.2	109	0.00
74		Bromoform	0.187	0.188	-0.5	114	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:01:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.152	6.2	115	0.00
76	SS	4-Bromofluorobenzene	0.471	0.471	0.0	128	0.00
77		Bromobenzene	0.336	0.359	-6.8	130	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.289	12.4	105	0.00
79		1,2,3-Trichloropropane	0.098	0.090	8.2	112	0.00
80		n-Propylbenzene	1.700	1.499	11.8	108	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.054	34.9#	63	0.00
82		2-Chlorotoluene	0.361	0.360	0.3	121	0.00
83		4-Chlorotoluene	0.374	0.365	2.4	121	0.00
84		1,3,5-Trimethylbenzene	1.207	1.133	6.1	114	0.00
85		Tert-butylbenzene	1.049	1.014	3.3	117	0.00
86		Pentachloroethane	0.000	0.000	0.0	123	0.00
87		1,2,4-Trimethylbenzene	1.254	1.164	7.2	114	0.00
88		Sec-Butylbenzene	1.607	1.525	5.1	114	0.00
89		1,3-Dichlorobenzene	0.706	0.755	-6.9	132	0.00
90		4-Isopropyltoluene	1.367	1.404	-2.7	120	0.00
91		1,4-Dichlorobenzene	0.708	0.761	-7.5	131	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.533	-15.4	148	0.00
93		1,2-Dichlorobenzene	0.674	0.698	-3.6	131	0.00
94		n-Butylbenzene	1.349	1.174	13.0	109	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.050	12.3	105	0.00
96		1,2,4-Trichlorobenzene	0.409	0.438	-7.1	136	0.00
97		Hexachlorobutadiene	0.190	0.211	-11.1	139	0.00
98		Naphthalene	0.975	0.974	0.1	114	0.00
99		1,2,3-Trichlorobenzene	0.342	0.376	-9.9	134	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:01:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	497022	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	445387	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	518669	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	140531	53.22	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.44%				
54) Toluene-d8	6.142	98	587447	56.92	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 113.84%				
76) 4-Bromofluorobenzene	8.881	95	244255	49.96	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.92%				
92) 1,2-Dichlorobenzene-d4	10.085	152	276365	57.64	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.28%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	42973	48.80	ug/L		99
3) Chloromethane	1.333	50	72088	41.61	ug/L		99
4) Vinyl chloride	1.397	62	85974	41.80	ug/L		93
5) Bromomethane	1.622	94	152706	121.50	ug/L		94
6) Chloroethane	1.686	64	71009	49.18	ug/L		96
7) Trichlorofluoromethane	1.836	101	151226	50.63	ug/L		99
8) Ethyl Ether	2.044	59	76263	43.14	ug/L		97
9) Freon 113	2.178	101	85026	54.06	ug/L		94
10) Acrolein	2.189	56	72238	203.21	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	175957	872.28	ug/L	#	47
12) 1,1-Dichloroethene	2.210	96	72199	39.99	ug/L		92
13) Iodomethane	2.333	142	142147	67.70	ug/L		98
14) Acetonitrile	2.483	40	638072	490.13	ug/L	#	1
15) Methylene chloride	2.595	84	98332	42.28	ug/L		90
16) Trans-1,2-dichloroethene	2.756	96	88169	42.53	ug/L		86
17) Isopropyl ether	3.093	45	370188	45.89	ug/L		99
18) 1,1-Dichloroethane	3.109	63	178995	48.17	ug/L		97
19) Acetone	2.301	43	61937	73.16	ug/L		96
20) Methyl Acetate	4.265	43	95058	37.57	ug/L	#	100
21) MTBE	2.740	73	277901	51.33	ug/L		100
22) Carbon disulfide	2.355	76	180024	29.00	ug/L		100
24) Acrylonitrile	2.831	53	152808	243.00	ug/L		99
25) Chloroprene	3.146	53	140513	39.59	ug/L		95
26) n-Heptane	4.553	71	3594	1.98	ug/L	#	1
27) 2,2-Dichloropropane	3.553	77	144336	46.42	ug/L	#	80
28) Cis-1,2-dichloroethene	3.580	96	107105	42.57	ug/L		98

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:01:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	200417m	75.24	ug/L		
30) Propionitrile	3.735	54	132155	425.60	ug/L		98
31) Bromochloromethane	3.783	128	62998	58.04	ug/L	#	65
32) Tetrahydrofuran	3.788	72	22683	44.50	ug/L	#	22
33) Chloroform	3.837	83	200430	47.30	ug/L		99
34) Cyclohexane	3.938	56	138030	37.16	ug/L		89
35) 1,1,1-Trichloroethane	3.960	97	155765	49.25	ug/L		99
36) Carbon tetrachloride	4.061	117	142584	52.66	ug/L		97
37) Methacrylonitrile	3.826	41	799307	473.05	ug/L	#	20
38) Methylcyclohexane	4.992	83	140456	41.77	ug/L		89
39) Isobutyl Alcohol	4.265	43	95058	645.07	ug/L		99
42) 2-Butanone	3.612	43	113876	78.38	ug/L	#	90
43) 1,1-Dichloropropene	4.099	75	125154	41.45	ug/L		98
44) Vinyl Acetate	3.136	43	106247	31.28	ug/L	#	94
45) Benzene	4.281	78	371256	39.38	ug/L		100
46) 1,2-Dichloroethane	4.377	62	135024	45.69	ug/L		89
47) Trichloroethene	4.885	95	98811	40.82	ug/L	#	75
48) 1,2-Dichloropropane	5.163	63	100944	41.79	ug/L		100
49) Methyl methacrylate	5.265	69	68160	38.97	ug/L		96
50) Dibromomethane	5.281	93	68013	45.77	ug/L		95
51) Bromodichloromethane	5.431	83	153654	48.73	ug/L	#	98
52) 2-Chloroethylvinyl ether	5.779	63	77846	80.95	ug/L		95
53) Cis-1,3-dichloropropene	5.912	75	192733	50.72	ug/L		98
55) Toluene	6.217	92	317218	51.34	ug/L		100
56) Trans-1,3-dichloropropene	6.570	75	167708	48.71	ug/L		96
57) Ethyl methacrylate	6.624	69	155967	50.45	ug/L		99
58) 1,1,2-Trichloroethane	6.774	83	95052	51.27	ug/L		93
60) 4-Methyl-2-pentanone	6.094	43	248450	82.14	ug/L		94
61) 2-Hexanone	7.062	43	171042	78.34	ug/L		98
62) Tetrachloroethene	6.795	166	152278	50.93	ug/L		97
63) 1,3-Dichloropropane	6.971	76	192743	44.67	ug/L		90
64) Dibromochloromethane	7.185	129	147565	47.23	ug/L		99
65) 1,2-Dibromoethane	7.319	107	118564	44.48	ug/L		99
66) 1-Chlorohexane	7.785	91	171291	38.19	ug/L		95
67) Chlorobenzene	7.806	112	403312	45.86	ug/L		88
68) 1,1,1,2-Tetrachloroethane	7.908	131	160386	50.92	ug/L		97
69) Ethylbenzene	7.897	91	637390	42.34	ug/L		96
70) m,p-Xylene	8.020	106	540026	91.32	ug/L		87
71) o-Xylene	8.395	106	267929	44.72	ug/L		89
72) Xylene (Total)	8.020	106	810199m	133.37	ug/L		
73) Styrene	8.421	104	447074	44.90	ug/L		96
74) Bromoform	8.598	173	97296	50.22	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:01:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

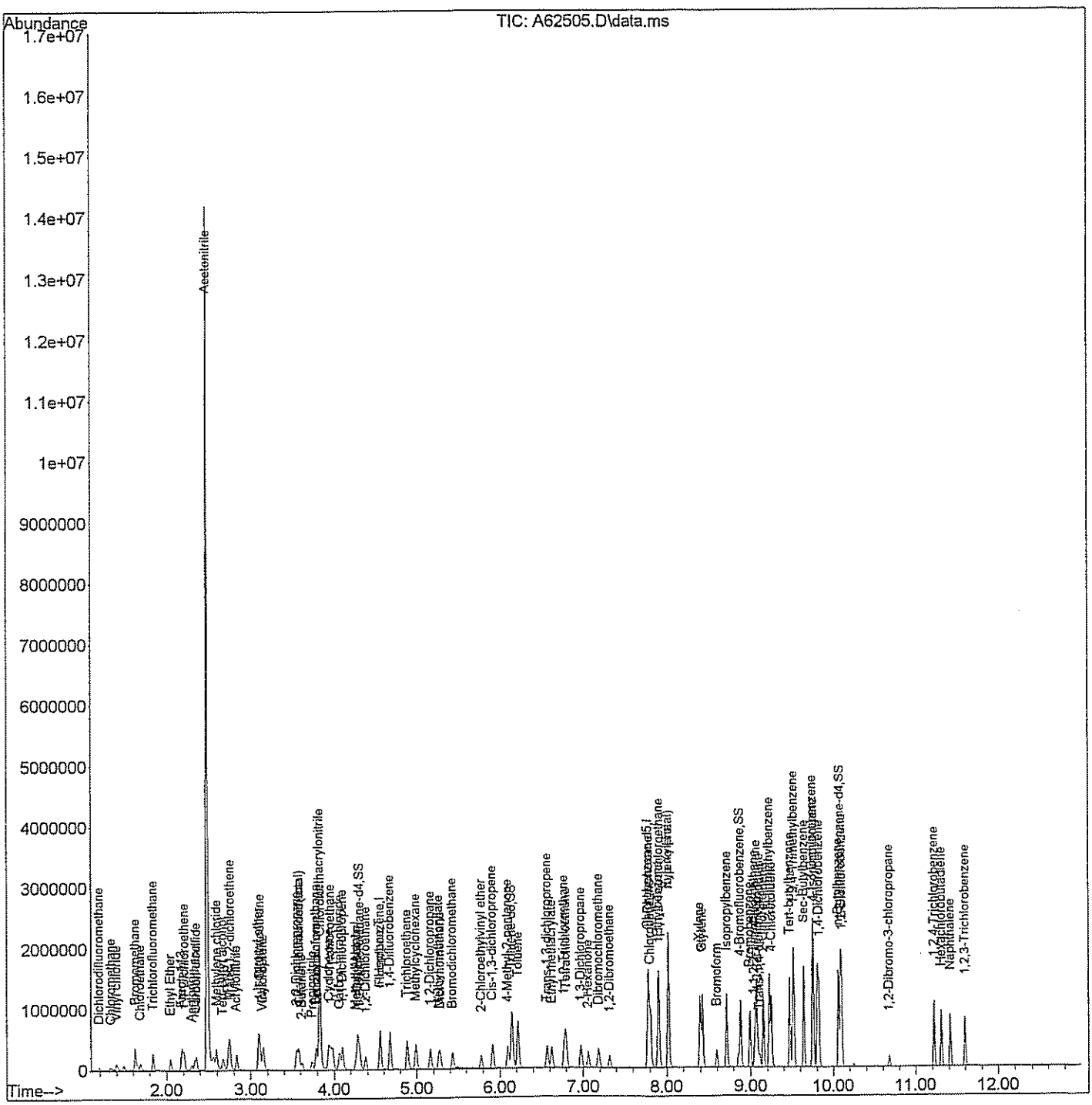
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	597496	46.89	ug/L		96
77) Bromobenzene	8.994	156	185950	53.31	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	149876	43.75	ug/L		99
79) 1,2,3-Trichloropropane	9.085	110	46935	46.12	ug/L		99
80) n-Propylbenzene	9.069	91	777527	44.09	ug/L		94
81) Trans-1,4-dichloro-2-b...	9.106	53	27790	32.43	ug/L	#	24
82) 2-Chlorotoluene	9.149	126	186871	49.97	ug/L		85
83) 4-Chlorotoluene	9.250	126	189482	48.81	ug/L		78
84) 1,3,5-Trimethylbenzene	9.224	105	587617	46.94	ug/L		94
85) Tert-butylbenzene	9.470	119	525779	48.34	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	603890	46.43	ug/L		91
88) Sec-Butylbenzene	9.641	105	790774	47.43	ug/L		95
89) 1,3-Dichlorobenzene	9.748	146	391761	53.52	ug/L		99
90) 4-Isopropyltoluene	9.759	119	728049	51.36	ug/L		96
91) 1,4-Dichlorobenzene	9.823	146	394603	53.72	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	361868	51.76	ug/L		100
94) n-Butylbenzene	10.058	91	609092	43.53	ug/L	#	87
95) 1,2-Dibromo-3-chloropr...	10.679	75	25985	44.29	ug/L	#	73
96) 1,2,4-Trichlorobenzene	11.225	180	227356	53.59	ug/L		99
97) Hexachlorobutadiene	11.305	225	109372	55.35	ug/L		99
98) Naphthalene	11.412	128	504975	49.94	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	195015	54.91	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

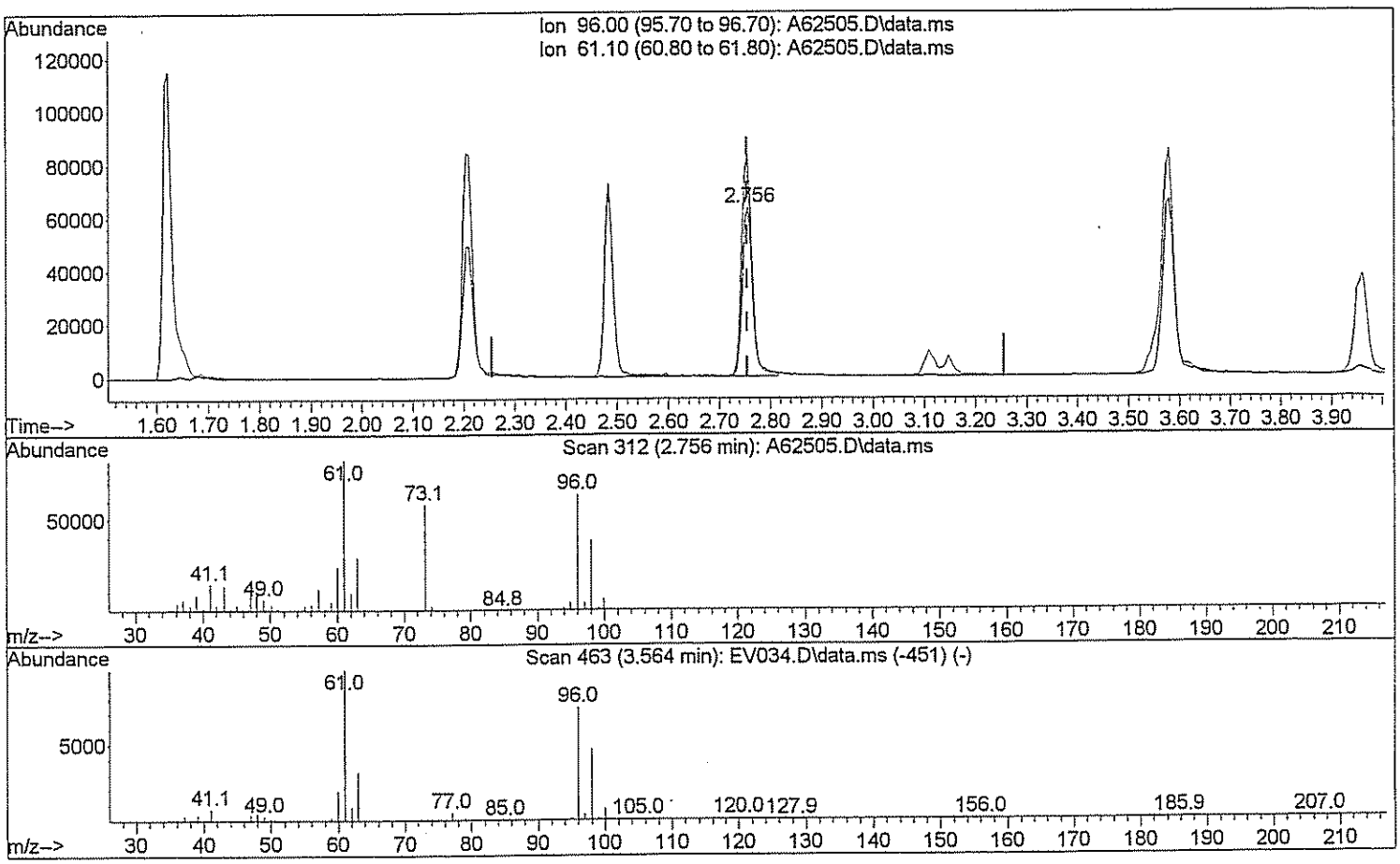
Quant Time: Mar 25 14:01:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:00:48 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62505.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 33.10 ug/L

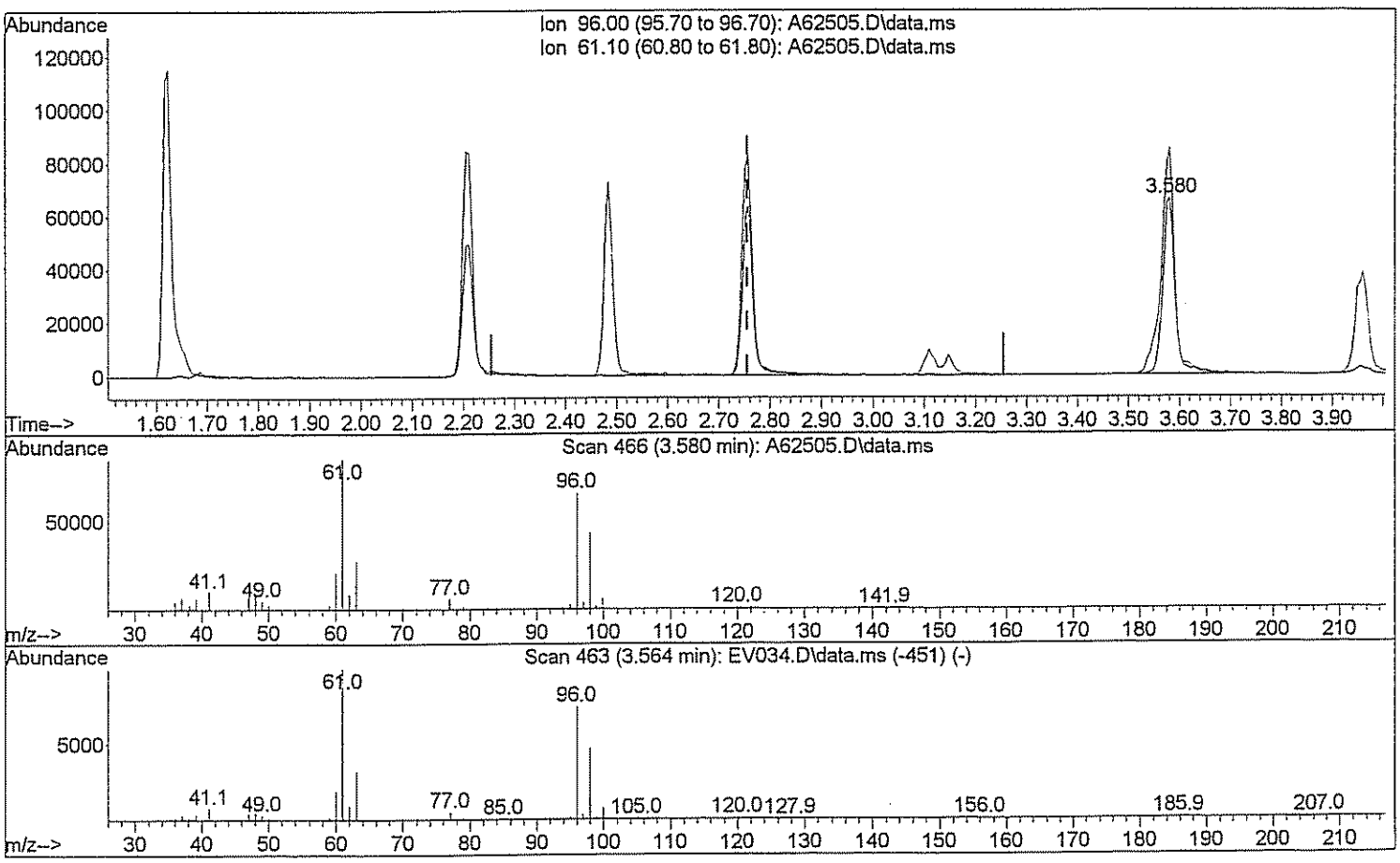
response 88169

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	136.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:00:48 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62505.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.824) 75.24 ug/L m

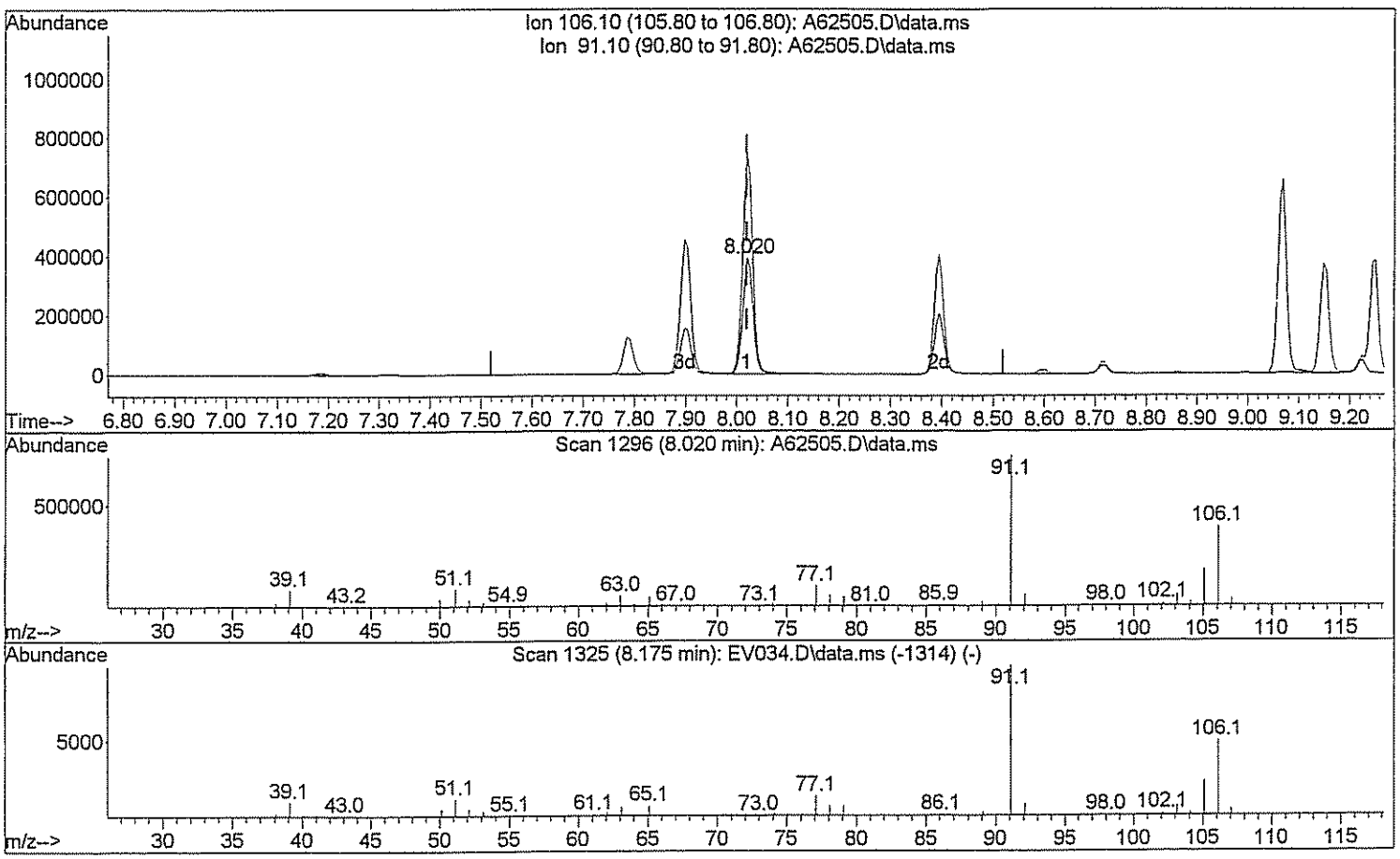
response 200417

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:00:48 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62505.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 88.90 ug/L

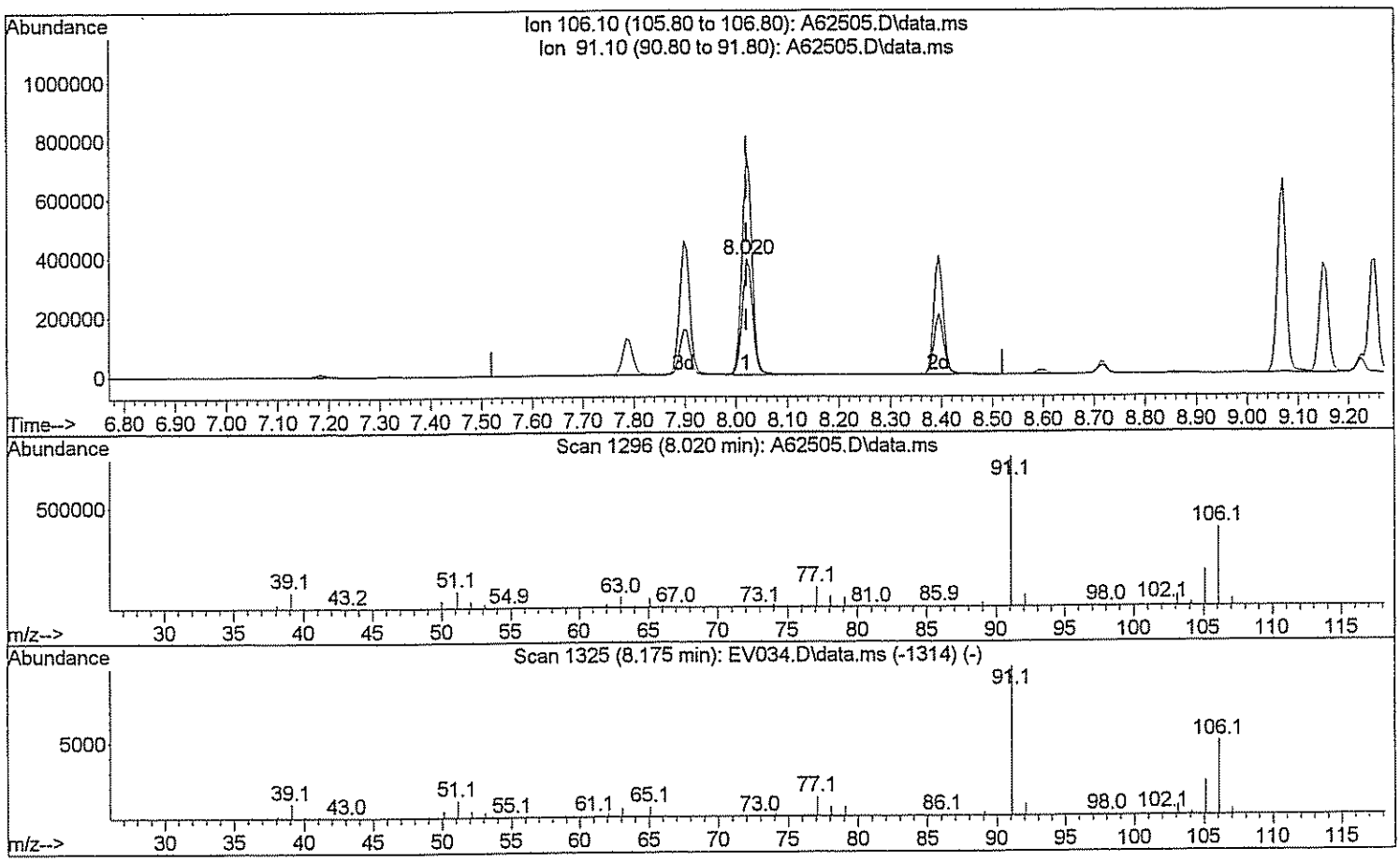
response 540026

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	187.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62505.D
Acq On : 25 Mar 2009 10:36
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 25 14:00:48 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62505.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 133.37 ug/L m DM 3/25/09

response 810199

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	124.94#
0.00	0.00	0.00
0.00	0.00	0.00

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

6. Injection Logsheet

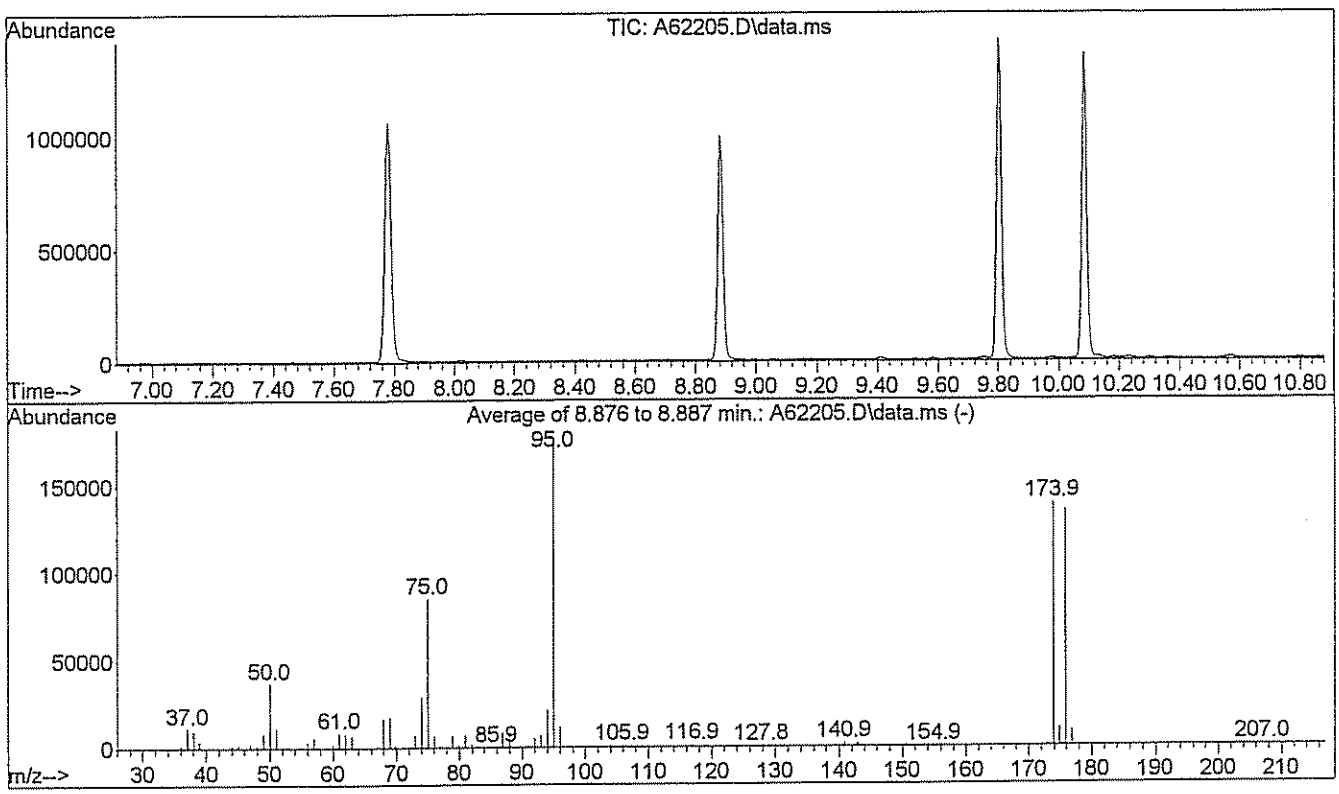
7. Control Charts (where applicable)

GPL Laboratories

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62205.D
Acq On : 10 Mar 2009 7:35
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 07:32:19 2009



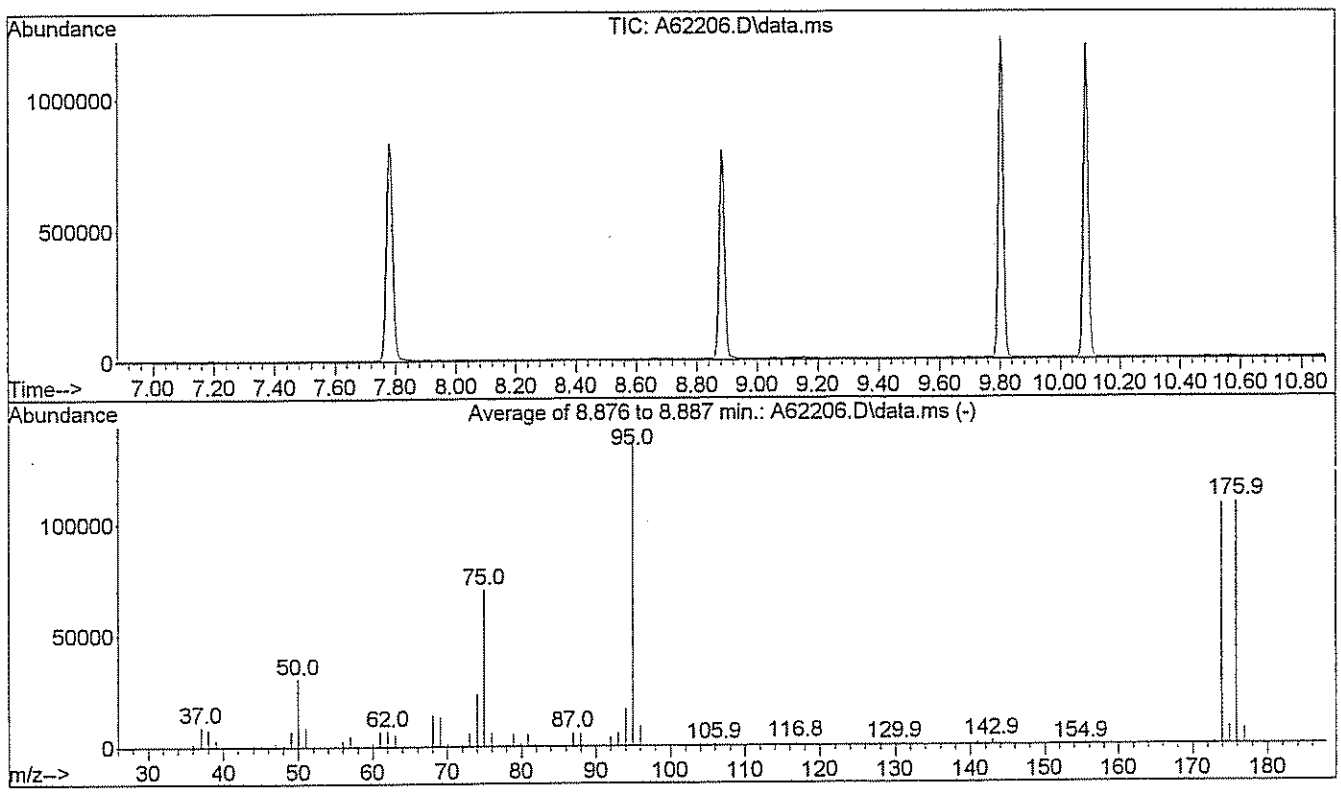
AutoFind: Scans 1456, 1457, 1458; Background Corrected with Scan 1448

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	36987	PASS
75	95	30	60	48.8	85267	PASS
95	95	100	100	100.0	174571	PASS
96	95	5	9	6.6	11522	PASS
173	174	0.00	2	0.8	1093	PASS
174	95	50	100	79.6	139005	PASS
175	174	5	9	7.4	10350	PASS
176	174	95	100	97.3	135299	PASS
177	176	5	9	6.5	8791	PASS

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62206.D
Acq On : 10 Mar 2009 7:55
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 51 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Title : 8260
Last Update : Tue Mar 10 15:42:35 2009



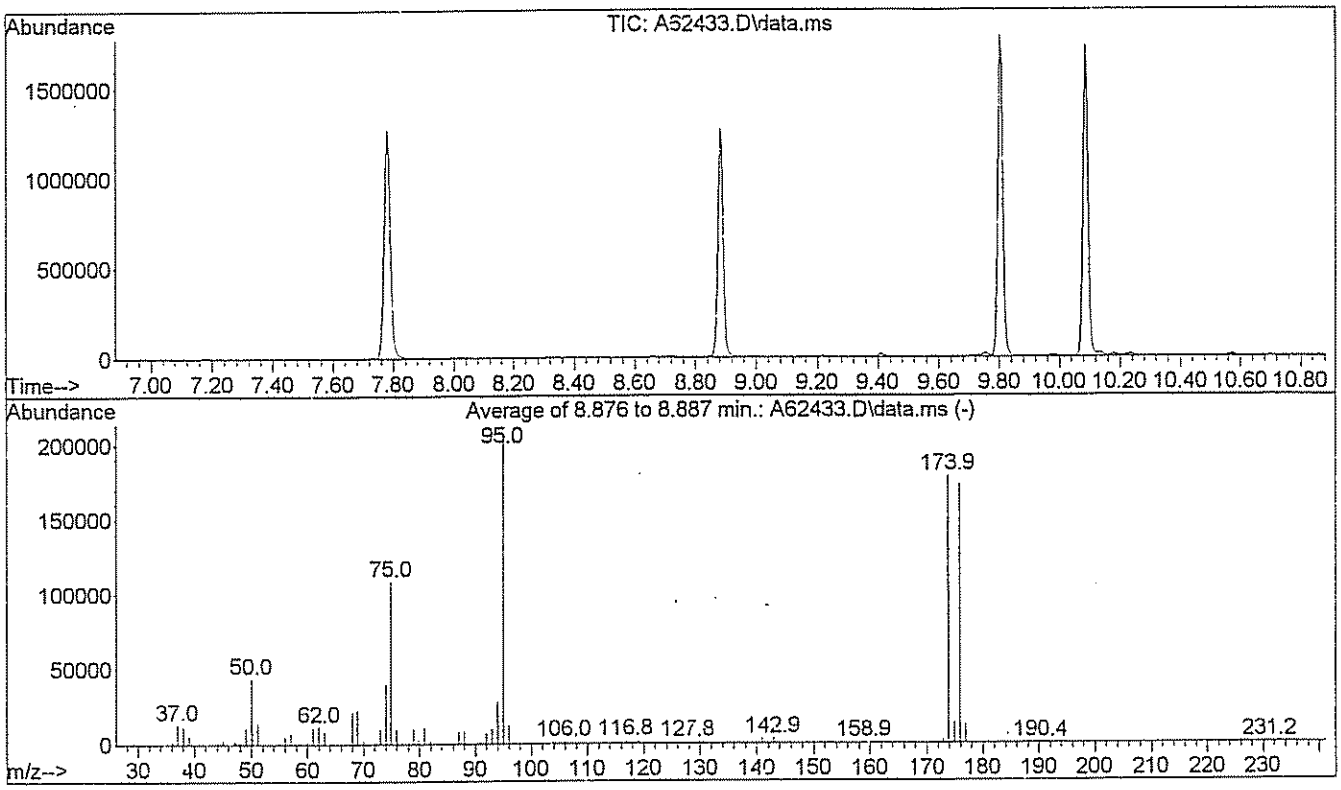
Spectrum Information: Average of 8.876 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	30827	PASS
75	95	30	60	51.3	70403	PASS
95	95	100	100	100.0	137192	PASS
96	95	5	9	6.7	9147	PASS
173	174	0.00	2	1.1	1158	PASS
174	95	50	100	78.5	107739	PASS
175	174	5	9	7.5	8069	PASS
176	174	95	101	100.8	108616	PASS
177	176	5	9	6.6	7206	PASS

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62433.D
Acq On : 23 Mar 2009 11:28
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



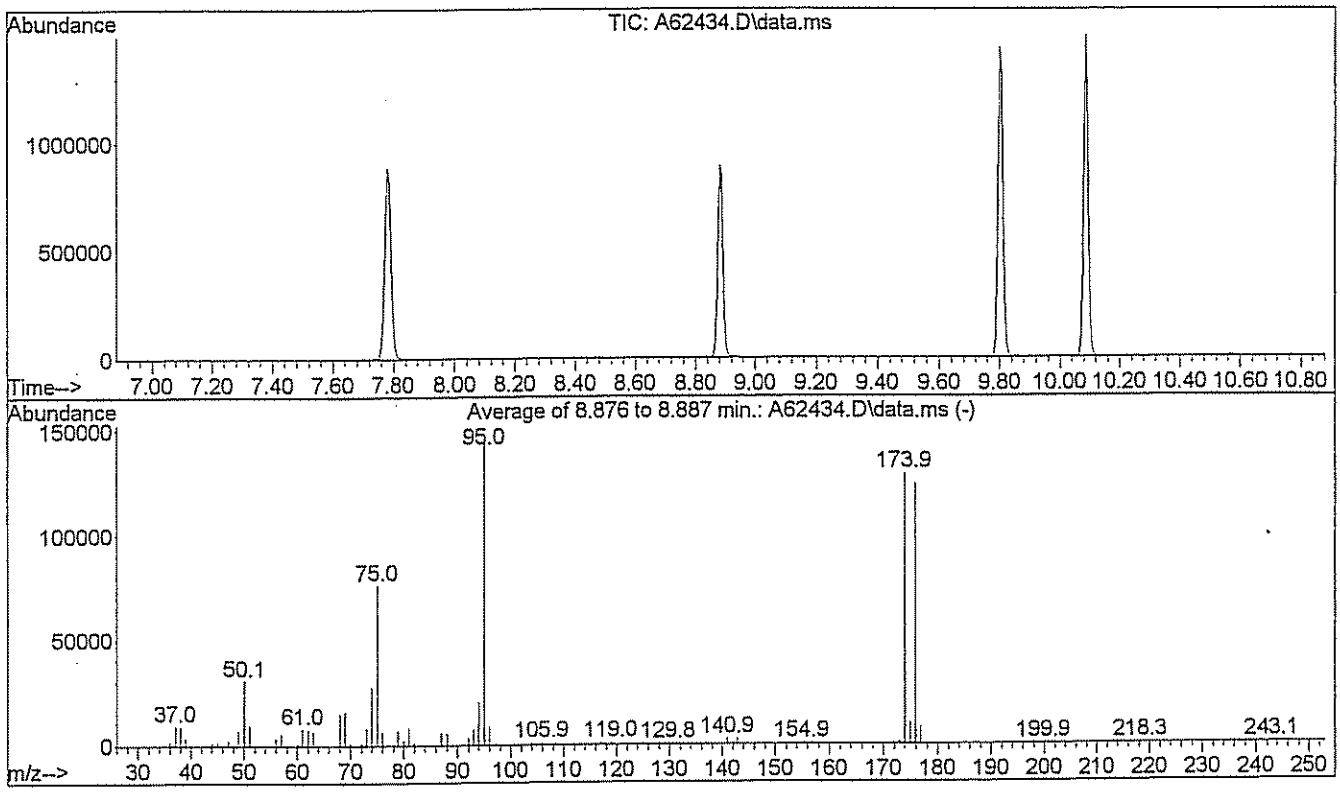
Spectrum Information: Average of 8.876 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	43803	PASS
75	95	30	60	53.2	108611	PASS
95	95	100	100	100.0	204309	PASS
96	95	5	9	6.1	12509	PASS
173	174	0.00	2	1.4	2576	PASS
174	95	50	100	87.4	178491	PASS
175	174	5	9	7.8	13860	PASS
176	174	95	100	97.0	173179	PASS
177	176	5	9	7.1	12311	PASS

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62434.D
Acq On : 23 Mar 2009 11:49
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 51 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009



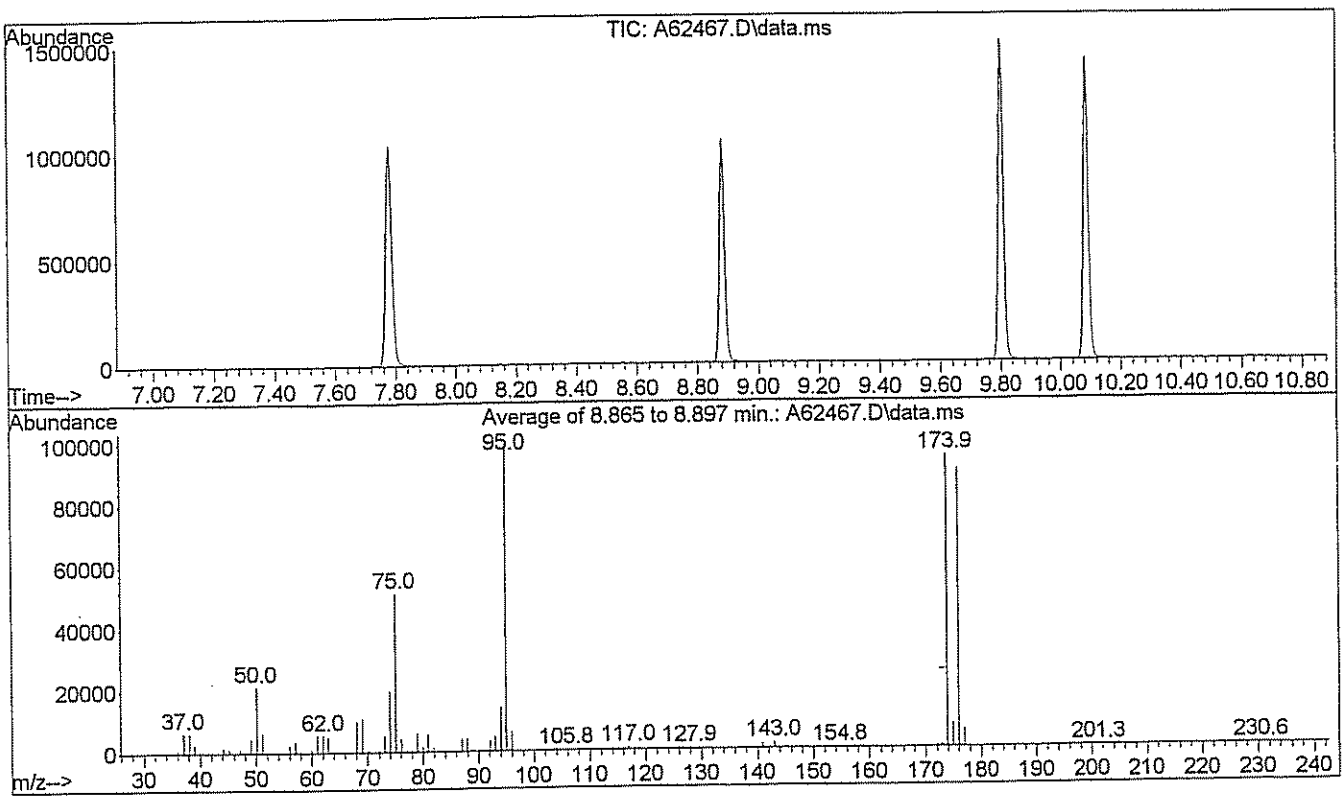
AutoFind: Scans 1456, 1457, 1458; Background Corrected with Scan 1448

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.1	30747	PASS
75	95	30	60	52.4	76248	PASS
95	95	100	100	100.0	145411	PASS
96	95	5	9	5.9	8546	PASS
173	174	0.00	2	1.1	1384	PASS
174	95	50	100	88.4	128597	PASS
175	174	5	9	7.8	9996	PASS
176	174	95	101	96.1	123624	PASS
177	176	5	9	6.5	8073	PASS

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62467.D
Acq On : 24 Mar 2009 7:34
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



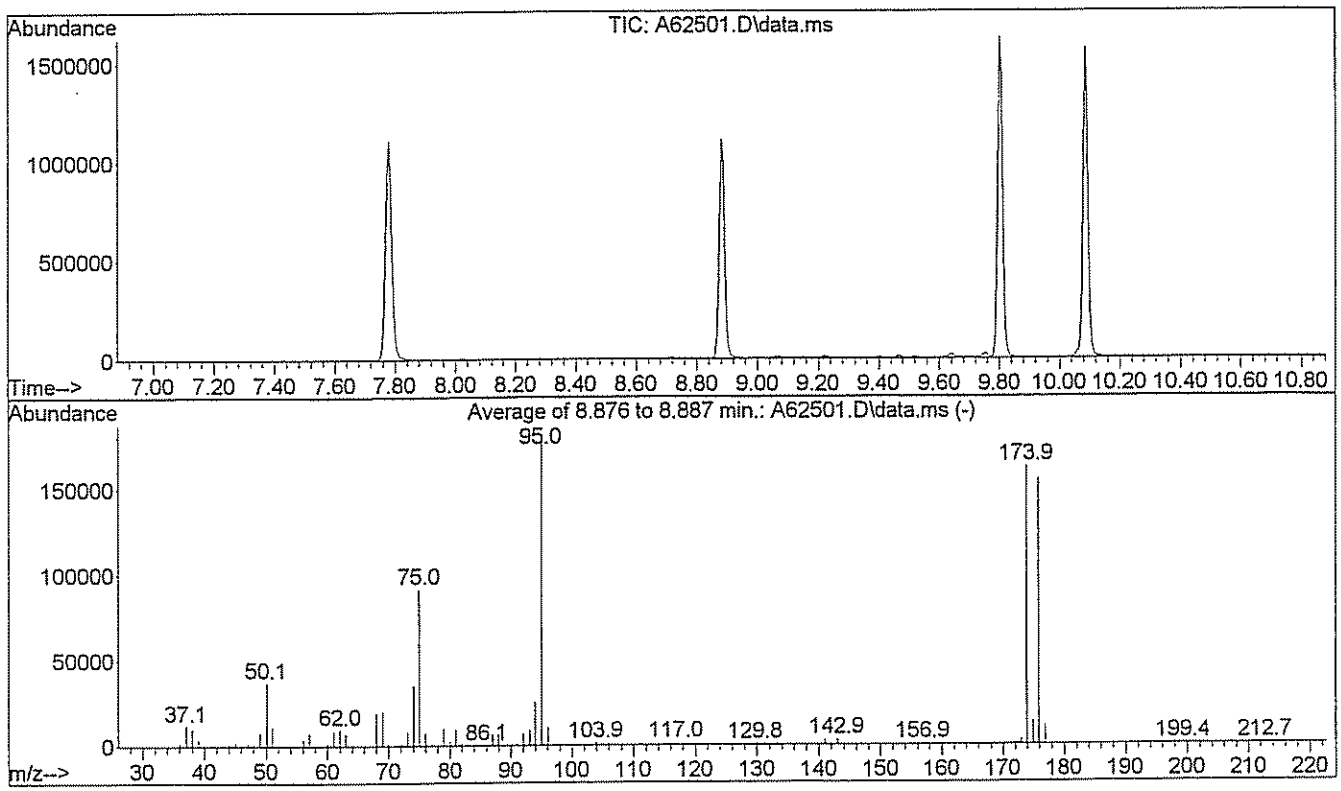
Spectrum Information: Average of 8.865 to 8.897 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	21465	PASS
75	95	30	60	51.9	51406	PASS
95	95	100	100	100.0	98997	PASS
96	95	5	9	6.3	6263	PASS
173	174	0.00	2	0.8	761	PASS
174	95	50	100	95.6	94662	PASS
175	174	5	9	7.9	7484	PASS
176	174	95	100	95.1	90039	PASS
177	176	5	9	6.4	5759	PASS

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62501.D
Acq On : 25 Mar 2009 8:34
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



Spectrum Information: Average of 8.876 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	36829	PASS
75	95	30	60	51.1	91469	PASS
95	95	100	100	100.0	178923	PASS
96	95	5	9	5.9	10478	PASS
173	174	0.00	2	1.7	2834	PASS
174	95	50	100	90.9	162557	PASS
175	174	5	9	8.3	13543	PASS
176	174	95	100	95.6	155336	PASS
177	176	5	9	7.1	11058	PASS

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108821
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108821
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108821
Sample Volume :	5	Lab File ID :	A62437.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62437.D
Acq On : 23 Mar 2009 13:26
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 18:35:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

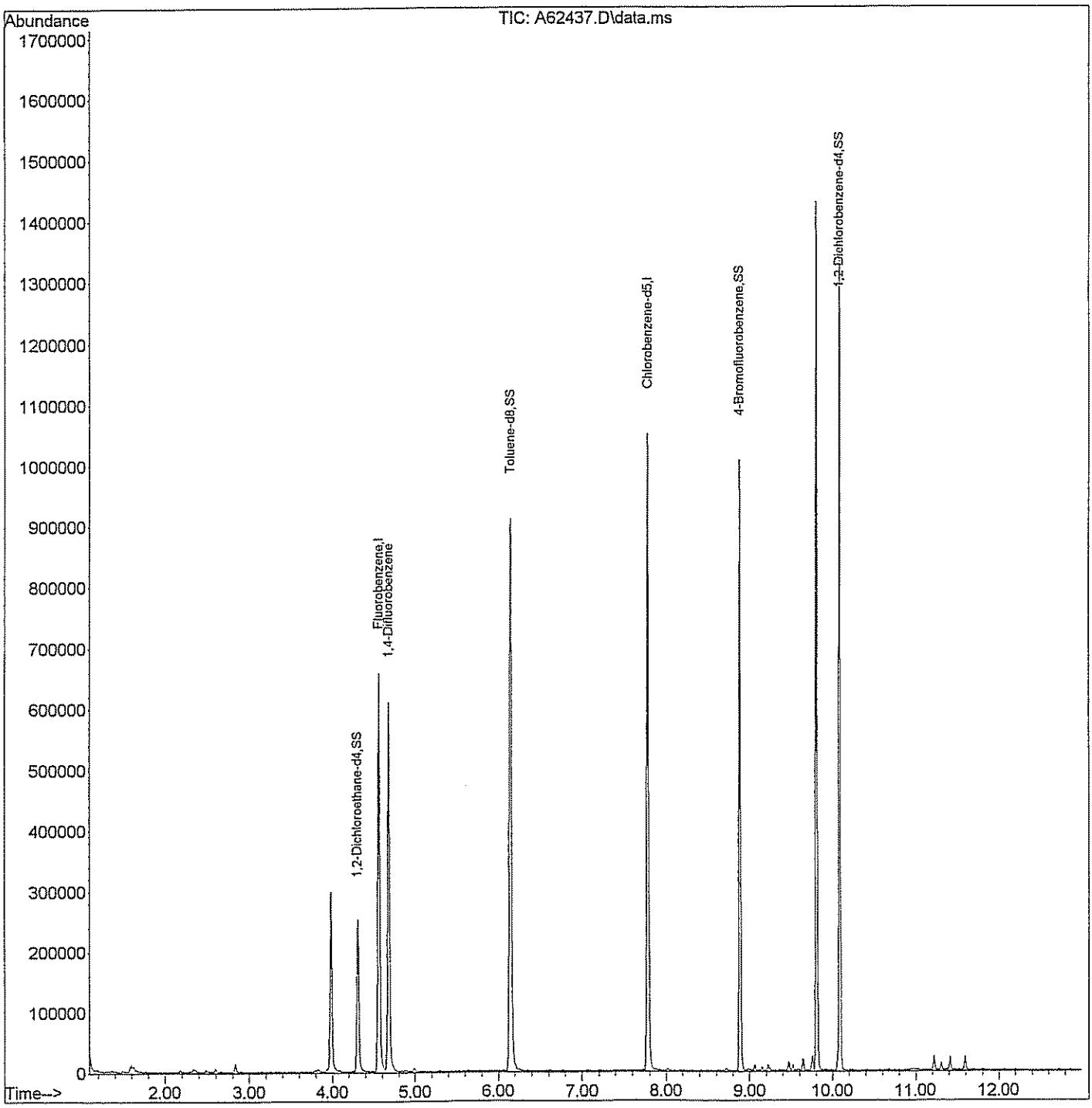
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	493162	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	423226	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	486520	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	138852	53.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.00%			
54) Toluene-d8	6.142	98	579385	59.08	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 118.16%			
76) 4-Bromofluorobenzene	8.881	95	226429	49.37	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.74%			
92) 1,2-Dichlorobenzene-d4	10.085	152	238596	53.05	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 106.10%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62437.D
Acq On : 23 Mar 2009 13:26
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 18:35:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108811
Sample Volume :	5	Lab File ID :	A62438.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108811
Sample Volume :	5	Lab File ID :	A62438.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108811
Sample Volume :	5	Lab File ID :	A62438.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62438.D
Acq On : 23 Mar 2009 13:47
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 23 15:49:27 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

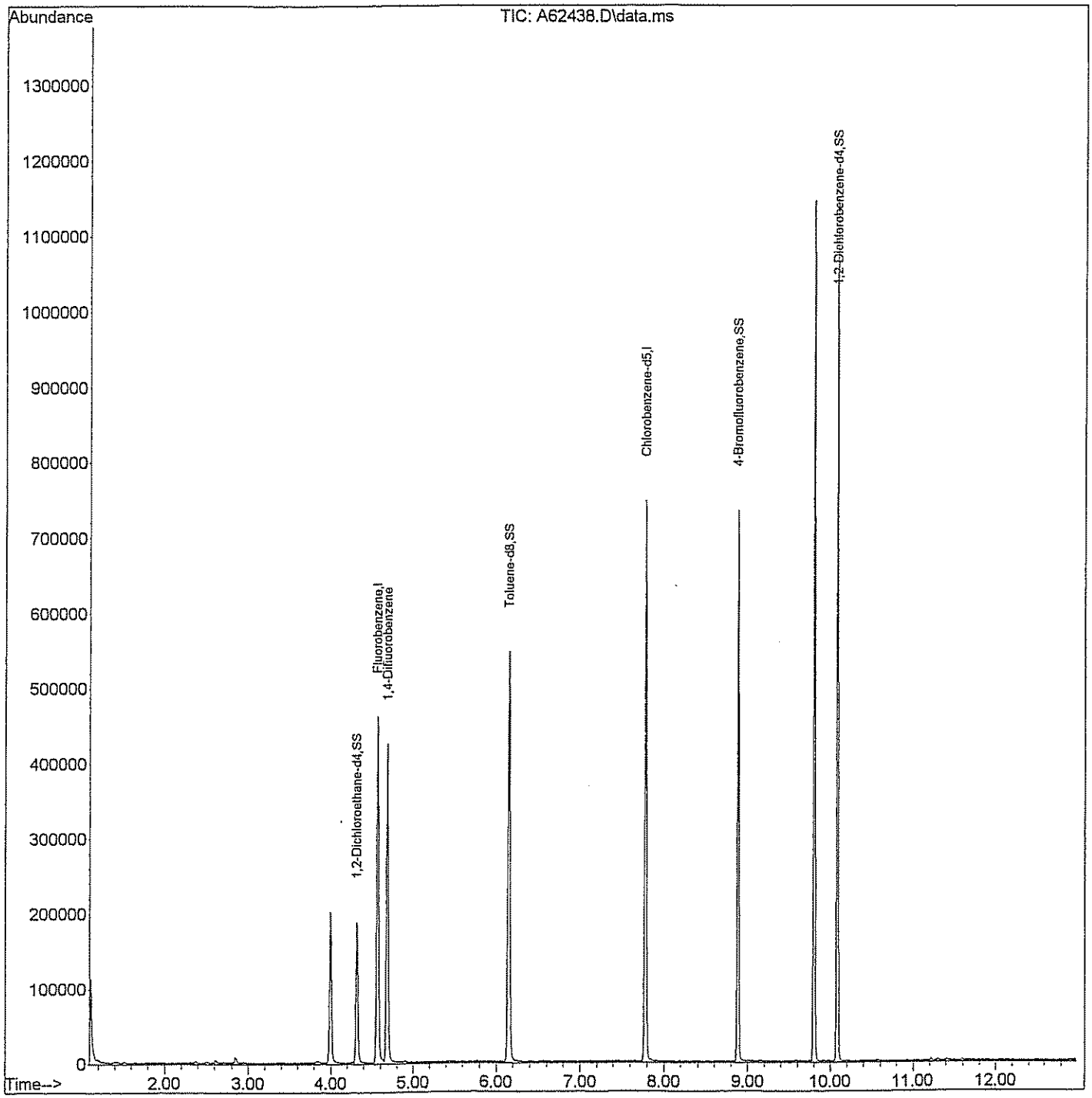
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	349822	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	305271	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.779	117	350637	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	95126	49.22	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.44%			
53) Toluene-d8	6.148	98	323551	47.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 95.50%			
75) 4-Bromofluorobenzene	8.881	95	165589	47.59	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.18%			
91) 1,2-Dichlorobenzene-d4	10.085	152	194485	51.23	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.46%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62438.D
Acq On : 23 Mar 2009 13:47
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 23 15:49:27 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108826
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108826
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108826
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62475.D
Acq On : 24 Mar 2009 11:06
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:22:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

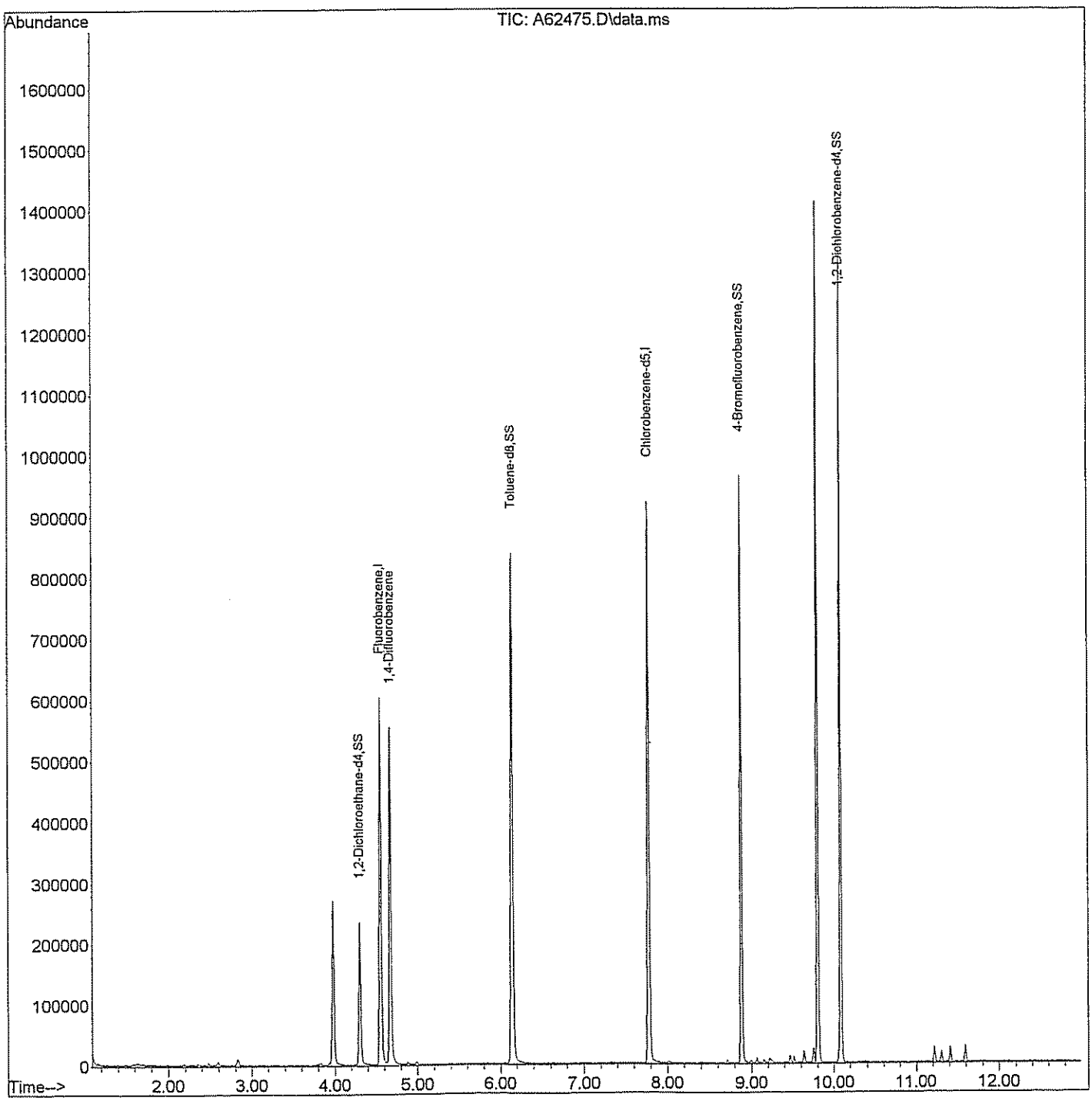
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	449301	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	400974	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	448334	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	125283	52.49	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.98%			
54) Toluene-d8	6.142	98	515642	55.50	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 111.00%			
76) 4-Bromofluorobenzene	8.881	95	202540	47.93	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.86%			
92) 1,2-Dichlorobenzene-d4	10.085	152	222032	53.57	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.14%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62475.D
Acq On : 24 Mar 2009 11:06
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:22:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108829
Sample Volume :	5	Lab File ID :	A62509.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108829
Sample Volume :	5	Lab File ID :	A62509.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108829
Sample Volume :	5	Lab File ID :	A62509.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62509.D
Acq On : 25 Mar 2009 12:19
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 25 14:03:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

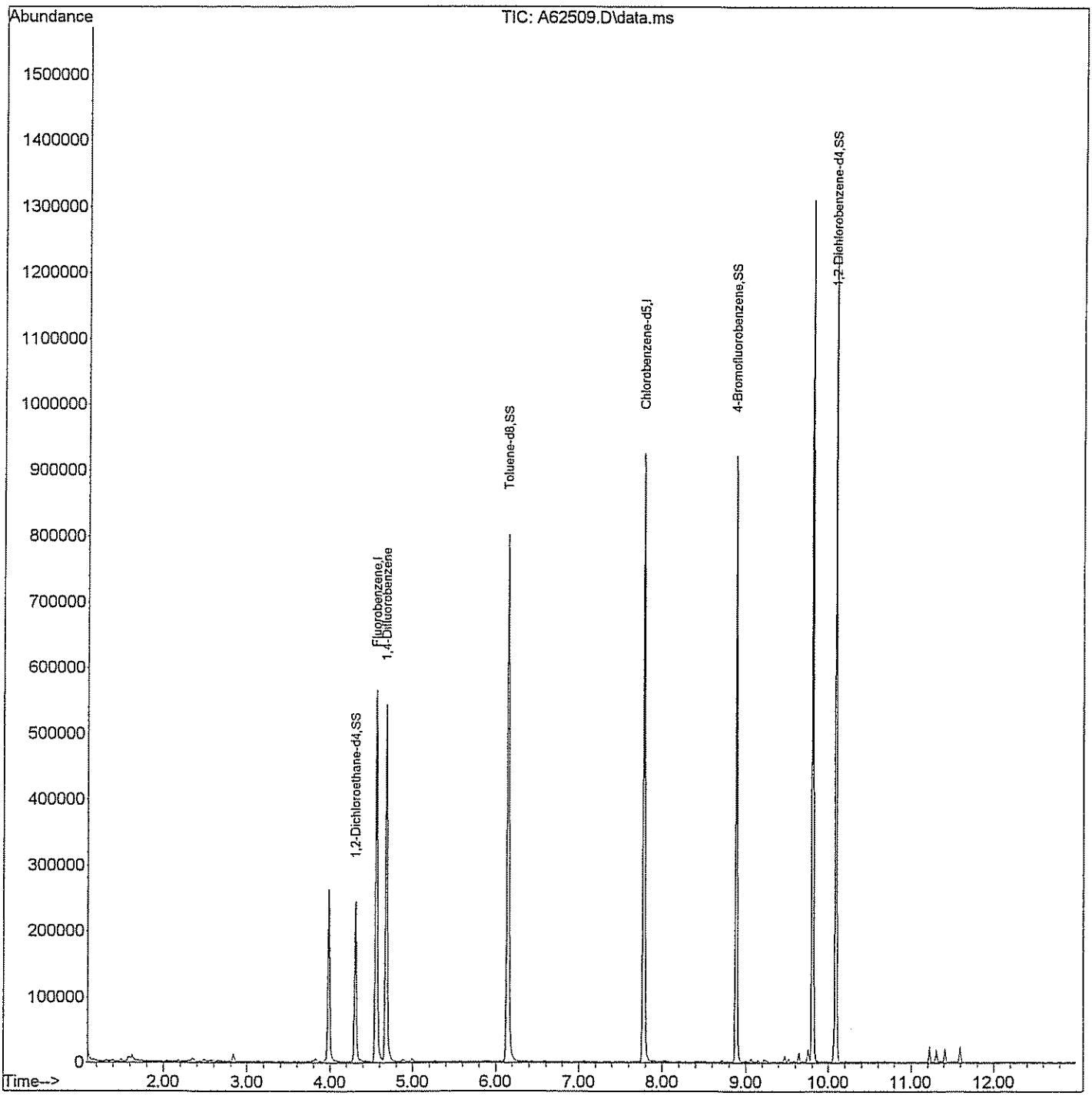
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	433005	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	394803	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	442600	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	122749	53.36	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.72%			
54) Toluene-d8	6.142	98	508028	55.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 111.06%			
76) 4-Bromofluorobenzene	8.881	95	207410	49.71	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.42%			
92) 1,2-Dichlorobenzene-d4	10.085	152	222174	54.30	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 108.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62509.D
Acq On : 25 Mar 2009 12:19
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 25 14:03:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MS
Sample Volume :	.5	Lab File ID :	A62523.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	460	
71-55-6	1,1,1-Trichloroethane	480	
79-34-5	1,1,2,2-Tetrachloroethane	440	
79-00-5	1,1,2-Trichloroethane	460	
75-34-3	1,1-Dichloroethane	450	
75-35-4	1,1-Dichloroethene	460	
563-58-6	1,1-Dichloropropene	420	
87-61-6	1,2,3-Trichlorobenzene	520	
96-18-4	1,2,3-Trichloropropane	480	
120-82-1	1,2,4-Trichlorobenzene	520	
95-63-6	1,2,4-Trimethylbenzene	440	
96-12-8	1,2-Dibromo-3-Chloropropane	420	
95-50-1	1,2-Dichlorobenzene	490	
107-06-2	1,2-Dichloroethane	420	
78-87-5	1,2-Dichloropropane	390	
108-67-8	1,3,5-trimethylbenzene	430	
541-73-1	1,3-Dichlorobenzene	510	
142-28-9	1,3-Dichloropropane	400	
106-46-7	1,4-Dichlorobenzene	500	
594-20-7	2,2-Dichloropropane	420	
78-93-3	2-Butanone	710	
95-49-8	2-Chlorotoluene	450	
591-78-6	2-Hexanone	740	
106-43-4	4-Chlorotoluene	470	
99-87-6	4-Isopropyltoluene	490	
108-10-1	4-Methyl-2-Pentanone	680	
67-64-1	Acetone	680	
71-43-2	Benzene	400	
108-86-1	Bromobenzene	500	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MS
Sample Volume :	.5	Lab File ID :	A62523.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	560	
75-27-4	Bromodichloromethane	400	
75-25-2	Bromoform	470	
74-83-9	Bromomethane	910	
75-15-0	Carbon Disulfide	400	
56-23-5	Carbon Tetrachloride	540	
108-90-7	Chlorobenzene	430	
75-00-3	Chloroethane	620	
67-66-3	Chloroform	430	
74-87-3	Chloromethane	390	
110-82-7	Cyclohexane	420	
124-48-1	Dibromochloromethane	430	
74-95-3	Dibromomethane	420	
75-71-8	Dichlorodifluoromethane	320	
100-41-4	Ethylbenzene	400	
106-93-4	Ethylene DiBromide	410	
76-13-1	Freon 113	790	
87-68-3	Hexachlorobutadiene	510	
98-82-8	Isopropylbenzene	440	
79-20-9	Methyl Acetate	350	
108-87-2	Methylcyclohexane	480	
75-09-2	Methylene Chloride	390	
91-20-3	Naphthalene	520	
135-98-8	Sec-Butylbenzene	450	
100-42-5	Styrene	420	
127-18-4	Tetrachloroethylene	500	
108-88-3	Toluene	450	
79-01-6	Trichloroethene	400	
75-69-4	Trichlorofluoromethane	580	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MS
Sample Volume :	.5	Lab File ID :	A62523.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	340	
75-01-4	Vinyl Chloride	340	
156-59-2	cis-1,2-Dichloroethene	420	
10061-01-5	cis-1,3-Dichloropropene	370	
136777-61-2	m,p-Xylene	880	
104-51-8	n-Butylbenzene	420	
103-65-1	n-Propylbenzene	410	
95-47-6	o-Xylene	420	
98-06-6	tert-Butylbenzene	470	
1634-04-4	tert-butyl methyl ether	480	
156-60-5	trans-1,2-dichloroethene	460	
10061-02-6	trans-1,3-dichloropropene	440	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62523.D
Acq On : 25 Mar 2009 17:16
Operator : SM
Sample : 903069-002MS
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 26 16:44:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	427475	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	385081	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	437453	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	122605	53.99	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 107.98%				
54) Toluene-d8	6.142	98	405840	45.48	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 90.96%				
76) 4-Bromofluorobenzene	8.881	95	203761	49.41	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.82%				
92) 1,2-Dichlorobenzene-d4	10.085	152	243330	60.17	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 120.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	24562	32.43	ug/L	#	77
3) Chloromethane	1.338	50	57983	38.91	ug/L	#	71
4) Vinyl chloride	1.386	62	60333	34.11	ug/L		94
5) Bromomethane	1.616	94	83822	90.99	ug/L		96
6) Chloroethane	1.686	64	76589	61.67	ug/L		100
7) Trichlorofluoromethane	1.830	101	150408	58.33	ug/L		96
8) Ethyl Ether	2.039	59	69117	45.46	ug/L		93
9) Freon 113	2.173	101	106772	78.93	ug/L		93
10) Acrolein	2.184	56	58548	191.49	ug/L	#	9
11) Tert-Butyl alcohol	2.665	59	134079	772.81	ug/L	#	47
12) 1,1-Dichloroethene	2.200	96	72186	46.49	ug/L		86
13) Iodomethane	2.328	142	51223	28.37	ug/L		91
14) Acetonitrile	2.478	40	583315	518.89	ug/L	#	1
15) Methylene chloride	2.590	84	78386	39.31	ug/L		99
16) Trans-1,2-dichloroethene	2.751	96	81874	45.91	ug/L		83
17) Isopropyl ether	3.088	45	291441	42.00	ug/L		97
18) 1,1-Dichloroethane	3.104	63	144391	45.18	ug/L		100
19) Acetone	2.296	43	49877	68.57	ug/L		91
20) Methyl Acetate	4.259	43	76844	35.03	ug/L	#	100
21) MTBE	2.735	73	225492	48.43	ug/L		100
22) Carbon disulfide	2.349	76	213931	39.79	ug/L		100
24) Acrylonitrile	2.825	53	108196	200.05	ug/L		96
25) Chloroprene	3.141	53	119631	39.19	ug/L		89
26) n-Heptane	4.548	71	2847	1.82	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	111376	41.65	ug/L	#	67
28) Cis-1,2-dichloroethene	3.574	96	89820	41.50	ug/L		97

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62523.D
Acq On : 25 Mar 2009 17:16
Operator : SM
Sample : 903069-002MS
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 26 16:44:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	177471m	77.47	ug/L		
30) Propionitrile	3.730	54	102950	385.48	ug/L		97
31) Bromochloromethane	3.778	128	52800	56.55	ug/L	#	64
32) Tetrahydrofuran	3.783	72	18261	41.65	ug/L	#	1
33) Chloroform	3.831	83	156610	42.97	ug/L		98
34) Cyclohexane	3.933	56	134432	42.16	ug/L	#	86
35) 1,1,1-Trichloroethane	3.954	97	129873	47.75	ug/L		100
36) Carbon tetrachloride	4.061	117	125156	53.75	ug/L		99
37) Methacrylonitrile	3.821	41	636376	437.90	ug/L	#	18
38) Methylcyclohexane	4.992	83	139708	48.31	ug/L		87
39) Isobutyl Alcohol	4.259	43	76844	606.31	ug/L		93
42) 2-Butanone	3.612	43	88799	70.69	ug/L		95
43) 1,1-Dichloropropene	4.093	75	109972	42.13	ug/L		98
44) Vinyl Acetate	3.130	43	98710	33.61	ug/L		97
45) Benzene	4.281	78	323916	39.74	ug/L		100
46) 1,2-Dichloroethane	4.372	62	108248	42.36	ug/L	#	85
47) Trichloroethene	4.880	95	83675	39.98	ug/L	#	67
48) 1,2-Dichloropropane	5.158	63	81747	39.14	ug/L		97
49) Methyl methacrylate	5.260	69	54795	36.23	ug/L		99
50) Dibromomethane	5.276	93	54205	42.19	ug/L		98
51) Bromodichloromethane	5.425	83	108913	39.95	ug/L	#	99
52) 2-Chloroethylvinyl ether	6.212	63	36552	43.96	ug/L	#	49
53) Cis-1,3-dichloropropene	5.912	75	120497	36.67	ug/L		99
55) Toluene	6.212	92	241156	45.14	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	129850	43.62	ug/L		96
57) Ethyl methacrylate	6.618	69	122183	45.71	ug/L		98
58) 1,1,2-Trichloroethane	6.774	83	73762	46.02	ug/L		93
60) 4-Methyl-2-pentanone	6.094	43	173990	68.20	ug/L		96
61) 2-Hexanone	7.062	43	137068	74.43	ug/L		97
62) Tetrachloroethene	6.795	166	125324	49.70	ug/L		99
63) 1,3-Dichloropropane	6.972	76	145506	39.98	ug/L		89
64) Dibromochloromethane	7.180	129	113735	43.16	ug/L		95
65) 1,2-Dibromoethane	7.314	107	92514	41.15	ug/L		99
66) 1-Chlorohexane	7.785	91	138088	36.50	ug/L		95
67) Chlorobenzene	7.806	112	319852	43.12	ug/L		86
68) 1,1,1,2-Tetrachloroethane	7.908	131	123338	46.43	ug/L		97
69) Ethylbenzene	7.897	91	511969	40.32	ug/L		98
70) m,p-Xylene	8.020	106	440927	88.41	ug/L		84
71) o-Xylene	8.395	106	211250	41.80	ug/L		89
72) Xylene (Total)	8.020	106	654396m	127.72	ug/L		
73) Styrene	8.421	104	351136	41.81	ug/L		95
74) Bromoform	8.598	173	76915	47.07	ug/L		100

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62523.D
Acq On : 25 Mar 2009 17:16
Operator : SM
Sample : 903069-002MS
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 26 16:44:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

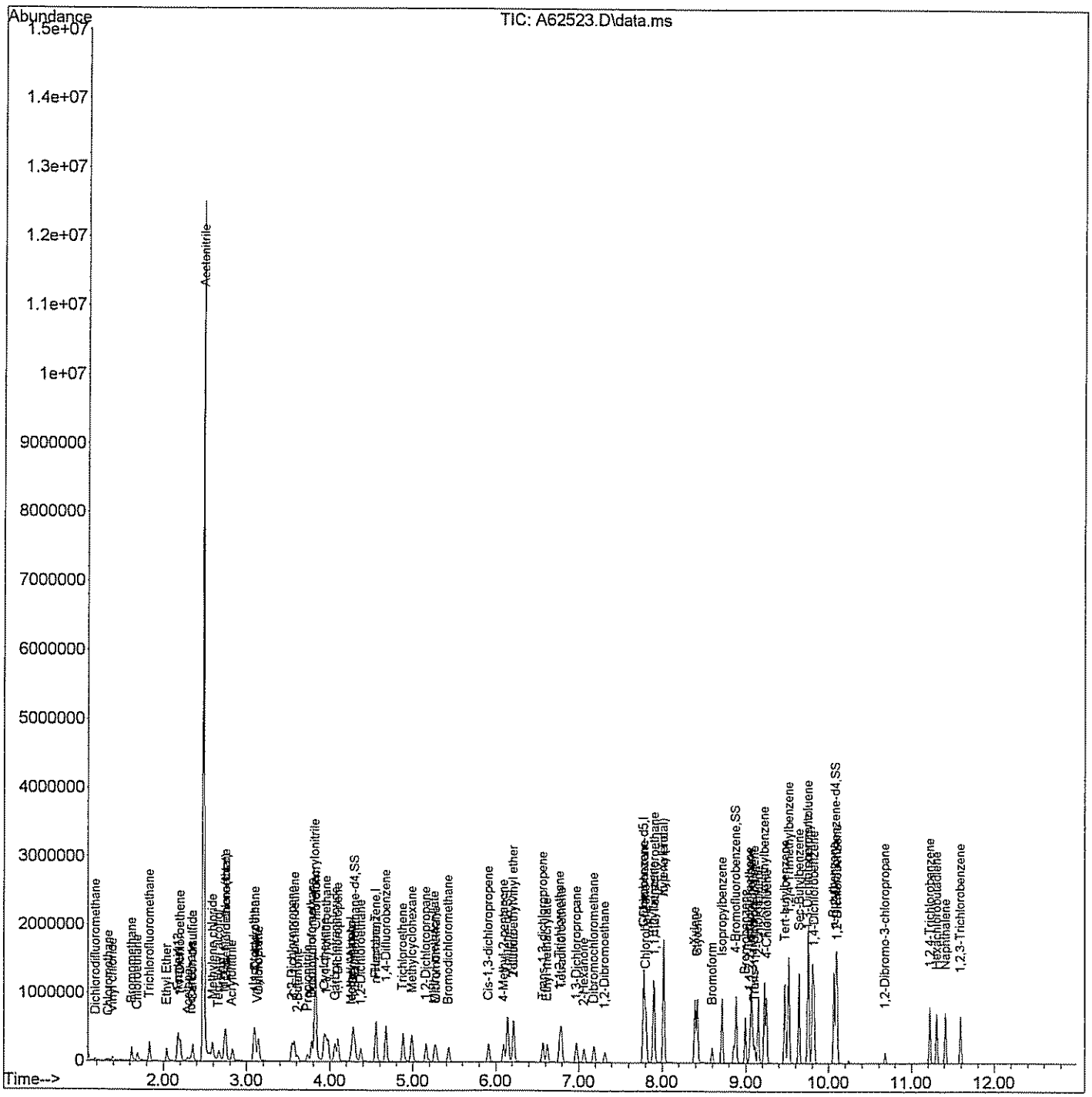
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	469050	43.65	ug/L		98
77) Bromobenzene	8.994	156	147654	50.19	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	128206	44.37	ug/L		100
79) 1,2,3-Trichloropropane	9.085	110	41028	47.80	ug/L		96
80) n-Propylbenzene	9.063	91	612780	41.20	ug/L		94
81) Trans-1,4-dichloro-2-b...	9.106	53	35335	49.36	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	142953	45.32	ug/L		85
83) 4-Chlorotoluene	9.251	126	154279	47.12	ug/L		74
84) 1,3,5-Trimethylbenzene	9.224	105	455407	43.13	ug/L		90
85) Tert-butylbenzene	9.470	119	435667	47.49	ug/L		92
87) 1,2,4-Trimethylbenzene	9.518	105	484142	44.14	ug/L		90
88) Sec-Butylbenzene	9.641	105	633025	45.02	ug/L		92
89) 1,3-Dichlorobenzene	9.743	146	314210	50.89	ug/L		100
90) 4-Isopropyltoluene	9.753	119	584348	48.87	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	308484	49.80	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	291351	49.41	ug/L		97
94) n-Butylbenzene	10.058	91	490393	41.55	ug/L	#	86
95) 1,2-Dibromo-3-chloropr...	10.679	75	20987	42.41	ug/L	#	65
96) 1,2,4-Trichlorobenzene	11.225	180	185499	51.84	ug/L		97
97) Hexachlorobutadiene	11.305	225	85212	51.13	ug/L		98
98) Naphthalene	11.412	128	439191	51.50	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	155260	51.83	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62523.D
Acq On : 25 Mar 2009 17:16
Operator : SM
Sample : 903069-002MS
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 12 Sample Multiplier: 1

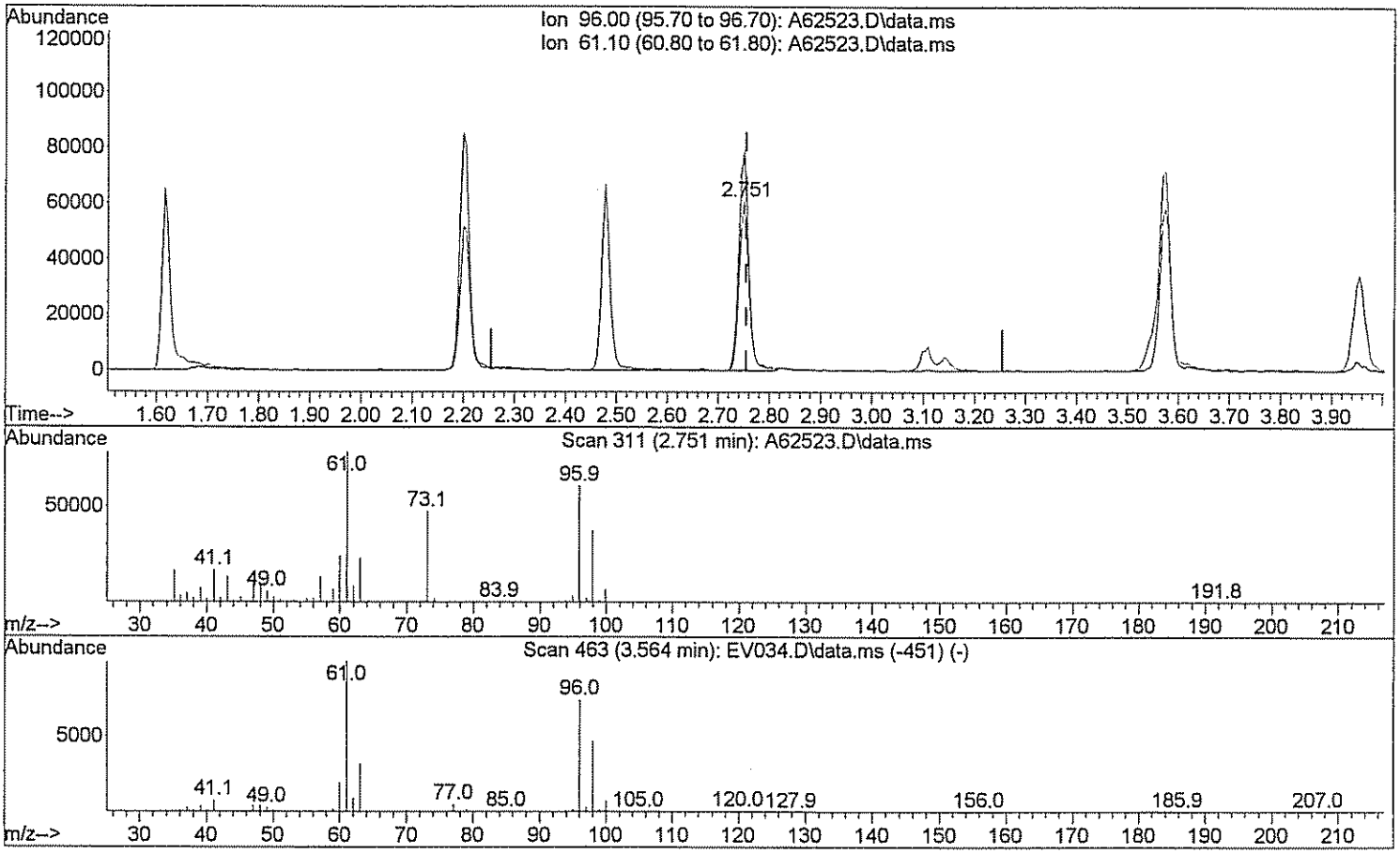
Quant Time: Mar 26 16:44:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62523.D
Acq On : 25 Mar 2009 17:16
Operator : SM
Sample : 903069-002MS
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 26 09:05:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62523.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 35.74 ug/L

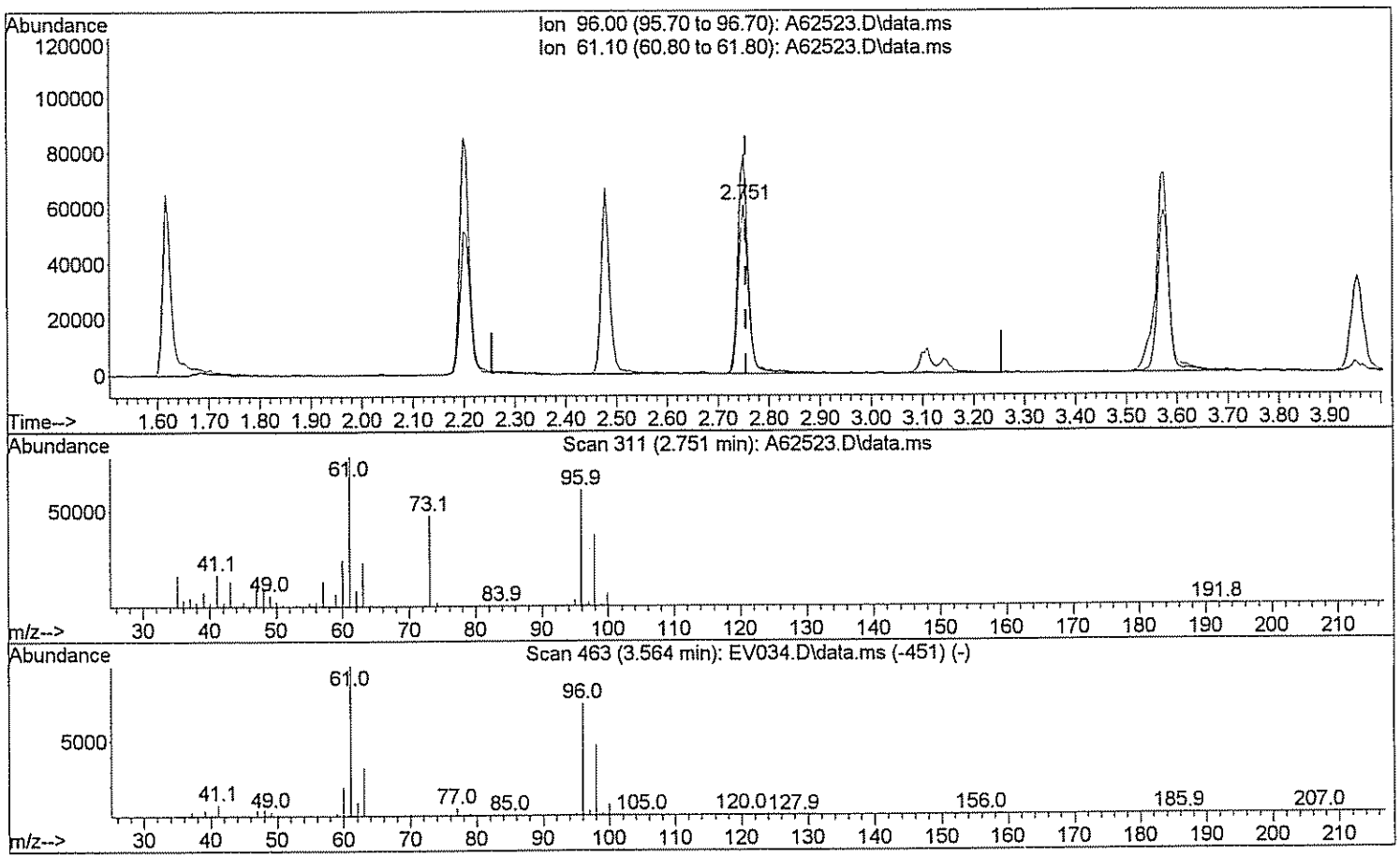
response 81874

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	132.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62523.D
Acq On : 25 Mar 2009 17:16
Operator : SM
Sample : 903069-002MS
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 26 09:05:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62523.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 77.47 ug/L m

3/26/09

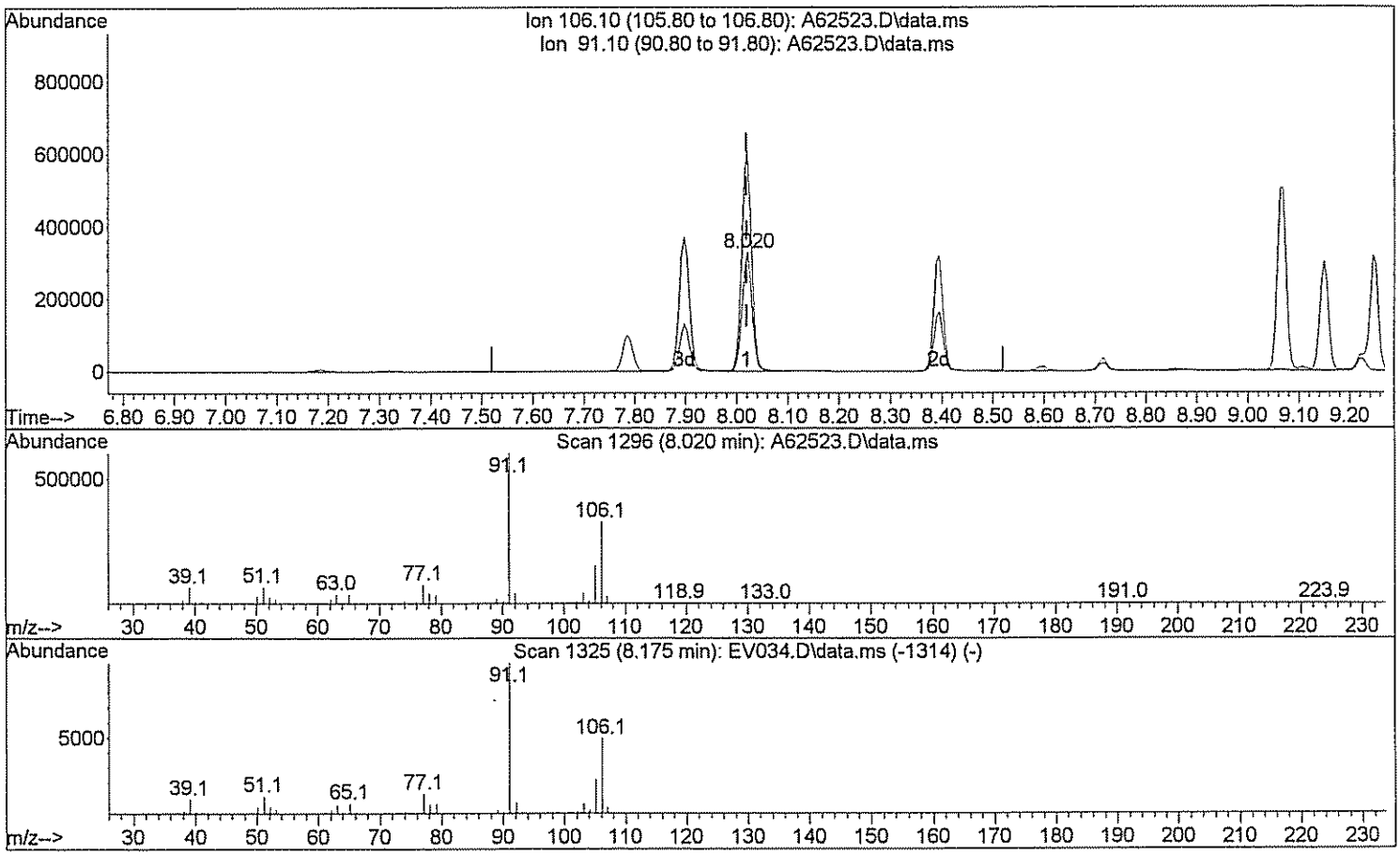
response 177471

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	61.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62523.D
Acq On : 25 Mar 2009 17:16
Operator : SM
Sample : 903069-002MS
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 26 09:05:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62523.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 86.06 ug/L

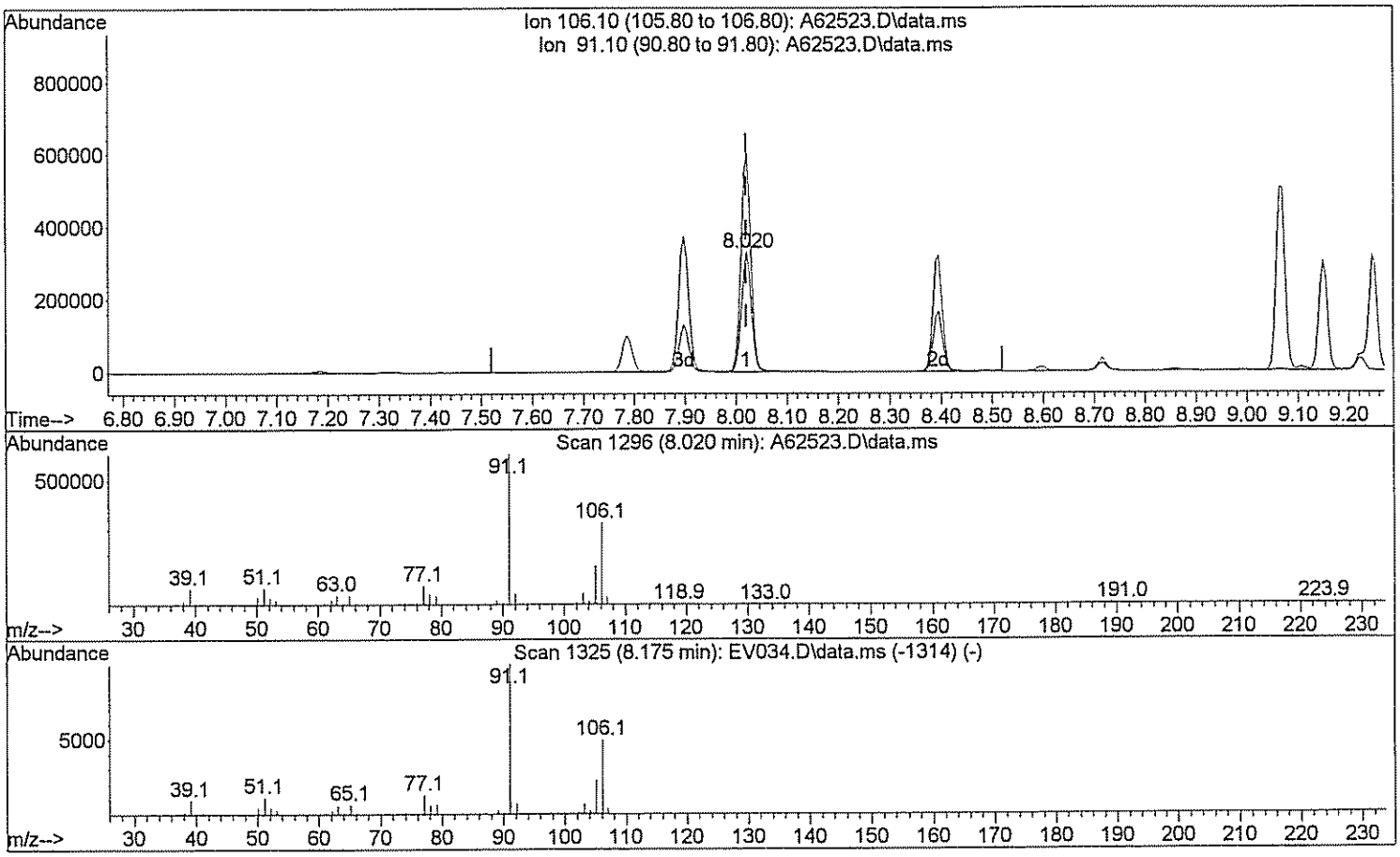
response 440927

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	183.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62523.D
Acq On : 25 Mar 2009 17:16
Operator : SM
Sample : 903069-002MS
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 26 09:05:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62523.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 127.72 ug/L m DM 3/26/09

response 654396

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	123.77#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MSD
Sample Volume :	.5	Lab File ID :	A62525.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	460	
71-55-6	1,1,1-Trichloroethane	480	
79-34-5	1,1,2,2-Tetrachloroethane	420	
79-00-5	1,1,2-Trichloroethane	470	
75-34-3	1,1-Dichloroethane	460	
75-35-4	1,1-Dichloroethene	470	
563-58-6	1,1-Dichloropropene	410	
87-61-6	1,2,3-Trichlorobenzene	520	
96-18-4	1,2,3-Trichloropropane	450	
120-82-1	1,2,4-Trichlorobenzene	520	
95-63-6	1,2,4-Trimethylbenzene	420	
96-12-8	1,2-Dibromo-3-Chloropropane	410	
95-50-1	1,2-Dichlorobenzene	470	
107-06-2	1,2-Dichloroethane	420	
78-87-5	1,2-Dichloropropane	400	
108-67-8	1,3,5-trimethylbenzene	430	
541-73-1	1,3-Dichlorobenzene	500	
142-28-9	1,3-Dichloropropane	390	
106-46-7	1,4-Dichlorobenzene	490	
594-20-7	2,2-Dichloropropane	430	
78-93-3	2-Butanone	700	
95-49-8	2-Chlorotoluene	460	
591-78-6	2-Hexanone	710	
106-43-4	4-Chlorotoluene	470	
99-87-6	4-Isopropyltoluene	480	
108-10-1	4-Methyl-2-Pentanone	750	
67-64-1	Acetone	600	
71-43-2	Benzene	390	
108-86-1	Bromobenzene	500	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MSD
Sample Volume :	.5	Lab File ID :	A62525.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	560	
75-27-4	Bromodichloromethane	400	
75-25-2	Bromoform	470	
74-83-9	Bromomethane	880	
75-15-0	Carbon Disulfide	400	
56-23-5	Carbon Tetrachloride	530	
108-90-7	Chlorobenzene	430	
75-00-3	Chloroethane	660	
67-66-3	Chloroform	450	
74-87-3	Chloromethane	410	
110-82-7	Cyclohexane	430	
124-48-1	Dibromochloromethane	430	
74-95-3	Dibromomethane	410	
75-71-8	Dichlorodifluoromethane	380	
100-41-4	Ethylbenzene	400	
106-93-4	Ethylene DiBromide	410	
76-13-1	Freon 113	770	
87-68-3	Hexachlorobutadiene	510	
98-82-8	Isopropylbenzene	430	
79-20-9	Methyl Acetate	330	
108-87-2	Methylcyclohexane	470	
75-09-2	Methylene Chloride	410	
91-20-3	Naphthalene	500	
135-98-8	Sec-Butylbenzene	440	
100-42-5	Styrene	420	
127-18-4	Tetrachloroethylene	510	
108-88-3	Toluene	480	
79-01-6	Trichloroethene	390	
75-69-4	Trichlorofluoromethane	620	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-055-2/9MSD
Sample Volume :	.5	Lab File ID :	A62525.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	320	
75-01-4	Vinyl Chloride	350	
156-59-2	cis-1,2-Dichloroethene	430	
10061-01-5	cis-1,3-Dichloropropene	370	
136777-61-2	m,p-Xylene	870	
104-51-8	n-Butylbenzene	400	
103-65-1	n-Propylbenzene	420	
95-47-6	o-Xylene	410	
98-06-6	tert-Butylbenzene	460	
1634-04-4	tert-butyl methyl ether	490	
156-60-5	trans-1,2-dichloroethene	480	
10061-02-6	trans-1,3-dichloropropene	450	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62525.D
Acq On : 25 Mar 2009 17:57
Operator : SM
Sample : 903069-002MSD
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 26 16:44:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	439633	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	393098	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	451928	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	123728	52.98	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 105.96%				
54) Toluene-d8	6.142	98	496624	54.52	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 109.04%				
76) 4-Bromofluorobenzene	8.881	95	214136	50.27	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.54%				
92) 1,2-Dichlorobenzene-d4	10.085	152	242154	57.96	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.92%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	29681	38.10	ug/L		98
3) Chloromethane	1.322	50	62303	40.65	ug/L		93
4) Vinyl chloride	1.386	62	64173	35.28	ug/L		99
5) Bromomethane	1.616	94	82758	88.56	ug/L		91
6) Chloroethane	1.686	64	83873	65.67	ug/L		100
7) Trichlorofluoromethane	1.830	101	164295	61.87	ug/L		99
8) Ethyl Ether	2.039	59	72725	46.51	ug/L		95
9) Freon 113	2.173	101	107025	76.93	ug/L		92
10) Acrolein	2.183	56	60403	192.10	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	136545	765.26	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	75811	47.48	ug/L		93
13) Iodomethane	2.328	142	65436	35.23	ug/L		99
14) Acetonitrile	2.478	40	609332	526.53	ug/L	#	1
15) Methylene chloride	2.590	84	84186	40.97	ug/L		89
16) Trans-1,2-dichloroethene	2.750	96	87321	47.61	ug/L		82
17) Isopropyl ether	3.087	45	297625	41.71	ug/L		99
18) 1,1-Dichloroethane	3.104	63	151588	46.12	ug/L		97
19) Acetone	2.296	43	44720	59.91	ug/L		96
20) Methyl Acetate	4.259	43	75234	33.17	ug/L	#	100
21) MTBE	2.734	73	236947	49.48	ug/L		100
22) Carbon disulfide	2.349	76	221931	40.13	ug/L		100
24) Acrylonitrile	2.825	53	116072	208.67	ug/L		99
25) Chloroprene	3.141	53	126768	40.38	ug/L		88
26) n-Heptane	4.559	71	3438	2.14	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	118741	43.18	ug/L	#	78
28) Cis-1,2-dichloroethene	3.574	96	96239	43.24	ug/L		99

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62525.D
Acq On : 25 Mar 2009 17:57
Operator : SM
Sample : 903069-002MSD
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 26 16:44:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.750	96	187392m	79.54	ug/L		
30) Propionitrile	3.735	54	103762	377.78	ug/L		97
31) Bromochloromethane	3.778	128	54014	56.25	ug/L	#	64
32) Tetrahydrofuran	3.783	72	18323	40.63	ug/L	#	22
33) Chloroform	3.836	83	169446	45.21	ug/L		98
34) Cyclohexane	3.933	56	140489	42.85	ug/L		87
35) 1,1,1-Trichloroethane	3.954	97	134658	48.14	ug/L		100
36) Carbon tetrachloride	4.061	117	127662	53.31	ug/L		95
37) Methacrylonitrile	3.826	41	648229	433.72	ug/L	#	19
38) Methylcyclohexane	4.987	83	138876	46.69	ug/L		90
39) Isobutyl Alcohol	4.259	43	75234	577.19	ug/L		93
42) 2-Butanone	3.612	43	90463	70.55	ug/L	#	92
43) 1,1-Dichloropropene	4.099	75	110171	41.34	ug/L		96
44) Vinyl Acetate	3.136	43	94747	31.60	ug/L		97
45) Benzene	4.280	78	326680	39.26	ug/L		100
46) 1,2-Dichloroethane	4.371	62	109471	41.97	ug/L	#	82
47) Trichloroethene	4.885	95	83486	39.07	ug/L	#	68
48) 1,2-Dichloropropane	5.158	63	86380	40.52	ug/L		98
49) Methyl methacrylate	5.259	69	55427	35.90	ug/L		98
50) Dibromomethane	5.281	93	53705	40.95	ug/L		98
51) Bromodichloromethane	5.431	83	112063	40.27	ug/L	#	99
52) 2-Chloroethylvinyl ether	6.212	63	39574	46.62	ug/L	#	49
53) Cis-1,3-dichloropropene	5.917	75	124939	37.25	ug/L		93
55) Toluene	6.217	92	264040	48.42	ug/L		98
56) Trans-1,3-dichloropropene	6.570	75	135729	44.67	ug/L		98
57) Ethyl methacrylate	6.618	69	123530	45.27	ug/L		96
58) 1,1,2-Trichloroethane	6.773	83	76586	46.80	ug/L		92
60) 4-Methyl-2-pentanone	6.094	43	198226	75.22	ug/L		97
61) 2-Hexanone	7.062	43	135900	71.44	ug/L	#	96
62) Tetrachloroethene	6.789	166	133158	51.11	ug/L		95
63) 1,3-Dichloropropane	6.971	76	146944	39.08	ug/L		92
64) Dibromochloromethane	7.180	129	116854	42.93	ug/L		98
65) 1,2-Dibromoethane	7.314	107	95066	40.93	ug/L		97
66) 1-Chlorohexane	7.785	91	147132	37.65	ug/L		94
67) Chlorobenzene	7.806	112	332432	43.38	ug/L		88
68) 1,1,1,2-Tetrachloroethane	7.908	131	125673	45.79	ug/L		100
69) Ethylbenzene	7.897	91	525148	40.04	ug/L		96
70) m,p-Xylene	8.020	106	448481	87.04	ug/L		85
71) o-Xylene	8.394	106	216410	41.45	ug/L		87
72) Xylene (Total)	8.020	106	668939m	126.38	ug/L		
73) Styrene	8.421	104	363768	41.93	ug/L		97
74) Bromoform	8.598	173	78831	46.70	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62525.D
Acq On : 25 Mar 2009 17:57
Operator : SM
Sample : 903069-002MSD
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 26 16:44:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

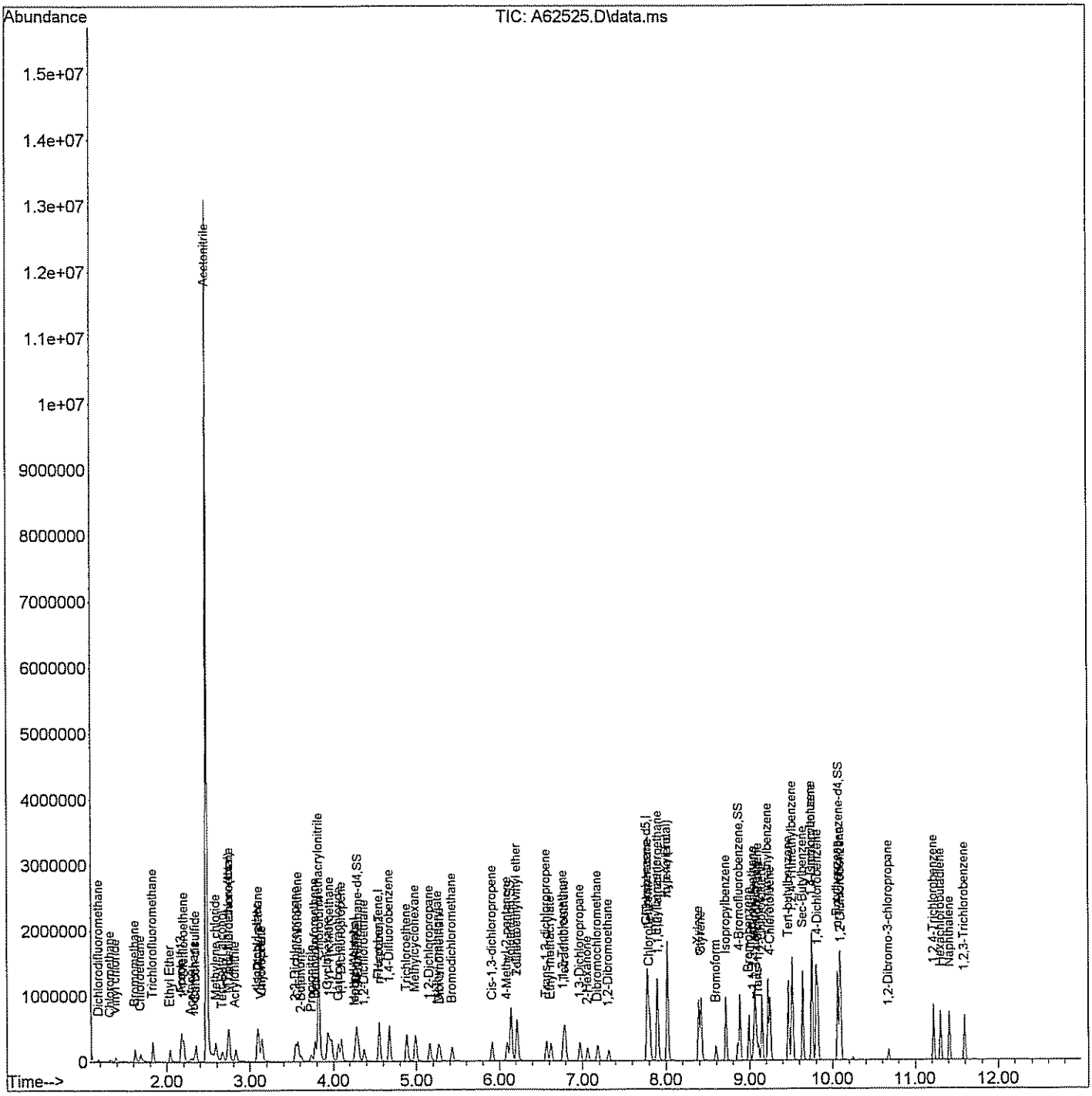
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	481025	43.33	ug/L		97
77) Bromobenzene	8.994	156	152189	50.07	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	123981	41.53	ug/L		95
79) 1,2,3-Trichloropropane	9.084	110	39567	44.62	ug/L		98
80) n-Propylbenzene	9.068	91	637937	41.51	ug/L		95
81) Trans-1,4-dichloro-2-b...	9.106	53	34837	47.09	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	150423	46.16	ug/L		86
83) 4-Chlorotoluene	9.250	126	159519	47.16	ug/L		73
84) 1,3,5-Trimethylbenzene	9.224	105	467413	42.85	ug/L		92
85) Tert-butylbenzene	9.470	119	438897	46.31	ug/L		93
87) 1,2,4-Trimethylbenzene	9.518	105	482190	42.55	ug/L		91
88) Sec-Butylbenzene	9.641	105	645217	44.42	ug/L		94
89) 1,3-Dichlorobenzene	9.748	146	318262	49.90	ug/L		99
90) 4-Isopropyltoluene	9.753	119	593509	48.05	ug/L		94
91) 1,4-Dichlorobenzene	9.823	146	314678	49.17	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	284956	46.77	ug/L		95
94) n-Butylbenzene	10.058	91	487539	39.99	ug/L	#	86
95) 1,2-Dibromo-3-chloropr...	10.679	75	20856	40.80	ug/L	#	63
96) 1,2,4-Trichlorobenzene	11.224	180	190569	51.55	ug/L		95
97) Hexachlorobutadiene	11.305	225	87601	50.88	ug/L		97
98) Naphthalene	11.412	128	442371	50.21	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	161878	52.31	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62525.D
Acq On : 25 Mar 2009 17:57
Operator : SM
Sample : 903069-002MSD
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 13 Sample Multiplier: 1

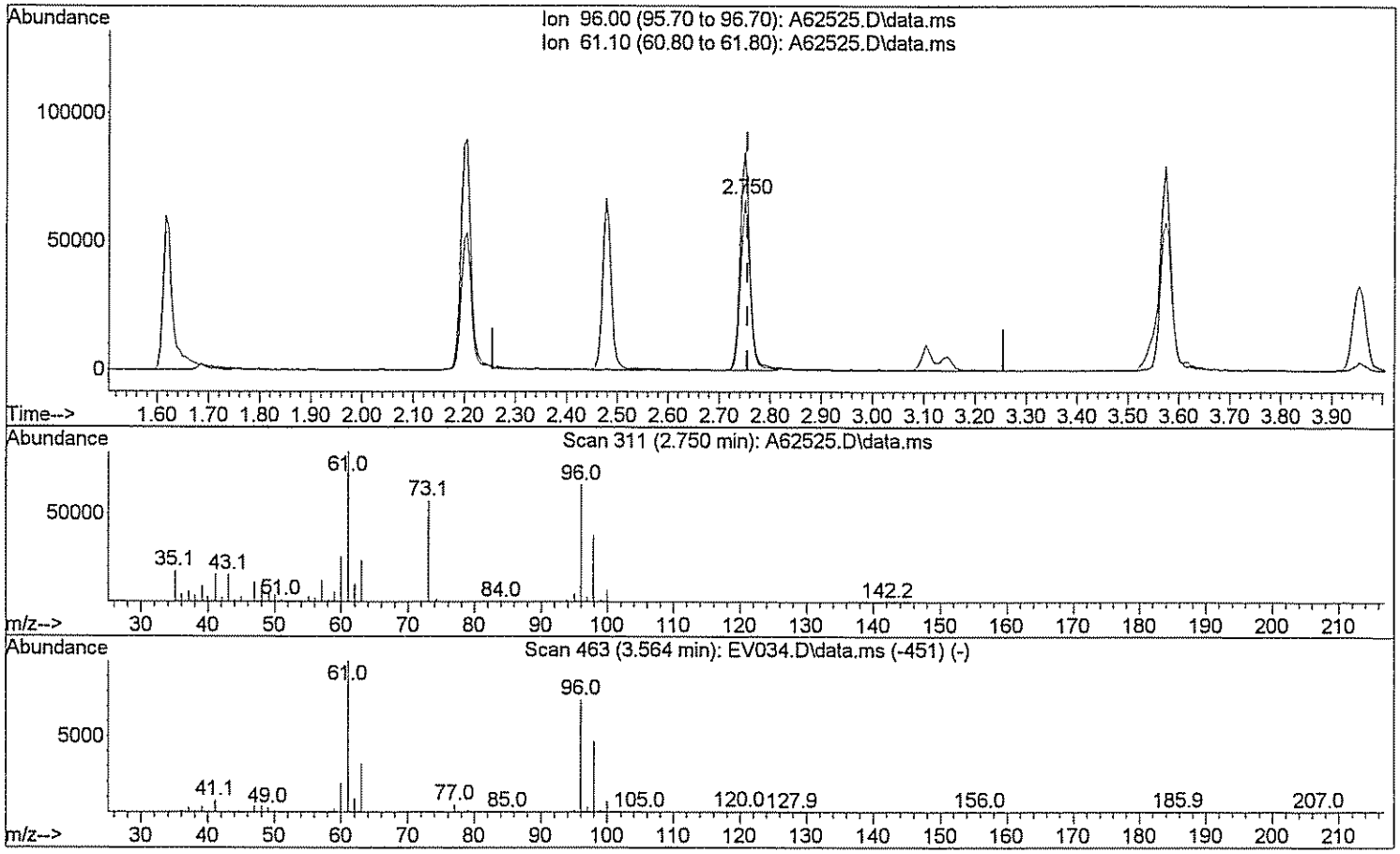
Quant Time: Mar 26 16:44:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62525.D
Acq On : 25 Mar 2009 17:57
Operator : SM
Sample : 903069-002MSD
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 26 09:05:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62525.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 37.06 ug/L

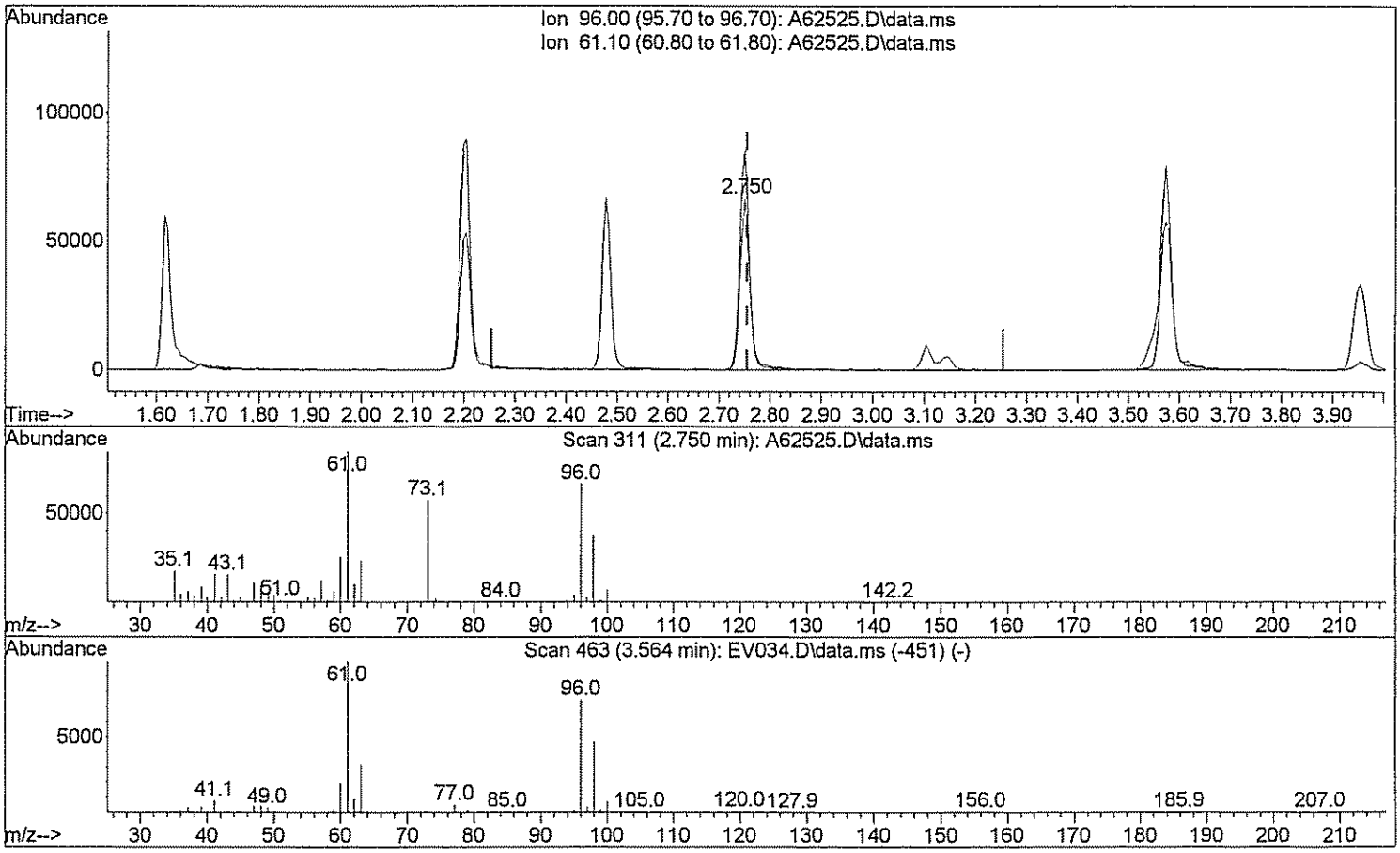
response 87321

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	131.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62525.D
Acq On : 25 Mar 2009 17:57
Operator : SM
Sample : 903069-002MSD
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 26 09:05:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62525.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 79.54 ug/L m Sm 3/26/09

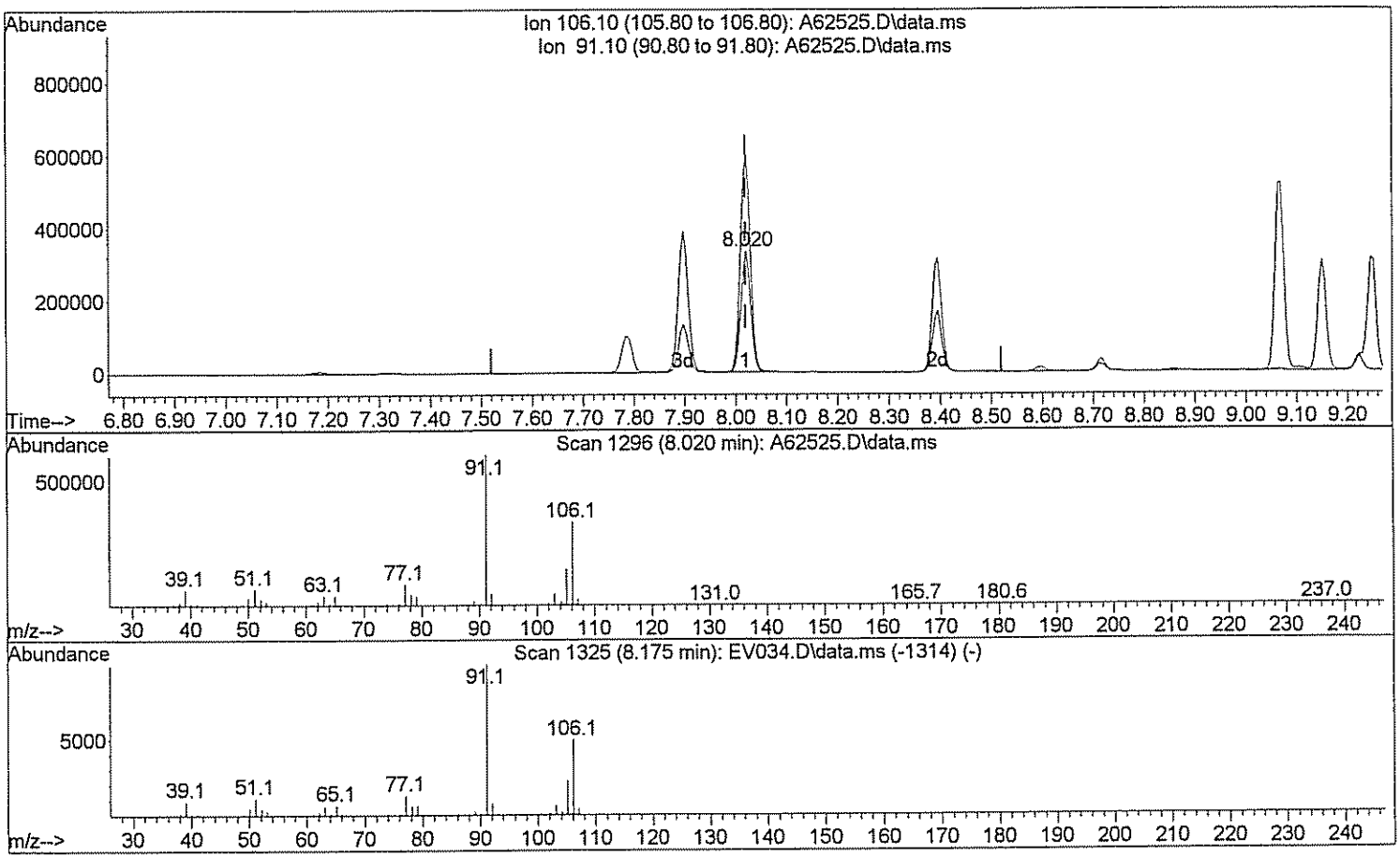
response 187392

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	61.08#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62525.D
Acq On : 25 Mar 2009 17:57
Operator : SM
Sample : 903069-002MSD
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 26 09:05:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62525.D\data.ms

(72) Xylene (Total)

8.020min (-0.000) 84.73 ug/L

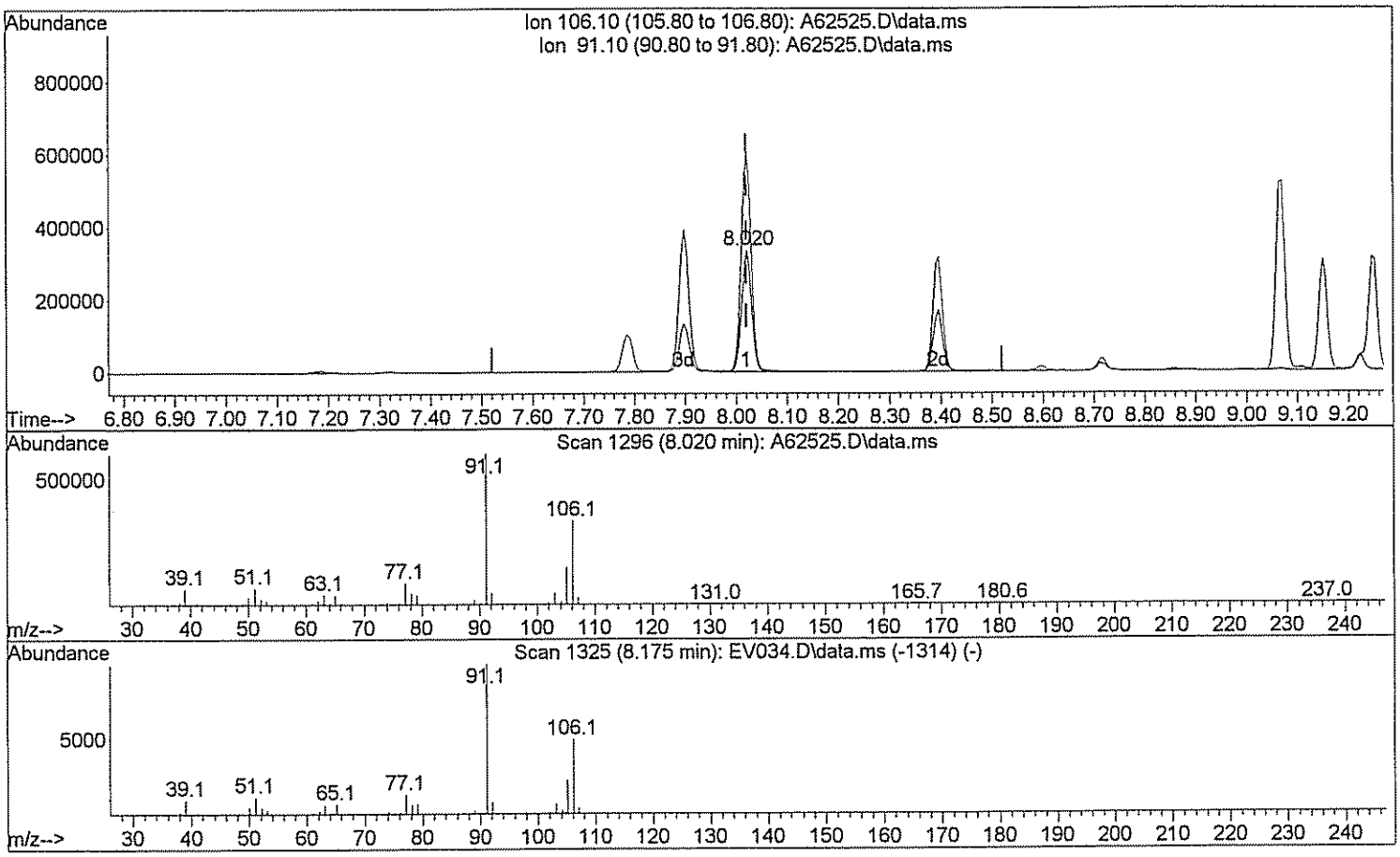
response 448481

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	184.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62525.D
Acq On : 25 Mar 2009 17:57
Operator : SM
Sample : 903069-002MSD
Misc : OUI-16GW40-0309,CH2M HILL,10X
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 26 09:05:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62525.D\data.ms

(72) Xylene (Total)

8.020min (-0.000) 126.38 ug/L m

response 668939

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	123.60#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MS
Sample Volume :	5	Lab File ID :	A62527.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	53	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	46	
79-00-5	1,1,2-Trichloroethane	52	
75-34-3	1,1-Dichloroethane	54	
75-35-4	1,1-Dichloroethene	59	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	61	
96-18-4	1,2,3-Trichloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	49	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
95-50-1	1,2-Dichlorobenzene	54	
107-06-2	1,2-Dichloroethane	46	
78-87-5	1,2-Dichloropropane	44	
108-67-8	1,3,5-trimethylbenzene	50	
541-73-1	1,3-Dichlorobenzene	56	
142-28-9	1,3-Dichloropropane	45	
106-46-7	1,4-Dichlorobenzene	57	
594-20-7	2,2-Dichloropropane	50	
78-93-3	2-Butanone	76	
95-49-8	2-Chlorotoluene	54	
591-78-6	2-Hexanone	82	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	83	
67-64-1	Acetone	73	
71-43-2	Benzene	46	
108-86-1	Bromobenzene	57	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MS
Sample Volume :	5	Lab File ID :	A62527.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	63	
75-27-4	Bromodichloromethane	46	
75-25-2	Bromoform	52	
74-83-9	Bromomethane	98	
75-15-0	Carbon Disulfide	48	
56-23-5	Carbon Tetrachloride	65	
108-90-7	Chlorobenzene	50	
75-00-3	Chloroethane	78	
67-66-3	Chloroform	51	
74-87-3	Chloromethane	42	
110-82-7	Cyclohexane	56	
124-48-1	Dibromochloromethane	48	
74-95-3	Dibromomethane	48	
75-71-8	Dichlorodifluoromethane	56	
100-41-4	Ethylbenzene	46	
106-93-4	Ethylene DiBromide	45	
76-13-1	Freon 113	98	
87-68-3	Hexachlorobutadiene	64	
98-82-8	Isopropylbenzene	52	
79-20-9	Methyl Acetate	38	
108-87-2	Methylcyclohexane	62	
75-09-2	Methylene Chloride	46	
91-20-3	Naphthalene	58	
135-98-8	Sec-Butylbenzene	53	
100-42-5	Styrene	47	
127-18-4	Tetrachloroethylene	59	
108-88-3	Toluene	55	
79-01-6	Trichloroethene	51	
75-69-4	Trichlorofluoromethane	79	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MS
Sample Volume :	5	Lab File ID :	A62527.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	30	
75-01-4	Vinyl Chloride	41	
156-59-2	cis-1,2-Dichloroethene	52	
10061-01-5	cis-1,3-Dichloropropene	42	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	49	
103-65-1	n-Propylbenzene	48	
95-47-6	o-Xylene	48	
98-06-6	tert-Butylbenzene	54	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	58	
10061-02-6	trans-1,3-dichloropropene	50	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62527.D
Acq On : 25 Mar 2009 18:37
Operator : SM
Sample : 903069-007MS
Misc : OUI-16GW02-0309,CHM HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 26 16:45:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.554	96	438634	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.677	114	398692	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	458004	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	123592	53.04	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.08%				
54) Toluene-d8	6.142	98	495341	53.62	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 107.24%				
76) 4-Bromofluorobenzene	8.881	95	212866	49.31	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.62%				
92) 1,2-Dichlorobenzene-d4	10.085	152	246256	58.16	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.32%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	43814	56.38	ug/L		98
3) Chloromethane	1.328	50	65099	42.57	ug/L		95
4) Vinyl chloride	1.387	62	73747	40.63	ug/L		98
5) Bromomethane	1.617	94	96296	98.01	ug/L		96
6) Chloroethane	1.686	64	99692	78.23	ug/L		94
7) Trichlorofluoromethane	1.831	101	211000	79.25	ug/L		97
8) Ethyl Ether	2.039	59	82652	52.97	ug/L		96
9) Freon 113	2.173	101	135641	97.72	ug/L		90
10) Acrolein	2.189	56	58425	186.23	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	161012	904.44	ug/L	#	47
12) 1,1-Dichloroethene	2.200	96	93970	58.98	ug/L		90
13) Iodomethane	2.328	142	75974	41.00	ug/L		97
14) Acetonitrile	2.478	40	726983	623.16	ug/L	#	1
15) Methylene chloride	2.585	84	93798	45.56	ug/L		100
16) Trans-1,2-dichloroethene	2.751	96	106850	58.40	ug/L		80
17) Isopropyl ether	3.088	45	345579	48.54	ug/L		98
18) 1,1-Dichloroethane	3.104	63	179034	54.59	ug/L		98
19) Acetone	2.296	43	54255	72.63	ug/L		92
20) Methyl Acetate	4.259	43	84808	38.04	ug/L	#	100
21) MTBE	2.735	73	273050	57.15	ug/L		100
22) Carbon disulfide	2.349	76	268909	48.58	ug/L		100
24) Acrylonitrile	2.831	53	123323	222.21	ug/L		98
25) Chloroprene	3.141	53	160875	51.36	ug/L		90
26) n-Heptane	4.554	71	3529	2.20	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	137985	50.29	ug/L	#	74
28) Cis-1,2-dichloroethene	3.575	96	116759	52.58	ug/L		100

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62527.D
Acq On : 25 Mar 2009 18:37
Operator : SM
Sample : 903069-007MS
Misc : OUI-16GW02-0309,CHM HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 26 16:45:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	230124m	97.90	ug/L		
30) Propionitrile	3.735	54	121609	443.77	ug/L		99
31) Bromochloromethane	3.783	128	60652	63.31	ug/L	#	64
32) Tetrahydrofuran	3.789	72	21442	47.66	ug/L	#	22
33) Chloroform	3.831	83	189436	50.66	ug/L		100
34) Cyclohexane	3.933	56	184029	56.46	ug/L		88
35) 1,1,1-Trichloroethane	3.954	97	166267	59.57	ug/L		99
36) Carbon tetrachloride	4.061	117	156283	65.41	ug/L		99
37) Methacrylonitrile	3.821	41	730377	489.80	ug/L	#	16
38) Methylcyclohexane	4.987	83	182890	61.63	ug/L		89
39) Isobutyl Alcohol	4.259	43	84808	652.13	ug/L		86
42) 2-Butanone	3.612	43	99004	76.12	ug/L		94
43) 1,1-Dichloropropene	4.093	75	138000	51.06	ug/L		100
44) Vinyl Acetate	3.136	43	89977	29.59	ug/L	#	95
45) Benzene	4.281	78	390131	46.23	ug/L		100
46) 1,2-Dichloroethane	4.372	62	122033	46.13	ug/L	#	86
47) Trichloroethene	4.880	95	110781	51.12	ug/L	#	75
48) 1,2-Dichloropropane	5.158	63	96256	44.52	ug/L		98
49) Methyl methacrylate	5.260	69	62829	40.13	ug/L		94
50) Dibromomethane	5.276	93	63940	48.07	ug/L		94
51) Bromodichloromethane	5.431	83	128891	45.66	ug/L	#	98
52) 2-Chloroethylvinyl ether	6.212	63	44170	51.31	ug/L	#	49
53) Cis-1,3-dichloropropene	5.912	75	142406	41.86	ug/L		98
55) Toluene	6.217	92	304226	55.00	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	155758	50.54	ug/L		96
57) Ethyl methacrylate	6.624	69	143148	51.73	ug/L		99
58) 1,1,2-Trichloroethane	6.774	83	85490	51.51	ug/L		90
60) 4-Methyl-2-pentanone	6.094	43	222966	83.48	ug/L		97
61) 2-Hexanone	7.063	43	157322	81.60	ug/L		97
62) Tetrachloroethene	6.790	166	155601	58.93	ug/L		99
63) 1,3-Dichloropropane	6.972	76	169970	44.61	ug/L		90
64) Dibromochloromethane	7.186	129	131980	47.84	ug/L		99
65) 1,2-Dibromoethane	7.314	107	106346	45.18	ug/L		99
66) 1-Chlorohexane	7.785	91	176030	44.45	ug/L		94
67) Chlorobenzene	7.806	112	386845	49.82	ug/L		84
68) 1,1,1,2-Tetrachloroethane	7.908	131	147331	52.97	ug/L		96
69) Ethylbenzene	7.897	91	615608	46.31	ug/L		95
70) m,p-Xylene	8.020	106	525940	100.72	ug/L		85
71) o-Xylene	8.395	106	255041	48.20	ug/L		87
72) Xylene (Total)	8.020	106	789228m	147.13	ug/L		
73) Styrene	8.421	104	411433	46.79	ug/L		96
74) Bromoform	8.598	173	89867	52.53	ug/L		100

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62527.D
Acq On : 25 Mar 2009 18:37
Operator : SM
Sample : 903069-007MS
Misc : OUI-16GW02-0309,CHM HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

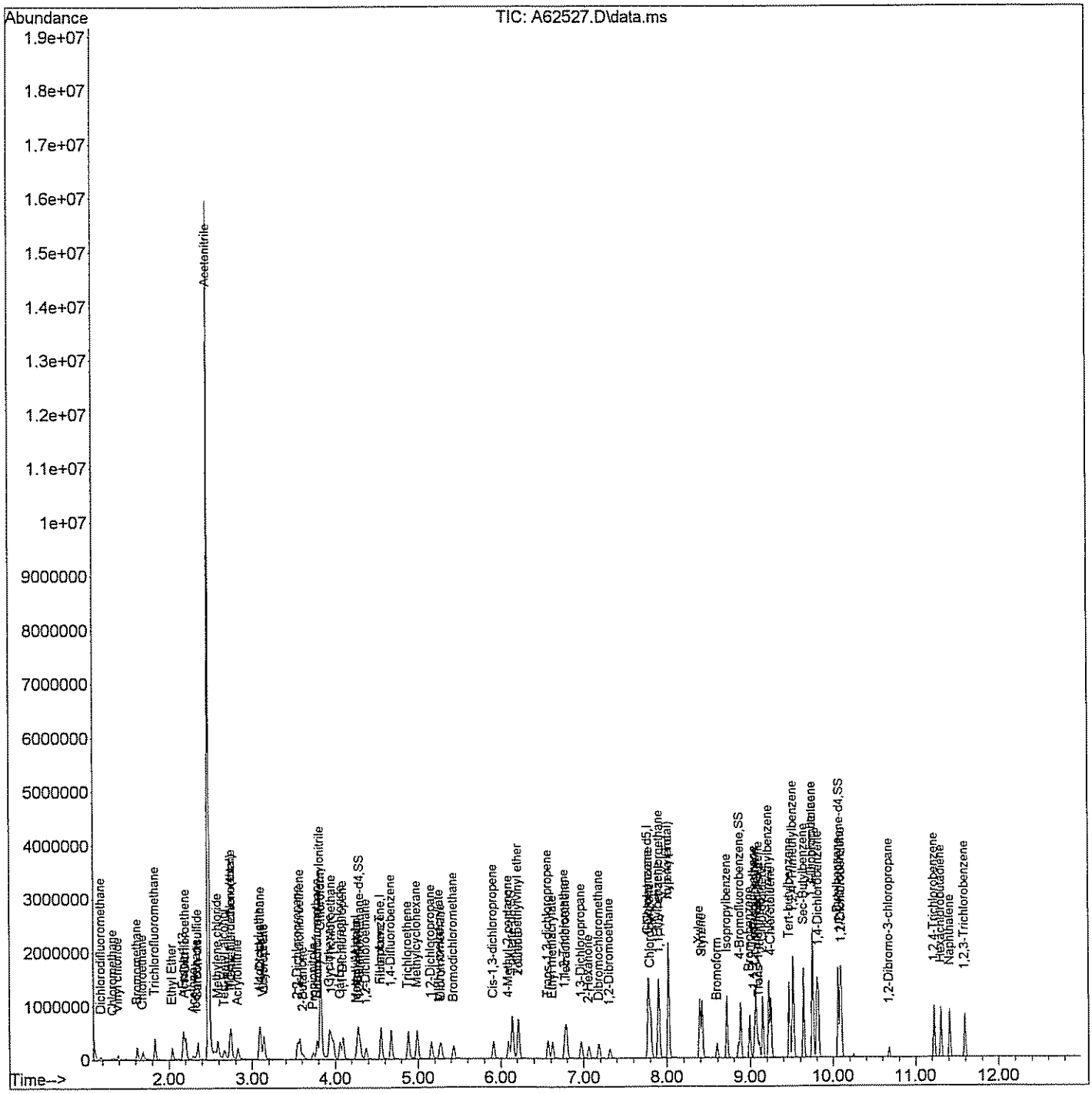
Quant Time: Mar 26 16:45:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	582757	51.80	ug/L		97
77) Bromobenzene	8.994	156	174544	56.66	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	139460	46.10	ug/L		100
79) 1,2,3-Trichloropropane	9.085	110	43928	48.88	ug/L		99
80) n-Propylbenzene	9.063	91	756002	48.55	ug/L		94
81) Trans-1,4-dichloro-2-b...	9.106	53	42071	56.15	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	177069	53.62	ug/L		85
83) 4-Chlorotoluene	9.251	126	183648	53.58	ug/L		74
84) 1,3,5-Trimethylbenzene	9.224	105	551929	49.93	ug/L		91
85) Tert-butylbenzene	9.470	119	524074	54.56	ug/L		93
87) 1,2,4-Trimethylbenzene	9.518	105	562462	48.98	ug/L		89
88) Sec-Butylbenzene	9.641	105	786776	53.44	ug/L		93
89) 1,3-Dichlorobenzene	9.748	146	362376	56.06	ug/L		97
90) 4-Isopropyltoluene	9.753	119	719678	57.49	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	369162	56.92	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	332544	53.86	ug/L		99
94) n-Butylbenzene	10.058	91	607096	49.13	ug/L	#	88
95) 1,2-Dibromo-3-chloropr...	10.679	75	23380	45.13	ug/L	#	57
96) 1,2,4-Trichlorobenzene	11.225	180	216513	57.79	ug/L		98
97) Hexachlorobutadiene	11.305	225	111659	64.00	ug/L		99
98) Naphthalene	11.412	128	514410	57.62	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	191596	61.09	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62527.D
Acq On : 25 Mar 2009 18:37
Operator : SM
Sample : 903069-007MS
Misc : OUI-16GW02-0309,CHM HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

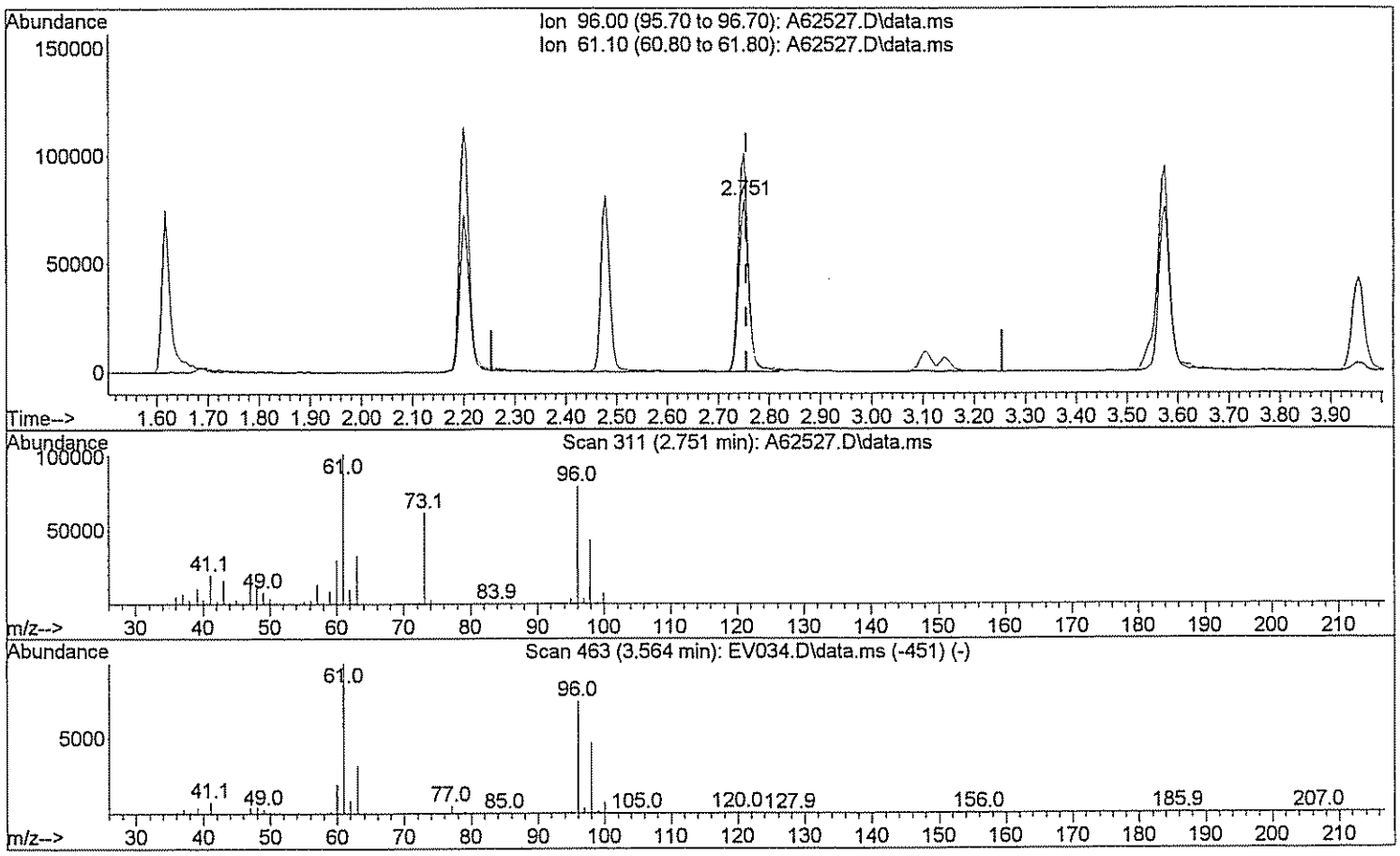
Quant Time: Mar 26 16:45:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62527.D
Acq On : 25 Mar 2009 18:37
Operator : SM
Sample : 903069-007MS
Misc : OUI-16GW02-0309,CHM HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 26 09:05:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62527.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 45.46 ug/L

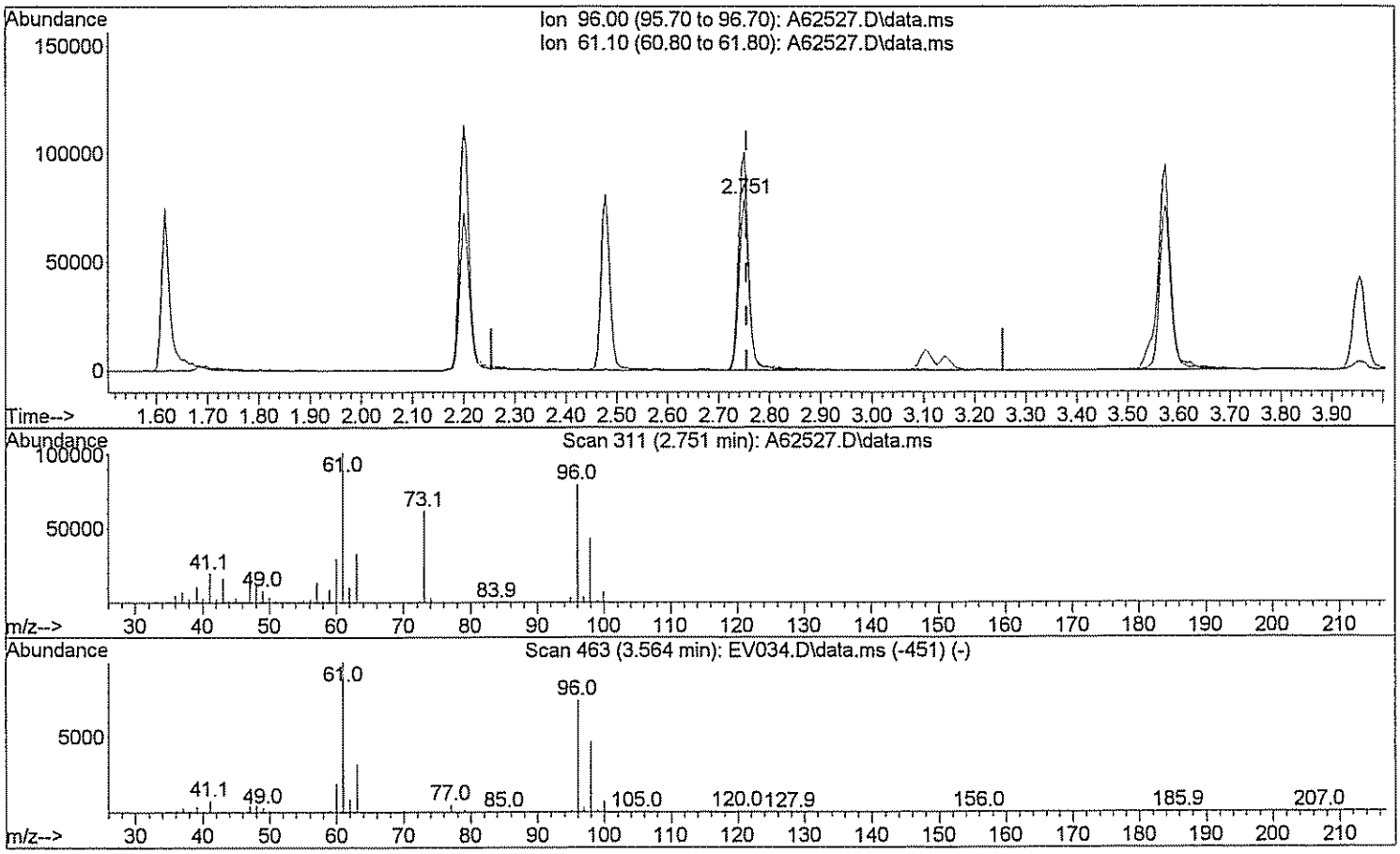
response 106850

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	128.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62527.D
Acq On : 25 Mar 2009 18:37
Operator : SM
Sample : 903069-007MS
Misc : OUI-16GW02-0309,CHM HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 26 09:05:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62527.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 97.90 ug/L m DW 3/26/09

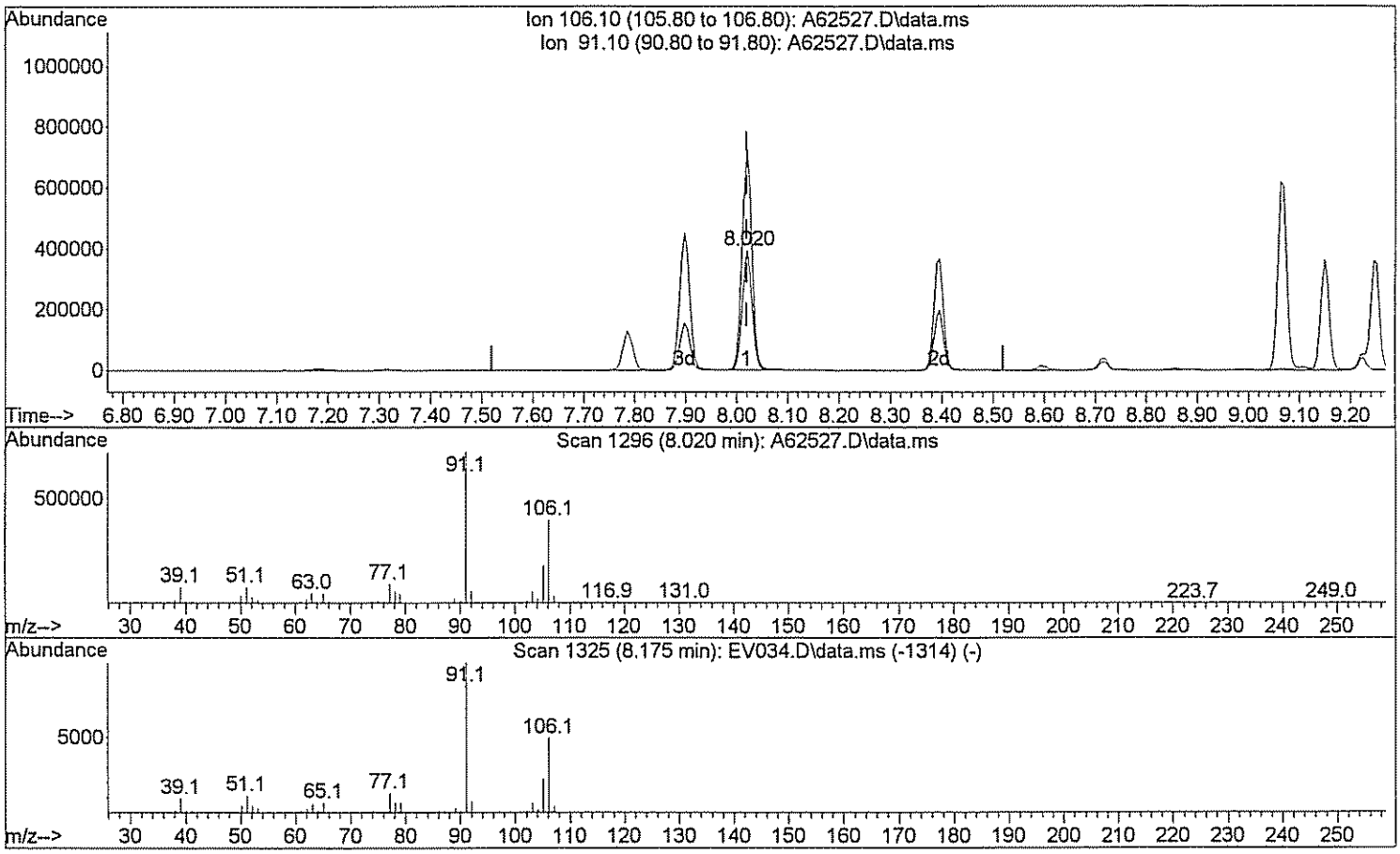
response 230124

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	59.84#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62527.D
Acq On : 25 Mar 2009 18:37
Operator : SM
Sample : 903069-007MS
Misc : OUI-16GW02-0309,CHM HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 26 09:05:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62527.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 98.05 ug/L

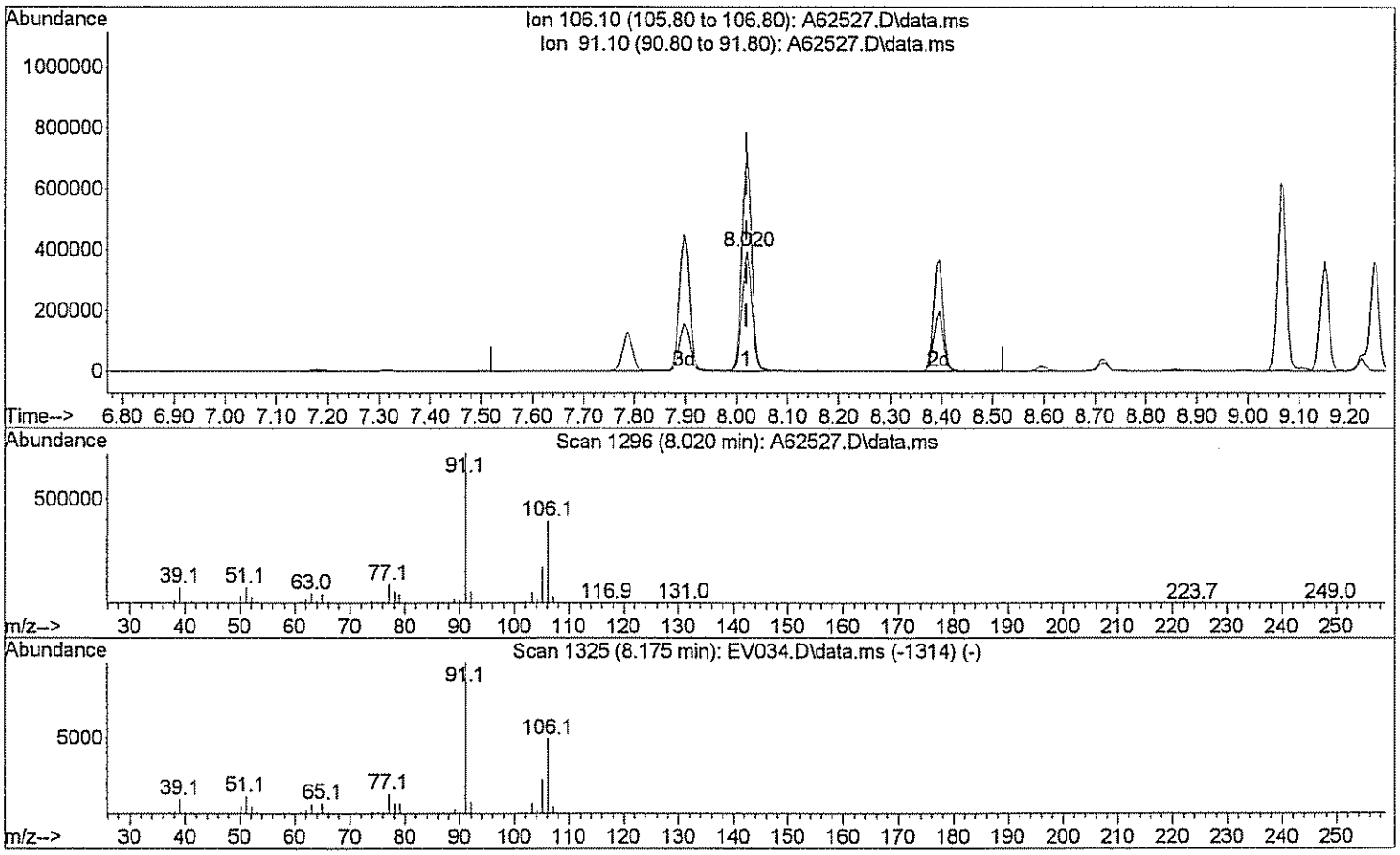
response 525940

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	185.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62527.D
Acq On : 25 Mar 2009 18:37
Operator : SM
Sample : 903069-007MS
Misc : OUI-16GW02-0309,CHM HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 26 09:05:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62527.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 147.13 ug/L m JM 3/26/09

response 789228

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	123.35#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MSD
Sample Volume :	5	Lab File ID :	A62529.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	59	
71-55-6	1,1,1-Trichloroethane	67	
79-34-5	1,1,2,2-Tetrachloroethane	52	
79-00-5	1,1,2-Trichloroethane	58	
75-34-3	1,1-Dichloroethane	60	
75-35-4	1,1-Dichloroethene	65	
563-58-6	1,1-Dichloropropene	56	
87-61-6	1,2,3-Trichlorobenzene	65	
96-18-4	1,2,3-Trichloropropane	55	
120-82-1	1,2,4-Trichlorobenzene	63	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	48	
95-50-1	1,2-Dichlorobenzene	61	
107-06-2	1,2-Dichloroethane	52	
78-87-5	1,2-Dichloropropane	48	
108-67-8	1,3,5-trimethylbenzene	56	
541-73-1	1,3-Dichlorobenzene	62	
142-28-9	1,3-Dichloropropane	49	
106-46-7	1,4-Dichlorobenzene	62	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	82	
95-49-8	2-Chlorotoluene	59	
591-78-6	2-Hexanone	89	
106-43-4	4-Chlorotoluene	59	
99-87-6	4-Isopropyltoluene	62	
108-10-1	4-Methyl-2-Pentanone	92	
67-64-1	Acetone	84	
71-43-2	Benzene	51	
108-86-1	Bromobenzene	63	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MSD
Sample Volume :	5	Lab File ID :	A62529.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	72	
75-27-4	Bromodichloromethane	51	
75-25-2	Bromoform	59	
74-83-9	Bromomethane	100	
75-15-0	Carbon Disulfide	54	
56-23-5	Carbon Tetrachloride	73	
108-90-7	Chlorobenzene	54	
75-00-3	Chloroethane	89	
67-66-3	Chloroform	57	
74-87-3	Chloromethane	53	
110-82-7	Cyclohexane	62	
124-48-1	Dibromochloromethane	54	
74-95-3	Dibromomethane	50	
75-71-8	Dichlorodifluoromethane	60	
100-41-4	Ethylbenzene	51	
106-93-4	Ethylene DiBromide	51	
76-13-1	Freon 113	100	
87-68-3	Hexachlorobutadiene	68	
98-82-8	Isopropylbenzene	56	
79-20-9	Methyl Acetate	43	
108-87-2	Methylcyclohexane	66	
75-09-2	Methylene Chloride	50	
91-20-3	Naphthalene	65	
135-98-8	Sec-Butylbenzene	58	
100-42-5	Styrene	51	
127-18-4	Tetrachloroethylene	64	
108-88-3	Toluene	61	
79-01-6	Trichloroethene	54	
75-69-4	Trichlorofluoromethane	97	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-045-1/9MSD
Sample Volume :	5	Lab File ID :	A62529.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	27	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	57	
10061-01-5	cis-1,3-Dichloropropene	53	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	53	
103-65-1	n-Propylbenzene	52	
95-47-6	o-Xylene	52	
98-06-6	tert-Butylbenzene	59	
1634-04-4	tert-butyl methyl ether	62	
156-60-5	trans-1,2-dichloroethene	60	
10061-02-6	trans-1,3-dichloropropene	56	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62529.D
Acq On : 25 Mar 2009 19:18
Operator : SM
Sample : 903069-007MSD
Misc : OUI-16GW02-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 26 16:46:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	445643	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	404315	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	466769	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	130291	55.03	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 110.06%				
54) Toluene-d8	6.142	98	506186	54.03	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 108.06%				
76) 4-Bromofluorobenzene	8.881	95	220950	50.22	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.44%				
92) 1,2-Dichlorobenzene-d4	10.085	152	246020	57.01	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.02%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	47237	59.82	ug/L		91
3) Chloromethane	1.317	50	82406	53.05	ug/L	#	64
4) Vinyl chloride	1.386	62	87101	47.23	ug/L		99
5) Bromomethane	1.616	94	109159	105.22	ug/L		99
6) Chloroethane	1.686	64	114974	88.81	ug/L		99
7) Trichlorofluoromethane	1.830	101	264055	97.30	ug/L		99
8) Ethyl Ether	2.039	59	90761	57.26	ug/L		96
9) Freon 113	2.173	101	145211	102.97	ug/L		89
10) Acrolein	2.183	56	63363	198.79	ug/L	#	74
11) Tert-Butyl alcohol	2.665	59	181383	1002.85	ug/L	#	47
12) 1,1-Dichloroethene	2.199	96	104611	64.63	ug/L		89
13) Iodomethane	2.328	142	92529	49.15	ug/L		100
14) Acetonitrile	2.478	40	821141	689.11	ug/L	#	1
15) Methylene chloride	2.590	84	105808	50.40	ug/L		98
16) Trans-1,2-dichloroethene	2.750	96	112348	60.43	ug/L		86
17) Isopropyl ether	3.087	45	395775	54.72	ug/L		99
18) 1,1-Dichloroethane	3.104	63	200676	60.23	ug/L		96
19) Acetone	2.296	43	64037	84.21	ug/L		91
20) Methyl Acetate	4.259	43	96363	43.38	ug/L	#	100
21) MTBE	2.734	73	301088	62.03	ug/L		100
22) Carbon disulfide	2.349	76	302451	53.70	ug/L		100
24) Acrylonitrile	2.831	53	143909	255.23	ug/L		100
25) Chloroprene	3.141	53	170412	53.54	ug/L		92
27) 2,2-Dichloropropane	3.548	77	149433	53.60	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	128210	56.83	ug/L		97
29) 1,2-dichloroethene(total)	2.750	96	248637m	104.11	ug/L		

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62529.D
Acq On : 25 Mar 2009 19:18
Operator : SM
Sample : 903069-007MSD
Misc : OUI-16GW02-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 26 16:46:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
30) Propionitrile	3.729	54	128185	460.41 ug/L		97
31) Bromochloromethane	3.778	128	69616	71.53 ug/L	#	64
32) Tetrahydrofuran	3.788	72	23552	51.53 ug/L	#	22
33) Chloroform	3.836	83	216808	57.07 ug/L		96
34) Cyclohexane	3.933	56	204088	61.69 ug/L	#	86
35) 1,1,1-Trichloroethane	3.954	97	189037	66.67 ug/L		99
36) Carbon tetrachloride	4.061	117	176371	72.65 ug/L		97
37) Methacrylonitrile	3.826	41	825408	544.82 ug/L	#	21
38) Methylcyclohexane	4.987	83	197794	65.60 ug/L		91
39) Isobutyl Alcohol	4.259	43	96363	729.32 ug/L		98
42) 2-Butanone	3.612	43	107833	81.76 ug/L		99
43) 1,1-Dichloropropene	4.093	75	152290	55.56 ug/L		99
44) Vinyl Acetate	3.136	43	83073	26.94 ug/L		97
45) Benzene	4.280	78	438074	51.19 ug/L		100
46) 1,2-Dichloroethane	4.371	62	138437	51.60 ug/L	#	88
47) Trichloroethene	4.880	95	118657	54.00 ug/L	#	72
48) 1,2-Dichloropropane	5.163	63	105574	48.15 ug/L		95
49) Methyl methacrylate	5.259	69	67666	42.61 ug/L		89
50) Dibromomethane	5.276	93	67346	49.93 ug/L		98
51) Bromodichloromethane	5.431	83	145009	50.66 ug/L	#	99
52) 2-Chloroethylvinyl ether	6.217	63	48771	55.86 ug/L	#	49
53) Cis-1,3-dichloropropene	5.912	75	183649	53.24 ug/L		97
55) Toluene	6.212	92	340009	60.62 ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	176814	56.57 ug/L		99
57) Ethyl methacrylate	6.624	69	158064	56.32 ug/L		99
58) 1,1,2-Trichloroethane	6.773	83	97439	57.90 ug/L		91
60) 4-Methyl-2-pentanone	6.094	43	251073	92.24 ug/L		93
61) 2-Hexanone	7.062	43	175160	89.15 ug/L		95
62) Tetrachloroethene	6.795	166	172611	64.15 ug/L		99
63) 1,3-Dichloropropane	6.971	76	189769	48.87 ug/L		89
64) Dibromochloromethane	7.180	129	153309	54.53 ug/L		97
65) 1,2-Dibromoethane	7.314	107	123148	51.33 ug/L		99
66) 1-Chlorohexane	7.785	91	197020	48.81 ug/L		94
67) Chlorobenzene	7.806	112	431514	54.53 ug/L		85
68) 1,1,1,2-Tetrachloroethane	7.908	131	167992	59.27 ug/L		96
69) Ethylbenzene	7.897	91	692574	51.12 ug/L		96
70) m,p-Xylene	8.020	106	587915	110.47 ug/L		86
71) o-Xylene	8.394	106	282481	52.39 ug/L		87
72) Xylene (Total)	8.020	106	875379m	160.13 ug/L		
73) Styrene	8.421	104	455256	50.80 ug/L		94
74) Bromoform	8.598	173	103234	59.21 ug/L		97
75) Isopropylbenzene	8.715	105	644764	56.23 ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62529.D
Acq On : 25 Mar 2009 19:18
Operator : SM
Sample : 903069-007MSD
Misc : OUI-16GW02-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 26 16:46:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

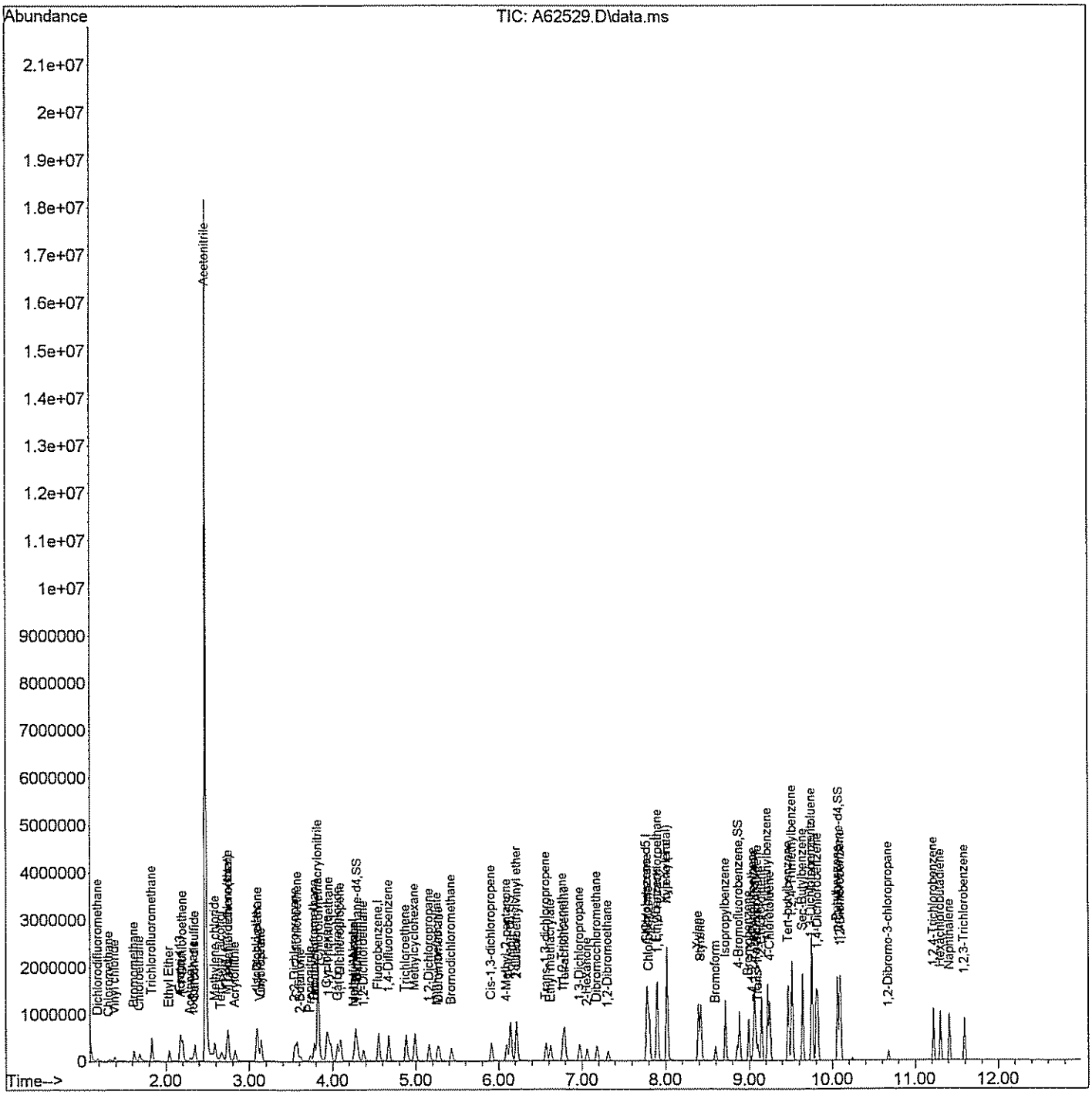
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
77) Bromobenzene	8.994	156	198132	63.11	ug/L		97
78) 1,1,2,2-Tetrachloroethane	9.047	83	158957	51.56	ug/L		96
79) 1,2,3-Trichloropropane	9.084	110	50192	54.80	ug/L		99
80) n-Propylbenzene	9.063	91	827421	52.13	ug/L		92
81) Trans-1,4-dichloro-2-b...	9.106	53	44507	58.28	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	197910	58.80	ug/L		85
83) 4-Chlorotoluene	9.250	126	206950	59.24	ug/L		71
84) 1,3,5-Trimethylbenzene	9.224	105	628097	55.75	ug/L		94
85) Tert-butylbenzene	9.470	119	579376	59.19	ug/L		91
87) 1,2,4-Trimethylbenzene	9.518	105	630365	53.86	ug/L		89
88) Sec-Butylbenzene	9.641	105	876407	58.41	ug/L		93
89) 1,3-Dichlorobenzene	9.742	146	409739	62.20	ug/L		100
90) 4-Isopropyltoluene	9.753	119	796791	62.45	ug/L		93
91) 1,4-Dichlorobenzene	9.823	146	409989	62.03	ug/L		100
93) 1,2-Dichlorobenzene	10.101	146	381674	60.66	ug/L		100
94) n-Butylbenzene	10.058	91	663726	52.71	ug/L	#	86
95) 1,2-Dibromo-3-chloropr...	10.679	75	25128	47.59	ug/L	#	56
96) 1,2,4-Trichlorobenzene	11.224	180	239847	62.82	ug/L		99
97) Hexachlorobutadiene	11.305	225	121764	68.48	ug/L		97
98) Naphthalene	11.412	128	593484	65.22	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	209262	65.47	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62529.D
Acq On : 25 Mar 2009 19:18
Operator : SM
Sample : 903069-007MSD
Misc : OUI-16GW02-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

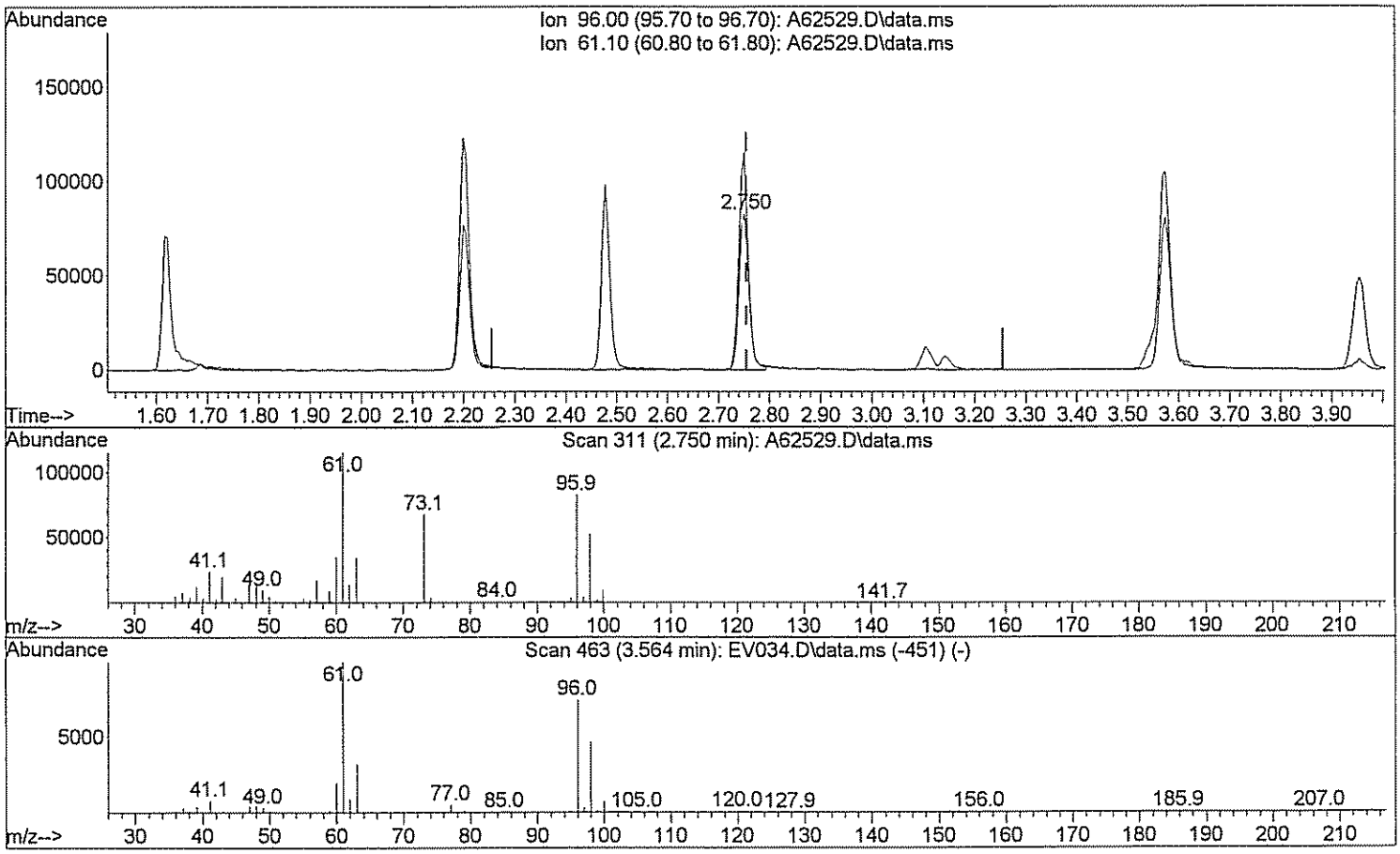
Quant Time: Mar 26 16:46:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62529.D
Acq On : 25 Mar 2009 19:18
Operator : SM
Sample : 903069-007MSD
Misc : OUI-16GW02-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 26 09:05:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62529.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 47.04 ug/L

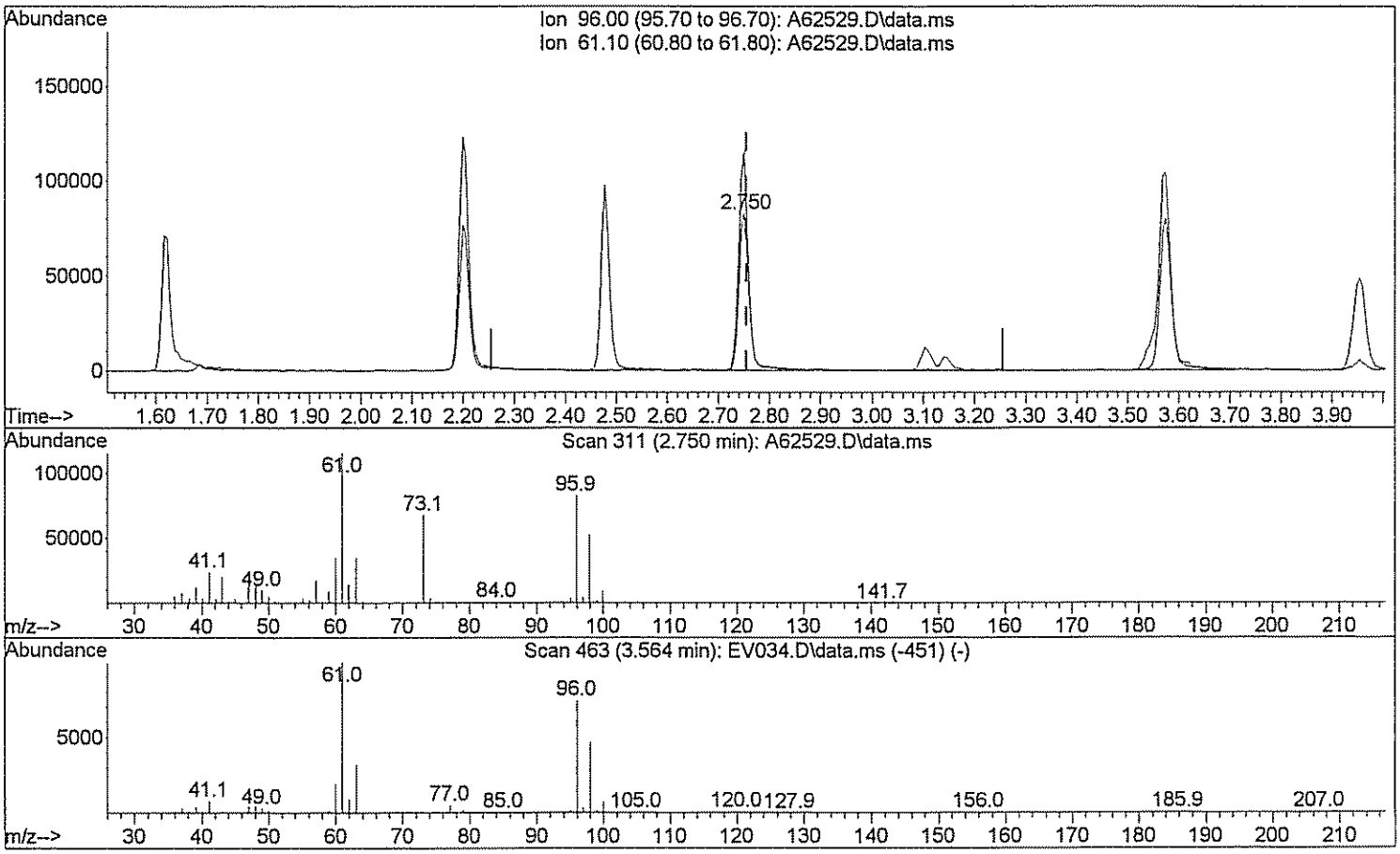
response 112348

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	136.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62529.D
Acq On : 25 Mar 2009 19:18
Operator : SM
Sample : 903069-007MSD
Misc : OUI-16GW02-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 26 09:05:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62529.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 104.11 ug/L m SW 3/26/09

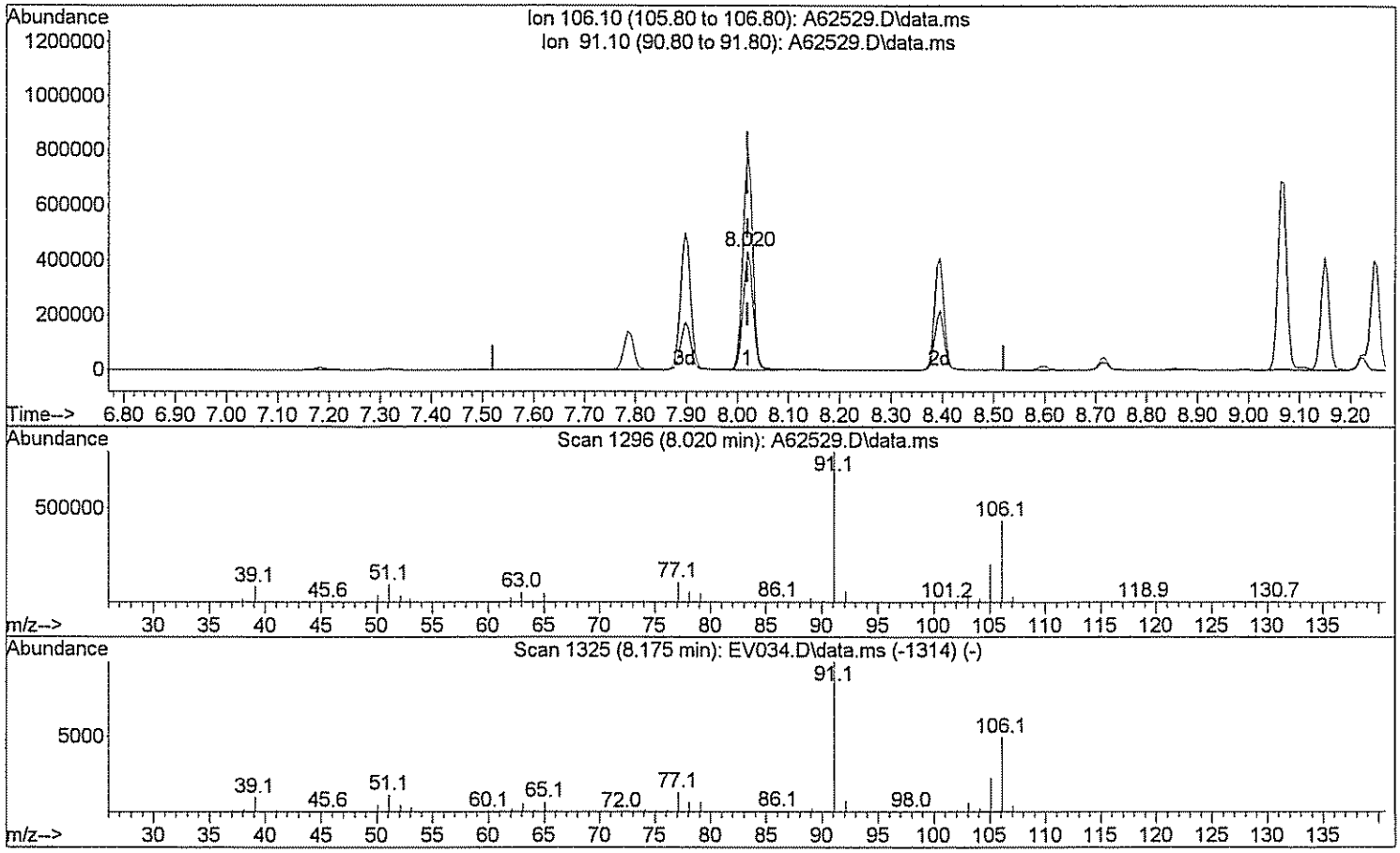
response 248637

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	61.78#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62529.D
Acq On : 25 Mar 2009 19:18
Operator : SM
Sample : 903069-007MSD
Misc : OUI-16GW02-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 26 09:05:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62529.D\data.ms

(72) Xylene (Total)

8.020min (-0.000) 107.54 ug/L

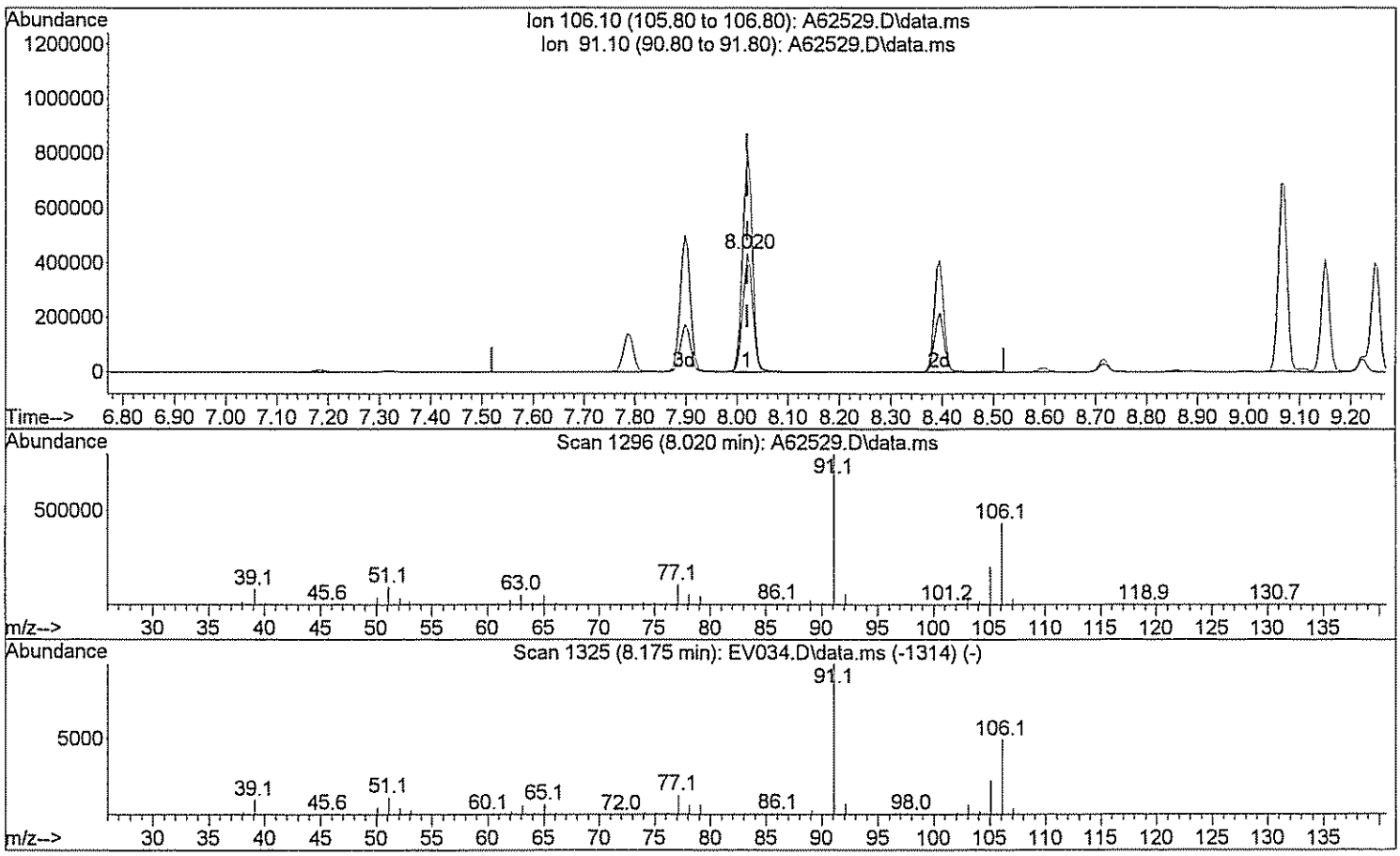
response 587915

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	186.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62529.D
Acq On : 25 Mar 2009 19:18
Operator : SM
Sample : 903069-007MSD
Misc : OUI-16GW02-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 26 09:05:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62529.D\data.ms

(72) Xylene (Total)

8.020min (-0.000) 160.13 ug/L m

response 875379

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.02#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108821
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	57	
71-55-6	1,1,1-Trichloroethane	57	
79-34-5	1,1,2,2-Tetrachloroethane	50	
79-00-5	1,1,2-Trichloroethane	61	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	50	
87-61-6	1,2,3-Trichlorobenzene	61	
96-18-4	1,2,3-Trichloropropane	50	
120-82-1	1,2,4-Trichlorobenzene	60	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	50	
95-50-1	1,2-Dichlorobenzene	59	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	50	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	60	
142-28-9	1,3-Dichloropropane	50	
106-46-7	1,4-Dichlorobenzene	60	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	96	
95-49-8	2-Chlorotoluene	56	
591-78-6	2-Hexanone	91	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	92	
67-64-1	Acetone	92	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108821
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	62	
75-27-4	Bromodichloromethane	59	
75-25-2	Bromoform	58	
74-83-9	Bromomethane	120	
75-15-0	Carbon Disulfide	46	
56-23-5	Carbon Tetrachloride	62	
108-90-7	Chlorobenzene	52	
75-00-3	Chloroethane	86	
67-66-3	Chloroform	53	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	50	
124-48-1	Dibromochloromethane	53	
74-95-3	Dibromomethane	51	
75-71-8	Dichlorodifluoromethane	57	
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	64	
87-68-3	Hexachlorobutadiene	65	
98-82-8	Isopropylbenzene	53	
79-20-9	Methyl Acetate	44	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	48	
91-20-3	Naphthalene	55	
135-98-8	Sec-Butylbenzene	55	
100-42-5	Styrene	51	
127-18-4	Tetrachloroethylene	61	
108-88-3	Toluene	63	
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	64	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108821
Sample Volume :	5	Lab File ID :	A62439.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	43	
75-01-4	Vinyl Chloride	44	
156-59-2	cis-1,2-Dichloroethene	48	
10061-01-5	cis-1,3-Dichloropropene	61	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	53	
103-65-1	n-Propylbenzene	52	
95-47-6	o-Xylene	51	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	59	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 18:36:35 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	493685	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	438839	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	521407	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	145406	55.44	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 110.88%				
54) Toluene-d8	6.142	98	620382	61.01	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 122.02%#				
76) 4-Bromofluorobenzene	8.881	95	251372	51.15	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 102.30%				
92) 1,2-Dichlorobenzene-d4	10.090	152	278781	57.83	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	49691	56.81	ug/L		95
3) Chloromethane	1.333	50	80096	46.54	ug/L		93
4) Vinyl chloride	1.392	62	89648	43.88	ug/L		99
5) Bromomethane	1.616	94	157016	124.16	ug/L		96
6) Chloroethane	1.686	64	123644	86.21	ug/L		98
7) Trichlorofluoromethane	1.836	101	190037	63.69	ug/L		99
8) Ethyl Ether	2.044	59	91291	51.99	ug/L		94
9) Freon 113	2.178	101	99884	63.93	ug/L		95
10) Acrolein	2.189	56	78015	220.94	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	202062	1008.46	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	94178	52.52	ug/L		92
13) Iodomethane	2.333	142	135343	64.90	ug/L		96
14) Acetonitrile	2.483	40	892074	676.42	ug/L	#	1
15) Methylene chloride	2.590	84	110420	47.58	ug/L		95
16) Trans-1,2-dichloroethene	2.756	96	106196	51.57	ug/L		87
17) Isopropyl ether	3.093	45	416255	51.95	ug/L		95
18) 1,1-Dichloroethane	3.109	63	211105	57.19	ug/L		99
19) Acetone	2.296	43	78065	92.56	ug/L		90
20) Methyl Acetate	4.259	43	107322	43.66	ug/L	#	100
21) MTBE	2.740	73	305569	56.82	ug/L		100
22) Carbon disulfide	2.355	76	283619	45.57	ug/L		100
24) Acrylonitrile	2.831	53	166530	266.61	ug/L		98
25) Chloroprene	3.146	53	174333	49.45	ug/L		92
26) n-Heptane	4.559	71	3387	1.88	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	166915	54.05	ug/L	#	72
28) Cis-1,2-dichloroethene	3.580	96	120506	48.22	ug/L		88

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 18:36:35 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	234899m	88.79	ug/L		
30) Propionitrile	3.735	54	153456	497.54	ug/L		98
31) Bromochloromethane	3.783	128	66321	61.51	ug/L		81
32) Tetrahydrofuran	3.783	72	25876	51.10	ug/L	#	1
33) Chloroform	3.836	83	223912	53.20	ug/L		100
34) Cyclohexane	3.933	56	185363	50.46	ug/L		90
35) 1,1,1-Trichloroethane	3.959	97	178365	56.78	ug/L		98
36) Carbon tetrachloride	4.061	117	166885	62.06	ug/L		99
37) Methacrylonitrile	3.826	41	901109	536.91	ug/L	#	19
38) Methylcyclohexane	4.992	83	181947	54.48	ug/L		92
39) Isobutyl Alcohol	4.259	43	107322	733.22	ug/L		94
42) 2-Butanone	3.612	43	136851	95.60	ug/L		94
43) 1,1-Dichloropropene	4.099	75	148445	49.90	ug/L		99
44) Vinyl Acetate	3.136	43	143001	42.73	ug/L		99
45) Benzene	4.280	78	446179	48.04	ug/L		100
46) 1,2-Dichloroethane	4.377	62	147732m	50.73	ug/L		
47) Trichloroethene	4.885	95	116208	48.72	ug/L		80
48) 1,2-Dichloropropane	5.163	63	119585	50.25	ug/L		100
49) Methyl methacrylate	5.265	69	76475	44.37	ug/L		96
50) Dibromomethane	5.281	93	74781	51.08	ug/L		97
51) Bromodichloromethane	5.431	83	183276	58.99	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	110039	116.13	ug/L		98
53) Cis-1,3-dichloropropene	5.918	75	227742	60.82	ug/L		100
55) Toluene	6.217	92	384144	63.10	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	201406	59.37	ug/L		97
57) Ethyl methacrylate	6.624	69	187828	61.66	ug/L		99
58) 1,1,2-Trichloroethane	6.773	83	112107	61.37	ug/L		94
60) 4-Methyl-2-pentanone	6.094	43	278628	91.64	ug/L		97
61) 2-Hexanone	7.068	43	199903	91.08	ug/L		98
62) Tetrachloroethene	6.795	166	183464	61.04	ug/L		98
63) 1,3-Dichloropropane	6.971	76	218238	50.31	ug/L		86
64) Dibromochloromethane	7.185	129	166919	53.15	ug/L		98
65) 1,2-Dibromoethane	7.314	107	132466	49.43	ug/L		99
66) 1-Chlorohexane	7.785	91	208889	46.33	ug/L		95
67) Chlorobenzene	7.811	112	462312	52.30	ug/L		90
68) 1,1,1,2-Tetrachloroethane	7.908	131	179980	56.84	ug/L		100
69) Ethylbenzene	7.897	91	757045	50.02	ug/L		98
70) m,p-Xylene	8.020	106	636236	107.03	ug/L		86
71) o-Xylene	8.394	106	305759	50.76	ug/L		92
72) Xylene (Total)	8.020	106	944494m	154.66	ug/L		
73) Styrene	8.421	104	513192	51.27	ug/L		93
74) Bromoform	8.598	173	113936	58.50	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 18:36:35 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

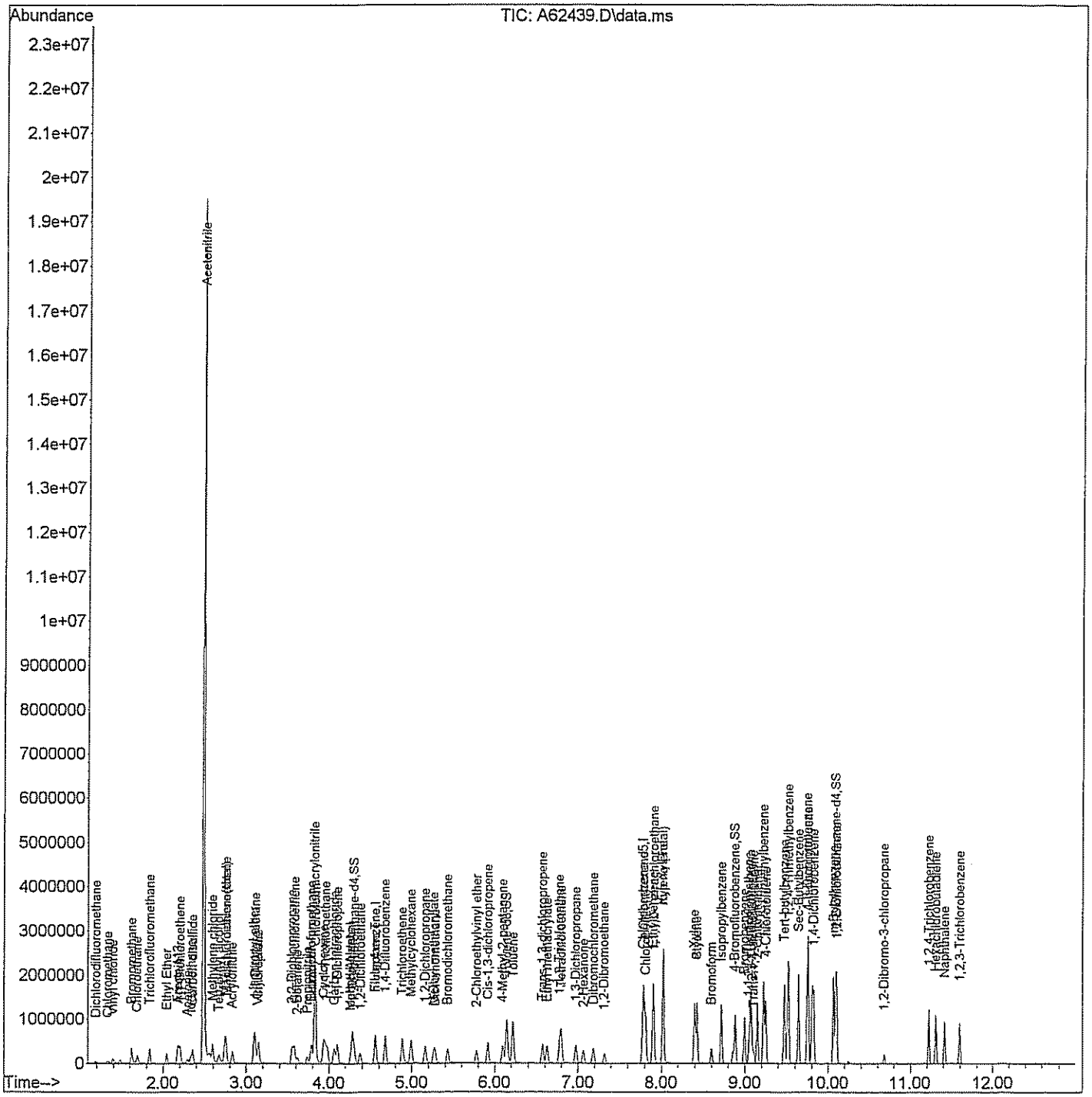
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	683654	53.37	ug/L		98
77) Bromobenzene	8.994	156	209126	59.63	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	172037	49.95	ug/L		97
79) 1,2,3-Trichloropropane	9.085	110	51307	50.15	ug/L		95
80) n-Propylbenzene	9.068	91	919840	51.88	ug/L		95
81) Trans-1,4-dichloro-2-b...	9.106	53	35487	41.49	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	209072	55.61	ug/L		87
83) 4-Chlorotoluene	9.250	126	217715	55.79	ug/L		81
84) 1,3,5-Trimethylbenzene	9.224	105	679359	53.98	ug/L		93
85) Tert-butylbenzene	9.470	119	608935	55.69	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	702045	53.70	ug/L		91
88) Sec-Butylbenzene	9.641	105	929877	55.48	ug/L		95
89) 1,3-Dichlorobenzene	9.748	146	438520	59.59	ug/L		100
90) 4-Isopropyltoluene	9.759	119	840936	59.01	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	445812	60.38	ug/L		100
93) 1,2-Dichlorobenzene	10.101	146	412871	58.74	ug/L		97
94) n-Butylbenzene	10.064	91	741237	52.70	ug/L	#	90
95) 1,2-Dibromo-3-chloropr...	10.679	75	29226	49.55	ug/L	#	72
96) 1,2,4-Trichlorobenzene	11.224	180	258015	60.50	ug/L		99
97) Hexachlorobutadiene	11.305	225	128367	64.63	ug/L		98
98) Naphthalene	11.412	128	558889	54.99	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	218824	61.28	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

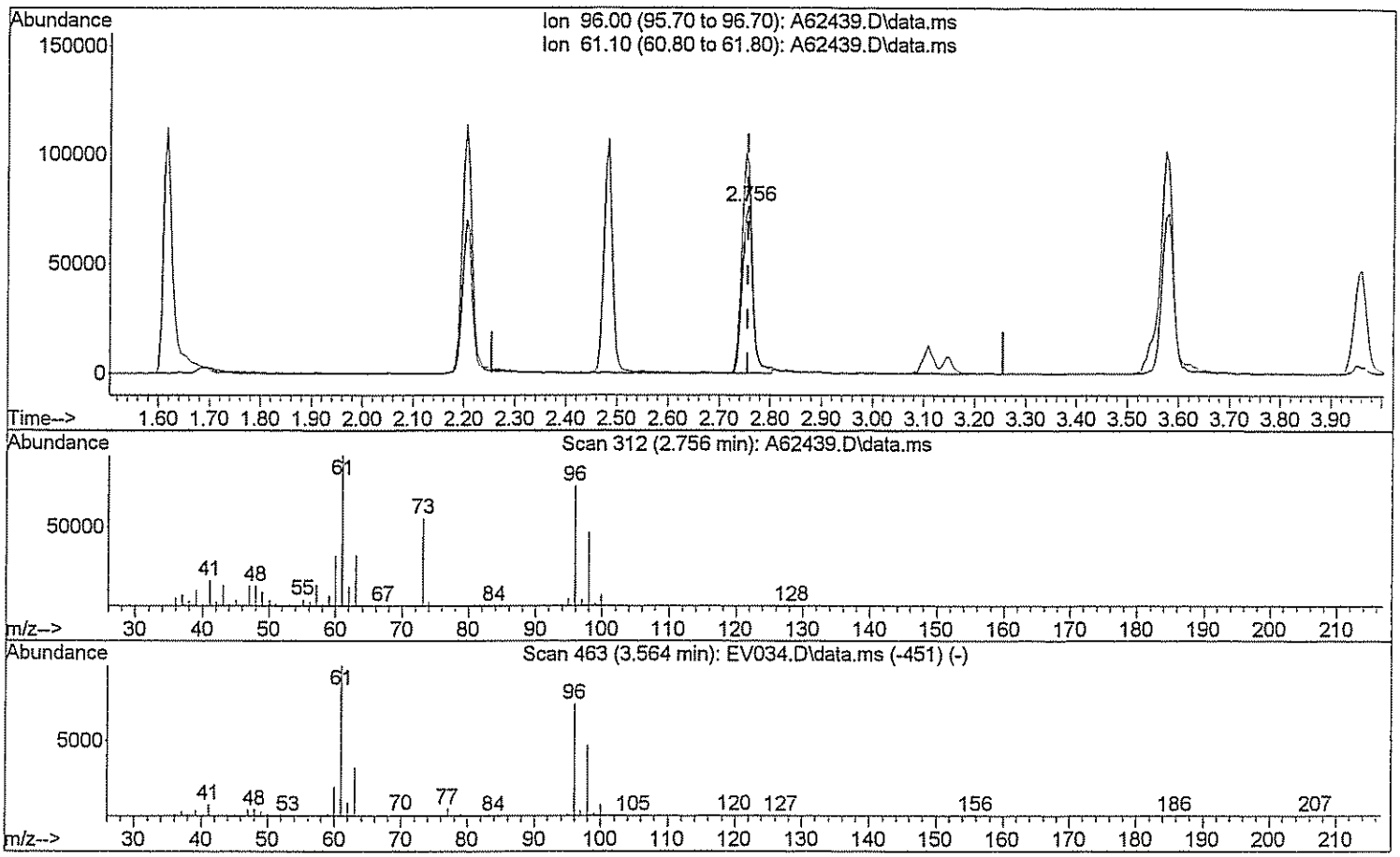
Quant Time: Mar 24 18:36:35 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 40.14 ug/L

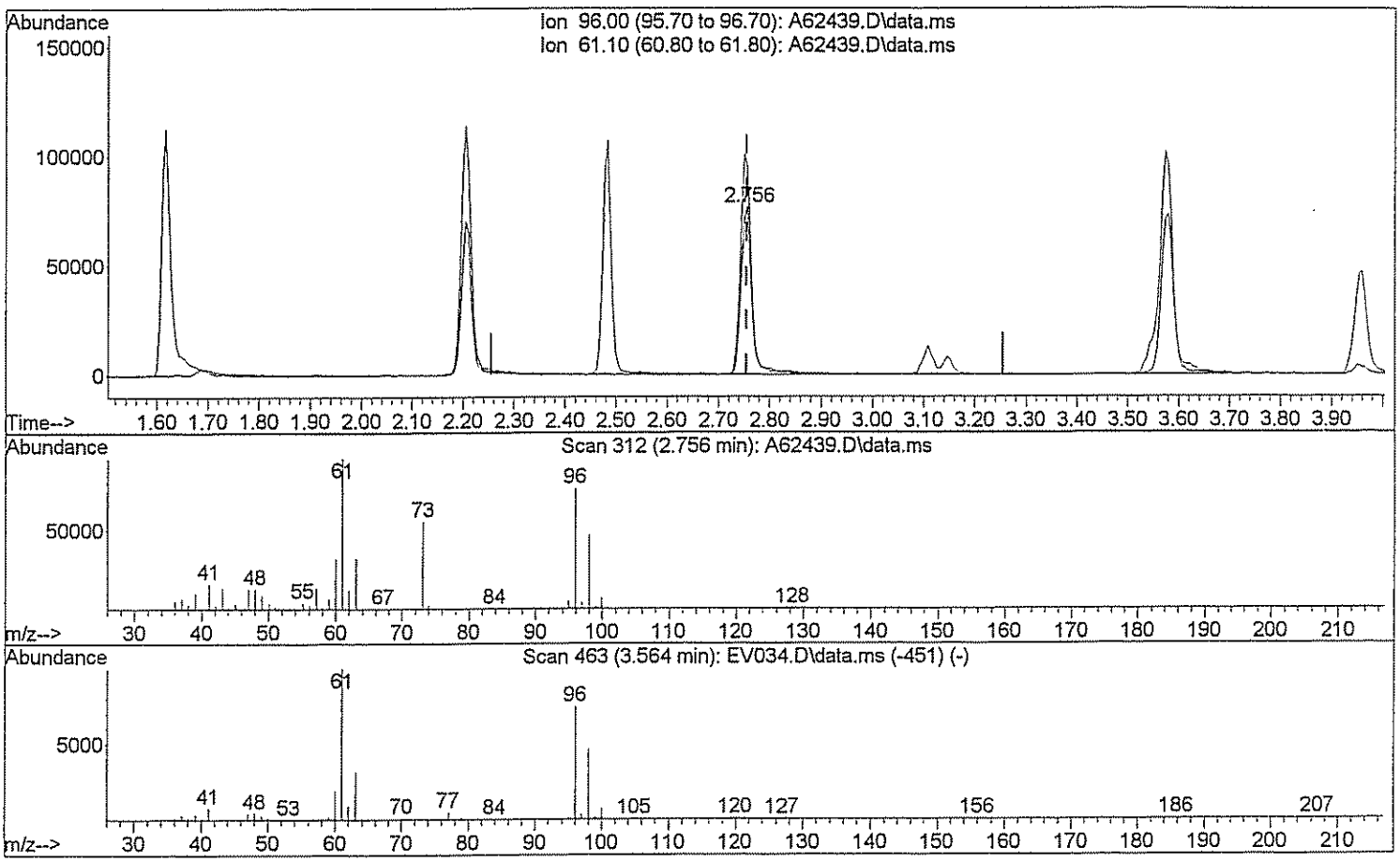
response 106196

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	138.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 88.79 ug/L m Sm 3/24/09

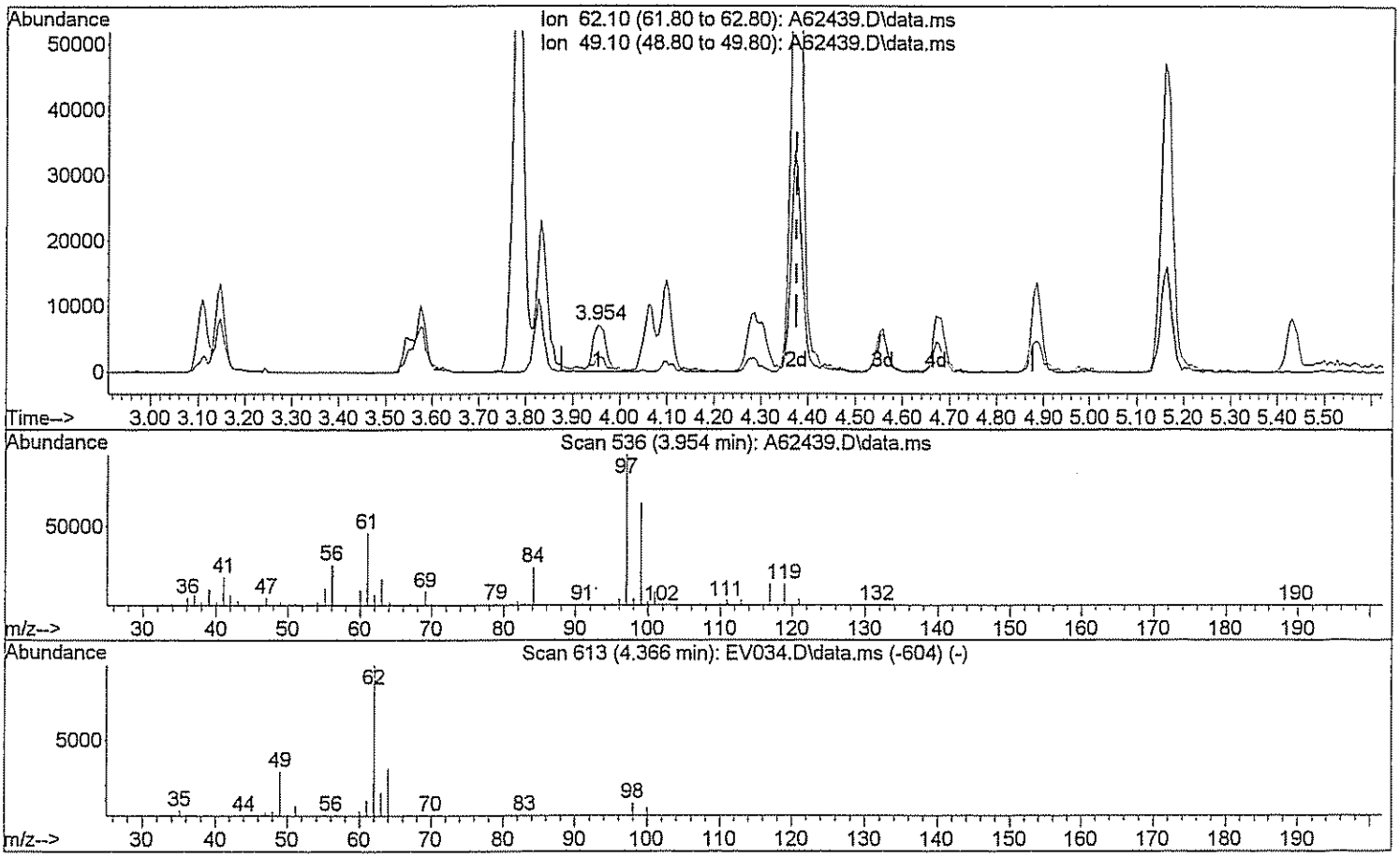
response 234899

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	62.53#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(46) 1,2-Dichloroethane

3.954min (-0.423) 4.91 ug/L

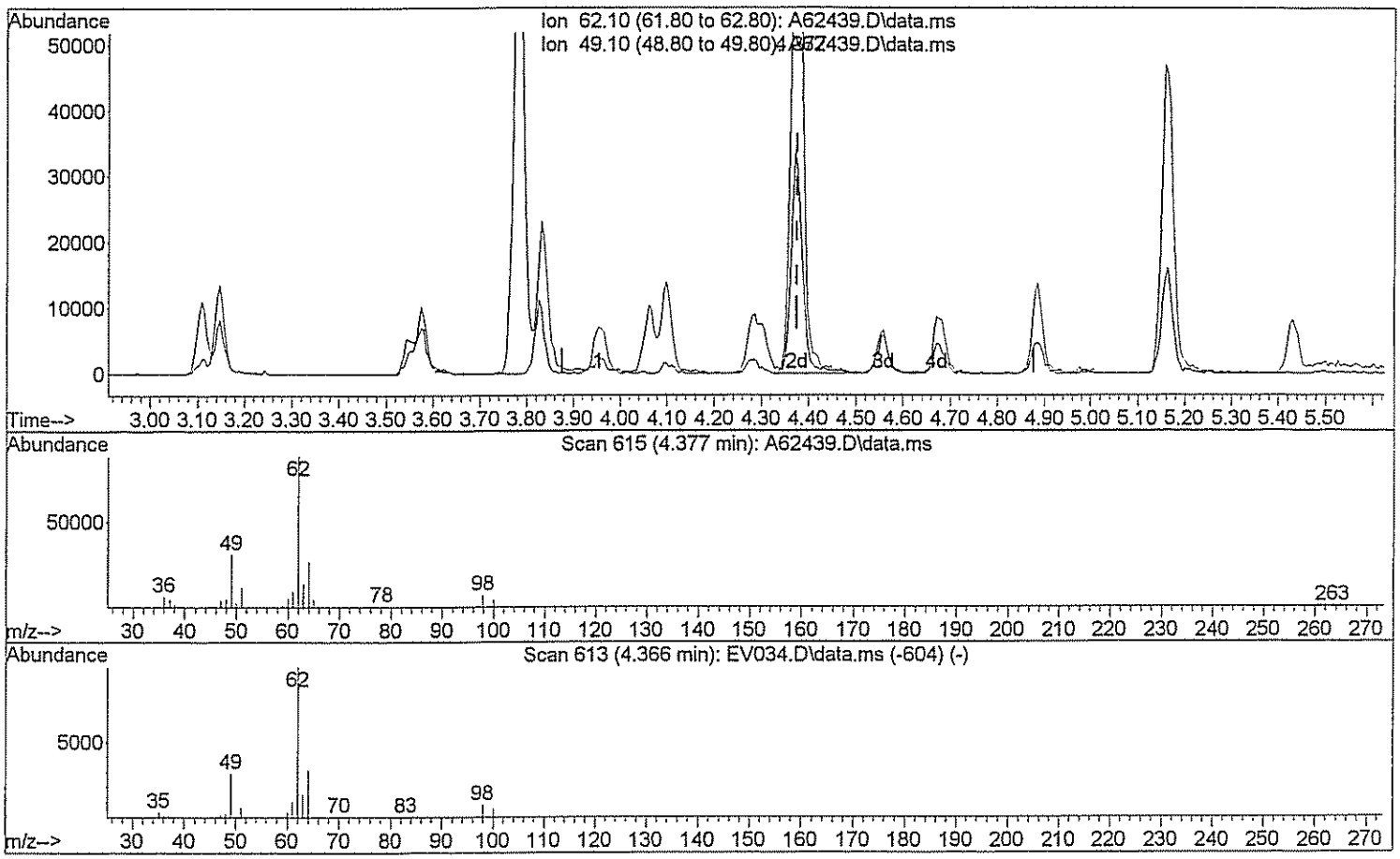
response 14286

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	30.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(46) 1,2-Dichloroethane

4.377min (+0.000) 50.73 ug/L m SM 3/24/09

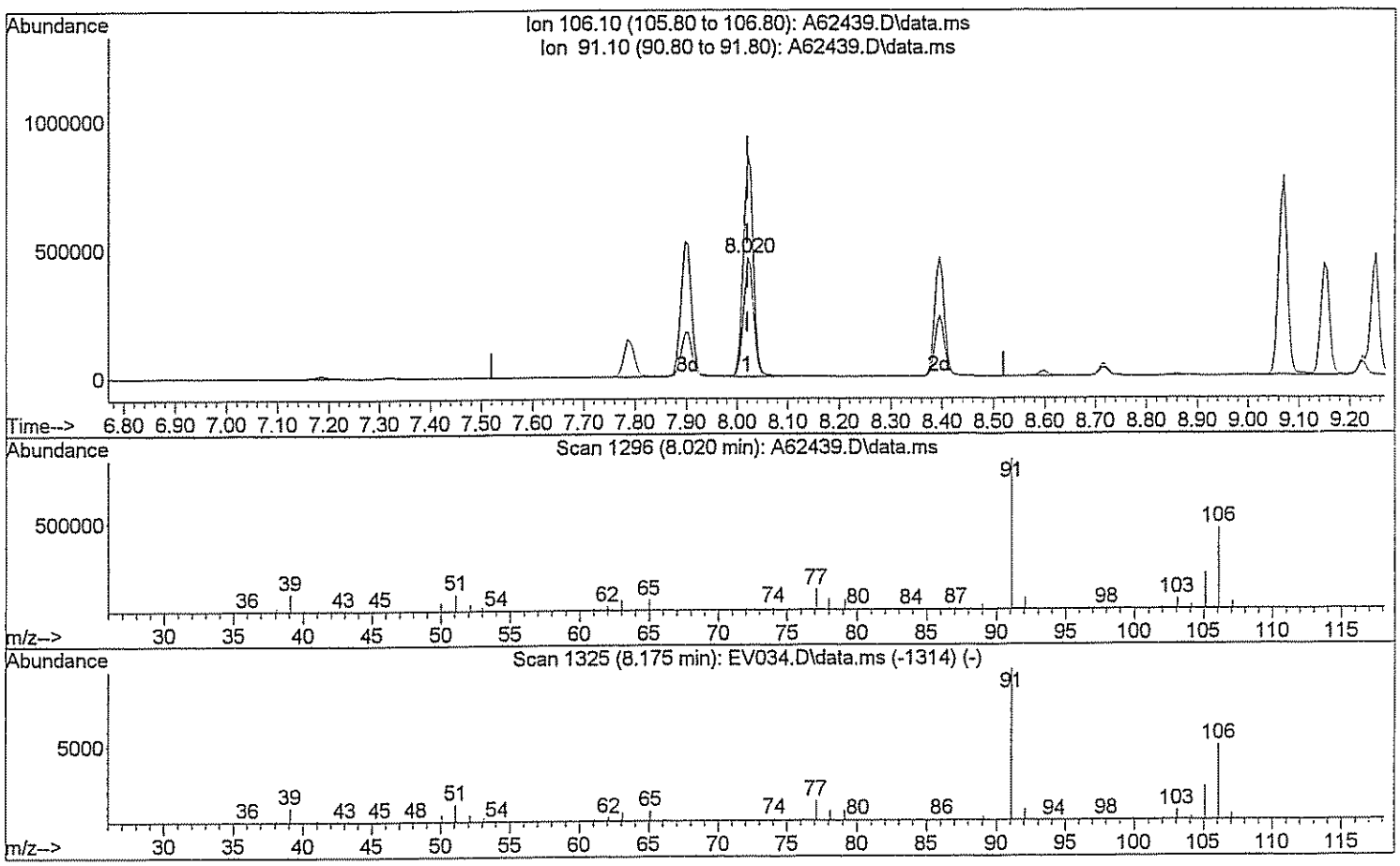
response 147732

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.92#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 104.19 ug/L

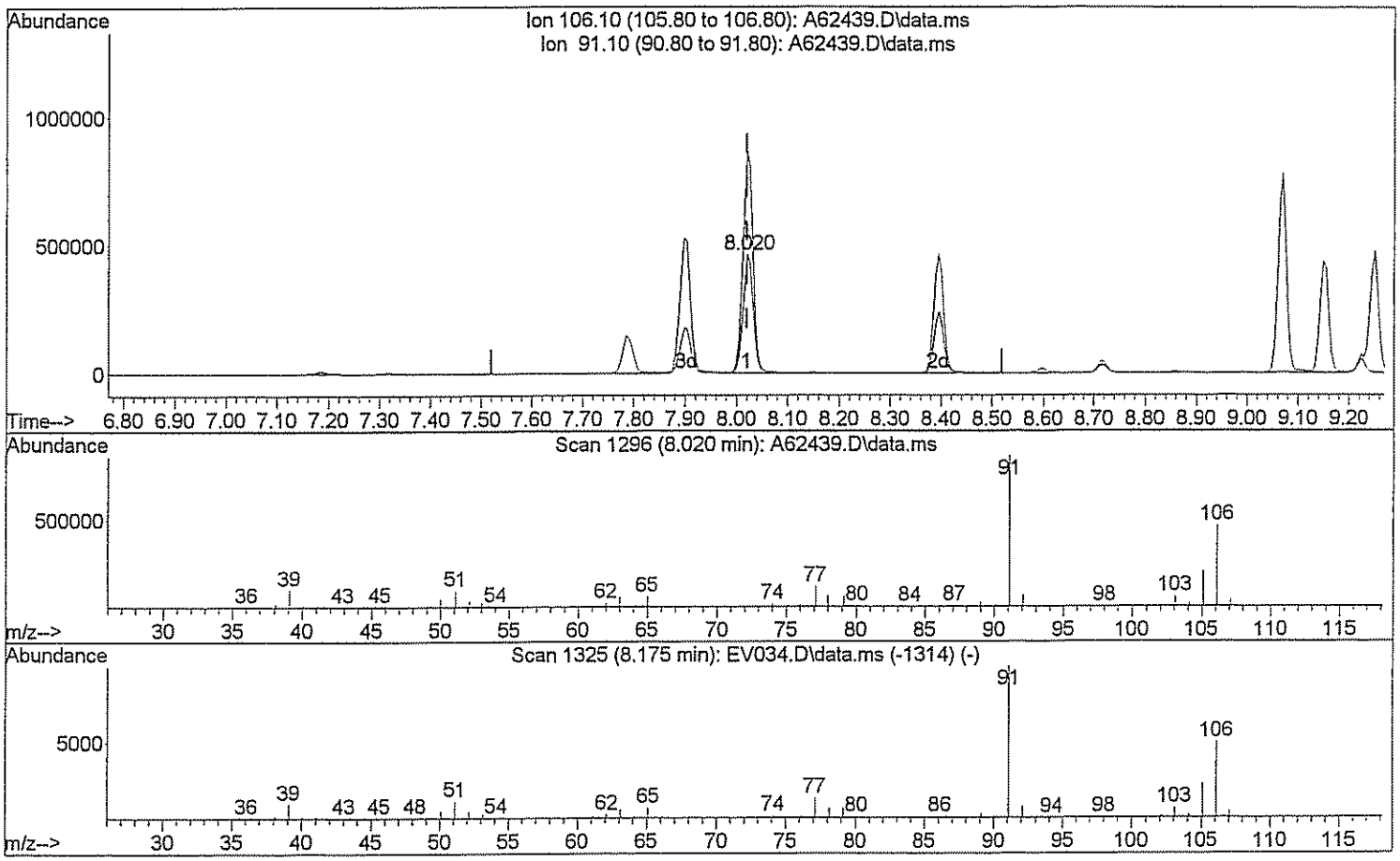
response 636236

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	187.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62439.D
Acq On : 23 Mar 2009 14:18
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 09:23:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62439.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 154.66 ug/L m

Sm 3/24/09

response 944494

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.19#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108811
Sample Volume :	5	Lab File ID :	A62440.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	52	
71-55-6	1,1,1-Trichloroethane	58	
79-34-5	1,1,2,2-Tetrachloroethane	47	
79-00-5	1,1,2-Trichloroethane	60	
75-34-3	1,1-Dichloroethane	58	
75-35-4	1,1-Dichloroethene	54	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	55	
96-18-4	1,2,3-Trichloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	53	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	50	
108-67-8	1,3,5-trimethylbenzene	52	
541-73-1	1,3-Dichlorobenzene	56	
142-28-9	1,3-Dichloropropane	50	
106-46-7	1,4-Dichlorobenzene	58	
594-20-7	2,2-Dichloropropane	56	
78-93-3	2-Butanone	16	
95-49-8	2-Chlorotoluene	60	
591-78-6	2-Hexanone	77	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	69	
67-64-1	Acetone	120	
71-43-2	Benzene	47	
108-86-1	Bromobenzene	58	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108811
Sample Volume :	5	Lab File ID :	A62440.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	60	
75-27-4	Bromodichloromethane	49	
75-25-2	Bromoform	48	
74-83-9	Bromomethane	60	
75-15-0	Carbon Disulfide	51	
56-23-5	Carbon Tetrachloride	58	
108-90-7	Chlorobenzene	53	
75-00-3	Chloroethane	47	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	67	
110-82-7	Cyclohexane	52	
124-48-1	Dibromochloromethane	54	
74-95-3	Dibromomethane	52	
75-71-8	Dichlorodifluoromethane	55	
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	60	
87-68-3	Hexachlorobutadiene	51	
98-82-8	Isopropylbenzene	53	
79-20-9	Methyl Acetate	59	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	51	
91-20-3	Naphthalene	50	
135-98-8	Sec-Butylbenzene	53	
100-42-5	Styrene	52	
127-18-4	Tetrachloroethylene	59	
108-88-3	Toluene	54	
79-01-6	Trichloroethene	46	
75-69-4	Trichlorofluoromethane	64	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108811
Sample Volume :	5	Lab File ID :	A62440.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	43	
75-01-4	Vinyl Chloride	48	
156-59-2	cis-1,2-Dichloroethene	53	
10061-01-5	cis-1,3-Dichloropropene	43	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	52	
103-65-1	n-Propylbenzene	52	
95-47-6	o-Xylene	52	
98-06-6	tert-Butylbenzene	54	
1634-04-4	tert-butyl methyl ether	56	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	58	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62440.D
Acq On : 23 Mar 2009 14:39
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 23 15:50:06 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.570	96	373519	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	324038	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.779	117	390132	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	110309	53.46	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.92%				
53) Toluene-d8	6.148	98	351945	48.93	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 97.86%				
75) 4-Bromofluorobenzene	8.881	95	200675	51.83	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 103.66%				
91) 1,2-Dichlorobenzene-d4	10.085	152	241834	57.26	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.52%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	46393	54.89	ug/L		97
3) Chloromethane	1.354	50	71177	67.24	ug/L		94
4) Vinyl chloride	1.419	62	76028	47.53	ug/L		94
5) Bromomethane	1.654	94	28801	60.06	ug/L		91
6) Chloroethane	1.724	64	50192	47.35	ug/L		93
7) Trichlorofluoromethane	1.868	101	114108	63.79	ug/L		96
8) Ethyl Ether	2.071	59	66949	48.27	ug/L		93
9) Freon 113	2.205	101	76364	60.26	ug/L		95
10) Acrolein	2.210	56	60983	264.59	ug/L	#	74
11) Tert-Butyl alcohol	2.686	59	80342	1148.25	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	73736	53.67	ug/L		89
13) Iodomethane	2.355	142	124466	101.40	ug/L		98
14) Acetonitrile	2.505	40	606055	683.26	ug/L	#	1
15) Methylene chloride	2.612	84	84690	50.71	ug/L		97
16) Trans-1,2-dichloroethene	2.777	96	78065	52.26	ug/L		89
17) Isopropyl ether	3.109	45	313877	52.23	ug/L		98
18) 1,1-Dichloroethane	3.125	63	155611	58.50	ug/L		97
19) Acetone	2.317	43	46383	116.27	ug/L	#	87
20) Methyl Acetate	4.265	43	47205	58.71	ug/L	#	100
21) MTBE	2.756	73	241246	55.80	ug/L		100
22) Carbon disulfide	2.382	76	212305	50.82	ug/L		100
24) Acrylonitrile	2.852	53	122949	292.87	ug/L		98
25) Chloroprene	3.168	53	127013	49.92	ug/L		94
26) n-Heptane	4.570	71	2672	2.06	ug/L	#	1
27) 2,2-Dichloropropane	3.569	77	122375	56.33	ug/L	#	75
28) Cis-1,2-dichloroethene	3.591	96	94179	53.01	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62440.D
Acq On : 23 Mar 2009 14:39
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 23 15:50:06 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.591	96	175128m	107.96	ug/L		
30) Propionitrile	3.746	54	96852	409.67	ug/L		96
31) Bromochloromethane	3.799	128	51357	59.53	ug/L		80
32) Tetrahydrofuran	3.623	72	19991	45.03	ug/L	#	1
33) Chloroform	3.847	83	162928	54.07	ug/L		99
34) Cyclohexane	3.949	56	140255	52.48	ug/L		91
35) 1,1,1-Trichloroethane	3.970	97	133073	57.95	ug/L		97
36) Carbon tetrachloride	4.077	117	122229	57.72	ug/L		98
37) Methylcyclohexane	5.003	83	137199	53.75	ug/L		89
38) Isobutyl Alcohol	4.265	43	47205	397.45	ug/L		90
41) 2-Butanone	3.949	43	16633	16.43	ug/L		92
42) 1,1-Dichloropropene	4.109	75	108508	51.39	ug/L		98
43) Vinyl Acetate	3.152	43	99760	43.14	ug/L		98
44) Benzene	4.297	78	327783	46.93	ug/L		100
45) 1,2-Dichloroethane	4.388	62	111753	50.65	ug/L	#	84
46) Trichloroethene	4.891	95	82458	46.04	ug/L	#	74
47) 1,2-Dichloropropane	5.169	63	90567	49.86	ug/L		95
48) Methyl methacrylate	5.270	69	56868	47.48	ug/L		95
49) Dibromomethane	5.286	93	57176	51.82	ug/L		96
50) Bromodichloromethane	5.436	83	113713	48.67	ug/L	#	98
51) 2-Chloroethylvinyl ether	5.784	63	211236	173.37	ug/L		99
52) Cis-1,3-dichloropropene	5.918	75	131771	43.46	ug/L		98
54) Toluene	6.223	92	206486	54.13	ug/L		95
55) Trans-1,3-dichloropropene	6.576	75	139988	57.99	ug/L		98
56) Ethyl methacrylate	6.629	69	132090	58.45	ug/L		100
57) 1,1,2-Trichloroethane	6.774	83	80947	60.03	ug/L		95
59) 4-Methyl-2-pentanone	6.105	43	188336	69.04	ug/L		92
60) 2-Hexanone	7.068	43	144762	77.41	ug/L		97
61) Tetrachloroethene	6.800	166	121998	59.18	ug/L		100
62) 1,3-Dichloropropane	6.977	76	159210	50.36	ug/L		87
63) Dibromochloromethane	7.186	129	116725	53.78	ug/L		100
64) 1,2-Dibromoethane	7.319	107	95994	48.92	ug/L		100
65) 1-Chlorohexane	7.790	91	152907	47.20	ug/L		94
66) Chlorobenzene	7.811	112	337549	52.68	ug/L		90
67) 1,1,1,2-Tetrachloroethane	7.908	131	138911	52.14	ug/L		98
68) Ethylbenzene	7.897	91	551830	50.43	ug/L		98
69) m,p-Xylene	8.025	106	457385	101.20	ug/L		87
70) o-Xylene	8.395	106	230361	51.71	ug/L		93
71) Xylene (Total)	8.025	106	690429m	154.51	ug/L		
72) Styrene	8.421	104	391451	52.29	ug/L		96
73) Bromoform	8.598	173	83664	48.01	ug/L		97
74) Isopropylbenzene	8.716	105	525478	53.10	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62440.D
Acq On : 23 Mar 2009 14:39
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 23 15:50:06 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

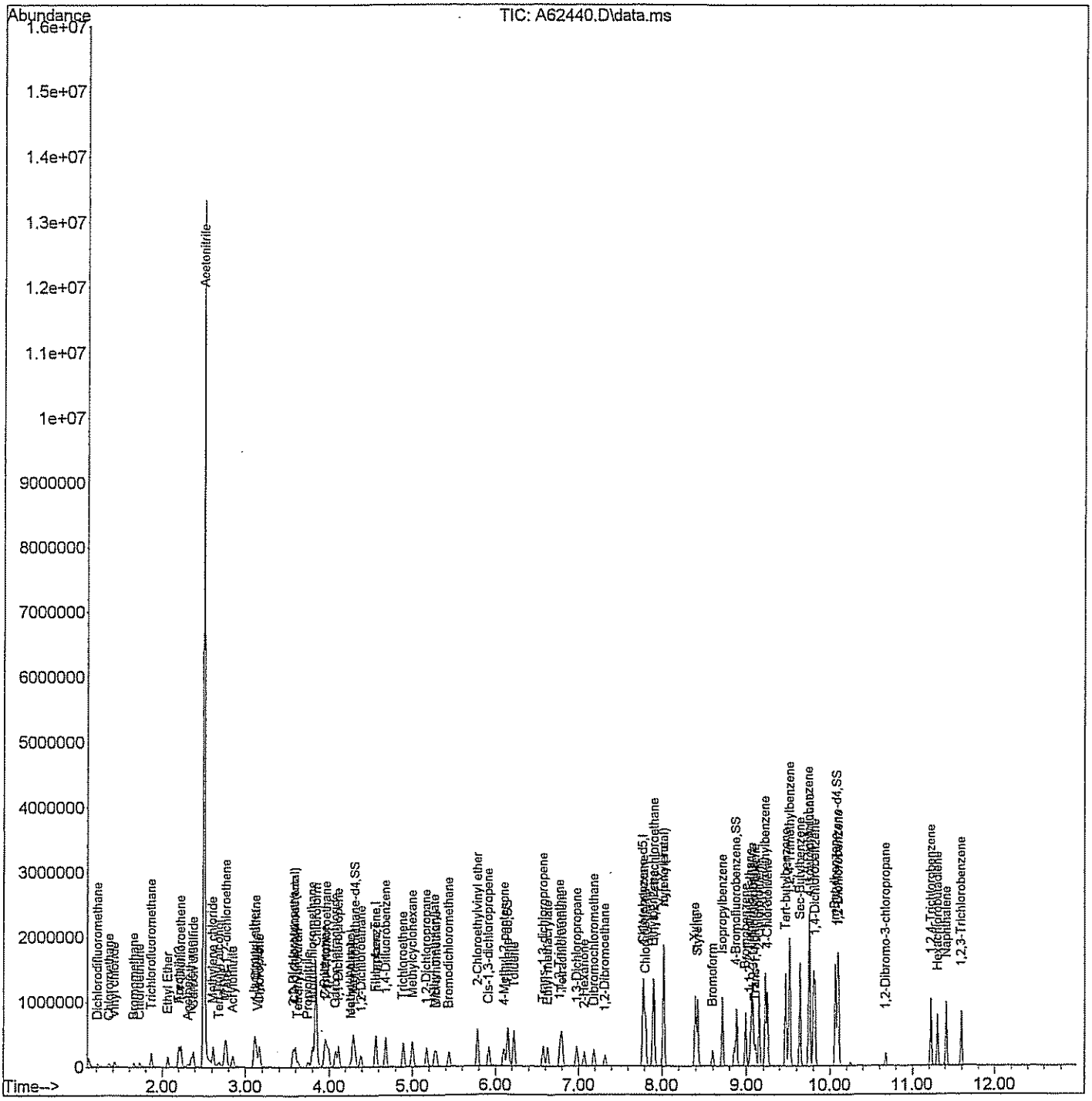
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	164574	58.20 ug/L	99
77) 1,1,2,2-Tetrachloroethane	9.047	83	141544	46.82 ug/L	97
78) 1,2,3-Trichloropropane	9.085	110	42851	47.50 ug/L	96
79) n-Propylbenzene	9.069	91	698613	52.12 ug/L	94
80) Trans-1,4-dichloro-2-b...	9.106	53	43966	51.18 ug/L #	25
81) 2-Chlorotoluene	9.149	126	171383	59.62 ug/L	85
82) 4-Chlorotoluene	9.251	126	171666	56.16 ug/L	81
83) 1,3,5-Trimethylbenzene	9.224	105	544316	52.42 ug/L	94
84) Tert-butylbenzene	9.470	119	504110	54.36 ug/L	94
86) 1,2,4-Trimethylbenzene	9.518	105	581303	52.63 ug/L	91
87) Sec-Butylbenzene	9.641	105	761332	53.02 ug/L	95
88) 1,3-Dichlorobenzene	9.748	146	353783	56.32 ug/L	98
89) 4-Isopropyltoluene	9.759	119	704569	57.18 ug/L	94
90) 1,4-Dichlorobenzene	9.823	146	363176	57.91 ug/L	99
92) 1,2-Dichlorobenzene	10.101	146	348395	57.73 ug/L	99
93) n-Butylbenzene	10.058	91	607214	52.02 ug/L	91
94) 1,2-Dibromo-3-chloropr...	10.679	75	26786	44.87 ug/L #	69
95) 1,2,4-Trichlorobenzene	11.225	180	229982	55.72 ug/L	99
96) Hexachlorobutadiene	11.305	225	93530	50.97 ug/L	95
97) Naphthalene	11.412	128	566498	50.18 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	203681	55.20 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62440.D
Acq On : 23 Mar 2009 14:39
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

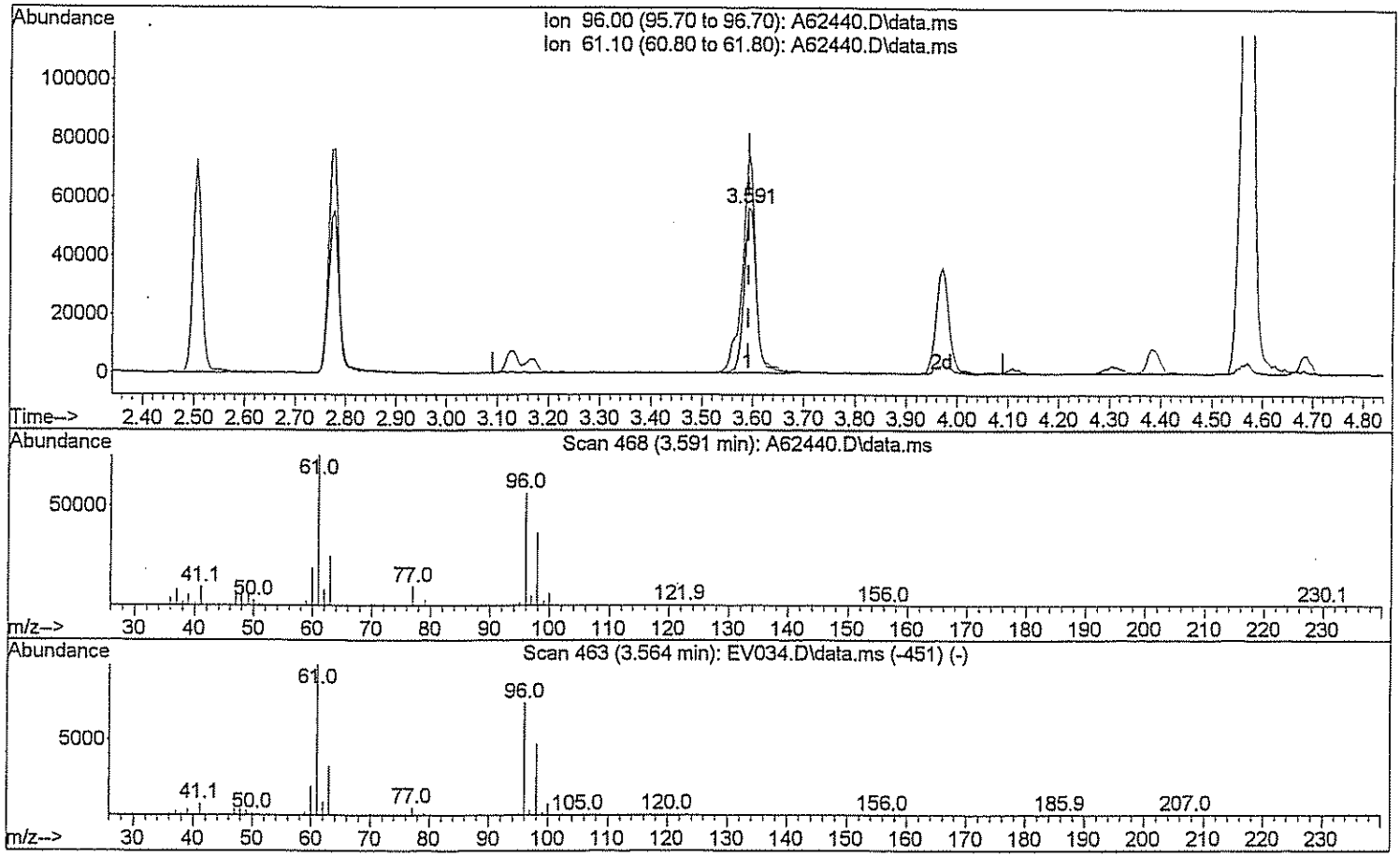
Quant Time: Mar 23 15:50:06 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62440.D
Acq On : 23 Mar 2009 14:39
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 23 14:51:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62440.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (-0.000) 58.06 ug/L

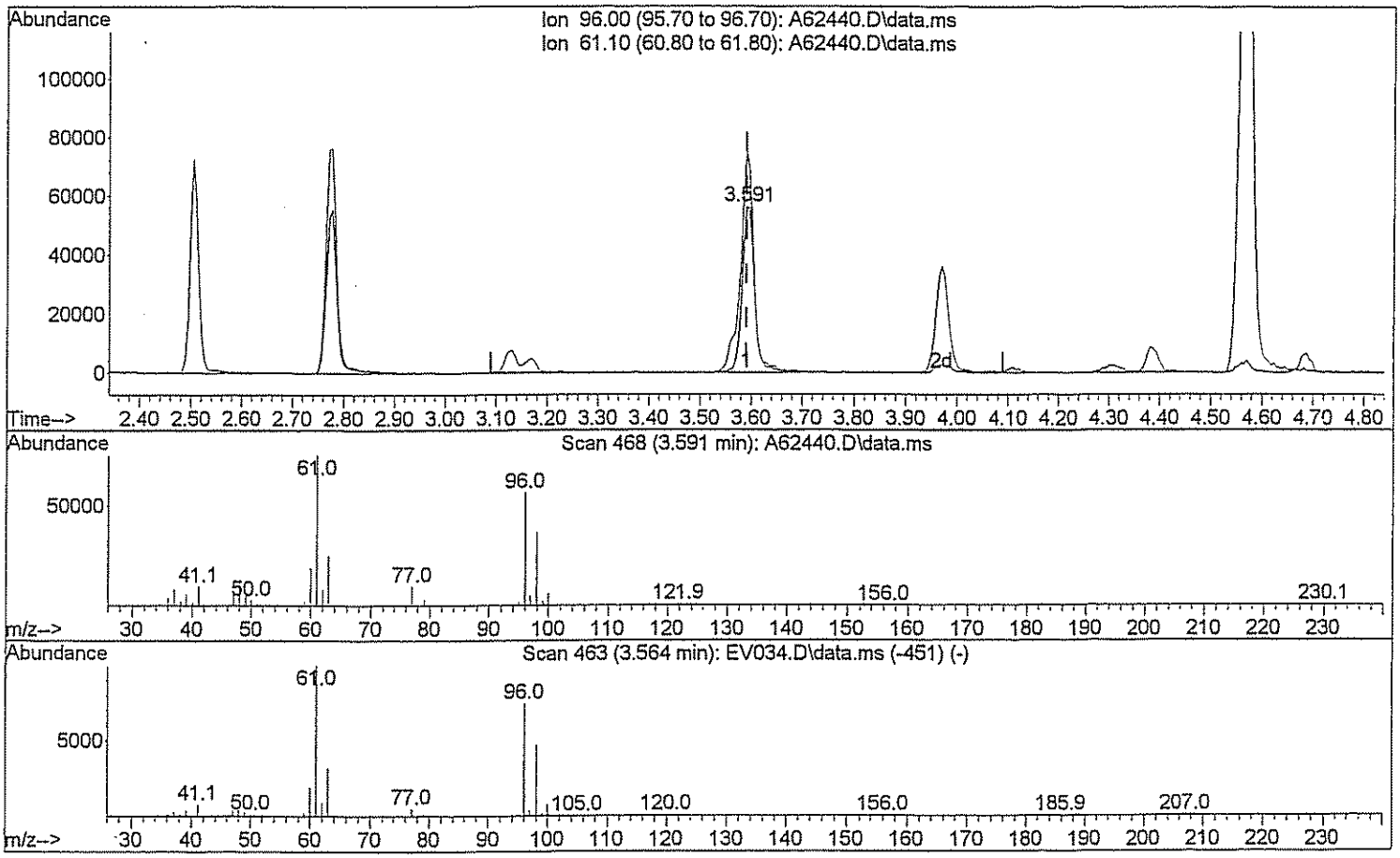
response 94179

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	144.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62440.D
Acq On : 23 Mar 2009 14:39
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 23 14:51:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62440.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (-0.000) 107.96 ug/L m JM 3/23/09

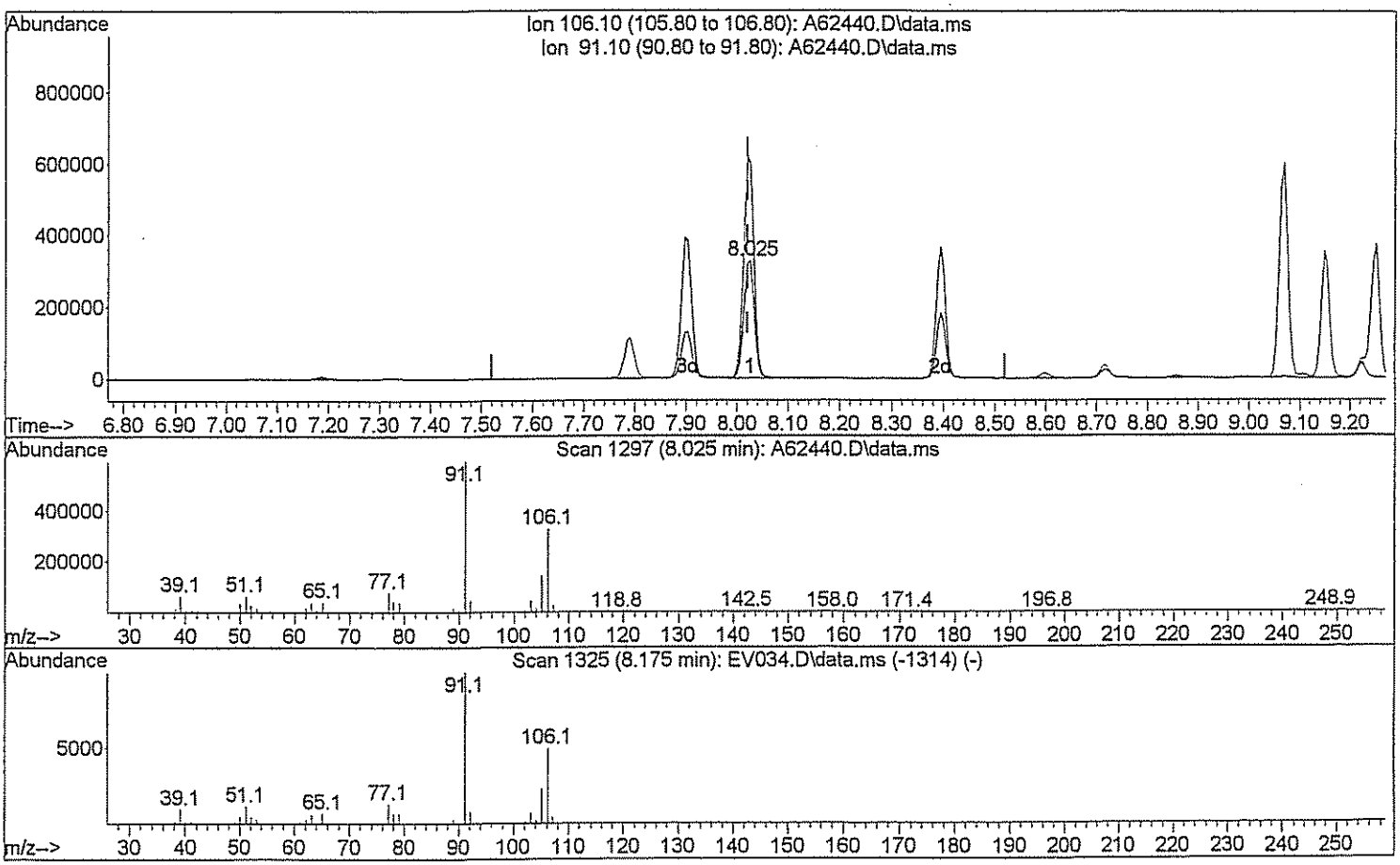
response 175128

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	77.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62440.D
Acq On : 23 Mar 2009 14:39
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 23 14:51:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62440.D\data.ms

(71) Xylene (Total)

8.025min (+0.005) 102.36 ug/L

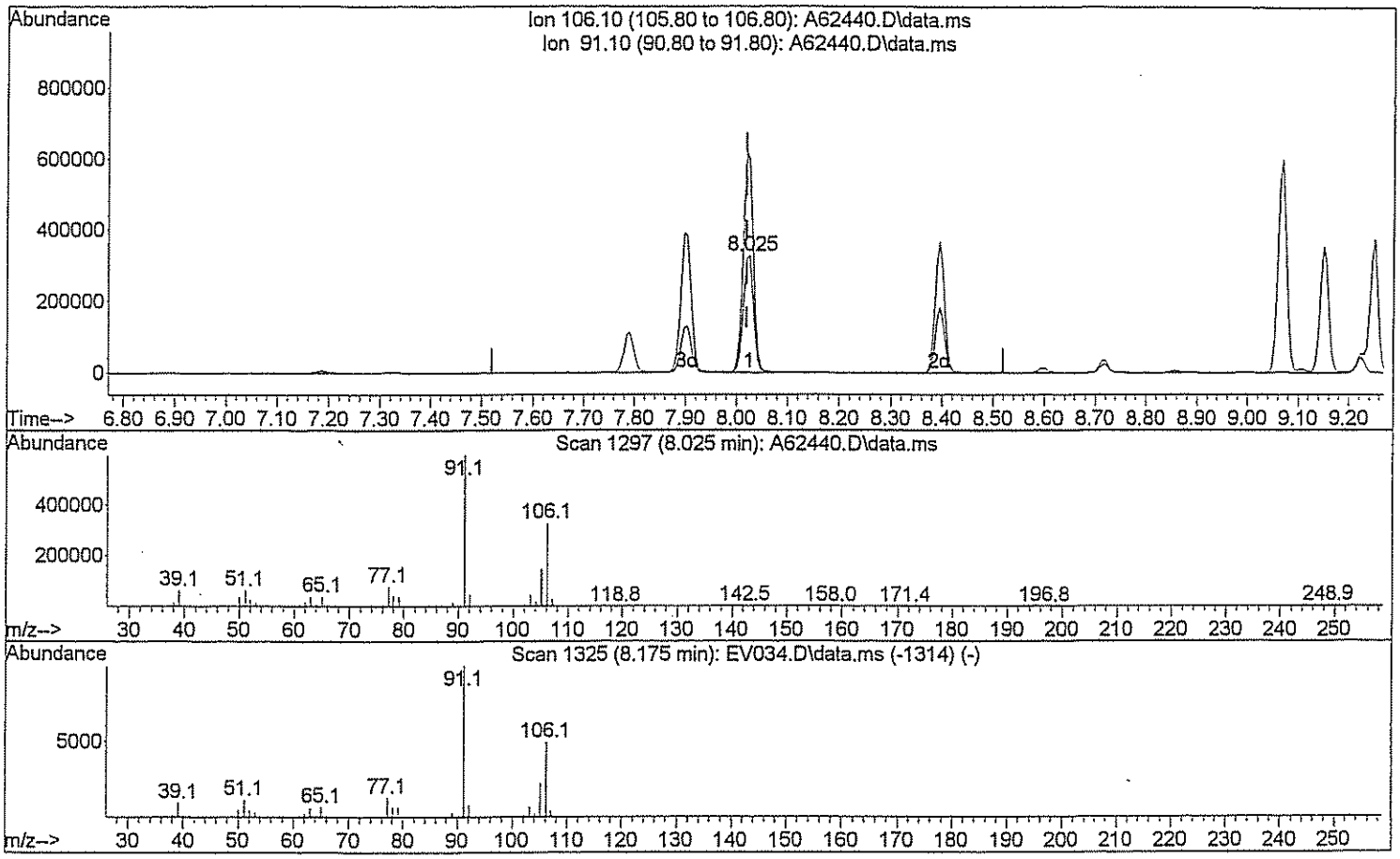
response 457385

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62440.D
Acq On : 23 Mar 2009 14:39
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 23 14:51:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62440.D\data.ms

(71) Xylene (Total)

8.025min (+0.005) 154.51 ug/L m 3/23/09

response 690429

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.05#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108826
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	59	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	50	
79-00-5	1,1,2-Trichloroethane	63	
75-34-3	1,1-Dichloroethane	58	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	52	
87-61-6	1,2,3-Trichlorobenzene	60	
96-18-4	1,2,3-Trichloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	59	
95-63-6	1,2,4-Trimethylbenzene	56	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
95-50-1	1,2-Dichlorobenzene	60	
107-06-2	1,2-Dichloroethane	53	
78-87-5	1,2-Dichloropropane	52	
108-67-8	1,3,5-trimethylbenzene	55	
541-73-1	1,3-Dichlorobenzene	62	
142-28-9	1,3-Dichloropropane	51	
106-46-7	1,4-Dichlorobenzene	62	
594-20-7	2,2-Dichloropropane	56	
78-93-3	2-Butanone	90	
95-49-8	2-Chlorotoluene	58	
591-78-6	2-Hexanone	87	
106-43-4	4-Chlorotoluene	59	
99-87-6	4-Isopropyltoluene	63	
108-10-1	4-Methyl-2-Pentanone	90	
67-64-1	Acetone	87	
71-43-2	Benzene	50	
108-86-1	Bromobenzene	62	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108826
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	67	
75-27-4	Bromodichloromethane	62	
75-25-2	Bromoform	57	
74-83-9	Bromomethane	120	
75-15-0	Carbon Disulfide	45	
56-23-5	Carbon Tetrachloride	63	
108-90-7	Chlorobenzene	55	
75-00-3	Chloroethane	69	
67-66-3	Chloroform	58	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	45	
124-48-1	Dibromochloromethane	55	
74-95-3	Dibromomethane	52	
75-71-8	Dichlorodifluoromethane	41	
100-41-4	Ethylbenzene	52	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	56	
87-68-3	Hexachlorobutadiene	63	
98-82-8	Isopropylbenzene	55	
79-20-9	Methyl Acetate	42	
108-87-2	Methylcyclohexane	48	
75-09-2	Methylene Chloride	50	
91-20-3	Naphthalene	54	
135-98-8	Sec-Butylbenzene	57	
100-42-5	Styrene	53	
127-18-4	Tetrachloroethylene	61	
108-88-3	Toluene	64	
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108826

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108826
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	39	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	51	
10061-01-5	cis-1,3-Dichloropropene	62	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	55	
103-65-1	n-Propylbenzene	53	
95-47-6	o-Xylene	53	
98-06-6	tert-Butylbenzene	59	
1634-04-4	tert-butyl methyl ether	59	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	60	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 13:20:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	477603	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	424198	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	498687	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	136188	53.67	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 107.34%				
54) Toluene-d8	6.142	98	575203	58.52	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 117.04%				
76) 4-Bromofluorobenzene	8.881	95	233300	49.63	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.26%				
92) 1,2-Dichlorobenzene-d4	10.090	152	263141	57.08	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.16%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.194	85	34644	40.94	ug/L		99
3) Chloromethane	1.327	50	71962	43.22	ug/L		100
4) Vinyl chloride	1.392	62	85503	43.26	ug/L		94
5) Bromomethane	1.616	94	145515	120.87	ug/L		94
6) Chloroethane	1.686	64	96256	69.37	ug/L		95
7) Trichlorofluoromethane	1.836	101	146989	51.19	ug/L		94
8) Ethyl Ether	2.044	59	89657	52.78	ug/L		94
9) Freon 113	2.178	101	84483	55.90	ug/L		87
10) Acrolein	2.189	56	75309	220.46	ug/L	#	74
11) Tert-Butyl alcohol	2.665	59	183583	947.09	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	90766	52.32	ug/L		93
13) Iodomethane	2.333	142	167250	82.90	ug/L		96
14) Acetonitrile	2.483	40	868769	680.71	ug/L	#	1
15) Methylene chloride	2.590	84	113608	50.49	ug/L		88
16) Trans-1,2-dichloroethene	2.750	96	110412	55.42	ug/L		84
17) Isopropyl ether	3.093	45	412234	53.18	ug/L		98
18) 1,1-Dichloroethane	3.109	63	207889	58.22	ug/L		99
19) Acetone	2.296	43	71313	87.46	ug/L		96
20) Methyl Acetate	4.259	43	99998	41.74	ug/L	#	100
21) MTBE	2.740	73	305876	58.80	ug/L		100
22) Carbon disulfide	2.355	76	272745	45.30	ug/L		100
24) Acrylonitrile	2.831	53	154477	255.64	ug/L		98
25) Chloroprene	3.146	53	162945	47.77	ug/L		92
26) n-Heptane	4.553	71	3783	2.17	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	166832	55.84	ug/L	#	76
28) Cis-1,2-dichloroethene	3.574	96	124143	51.34	ug/L		98

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 13:20:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.750	96	238433m	93.16 ug/L		
30) Propionitrile	3.729	54	142156	476.42 ug/L		96
31) Bromochloromethane	3.783	128	69956	67.07 ug/L	#	70
32) Tetrahydrofuran	3.788	72	24678	50.38 ug/L	#	22
33) Chloroform	3.836	83	236636	58.12 ug/L		97
34) Cyclohexane	3.938	56	160666	45.15 ug/L		90
35) 1,1,1-Trichloroethane	3.959	97	181533	59.74 ug/L		99
36) Carbon tetrachloride	4.061	117	163512	62.85 ug/L		98
37) Methacrylonitrile	3.826	41	882431	543.48 ug/L	#	19
38) Methylcyclohexane	4.992	83	156866	48.55 ug/L		90
39) Isobutyl Alcohol	4.259	43	99998	706.19 ug/L		99
42) 2-Butanone	3.612	43	124117	89.70 ug/L		96
43) 1,1-Dichloropropene	4.099	75	148897	51.78 ug/L		100
44) Vinyl Acetate	3.136	43	126968	39.25 ug/L		98
45) Benzene	4.280	78	451189	50.25 ug/L		100
46) 1,2-Dichloroethane	4.371	62	148388	52.72 ug/L	#	85
47) Trichloroethene	4.885	95	112248	48.68 ug/L	#	67
48) 1,2-Dichloropropane	5.158	63	119451	51.92 ug/L		99
49) Methyl methacrylate	5.265	69	74035	44.44 ug/L		99
50) Dibromomethane	5.281	93	73667	52.06 ug/L		99
51) Bromodichloromethane	5.431	83	185976	61.93 ug/L	#	99
52) 2-Chloroethylvinyl ether	5.778	63	83603	91.27 ug/L		97
53) Cis-1,3-dichloropropene	5.912	75	223645	61.79 ug/L		100
55) Toluene	6.217	92	374765	63.68 ug/L		100
56) Trans-1,3-dichloropropene	6.570	75	198093	60.41 ug/L		98
57) Ethyl methacrylate	6.624	69	174826	59.38 ug/L		99
58) 1,1,2-Trichloroethane	6.773	83	111151	62.95 ug/L		94
60) 4-Methyl-2-pentanone	6.094	43	260787	89.68 ug/L		95
61) 2-Hexanone	7.062	43	182158	86.77 ug/L		99
62) Tetrachloroethene	6.795	166	174271	60.62 ug/L		97
63) 1,3-Dichloropropane	6.971	76	212497	51.22 ug/L		88
64) Dibromochloromethane	7.185	129	166077	55.29 ug/L		97
65) 1,2-Dibromoethane	7.319	107	133876	52.23 ug/L		100
66) 1-Chlorohexane	7.785	91	201584	46.75 ug/L		94
67) Chlorobenzene	7.806	112	463036	54.76 ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.908	131	178236	58.86 ug/L		99
69) Ethylbenzene	7.897	91	746896	51.60 ug/L		97
70) m,p-Xylene	8.020	106	629169	110.66 ug/L		86
71) o-Xylene	8.394	106	304747	52.90 ug/L		89
72) Xylene (Total)	8.020	106	936589m	160.36 ug/L		
73) Styrene	8.421	104	510596	53.33 ug/L		93
74) Bromoform	8.598	173	105655	56.72 ug/L		100

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

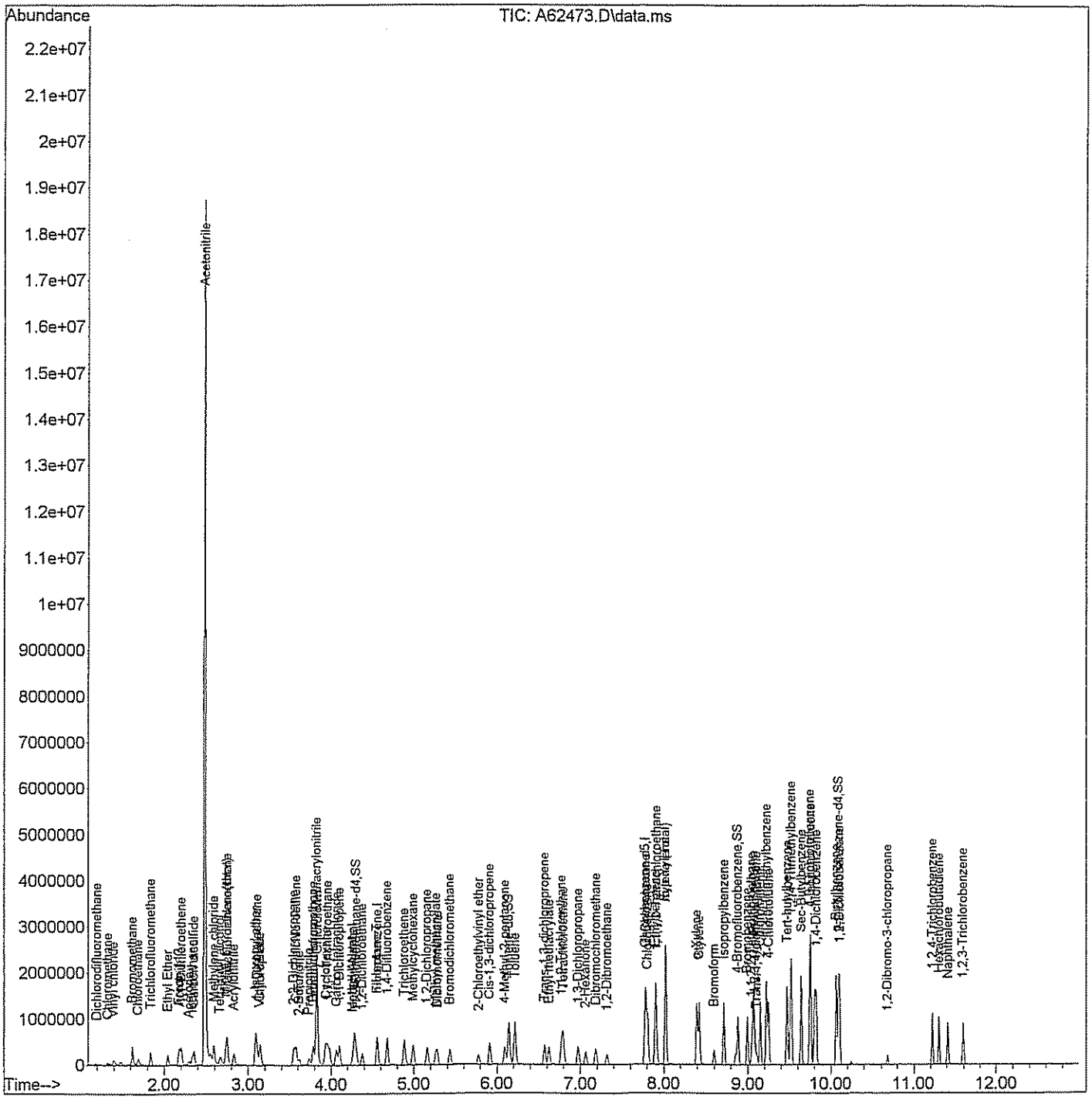
Quant Time: Mar 24 13:20:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	678521	55.39	ug/L		99
77) Bromobenzene	8.994	156	207306	61.81	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	163497	49.63	ug/L		98
79) 1,2,3-Trichloropropane	9.084	110	50667	51.78	ug/L		98
80) n-Propylbenzene	9.068	91	906326	53.45	ug/L		95
81) Trans-1,4-dichloro-2-b...	9.106	53	34859	42.64	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	207954	57.83	ug/L		88
83) 4-Chlorotoluene	9.250	126	220277	59.02	ug/L		78
84) 1,3,5-Trimethylbenzene	9.224	105	665240	55.27	ug/L		92
85) Tert-butylbenzene	9.470	119	612916	58.60	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	700999	56.06	ug/L		90
88) Sec-Butylbenzene	9.641	105	915601	57.12	ug/L		95
89) 1,3-Dichlorobenzene	9.748	146	437530	62.17	ug/L		100
90) 4-Isopropyltoluene	9.759	119	864513	63.43	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	439725	62.27	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	402135	59.82	ug/L		97
94) n-Butylbenzene	10.058	91	738231	54.87	ug/L		90
95) 1,2-Dibromo-3-chloropr...	10.679	75	25418	45.06	ug/L	#	65
96) 1,2,4-Trichlorobenzene	11.224	180	239889	58.81	ug/L		99
97) Hexachlorobutadiene	11.305	225	120345	63.35	ug/L		97
98) Naphthalene	11.412	128	522161	53.71	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	205682	60.23	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

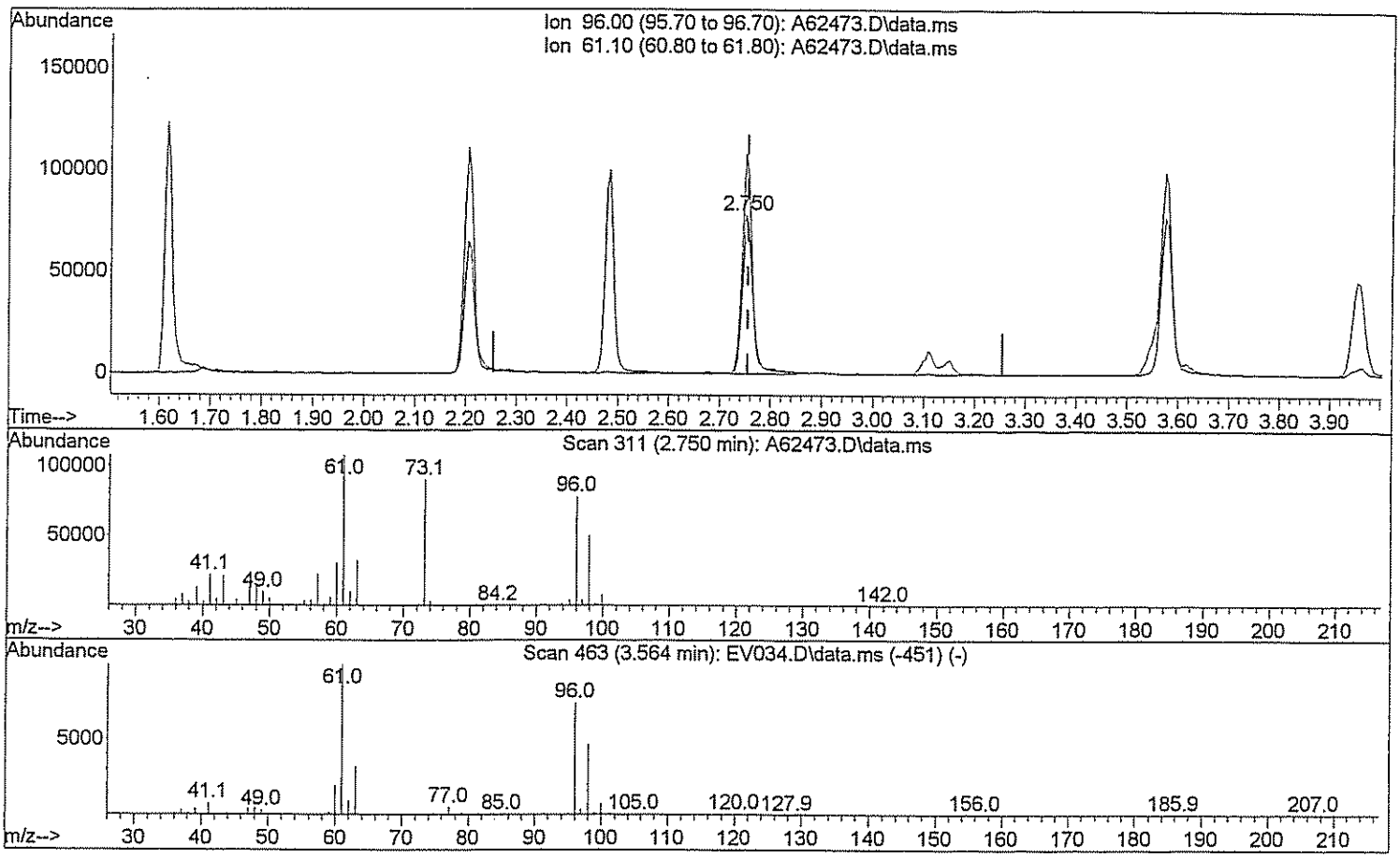
Quant Time: Mar 24 13:20:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 10:50:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62473.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 43.14 ug/L

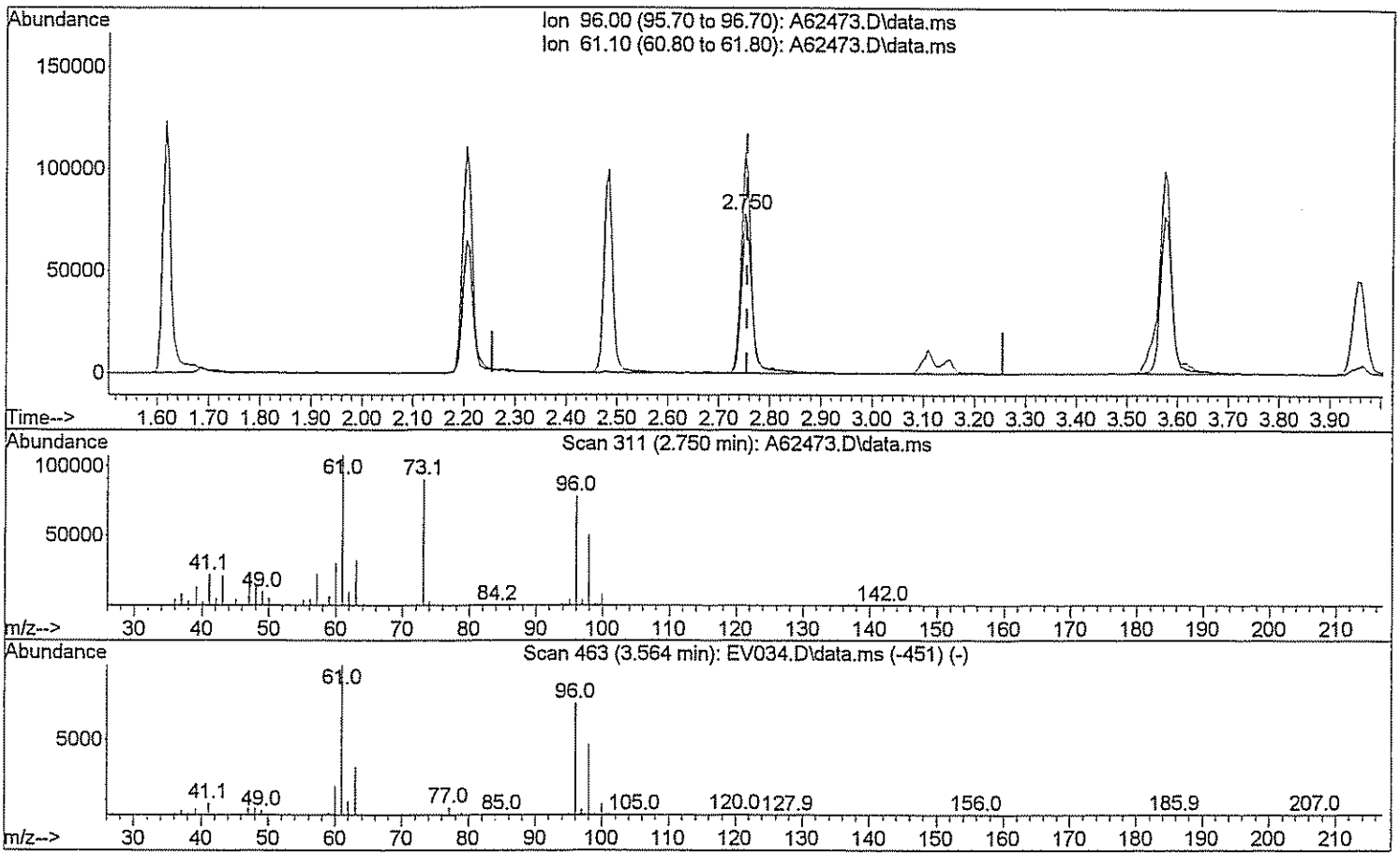
response 110412

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	134.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 10:50:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62473.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 93.16 ug/L m Sm 3/24/09

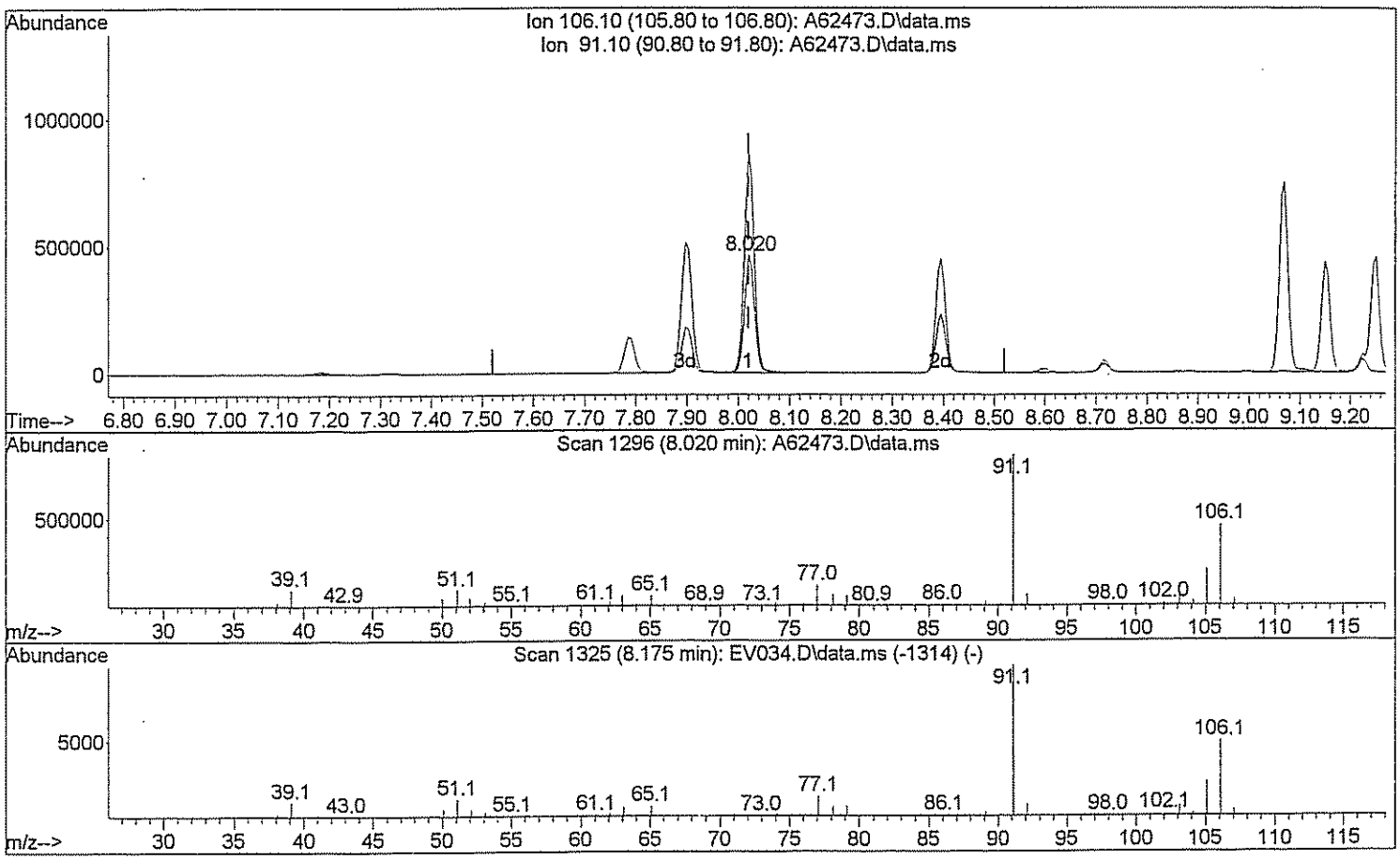
response 238433

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	62.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 10:50:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62473.D\data.ms

(72) Xylene (Total)

8.020min (-0.000) 107.72 ug/L

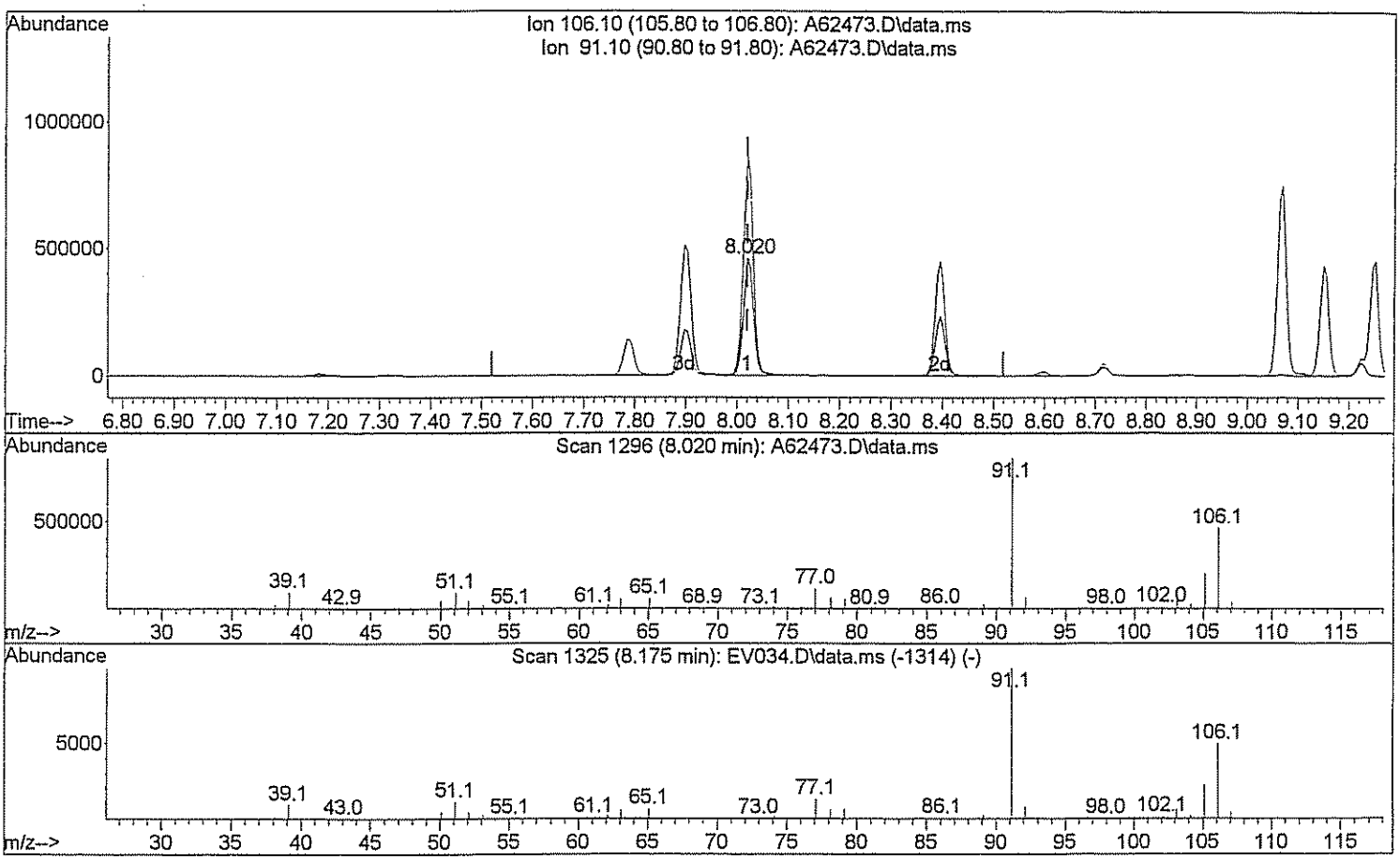
response 629169

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	186.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 10:50:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62473.D\data.ms

(72) Xylene (Total)

8.020min (-0.000) 160.36 ug/L m DW 3/24/09

response 936589

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.26#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108829
Sample Volume :	5	Lab File ID :	A62507.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	55	
71-55-6	1,1,1-Trichloroethane	56	
79-34-5	1,1,2,2-Tetrachloroethane	47	
79-00-5	1,1,2-Trichloroethane	54	
75-34-3	1,1-Dichloroethane	55	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	48	
87-61-6	1,2,3-Trichlorobenzene	61	
96-18-4	1,2,3-Trichloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	51	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
95-50-1	1,2-Dichlorobenzene	56	
107-06-2	1,2-Dichloroethane	49	
78-87-5	1,2-Dichloropropane	46	
108-67-8	1,3,5-trimethylbenzene	50	
541-73-1	1,3-Dichlorobenzene	58	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	57	
594-20-7	2,2-Dichloropropane	50	
78-93-3	2-Butanone	87	
95-49-8	2-Chlorotoluene	54	
591-78-6	2-Hexanone	85	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	86	
67-64-1	Acetone	82	
71-43-2	Benzene	46	
108-86-1	Bromobenzene	58	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108829
Sample Volume :	5	Lab File ID :	A62507.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	62	
75-27-4	Bromodichloromethane	46	
75-25-2	Bromoform	54	
74-83-9	Bromomethane	130	
75-15-0	Carbon Disulfide	46	
56-23-5	Carbon Tetrachloride	61	
108-90-7	Chlorobenzene	50	
75-00-3	Chloroethane	50	
67-66-3	Chloroform	52	
74-87-3	Chloromethane	47	
110-82-7	Cyclohexane	44	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	48	
75-71-8	Dichlorodifluoromethane	44	
100-41-4	Ethylbenzene	47	
106-93-4	Ethylene DiBromide	46	
76-13-1	Freon 113	57	
87-68-3	Hexachlorobutadiene	59	
98-82-8	Isopropylbenzene	50	
79-20-9	Methyl Acetate	41	
108-87-2	Methylcyclohexane	50	
75-09-2	Methylene Chloride	47	
91-20-3	Naphthalene	55	
135-98-8	Sec-Butylbenzene	52	
100-42-5	Styrene	49	
127-18-4	Tetrachloroethylene	56	
108-88-3	Toluene	55	
79-01-6	Trichloroethene	47	
75-69-4	Trichlorofluoromethane	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108829

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108829
Sample Volume :	5	Lab File ID :	A62507.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	150	
75-01-4	Vinyl Chloride	44	
156-59-2	cis-1,2-Dichloroethene	50	
10061-01-5	cis-1,3-Dichloropropene	53	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	48	
103-65-1	n-Propylbenzene	48	
95-47-6	o-Xylene	47	
98-06-6	tert-Butylbenzene	54	
1634-04-4	tert-butyl methyl ether	56	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	53	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62507.D
Acq On : 25 Mar 2009 11:26
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 25 14:02:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	490858	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	444552	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	509762	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	142052	54.47	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 108.94%				
54) Toluene-d8	6.142	98	568210	55.16	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 110.32%				
76) 4-Bromofluorobenzene	8.881	95	240301	50.01	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.02%				
92) 1,2-Dichlorobenzene-d4	10.085	152	275881	58.54	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.08%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	38344	44.09	ug/L		98
3) Chloromethane	1.322	50	80763	47.20	ug/L		100
4) Vinyl chloride	1.392	62	90020	44.32	ug/L		96
5) Bromomethane	1.616	94	170455	131.14	ug/L		86
6) Chloroethane	1.681	64	71174	49.91	ug/L		97
7) Trichlorofluoromethane	1.836	101	149396	50.64	ug/L		97
8) Ethyl Ether	2.044	59	83989	48.10	ug/L		95
9) Freon 113	2.178	101	88957	57.27	ug/L		93
10) Acrolein	2.189	56	75511	215.09	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	200181	1004.83	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	92612	51.95	ug/L		88
13) Iodomethane	2.333	142	144428	69.65	ug/L		98
14) Acetonitrile	2.483	40	765289	588.16	ug/L	#	1
15) Methylene chloride	2.590	84	108490	47.03	ug/L		94
16) Trans-1,2-dichloroethene	2.751	96	106347	51.94	ug/L		88
17) Isopropyl ether	3.093	45	392275	49.24	ug/L		98
18) 1,1-Dichloroethane	3.109	63	203197	55.37	ug/L		96
19) Acetone	2.301	43	68379	81.67	ug/L		93
20) Methyl Acetate	4.265	43	100898	40.84	ug/L	#	100
21) MTBE	2.740	73	301642	56.42	ug/L		100
22) Carbon disulfide	2.355	76	286451	46.28	ug/L		100
24) Acrylonitrile	2.831	53	140879	226.84	ug/L		93
25) Chloroprene	3.147	53	157410	44.90	ug/L		92
26) n-Heptane	4.559	71	3995	2.23	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	153891	50.12	ug/L	#	72
28) Cis-1,2-dichloroethene	3.574	96	123357	49.64	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62507.D
Acq On : 25 Mar 2009 11:26
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 25 14:02:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	235077m	89.37	ug/L		
30) Propionitrile	3.735	54	142834	465.77	ug/L		97
31) Bromochloromethane	3.783	128	66443	61.98	ug/L	#	72
32) Tetrahydrofuran	3.788	72	22661	45.01	ug/L	#	1
33) Chloroform	3.837	83	216921	51.84	ug/L		98
34) Cyclohexane	3.933	56	160517	43.87	ug/L	#	84
35) 1,1,1-Trichloroethane	3.954	97	176132	56.39	ug/L		98
36) Carbon tetrachloride	4.061	117	162549	60.79	ug/L		99
37) Methacrylonitrile	3.826	41	842092	504.63	ug/L	#	17
38) Methylcyclohexane	4.987	83	166640	50.18	ug/L		91
39) Isobutyl Alcohol	4.265	43	100898	693.30	ug/L		94
42) 2-Butanone	3.612	43	125798	86.75	ug/L		96
43) 1,1-Dichloropropene	4.099	75	146343	48.56	ug/L		98
44) Vinyl Acetate	3.136	43	504688	148.86	ug/L		98
45) Benzene	4.281	78	435547	46.29	ug/L		100
46) 1,2-Dichloroethane	4.377	62	145166	49.21	ug/L		91
47) Trichloroethene	4.885	95	113296	46.89	ug/L	#	76
48) 1,2-Dichloropropane	5.163	63	109697	45.50	ug/L		95
49) Methyl methacrylate	5.265	69	73170	41.91	ug/L		97
50) Dibromomethane	5.281	93	70861	47.78	ug/L		100
51) Bromodichloromethane	5.431	83	145343	46.18	ug/L	#	98
52) 2-Chloroethylvinyl ether	5.779	63	91560	95.38	ug/L		95
53) Cis-1,3-dichloropropene	5.912	75	200142	52.77	ug/L		98
55) Toluene	6.217	92	339252	55.01	ug/L		96
56) Trans-1,3-dichloropropene	6.570	75	181232	52.74	ug/L		95
57) Ethyl methacrylate	6.624	69	163724	53.06	ug/L		97
58) 1,1,2-Trichloroethane	6.774	83	99122	53.56	ug/L		90
60) 4-Methyl-2-pentanone	6.094	43	256058	86.14	ug/L		97
61) 2-Hexanone	7.062	43	182473	85.03	ug/L		97
62) Tetrachloroethene	6.795	166	164197	55.88	ug/L		99
63) 1,3-Dichloropropane	6.972	76	196753	46.39	ug/L		92
64) Dibromochloromethane	7.186	129	155978	50.80	ug/L		97
65) 1,2-Dibromoethane	7.319	107	122002	46.56	ug/L		97
66) 1-Chlorohexane	7.785	91	191021	43.33	ug/L		94
67) Chlorobenzene	7.806	112	431328	49.91	ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.908	131	171477	55.39	ug/L		95
69) Ethylbenzene	7.897	91	701750	47.43	ug/L		97
70) m,p-Xylene	8.020	106	592755	101.99	ug/L		85
71) o-Xylene	8.395	106	277892	47.19	ug/L		93
72) Xylene (Total)	8.020	106	871861m	146.03	ug/L		
73) Styrene	8.421	104	477706	48.81	ug/L		95
74) Bromoform	8.598	173	102210	53.68	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62507.D
Acq On : 25 Mar 2009 11:26
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 25 14:02:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

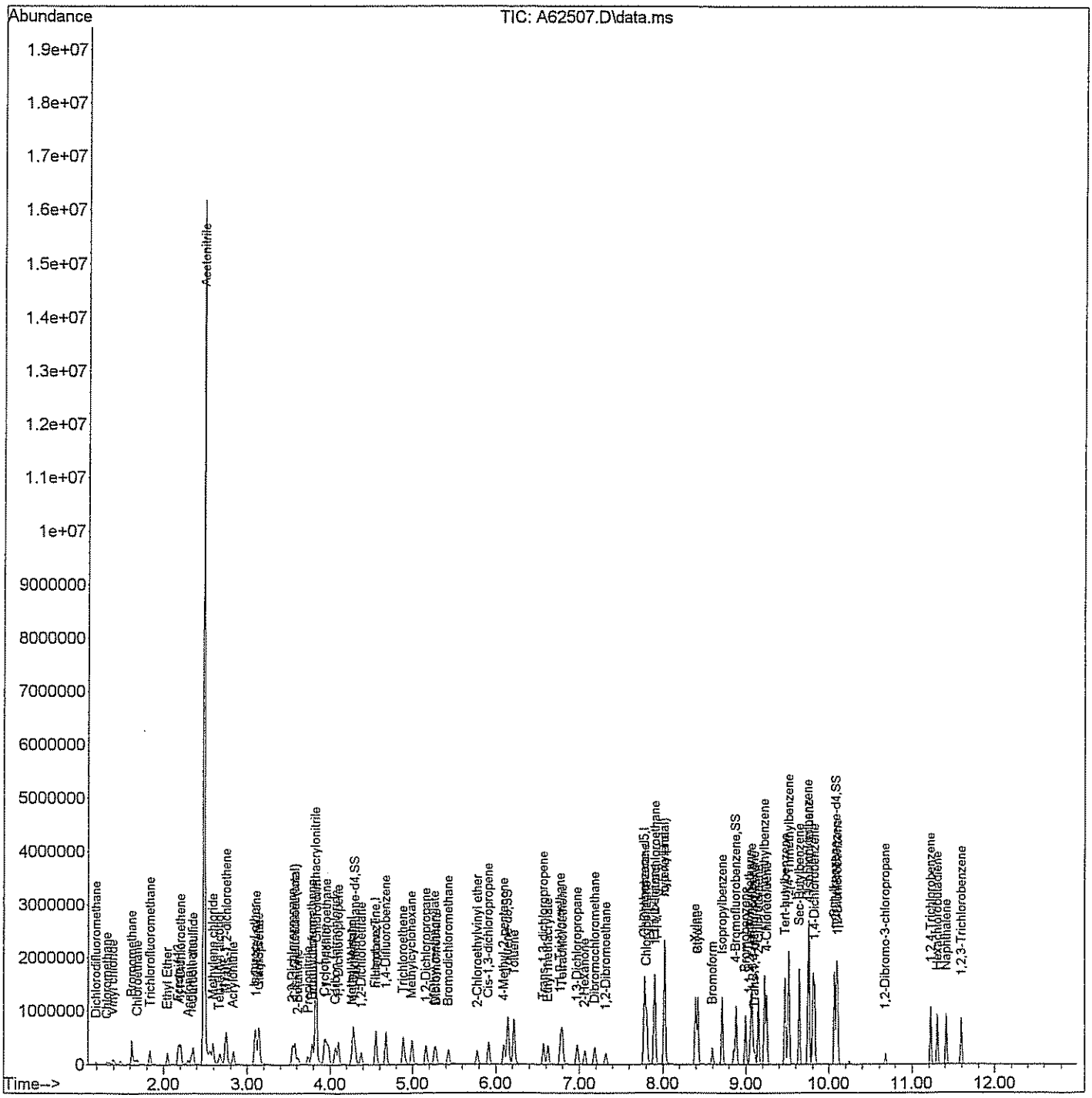
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	631831	50.46	ug/L		98
77) Bromobenzene	8.994	156	197657	57.65	ug/L		97
78) 1,1,2,2-Tetrachloroethane	9.047	83	157161	46.67	ug/L		97
79) 1,2,3-Trichloropropane	9.085	110	49219	49.21	ug/L		99
80) n-Propylbenzene	9.069	91	837673	48.33	ug/L		95
81) Trans-1,4-dichloro-2-b...	9.106	53	32829	39.21	ug/L	#	27
82) 2-Chlorotoluene	9.149	126	197395	53.70	ug/L		86
83) 4-Chlorotoluene	9.251	126	207769	54.46	ug/L		74
84) 1,3,5-Trimethylbenzene	9.224	105	621847	50.54	ug/L		92
85) Tert-butylbenzene	9.470	119	577841	54.05	ug/L		92
87) 1,2,4-Trimethylbenzene	9.518	105	653549	51.13	ug/L		92
88) Sec-Butylbenzene	9.641	105	846526	51.66	ug/L		92
89) 1,3-Dichlorobenzene	9.748	146	414733	57.65	ug/L		99
90) 4-Isopropyltoluene	9.759	119	800025	57.42	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	414184	57.38	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	385675	56.13	ug/L		100
94) n-Butylbenzene	10.064	91	663765	48.27	ug/L	#	87
95) 1,2-Dibromo-3-chloropr...	10.679	75	26191	45.42	ug/L	#	64
96) 1,2,4-Trichlorobenzene	11.225	180	240973	57.79	ug/L		100
97) Hexachlorobutadiene	11.305	225	115433	59.44	ug/L		96
98) Naphthalene	11.412	128	545379	54.88	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	211553	60.60	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62507.D
Acq On : 25 Mar 2009 11:26
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

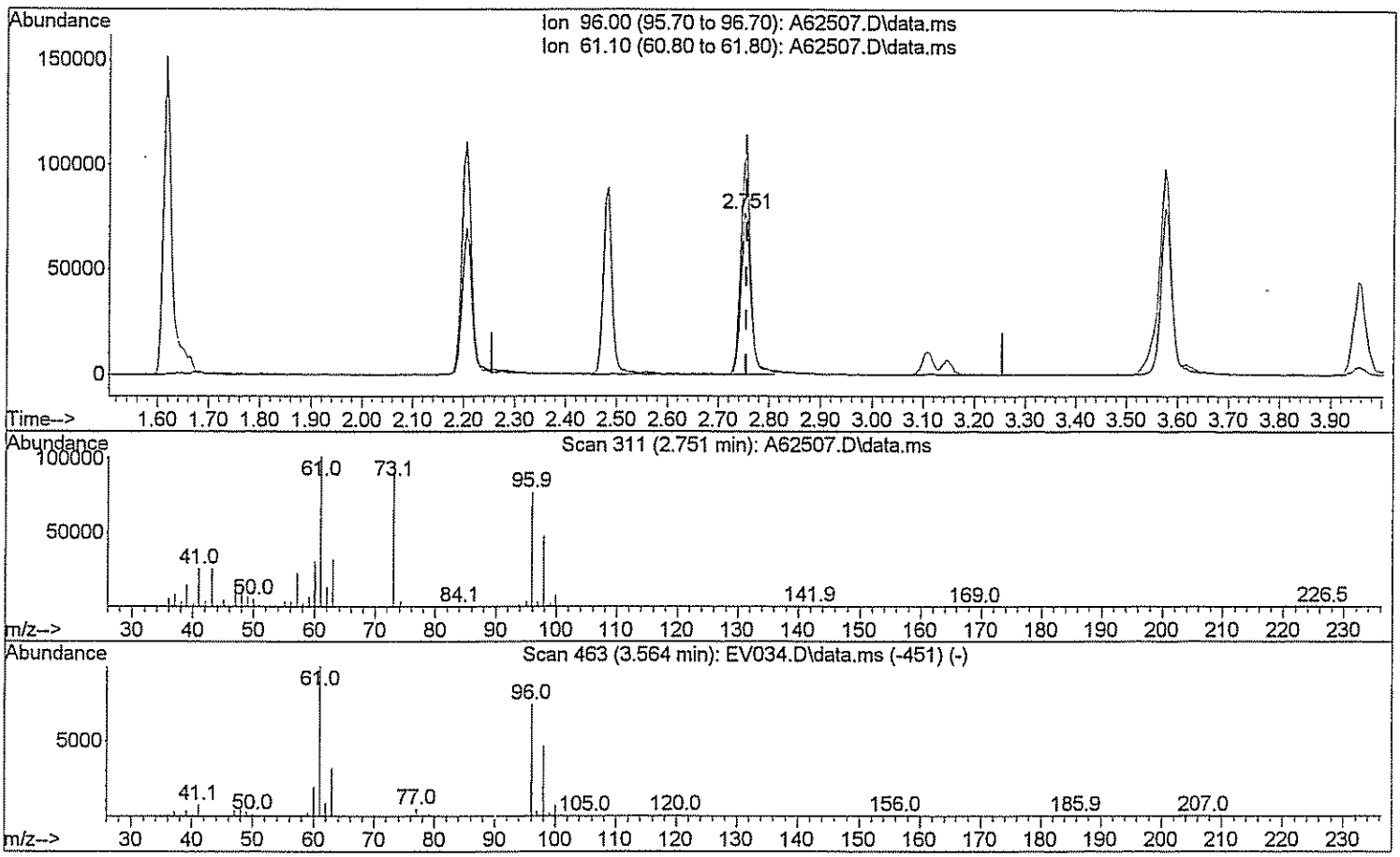
Quant Time: Mar 25 14:02:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62507.D
Acq On : 25 Mar 2009 11:26
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 25 11:41:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62507.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 40.43 ug/L

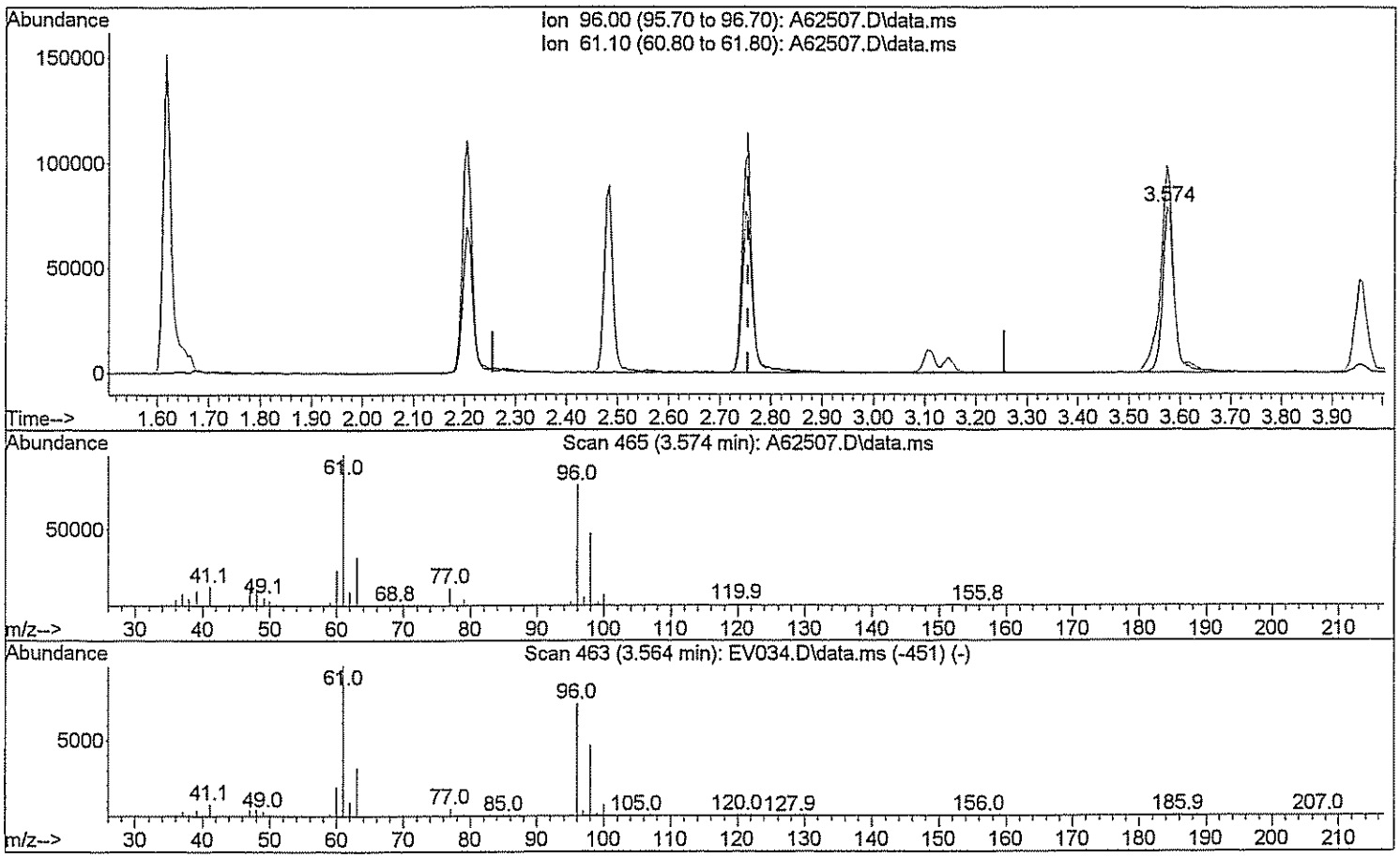
response 106347

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	138.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62507.D
Acq On : 25 Mar 2009 11:26
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 25 11:41:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62507.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (+0.819) 89.37 ug/L m Dm 3/25/09

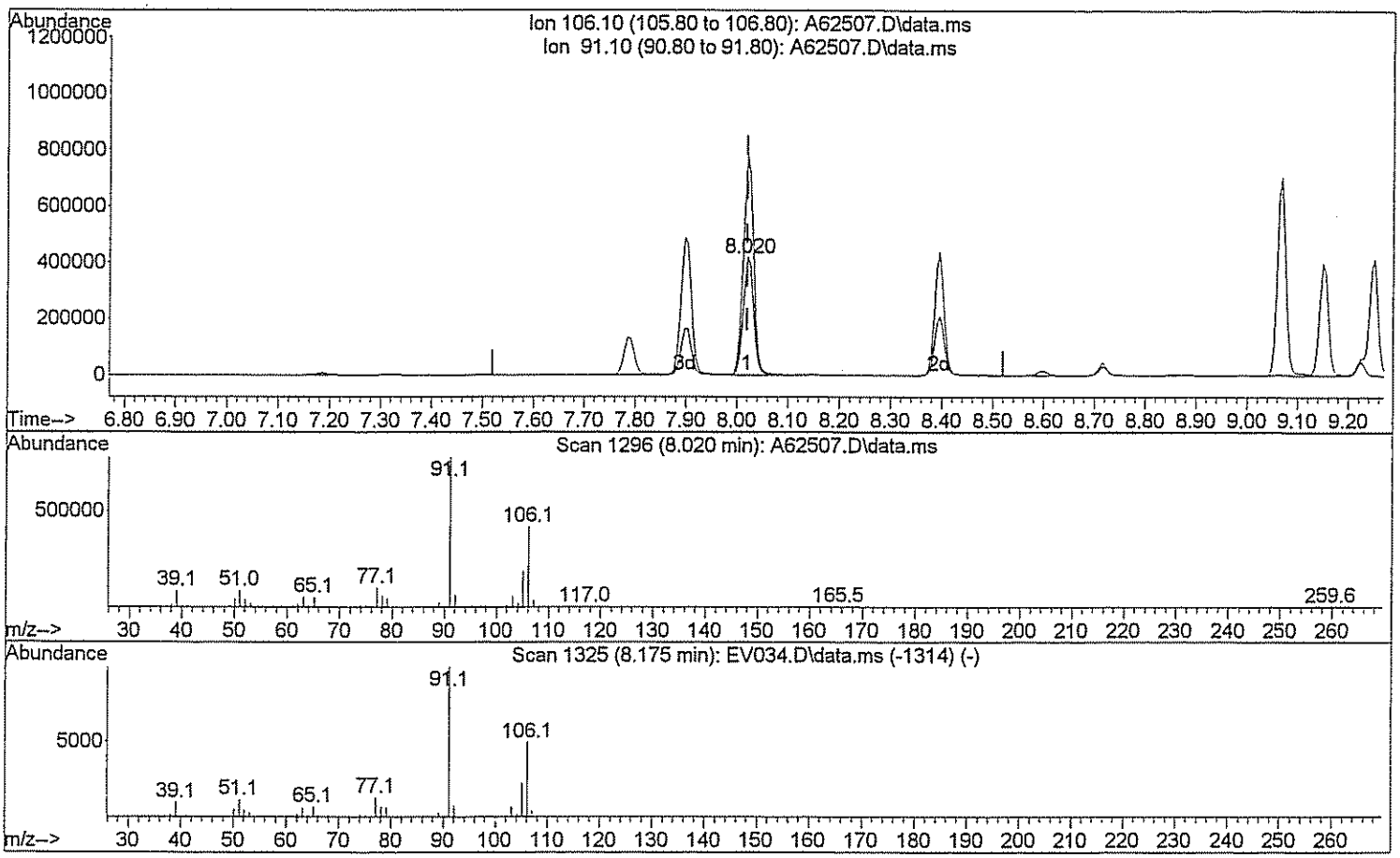
response 235077

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	62.87#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62507.D
Acq On : 25 Mar 2009 11:26
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 25 11:41:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62507.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 99.28 ug/L

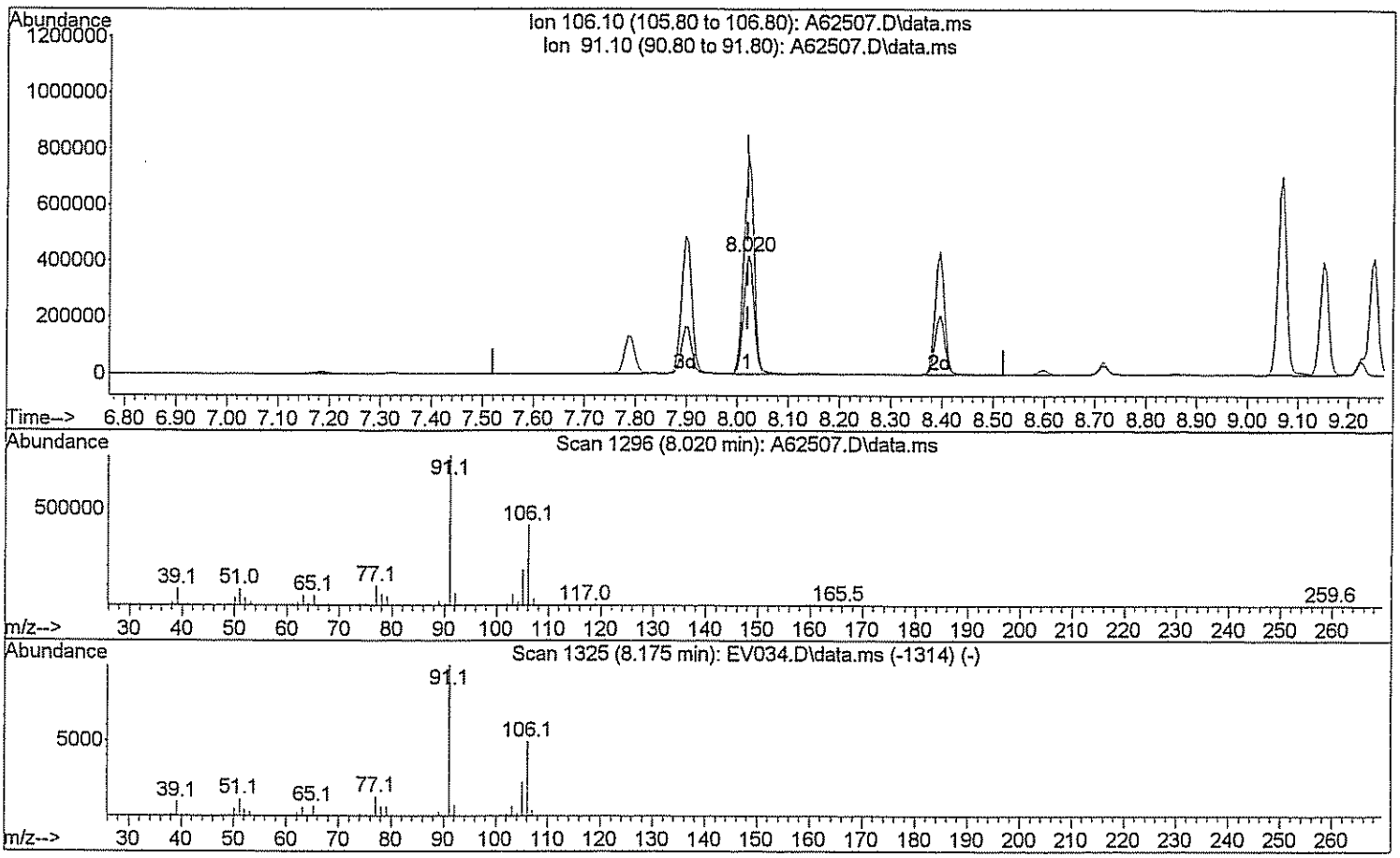
response 592755

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	185.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C1\
Data File : A62507.D
Acq On : 25 Mar 2009 11:26
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 25 11:41:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62507.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 146.03 ug/L m Sm 3/25/09

response 871861

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.80#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108811
Sample Volume :	5	Lab File ID :	A62446.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	52	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	50	
79-00-5	1,1,2-Trichloroethane	49	
75-34-3	1,1-Dichloroethane	60	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	50	
87-61-6	1,2,3-Trichlorobenzene	59	
96-18-4	1,2,3-Trichloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	59	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	49	
95-50-1	1,2-Dichlorobenzene	60	
107-06-2	1,2-Dichloroethane	52	
78-87-5	1,2-Dichloropropane	49	
108-67-8	1,3,5-trimethylbenzene	56	
541-73-1	1,3-Dichlorobenzene	61	
142-28-9	1,3-Dichloropropane	42	
106-46-7	1,4-Dichlorobenzene	62	
594-20-7	2,2-Dichloropropane	55	
78-93-3	2-Butanone	100	
95-49-8	2-Chlorotoluene	60	
591-78-6	2-Hexanone	81	
106-43-4	4-Chlorotoluene	58	
99-87-6	4-Isopropyltoluene	60	
108-10-1	4-Methyl-2-Pentanone	71	
67-64-1	Acetone	110	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108811
Sample Volume :	5	Lab File ID :	A62446.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	59	
75-27-4	Bromodichloromethane	50	
75-25-2	Bromoform	47	
74-83-9	Bromomethane	66	
75-15-0	Carbon Disulfide	52	
56-23-5	Carbon Tetrachloride	58	
108-90-7	Chlorobenzene	55	
75-00-3	Chloroethane	51	
67-66-3	Chloroform	56	
74-87-3	Chloromethane	61	
110-82-7	Cyclohexane	55	
124-48-1	Dibromochloromethane	54	
74-95-3	Dibromomethane	52	
75-71-8	Dichlorodifluoromethane	55	
100-41-4	Ethylbenzene	52	
106-93-4	Ethylene DiBromide	50	
76-13-1	Freon 113	60	
87-68-3	Hexachlorobutadiene	56	
98-82-8	Isopropylbenzene	57	
79-20-9	Methyl Acetate	66	
108-87-2	Methylcyclohexane	57	
75-09-2	Methylene Chloride	52	
91-20-3	Naphthalene	55	
135-98-8	Sec-Butylbenzene	56	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	56	
108-88-3	Toluene	58	
79-01-6	Trichloroethene	48	
75-69-4	Trichlorofluoromethane	72	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108811

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108811
Sample Volume :	5	Lab File ID :	A62446.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	43	
75-01-4	Vinyl Chloride	51	
156-59-2	cis-1,2-Dichloroethene	54	
10061-01-5	cis-1,3-Dichloropropene	44	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	54	
103-65-1	n-Propylbenzene	55	
95-47-6	o-Xylene	54	
98-06-6	tert-Butylbenzene	58	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	50	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62446.D
Acq On : 23 Mar 2009 16:41
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 24 09:44:27 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	317703	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	277957	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.779	117	333011	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	92389	52.64	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 105.28%				
53) Toluene-d8	6.148	98	302517	49.03	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 98.06%				
75) 4-Bromofluorobenzene	8.881	95	170083	51.47	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 102.94%				
91) 1,2-Dichlorobenzene-d4	10.085	152	217960	60.46	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 120.92%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	39338	54.72	ug/L		97
3) Chloromethane	1.349	50	54698	60.75	ug/L		98
4) Vinyl chloride	1.418	62	69576	50.78	ug/L		99
5) Bromomethane	1.648	94	27155	66.58	ug/L		95
6) Chloroethane	1.718	64	45856	50.86	ug/L		98
7) Trichlorofluoromethane	1.868	101	108924	71.59	ug/L		94
8) Ethyl Ether	2.066	59	61808	52.39	ug/L		97
9) Freon 113	2.205	101	65157	60.45	ug/L		91
10) Acrolein	2.210	56	59117	294.11	ug/L	#	36
11) Tert-Butyl alcohol	2.681	59	90480	1317.79	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	60535	51.81	ug/L		91
13) Iodomethane	2.355	142	110216	105.57	ug/L		96
14) Acetonitrile	2.504	40	505258	670.92	ug/L	#	1
15) Methylene chloride	2.611	84	73619	51.77	ug/L		99
16) Trans-1,2-dichloroethene	2.772	96	69989	55.08	ug/L		87
17) Isopropyl ether	3.109	45	277648	54.31	ug/L		98
18) 1,1-Dichloroethane	3.125	63	135612	59.94	ug/L		97
19) Acetone	2.322	43	36443	109.80	ug/L		97
20) Methyl Acetate	4.264	43	50658	66.29	ug/L	#	100
21) MTBE	2.756	73	209985	57.11	ug/L		100
22) Carbon disulfide	2.376	76	183375	51.58	ug/L		100
24) Acrylonitrile	2.852	53	116322	318.41	ug/L		100
25) Chloroprene	3.162	53	108857	50.30	ug/L		93
26) n-Heptane	4.564	71	2261	2.05	ug/L	#	1
27) 2,2-Dichloropropane	3.564	77	102211	55.31	ug/L	#	67
28) Cis-1,2-dichloroethene	3.590	96	81449	53.90	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62446.D
Acq On : 23 Mar 2009 16:41
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 24 09:44:27 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	154851m	112.23 ug/L	
30) Propionitrile	3.746	54	88850	441.85 ug/L	100
31) Bromochloromethane	3.799	128	43365	59.10 ug/L	85
32) Tetrahydrofuran	3.628	72	17445	46.20 ug/L #	1
33) Chloroform	3.847	83	143013	55.80 ug/L	99
34) Cyclohexane	3.949	56	125385	55.13 ug/L	91
35) 1,1,1-Trichloroethane	3.970	97	117084	59.95 ug/L	99
36) Carbon tetrachloride	4.077	117	103591	57.52 ug/L	99
37) Methylcyclohexane	4.997	83	124131	57.17 ug/L	89
38) Isobutyl Alcohol	4.264	43	50658	501.46 ug/L	95
41) 2-Butanone	3.622	43	79946	103.88 ug/L #	90
42) 1,1-Dichloropropene	4.109	75	91265	50.39 ug/L	94
43) Vinyl Acetate	3.152	43	85710	43.21 ug/L	99
44) Benzene	4.291	78	287258	47.94 ug/L	100
45) 1,2-Dichloroethane	4.382	62	97588m	51.56 ug/L	
46) Trichloroethene	4.890	95	74502	48.50 ug/L #	77
47) 1,2-Dichloropropane	5.169	63	76971	49.40 ug/L	100
48) Methyl methacrylate	5.270	69	50509	49.06 ug/L	95
49) Dibromomethane	5.286	93	48795	51.56 ug/L	99
50) Bromodichloromethane	5.441	83	101077	50.43 ug/L	100
51) 2-Chloroethylvinyl ether	5.784	63	149227	142.78 ug/L	99
52) Cis-1,3-dichloropropene	5.918	75	115044	44.19 ug/L	98
54) Toluene	6.222	92	188574	57.63 ug/L	98
55) Trans-1,3-dichloropropene	6.576	75	103083	49.78 ug/L	98
56) Ethyl methacrylate	6.629	69	95516	49.27 ug/L	99
57) 1,1,2-Trichloroethane	6.779	83	56769	49.08 ug/L	88
59) 4-Methyl-2-pentanone	6.099	43	164905	70.82 ug/L	95
60) 2-Hexanone	7.068	43	128826	80.70 ug/L	94
61) Tetrachloroethene	6.795	166	99265	56.41 ug/L	97
62) 1,3-Dichloropropane	6.977	76	113698	42.13 ug/L	91
63) Dibromochloromethane	7.191	129	99800	53.86 ug/L	96
64) 1,2-Dibromoethane	7.319	107	83175	49.66 ug/L	97
65) 1-Chlorohexane	7.790	91	130804	47.31 ug/L	94
66) Chlorobenzene	7.811	112	299877	54.83 ug/L	89
67) 1,1,1,2-Tetrachloroethane	7.908	131	119171	52.39 ug/L	99
68) Ethylbenzene	7.902	91	484419	51.86 ug/L	98
69) m,p-Xylene	8.020	106	401937	104.19 ug/L	88
70) o-Xylene	8.394	106	205045	53.92 ug/L	92
71) Xylene (Total)	8.020	106	610244m	159.99 ug/L	
72) Styrene	8.421	104	342540	53.61 ug/L	92
73) Bromoform	8.598	173	70424	47.40 ug/L	97
74) Isopropylbenzene	8.715	105	478346	56.63 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62446.D
Acq On : 23 Mar 2009 16:41
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 24 09:44:27 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

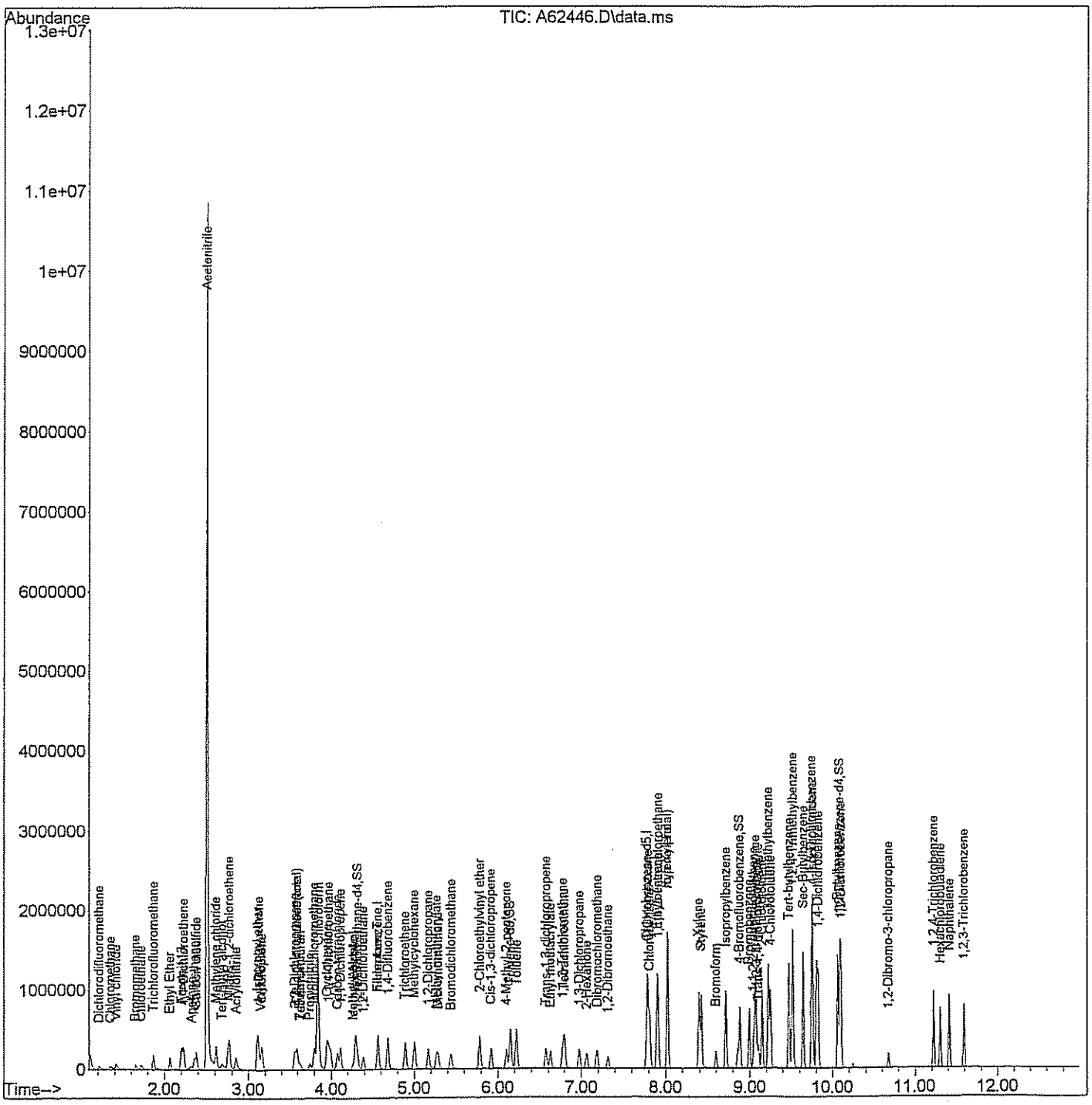
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	145875	60.44 ug/L	99
77) 1,1,2,2-Tetrachloroethane	9.047	83	129843	50.31 ug/L	98
78) 1,2,3-Trichloropropane	9.085	110	39817	51.70 ug/L	99
79) n-Propylbenzene	9.068	91	630412	55.09 ug/L	95
80) Trans-1,4-dichloro-2-b...	9.106	53	38973	53.15 ug/L #	1
81) 2-Chlorotoluene	9.149	126	148387	60.48 ug/L	88
82) 4-Chlorotoluene	9.250	126	152507	58.45 ug/L	81
83) 1,3,5-Trimethylbenzene	9.224	105	497176	56.10 ug/L	94
84) Tert-butylbenzene	9.470	119	462540	58.43 ug/L	93
86) 1,2,4-Trimethylbenzene	9.518	105	512713	54.38 ug/L	88
87) Sec-Butylbenzene	9.641	105	688414	56.17 ug/L	94
88) 1,3-Dichlorobenzene	9.748	146	325367	60.68 ug/L	99
89) 4-Isopropyltoluene	9.759	119	632557	60.14 ug/L	96
90) 1,4-Dichlorobenzene	9.823	146	332266	62.07 ug/L	99
92) 1,2-Dichlorobenzene	10.101	146	310493	60.27 ug/L	97
93) n-Butylbenzene	10.058	91	541302	54.32 ug/L #	88
94) 1,2-Dibromo-3-chloropr...	10.679	75	24868	48.80 ug/L #	70
95) 1,2,4-Trichlorobenzene	11.224	180	208370	59.14 ug/L	100
96) Hexachlorobutadiene	11.305	225	87023	55.56 ug/L	97
97) Naphthalene	11.412	128	534714	55.49 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	185732	58.97 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62446.D
Acq On : 23 Mar 2009 16:41
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 57 Sample Multiplier: 1

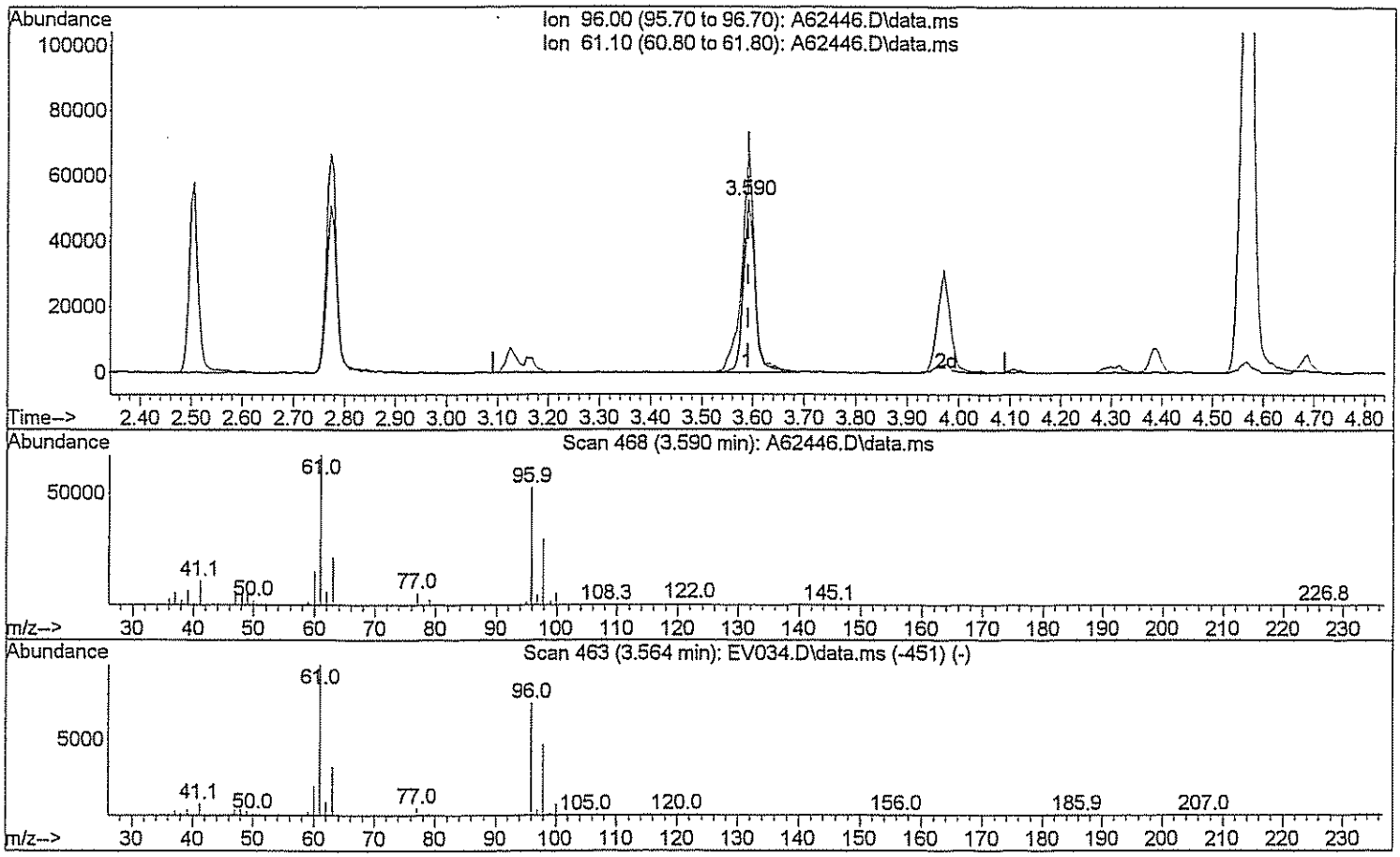
Quant Time: Mar 24 09:44:27 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62446.D
Acq On : 23 Mar 2009 16:41
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 24 09:15:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62446.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 59.03 ug/L

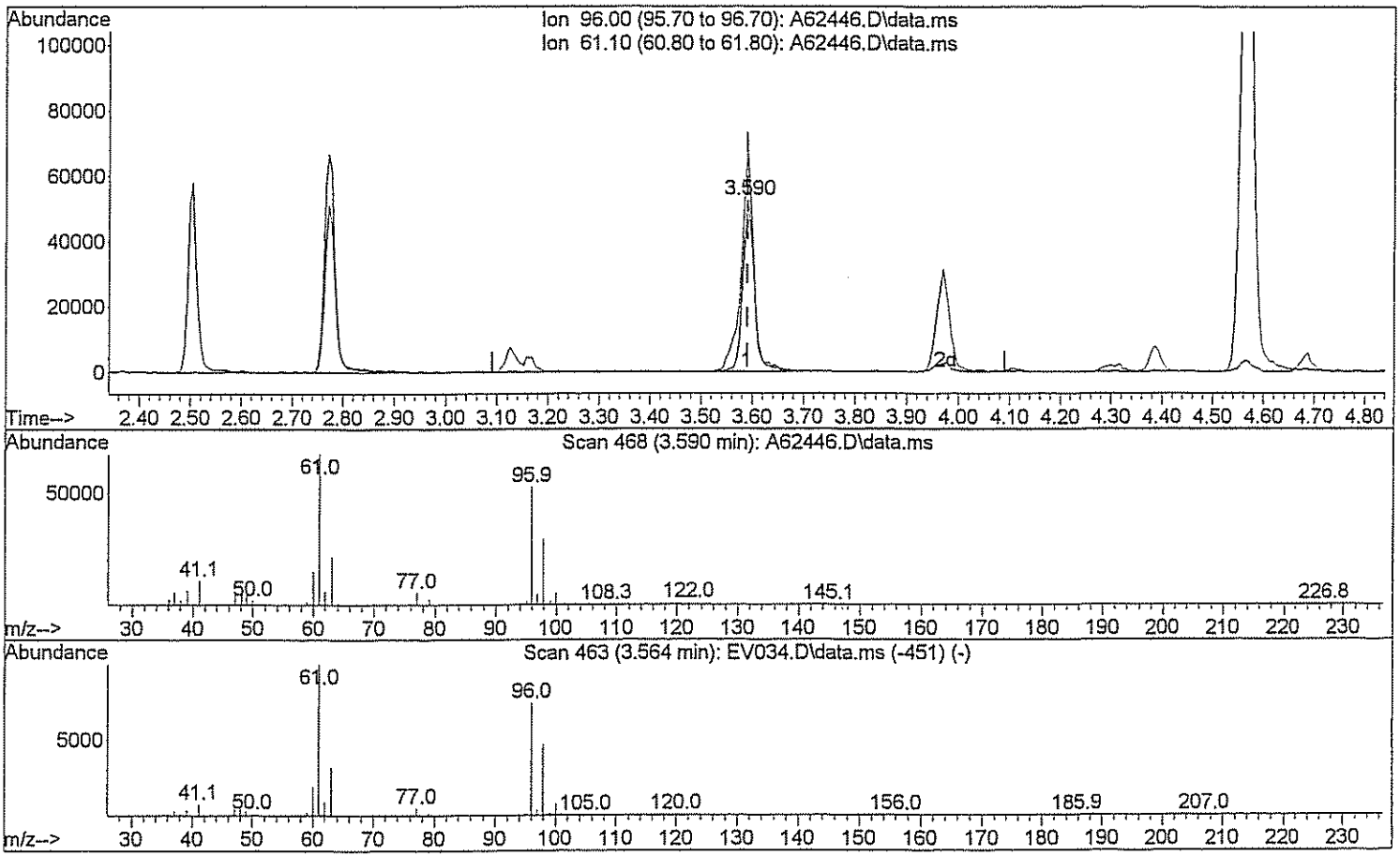
response 81449

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	145.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62446.D
Acq On : 23 Mar 2009 16:41
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 24 09:15:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62446.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 112.23 ug/L m 3/24/09

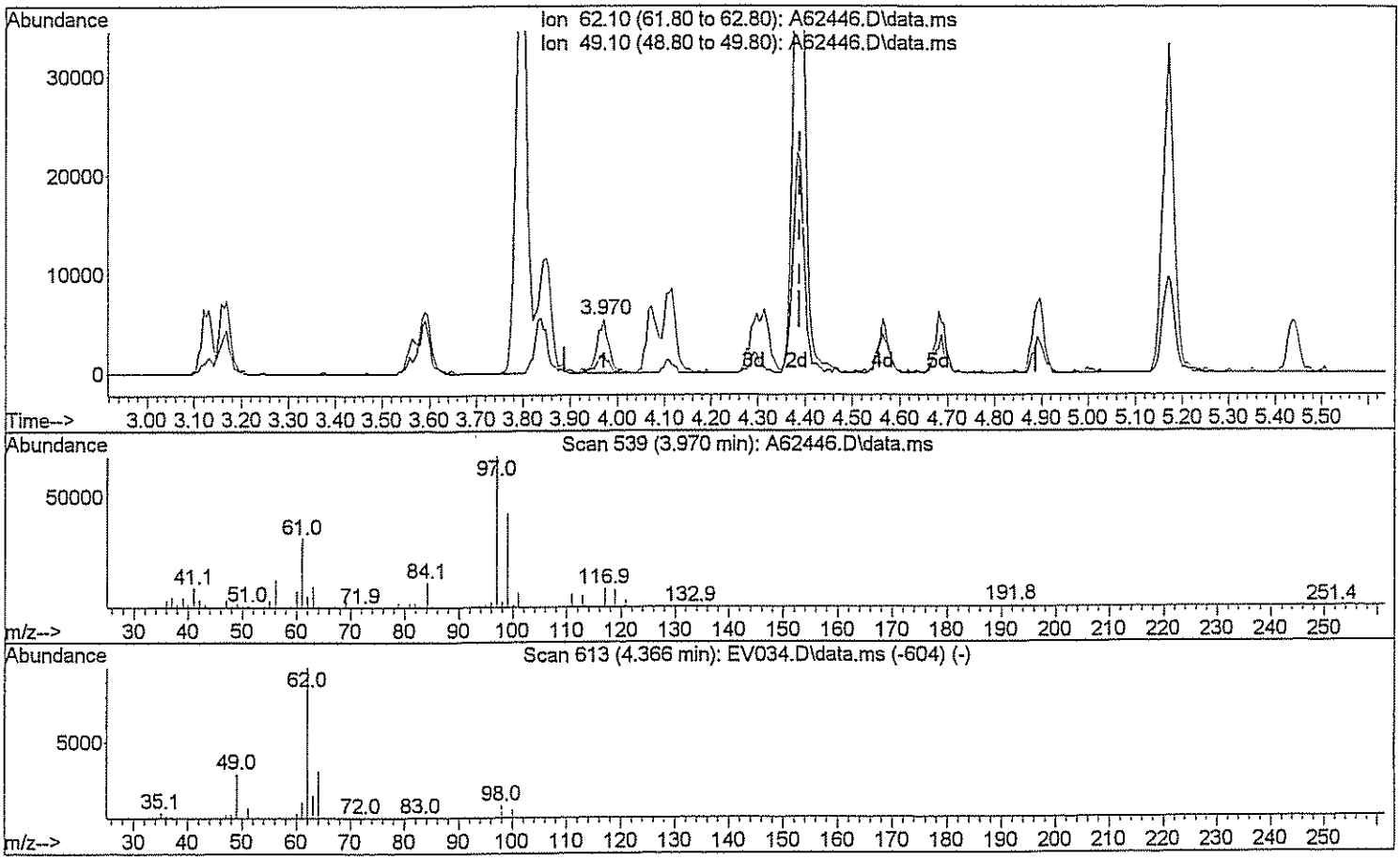
response 154851

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	76.36#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62446.D
Acq On : 23 Mar 2009 16:41
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 24 09:15:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62446.D\data.ms

(45) 1,2-Dichloroethane

3.970min (-0.417) 4.93 ug/L

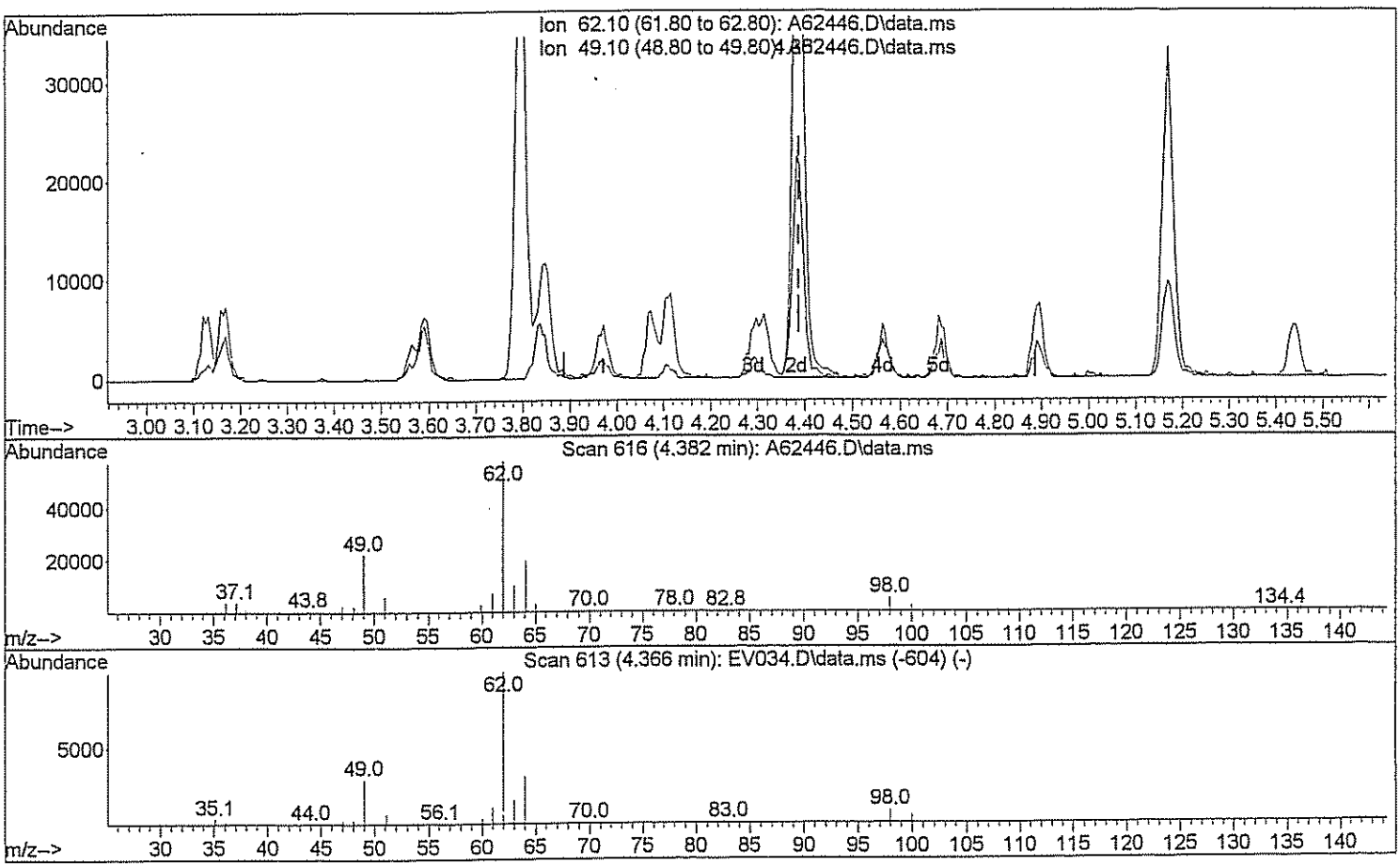
response 9330

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	34.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62446.D
Acq On : 23 Mar 2009 16:41
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 24 09:15:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62446.D\data.ms

(45) 1,2-Dichloroethane

4.382min (-0.006) 51.56 ug/L m SM 3/24/09

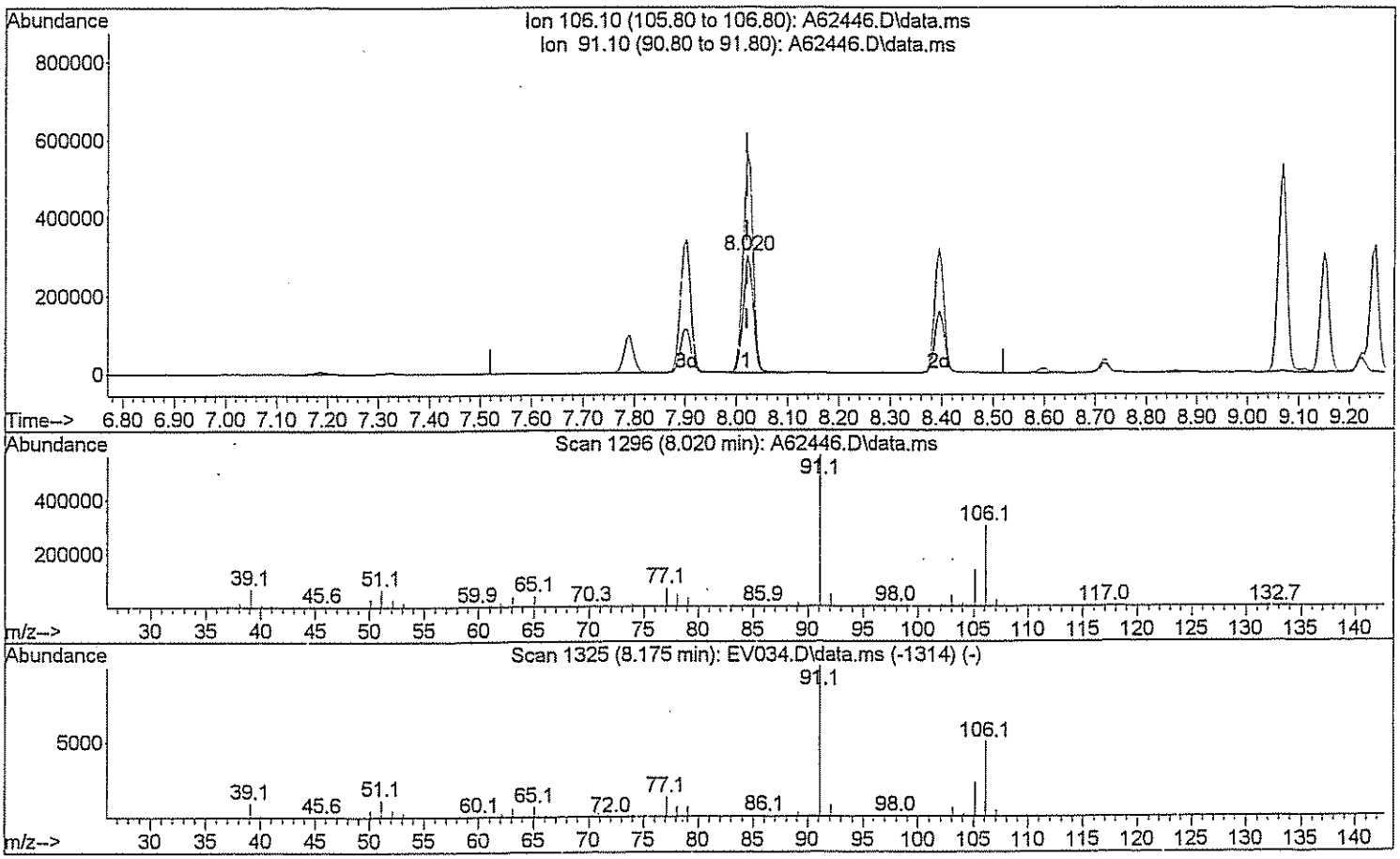
response 97588

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	3.29#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62446.D
Acq On : 23 Mar 2009 16:41
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 24 09:15:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62446.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 105.38 ug/L

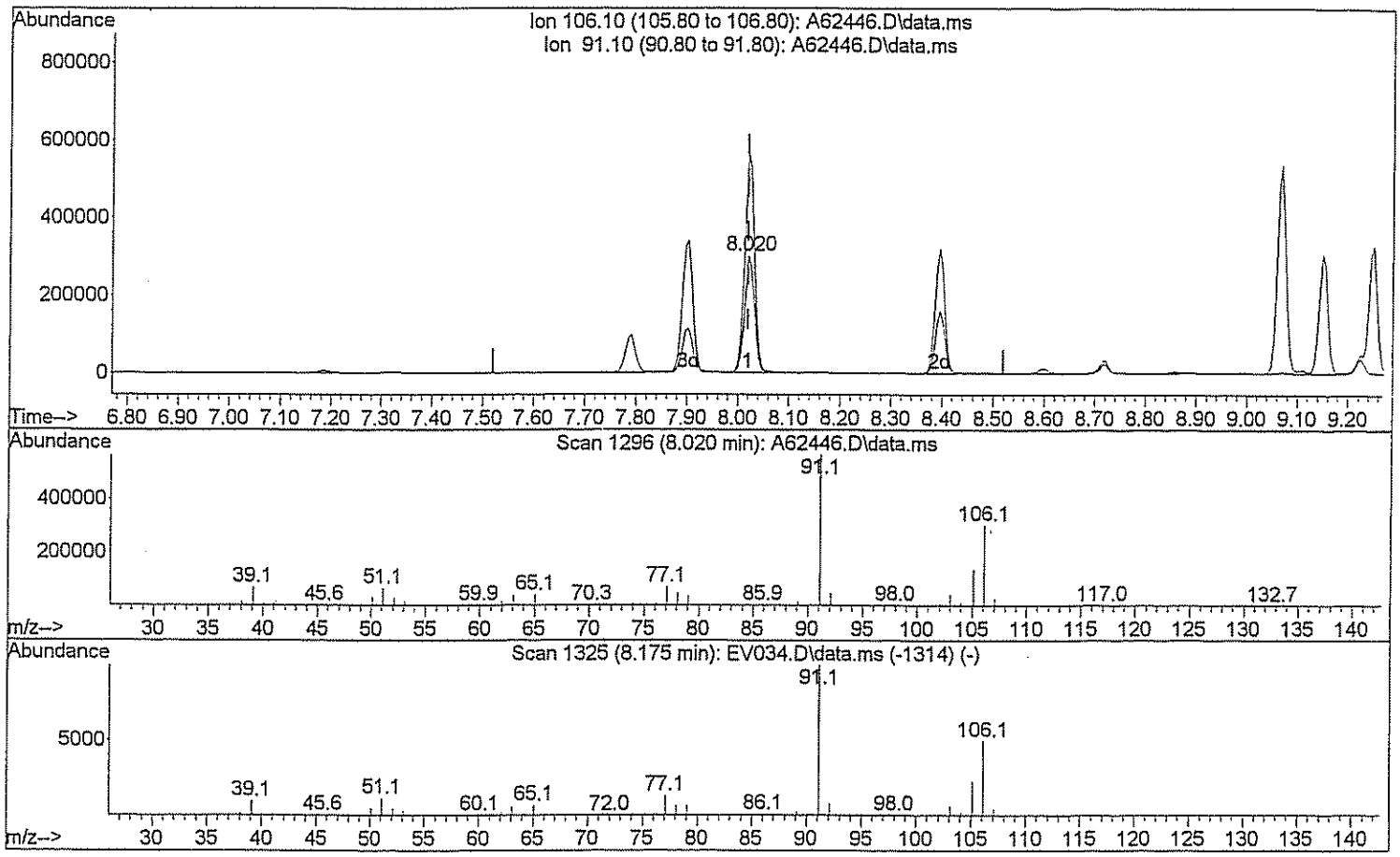
response 401937

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	190.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C2\
Data File : A62446.D
Acq On : 23 Mar 2009 16:41
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 24 09:15:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62446.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 159.99 ug/L m Sm 3/24/09

response 610244

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.22#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108821
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	56	
71-55-6	1,1,1-Trichloroethane	56	
79-34-5	1,1,2,2-Tetrachloroethane	53	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	56	
75-35-4	1,1-Dichloroethene	50	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	60	
96-18-4	1,2,3-Trichloropropane	56	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	53	
96-12-8	1,2-Dibromo-3-Chloropropane	57	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	50	
78-87-5	1,2-Dichloropropane	51	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	60	
142-28-9	1,3-Dichloropropane	52	
106-46-7	1,4-Dichlorobenzene	60	
594-20-7	2,2-Dichloropropane	52	
78-93-3	2-Butanone	99	
95-49-8	2-Chlorotoluene	55	
591-78-6	2-Hexanone	96	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	98	
67-64-1	Acetone	86	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108821
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	65	
75-27-4	Bromodichloromethane	49	
75-25-2	Bromoform	60	
74-83-9	Bromomethane	140	
75-15-0	Carbon Disulfide	44	
56-23-5	Carbon Tetrachloride	61	
108-90-7	Chlorobenzene	53	
75-00-3	Chloroethane	90	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	48	
110-82-7	Cyclohexane	51	
124-48-1	Dibromochloromethane	52	
74-95-3	Dibromomethane	50	
75-71-8	Dichlorodifluoromethane	50	
100-41-4	Ethylbenzene	49	
106-93-4	Ethylene DiBromide	50	
76-13-1	Freon 113	61	
87-68-3	Hexachlorobutadiene	59	
98-82-8	Isopropylbenzene	53	
79-20-9	Methyl Acetate	56	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	45	
91-20-3	Naphthalene	60	
135-98-8	Sec-Butylbenzene	54	
100-42-5	Styrene	51	
127-18-4	Tetrachloroethylene	58	
108-88-3	Toluene	63	
79-01-6	Trichloroethene	48	
75-69-4	Trichlorofluoromethane	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108821

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108821
Sample Volume :	5	Lab File ID :	A62445.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	42	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	49	
10061-01-5	cis-1,3-Dichloropropene	61	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	51	
103-65-1	n-Propylbenzene	51	
95-47-6	o-Xylene	51	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	58	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	61	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 18:57:45 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	456708	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	404890	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	484072	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	131372	54.15	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 108.30%				
54) Toluene-d8	6.142	98	563665	60.08	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 120.16%#				
76) 4-Bromofluorobenzene	8.881	95	228057	49.98	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.96%				
92) 1,2-Dichlorobenzene-d4	10.085	152	266233	59.49	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	40219	49.70	ug/L		93
3) Chloromethane	1.338	50	77086m	48.42	ug/L		
4) Vinyl chloride	1.392	62	82130	43.46	ug/L		95
5) Bromomethane	1.616	94	173171	138.44	ug/L		93
6) Chloroethane	1.681	64	119584	90.13	ug/L		94
7) Trichlorofluoromethane	1.830	101	139811	50.93	ug/L		97
8) Ethyl Ether	2.044	59	83873	51.63	ug/L		96
9) Freon 113	2.173	101	88417	61.18	ug/L		89
10) Acrolein	2.189	56	77240	236.46	ug/L	#	74
11) Tert-Butyl alcohol	2.676	59	222525	1200.51	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	83536	50.36	ug/L		91
13) Iodomethane	2.328	142	56110	29.08	ug/L		92
14) Acetonitrile	2.478	40	800370	657.02	ug/L	#	1
15) Methylene chloride	2.590	84	96796	45.17	ug/L		95
16) Trans-1,2-dichloroethene	2.750	96	99660	52.31	ug/L		84
17) Isopropyl ether	3.093	45	386912	52.19	ug/L		100
18) 1,1-Dichloroethane	3.109	63	191747	56.15	ug/L		96
19) Acetone	2.296	43	67404	86.46	ug/L		95
20) Methyl Acetate	4.259	43	120309	55.81	ug/L	#	100
21) MTBE	2.740	73	289951	58.29	ug/L		100
22) Carbon disulfide	2.349	76	256339	44.54	ug/L		100
24) Acrylonitrile	2.831	53	170980	295.89	ug/L		96
25) Chloroprene	3.146	53	156617	48.02	ug/L		89
26) n-Heptane	4.559	71	3786	2.27	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	147687	51.70	ug/L	#	66
28) Cis-1,2-dichloroethene	3.574	96	113895	49.26	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 18:57:45 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	218980m	89.47	ug/L		
30) Propionitrile	3.735	54	157760	552.90	ug/L		100
31) Bromochloromethane	3.778	128	64607	64.77	ug/L	#	73
32) Tetrahydrofuran	3.788	72	26405	56.37	ug/L	#	22
33) Chloroform	3.836	83	208667	53.59	ug/L		99
34) Cyclohexane	3.933	56	172782	50.85	ug/L		92
35) 1,1,1-Trichloroethane	3.954	97	163505	56.27	ug/L		96
36) Carbon tetrachloride	4.061	117	152119	61.15	ug/L		100
37) Methacrylonitrile	3.826	41	894052	575.83	ug/L	#	17
38) Methylcyclohexane	4.992	83	167394	54.18	ug/L		91
39) Isobutyl Alcohol	4.259	43	120309	888.50	ug/L		95
42) 2-Butanone	3.612	43	130335	98.68	ug/L		94
43) 1,1-Dichloropropene	4.093	75	139166	50.70	ug/L		99
44) Vinyl Acetate	3.136	43	128280	41.54	ug/L		98
45) Benzene	4.280	78	410316	47.88	ug/L		100
46) 1,2-Dichloroethane	4.371	62	135213	50.33	ug/L	#	83
47) Trichloroethene	4.880	95	105487	47.93	ug/L	#	77
48) 1,2-Dichloropropane	5.158	63	112059	51.03	ug/L		96
49) Methyl methacrylate	5.259	69	75870	47.71	ug/L		99
50) Dibromomethane	5.276	93	67990	50.34	ug/L		99
51) Bromodichloromethane	5.431	83	139870	48.79	ug/L	#	99
52) 2-Chloroethylvinyl ether	5.778	63	304397	348.17	ug/L		95
53) Cis-1,3-dichloropropene	5.912	75	210664	60.98	ug/L		100
55) Toluene	6.217	92	353447	62.92	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	191744	61.26	ug/L		97
57) Ethyl methacrylate	6.618	69	176323	62.74	ug/L		99
58) 1,1,2-Trichloroethane	6.768	83	105310	62.48	ug/L		89
60) 4-Methyl-2-pentanone	6.094	43	275442	97.57	ug/L		97
61) 2-Hexanone	7.062	43	194992	95.69	ug/L		99
62) Tetrachloroethene	6.795	166	163136	58.46	ug/L		100
63) 1,3-Dichloropropane	6.971	76	207509	51.53	ug/L		86
64) Dibromochloromethane	7.185	129	152524	52.31	ug/L		99
65) 1,2-Dibromoethane	7.319	107	123782	49.75	ug/L		97
66) 1-Chlorohexane	7.785	91	192620	46.02	ug/L		95
67) Chlorobenzene	7.806	112	432591	52.71	ug/L		91
68) 1,1,1,2-Tetrachloroethane	7.908	131	166154	56.52	ug/L		97
69) Ethylbenzene	7.897	91	692396	49.28	ug/L		98
70) m,p-Xylene	8.020	106	588765	106.68	ug/L		87
71) o-Xylene	8.394	106	283313	50.66	ug/L		90
72) Xylene (Total)	8.020	106	872755m	153.94	ug/L		
73) Styrene	8.421	104	474227	51.03	ug/L		92
74) Bromoform	8.598	173	107908	59.68	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 18:57:45 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

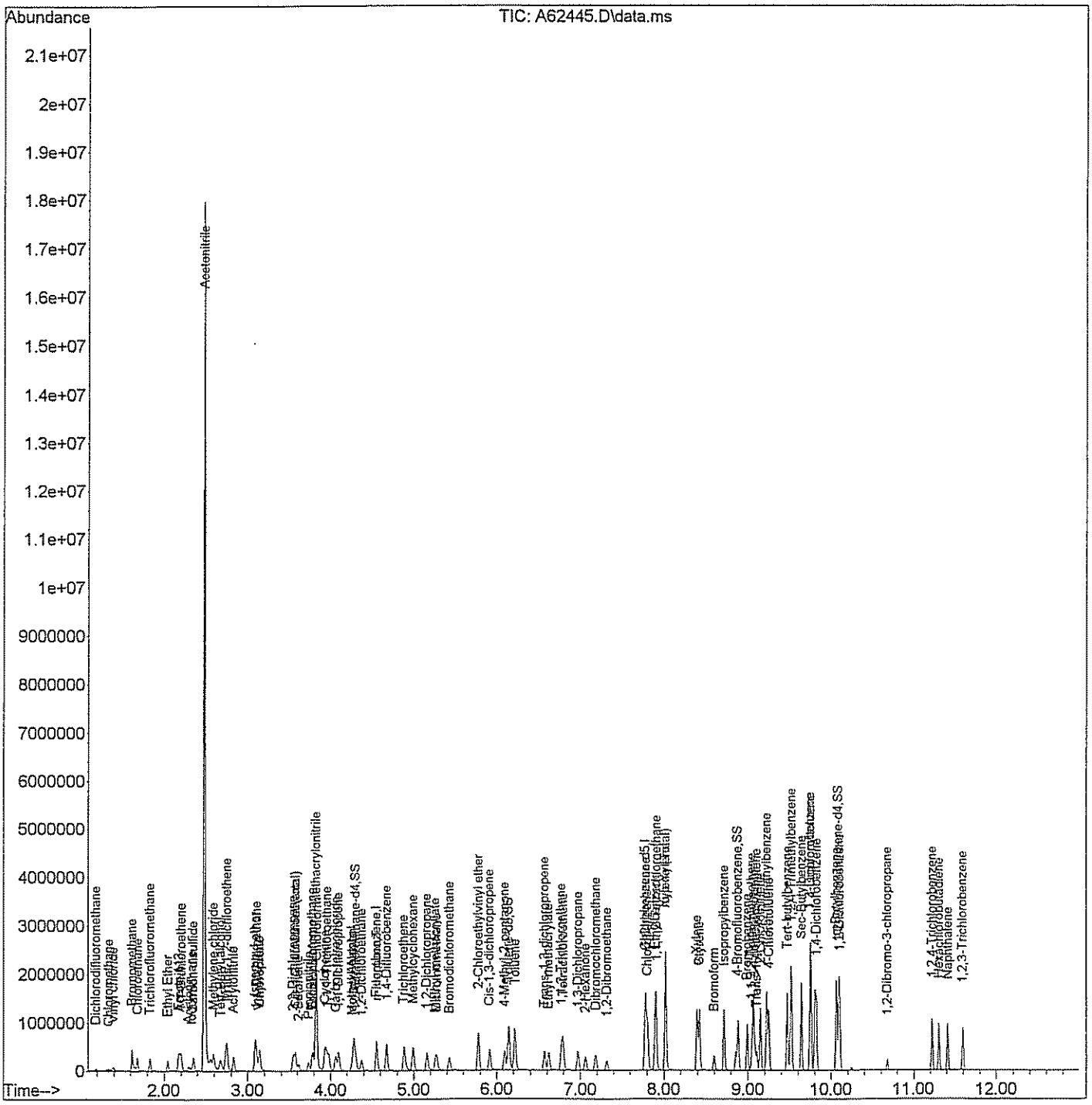
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	627806	52.79 ug/L	100
77) Bromobenzene	8.994	156	193882	59.55 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	168211	52.61 ug/L	96
79) 1,2,3-Trichloropropane	9.085	110	52774	55.56 ug/L	94
80) n-Propylbenzene	9.068	91	846738	51.44 ug/L	96
81) Trans-1,4-dichloro-2-b...	9.106	53	51624	65.12 ug/L #	1
82) 2-Chlorotoluene	9.149	126	193599	55.46 ug/L	88
83) 4-Chlorotoluene	9.250	126	202968	56.02 ug/L	77
84) 1,3,5-Trimethylbenzene	9.224	105	626386	53.61 ug/L	93
85) Tert-butylbenzene	9.470	119	569225	56.07 ug/L	94
87) 1,2,4-Trimethylbenzene	9.518	105	648230	53.41 ug/L	91
88) Sec-Butylbenzene	9.641	105	848218	54.52 ug/L	94
89) 1,3-Dichlorobenzene	9.748	146	410893	60.14 ug/L	98
90) 4-Isopropyltoluene	9.753	119	779531	58.92 ug/L	94
91) 1,4-Dichlorobenzene	9.823	146	408624	59.61 ug/L	97
93) 1,2-Dichlorobenzene	10.101	146	377927	57.92 ug/L	97
94) n-Butylbenzene	10.058	91	671831	51.45 ug/L #	88
95) 1,2-Dibromo-3-chloropr...	10.679	75	31172	56.93 ug/L	82
96) 1,2,4-Trichlorobenzene	11.224	180	229073	57.85 ug/L	99
97) Hexachlorobutadiene	11.305	225	108994	59.11 ug/L	96
98) Naphthalene	11.412	128	565034	59.88 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	198324	59.83 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

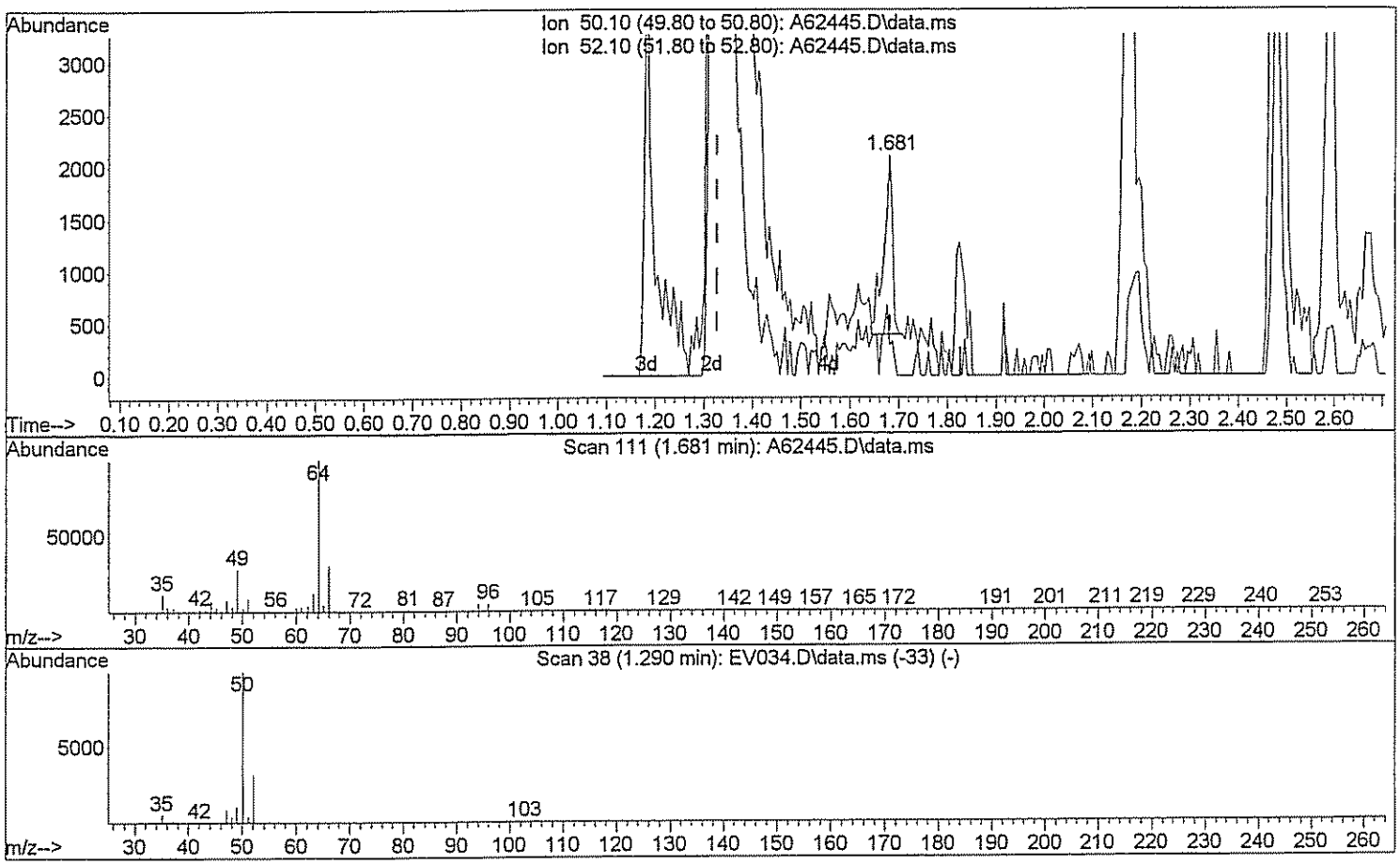
Quant Time: Mar 24 18:57:45 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 18:37:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(3) Chloromethane

1.681min (+0.353) 1.33 ug/L

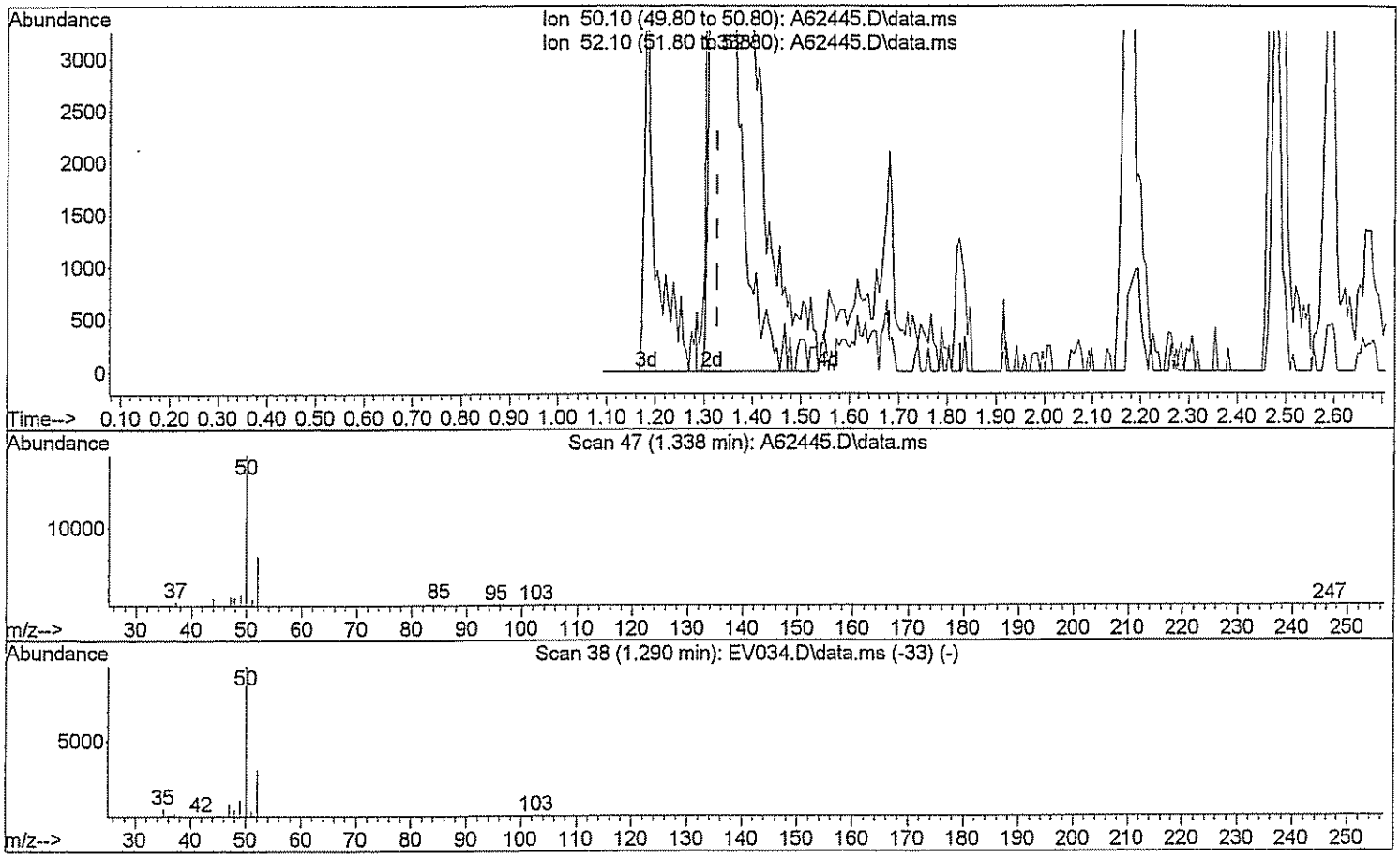
response 2124

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	33.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 18:37:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(3) Chloromethane

1.338min (+0.011) 48.42 ug/L m

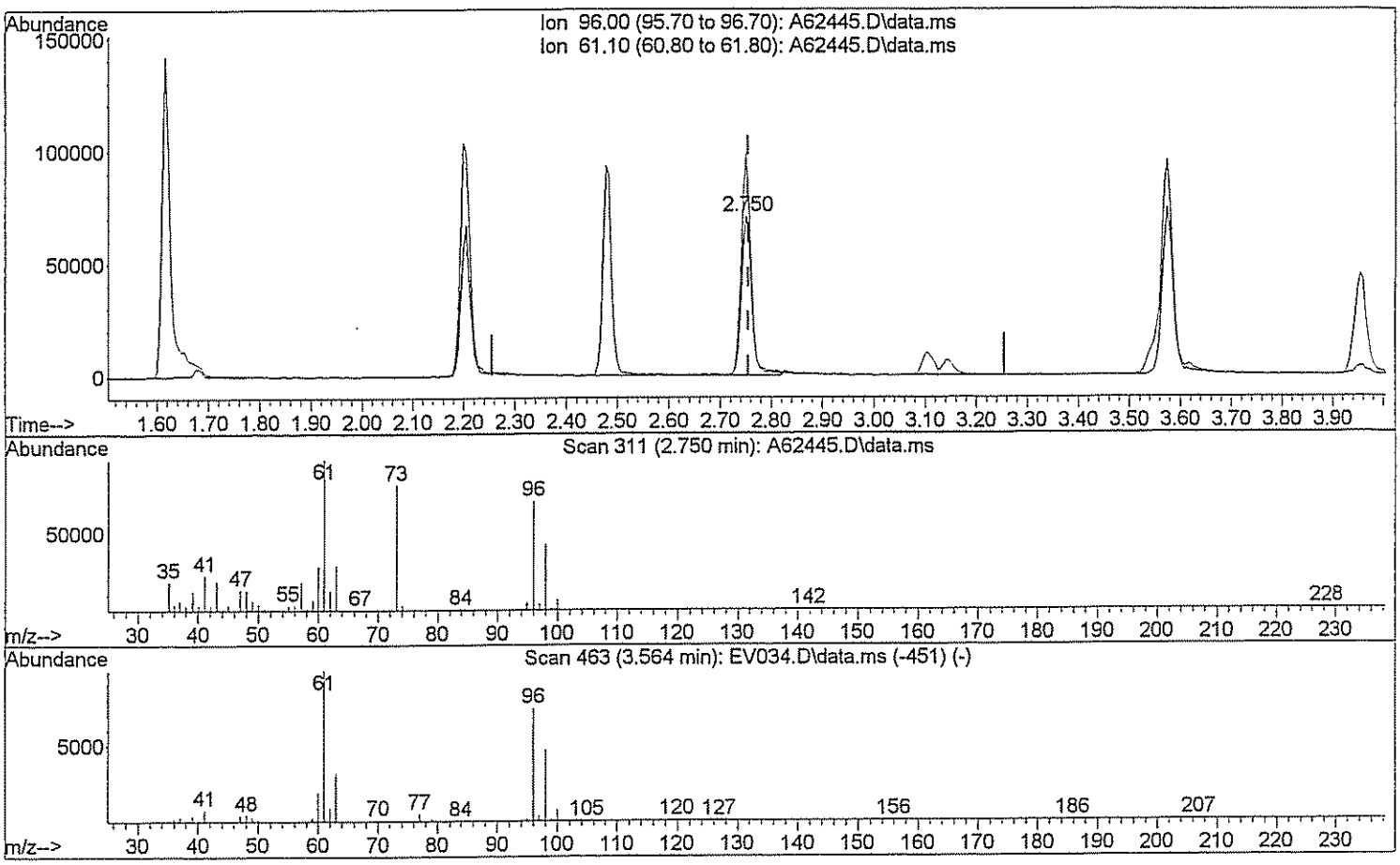
response 77086

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	0.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 09:24:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 40.72 ug/L

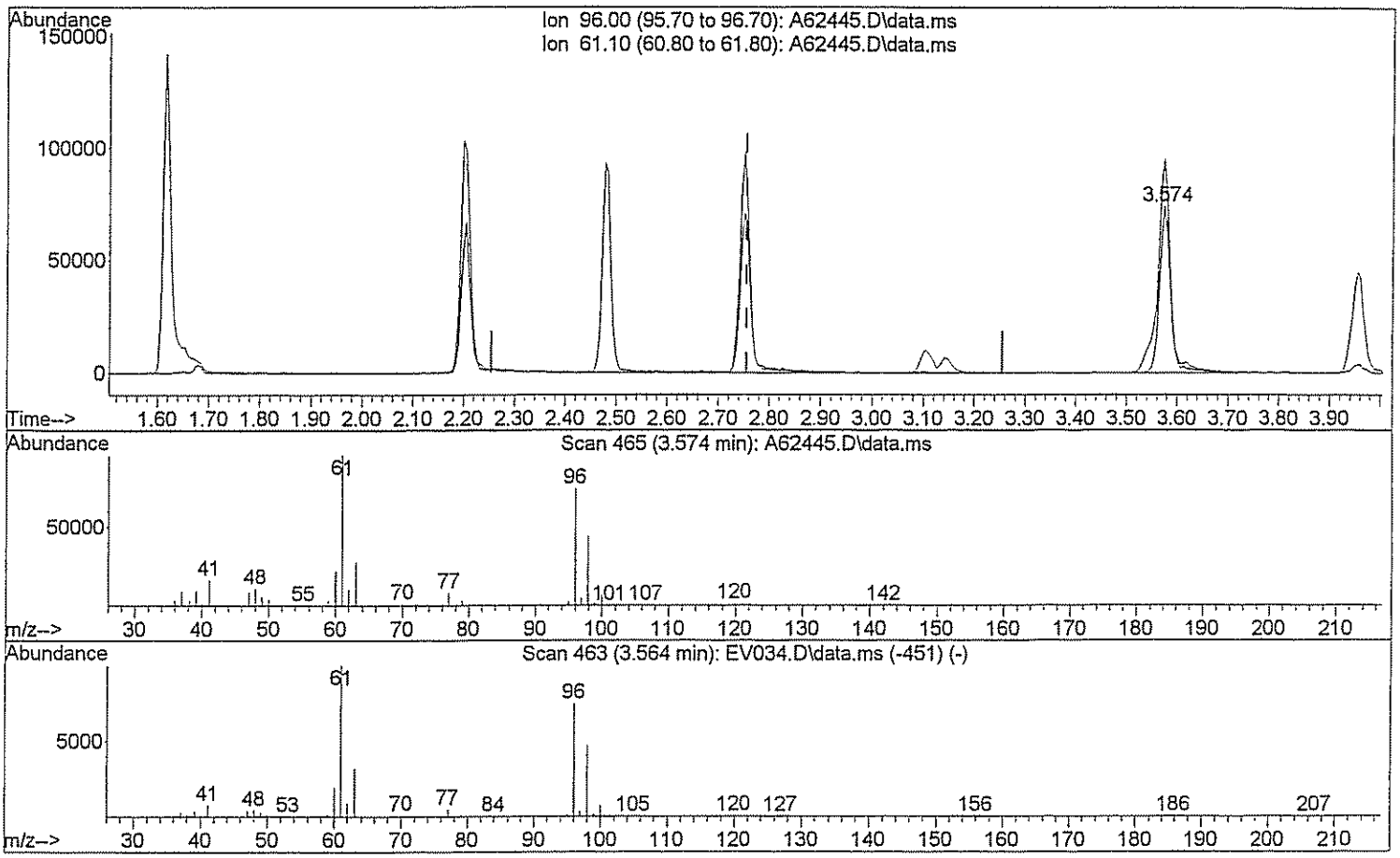
response 99660

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	133.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 09:24:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (+0.819) 89.47 ug/L m 3/24/09

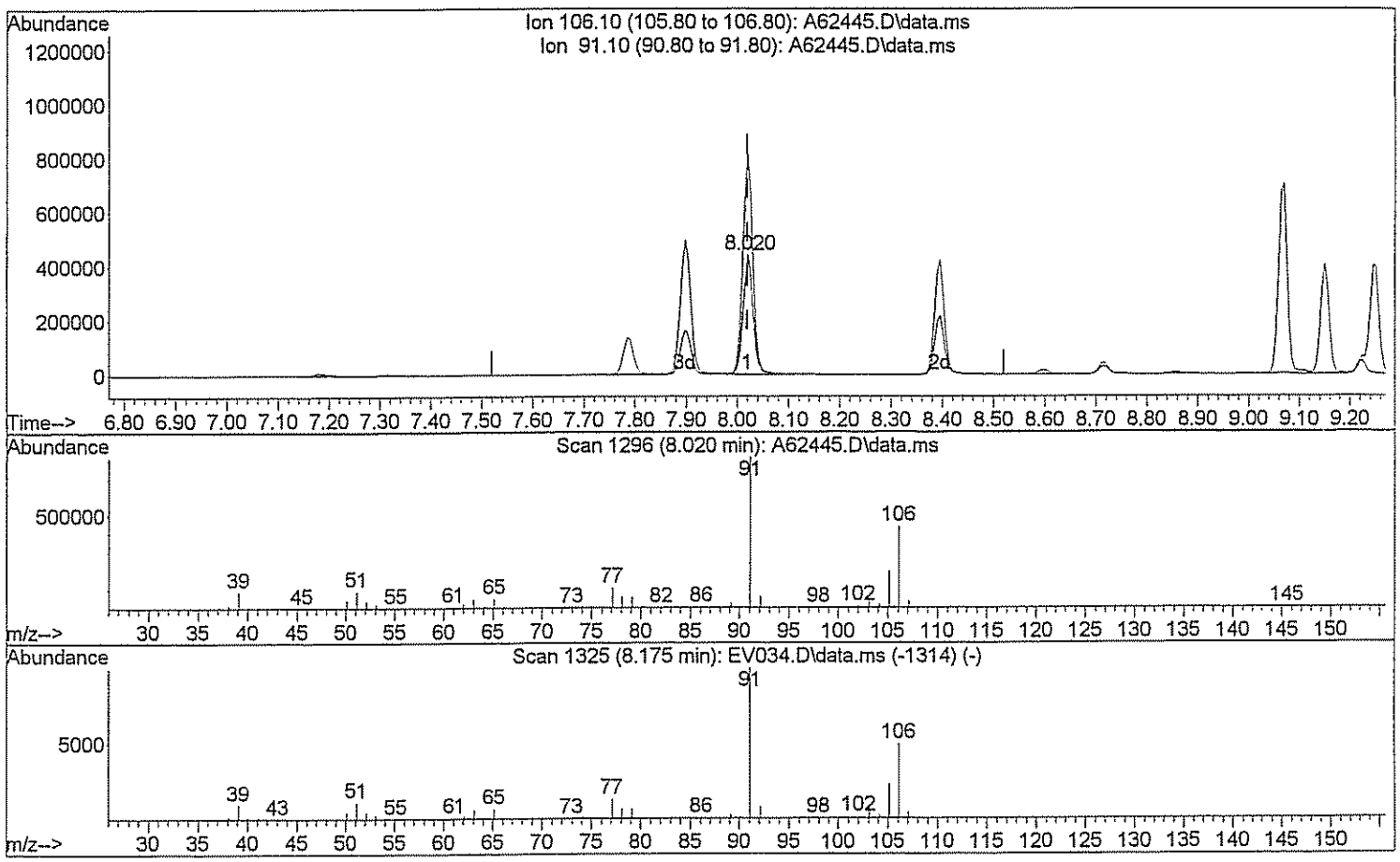
response 218980

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.96#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 09:24:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 103.85 ug/L

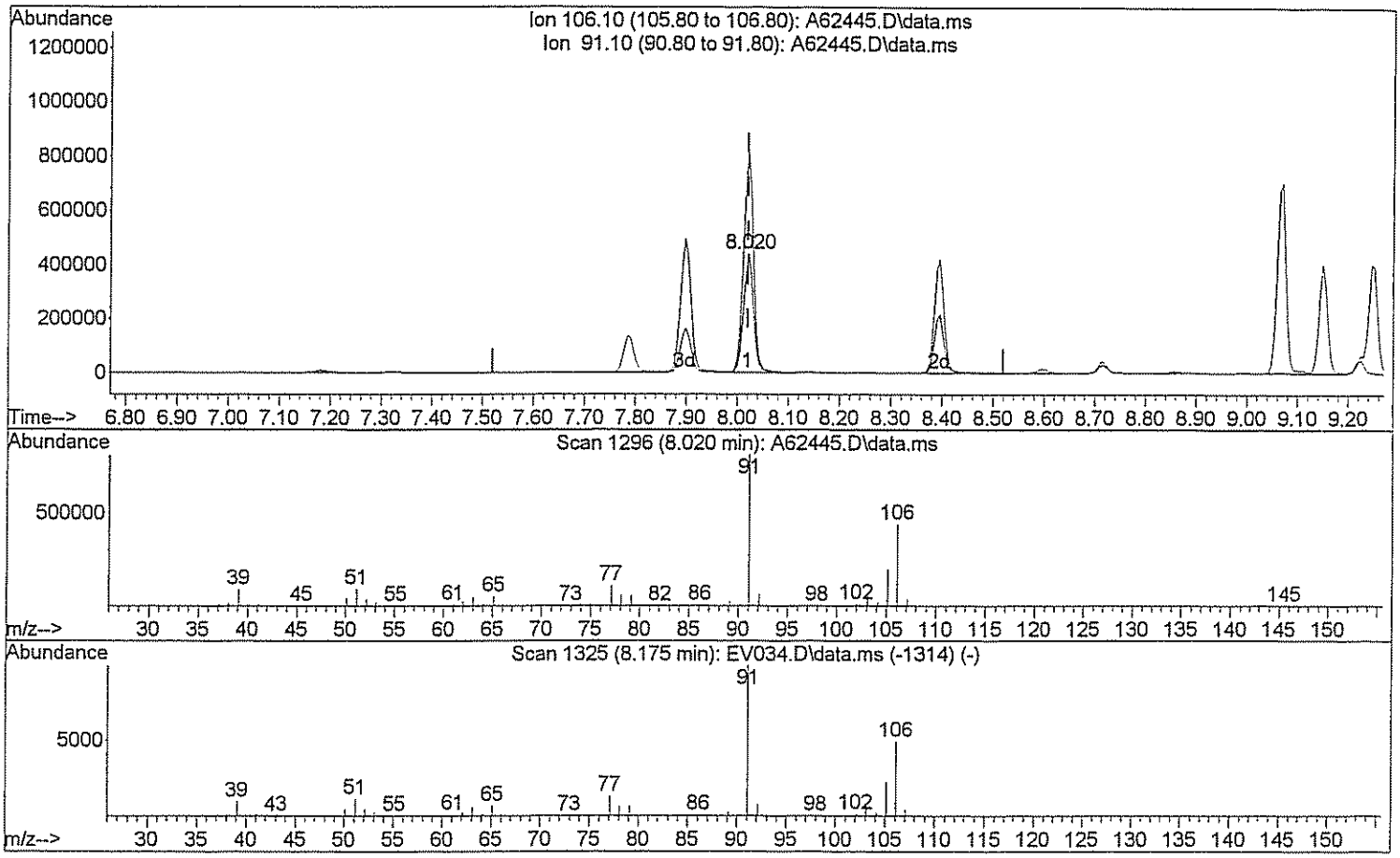
response 588765

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032309C1\
Data File : A62445.D
Acq On : 23 Mar 2009 16:20
Operator : SM
Sample : BKSD
Misc : BKSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 09:24:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62445.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 153.94 ug/L m Dm 3/24/09

response 872755

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.87#
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: [signature] Date: 3/17/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_031009
SEQUENCE FILE:	3-10-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62205	BFB	3-10-09	07:35	1X	Std	5mL	N/A	BFB	OK
	A 7	CAL01	↓	↓	↓	↓	↓	↓	8260	OK
	A 9	CAL05								OK
	A 11	CAL20								OK
	A 13	CAL50								OK
	A 15	CAL100								OK
	A 17	Rinse								cleaning
	A 19	CAL200								OK
	A 21	BLK								OK
	A 23	BKS				↓				OK
	A 25	903020-001				H2O				OK
	A 27	903020-004								OK
	A 29	903020-005		↓						OK
	A 31	903020-006		19:08						OK
	A ↓ 33	903020-007	↓	Outofture	↓	↓	↓	↓	↓	Rerun
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

SM 3/17/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11511	50	3-10-09	2.5mL
Mix1	11512	100	↓	
Mix2	11513	↓		
Mix3	11514	500		
Gasmix	11515	100		
RefMix	11516	↓		

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NK Date: 3-12-09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260C2-031009
SEQUENCE FILE:	310-09C2
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62206	BFB	3-10-09	07:55	1X	Std	5mL	N/A	BFB	OK
	A 8	CAL01							8260	OK
	A 10	CAL05								OK
	A 12	CAL20								OK
	A 14	CAL50								OK
	A 16	CAL100								OK
	A 18	Rinse								Cleaning
	A 20	CAL200								OK
	A 22	BLK								OK
	A 24	BKS								OK
	A 26	902161-001			100X	H_2O	50uL	L2		OK
	A 28	902161-003			100X	↓	50uL	↓		OK
	A 30	MRL		↓	1X	Std	5mL	N/A		NOT USED
	A 32	902193-003		19:29	↓	H_2O	↓	L2		↓
	A ↓ 34	MRL	↓	Outofline	↓	Std	↓	N/A	↓	
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

3/12/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11511	50	3-10-09	2.5uL
mix1	11512	100		
mix2	11613	↓		
mix3	11514	500		
Gasmix	11515	100		
Refmix	11516	↓		

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: [signature] Date: 3-17-09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A82002_031009
SEQUENCE FILE:	323091C2
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A C62434	BFB	323-09	11:49	1X	Std	5mL	N/A	BFB	Ok
	A 36	CAL050							8260	
	A 38	BLK								
	40	BKS				↓		↓		
	A 42	903057-005	↓	↓	↓	H2O	↓	L2	↓	↓
	A 44	903080-008								
	A 46	BKSD								
	A 48	903080-009								
	A 50	903080-010								
	A 52	903080-011								
	A 54	903080-012								
	A 56	CAL005								didn't work
	A 58	902069-001								
	A 60	902069-002								10XDL
	A 62	902069-004								
	A 64	902069-006		↓						10XDL
	A ↓ 66	902069-008	↓	23:28	↓	↓	↓	↓	↓	↓
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

SM 3/24/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11540	50	3-17-09	2.5ul
Mix1	11541	100		
Mix2	11542	↓		
Mix3	11543	500		
GasMix	11544	100		
RefMix	11545	↓	↓	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: ✓ Date: 3/24/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_031009
SEQUENCE FILE:	3-23-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A62433	BFB	3-23-09	11:28	1X	Std	5mL	N/A	BFB	OK
	A 35	CCV50							8260	
	A 37	BLK								
	39	BLKS								
	A 41	Rinse								
	A 43	CAL005								
	A 45	BLKSD								
	A 47	903062-001				H2O		12		OK
	A 49	903062-002								OK
	A 51	903062-003								OK
	A 53	903062-004								OK
	A 55	903062-005								high SS
	A 57	903062-006								OK
	A 59	903062-007								high SS
	A 61	903069-003								OK
	A 63	903069-005		↓		↓		↓		OK; 10X
	A ↓ 65	CAL005	↓	23:08	↓	Std	↓	N/A	↓	OK
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

SMC 3/24/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11540	50	3-17-09	2.5mL
Mix1	11541	100		
Mix2	11542	↓		
Mix3	11543	500		
GasMix	11544	100		
RefMix	11545	↓	↓	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NK Date: 3/24/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_031009
SEQUENCE FILE:	3-24-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62467	BFB	3-24-09	07:34	1X	Std	5mL	N/A	BFB	OK
	A 69	CCV50							8260	NOT USED
	A 71	CCV50								OK
	73	BKS								OK
	A 75	BLK				↓		↓		OK
	A 77	903080-004MS				H2O		L2		OK
	A 79	903080-004MSD								OK
	A 81	Rinse								Cleaning
	A 83	CAL05								didn't work
	A 85	903069-009								OK
	A 87	903069-010								OK
	A 89	903069-011								OK
	A 91	903069-012								OK
	A 93	903071-005		↓						OK
	A 95	903071-006		18:58						OK
	A 97	903069-002MS		autofuse						Reanalyze
	A 99	903069-002MSD	↓	↓	↓	↓	↓	↓	↓	↓
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

3-25-09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11540	50	3-17-09	2.5mL
Mix1	11541	100		
Mix2	11542	↓		
Mix3	11543	500		
GasMix	11544	100		
BFBMix	11545	↓	↓	

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: M Date: 7/22/09

INSTRUMENT ID:	**HP 5975 #A**
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_CB1009
SEQUENCE FILE:	325-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62501	BFB	325-09	08:34	1X	Std	5mL	N/A	BFB	OK
	A 3	CCV50							8260	NOT USED
	A 5	CCV50								OK
	7	BLK								OK
	A 9	BLK								OK
	A 11	9031168-001				H2O				OK
	A 13	9031168-002								OK
	A 15	9031169-001			1X		5mL			OK
	A 17	9030691-002			10X		0.5mL			OK
	A 19	9030691-005			10X					OK
	A 21	9030691-006			10X					OK
	A 23	9030691-002MS			10X					OK
	A 25	9030691-002MSD			10X					OK
	A 27	9030691-007MS			1X		5mL			OK
	A 29	9030691-007MSD			1X					OK
	A 31	Rinse		19:59	1X					OK, cleaning
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

SM 3/26/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 ISTDS	11552	50	324-09	2.5 µL
Mix 1	11553	100		
Mix 2	11554	↓		
Mix 3	115565	500		
Gas Mix	11556	100		
Ref Mix	11557	↓		

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary (where applicable)

GPL Laboratories, LLLP

Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903069

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-16GW40-0309	11.8	12.1	2.5	15%
Nitrite-N	E300.0	OU1-16GW40-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-16GW40-0309	0.32	0.32	0	15%
Chloride	E300.0	OU1-16GW02-0309	29.8	29.8	0	15%
Nitrite-N	E300.0	OU1-16GW02-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-16GW02-0309	0.11	0.12	8.7	15%

RPD - 0 out of 3 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-16GW40-0309	11.8	22.2	10.0	104	90 - 110%
Nitrite-N	E300.0	OU1-16GW40-0309	0	1.30	1.00	130*	90 - 110%
Nitrate-N	E300.0	OU1-16GW40-0309	0.32	1.24	1.00	92.0	90 - 110%
Nitrite-N	E300.0	OU1-16GW02-0309	0	1.15	1.00	115	90 - 110%
Nitrate-N	E300.0	OU1-16GW02-0309	0.11	0.83	1.00	72*	90 - 110%
Chloride	E300.0	OU1-16GW02-0309	29.8	33.6	10.0	38*	90 - 110%
Nitrite-N	E300.0	OU1-16GW02-0309	0	1.34	1.00	134*	90 - 110%
Nitrate-N	E300.0	OU1-16GW02-0309	0.11	1.05	1.00	94.0	90 - 110%

Recovery - 4 out of 8 outside control limits

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #44805/#44035

LCSL (3/11/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	158	100	85 - 115%
Nitrite-N	732	600	82.0*	85 - 115%
Nitrate-N	187	173	92.5	85 - 115%

Recovery - 1 out of 3 outside Control Limits

LCSH (3/11/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	155	98.1	85 - 115%
Nitrate-N	187	182	97.3	85 - 115%

Recovery - 0 out of 2 outside Control Limits

LCSL (3/28/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	158	100	85 - 115%
Nitrite-N	732	739	101	85 - 115%
Nitrate-N	187	174	93.0	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/28/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	149	94.3	85 - 115%
Nitrate-N	187	177	94.7	85 - 115%

Recovery - 0 out of 2 outside Control Limits

B. Sample Data

GPL Laboratories, LLLP

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-081-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.2	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

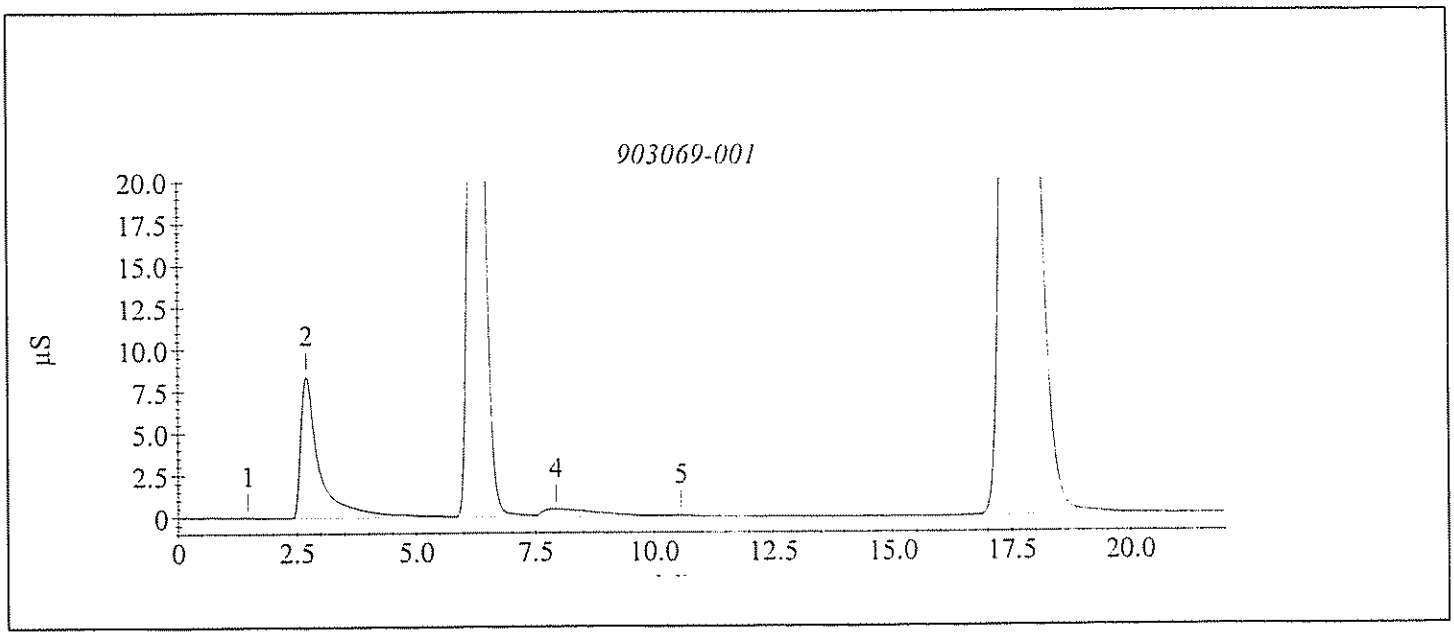
Sample Analysis Report

Sample Name : 903069-001
Data File Name : I:\ICDATA\IC500\090311\090311__063.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 2:50:12 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	2.70	1.848	2346793	83926
3	Chloride	6.30	10.508 ✓	8986695	362901
	Nitrite-N				
5	Bromide	10.57	0.070 ✓	19198	788
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.60	54.625	33570343	842595



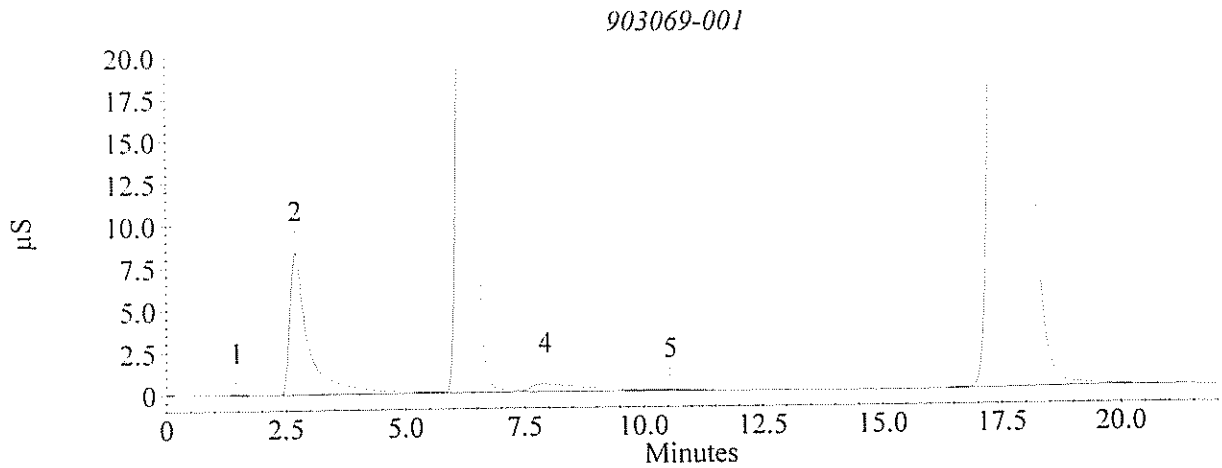
Sample Analysis Report

Sample Name : 903069-001
Data File Name : I:\ICDATA\IC500\090311\090311__063.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 2:50:12 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	2.70	1.948	2346793	83926
3	Chloride	6.30	8.219	8986695	362901
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.60	40.608	33570343	842595



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-096-1/3
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	12	
14797-55-8	Nitrate	0.32	
7727-37-9	Nitrite	0.10	U

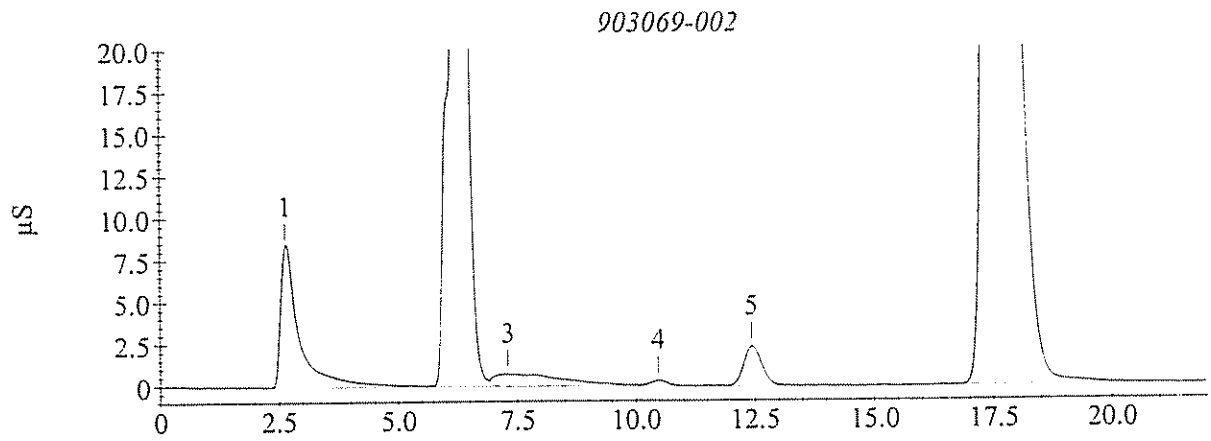
Sample Analysis Report

Sample Name : 903069-002
Data File Name : I:\ICDATA\IC500\090311\090311__064.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/12/09 3:15:23 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.63	1.817	2306749	83119
2	Chloride	6.33	16.075	13755603	633745
	Nitrite-N				
4	Bromide	10.47	0.236	79786	3144
5	Nitrate-N	12.43	0.318	619866	23446
	Phosphate-P				
6	Sulfate	17.60	61.579	37846354	977958



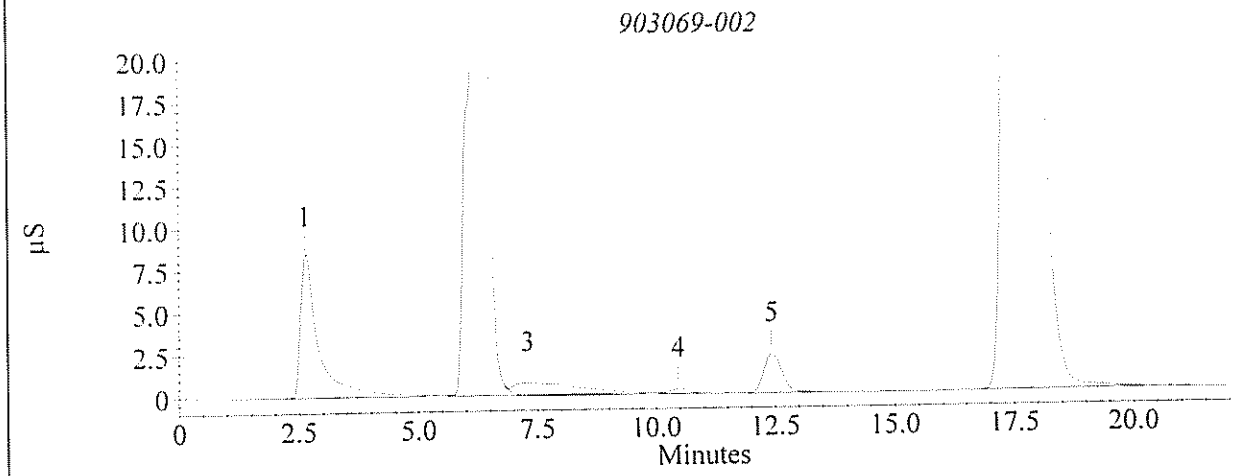
Sample Analysis Report

Sample Name : 903069-002
Data File Name : I:\ICDATA\IC500\090311\090311__064.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 3:15:23 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.63	1.923	2306749	83119
2	Chloride	6.33	11.807	13755603	633745
	Nitrite-N				
4	Bromide	10.47	2.088	79786	3144
5	Nitrate-N	12.43	1.367	619866	23446
	Phosphate-P				
6	Sulfate	17.60	45.561	37846354	977958



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-075-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	13	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

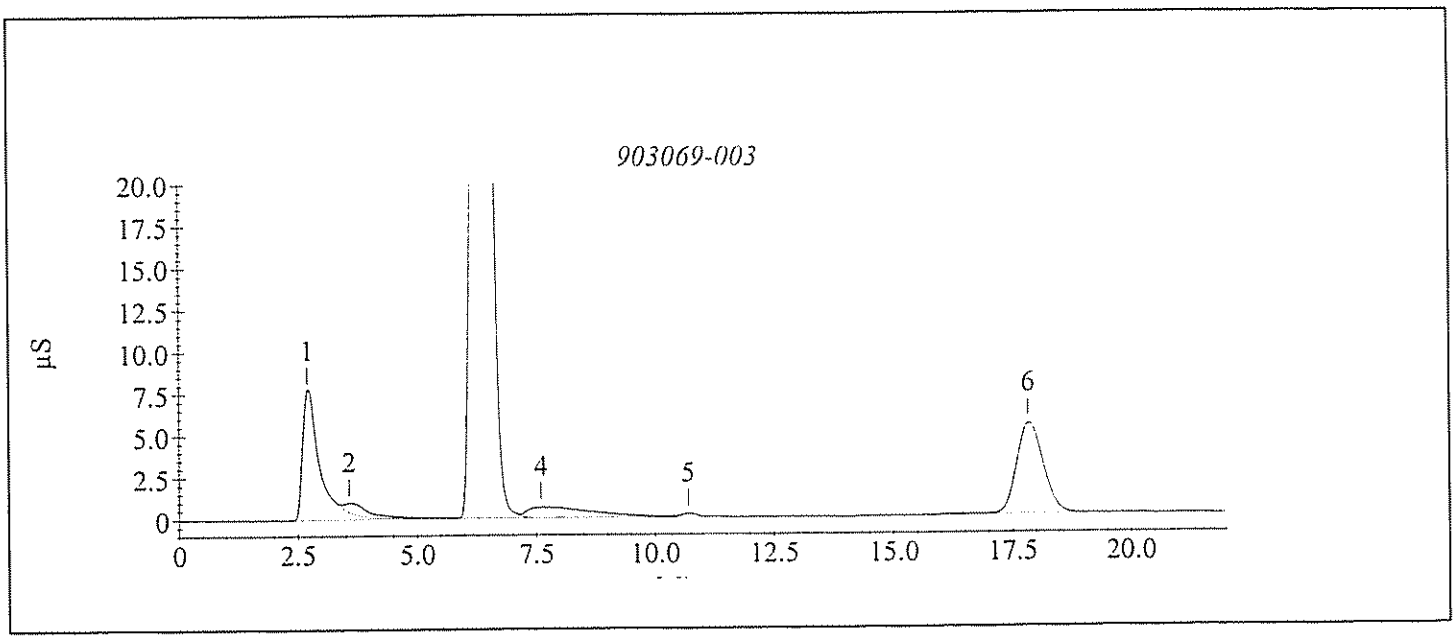
Sample Analysis Report

Sample Name : 903069-003
Data File Name : I:\ICDATA\IC500\090311\090311__067.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 4:30:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.57	0.226	241591	5405
3	Chloride	6.47	17.332	14832651	648551
	Nitrite-N				
5	Bromide	10.70	0.155	50121	2068
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.83	3.457	2111182	53910



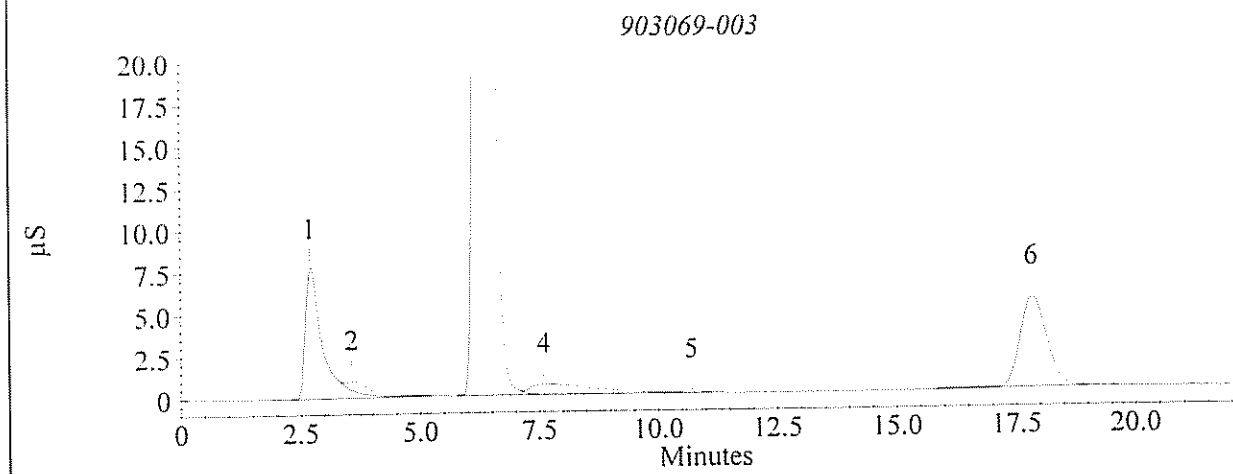
Sample Analysis Report

Sample Name : 903069-003
Data File Name : I:\ICDATA\IC500\090311\090311__067.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 4:30:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.57	0.646	241591	5405
3	Chloride	6.47	12.617 ✓	14832651	648551
5	Nitrite-N Bromide Nitrate-N Phosphate-P	10.70	2.035	50121	2068
6	Sulfate	17.83	4.173	2111182	53910



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-076-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	34	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

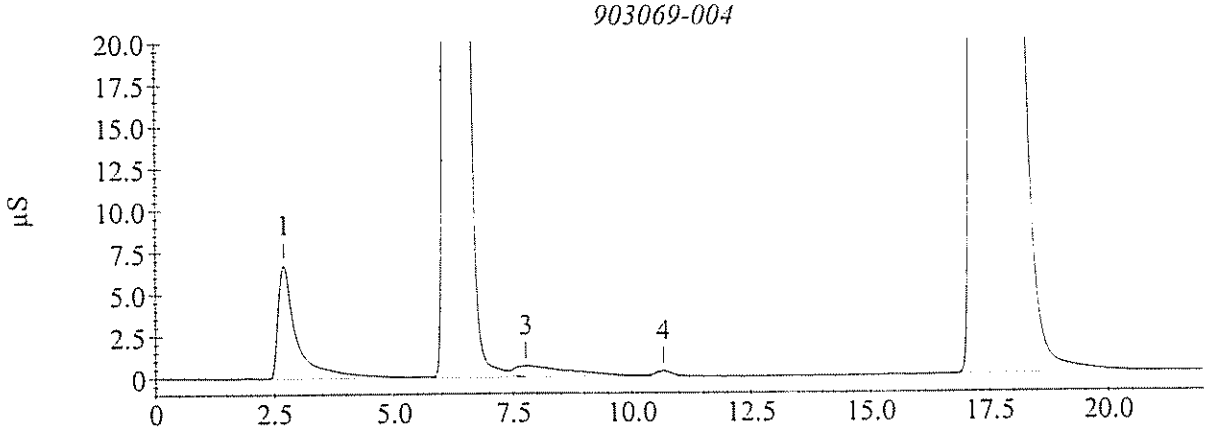
Sample Analysis Report

Sample Name : 903069-004
Data File Name : I:\ICDATA\IC500\090311\090311__068.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 4:56:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.459	1841799	67031
2	Chloride	6.40	50.618	43350230	1725926
	Nitrite-N				
4	Bromide	10.67	0.225	75971	3158
	Nitrate-N				
	Phosphate-P				
5	Sulfate	17.40	170.839	105022475	2543358



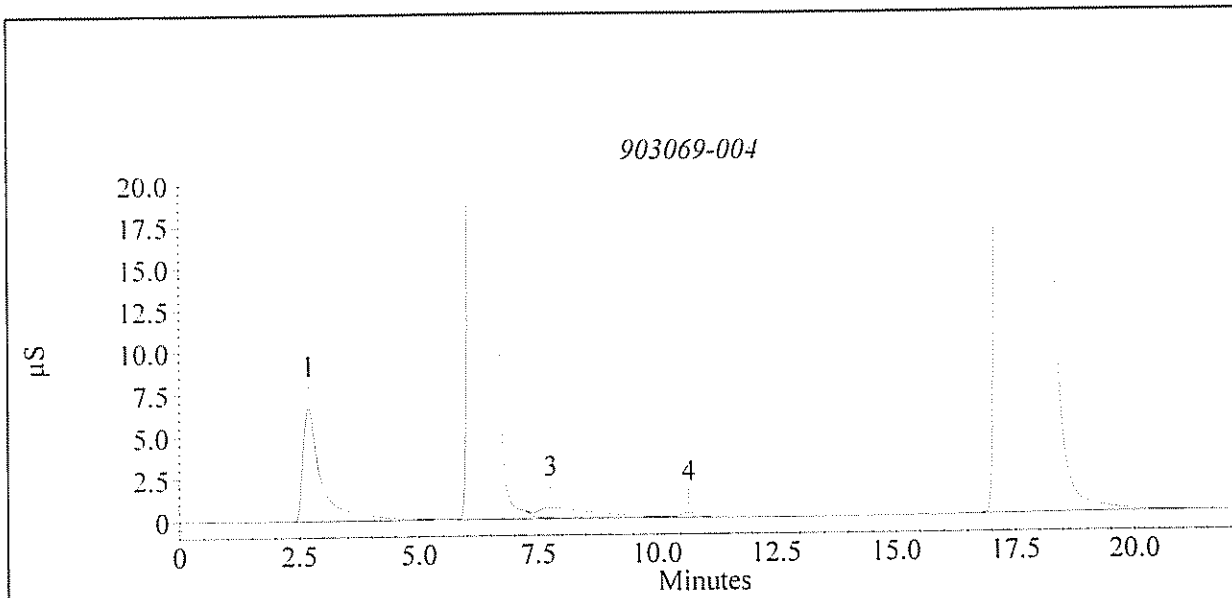
Sample Analysis Report

Sample Name : 903069-004
Data File Name : I:\ICDATA\IC500\090311\090311__068.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 4:56:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.633	1841799	67031
2	Chloride	6.40	34.075	43350230	1725926
4	Nitrite-N Bromide	10.67	2.081	75971	3158
5	Nitrate-N Phosphate-P Sulfate	17.40	123.363	105022475	2543358



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-077-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	9.6	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

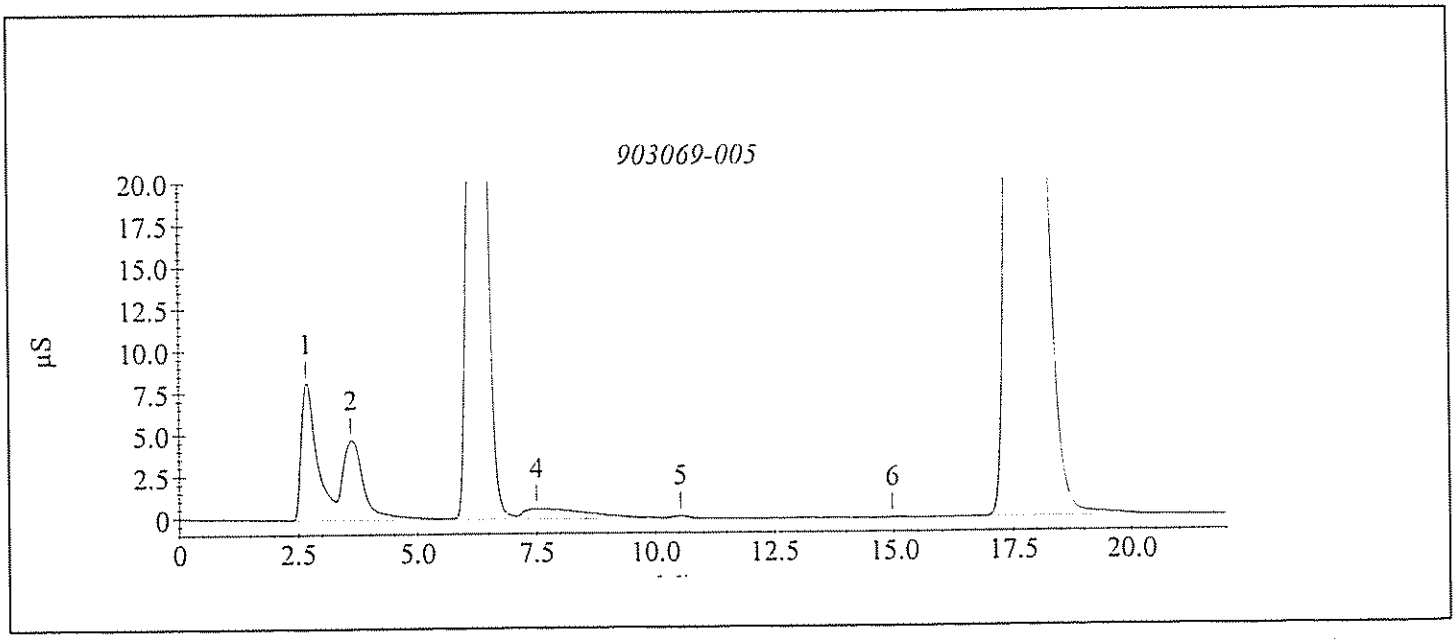
Sample Analysis Report

Sample Name : 903069-005
Data File Name : I:\ICDATA\IC500\090311\090311__069.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 5:21:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	1.173	1470390	46906
3	Chloride	6.37	12.608	10785684	451082
	Nitrite-N				
5	Bromide	10.53	0.123	38300	1470
	Nitrate-N				
	Phosphate-P				
7	Sulfate	17.67	69.117	42480971	1089063



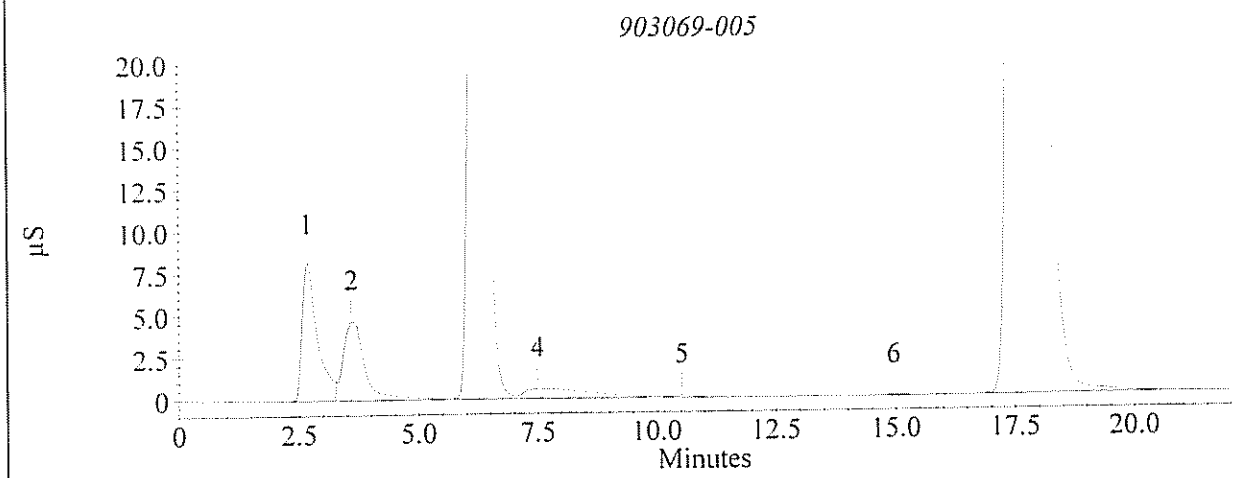
Sample Analysis Report

Sample Name : 903069-005
Data File Name : I:\ICDATA\IC500\090311\090311__069.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 5:21:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	1.402	1470390	46906
3	Chloride	6.37	9.572 ✓	10785684	451082
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
7	Sulfate	17.67	50.928	42480971	1089063



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-078-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	13	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

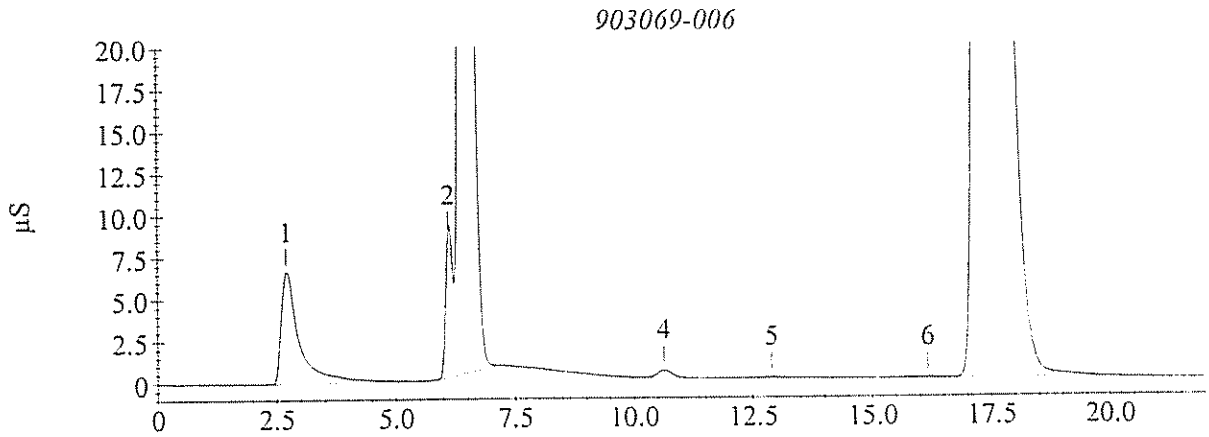
Sample Analysis Report

Sample Name : 903069-006
Data File Name : I:\ICDATA\IC500\090311\090311__070.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 5:46:18 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.403	1768836	65954
3	Chloride	6.50	17.769	15207206	892985
	Nitrite-N				
4	Bromide	10.63	0.275	94322	4350
5	Nitrate-N	12.90	0.071	10361	437
	Phosphate-P				
7	Sulfate	17.43	79.926	49126085	1359487



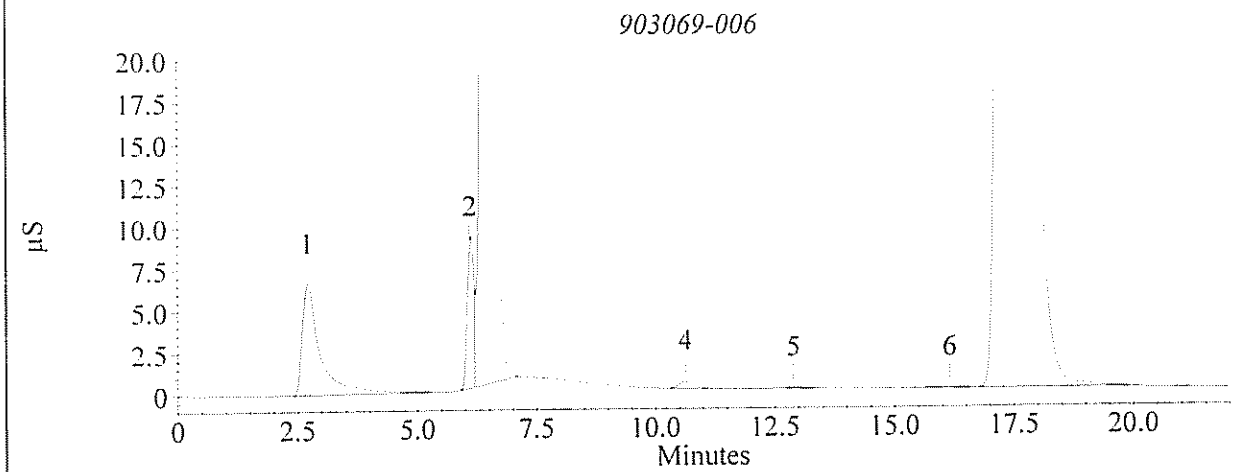
Sample Analysis Report

Sample Name : 903069-006
Data File Name : I:\ICDATA\IC500\090311\090311__070.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 5:46:18 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.587	1768836	65954
3	Chloride	6.50	12.899	15207206	892985
	Nitrite-N				
4	Bromide	10.63	2.114	94322	4350
5	Nitrate-N	12.90	1.189	10361	437
6	Phosphate-P	16.17	1.848	20238	470
7	Sulfate	17.43	58.625	49126085	1359487



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-099-1/3
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	30	
14797-55-8	Nitrate	0.11	
7727-37-9	Nitrite	0.10	U

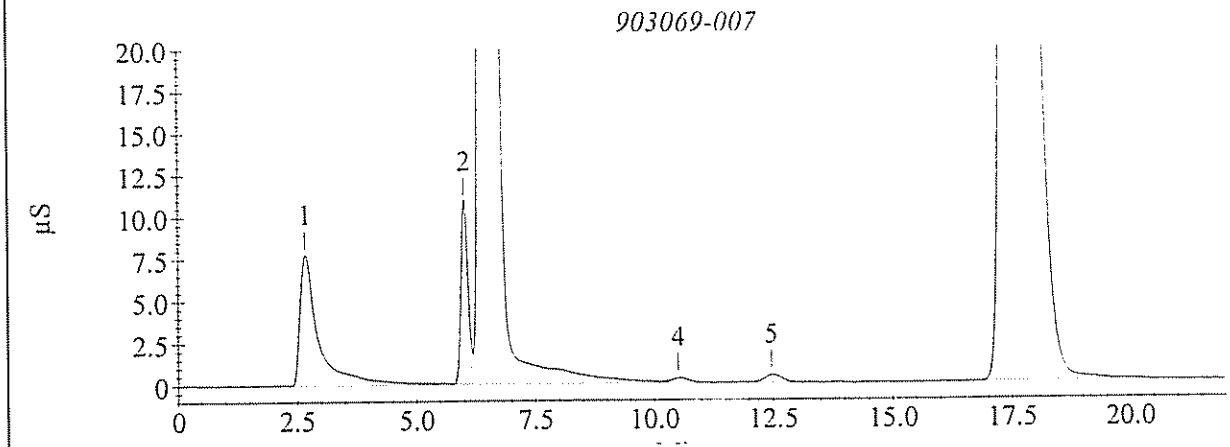
Sample Analysis Report

Sample Name : 903069-007
Data File Name : I:\ICDATA\IC500\090311\090311__074.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 7:26:55 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.690	2142205	76906
3	Chloride	6.57	44.677	38260202	2238877
	Nitrite-N				
4	Bromide	10.50	0.230	77486	2890
5	Nitrate-N	12.47	0.112	112290	4536
	Phosphate-P				
6	Sulfate	17.57	76.165	46814271	1286141



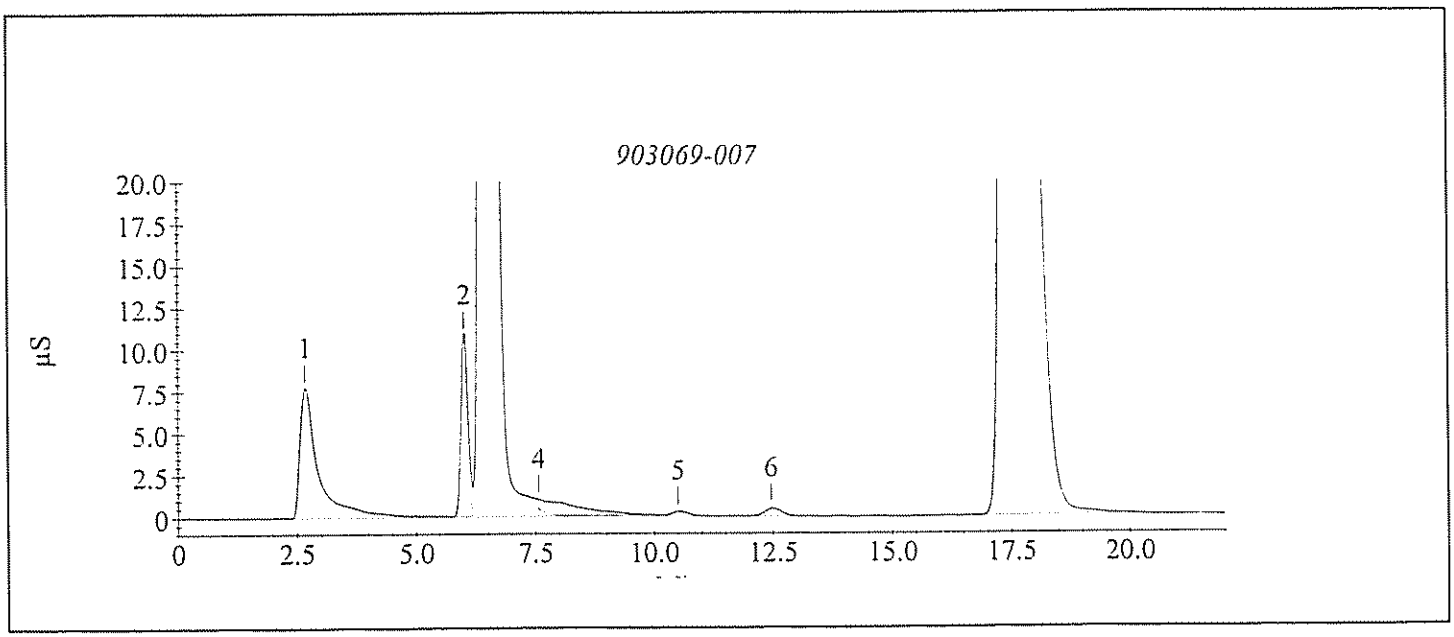
Sample Analysis Report

Sample Name : 903069-007
Data File Name : I:\ICDATA\IC500\090311\090311__074.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 7:26:55 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.805	2117617	76879
3	Chloride	6.57	29.758 ✓	37612203	2238515
	Nitrite-N				
5	Bromide	10.50	2.047	56836	2419
6	Nitrate-N	12.47	1.219	112290	4536
	Phosphate-P				
7	Sulfate	17.57	55.947	46814271	1286141



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-079-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	9.0	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

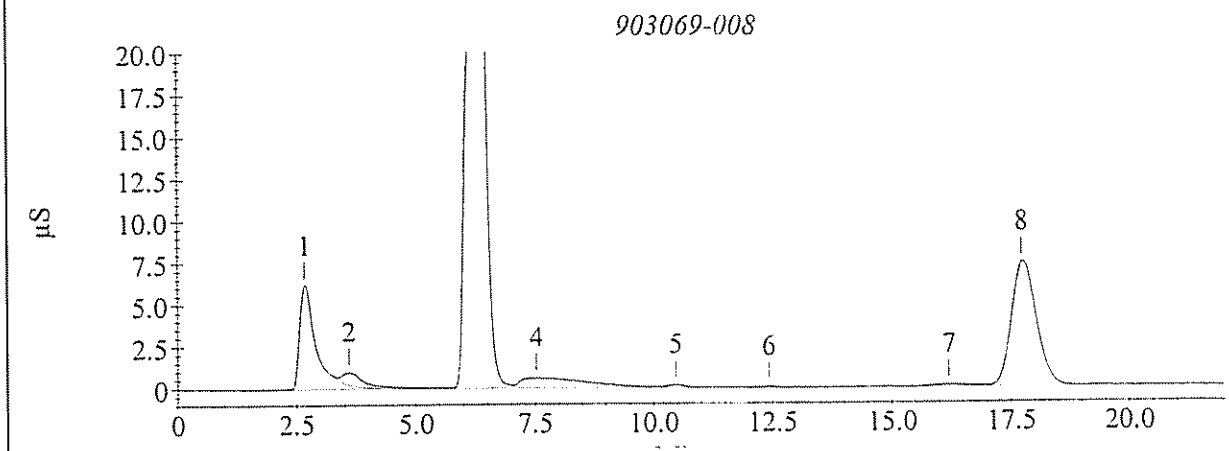
Sample Analysis Report

Sample Name : 903069-008
Data File Name : I:\ICDATA\IC500\090311\090311__077.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/12/09 8:42:24 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.234	251110	7156
3	Chloride	6.33	11.728	10031564	458599
	Nitrite-N				
5	Bromide	10.47	0.137	43529	1681
6	Nitrate-N	12.43	0.072	11647	459
7	Phosphate-P	16.20	0.115	59572	1138
8	Sulfate	17.73	4.416	2700359	73735



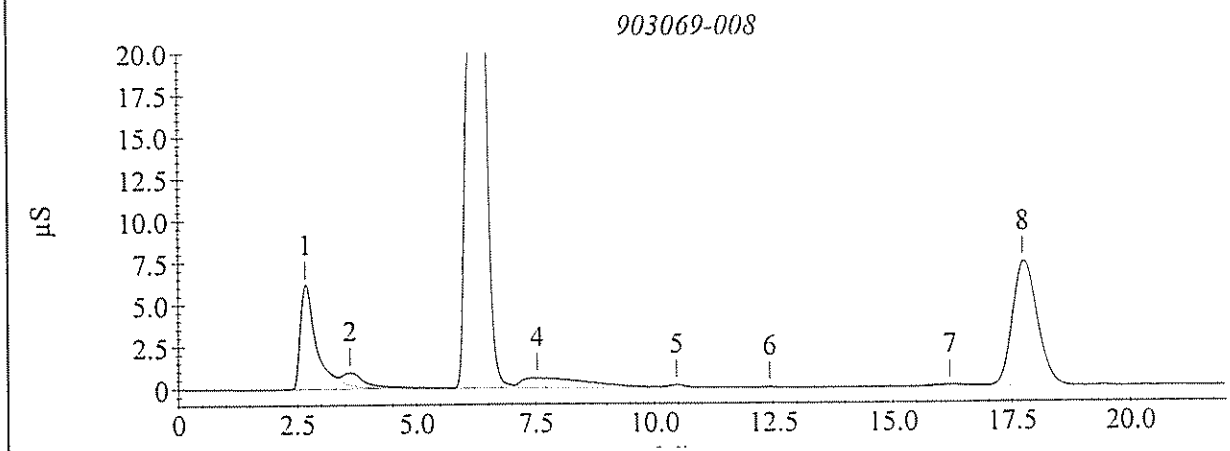
Sample Analysis Report

Sample Name : 903069-008
Data File Name : I:\ICDATA\IC500\090311\090311__077.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 8:42:24 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.652	251110	7156
3	Chloride	6.33	9.005	10031564	458599
	Nitrite-N				
	Bromide				
6	Nitrate-N	12.43	1.189	11647	459
7	Phosphate-P	16.20	1.880	59572	1138
8	Sulfate	17.73	4.855	2700359	73735



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-080-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	43	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

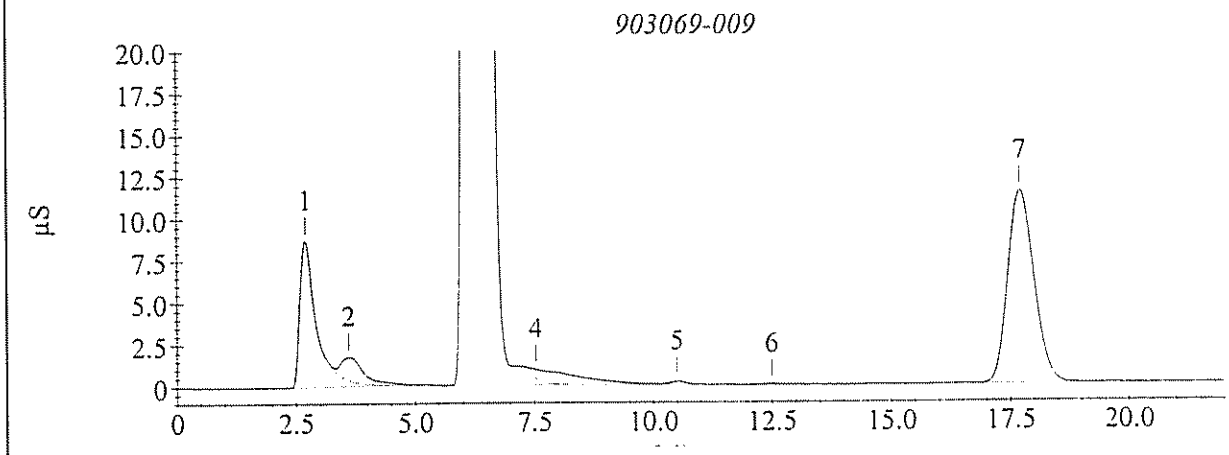
Sample Analysis Report

Sample Name : 903069-009
Data File Name : I:\ICDATA\IC500\090311\090311__078.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/12/09 9:07:35 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.410	479339	13797
3	Chloride	6.47	64.883	55570724	2275372
	Nitrite-N				
5	Bromide	10.50	0.122	38101	1655
6	Nitrate-N	12.50	0.071	10641	460
	Phosphate-P				
7	Sulfate	17.70	7.184	4402437	114143



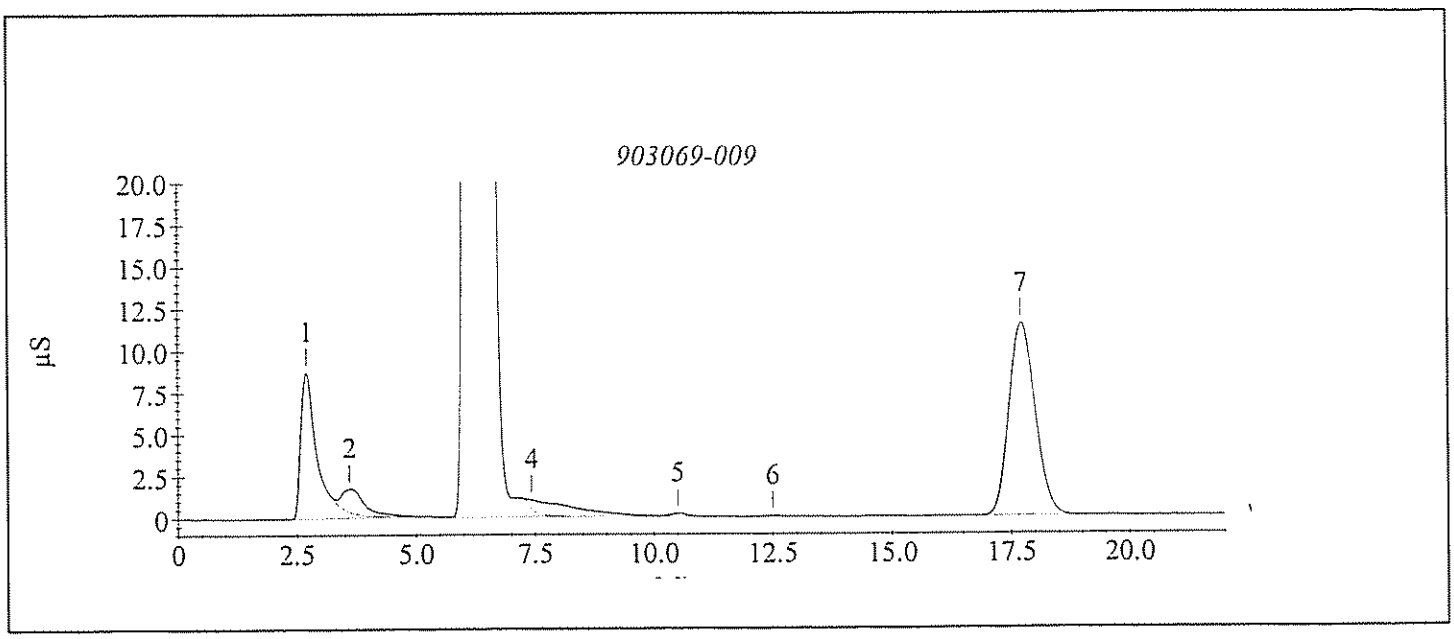
Sample Analysis Report

Sample Name : 903069-009
Data File Name : I:\ICDATA\IC500\090311\090311__078.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 9:07:35 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.792	479339	13797
3	Chloride	6.47	43.224	55509176	2275372
	Nitrite-N				
5	Bromide	10.50	2.013	38101	1655
	Nitrate-N				
	Phosphate-P				
7	Sulfate	17.70	6.827	4402437	114143



C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLLP

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903069 STD Solution ID: 45325/45405

3/11/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL5	**Chloride**	1.25	1.35	108	90 - 110%
	Nitrite-N	1.25	1.29	103	90 - 110%
	Nitrate-N	1.25	1.25	100	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH5	**Chloride**	20.0	20.9	105	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL6	**Chloride**	1.25	1.35	108	90 - 110%
	Nitrite-N	1.25	1.33	106	90 - 110%
	Nitrate-N	1.25	1.27	102	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH6	**Chloride**	20.0	21.0	105	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL7	**Chloride**	1.25	1.32	106	90 - 110%
	Nitrite-N	1.25	1.31	105	90 - 110%
	Nitrate-N	1.25	1.23	98.4	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH7	**Chloride**	20.0	20.8	104	90 - 110%

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903069 STD Solution ID: 45325/45405

3/28/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL3	**Chloride**	1.25	1.24	99.2	90 - 110%
	Nitrite-N	1.25	1.24	99.2	90 - 110%
	Nitrate-N	1.25	1.22	97.6	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	**Chloride**	20.0	20.1	101	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL4	**Chloride**	1.25	1.25	100	90 - 110%
	Nitrite-N	1.25	1.25	100	90 - 110%
	Nitrate-N	1.25	1.22	97.6	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	**Chloride**	20.0	20.0	100	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL5	**Chloride**	1.25	1.26	101	90 - 110%
	Nitrite-N	1.25	1.27	102	90 - 110%
	Nitrate-N	1.25	1.22	97.6	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH5	**Chloride**	20.0	19.9	99.5	90 - 110%

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.63 min	1.00 min	
Chloride	6.40 min	1.00 min	
Nitrite-N	8.27 min	1.00 min	
Bromide	11.13 min	1.00 min	
Nitrate-N	13.37 min	1.00 min	
Phosphate-P	16.77 min	1.00 min	
Sulfate	18.97 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.63 min	0	0
Chloride	6.40 min	0	0
Nitrite-N	8.27 min	0	0
Bromide	11.13 min	0	0
Nitrate-N	13.37 min	0	0
Phosphate-P	16.77 min	0	0
Sulfate	18.97 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.63 min	Linear	Ignore	Area		0.00
Chloride	6.40 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.27 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.13 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	13.37 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.77 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.97 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	4957.2
2	0.10	109547
3	0.25	277132
4	0.50	557311
5	1.00	1.24129e+006
6	2.50	3.20076e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.40 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	77115.9
3	0.25	197410
4	0.50	408470
5	1.00	836176
6	2.50	2.12844e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.27 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	13027
2	0.10	159558
3	0.25	359105
4	0.50	820570
5	1.00	1.74342e+006
6	2.50	4.38464e+006

CD20 Component = Bromide Levels Table

Retention Time : 11.13 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	38326.6
3	0.25	88554.3
4	0.50	165498
5	1.00	356395
6	2.50	912041

CD20 Component = Nitrate-N Levels Table

Retention Time : 13.37 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	205502
3	0.25	506529
4	0.50	970676
5	1.00	2.16507e+006
6	2.50	6.05721e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7303.4
2	0.10	67439.6
3	0.25	165945
4	0.50	353067
5	1.00	734622
6	2.50	1.93771e+006

CD20 Component = Sulfate Levels Table

Retention Time : 18.97 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	53956.6
3	0.25	139751
4	0.50	274835
5	1.00	612643
6	2.50	1.52046e+006

CD20 XY Data Parameters

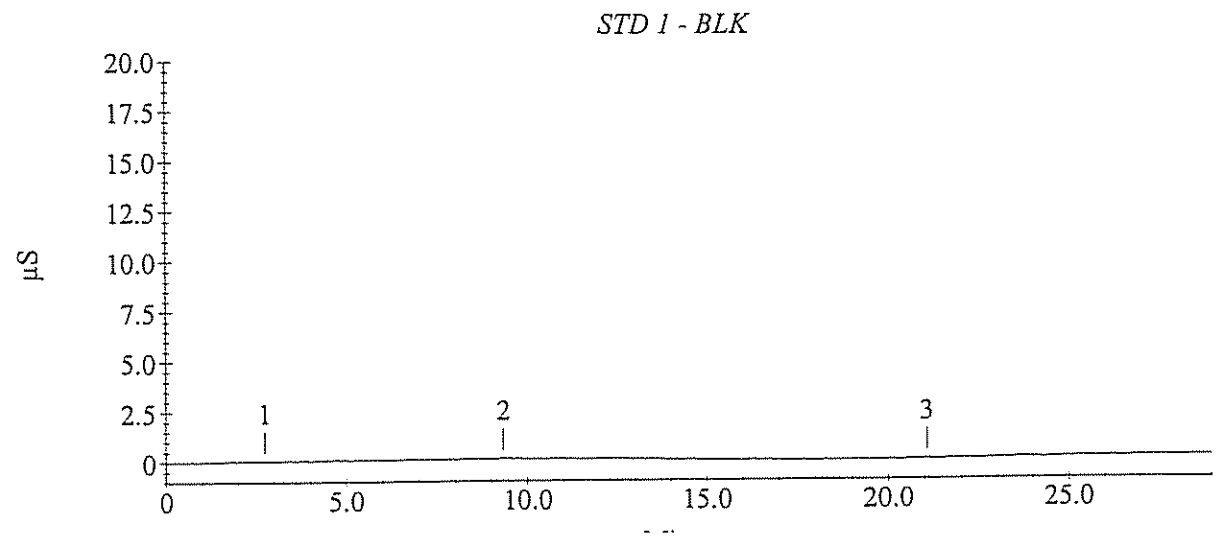
Calibration Update Report

Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\080917\080917__003.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:21:51 PM
Calibration Date : 9/18/08 10:53:59 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride Chloride	2.73	12030	4957	4957
2	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	9.33	10214	13027	13027



Calibration Update Report

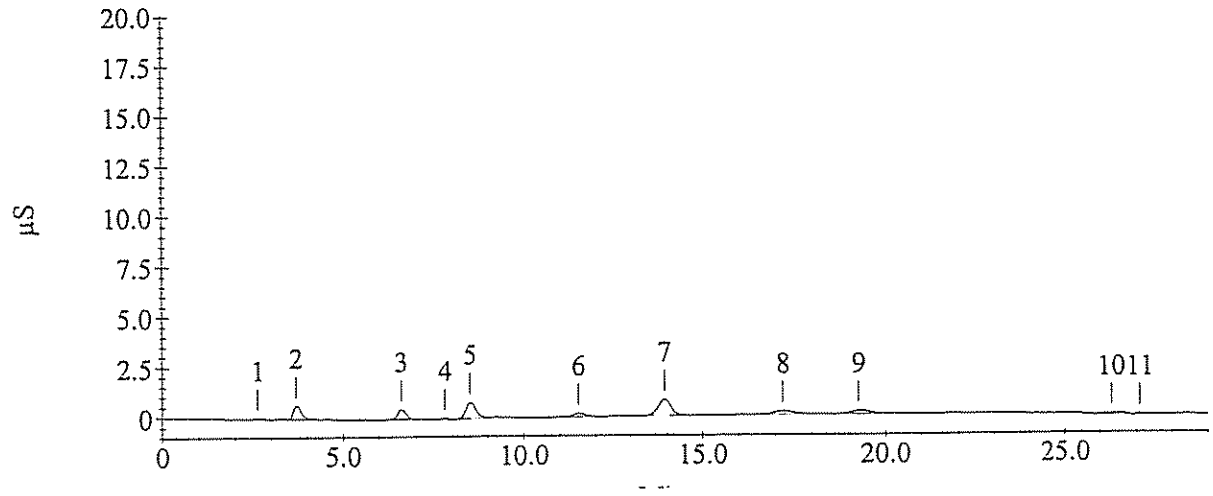
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__004.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:54:07 PM
Calibration Date : 9/18/08 10:54:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.70	127699	109547	109547
3	Chloride	6.60	79506	77116	77116
5	Nitrite-N	8.50	165770	159558	159558
6	Bromide	11.53	36476	38327	38327
7	Nitrate-N	13.93	210099	205502	205502
8	Phosphate-P	17.20	57656	67440	67440
9	Sulfate	19.27	29056	53957	53957

STD 2 - 0.10 mg/L



Calibration Update Report

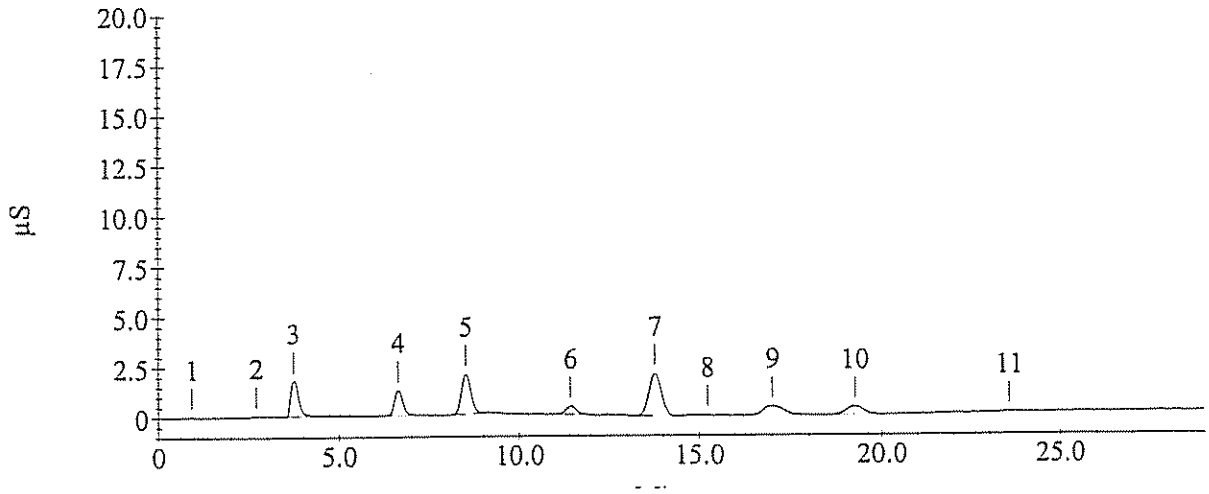
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__005.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:26:23 PM
Calibration Date : 9/18/08 10:55:25 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.73	321091	277132	277132
4	Chloride	6.63	234107	197410	197410
5	Nitrite-N	8.50	439503	359105	359105
6	Bromide	11.43	91211	88554	88554
7	Nitrate-N	13.77	544593	506530	506530
9	Phosphate-P	17.00	161886	165945	165945
10	Sulfate	19.27	150013	139751	139751

STD 3 - 0.25 mg/L



Calibration Update Report

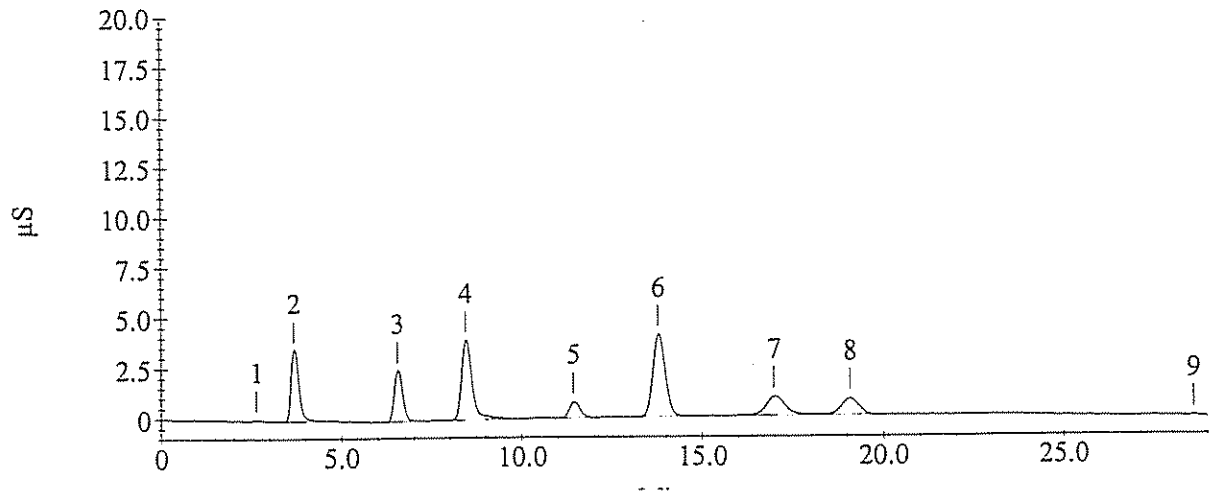
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__006.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:58:39 PM
Calibration Date : 9/18/08 10:55:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	652331	557311	557311
3	Chloride	6.53	443570	408470	408470
4	Nitrite-N	8.43	856511	820570	820570
5	Bromide	11.43	176794	165498	165498
6	Nitrate-N	13.77	1117440	970676	970676
7	Phosphate-P	16.97	364199	353067	353067
8	Sulfate	19.07	317565	274835	274835

STD 4 - 0.50 mg/L



Calibration Update Report

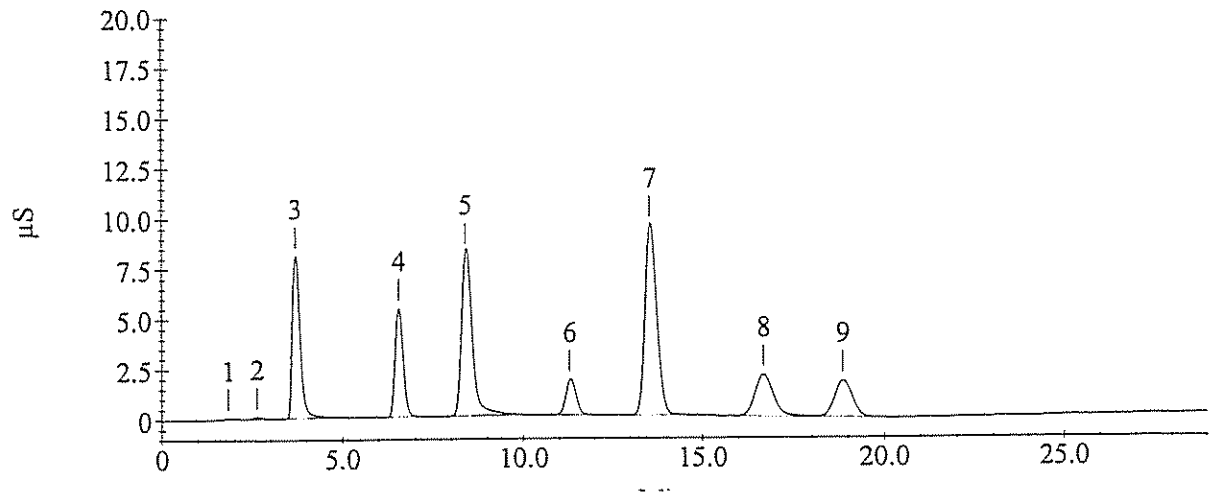
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__007.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 5:30:56 PM
Calibration Date : 9/18/08 10:56:16 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	1414952	1241286	1241286
4	Chloride	6.57	945973	836176	836176
5	Nitrite-N	8.40	1867081	1743424	1743424
6	Bromide	11.30	378829	356395	356395
7	Nitrate-N	13.53	2350504	2165069	2165069
8	Phosphate-P	16.70	766176	734622	734622
9	Sulfate	18.87	605591	612643	612643

STD 5 - 1.00 mg/L



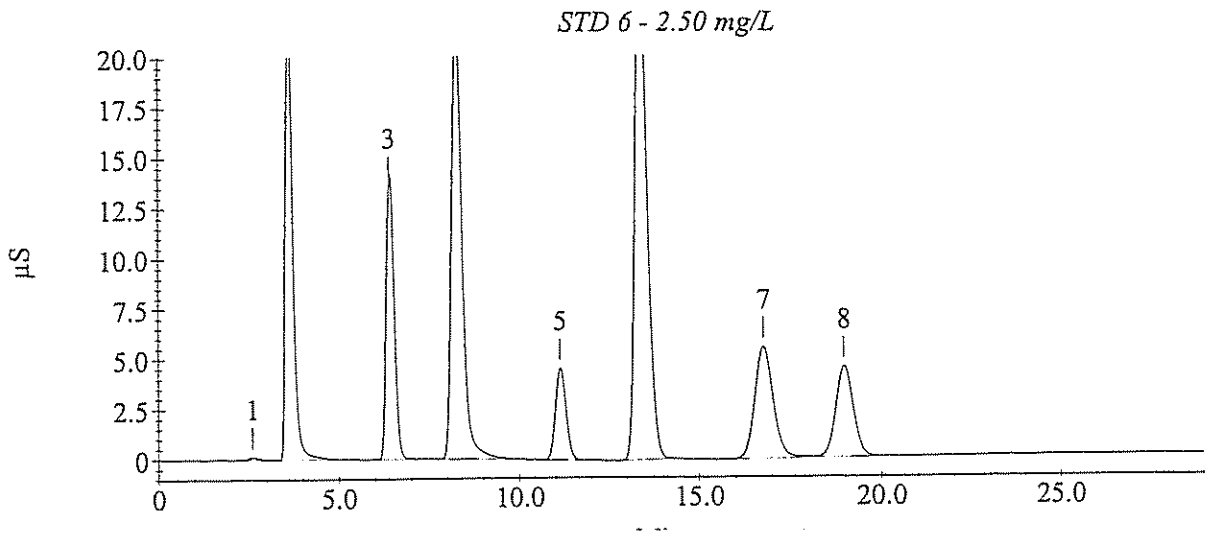
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__008.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:03:10 PM
Calibration Date : 9/18/08 10:56:45 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.63	3393532	3201114	3201114
3	Chloride	6.40	2250125	2128443	2128443
4	Nitrite-N	8.27	4631633	4384638	4384638
5	Bromide	11.13	897545	912041	912041
6	Nitrate-N	13.37	6210895	6057211	6057211
7	Phosphate-P	16.77	2064462	1937708	1937708
8	Sulfate	18.97	1545001	1520461	1520461



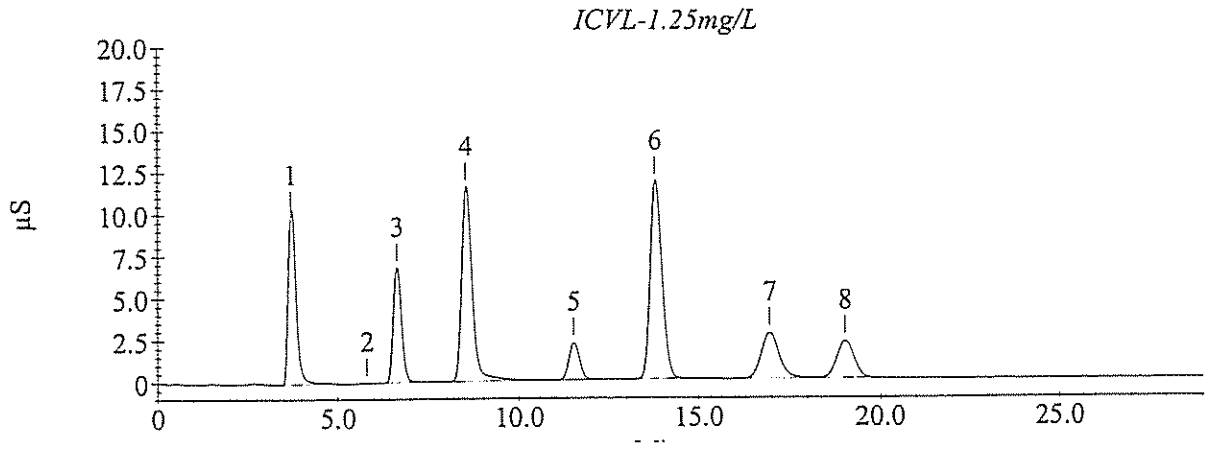
Sample Analysis Report

Sample Name : ICVL-1.25mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 9/17/08 9:49:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	1.272	1599310	100086
3	Chloride	6.63	1.281	1081600	67848
4	Nitrite-N	8.53	1.342	2332375	115172
5	Bromide	11.53	1.266	457280	22107
6	Nitrate-N	13.80	1.167	2714120	117215
7	Phosphate-P	16.97	1.231	934494	27173
8	Sulfate	19.03	1.214	732044	22175



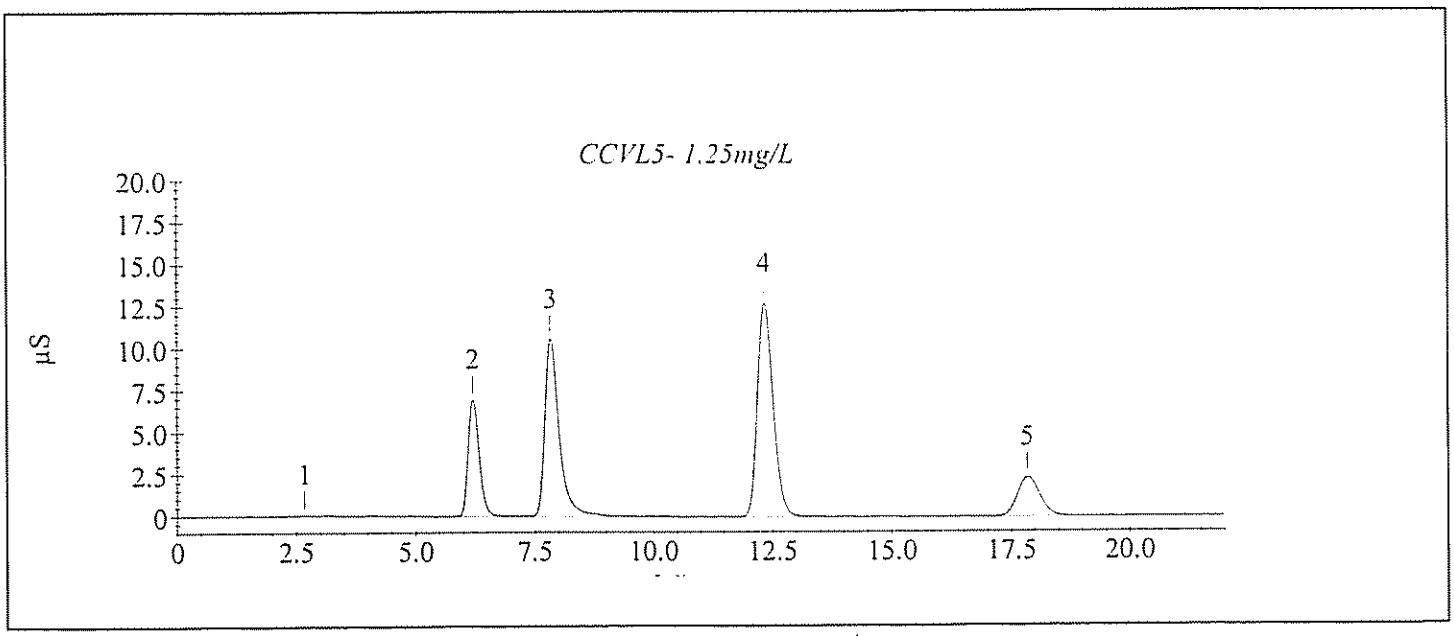
Sample Analysis Report

Sample Name : CCVL5- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__058.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 12:44:31 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	0.044	4669	334
2	Chloride	6.20	1.351	1141978	69337
3	Nitrite-N	7.83	1.288	2234839	104948
4	Bromide Nitrate-N	12.33	1.249	2916079	126645
5	Phosphate-P Sulfate	17.83	1.282	773580	23341



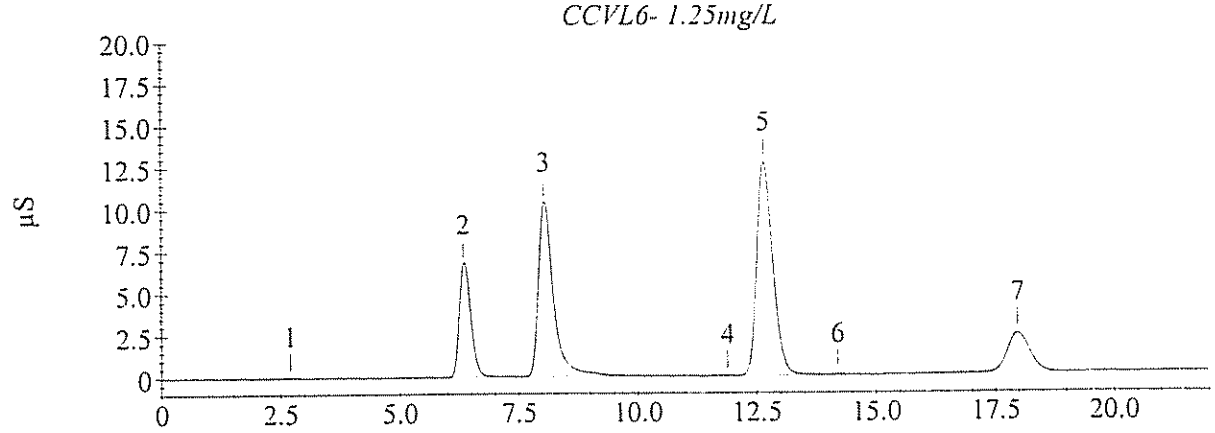
Sample Analysis Report

Sample Name : CCVL6- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__071.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 6:11:27 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	0.045	5972	445
2	Chloride	6.33	1.352	1142073	66349
3	Nitrite-N	8.03	1.326	2303015	102864
4	Bromide	11.90	0.047	10663	327
5	Nitrate-N	12.67	1.267	2961068	126727
	Phosphate-P				
7	Sulfate	17.97	1.311	791473	23593



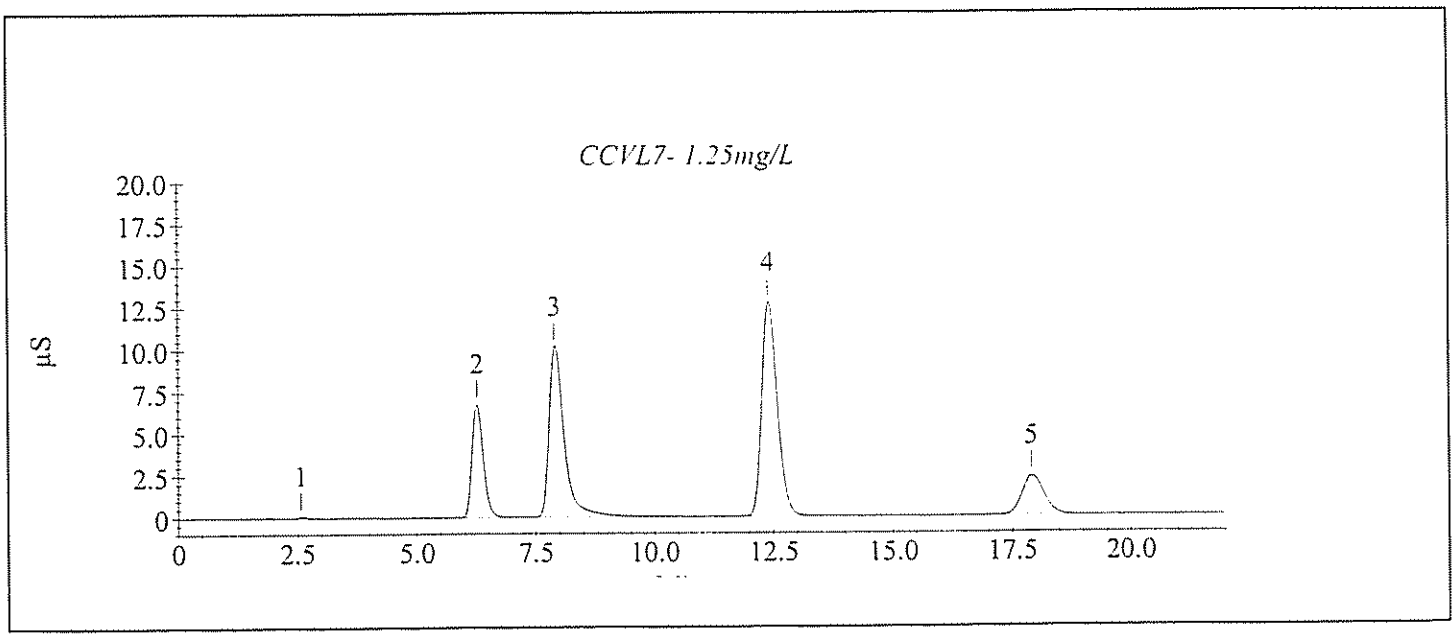
Sample Analysis Report

Sample Name : CCVL7- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__084.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 11:38:30 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.57	0.000	11664	851
2	Chloride	6.27	1.315 ✓	1111067	67078
3	Nitrite-N	7.90	1.309 ✓	2273673	100683
4	Bromide Nitrate-N	12.40	1.234 ✓	2879568	126694
5	Phosphate-P Sulfate	17.90	1.268	765003	23275



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.67 min	1.00 min	
Chloride	6.20 min	1.00 min	
Nitrite-N	7.83 min	1.00 min	
Bromide	10.33 min	1.00 min	
Nitrate-N	12.20 min	1.00 min	
Phosphate-P	15.67 min	5.00 min	
Sulfate	17.80 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.67 min	0	0
Chloride	6.20 min	0	0
Nitrite-N	7.83 min	0	0
Bromide	10.33 min	0	0
Nitrate-N	12.20 min	0	0
Phosphate-P	15.67 min	0	0
Sulfate	17.80 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.67 min	Linear	Ignore	Area		0.00
Chloride	6.20 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	7.83 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.33 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.20 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.67 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.80 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	21958
2	0.10	135267
3	0.25	287985
4	0.50	546281
5	1.00	1.21146e+006
6	2.50	3.07327e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	104137
3	0.25	210975
4	0.50	423601
5	1.00	886345
6	2.50	2.27702e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 7.83 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	62855.3
2	0.10	238116
3	0.25	487595
4	0.50	880655
5	1.00	1.79323e+006
6	2.50	4.50791e+006

CD20 Component = Bromide Levels Table

Retention Time : 10.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	36053.3
3	0.25	87423.9
4	0.50	184692
5	1.00	378819
6	2.50	940431

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	198696
3	0.25	532712
4	0.50	1.03372e+006
5	1.00	2.36629e+006
6	2.50	6.12422e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	8388.6
2	0.10	29693.1
3	0.25	120423
4	0.50	216150
5	1.00	493533
6	2.50	1.34148e+006

CD20 Component = Sulfate Levels Table

Retention Time : 17.80 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	79015.6
3	0.25	193779
4	0.50	348721
5	1.00	729749
6	2.50	1.79531e+006

CD20 XY Data Parameters

Calibration Update Report

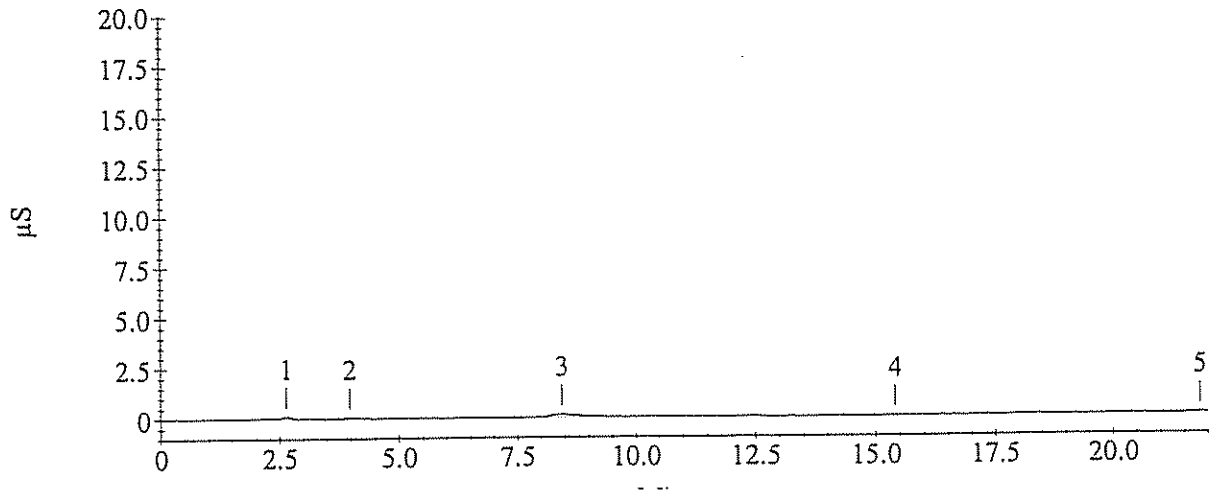
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\090318\090318__005.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:30:43 PM
Calibration Date : 3/19/09 9:53:29 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride Chloride	3.97	4957	21958	21958
3	Nitrite-N Bromide	8.43	13027	62855	62855
4	Nitrate-N Phosphate-P Sulfate	15.40	7303	8389	8389

STD 1 - BLK



Calibration Update Report

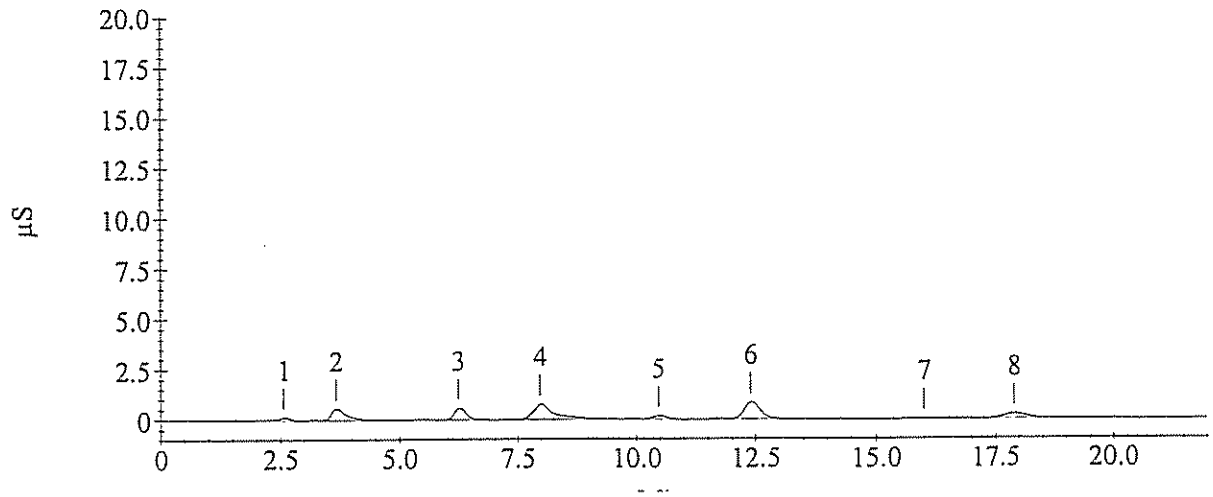
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__006.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:55:47 PM
Calibration Date : 3/19/09 10:00:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	109547	135267	135267
3	Chloride	6.23	77116	104137	104137
4	Nitrite-N	7.97	159558	238116	238116
5	Bromide	10.47	38327	36053	36053
6	Nitrate-N	12.40	205502	198696	198696
7	Phosphate-P	16.00	67440	29693	29693
8	Sulfate	17.90	53957	79016	79016

STD 2 - 0.10 mg/L



Calibration Update Report

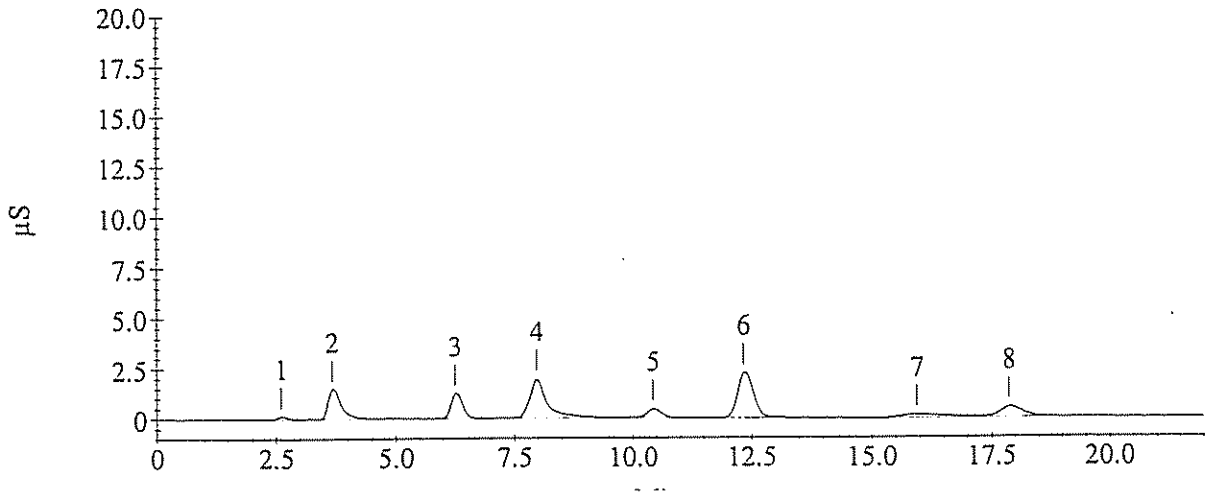
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__007.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:20:51 PM
Calibration Date : 3/19/09 9:16:23 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	277132	287985	287985
3	Chloride	6.23	197410	210975	210975
4	Nitrite-N	7.97	359105	487595	487595
5	Bromide	10.43	88554	87424	87424
6	Nitrate-N	12.33	506529	532712	532712
7	Phosphate-P	15.93	165945	120423	120423
8	Sulfate	17.87	139751	193779	193779

STD 3 - 0.25 mg/L



Calibration Update Report

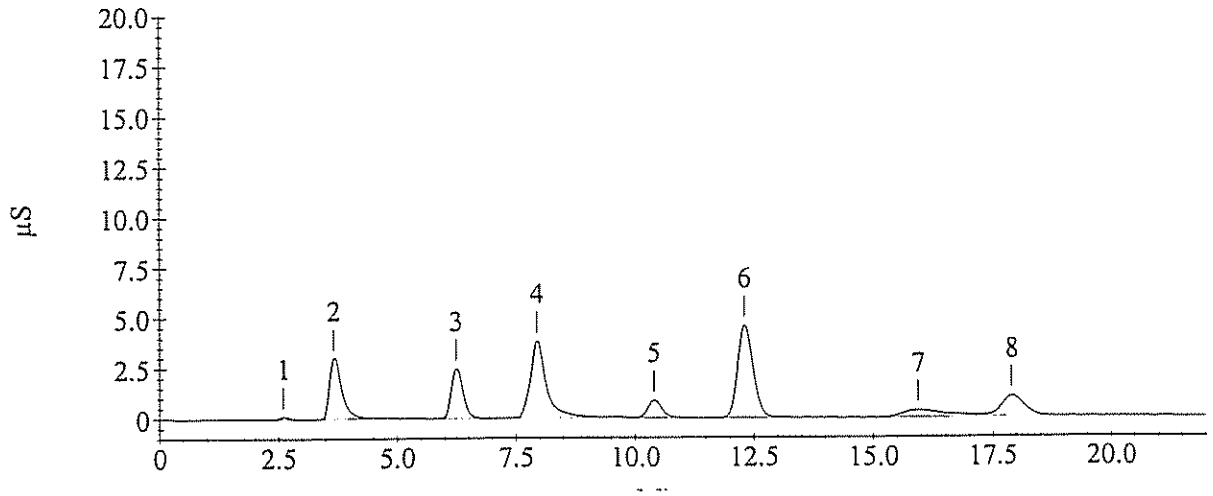
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__008.DXD

Method File Name : H:\icdata\methods\method 300\0903181-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:45:56 PM
Calibration Date : 3/19/09 9:16:47 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	557311	546281	546281
3	Chloride	6.23	408470	423601	423601
4	Nitrite-N	7.93	820570	880655	880655
5	Bromide	10.40	165498	184692	184692
6	Nitrate-N	12.30	970676	1033717	1033717
7	Phosphate-P	15.93	353067	216150	216150
8	Sulfate	17.90	274835	348721	348721

STD 4 - 0.50 mg/L



Calibration Update Report

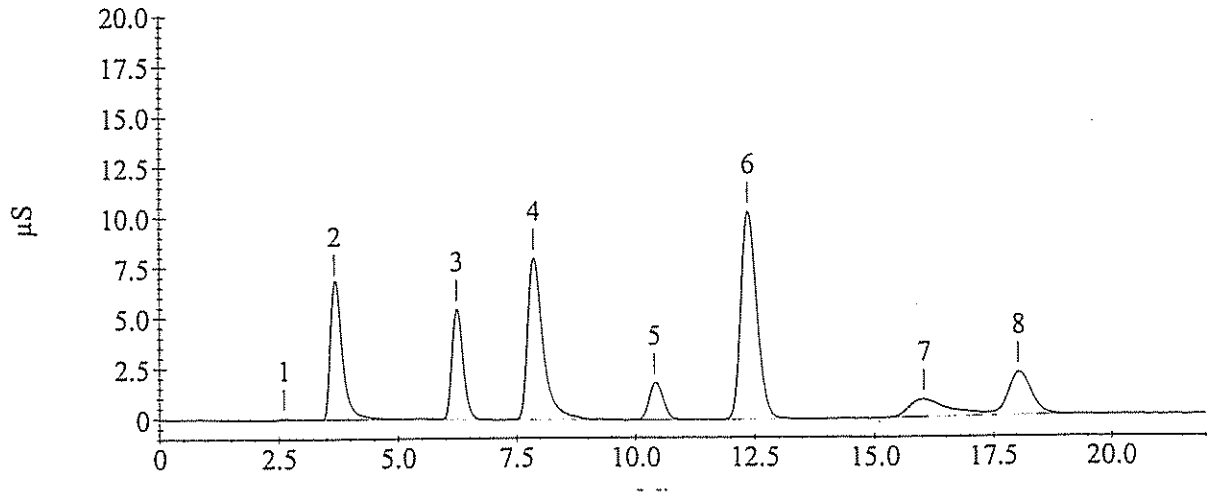
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__009.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:11:03 PM
Calibration Date : 3/19/09 9:17:01 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	1241286	1211455	1211455
3	Chloride	6.23	836176	886345	886345
4	Nitrite-N	7.87	1743424	1793231	1793231
5	Bromide	10.40	356395	378819	378819
6	Nitrate-N	12.37	2165069	2366291	2366291
7	Phosphate-P	16.03	734622	493533	493533
8	Sulfate	18.03	612643	729749	729749

STD 5 - 1.00 mg/L



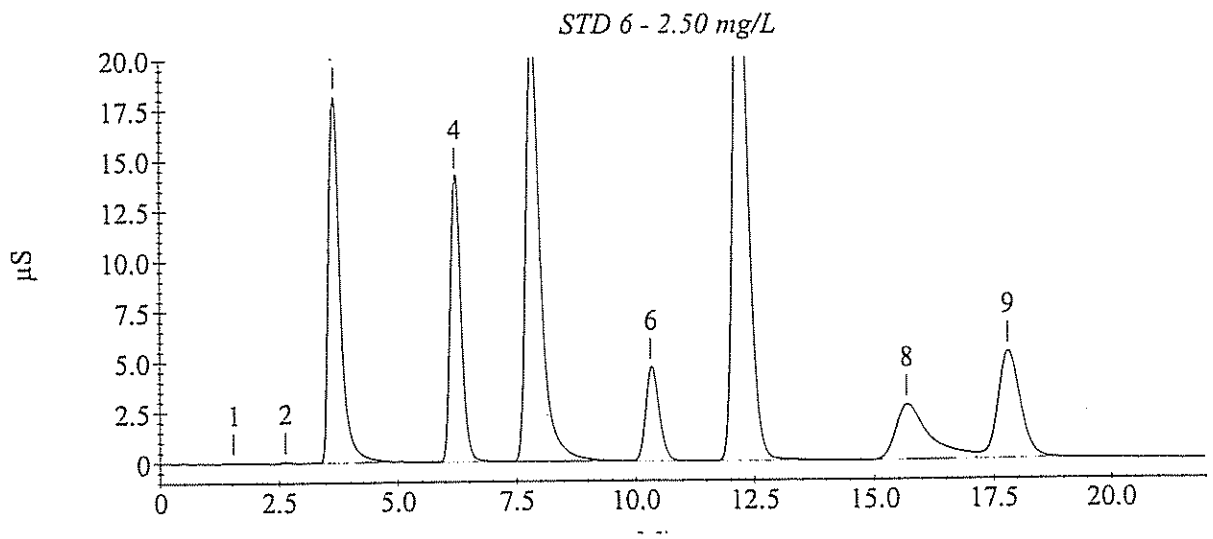
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__010.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:36:08 PM
Calibration Date : 3/19/09 9:17:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.67	3200757	3073266	3073266
4	Chloride	6.20	2128443	2277017	2277017
5	Nitrite-N	7.83	4384638	4507913	4507913
6	Bromide	10.33	912041	940431	940431
7	Nitrate-N	12.20	6057211	6124224	6124224
8	Phosphate-P	15.67	1937708	1341477	1341477
9	Sulfate	17.80	1520461	1795309	1795309



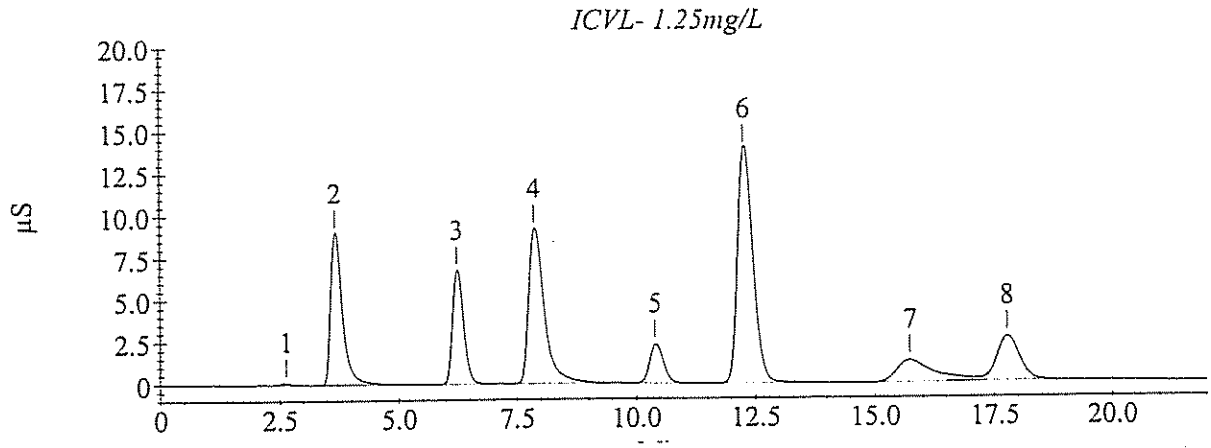
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__017.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/18/09 6:31:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.283	1565911	89179
3	Chloride	6.23	1.228	1107725	66995
4	Nitrite-N	7.87	1.169	2120349	91415
5	Bromide	10.40	1.243	466511	23016
6	Nitrate-N	12.27	1.307	3138229	138573
7	Phosphate-P	15.73	1.340	701225	13082
8	Sulfate	17.77	1.256	905537	26377



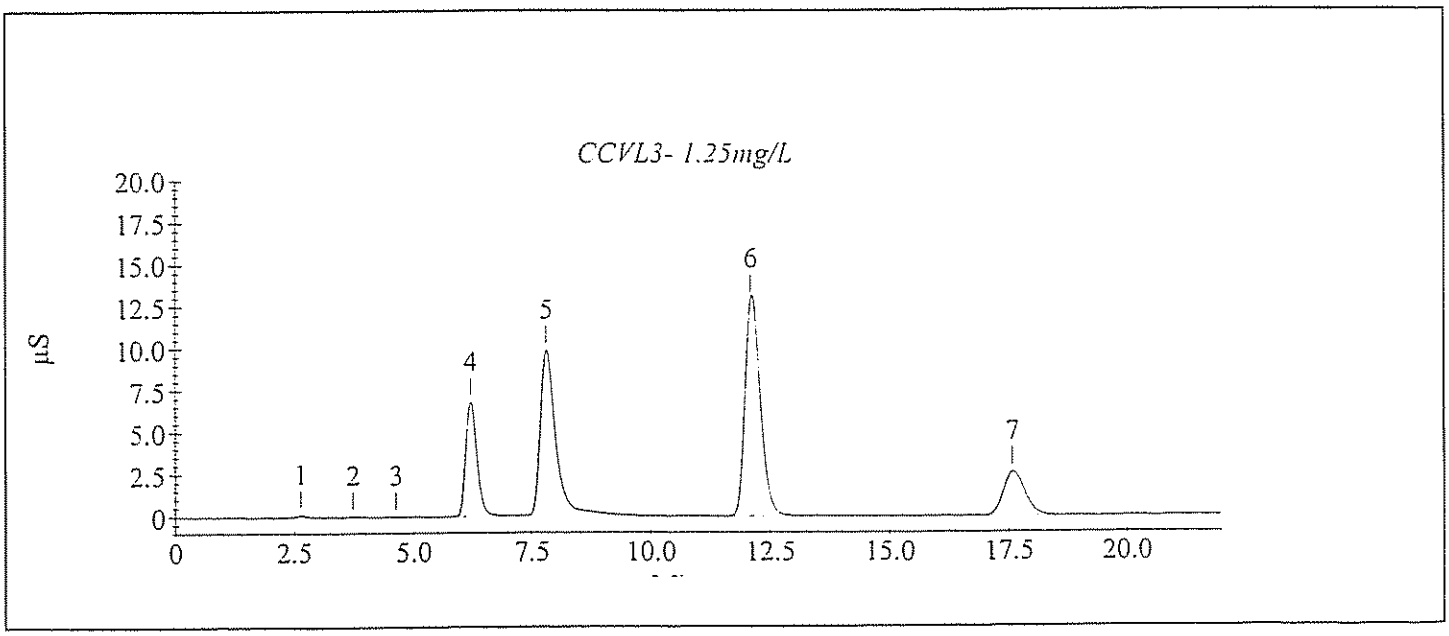
Sample Analysis Report

Sample Name : CCVL3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090328\090328__041.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/29/09 3:29:11 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	0.016	7895	402
4	Chloride	6.20	1.244	1121986	67298
5	Nitrite-N	7.80	1.238	2241566	97789
	Bromide				
6	Nitrate-N	12.10	1.217	2914736	128741
	Phosphate-P				
7	Sulfate	17.57	1.151	830285	25815



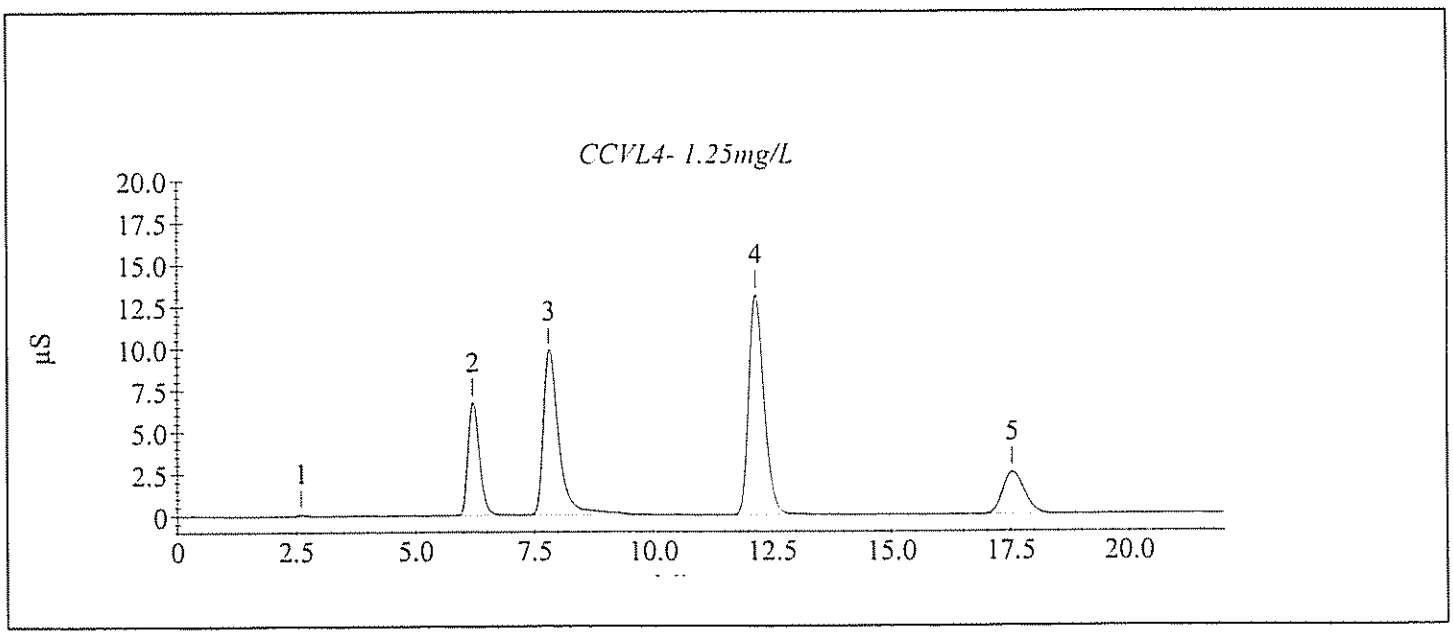
Sample Analysis Report

Sample Name : CCVL4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090328\090328__054.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/29/09 8:54:42 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	13932	959
2	Chloride	6.20	1.246	1123964	66744
3	Nitrite-N Bromide	7.80	1.245	2255001	97024
4	Nitrate-N Phosphate-P	12.17	1.222	2927687	130963
5	Sulfate	17.53	1.110	801018	24916



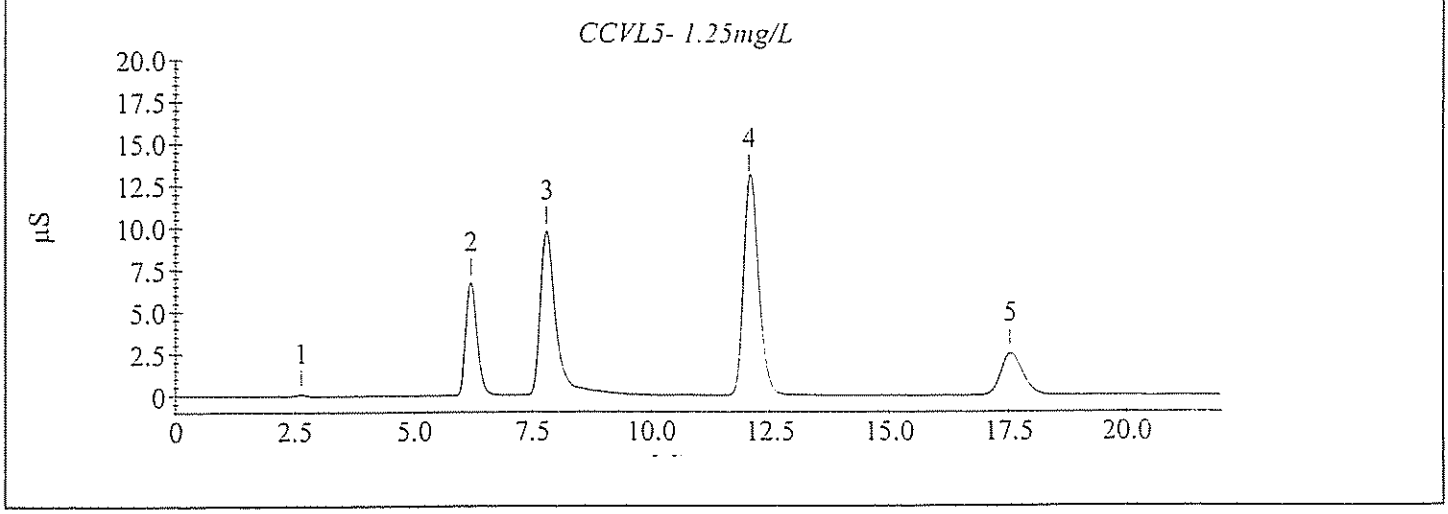
Sample Analysis Report

Sample Name : CCVL5- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090328\090328__065.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/29/09 1:30:01 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	14793	1105
2	Chloride	6.20	1.258	1134582	66918
3	Nitrite-N Bromide	7.80	1.272	2302311	97295
4	Nitrate-N Phosphate-P	12.07	1.215	2908876	128181
5	Sulfate	17.53	1.112	802770	24774



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	2.00 min	
Chloride	6.60 min	2.00 min	
Nitrite-N	8.60 min	2.00 min	
Bromide	11.10 min	2.00 min	
Nitrate-N	12.53 min	2.00 min	
Phosphate-P	16.53 min	2.00 min	
Sulfate	18.63 min	2.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.60 min	0	0
Nitrite-N	8.60 min	0	0
Bromide	11.10 min	0	0
Nitrate-N	12.53 min	0	0
Phosphate-P	16.53 min	0	0
Sulfate	18.63 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.60 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.60 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.10 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.53 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.53 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.63 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.19633e+006
2	5.00	6.79909e+006
3	10.00	1.4197e+007
4	15.00	2.23583e+007
5	25.00	3.24666e+007
6	50.00	5.95621e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.17209e+006
2	5.00	4.74491e+006
3	10.00	1.09177e+007
4	15.00	1.81901e+007
5	25.00	3.02302e+007
6	50.00	6.49975e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.50237e+006
2	5.00	9.32687e+006
3	10.00	1.88466e+007
4	15.00	2.84344e+007
5	25.00	4.30083e+007
6	50.00	7.78228e+007

CD20 Component = Bromide Levels Table

Retention Time : 11.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	944915
2	5.00	1.94188e+006
3	10.00	4.22448e+006
4	15.00	6.96738e+006
5	25.00	1.20925e+007
6	50.00	2.71285e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.0797e+006
2	5.00	1.34786e+007
3	10.00	2.97651e+007
4	15.00	4.68262e+007
5	25.00	7.95557e+007
6	50.00	1.68531e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.91979e+006
2	5.00	4.10318e+006
3	10.00	9.26053e+006
4	15.00	1.50936e+007
5	25.00	2.73147e+007
6	50.00	5.84703e+007

CD20 Component = Sulfate Levels Table

Retention Time : 18.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.51196e+006
2	5.00	3.10193e+006
3	10.00	6.7792e+006
4	15.00	1.0794e+007
5	25.00	1.95858e+007
6	50.00	4.20941e+007

CD20 XY Data Parameters

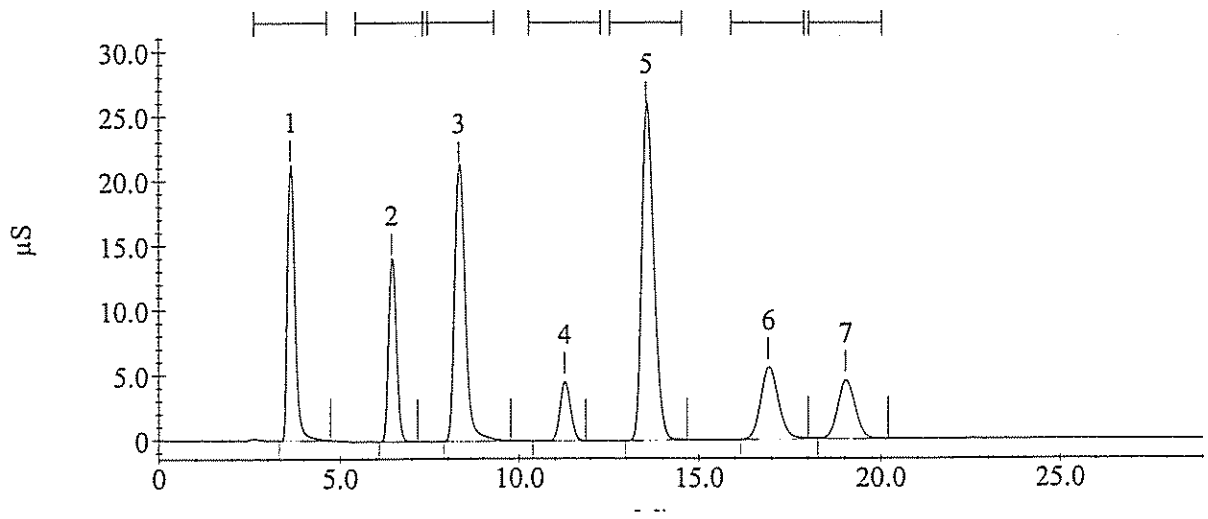
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__009.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:35:27 PM
Calibration Date : 9/18/08 1:45:07 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.63	3490609	3196333	3196333
2	Chloride	6.43	2340736	2172090	2172090
3	Nitrite-N	8.30	4788476	4502370	4502370
4	Bromide	11.27	910060	944915	944915
5	Nitrate-N	13.53	6100255	6079699	6079699
6	Phosphate-P	16.90	1989759	1919795	1919795
7	Sulfate	19.03	1509227	1511958	1511958



Calibration Update Report

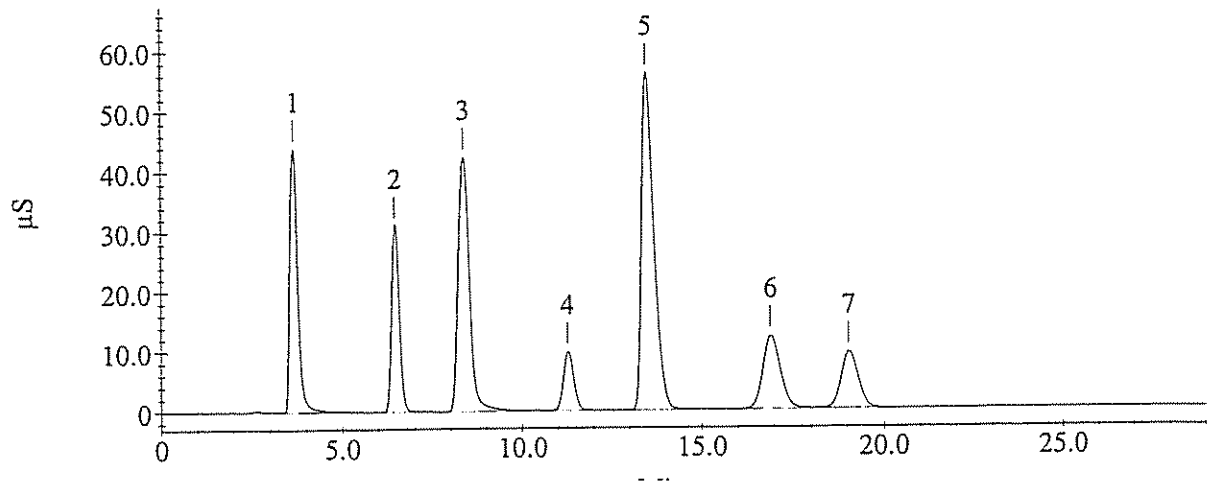
Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__010.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:07:45 PM
Calibration Date : 9/18/08 1:46:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	7163728	6799090	6799090
2	Chloride	6.47	4951970	4744908	4744908
3	Nitrite-N	8.37	9622812	9326874	9326874
4	Bromide	11.27	1886735	1941879	1941879
5	Nitrate-N	13.47	13547415	13478598	13478598
6	Phosphate-P	16.90	4333106	4103184	4103184
7	Sulfate	19.03	3220366	3101926	3101926

STD 2 - 5.00 mg/L



Calibration Update Report

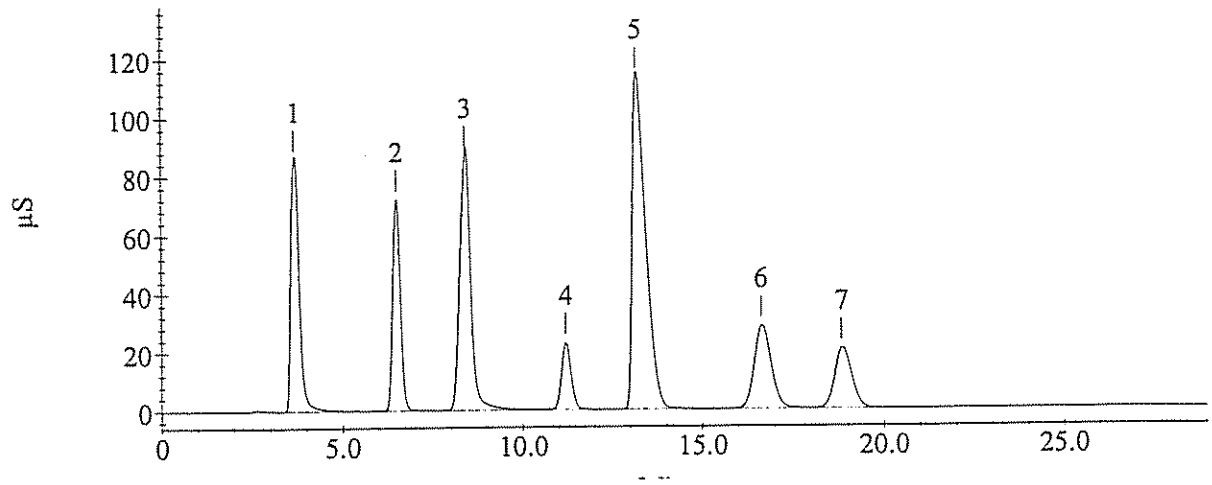
Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__011.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:39:59 PM
Calibration Date : 9/18/08 1:46:56 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	15827968	14197049	14197049
2	Chloride	6.50	12391700	10917702	10917702
3	Nitrite-N	8.40	20828057	18846586	18846586
4	Bromide	11.20	4468055	4224476	4224476
5	Nitrate-N	13.17	32002772	29765135	29765135
6	Phosphate-P	16.63	10155360	9260527	9260527
7	Sulfate	18.83	7254458	6779202	6779202

STD 3 - 10.0 mg/L



Calibration Update Report

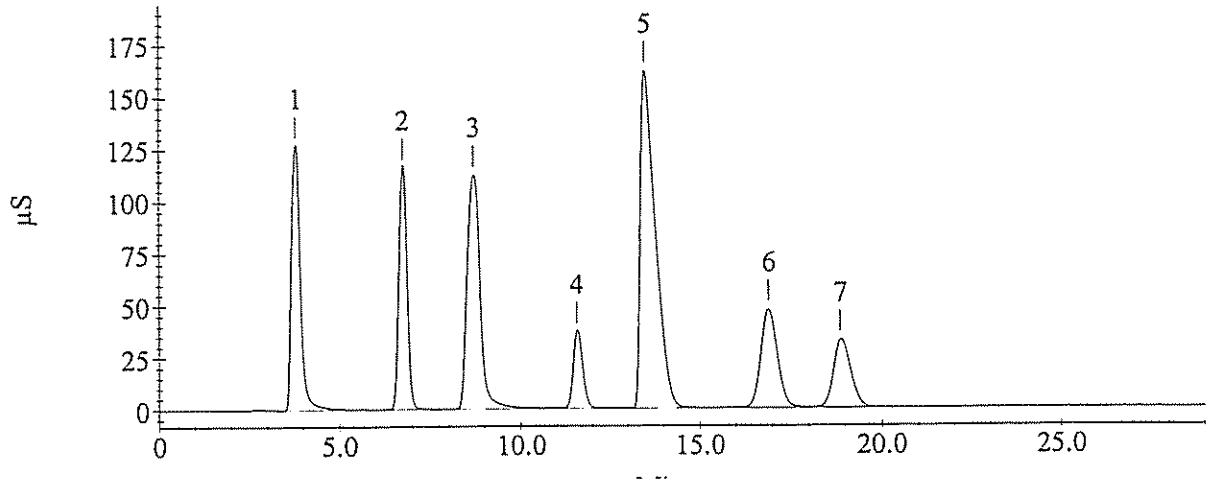
Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__012.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:12:14 PM
Calibration Date : 9/18/08 1:55:13 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.80	22029611	22358309	22358309
2	Chloride	6.73	18865697	18190071	18190071
3	Nitrite-N	8.70	29289300	28434383	28434383
4	Bromide	11.57	7016812	6967382	6967382
5	Nitrate-N	13.47	50292581	46826178	46826178
6	Phosphate-P	16.90	16723468	15093639	15093639
7	Sulfate	18.87	11671317	10793955	10793955

STD 4 - 15.0 mg/L



Calibration Update Report

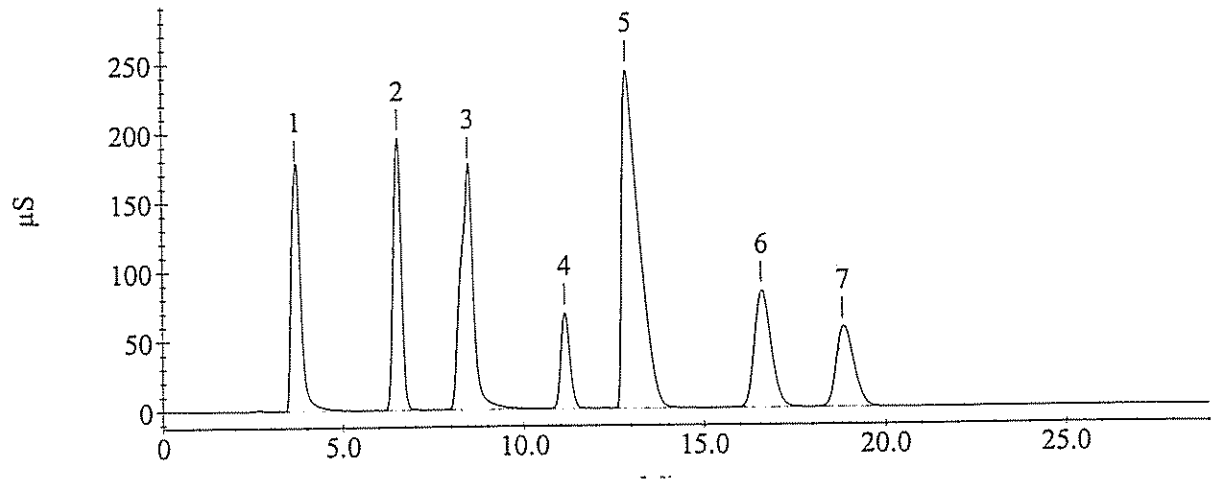
Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__013.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:44:30 PM
Calibration Date : 9/18/08 1:55:31 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.70	33007779	32466619	32466619
2	Chloride	6.53	32580429	30230161	30230161
3	Nitrite-N	8.47	44840173	43008339	43008339
4	Bromide	11.13	12419665	12092529	12092529
5	Nitrate-N	12.87	83601485	79555670	79555670
6	Phosphate-P	16.60	28101078	27314683	27314683
7	Sulfate	18.83	19423982	19585760	19585760

STD 5 - 25.0 mg/L



Calibration Update Report

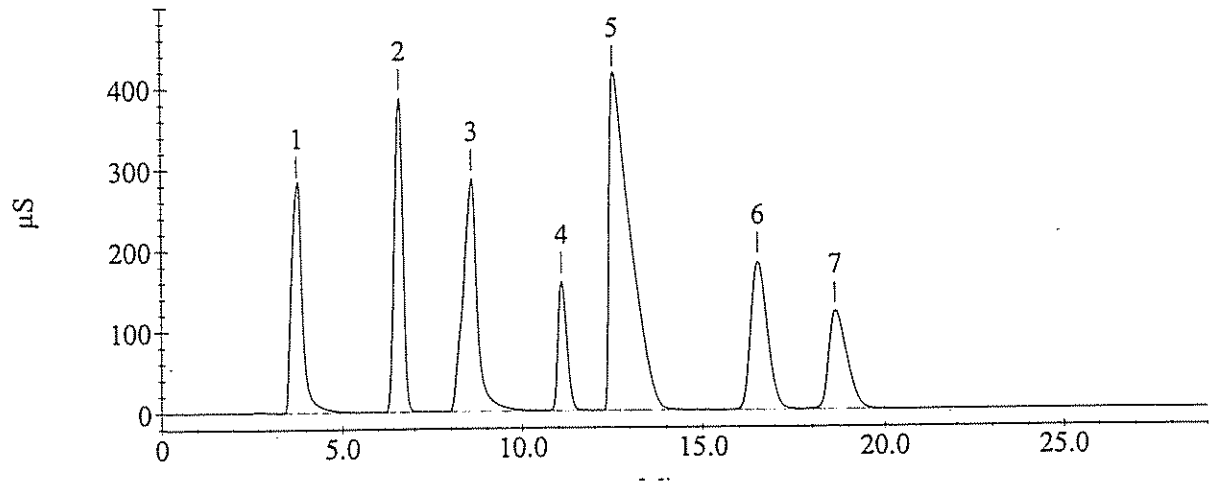
Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__014.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 9:16:45 PM
Calibration Date : 9/18/08 1:55:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.77	61202691	59562057	59562057
2	Chloride	6.60	68397328	64997521	64997521
3	Nitrite-N	8.60	78043406	77822760	77822760
4	Bromide	11.10	26985167	27128528	27128528
5	Nitrate-N	12.53	170058779	168531288	168531288
6	Phosphate-P	16.53	60044391	58470285	58470285
7	Sulfate	18.63	41693235	42094125	42094125

STD 6 - 50.0 mg/L



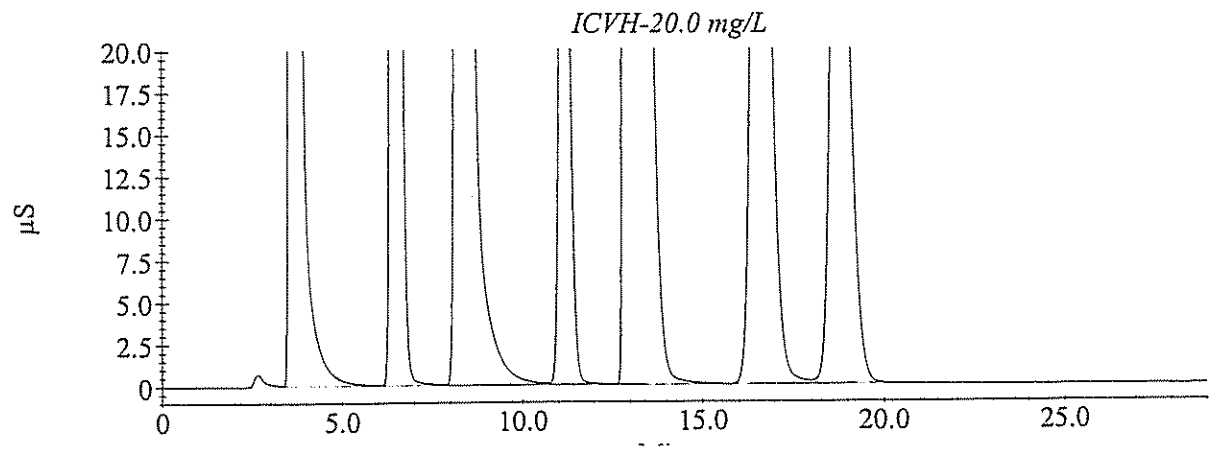
Sample Analysis Report

Sample Name : ICVH-20.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__016.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 9/17/08 10:21:17 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	19.970	27365306	1532443
2	Chloride	6.53	19.882	24486856	1608579
3	Nitrite-N	8.47	22.633	37577280	1419007
4	Bromide	11.17	18.982	9475913	530938
5	Nitrate-N	12.97	19.672	63390755	2049592
6	Phosphate-P	16.60	19.427	21178030	659102
7	Sulfate	18.80	19.274	15149498	460473



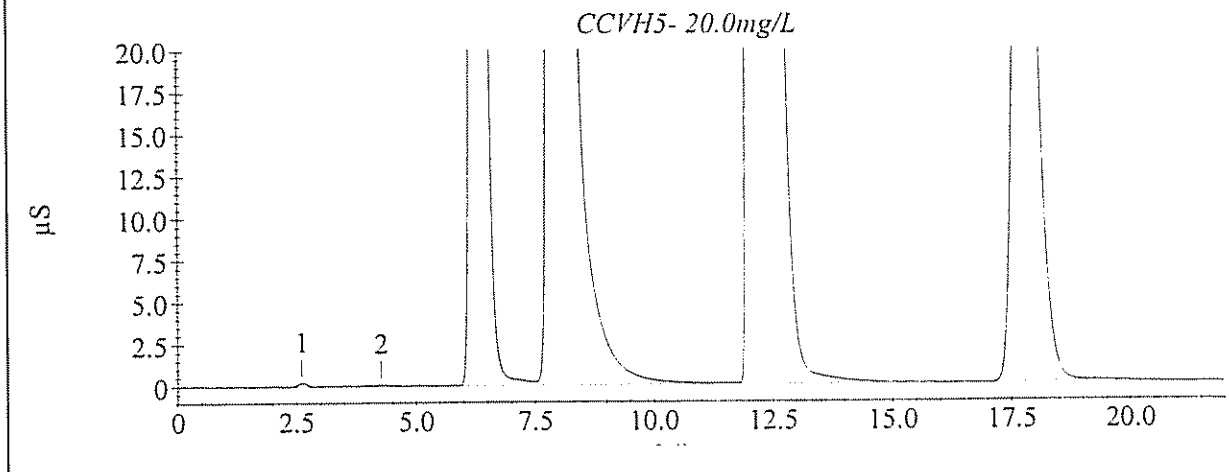
Sample Analysis Report

Sample Name : CCVH5- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__059.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/12/09 1:09:40 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	4.27	0.506	11703	555
3	Chloride	6.33	20.937	25888837	1550382
4	Nitrite-N	8.07	23.629	39110288	1292819
5	Bromide Nitrate-N	12.13	20.849	67428664	2253315
6	Phosphate-P Sulfate	17.77	20.279	16017516	519008



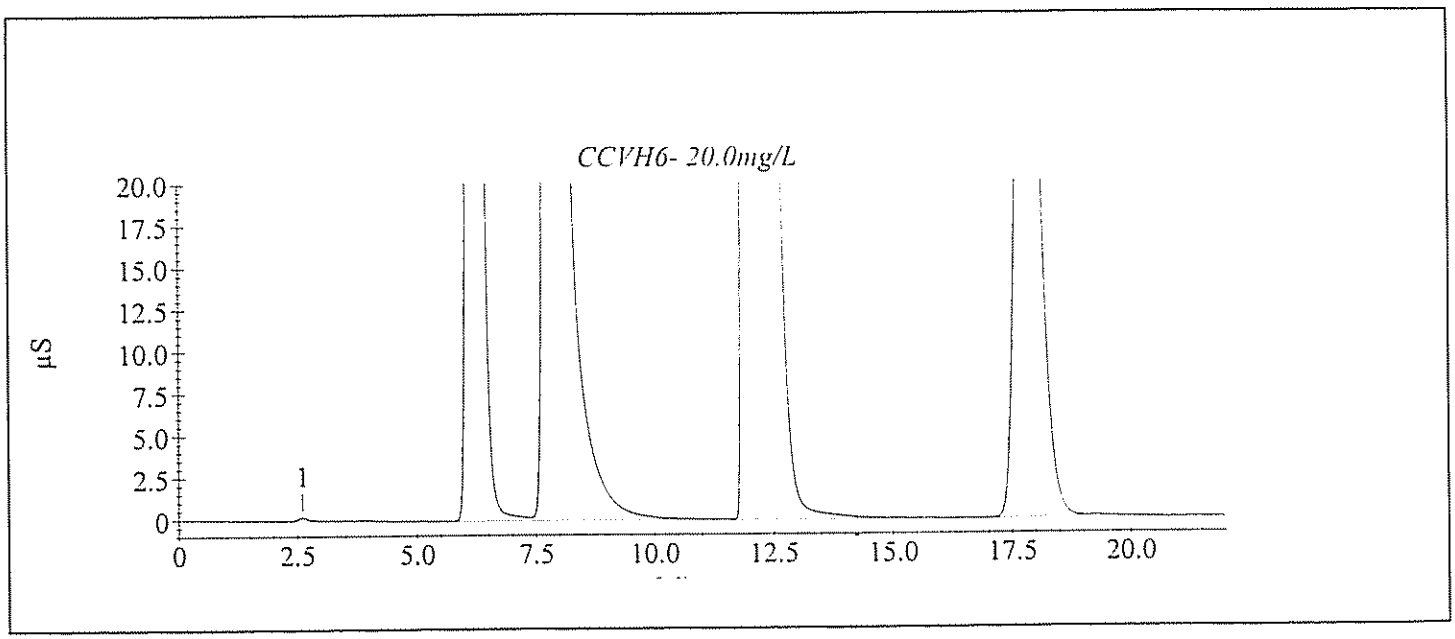
Sample Analysis Report

Sample Name : CCVH6- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__072.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/12/09 6:36:37 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	31474	2009
2	Chloride	6.23	21.028	26010681	1582931
3	Nitrite-N	7.87	23.171	38405049	1578802
4	Bromide Nitrate-N	12.03	21.105	68307536	2281958
5	Phosphate-P Sulfate	17.80	20.418	16137482	519036



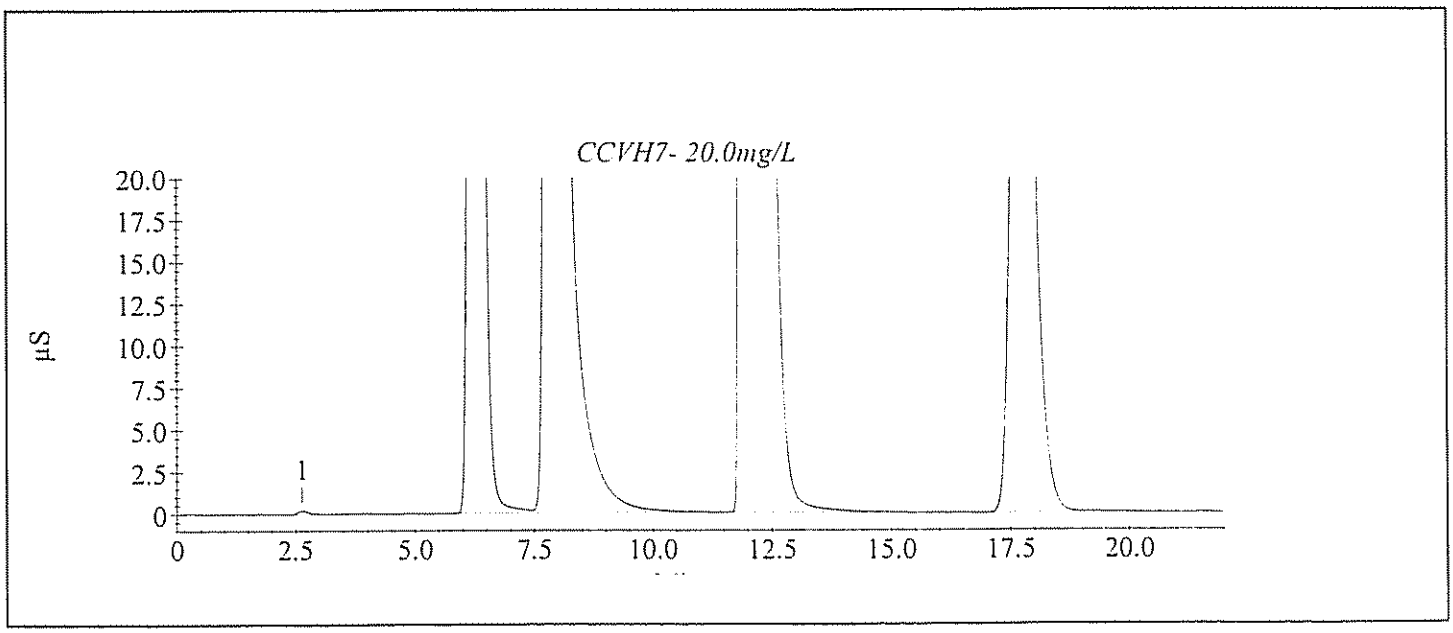
Sample Analysis Report

Sample Name : CCVH7- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090311\090311__085.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/13/09 12:03:39 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	30804	2009
2	Chloride	6.30	20.840	25760007	1596025
3	Nitrite-N Bromide	7.93	22.818	37861990	1597155
4	Nitrate-N Phosphate-P	12.00	20.609	66604824	2282241
5	Sulfate	17.73	20.061	15829395	514552



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

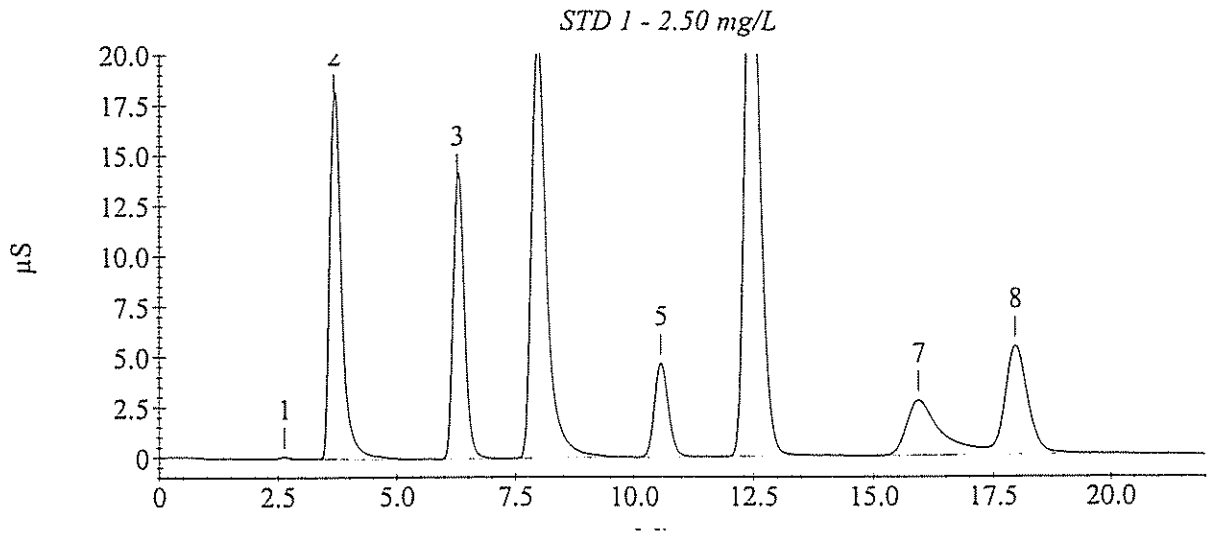
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



Calibration Update Report

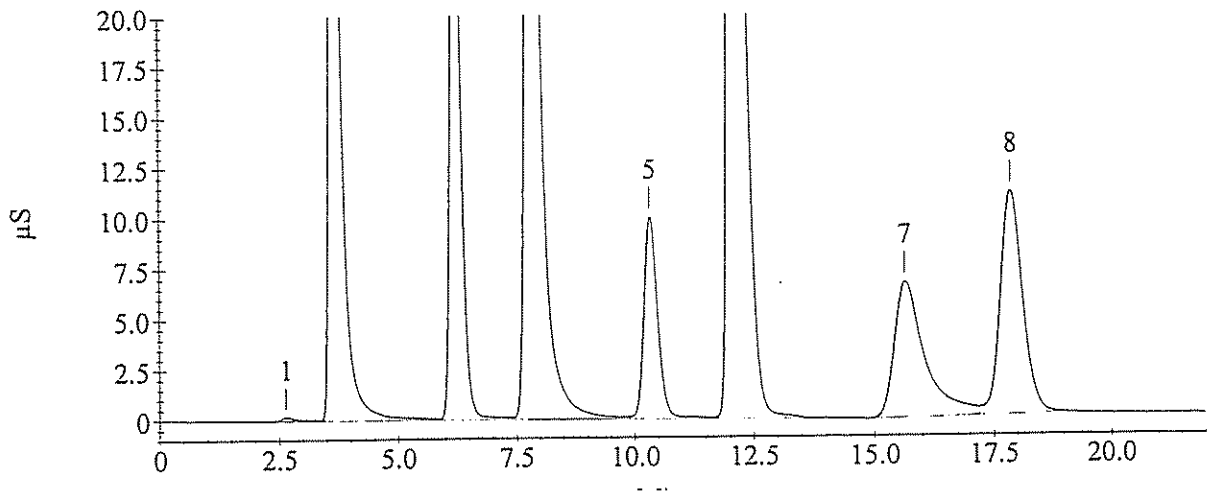
Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077

STD 2 - 5.00 mg/L



Calibration Update Report

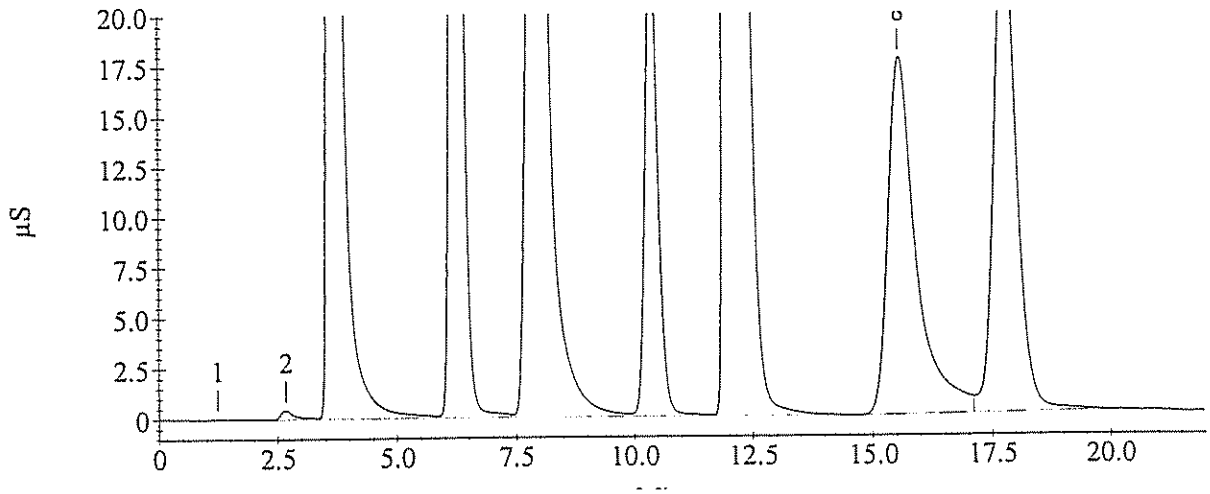
Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944

STD 3 - 10.0 mg/L



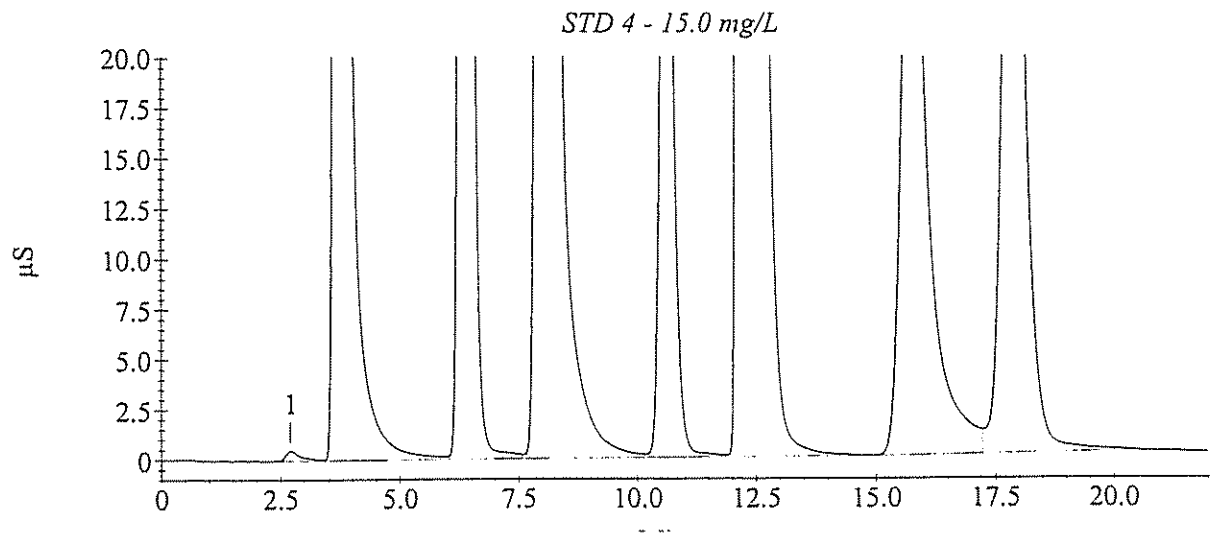
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



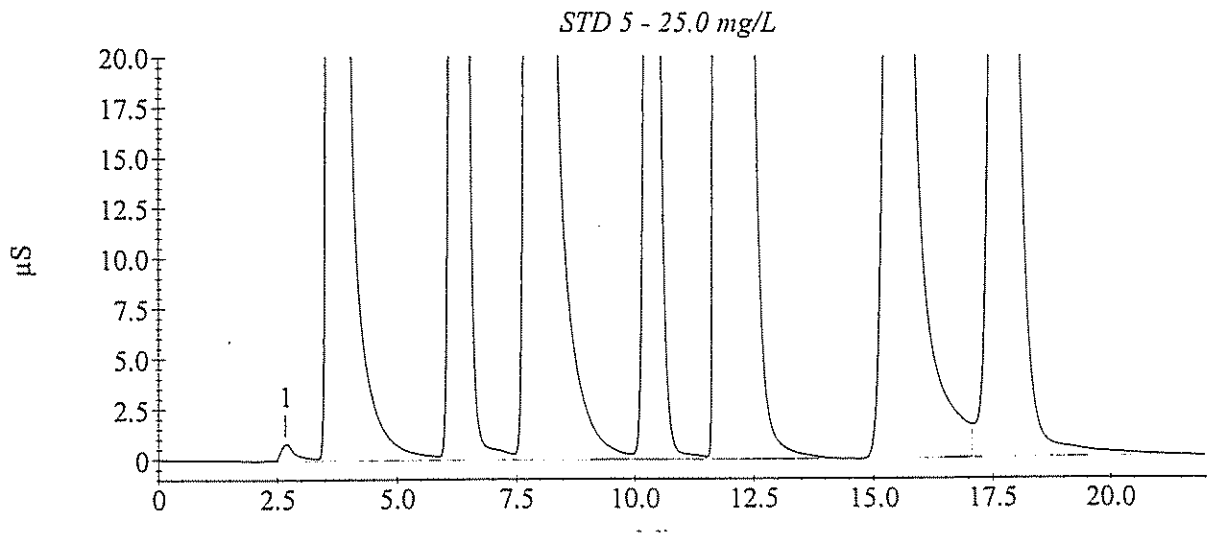
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



Calibration Update Report

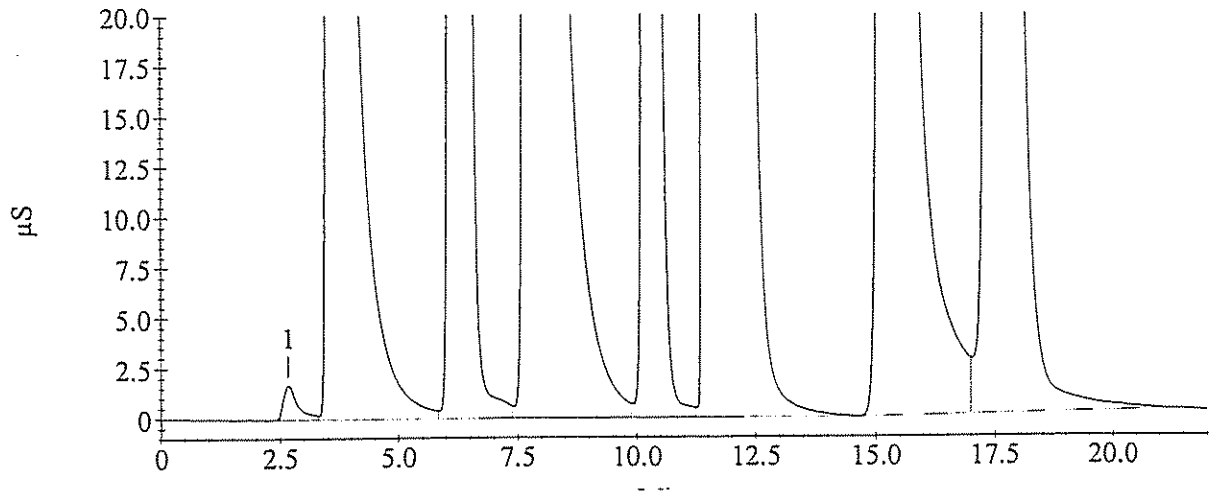
Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829

STD 6 - 50.0 mg/L



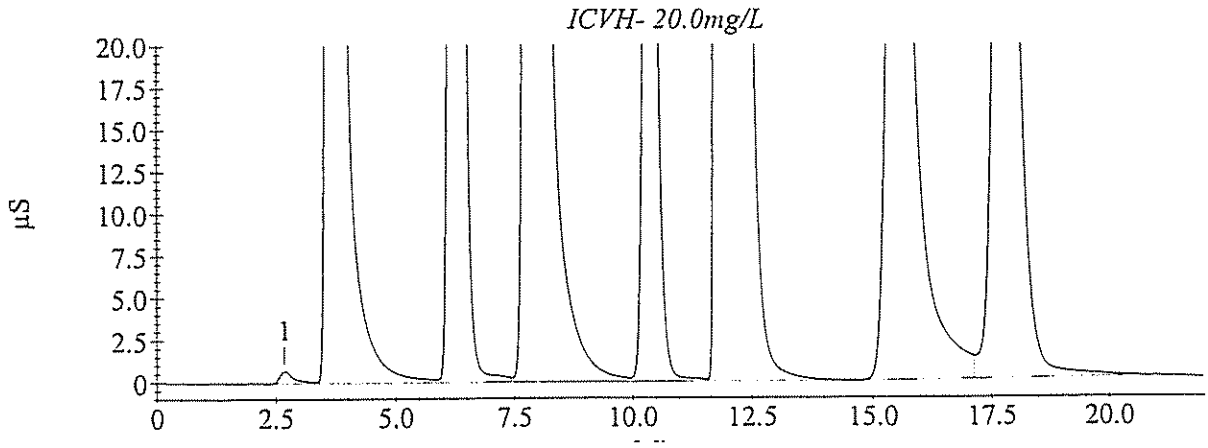
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



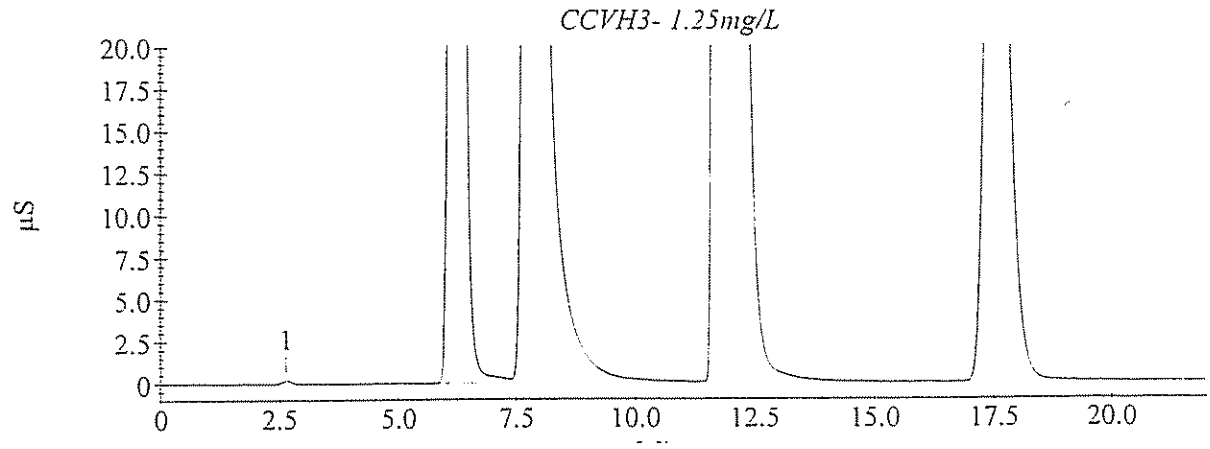
Sample Analysis Report

Sample Name : CCVH3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090328\090328__042.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 3:54:12 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	29647	2011
2	Chloride	6.23	20.074	25707389	1541845
3	Nitrite-N Bromide	7.83	26.640	37789928	1562912
4	Nitrate-N Phosphate-P	11.77	20.035	67018912	2304832
5	Sulfate	17.53	17.285	15959580	524488



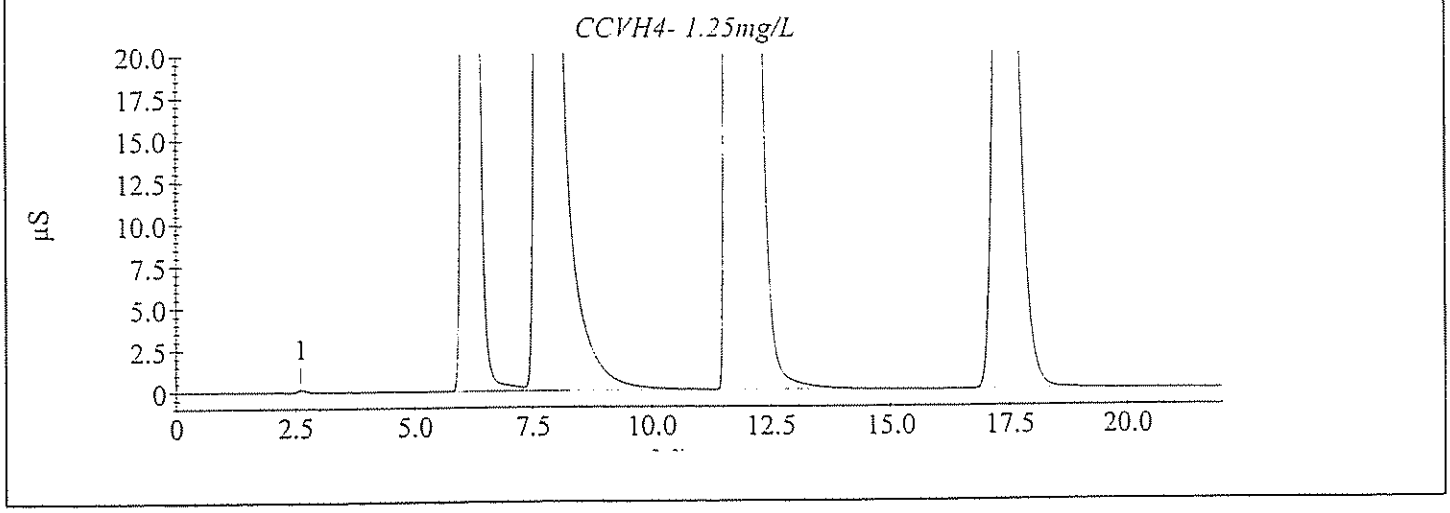
Sample Analysis Report

Sample Name : CCVH4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090328\090328__055.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 9:19:44 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	22499	1536
2	Chloride	6.20	19.997	25601754	1570159
3	Nitrite-N	7.77	26.513	37625575	1588365
4	Bromide Nitrate-N	11.70	20.015	66947568	2303067
5	Phosphate-P Sulfate	17.40	17.202	15874923	522556



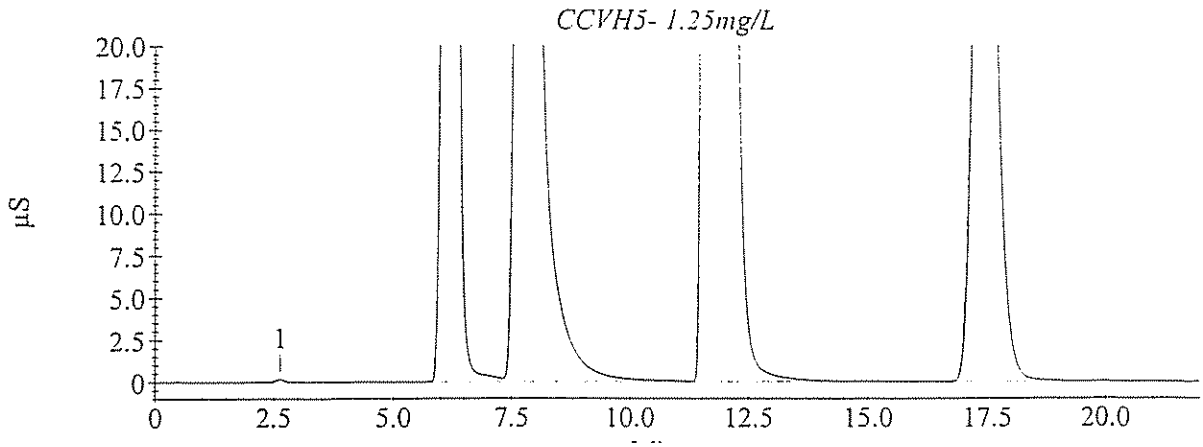
Sample Analysis Report

Sample Name : CCVH5- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090328\090328__066.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 1:55:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	22596	1648
2	Chloride	6.17	19.890	25454281	1498286
3	Nitrite-N Bromide	7.77	26.453	37549367	1584197
4	Nitrate-N Phosphate-P	11.67	19.876	66455879	2338720
5	Sulfate	17.40	17.089	15759666	520734



D. Raw QC Data

1. Extraction Logsheet (where applicable)

2. Injection Logsheet (where applicable)

GPL Laboratories, LLLP

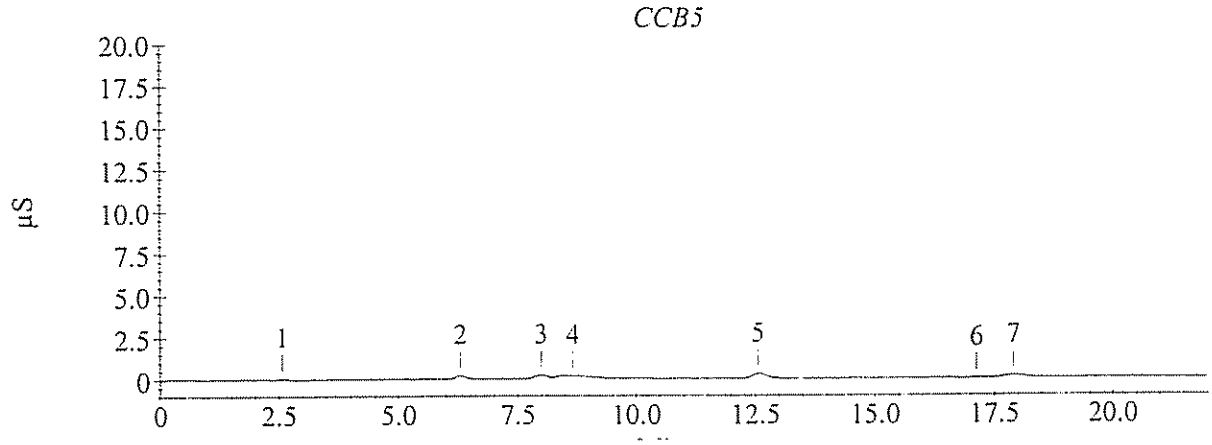
Sample Analysis Report

Sample Name : CCB5
Data File Name : I:\ICDATA\IC500\090311\090311__060.DXD

Method File Name : h:\icdata\methods\method 300\080917i-300-0.met
Date Time Collected : 3/12/09 1:34:53 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.57	0.000	10730	806
2	Chloride	6.30	0.056	32283	2006
3	Nitrite-N	8.00	0.052	40324	2116
	Bromide				
5	Nitrate-N	12.57	0.093	65580	2890
6	Phosphate-P	17.13	0.047	6505	319
	Sulfate				



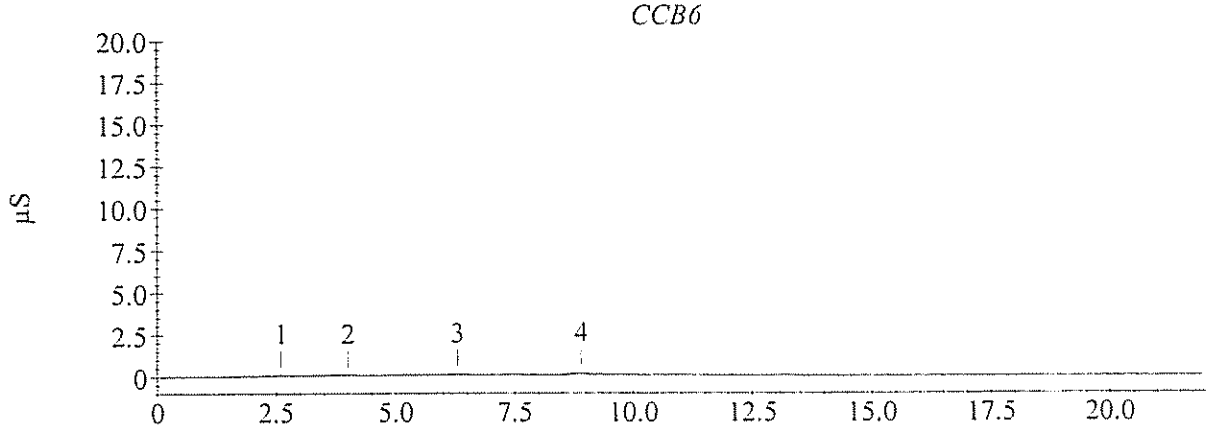
Sample Analysis Report

Sample Name : CCB6
Data File Name : I:\ICDATA\IC500\090311\090311__073.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Date Time Collected : 3/12/09 7:01:46 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	4.00	0.053	15999	230
3	Chloride	6.30	0.030	9830	489
4	Nitrite-N	8.90	0.045	29034	782
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



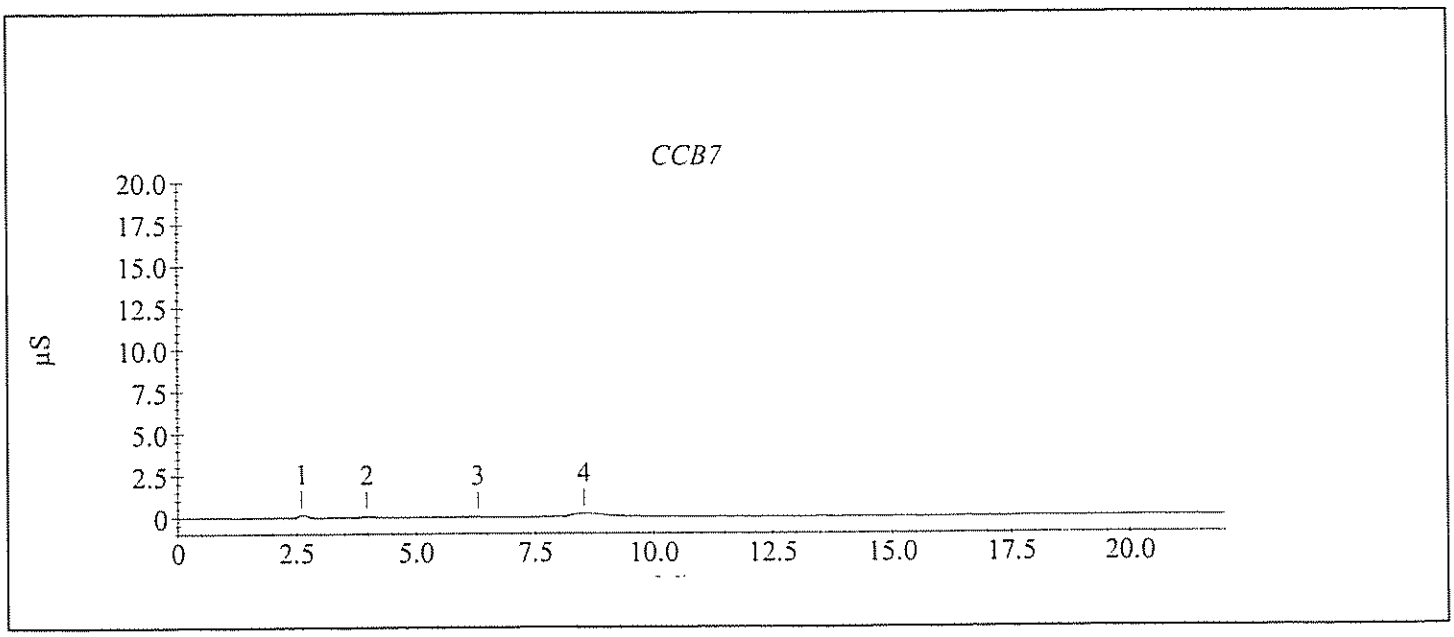
Sample Analysis Report

Sample Name : CCB7
Data File Name : I:\ICDATA\IC500\090311\090311__086.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Date Time Collected : 3/13/09 12:28:48 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.97	0.053	17022	862
3	Chloride	6.30	0.028 ✓	8398	393
4	Nitrite-N	8.53	0.082 ✓	94889	1801
	Bromide				
	Nitrate-N		✓		
	Phosphate-P				
	Sulfate				



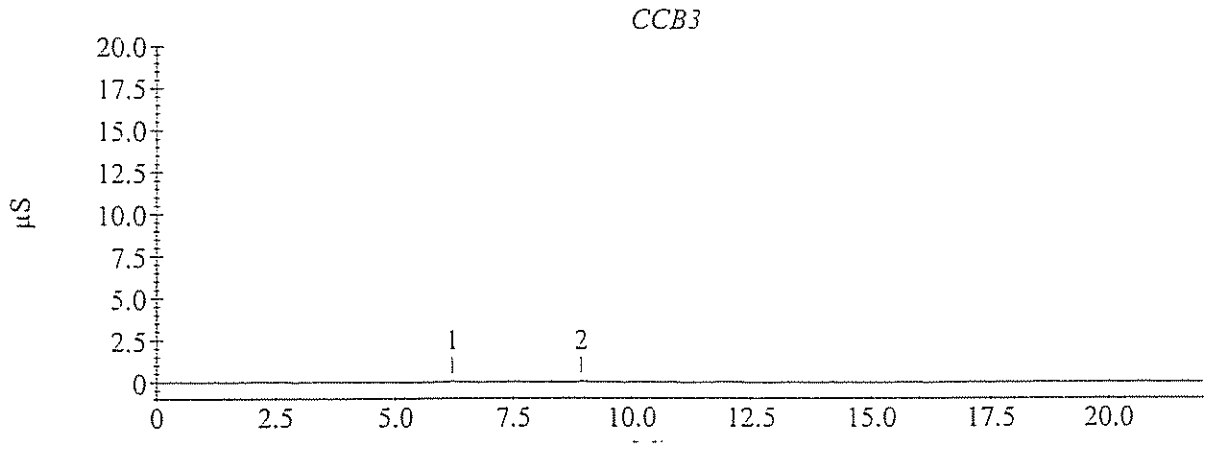
Sample Analysis Report

Sample Name : CCB3
Data File Name : I:\ICDATA\IC500\090328\090328__043.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/29/09 4:19:15 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Chloride	6.20	0.032	14674	644
1	Chloride	6.20	0.032	14674	644
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



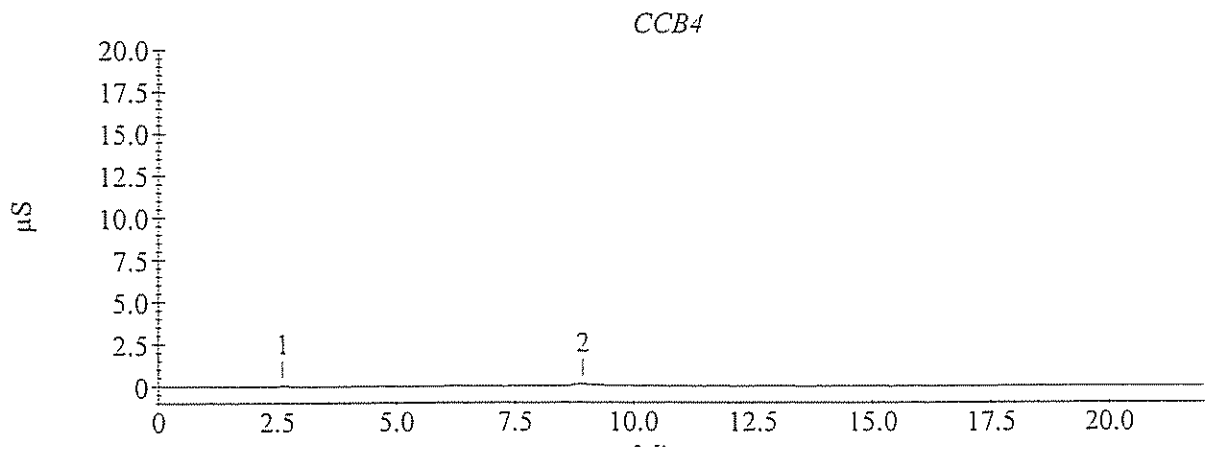
Sample Analysis Report

Sample Name : CCB4
Data File Name : I:\ICDATA\IC500\090328\090328__056.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/29/09 9:44:42 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	9901	639
	Chloride				
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



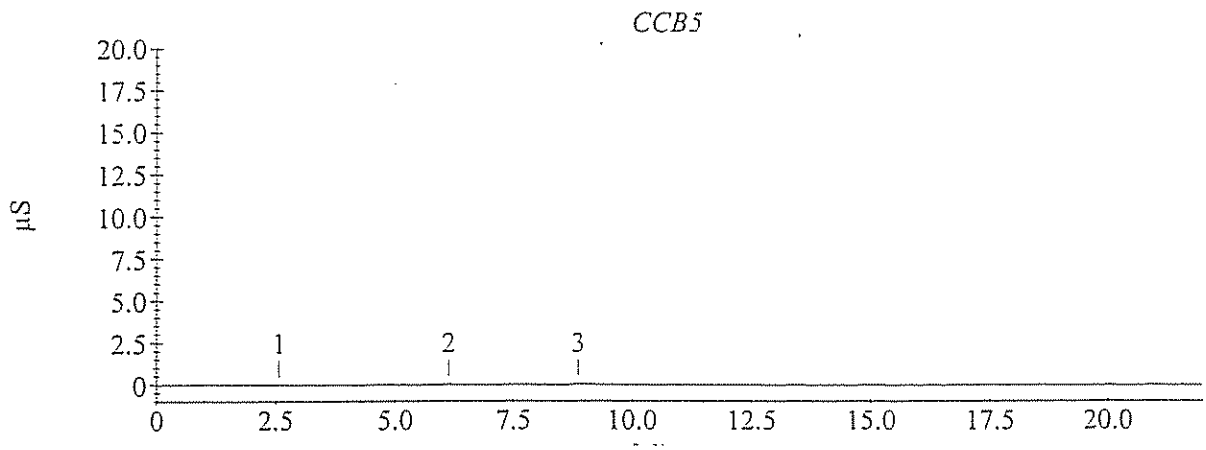
Sample Analysis Report

Sample Name : CCB5
Data File Name : I:\ICDATA\IC500\090328\090328__067.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/29/09 2:20:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.57	0.000	6319	380
2	Chloride	6.13	0.023	6586	409
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



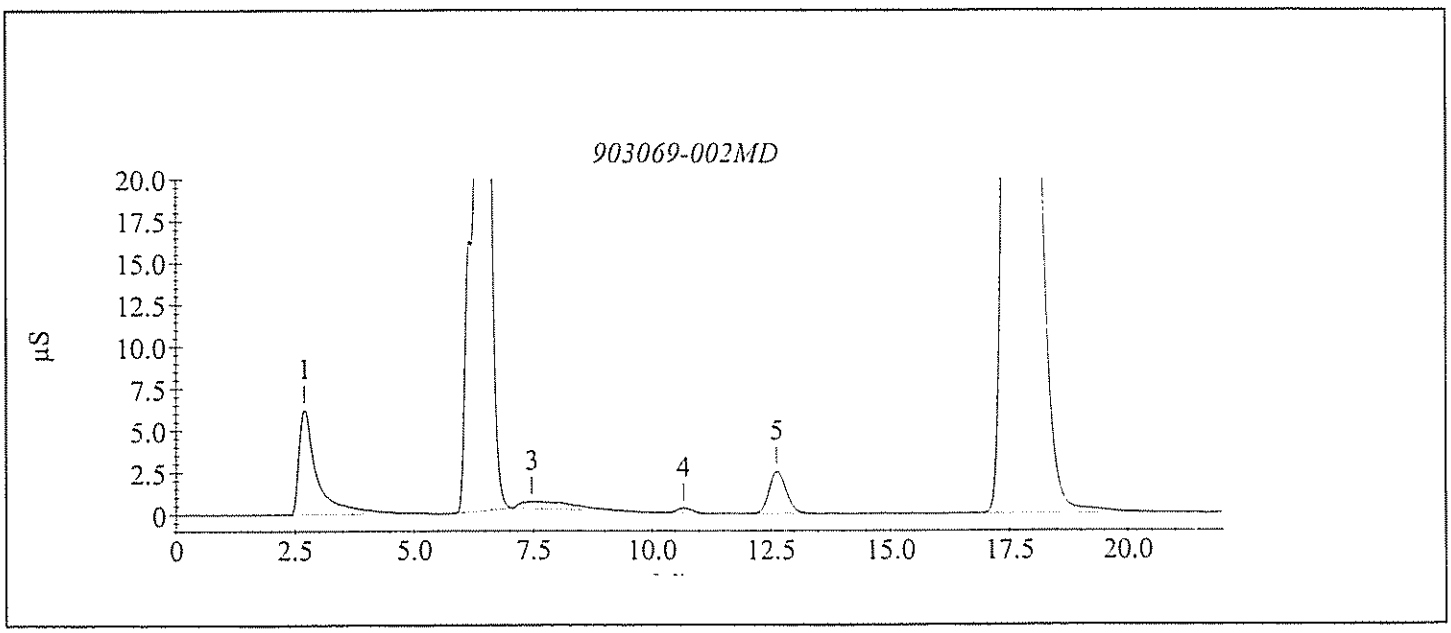
Sample Analysis Report

Sample Name : 903069-002MD
Data File Name : I:\ICDATA\IC500\090311\090311__065.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/12/09 3:40:33 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.298	1632461	62054
2	Chloride	6.47	16.558	14169938	725719
	Nitrite-N				
4	Bromide	10.67	0.199	66217	2983
5	Nitrate-N	12.63	0.320	623772	24862
	Phosphate-P				
6	Sulfate	17.63	63.059	38755869	1071751



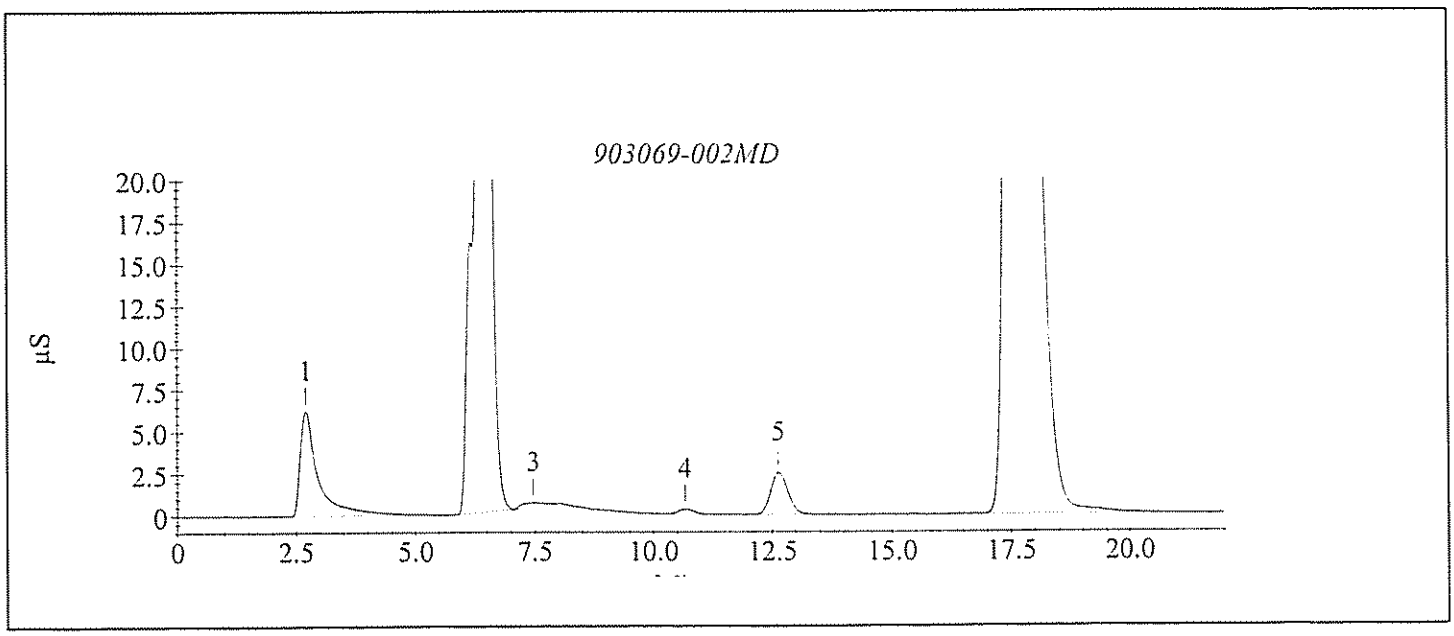
Sample Analysis Report

Sample Name : 903069-002MD
Data File Name : I:\ICDATA\IC500\090311\090311__065.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 3:40:33 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.70	0.000	1632461	62054
2	Chloride	6.47	12.119	14169938	725719
	Nitrite-N				
4	Bromide	10.67	2.064	66217	2983
5	Nitrate-N	12.63	1.368	623772	24862
	Phosphate-P				
6	Sulfate	17.63	46.614	38755869	1071751



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-096-1/3MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	22	
14797-55-8	Nitrate	1.2	
7727-37-9	Nitrite	1.3	

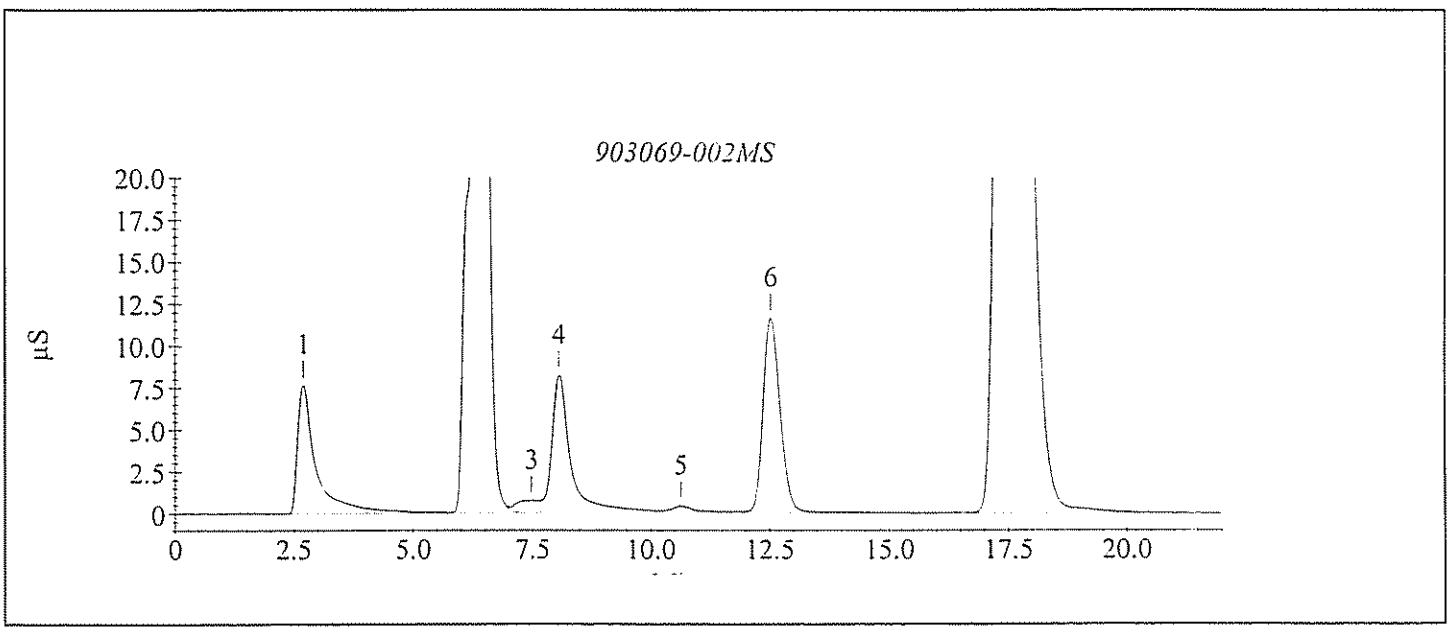
Sample Analysis Report

Sample Name : 903069-002MS
Data File Name : I:\ICDATA\IC500\090311\090311__066.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/12/09 4:05:42 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.648	2087535	76418
2	Chloride	6.43	17.560	15028534	712805
4	Nitrite-N	8.07	1.301	2258601	81603
5	Bromide	10.63	0.427	150021	3907
6	Nitrate-N	12.53	1.235	2881550	115590
	Phosphate-P				
7	Sulfate	17.50	62.095	38163583	1012963



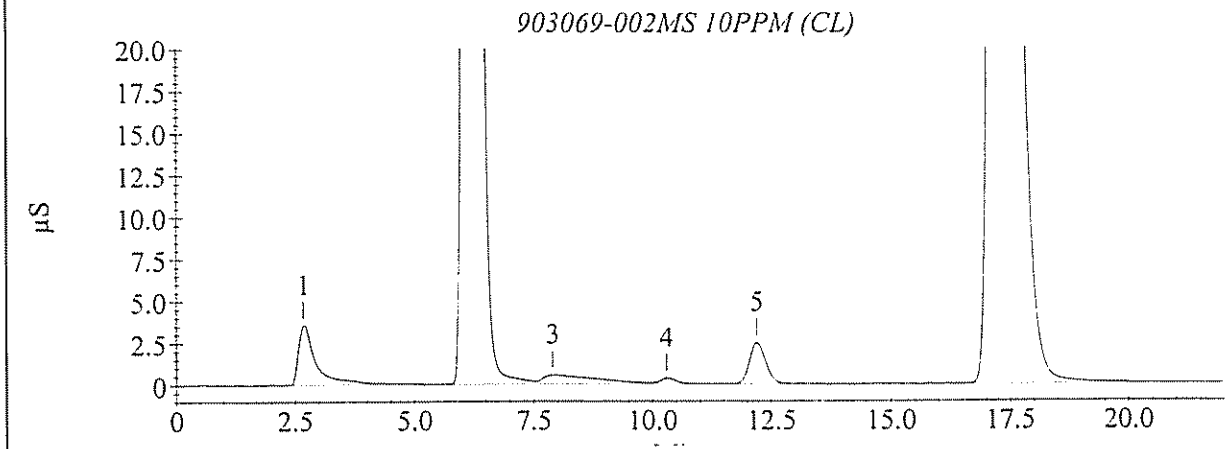
Sample Analysis Report

Sample Name : 903069-002MS 10PPM (CL)
Data File Name : I:\ICDATA\IC500\090328\090328__057.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 10:09:45 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	889256	34910
2	Chloride	6.27	22.225	28666536	1276009
3	Nitrite-N	7.90	-2.412	409977	5225
4	Bromide	10.30	2.048	77468	3270
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.30	37.474	36621102	1075606



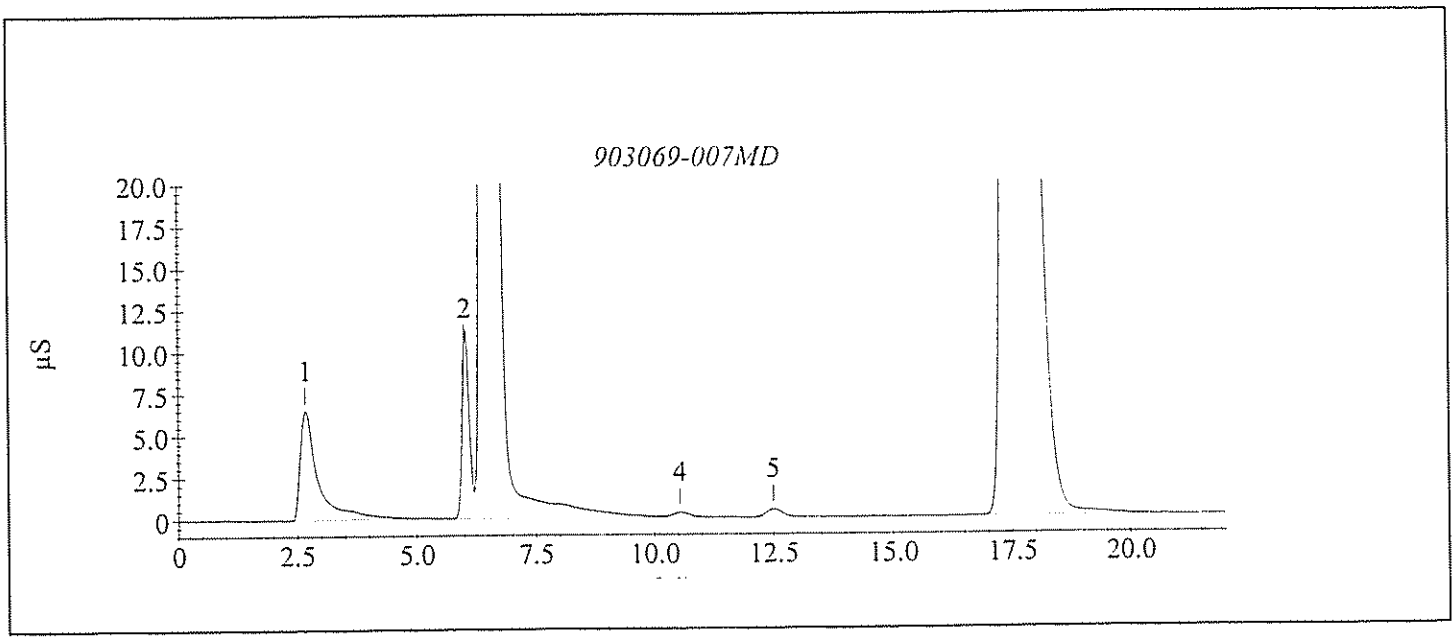
Sample Analysis Report

Sample Name : 903069-007MD
Data File Name : I:\ICDATA\IC500\090311\090311__075.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 7:52:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.355	1707041	64535
3	Chloride	6.60	44.678	38261326	2466120
	Nitrite-N				
4	Bromide	10.53	0.234	79075	2893
5	Nitrate-N	12.50	0.115	119526	4800
	Phosphate-P				
6	Sulfate	17.57	76.801	47204885	1339845



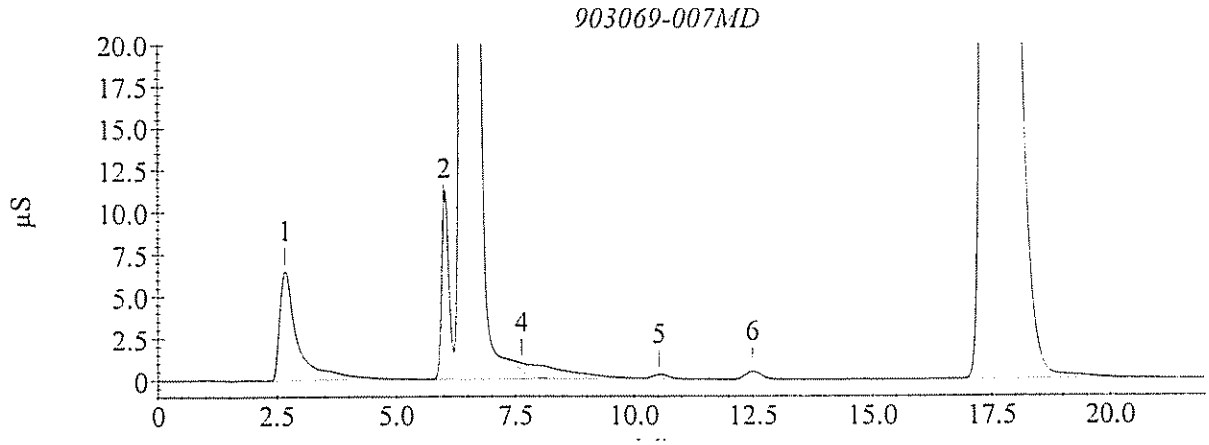
Sample Analysis Report

Sample Name : 903069-007MD
Data File Name : I:\ICDATA\IC500\090311\090311__075.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 7:52:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.549	1707041	64535
3	Chloride	6.60	29.802	37671527	2466014
	Nitrite-N				
5	Bromide	10.53	2.053	60523	2513
6	Nitrate-N	12.50	1.221	119526	4800
	Phosphate-P				
7	Sulfate	17.57	56.400	47204885	1339845



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-099-1/3MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/12/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/12/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	34	
14797-55-8	Nitrate	1.0	
7727-37-9	Nitrite	1.3	

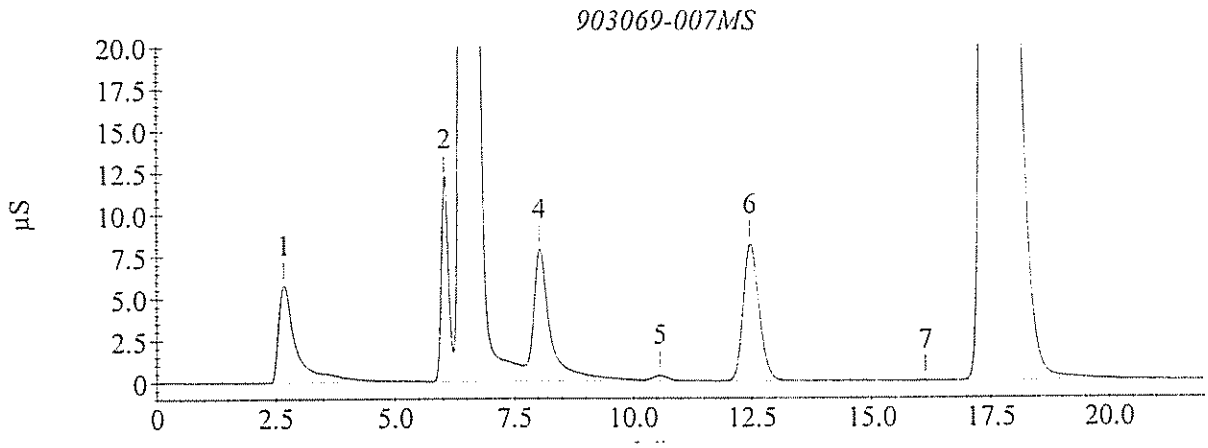
Sample Analysis Report

Sample Name : 903069-007MS
Data File Name : I:\ICDATA\IC500\090311\090311__076.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 8:17:13 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.197	1501201	57211
3	Chloride	6.60	44.896	38447326	2406519
4	Nitrite-N	8.03	1.152	1993765	78124
5	Bromide	10.57	0.212	71063	3082
6	Nitrate-N	12.47	0.833	1890946	80804
7	Phosphate-P	16.13	0.045	5056	212
8	Sulfate	17.57	77.908	47885882	1376513



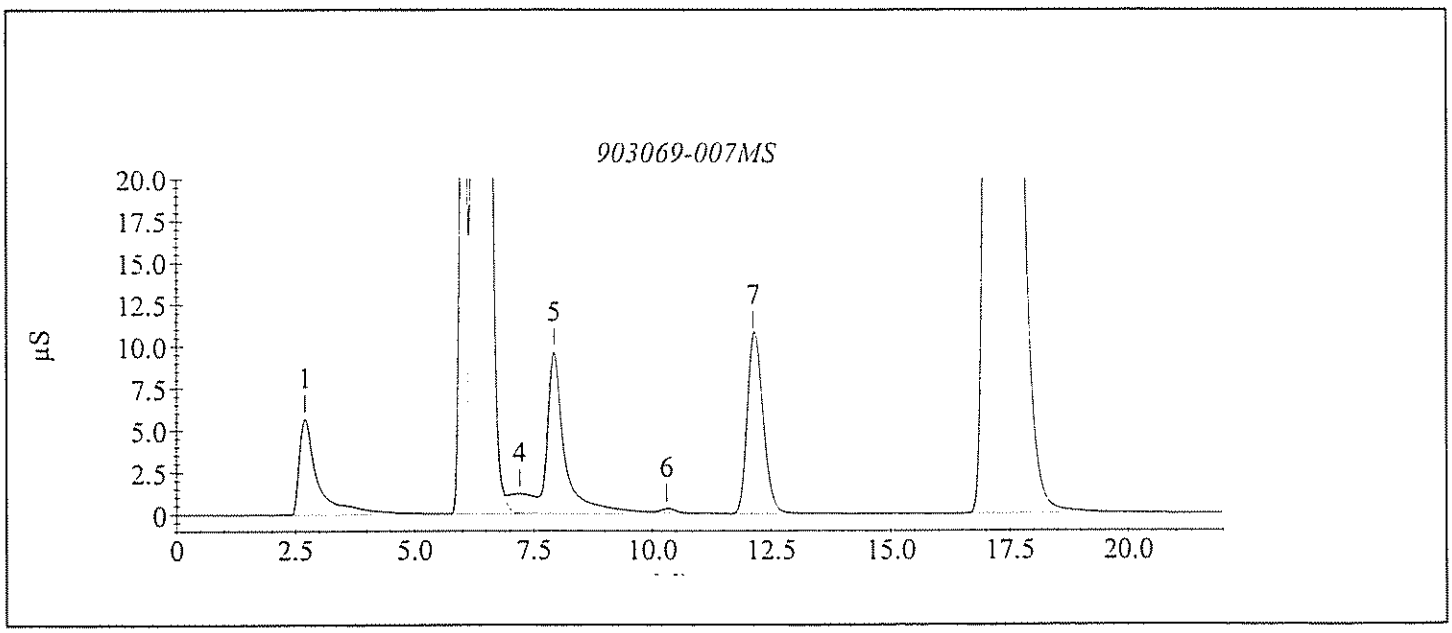
Sample Analysis Report

Sample Name : 903069-007MS (1.0 Z rerun)
Data File Name : I:\ICDATA\IC500\090328\090328__060.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/29/09 11:24:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.294	1578967	56618
2	Chloride	6.00	3.850	3503178	330426
5	Nitrite-N	7.93	1.344	2430556	95464
6	Bromide	10.30	0.194	69858	2797
7	Nitrate-N	12.13	1.052	2503992	105839
	Phosphate-P				
8	Sulfate	17.23	64.941	46496132	1340168



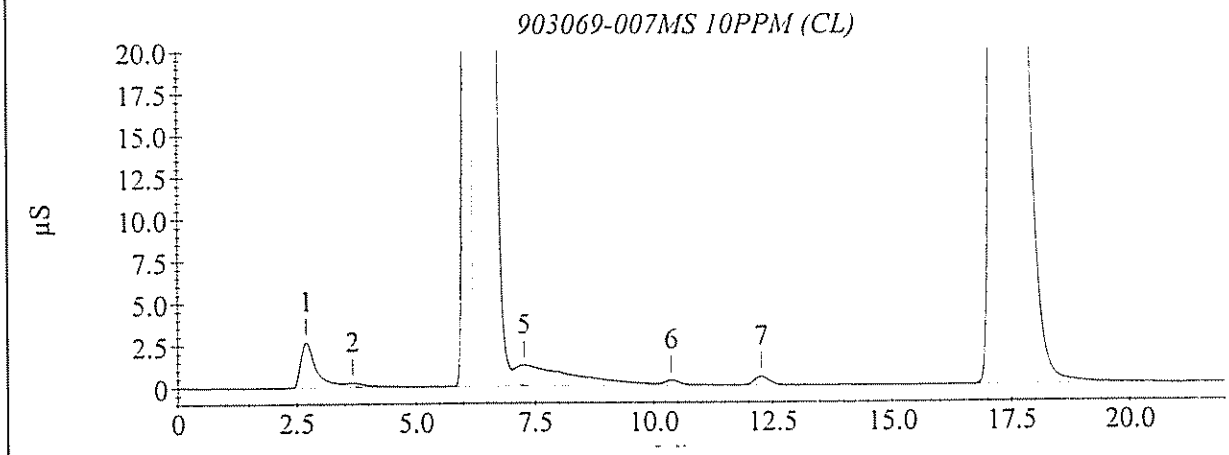
Sample Analysis Report

Sample Name : 903069-007MS 10PPM (CL)
Data File Name : I:\ICDATA\IC500\090328\090328__061.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 11:50:00 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.661	63053	1782
4	Chloride	6.50	33.550	44240728	2625206
	Nitrite-N				
6	Bromide	10.37	2.044	74692	3123
	Nitrate-N				
	Phosphate-P				
8	Sulfate	17.33	47.842	47231054	1428369



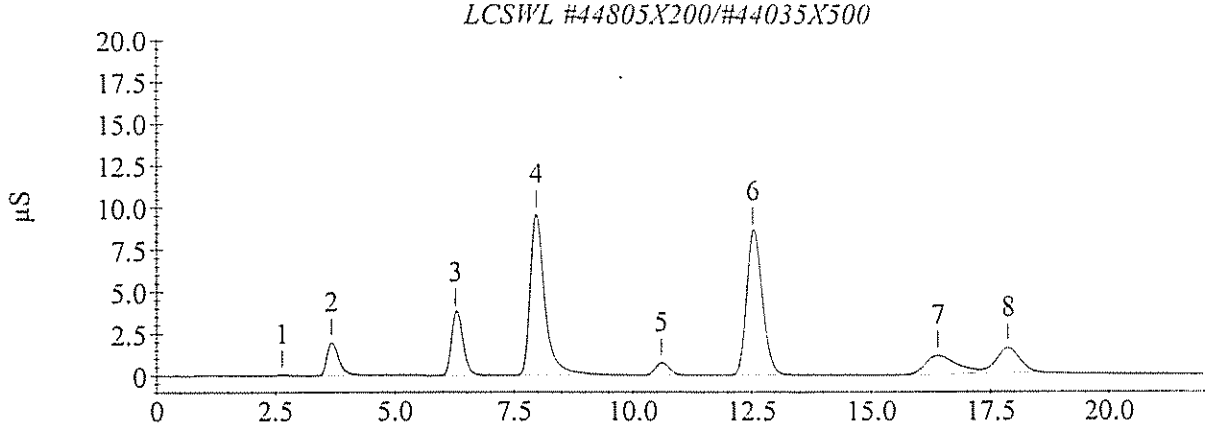
Sample Analysis Report

Sample Name : LCSWL #44805X200/#44035X500
Data File Name : I:\ICDATA\IC500\090311\090311__061.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/12/09 1:59:58 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.308	346967	19469
3	Chloride	6.27	0.790	660824	37278
4	Nitrite-N	7.97	1.200	2080299	95414
5	Bromide	10.60	0.441	154840	7382
6	Nitrate-N	12.53	0.866	1972211	85048
7	Phosphate-P	16.40	0.693	513277	11293
8	Sulfate	17.87	0.867	518562	14900



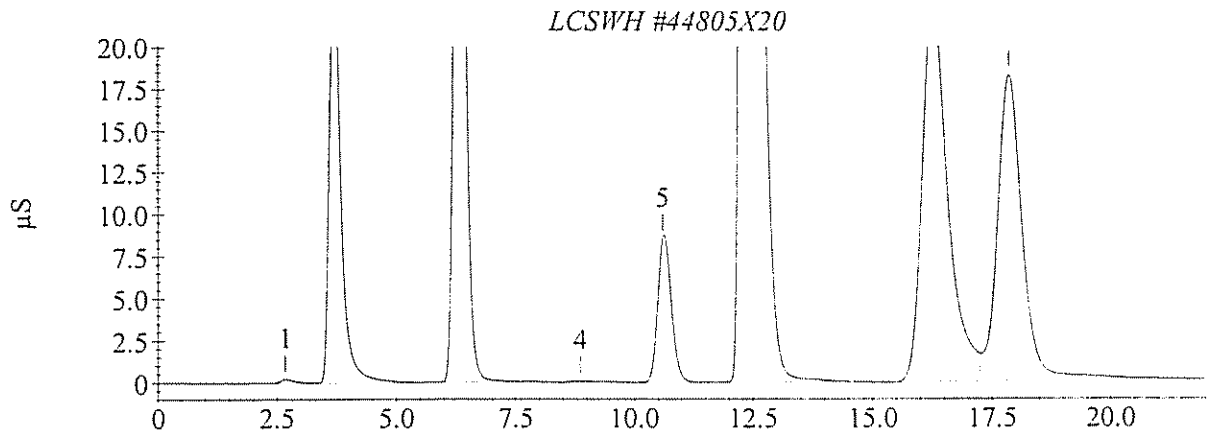
Sample Analysis Report

Sample Name : LCSWH #44805X20
Data File Name : I:\ICDATA\IC500\090311\090311__062.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/12/09 2:25:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	3.136	4223760	240948
3	Chloride	6.33	7.732	8340236	526228
4	Nitrite-N	8.87	-1.788	14977	612
5	Bromide	10.60	5.046	1725003	85280
6	Nitrate-N	12.37	9.081	27072071	1080047
7	Phosphate-P	16.27	8.908	8517788	228211
8	Sulfate	17.87	9.264	6507250	181550



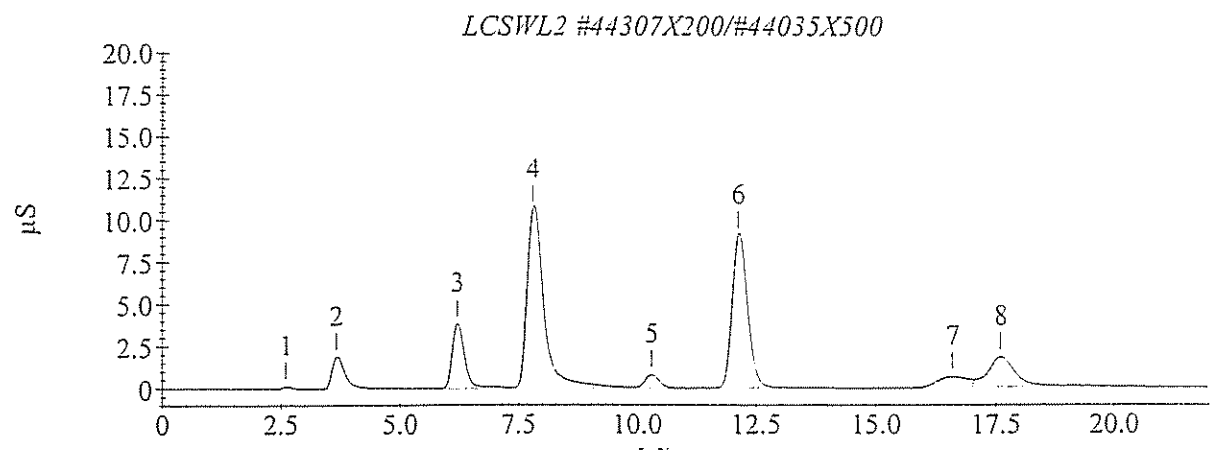
Sample Analysis Report

Sample Name : LCSWL2 #44307X200/#44035X500
Data File Name : I:\ICDATA\IC500\090328\090328__050.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/29/09 7:14:32 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.299	356254	18551
3	Chloride	6.20	0.791	708611	38274
4	Nitrite-N	7.80	1.479	2671714	105625
5	Bromide	10.30	0.455	168711	7906
6	Nitrate-N	12.13	0.869	2049820	90390
7	Phosphate-P	16.60	0.549	273077	6178
8	Sulfate	17.60	0.949	686163	17646



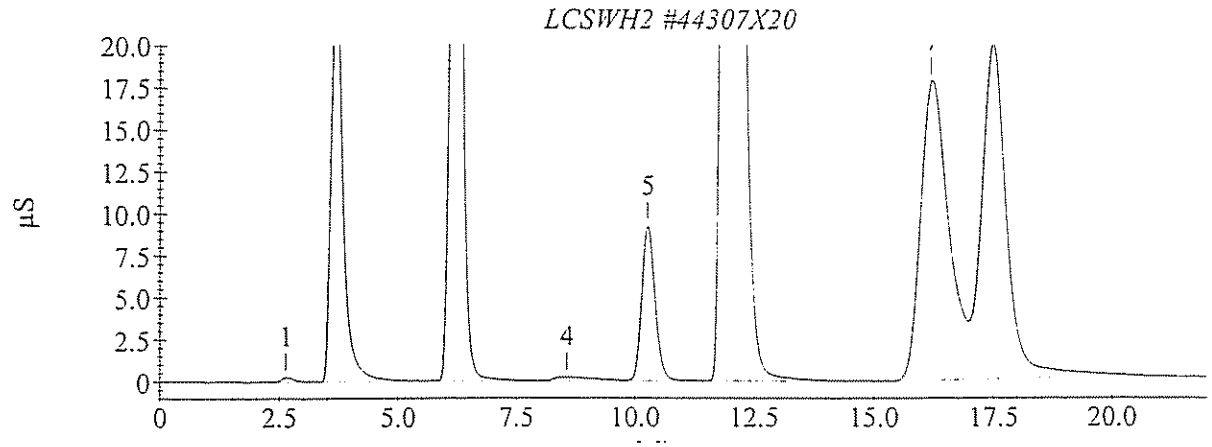
Sample Analysis Report

Sample Name : LCSWH2 #44307X20
Data File Name : I:\ICDATA\IC500\090328\090328__051.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 7:39:34 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	3.215	4191735	226874
3	Chloride	6.20	7.434	8324120	502986
4	Nitrite-N	8.57	-2.629	131026	2221
5	Bromide	10.27	4.969	1756648	91396
6	Nitrate-N	11.93	8.849	27432006	1137442
	Phosphate-P				
8	Sulfate	17.47	8.826	7303030	197522



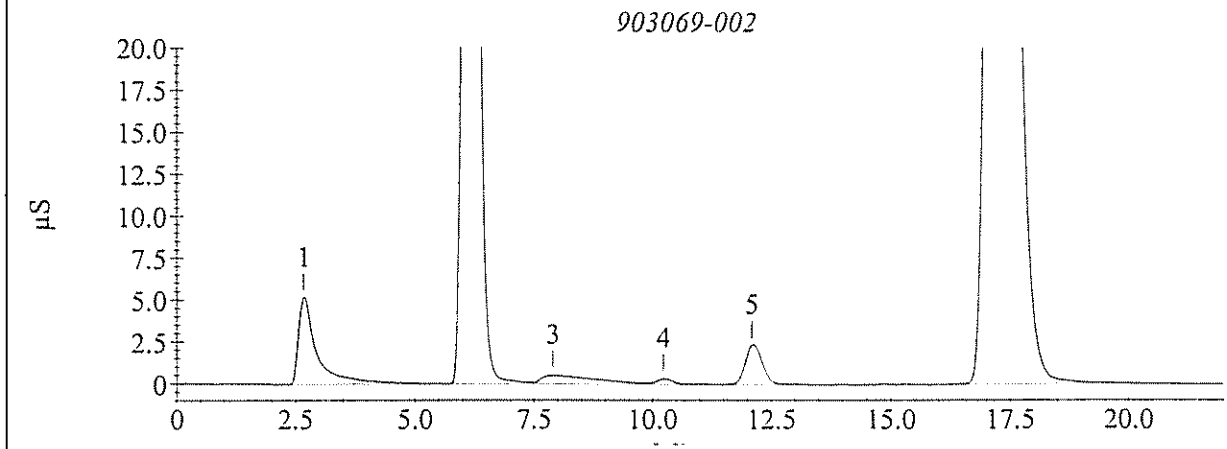
Sample Analysis Report

Sample Name : 903069-002
Data File Name : I:\ICDATA\IC500\090328\090328__052.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 8:04:37 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1386682	51286
2	Chloride	6.20	11.140	13420213	583941
3	Nitrite-N	7.90	-2.426	391670	4924
4	Bromide	10.23	2.039	72194	3132
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.23	37.161	36300823	1033696



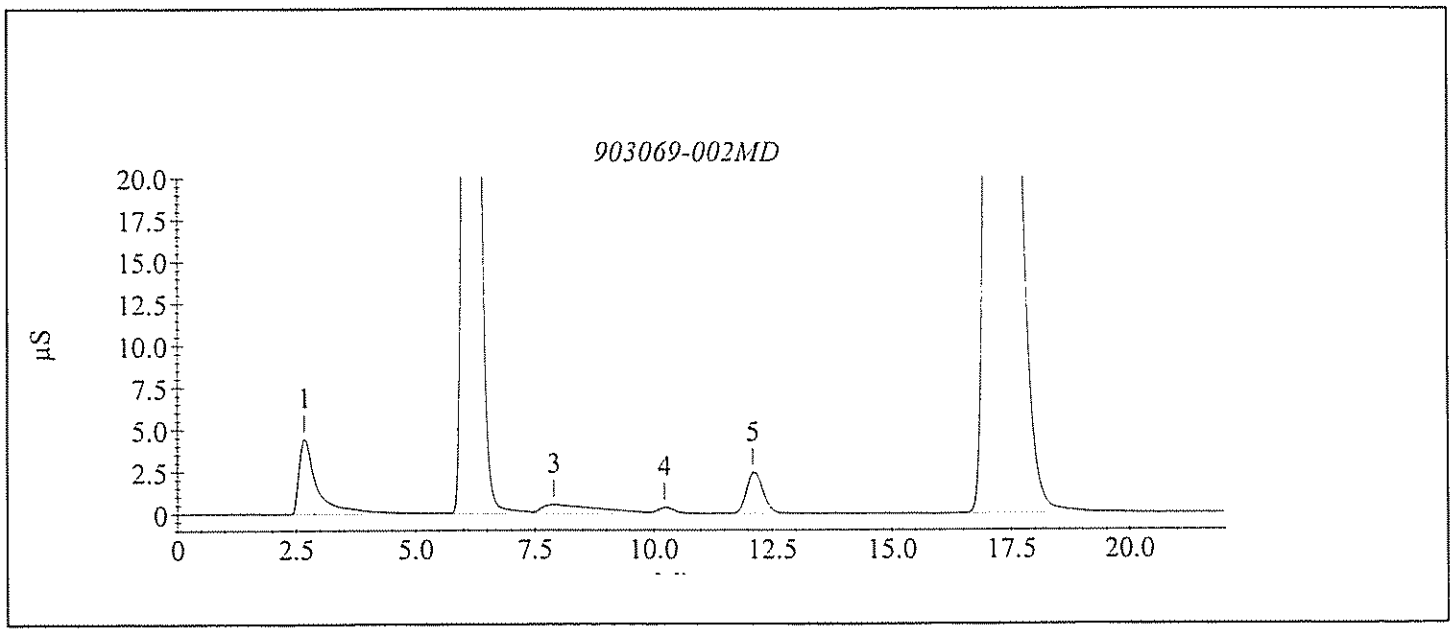
Sample Analysis Report

Sample Name : 903069-002MD
Data File Name : I:\ICDATA\IC500\090328\090328__053.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 8:29:39 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1230917	44317
2	Chloride	6.20	11.311	13655686	597031
3	Nitrite-N	7.90	-2.387	442501	5348
4	Bromide	10.23	2.078	94333	3644
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.23	37.676	36827203	1070212



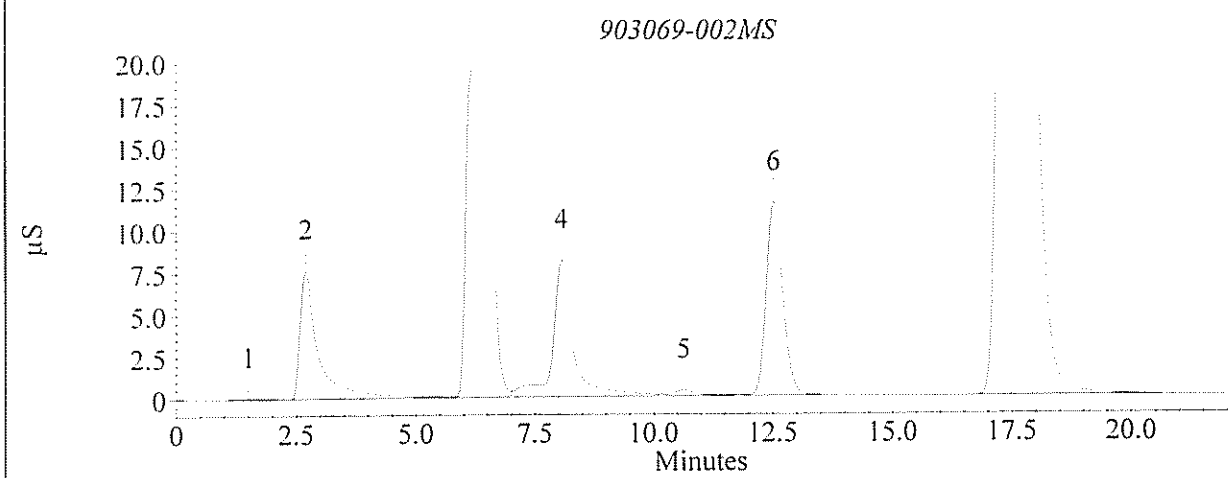
Sample Analysis Report

Sample Name : 903069-002MS
Data File Name : I:\ICDATA\IC500\090311\090311__066.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 4:05:42 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	2.70	1.802	2113295	76444
3	Chloride	6.43	12.765	15029469	712940
4	Nitrite-N	8.07	-0.175	2495491	81602
5	Bromide	10.63	2.175	128270	3692
6	Nitrate-N	12.53	2.009	2823533	115217
7	Phosphate-P Sulfate	17.50	45.928	38163583	1012963



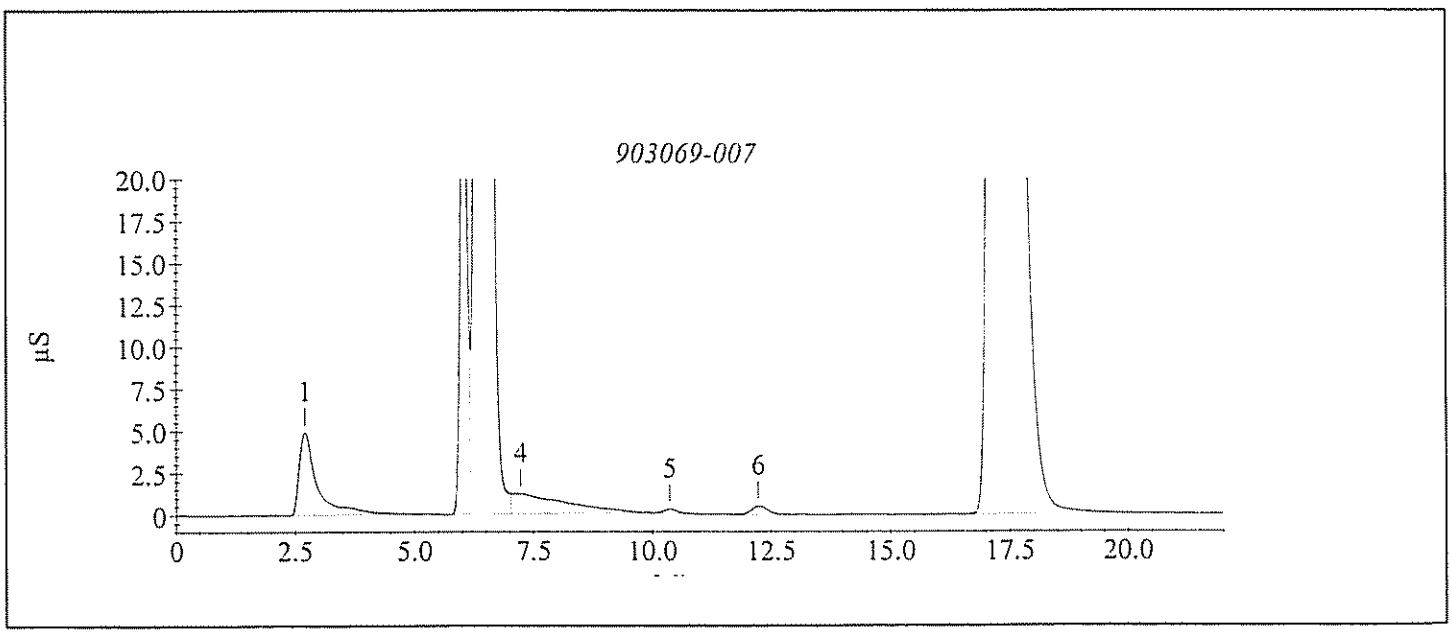
Sample Analysis Report

Sample Name : 903069-007
Data File Name : I:\ICDATA\IC500\090328\090328__058.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/29/09 10:34:48 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.70	0.000	1281130	49068
3	Chloride Nitrite-N	6.50	25.469	33126901	2030020
5	Bromide Nitrate-N Phosphate-P	10.37	1.997	48064	2387
7	Sulfate	17.30	47.666	47051260	1375525



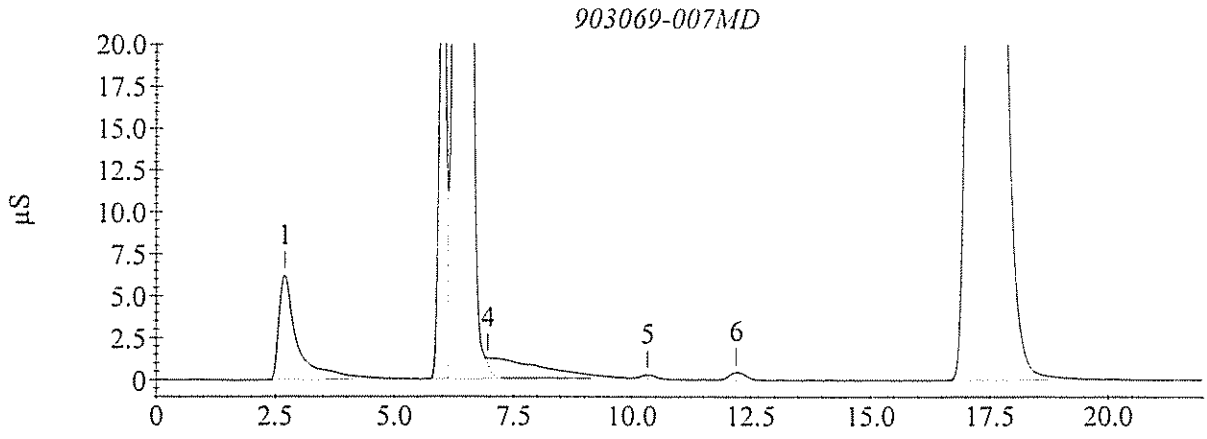
Sample Analysis Report

Sample Name : 903069-007MD
Data File Name : I:\ICDATA\IC500\090328\090328__059.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/29/09 10:59:52 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.70	0.000	1676806	61776
3	Chloride Nitrite-N	6.47	24.896	32339366	1902600
5	Bromide Nitrate-N Phosphate-P	10.33	1.997	48023	2218
7	Sulfate	17.27	46.501	45858789	1295095



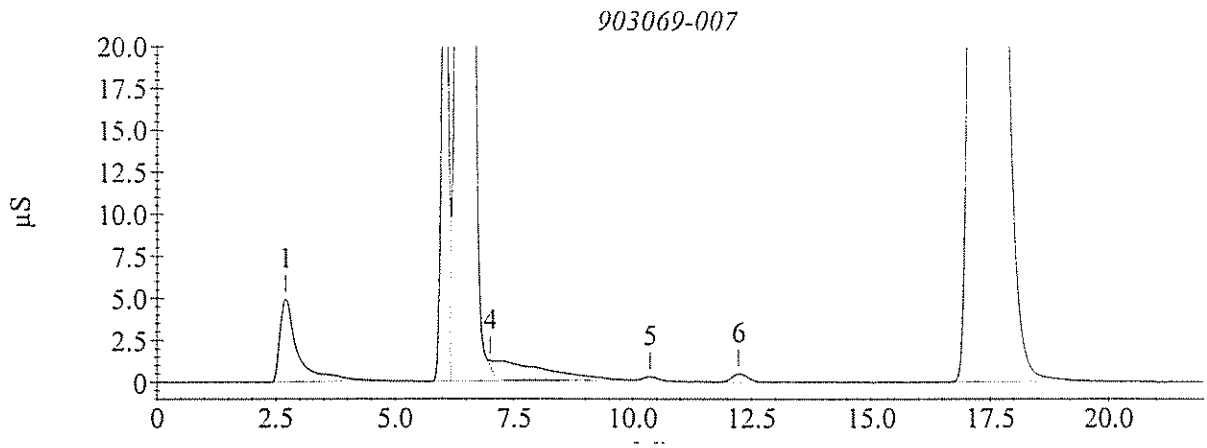
Sample Analysis Report

Sample Name : 903069-007
Data File Name : I:\ICDATA\IC500\090328\090328__058.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/29/09 10:34:48 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.052	1281130	49068
3	Chloride	6.50	36.342	33185807	2030053
	Nitrite-N				
5	Bromide	10.37	0.016	2616	31
6	Nitrate-N	12.23	0.094	119463	4993
	Phosphate-P				
7	Sulfate	17.30	65.717	47051260	1375525



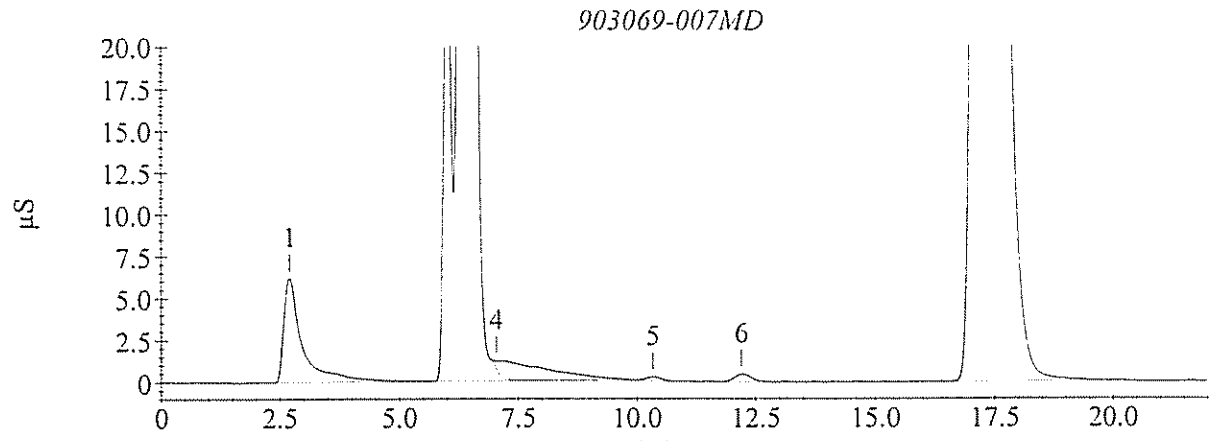
Sample Analysis Report

Sample Name : 903069-007MD
Data File Name : I:\ICDATA\IC500\090328\090328__059.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/29/09 10:59:52 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.374	1676806	61776
3	Chloride	6.47	35.468	32387363	1902600
	Nitrite-N				
5	Bromide	10.33	0.140	49492	2242
6	Nitrate-N	12.20	0.091	111633	4582
	Phosphate-P				
7	Sulfate	17.27	64.051	45858789	1295095



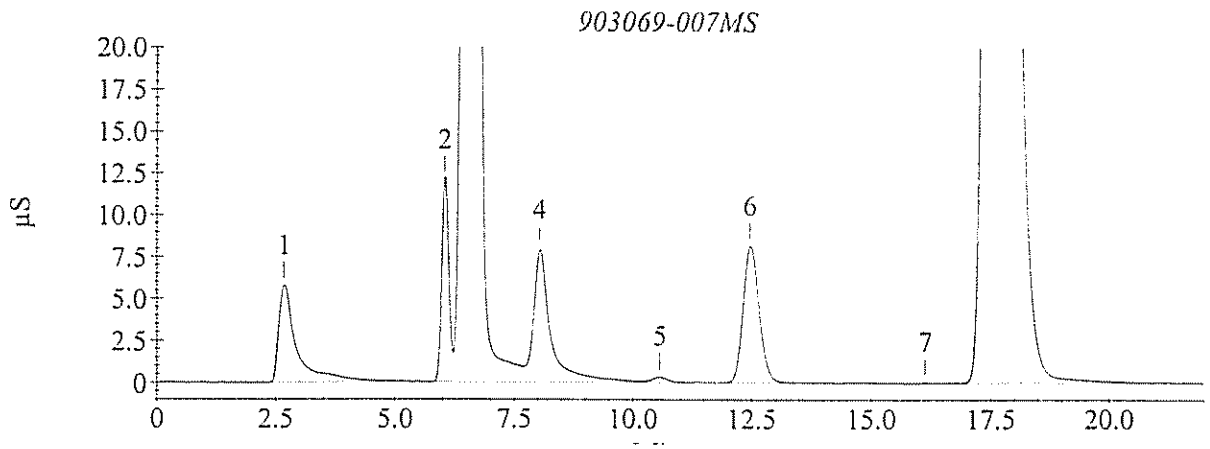
Sample Analysis Report

Sample Name : 903069-007MS
Data File Name : I:\ICDATA\IC500\090311\090311__076.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/12/09 8:17:13 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.421	1501201	57211
3	Chloride	6.60	30.386	38447326	2406519
4	Nitrite-N	8.03	-0.501	1993765	78124
5	Bromide	10.57	2.072	71063	3082
6	Nitrate-N	12.47	1.737	1890946	80804
7	Phosphate-P	16.13	1.835	5056	212
8	Sulfate	17.57	57.188	47885882	1376513



ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	F, Cl, NO_2-N, Br, NO_3-N, PO_4, SO_4
Analysis Method:	E300
Backpressure:	2031 psi Conductivity: 23.068 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	—

Guard Column ID:	AG9-HC # 012301
Analysis Column ID:	AS9-HC # 012518
ATC ID:	N/A

ICAL Method File: 080917L-300.met/080917H-300.met ICAL Date: 9/17/08 Analyst: JCSA

Seq. ID. 080917-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
080917-001.dxd	Rinse				
2	Rinse				
3	Std1 - Cal Blank	1	Std	9/17/08	080917L
4	Std 2 - 0.10 mg/L	1			
5	Std 3 - 0.25 mg/L	1			
6	Std 4 - 0.50 mg/L	1			
7	Std 5 - 1.00 mg/L	1			
8	Std 6 - 2.50 mg/L	1			↓
9	Std 1 - 2.50 mg/L	1			080917H
10	Std 2 - 5.00 mg/L	1			
11	Std 3 - 10.0 mg/L	1			
12	Std 4 - 15.0 mg/L	1			
13	Std 5 - 25.0 mg/L	1			
14	Std 6 - 50.0 mg/L	1			↓
15	ICVL - 1.25 mg/L	1			
16	ICVH - 20.0 mg/L	1			
17	ICB	1	↓		
18	LCSWL #43967x125 / #44035x500	125/500			
19	LCSWH #43967 x 10	10	↓	↓	
20	809080-001	1	H_2O	9/18/08	
21	-001MD	1			
22	-001MS	1	↓		
23	CCVL1 - 1.25 mg/L	1	Std		
24	CCVH1 - 20.0 mg/L	1			
080917-025.dxd	CCB1	1	↓	↓	

Remarks

★ #43967 N.V.'s (mg/L)

F = 10.6
Cl = 26.4
NO_3-N = 82.4
SO_4 = 202

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate eluent	43991 9mM 8/25/08
Mixed Anions Stock Std	43504 100 PPM 6/26/08
Mixed Anions QC Std	43967 ★ exp's 7/1/10
Nitrate QC Std	44035 732 mg/L exp's 8/1/10
Mixed Anions ~~QC~~ Std (ICV) Stock	44123 100 ppm 9/17/08

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	F, Cl, SO_4, Br, NO_3-N, PO_4-P, NH_2-N
Analysis Method:	E300
Backpressure:	2200 psi Conductivity: 23.741 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #B13201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090381-300-0.met / 090318H-300-0.met ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090318-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090318-001.dxd	Rinse	—	—	—	
2	ICVLA - 1.25 mg/L	1	Std	3/18/09	
3	ICVLB - 1.25 mg/L	1			
4	ICB	1			
5	Std1 - BLK	1			090318L
6	Std2 - 0.10 mg/L	1			
7	Std3 - 0.25 mg/L	1			
8	Std4 - 0.50 mg/L	1			
9	Std5 - 1.00 mg/L	1			
10	Std6 - 2.50 mg/L	1			↓
11	Std1 - 2.50 mg/L	1			090318H
12	Std2 - 5.00 mg/L	1			
13	Std3 - 10.0 mg/L	1			
14	Std4 - 15.0 mg/L	1			
15	Std5 - 25.0 mg/L	1			
16	Std6 - 50.0 mg/L	1			↓
17	ICVL - 1.25 mg/L	1			
18	ICVH - 20.0 mg/L	1			
19	ICB	1	↓		
20	BLK903095	1	wipe		
21	BLS903095	1			
22	903095-001	1			
23	BLK903105	1			
24	BLS903106	1			
25	903105-001	1			
26	↓ -002	1			
090318-027.dxd	↓ -003	1	↓	3/18/09	

Remarks

★ # 45307 T.V.'s (mg/L)
Cl: 157.8
NO_3-N: 187.2
SO_4: 168.6

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45373 9 mM 3/12/09
Mixed Anions Stock Std (Working)	45405 100 mg/L 3/18/09
Mixed Anions Stock std (ICV/CCV)	45026 100 mg/L 1/26/09
Mixed Anions QC std	45307 ★ exp's 11/1/11
Nitrate QC std	44035 732 mg/L exp's 8/1/11

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N, SO_4
Analysis Method:	E300
Backpressure:	2122 psi Conductivity: 23.662 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	
Analysis Column ID:	SAG pkg
ATC ID:	

ICAL Method File: 080917L-300-0.met/080917H-300-0.met ICAL Date: 9/17/08 Analyst: JCSA

Seq. ID. 090311-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090311-055.dxd	902125-016 200X	200	H_2O	3/12/09	
56	-017 10X	10	↓	↓	
57	-017 400X	400	↓	↓	
58	CCVL 1.25 mg/L	1	Std	↓	
59	CCVH 20.0 mg/L	1	↓	↓	
60	CCB5	1	↓	↓	
61	LCSWL #44805x200/#44635x50	200/50	↓	↓	
62	LCSWH #44805x20	20	↓	↓	
63	903069-001	1	H_2O	↓	
64	-002	1	↓	↓	
65	-002MD	1	↓	↓	
66	-002MS	1	↓	↓	
67	-003	1	↓	↓	
68	-004	1	↓	↓	
69	-005	1	↓	↓	
70	-006	1	↓	↓	
71	CCVL6 1.25 mg/L	1	Std	↓	
72	CCVH6 20.0 mg/L	1	↑	↓	
73	CCB6	1	↓	↓	
74	903069-007	1	H_2O	↓	
75	-007MD	1	↓	↓	
76	-007MS	1	↓	↓	
77	-008	1	↓	↓	
78	-009	1	↓	↓	
79	902136-61	1	↓	↓	
80	-001MD	1	↓	↓	
090311-081.dxd	-001MS 10 ppm(L)	1	↓	3/12/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
Cont. on p. 28		

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N, SO_4
Analysis Method:	E300
Backpressure:	2122 psi Conductivity: 23.667 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	—
Eluent level check:	✓

Guard Column ID:	
Analysis Column ID:	See p. 24
ATC ID:	

ICAL Method File: 080917L-300-D.mth / 080917H-300-D.mth ICAL Date: 9/17/08 Analyst: JCS

Seq. ID. 090311-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090311-082.dxd	902136-001 10X	10	H_2O	3/12/09	
83	↓ -001MD 10X	10	↓	↓	
84	CCVL7-1.25 mg/L	1	Std	3/12/09	
85	CCVH7-20.0 mg/L	1		3/13/09	
86	CCB7	1	↓		
87	902136-001MS 10X ppm(SO_4)	10	H_2O		
88	-002	1			
89	-002MD	1			
90	-002MS 10X ppm(Cl)	1			
91	-002 10X	10			
92	-002MD 10X	10			
93	-002MS 10X ppm(NO_3)	10			
94	-005 10X	10			
95	-005 500X	500			
96	↓ -006 10X	10	↓		
97	CCVH8-20.0 mg/L	1	Std		
98	CCB8	1	↓		
99	902136-006 500X	500	H_2O		
100	-014 5X	5			
101	↓ -015 5X	5	↓		
102	CCVH9-20.0 mg/L	1	Std		
090311-103.dxd	CCB9	1	↓	3/13/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
	See p. 24	

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N
Analysis Method:	E300
Backpressure:	2187 psi Conductivity: 23.814 µS
Injection Volume:	200µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #013201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.met/090318H-300-0.met ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090328-300..sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090328-001.dxd	Rinse	—	—	—	
2	ICVL-1.25mg/L	1	Std	3/28/09	
3	ICVH-20.0mg/L	1	↓	↓	
4	ICB	1	↓	↓	
5	903218-001	1	H_2O	↓	
6	-001MD	1	↓	↓	
7	-001MS	1	↓	↓	
8	-002	1	↓	↓	
9	-002MD	1	↓	↓	
10	-002MS	1	↓	↓	
11	-003	1	↓	↓	
12	-007	1	↓	↓	
13	-008	1	↓	↓	
14	-013	1	↓	↓	
15	CCVL1-1.25mg/L	1	Std	↓	
16	CCVH1-20.0mg/L	1	↓	↓	
17	CCB1	1	↓	↓	
18	903218-004	1	H_2O	↓	
19	-011	1	↓	↓	
20	-012	1	↓	↓	
21	-014	1	↓	↓	
22	-006	1	↓	↓	
23	-005	1	↓	↓	
24	-015	1	↓	↓	
25	-009	1	↓	↓	
26	-010	1	↓	↓	
090328-027.dxd	LCSWL1 #45307x200/#44035x500	200/500	Std	3/28/09	

Remarks

★ #45307 I.V.'s (mg/L)

Cl = 157.8

NO_3 = 187.2

$

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45487 9mM 3/26/09
Mixed Anion Stock Std	45325 100mg/L 3/5/09
Mixed Anion QC Std	#45307 ★ exp's 11/1/11
Nitrite QC Std	~~#44035~~ #44035 732mg/L exp's 8/1/10
Cl Stock Std	43087 1000mg/L exp's 12/1/09

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: **Dionex 500** Reviewed By:_____ Review Date: _____

Analytes(s):	Cl, NO_3-N, NO_2-N
Analysis Method:	E300.1
Backpressure:	2187 psi Conductivity: 23.84 µS
Injection Volume:	200 µL
Gas pressure check:	~
Sparge the eluents:	—
Eluent level check:	~

Guard Column ID:	
Analysis Column ID:	see p. 51
ATC ID:	

ICAL Method File: 090318I-300-0.met/090318H-300-0.met ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090328-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090328-023.clxd	CCVL2-0.25 mg/L	1	Std	3/28/09	
29	CCVH2-20.0 mg/L	1	↓	↓	
30	<CB2	1	↓		
31	LCSWH1 #45307x20	20	↓		
32	903219-001	1	H_2O		
33	-001MD	1	↓	↓	
34	-001MS	1		3/28/09	
35	-002	1		3/29/09	
36	-002MD	1		↓	
37	-002MS	1			
38	-003	1			
39	-004	1			
40	↓ -005	1	↓		
41	CCVL3-1.25 mg/L	1	Std		
42	CCVH3-20.0 mg/L	1	↓		
43	<CB3	1	↓		
44	903219-006	1	H_2O		
45	-007	1	↓		
46	-008	1			
47	-009	1			
48	-010	1			
49	↓ -011	1	↓		
50	LCSWL2 #45307x200/#44035x500	200/500	Std		
51	LCSWH2 #45307x20	20	↓		
52	903069-002	1	H_2O		
53	-002MD	1	↓	↓	
090328-051.clxd	CCVL4-1.25 mg/L	1	Std	3/29/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
	See p. 51	

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date: _____

Analytes(s):	Cl, NO_3-N, NO_2-N
Analysis Method:	E300
Backpressure:	2187 psi Conductivity: 23-84 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	—
Eluent level check:	—

Guard Column ID:	
Analysis Column ID:	AG9-HC, AS9-HC
ATC ID:	

ICAL Method File: 090918-E-300-C.met / 090918H-300-C.met ICAL Date: 9/18/09 Analyst: JCSA

Seq. ID. 090328-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090328-055.dxd	CCVH4 ~~2.5~~ 20.0 mg/L	1	Std	3/29/09	
56	CCB4	1	↓		
57	903069-002 MS 10ppm (Cl)	1	H_2O		
58	903069-007	1			
59	-007MD	1			
60	-007MS	1			
61	-007MS 10ppm (Cl)	1			
62	903098-012	1			
63	-012MD	1			
64	-012MS 10ppm (Cl)	1	↓		
65	CCVLS-1.25 mg/L	1	Std		
66	CCVHS-20.0 mg/L	1		↓	
090328-067.dxd	CCBS	1	↓	3/29/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
	see p. 54	

SAMPLE DATA PACKAGE

RSK I75

GPL Laboratories, LLLP

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary
   (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW40-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903069-002-070-2/6MSD Matrix : WATER Analysis Date : 03/23/2009

Compound	Spike Added (ug/L) MS	Spike Added (ug/L) MSD	CONCENTRATION (ug/L) Sample	CONCENTRATION (ug/L) MS	CONCENTRATION (ug/L) MSD	%RECOVERY MS	%RECOVERY MSD	% RPD	RPD Limit	QC Limits
Ethane	310	310	0.0	260	270	84	87	4	25	80-120
Ethene	290	290	0.0	240	240	83	83	0	25	80-120
Methane	160	160	200	270	240	44*	25*	55*	25	80-120

3/26/09

714 of 887

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 0 Out of 6 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name : GPL Laboratories SDG NO : 903069 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903069-007-064-2/6MSD Matrix : WATER Analysis Date : 03/24/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	3100	3100	0.0	2700	2700	87	87	0	25	80-120
Ethene	2900	2900	0.0	2400	2400	83	83	0	25	80-120
Methane	1600	1600	2100	3400	3200	81	69 *	16	25	80-120

#Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 1 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108830

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	G262595.D	SDG NO :	903069
Date Analyzed	03/23/2009	Lab Sample ID :	BLK108830
GC Column :	ID. RTX_VC	Time Analyzed :	12:17

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW02-0309	903069-007-063-1/6	G262613.D	17:26
OU1-16GW02-0309DL	903069-007-064-2/6	G262615.D	17:58
OU1-16GW03-0309	903069-004-033-1/2	G262607.D	15:49
OU1-16GW03-0309DL	903069-004-034-2/2	G262610.D	16:36
OU1-16GW04-0309	903069-006-037-1/2	G262612.D	17:08
OU1-16GW04-0309DL	903069-006-038-2/2	G262614.D	17:42
OU1-16GW09-0309	903069-001-043-1/2	G262598.D	13:02
OU1-16GW40-0309	903069-002-069-1/6	G262599.D	13:21
OU1-16GW40-0309DL	903069-002-070-2/6	G262601.D	14:02
OU1-16GW40-0309MS	903069-002-070-2/6MS	G262602.D	14:29
OU1-16GW40-0309MSD	903069-002-070-2/6MSD	G262603.D	14:48
OU1-16GW41-0309	903069-003-031-1/2	G262606.D	15:34
OU1-16GW41-0309DL	903069-003-032-2/2	G262609.D	16:21
OU1-16GW42-0309	903069-005-035-1/2	G262608.D	16:05
OU1-16GW42-0309DL	903069-005-036-2/2	G262611.D	16:54

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108831

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Lab File ID :	G262618.D	SDG NO :	903069
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108831
GC Column :	ID. RTX_VC	Time Analyzed :	07:28

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW02-0309MS	903069-007-064-2/6MS	G262619.D	07:42
OU1-16GW02-0309MSD	903069-007-064-2/6MSD	G262620.D	07:56
OU1-MW12-0309	903069-009-041-1/2	G262622.D	08:32
OU1-MW12-0309DL	903069-009-042-2/2	G262624.D	09:04
OU1-MW48-0309	903069-008-039-1/2	G262621.D	08:13
OU1-MW48-0309DL	903069-008-040-2/2	G262623.D	08:50

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-001-043-1/2
Sample Volume :	10	Lab File ID :	G262598.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	17	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262598.D Vial: 17
Acq On : 23 Mar 2009 13:02 Operator: TG
Sample : 903069-001 Inst : GC-G
Misc : OUI-16GW09-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 13:11 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) T Methane	0.63	2673	17.098	ppb
2) T Ethane	0.00	0	N.D.	ppb
3) T Ethylene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

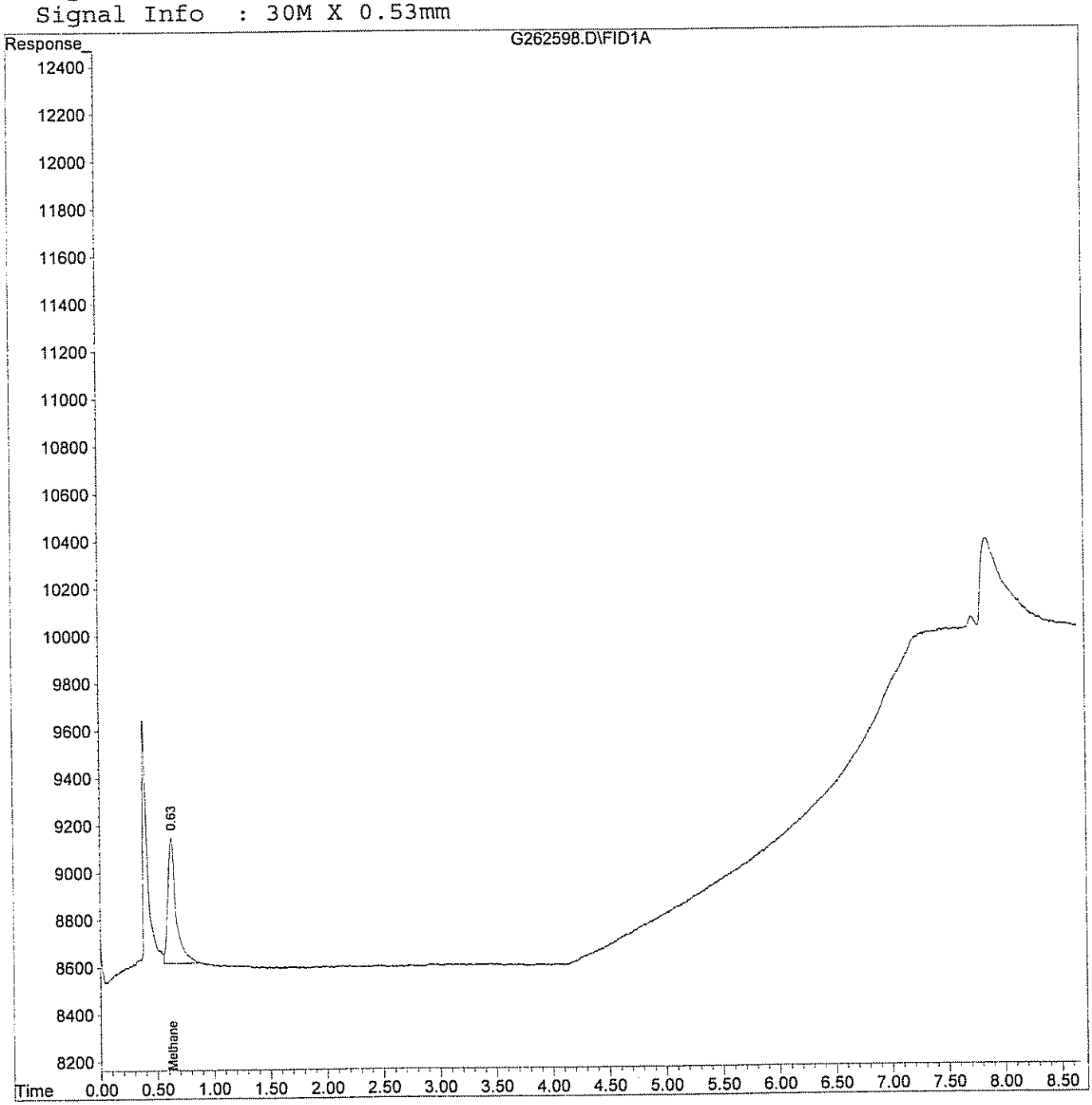
Quantitation Report

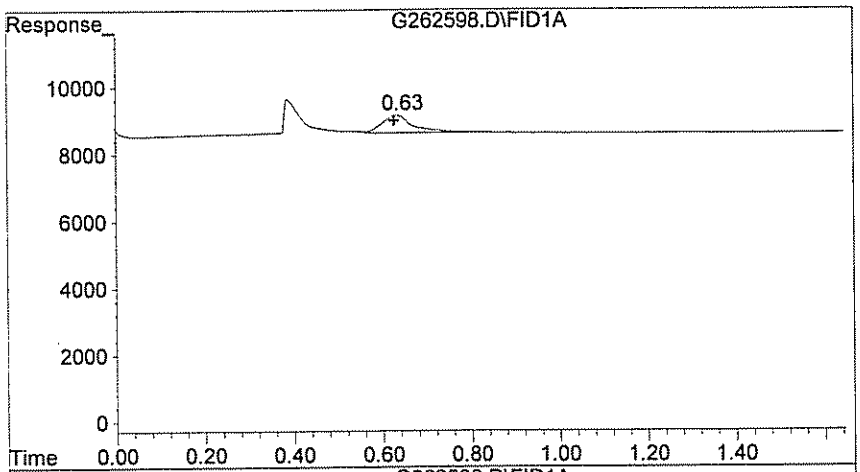
Data File : H:\GCDATA\G\032309\G262598.D
Acq On : 23 Mar 2009 13:02
Sample : 903069-001
Misc : OUI-16GW09-0309,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 23 13:11 2009 Quant Results File: RSK0320.RES

Vial: 17
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

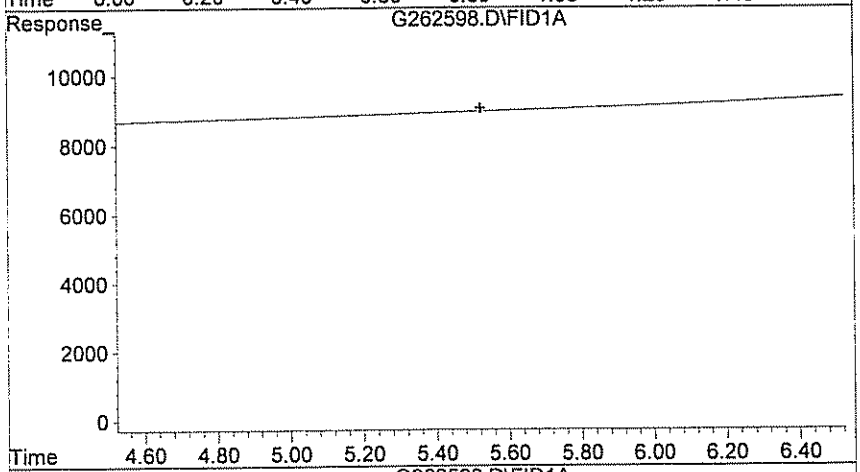
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





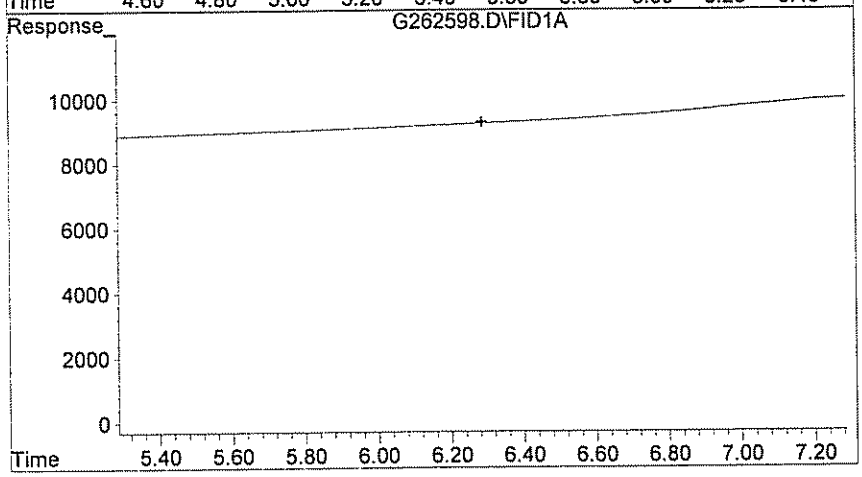
#1 Methane

R.T.:	0.633 min
Delta R.T.:	0.007 min
Response:	2673
Conc:	17.10 ppb



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-069-1/6
Sample Volume :	10	Lab File ID :	G262599.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	150	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262599.D Vial: 18
Acq On : 23 Mar 2009 13:21 Operator: TG
Sample : 903069-002 Inst : GC-G
Misc : OUI-FB-031009,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 13:31 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	23628	151.136	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual
G262599.D RSK0320.M Wed Mar 25 11:07:00 2009 W28_IOANNIDE Page 1

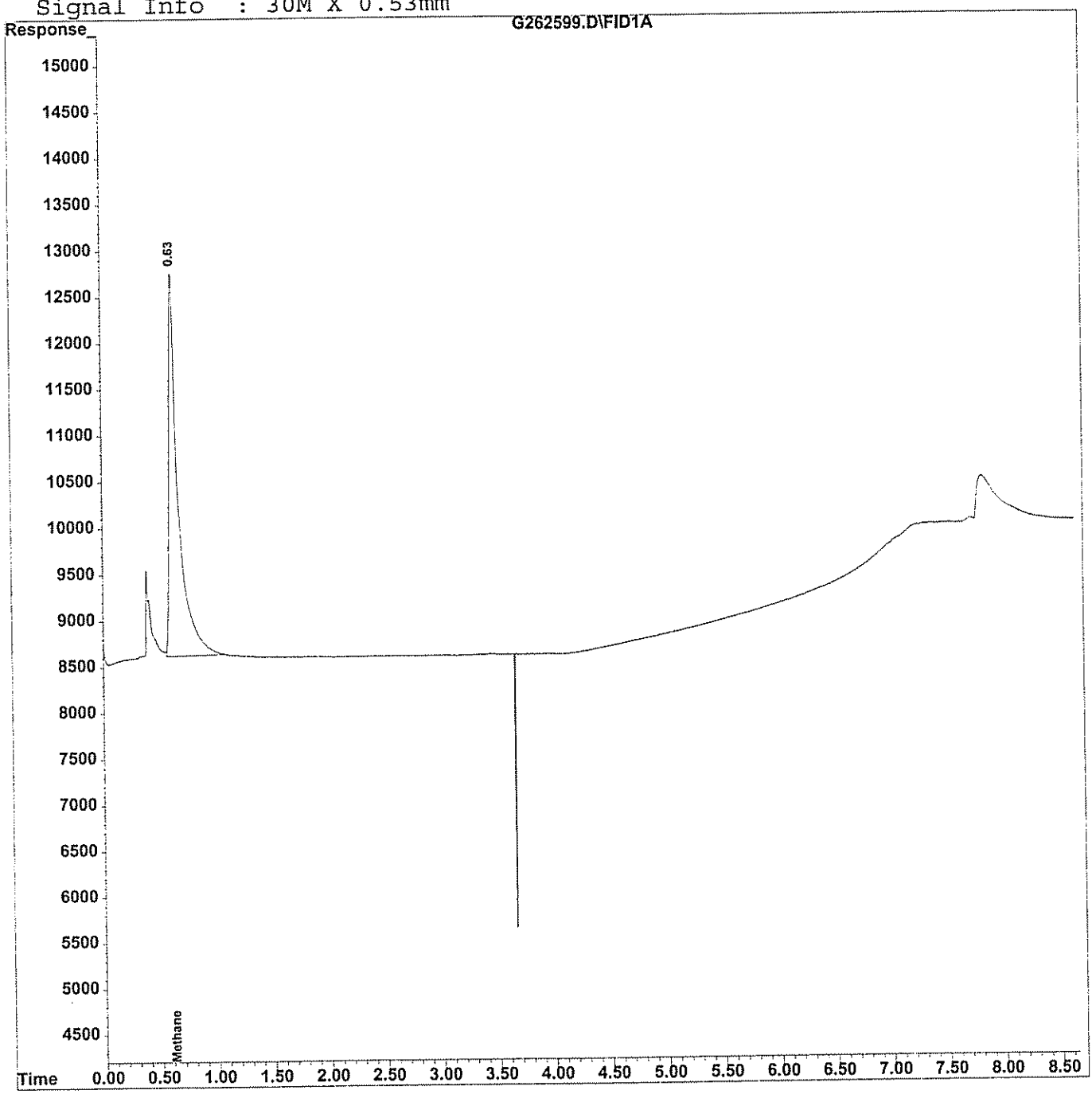
Quantitation Report

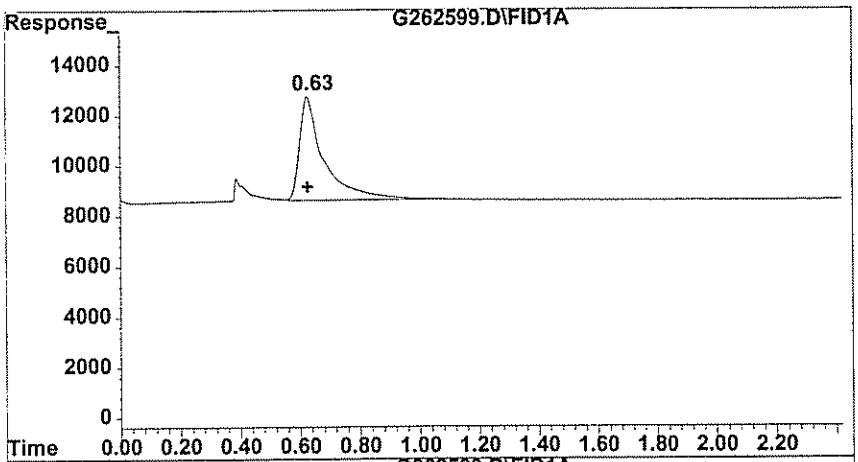
Data File : H:\GCDATA\G\032309\G262599.D
Acq On : 23 Mar 2009 13:21
Sample : 903069-002
Misc : OUI-FB-031009,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 23 13:31 2009 Quant Results File: RSK0320.RES

Vial: 18
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

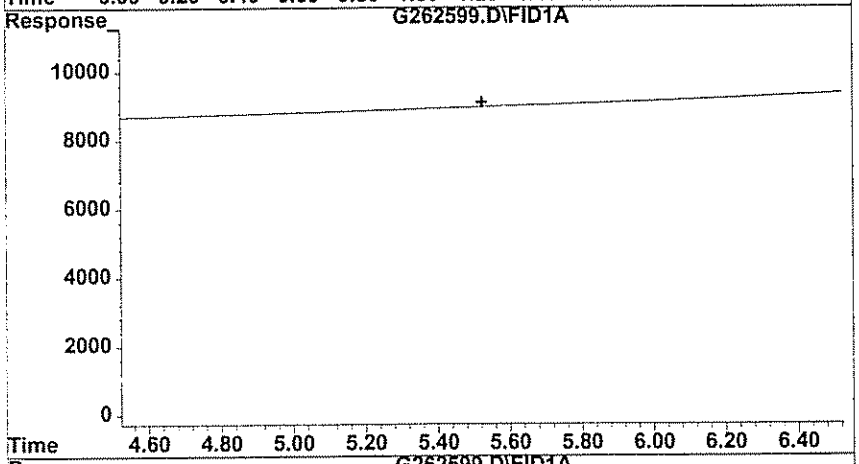
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





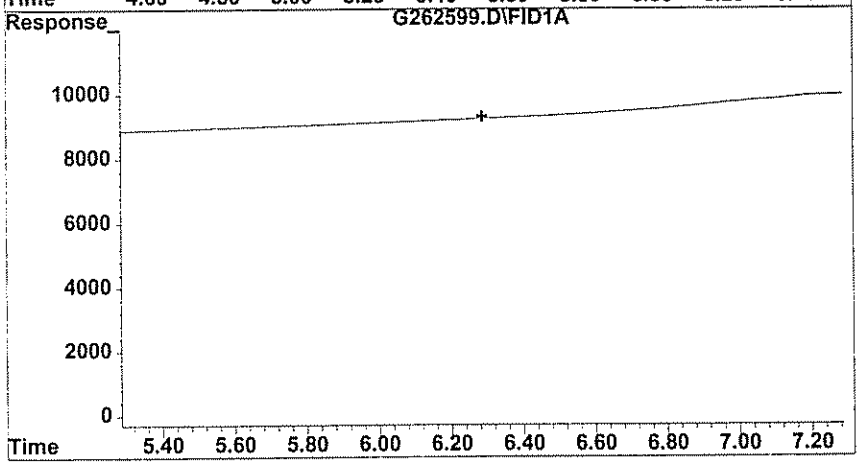
#1 Methane

R.T.: 0.627 min
Delta R.T.: 0.000 min
Response: 23628
Conc: 151.14 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-070-2/6
Sample Volume :	1	Lab File ID :	G262601.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	200	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262601.D Vial: 20
Acq On : 23 Mar 2009 14:02 Operator: TG
Sample : 903069-002DL Inst : GC-G
Misc : OU1-16GW40-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 14:14 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	3065	19.605	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

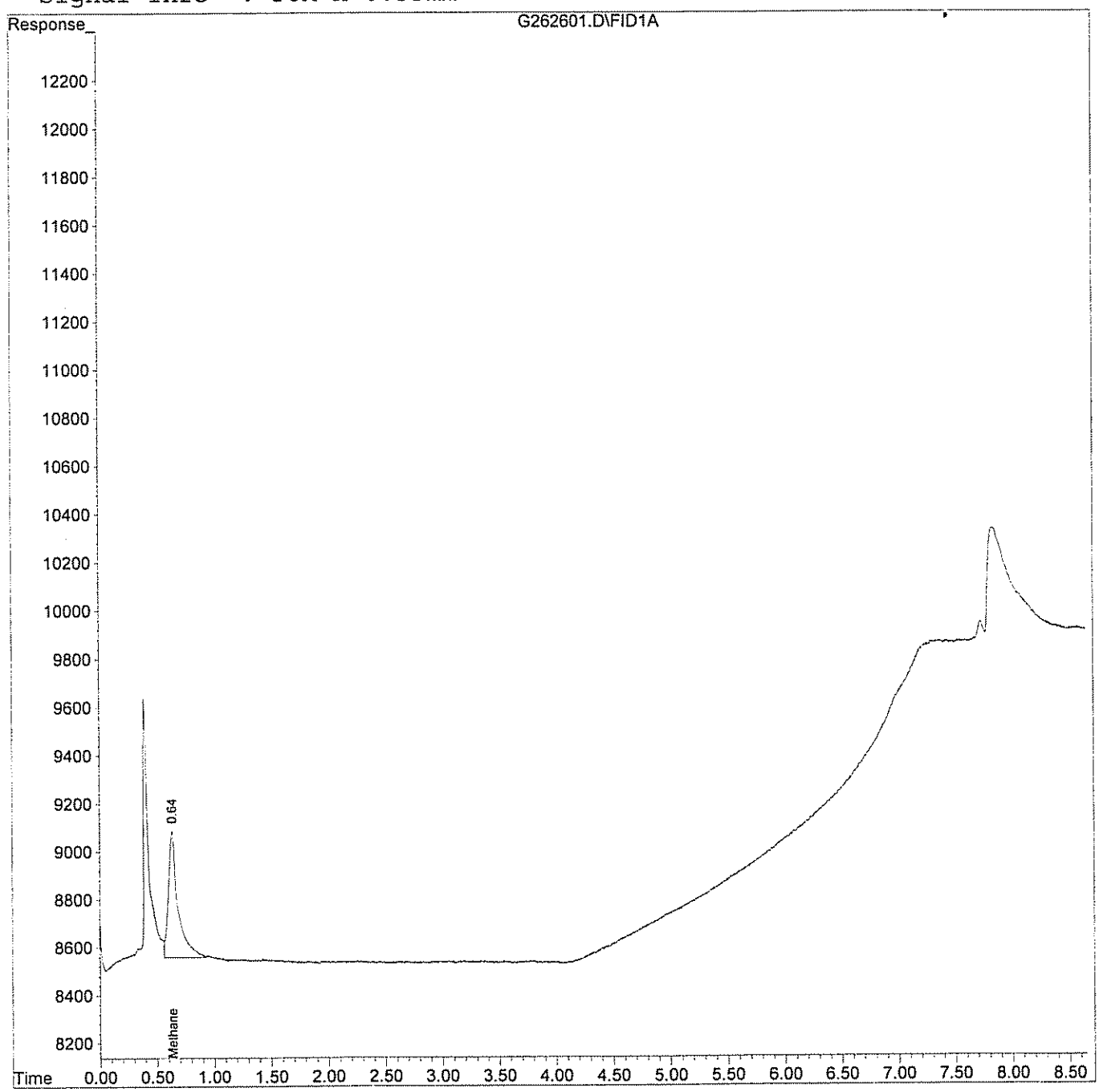
(f)=RT Delta > 1/2 Window (m)=manual int.

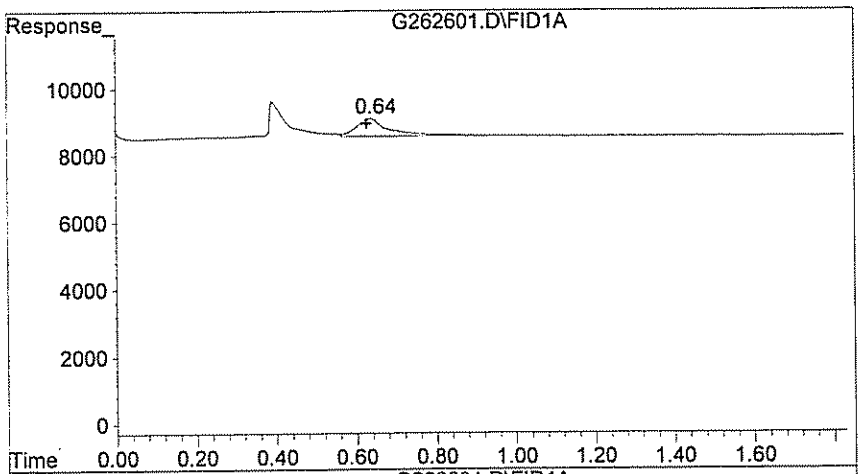
Quantitation Report

Data File : H:\GCDATA\G\032309\G262601.D Vial: 20
Acq On : 23 Mar 2009 14:02 Operator: TG
Sample : 903069-002DL Inst : GC-G
Misc : OU1-16GW40-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 14:14 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

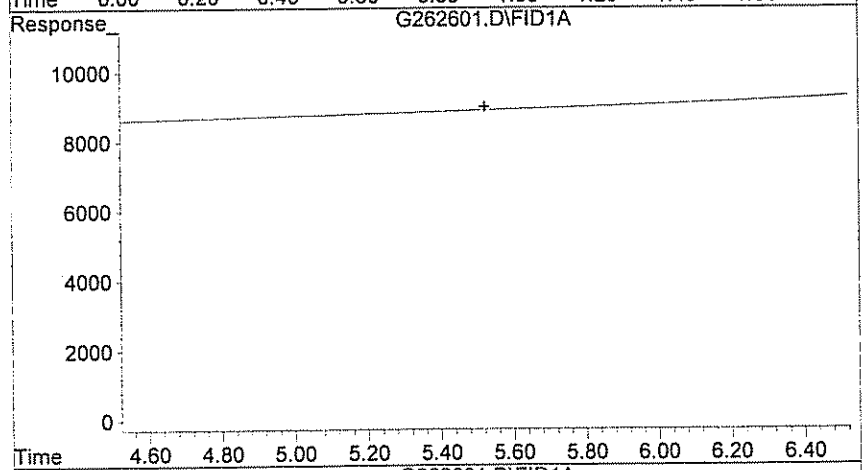
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





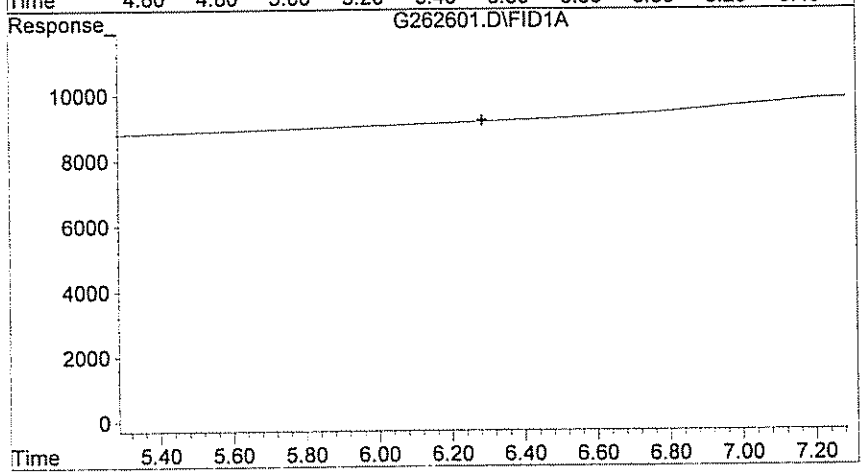
#1 Methane

R.T.:	0.637 min
Delta R.T.:	0.010 min
Response:	3065
Conc:	19.61 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-031-1/2
Sample Volume :	10	Lab File ID :	G262606.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	5.9	J
74-85-1	Ethene	5.8	U
74-82-8	Methane	1400	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262606.D Vial: 25
Acq On : 23 Mar 2009 15:34 Operator: TG
Sample : 903069-003 Inst : GC-G
Misc : OU1-16GW41-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 15:44 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	224289	1434.658	ppb	
2) T	Ethane	5.55	139	5.862	ppb	m
3) T	Ethylene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual
G262606.D RSK0320.M Wed Mar 25 11:07:54 2009 W28_IOANNIDE Page 1

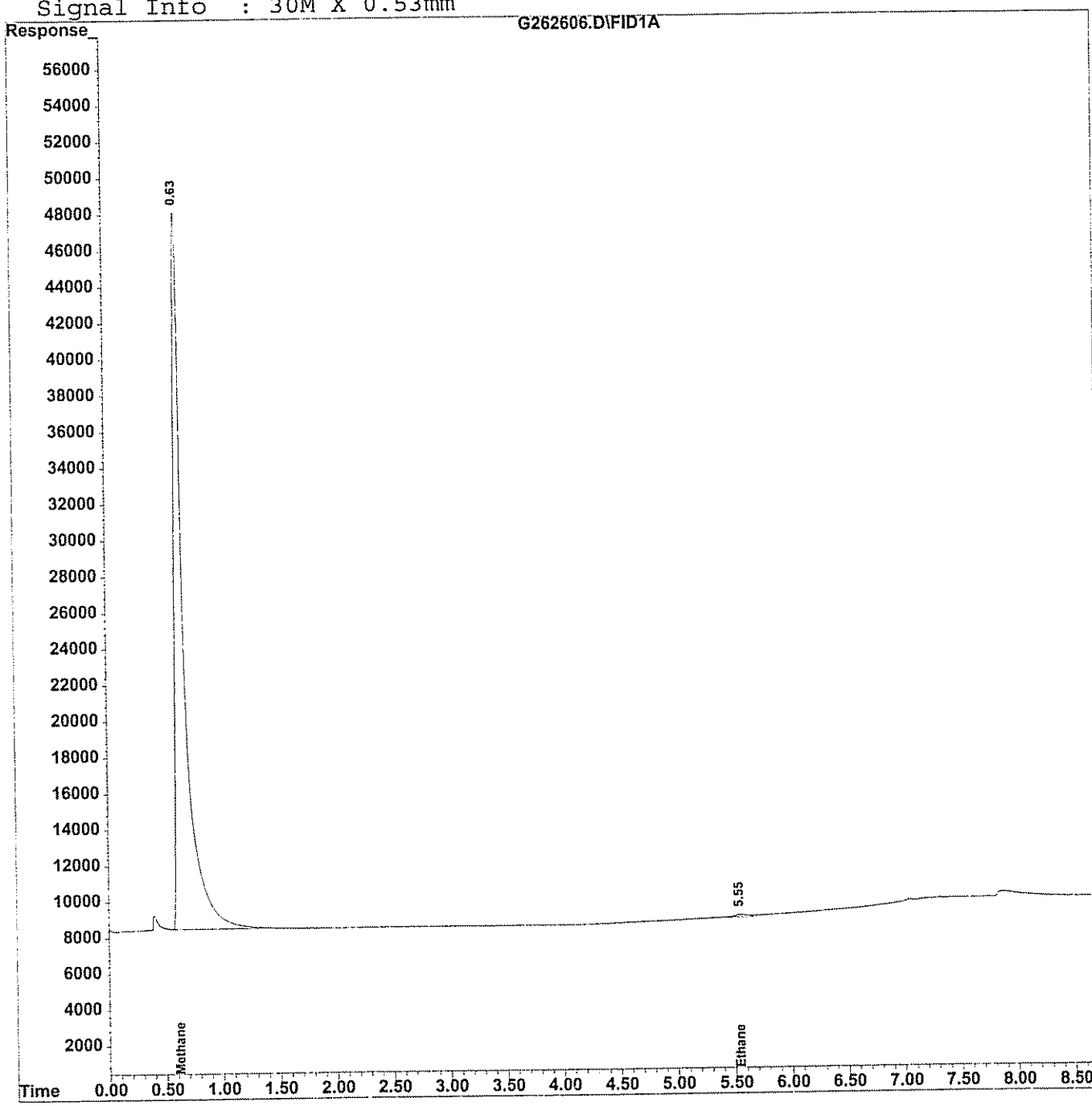
Quantitation Report

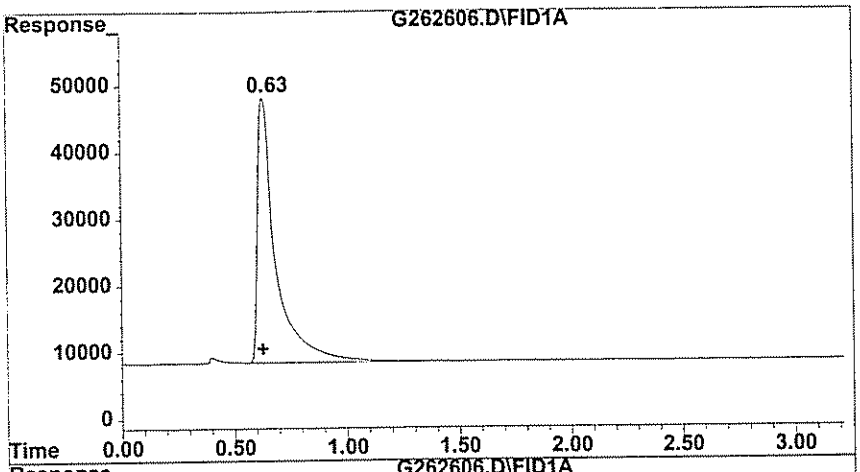
Data File : H:\GCDATA\G\032309\G262606.D
Acq On : 23 Mar 2009 15:34
Sample : 903069-003
Misc : OU1-16GW41-0309,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 23 15:44 2009 Quant Results File: RSK0320.RES

Vial: 25
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

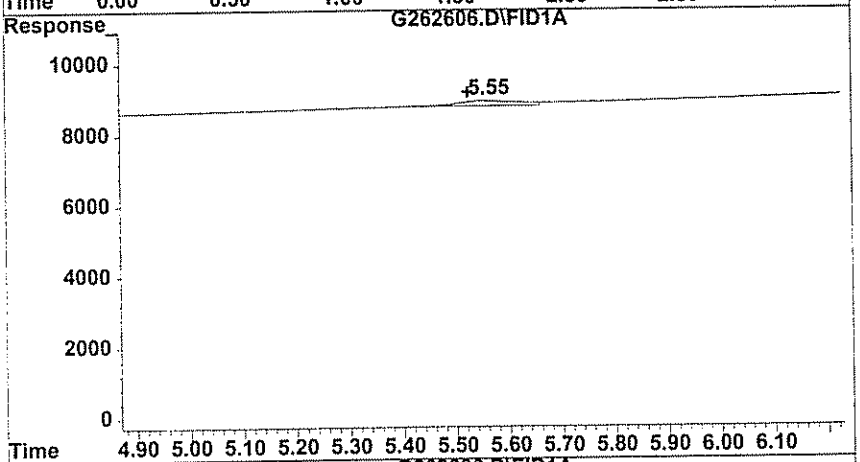
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





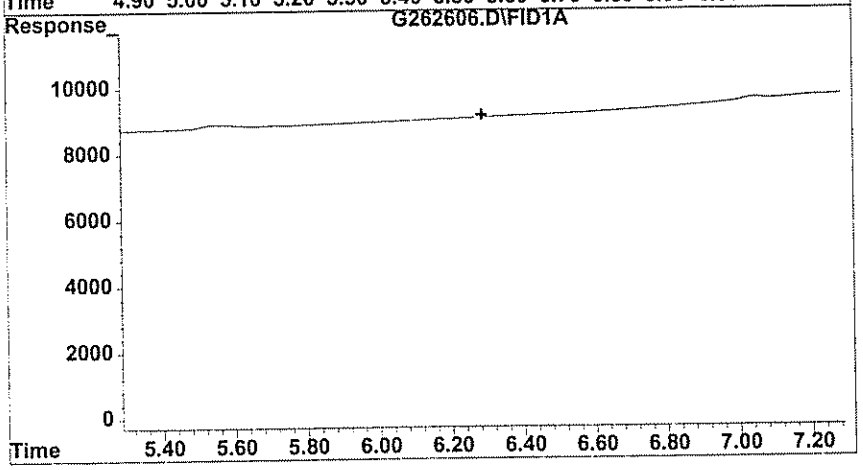
#1 Methane

R.T.: 0.630 min
Delta R.T.: 0.003 min
Response: 224289
Conc: 1434.66 ppb



#2 Ethane

R.T.: 5.553 min
Delta R.T.: 0.030 min
Response: 139
Conc: 5.86 ppb m



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-003-032-2/2
Sample Volume :	.1	Lab File ID :	G262609.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	880	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262609.D Vial: 28
Acq On : 23 Mar 2009 16:21 Operator: TG
Sample : 903069-003DL Inst : GC-G
Misc : OU1-16GW42-0309,CH2M,WATER,10ML,100X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 16:32 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.65	1370	8.763	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manually integrated

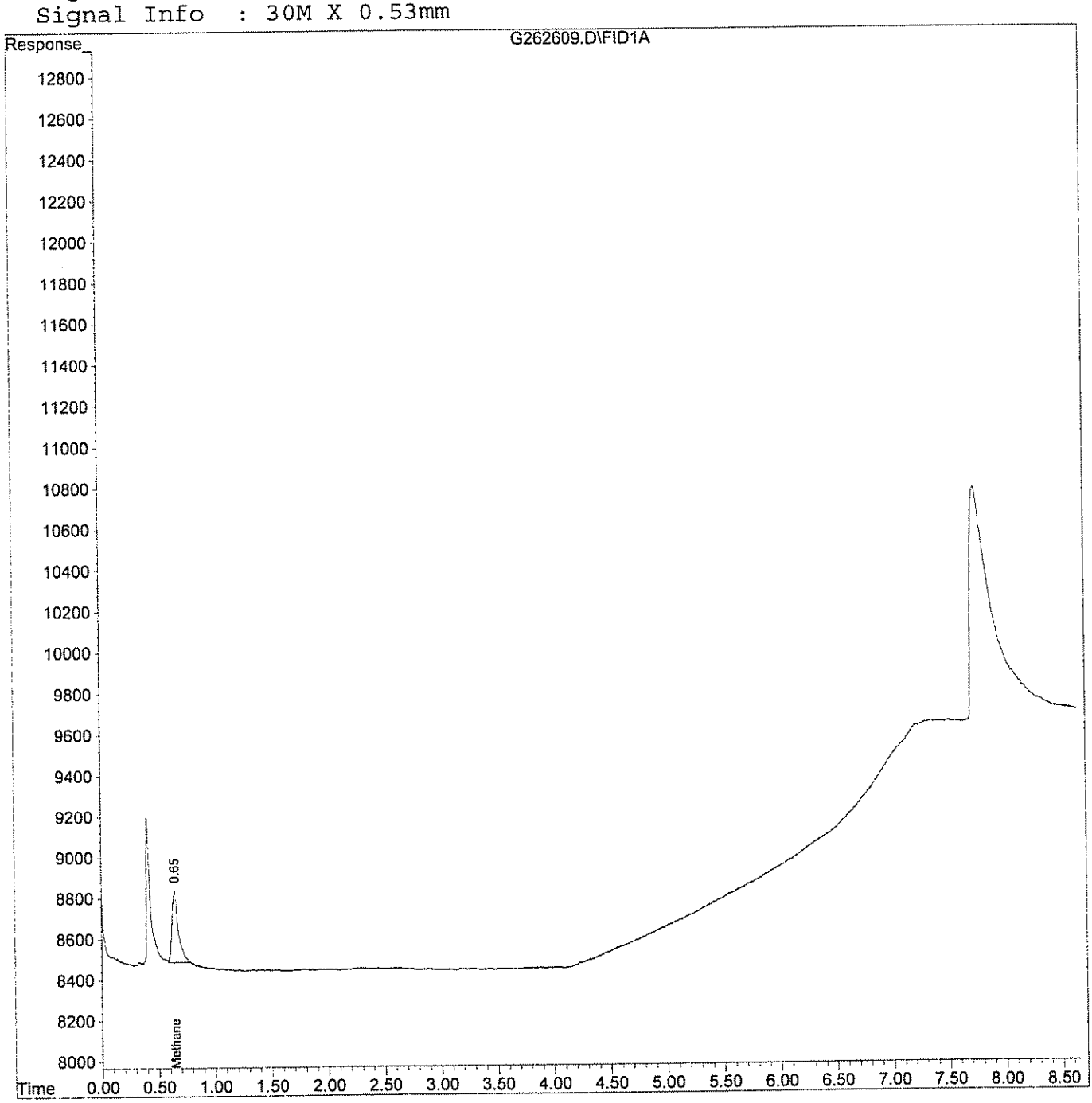
Quantitation Report

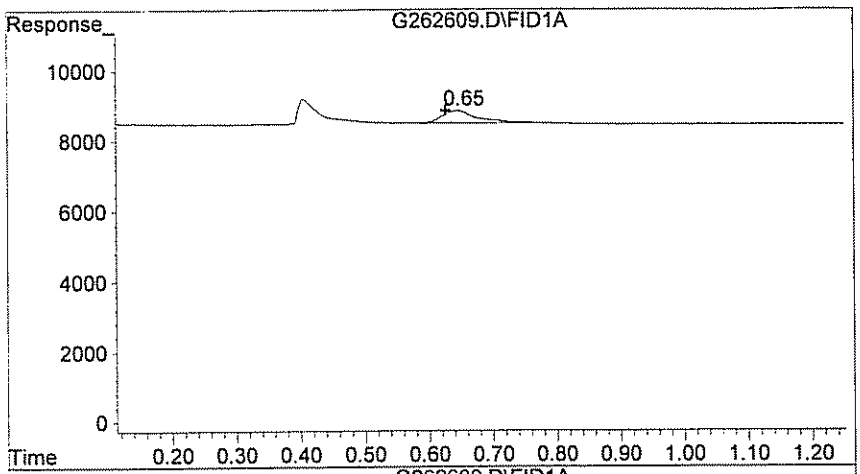
Data File : H:\GCDATA\G\032309\G262609.D
Acq On : 23 Mar 2009 16:21
Sample : 903069-003DL
Misc : OU1-16GW42-0309,CH2M,WATER,10ML,100X
IntFile : rteint.p
Quant Time: Mar 23 16:32 2009 Quant Results File: RSK0320.RES

Vial: 28
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

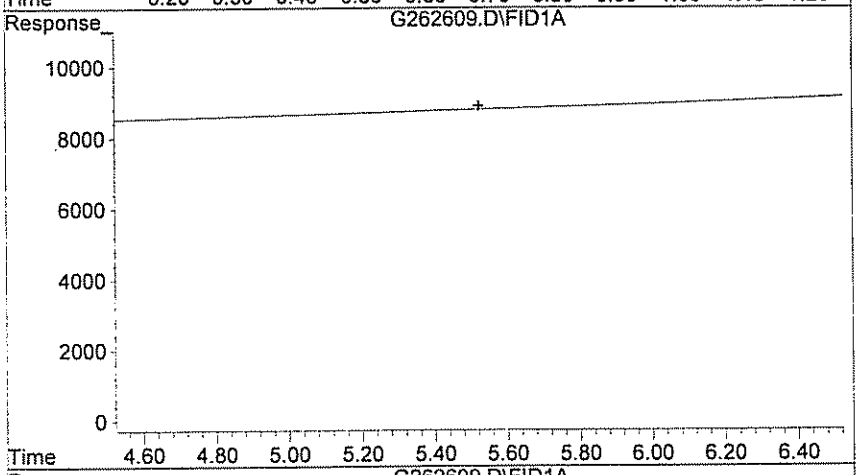
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





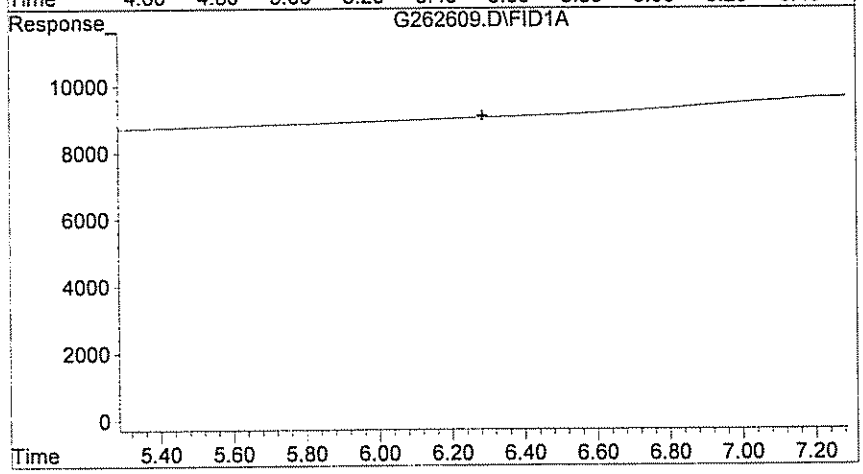
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 1370
Conc: 8.76 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-033-1/2
Sample Volume :	10	Lab File ID :	G262607.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	790	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262607.D Vial: 26
Acq On : 23 Mar 2009 15:49 Operator: TG
Sample : 903069-004 Inst : GC-G
Misc : OU1-16GW03-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 15:59 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.63	124028	793.341	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual
G262607.D RSK0320.M Wed Mar 25 11:08:13 2009 W28_IOANNIDE Page 1

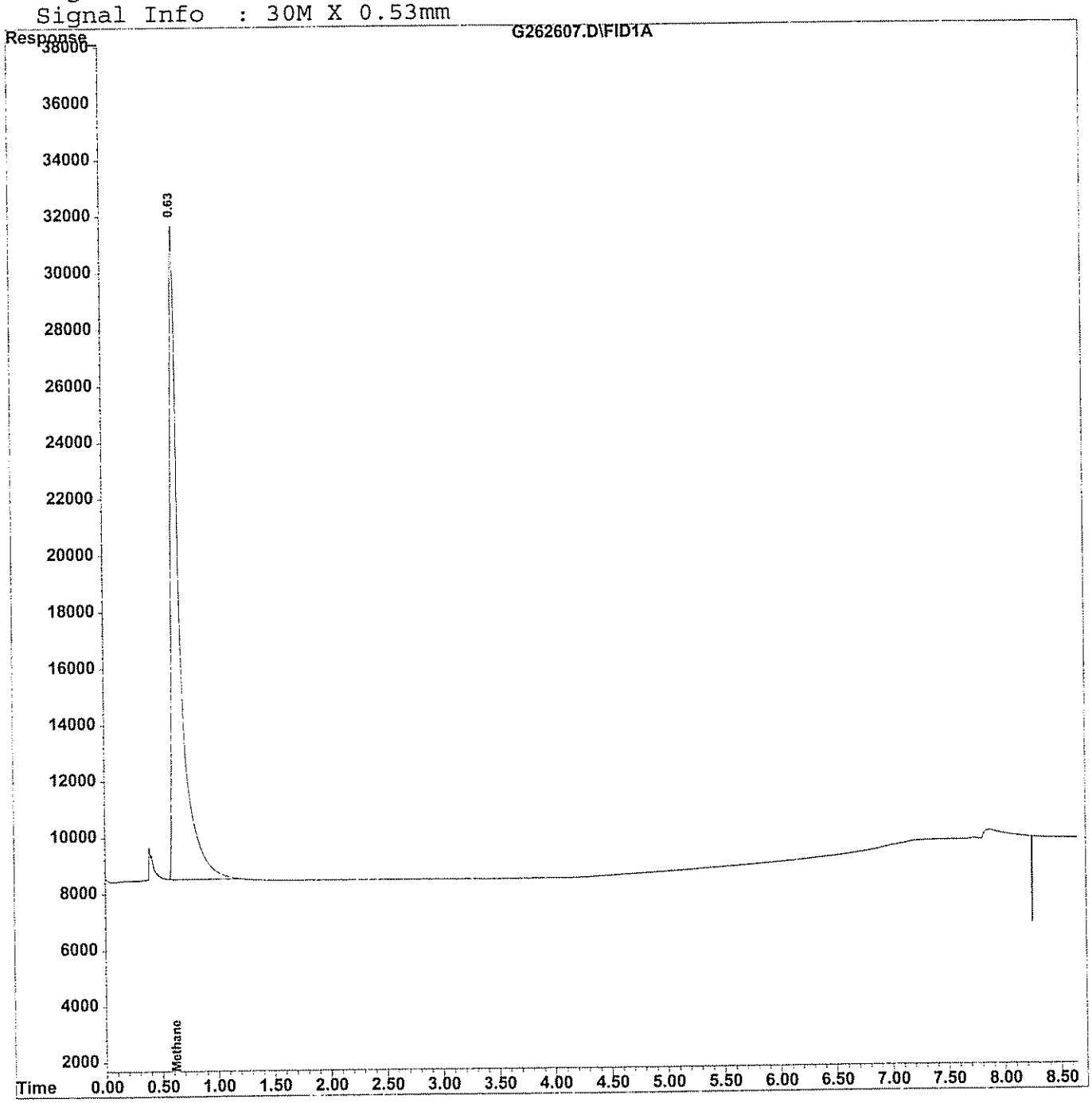
Quantitation Report

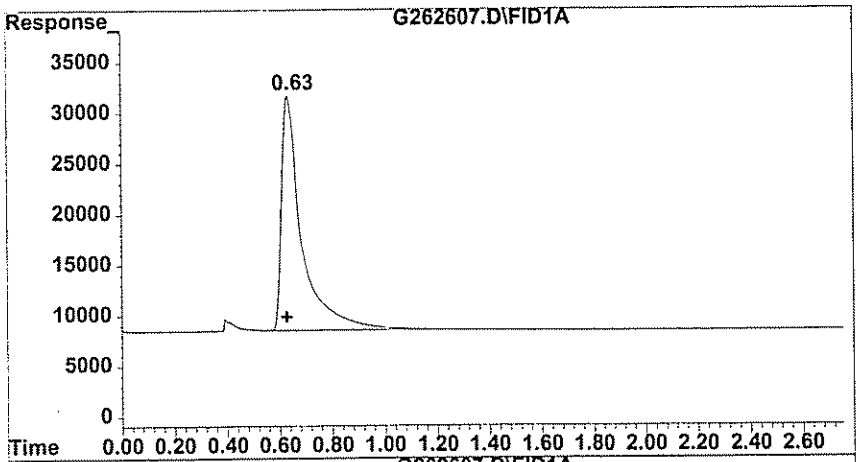
Data File : H:\GCDATA\G\032309\G262607.D
Acq On : 23 Mar 2009 15:49
Sample : 903069-004
Misc : OU1-16GW03-0309,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 23 15:59 2009 Quant Results File: RSK0320.RES

Vial: 26
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

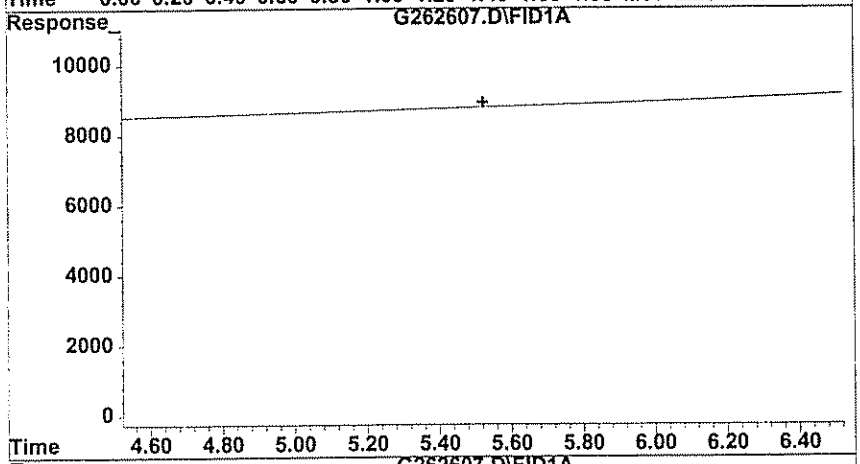
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





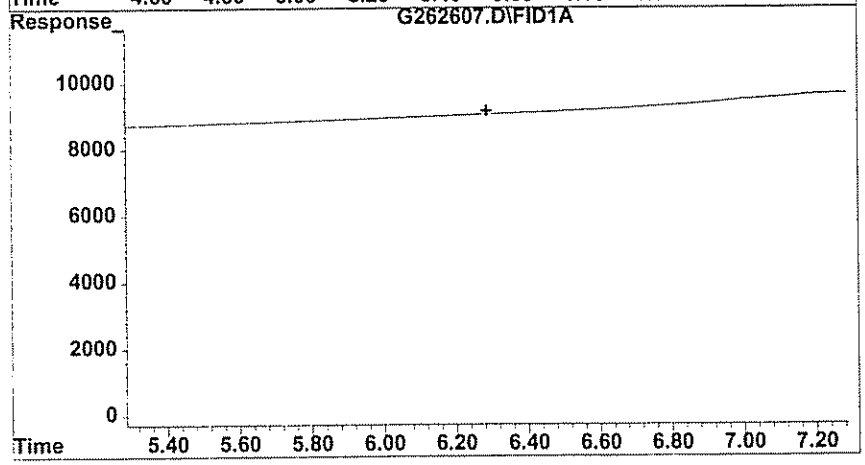
#1 Methane

R.T.: 0.633 min
Delta R.T.: 0.007 min
Response: 124028
Conc: 793.34 ppb



#2 Ethethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-004-034-2/2
Sample Volume :	.2	Lab File ID :	G262610.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	310	U
74-85-1	Ethene	290	U
74-82-8	Methane	290	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262610.D Vial: 29
Acq On : 23 Mar 2009 16:36 Operator: TG
Sample : 903069-004DL Inst : GC-G
Misc : OU1-16GW03-0309,CH2M,WATER,10ML,50X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 16:51 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) T Methane	0.64	901	5.763	ppb	m
2) T Ethane	0.00	0	N.D.	ppb	
3) T Ethylene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual integ.
G262610.D RSK0320.M Mon Mar 23 16:51:53 2009 W28_IOANNIDE Page 1

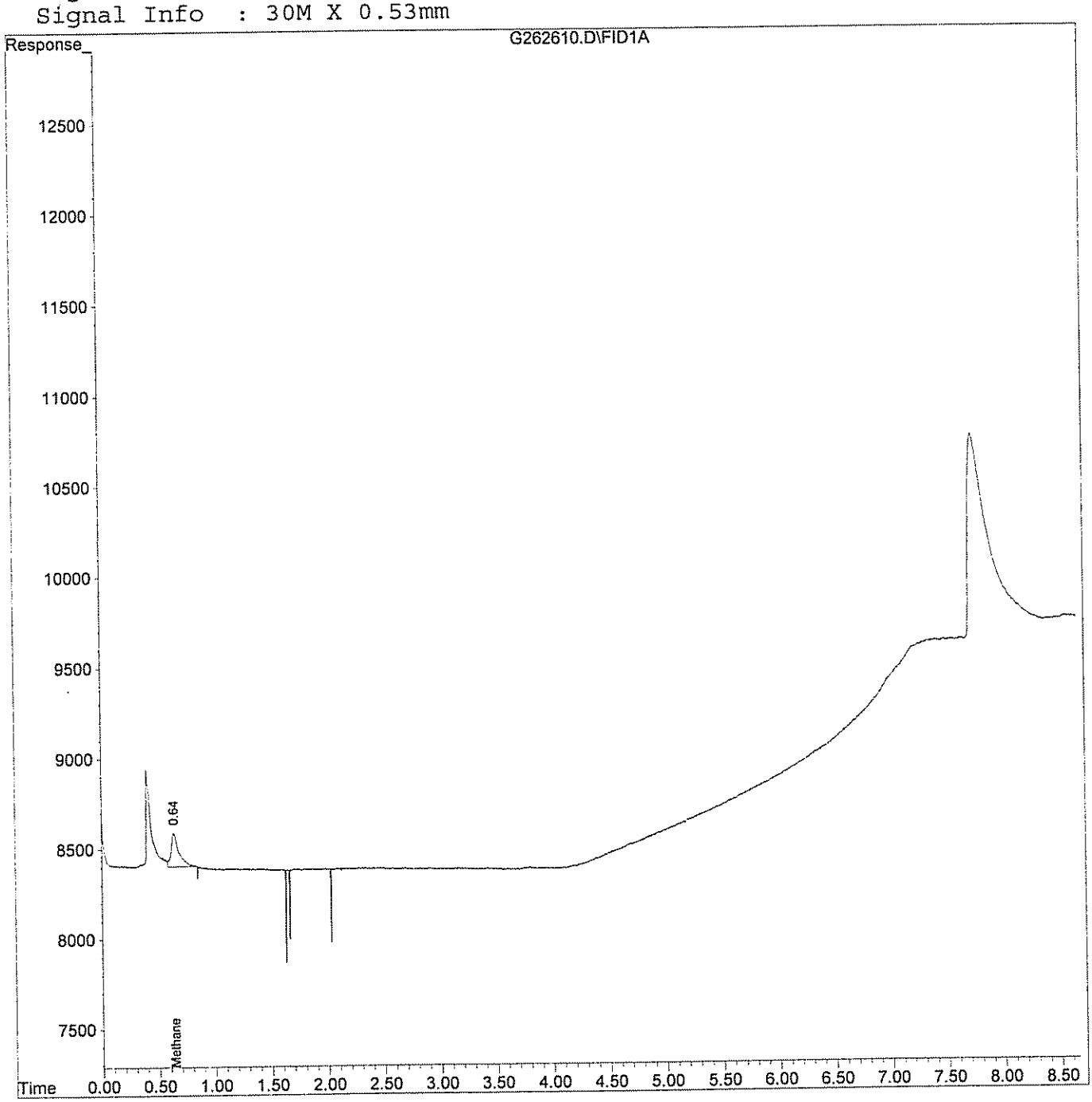
Quantitation Report

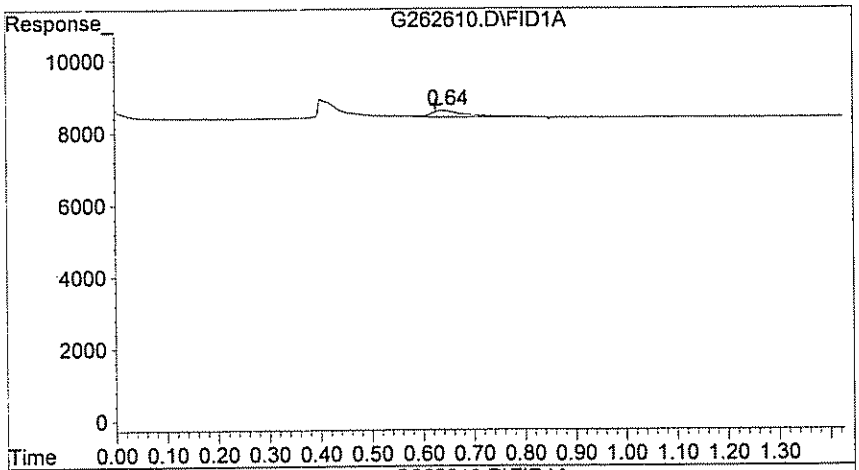
Data File : H:\GCDATA\G\032309\G262610.D
Acq On : 23 Mar 2009 16:36
Sample : 903069-004DL
Misc : OU1-16GW03-0309,CH2M,WATER,10ML,50X
IntFile : rteint.p
Quant Time: Mar 23 16:51 2009 Quant Results File: RSK0320.RES

Vial: 29
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

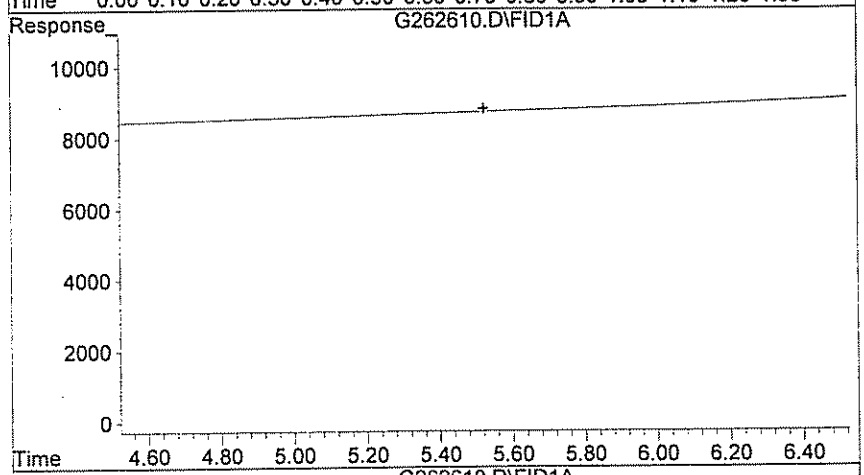
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





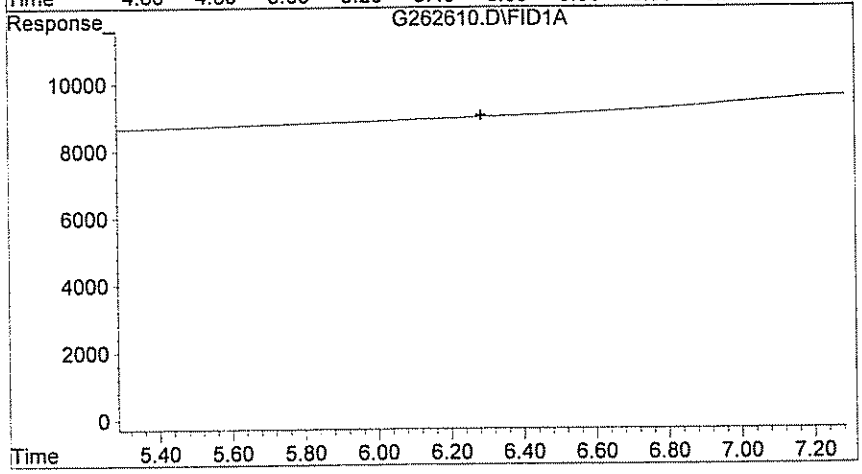
#1 Methane

R.T.:	0.640 min
Delta R.T.:	0.013 min
Response:	901
Conc:	5.76 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-035-1/2
Sample Volume :	10	Lab File ID :	G262608.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	4.2	J
74-85-1	Ethene	5.8	U
74-82-8	Methane	1100	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262608.D Vial: 27
Acq On : 23 Mar 2009 16:05 Operator: TG
Sample : 903069-005 Inst : GC-G
Misc : OU1-16GW42-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 16:15 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	172465	1103.167	ppb	
2) T	Ethane	5.55	100	4.217	ppb	m
3) T	Ethylene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual
G262608.D RSK0320.M Wed Mar 25 11:08:45 2009 W28_IOANNIDE Page 1

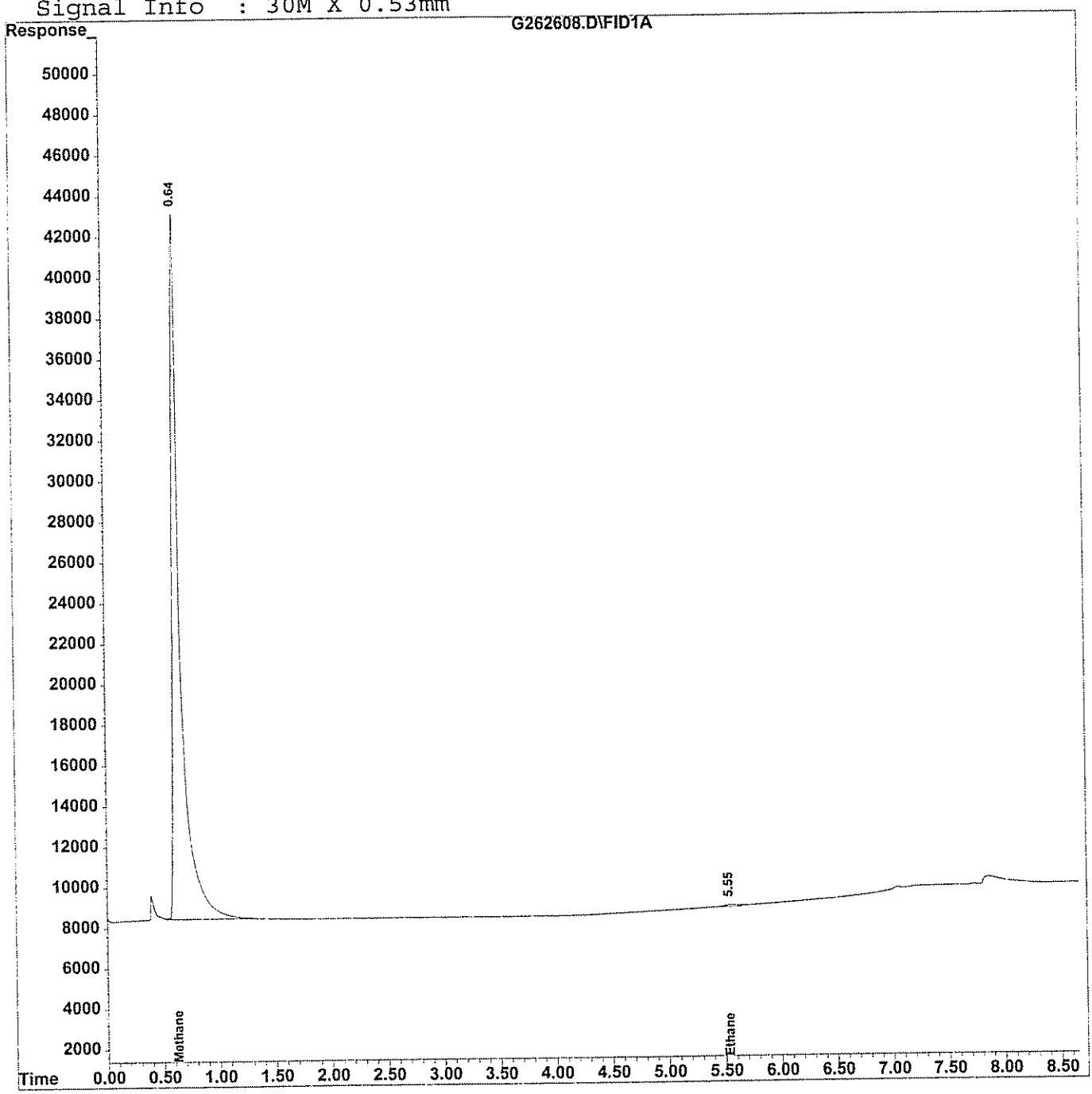
Quantitation Report

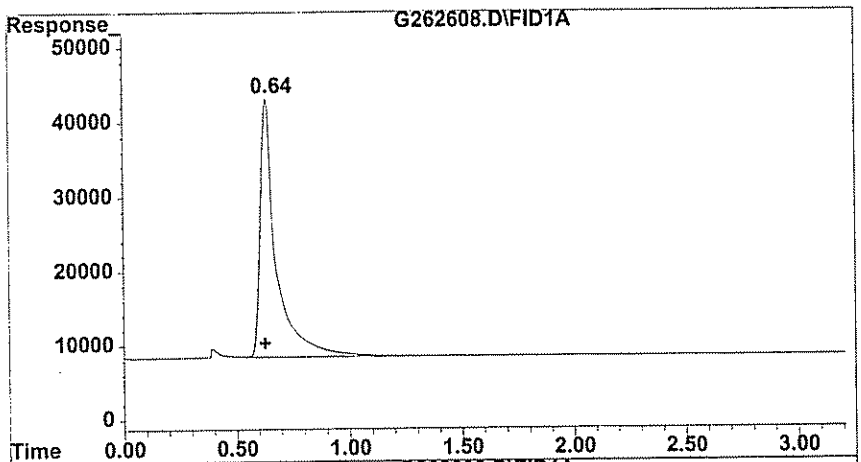
Data File : H:\GCDATA\G\032309\G262608.D
Acq On : 23 Mar 2009 16:05
Sample : 903069-005
Misc : OU1-16GW42-0309,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 23 16:15 2009 Quant Results File: RSK0320.RES

Vial: 27
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

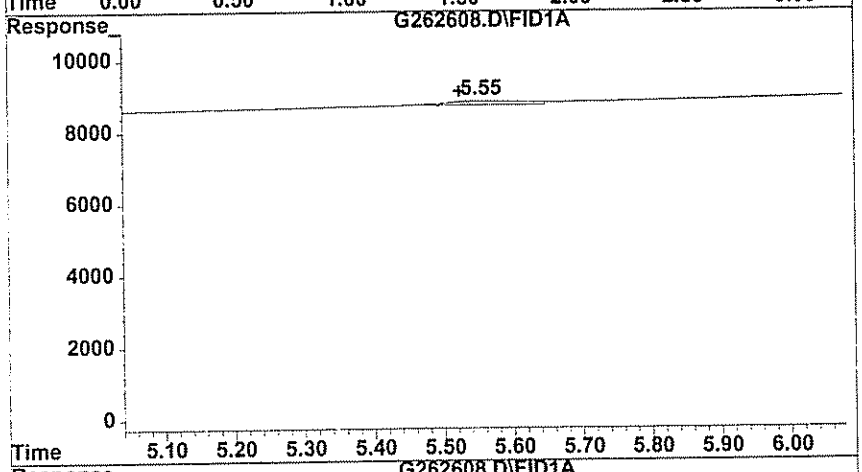
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





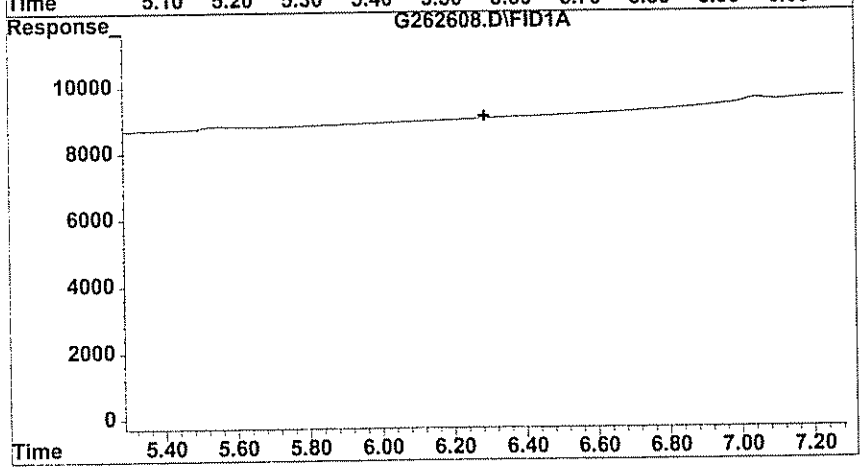
#1 Methane

R.T.: 0.637 min
Delta R.T.: 0.010 min
Response: 172465
Conc: 1103.17 ppb



#2 Ethane

R.T.: 5.547 min
Delta R.T.: 0.023 min
Response: 100
Conc: 4.22 ppb m



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-005-036-2/2
Sample Volume :	.1	Lab File ID :	G262611.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	1200	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262611.D Vial: 30
Acq On : 23 Mar 2009 16:54 Operator: TG
Sample : 903069-005DL Inst : GC-G
Misc : OU1-16GW42-0309,CH2M,WATER,10ML,100X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 17:05 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	1851	11.840	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

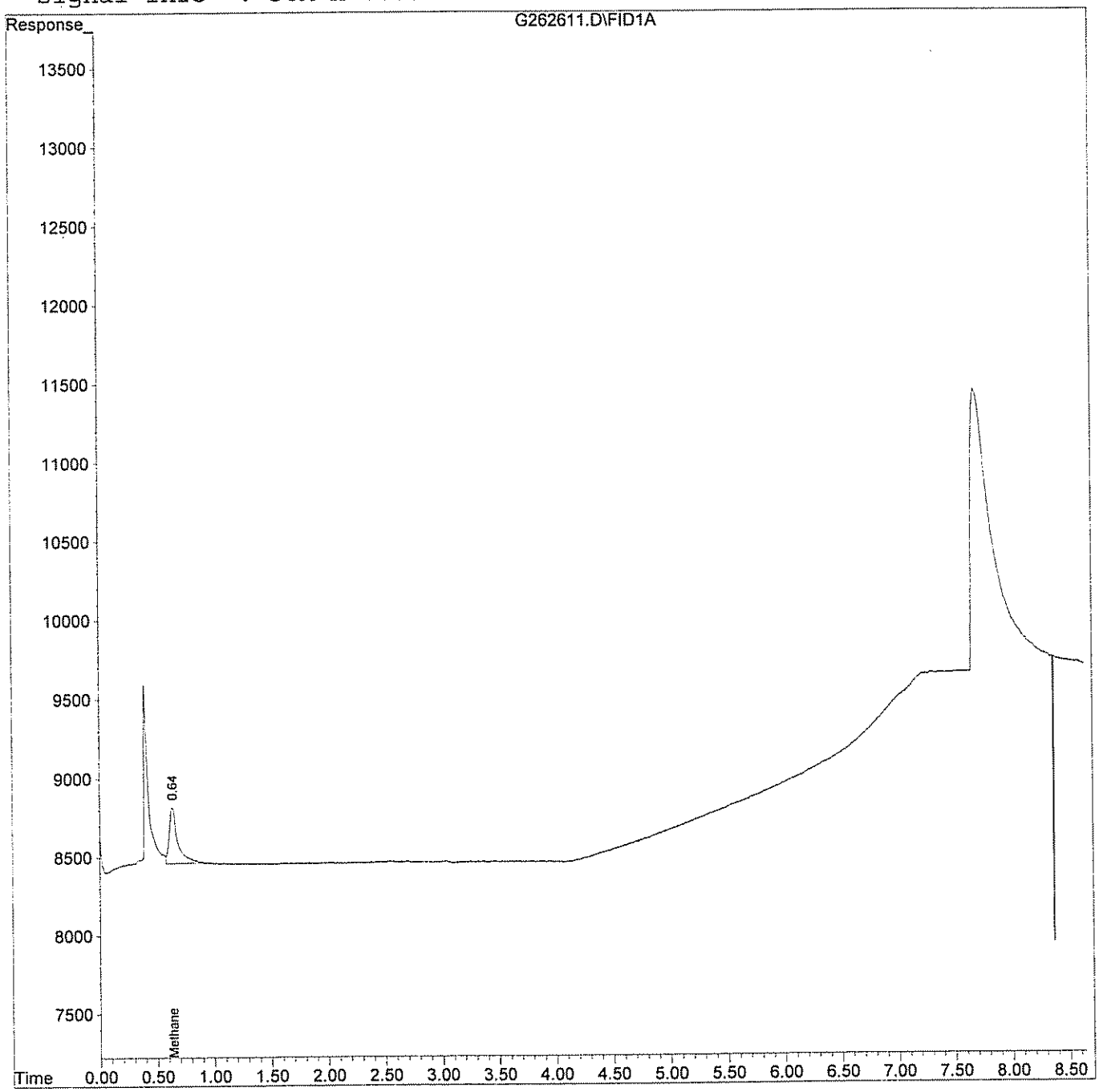
(f)=RT Delta > 1/2 Window (m)=manual int.

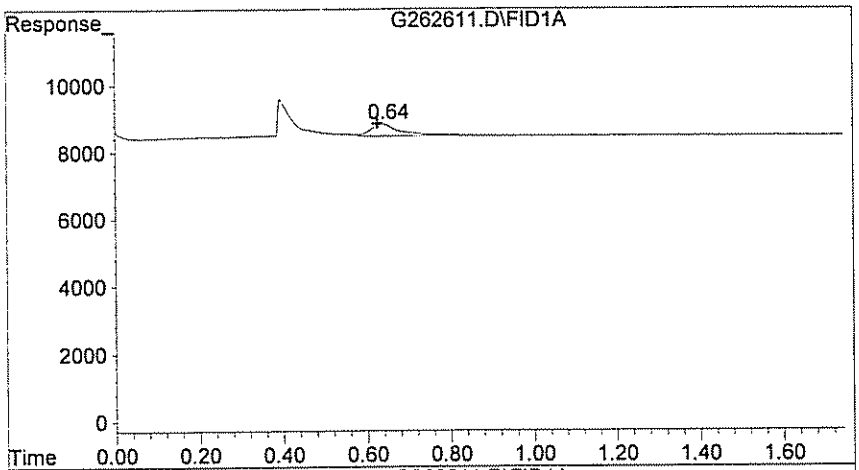
Quantitation Report

Data File : H:\GCDATA\G\032309\G262611.D Vial: 30
Acq On : 23 Mar 2009 16:54 Operator: TG
Sample : 903069-005DL Inst : GC-G
Misc : OU1-16GW42-0309,CH2M,WATER,10ML,100X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 17:05 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

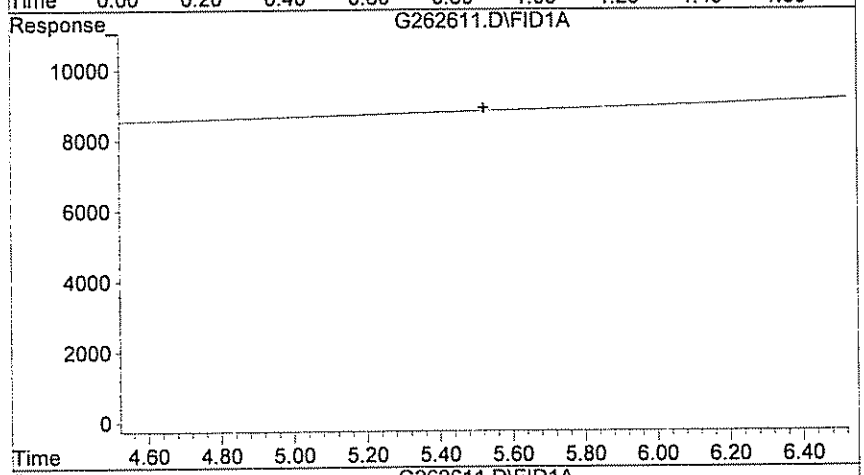
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





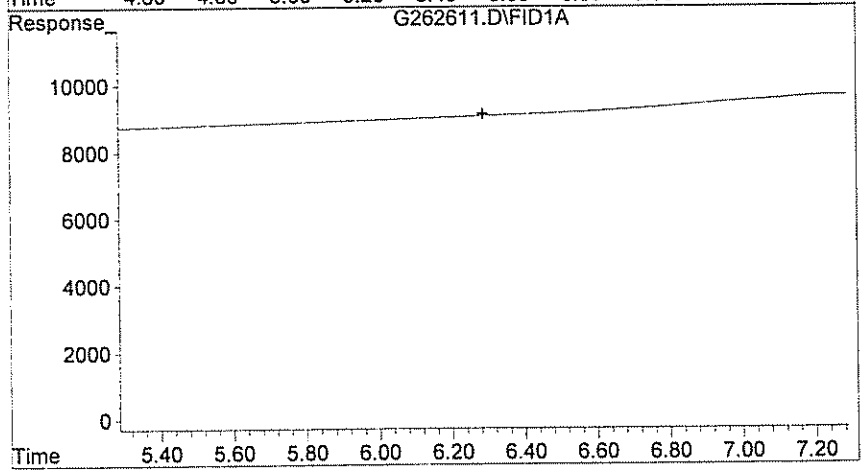
#1 Methane

R.T.: 0.640 min
Delta R.T.: 0.013 min
Response: 1851
Conc: 11.84 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-037-1/2
Sample Volume :	10	Lab File ID :	G262612.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	370	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262612.D Vial: 31
Acq On : 23 Mar 2009 17:08 Operator: TG
Sample : 903069-006 Inst : GC-G
Misc : OU1-16GW04-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 17:18 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

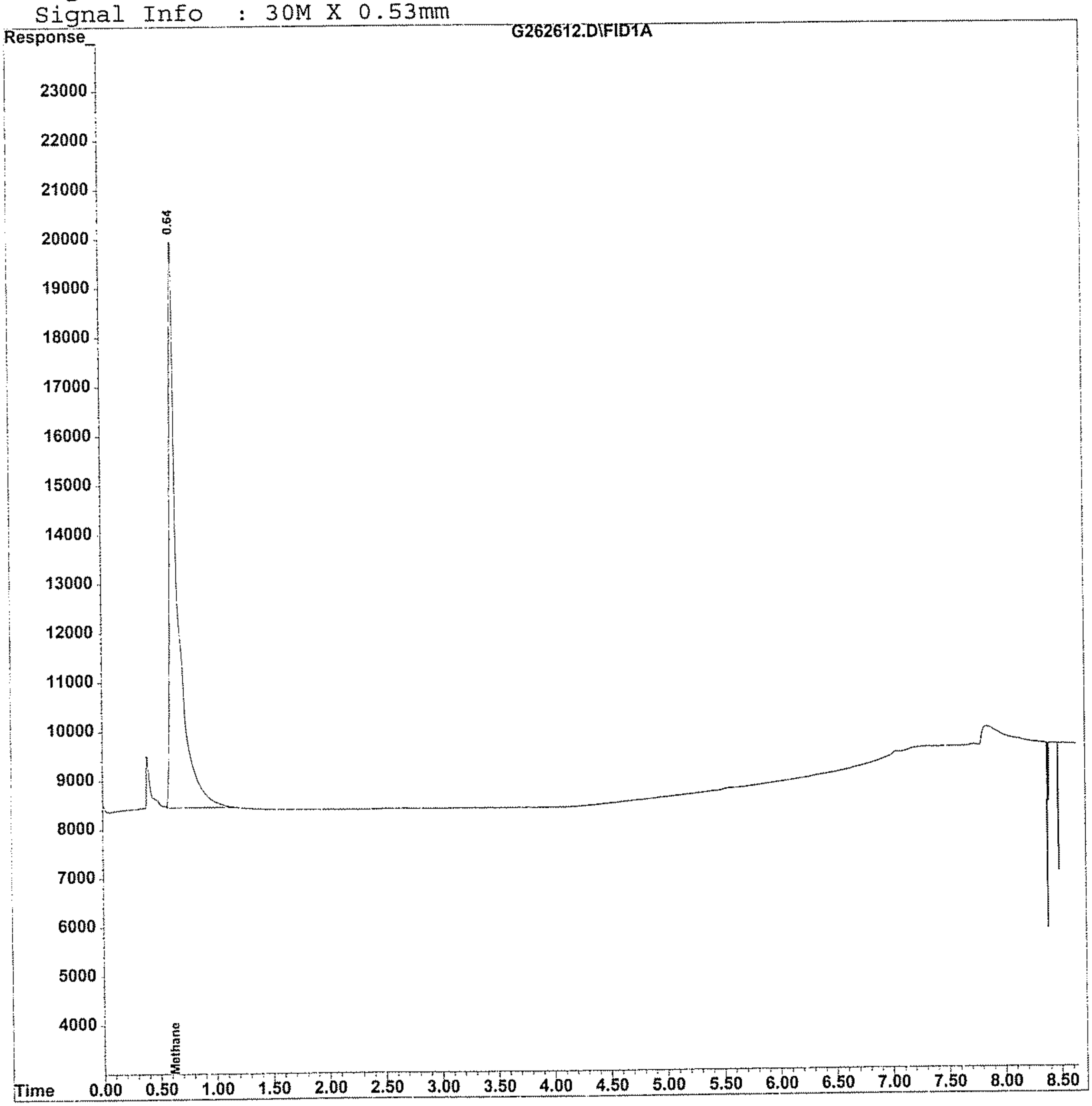
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

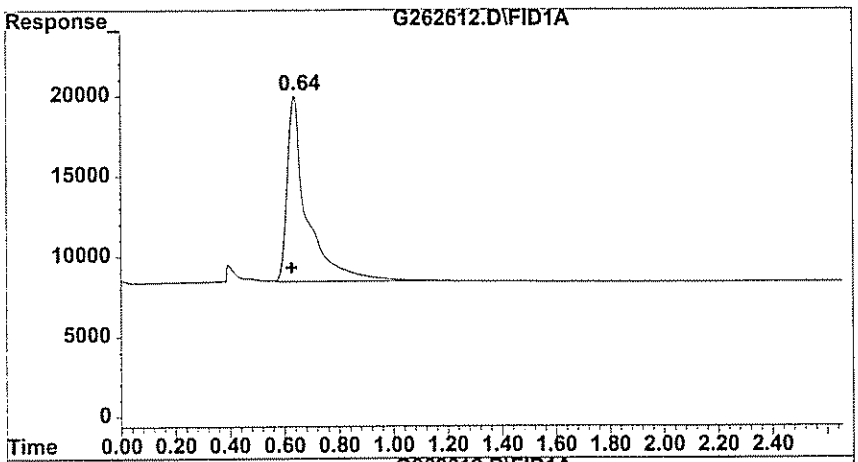
Compound	R.T.	Response	Conc	Units
Target Compounds				
1) T Methane	0.64	57530	367.989	ppb
2) T Ethane	0.00	0	N.D.	ppb
3) T Ethylene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual
G262612.D RSK0320.M Wed Mar 25 11:10:51 2009 W28_IOANNIDE Page 1

Quantitation Report

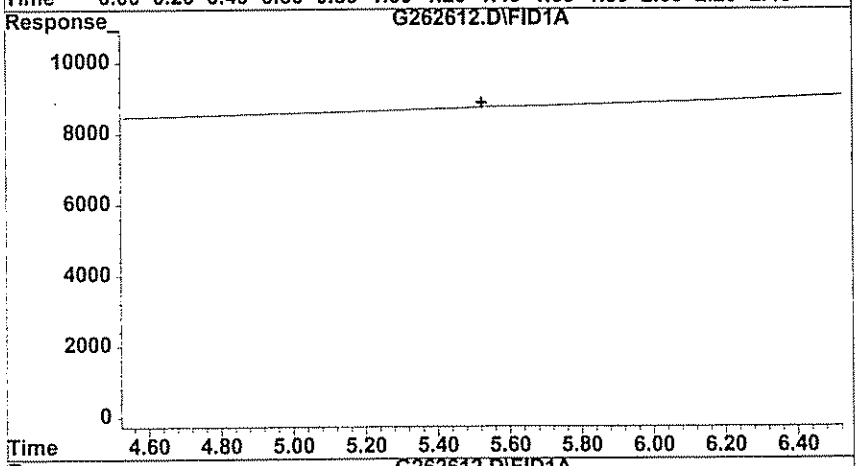
```
Data File : H:\GCDATA\G\032309\G262612.D                 Vial: 31
Acq On    : 23 Mar 2009  17:08                        Operator: TG
Sample    : 903069-006                                Inst    : GC-G
Misc      : OU1-16GW04-0309,CH2M,WATER,10ML           Multiplr: 1.00
IntFile   : rteint.p
Quant Time: Mar 23 17:18 2009  Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title        : DISSOLVED GASES
Last Update  : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

Volume Inj.  : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info  : 30M X 0.53mm
```





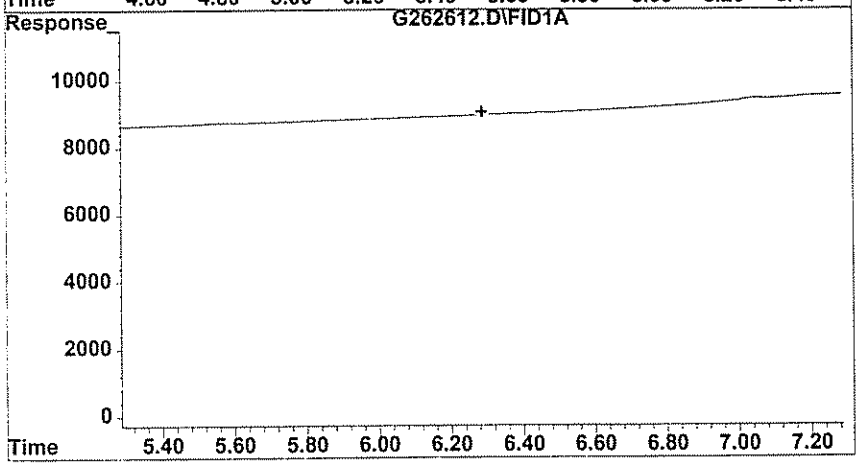
#1 Methane

R.T.: 0.637 min
Delta R.T.: 0.010 min
Response: 57530
Conc: 367.99 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-006-038-2/2
Sample Volume :	.5	Lab File ID :	G262614.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	650	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262614.D Vial: 33
Acq On : 23 Mar 2009 17:42 Operator: TG
Sample : 903069-006DL Inst : GC-G
Misc : OU1-16GW04-0309,CH2M,WATER,10ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 17:53 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	5064	32.392	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

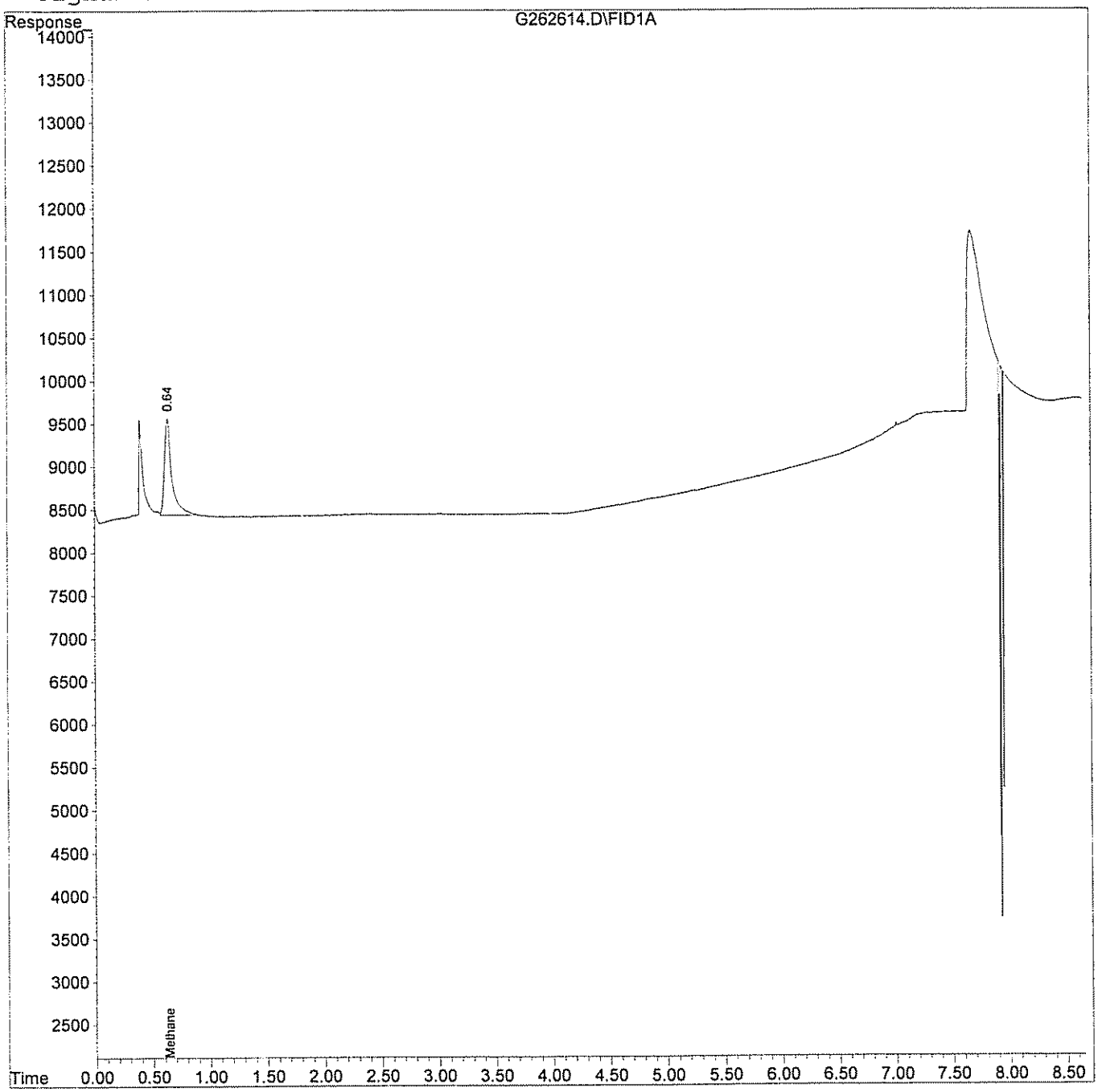
(f)=RT Delta > 1/2 Window (m)=manual int

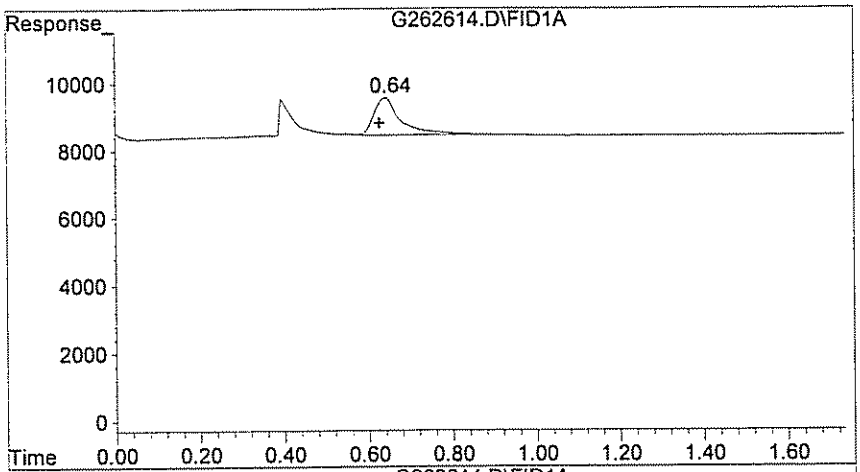
Quantitation Report

Data File : H:\GCDATA\G\032309\G262614.D Vial: 33
Acq On : 23 Mar 2009 17:42 Operator: TG
Sample : 903069-006DL Inst : GC-G
Misc : OU1-16GW04-0309,CH2M,WATER,10ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 17:53 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

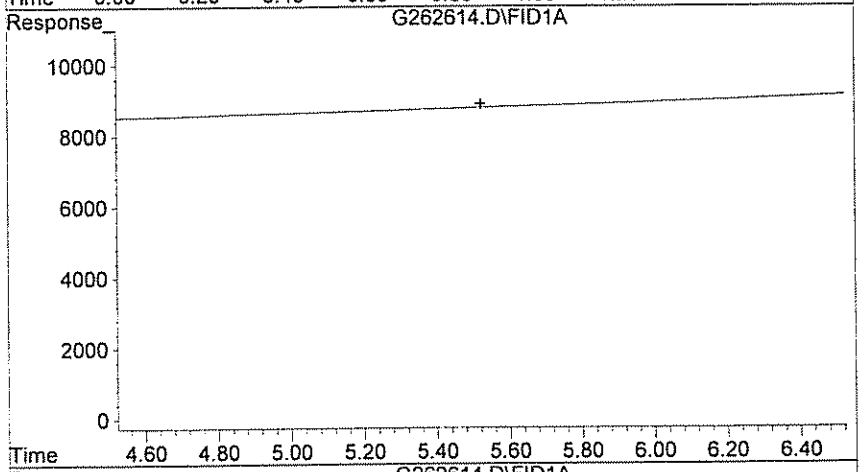
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





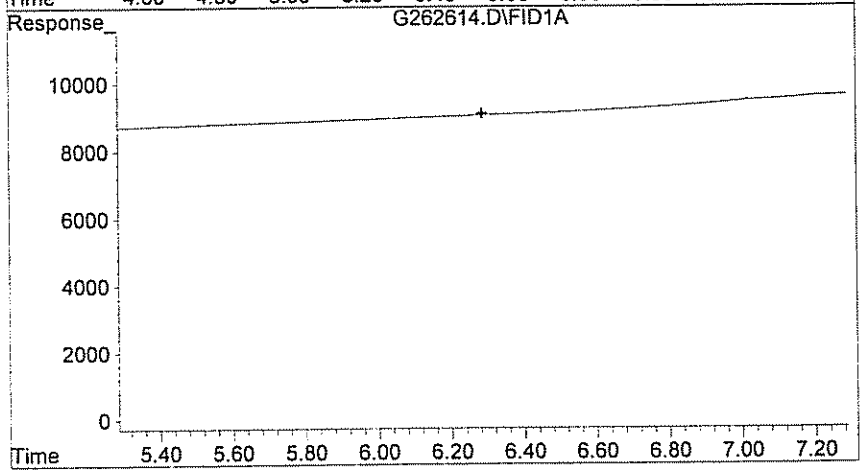
#1 Methane

R.T.: 0.640 min
Delta R.T.: 0.013 min
Response: 5064
Conc: 32.39 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-063-1/6
Sample Volume :	10	Lab File ID :	G262613.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	1500	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262613.D Vial: 32
Acq On : 23 Mar 2009 17:26 Operator: TG
Sample : 903069-007 Inst : GC-G
Misc : OU1-16GW02-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 17:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.64	231468	1480.578	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

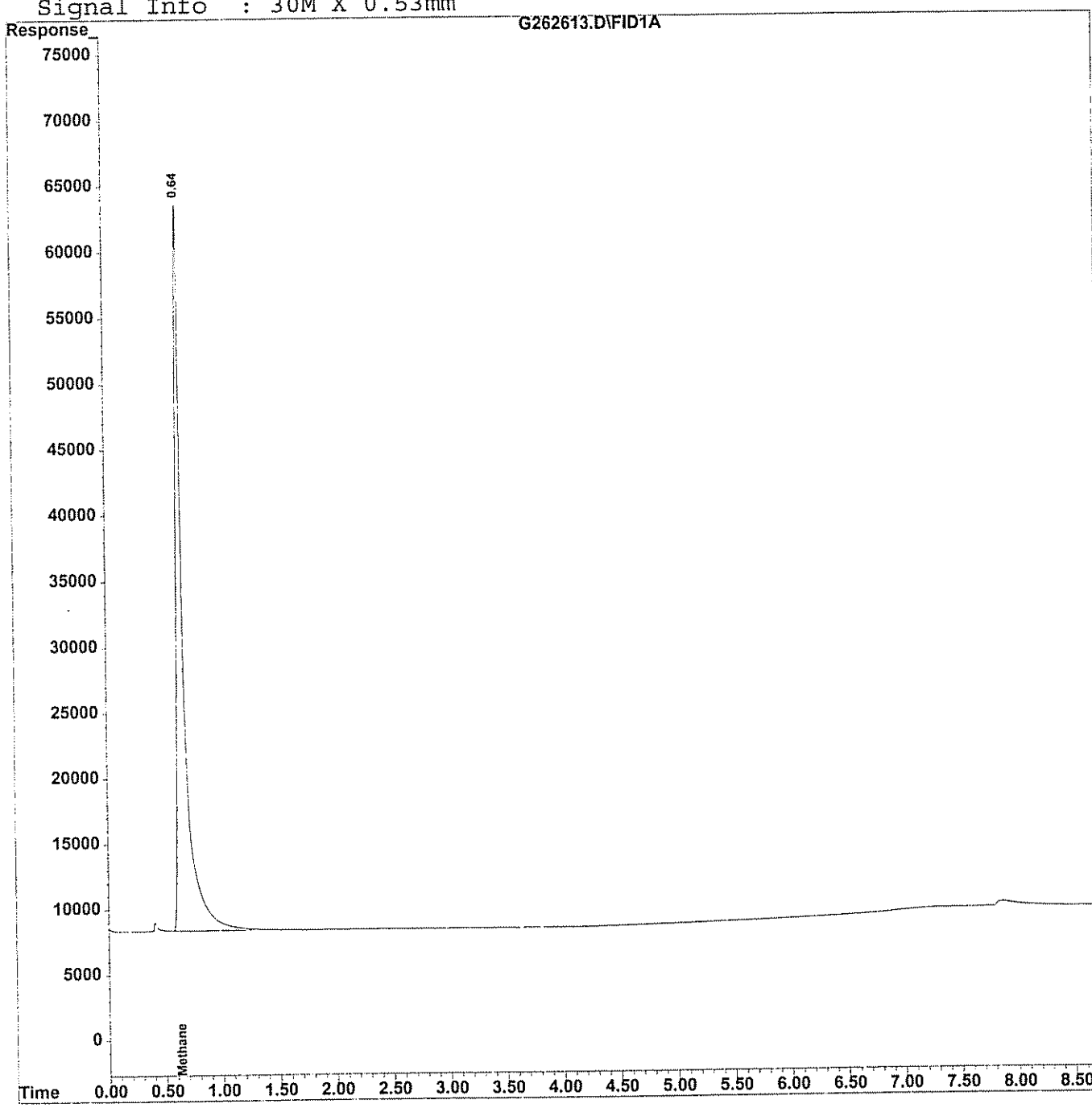
Quantitation Report

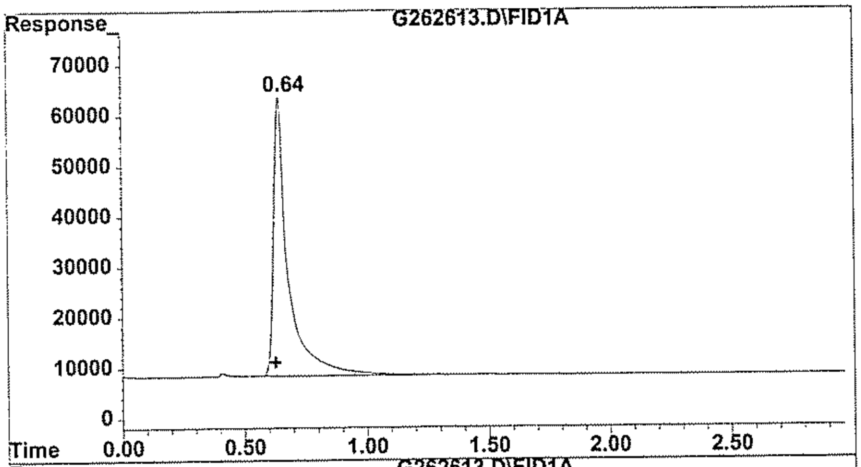
Data File : H:\GCDATA\G\032309\G262613.D
Acq On : 23 Mar 2009 17:26
Sample : 903069-007
Misc : OU1-16GW02-0309,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 23 17:35 2009 Quant Results File: RSK0320.RES

Vial: 32
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

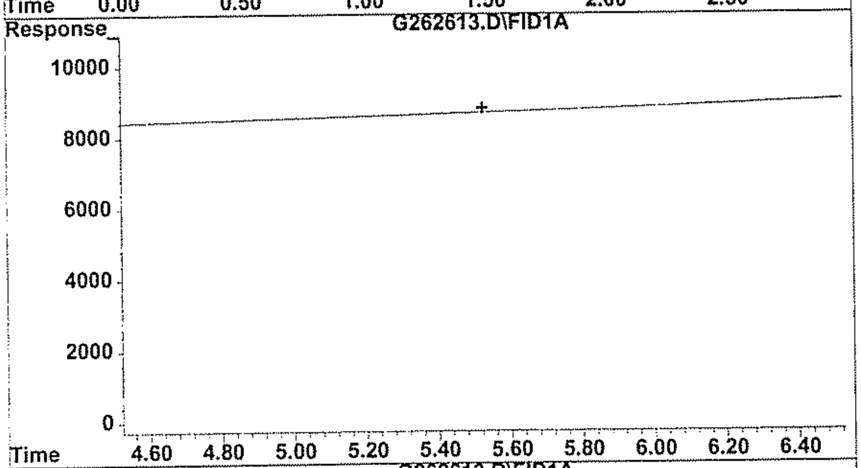
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





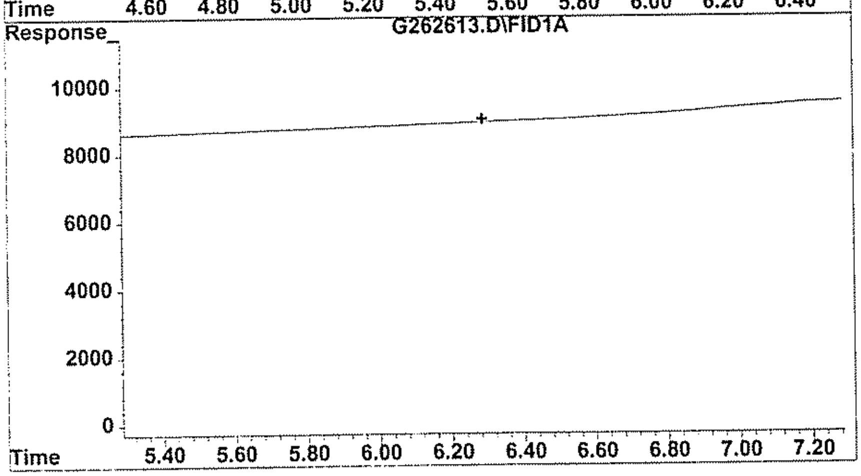
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 231468
Conc: 1480.58 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-064-2/6
Sample Volume :		Lab File ID :	G262615.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	2000	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262615.D Vial: 34
Acq On : 23 Mar 2009 17:58 Operator: TG
Sample : 903069-007DL Inst : GC-G
Misc : OU1-16GW02-0309,CH2M,WATER,10ML,100X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 18:14 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	3207	20.513	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	d
3) T	Ethylene	0.00	0	N.D.	ppb	

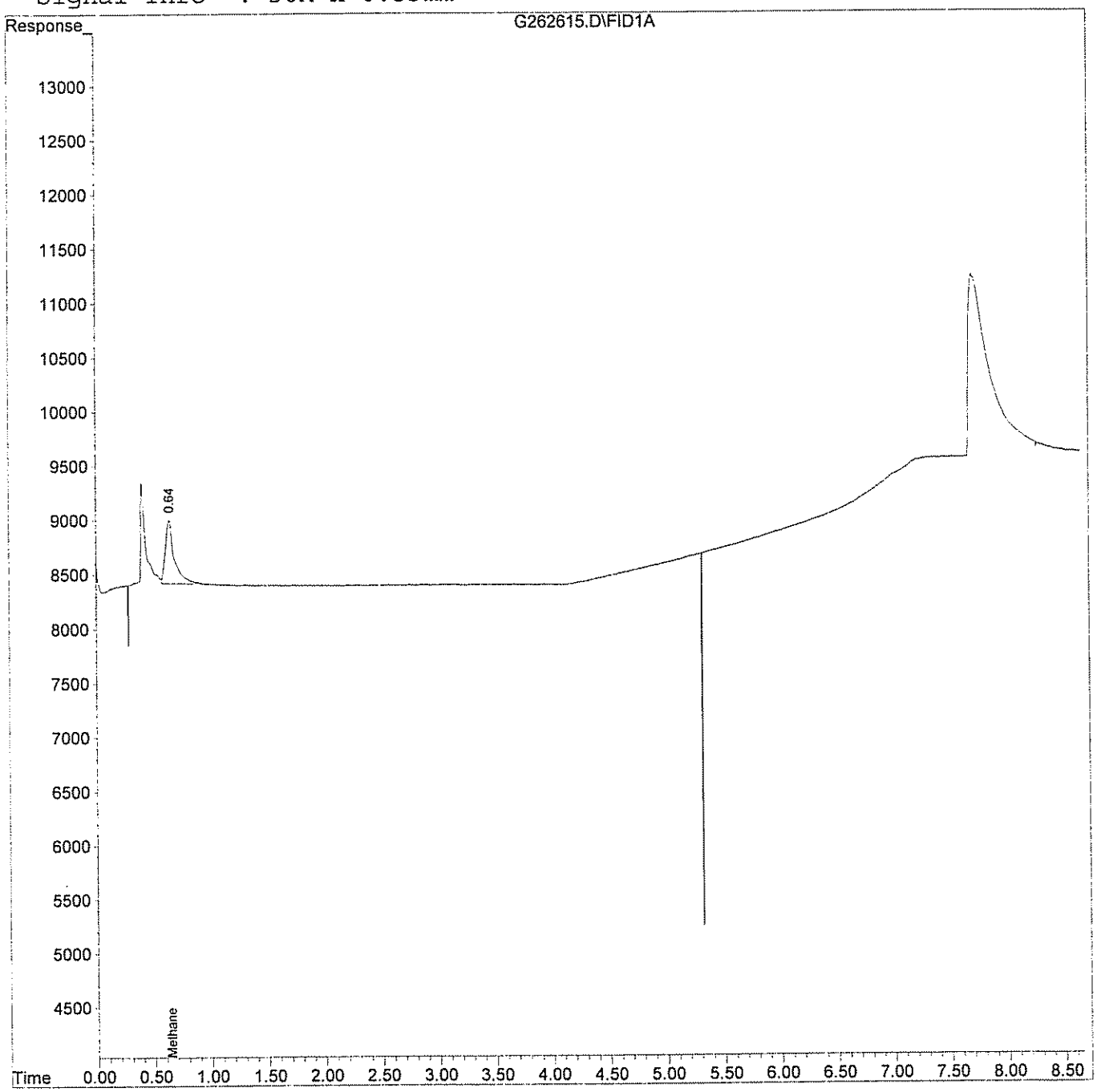
(f)=RT Delta > 1/2 Window (m)=manual int.

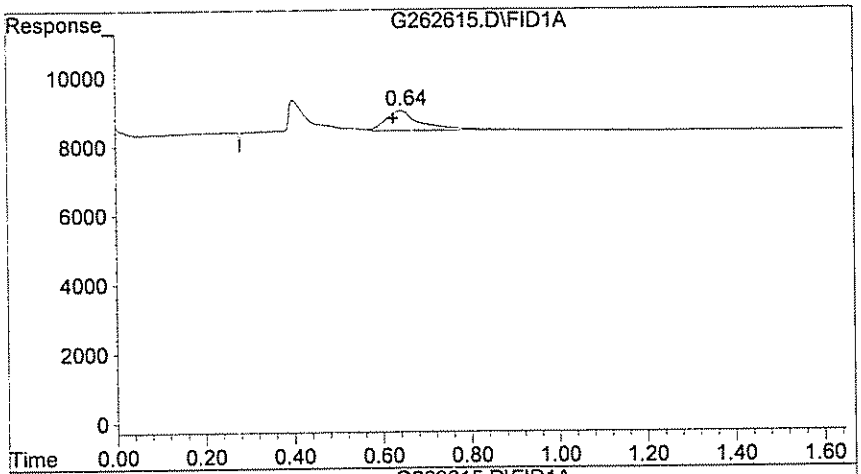
Quantitation Report

Data File : H:\GCDATA\G\032309\G262615.D Vial: 34
Acq On : 23 Mar 2009 17:58 Operator: TG
Sample : 903069-007DL Inst : GC-G
Misc : OU1-16GW02-0309,CH2M,WATER,10ML,100X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 18:14 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

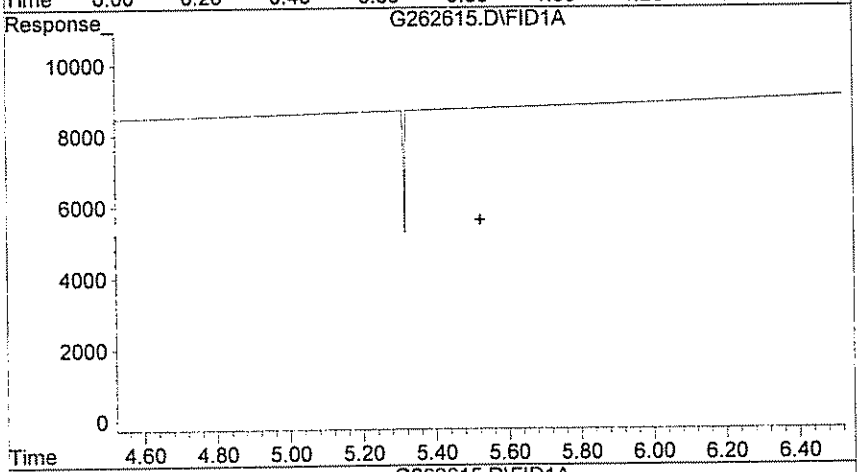
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





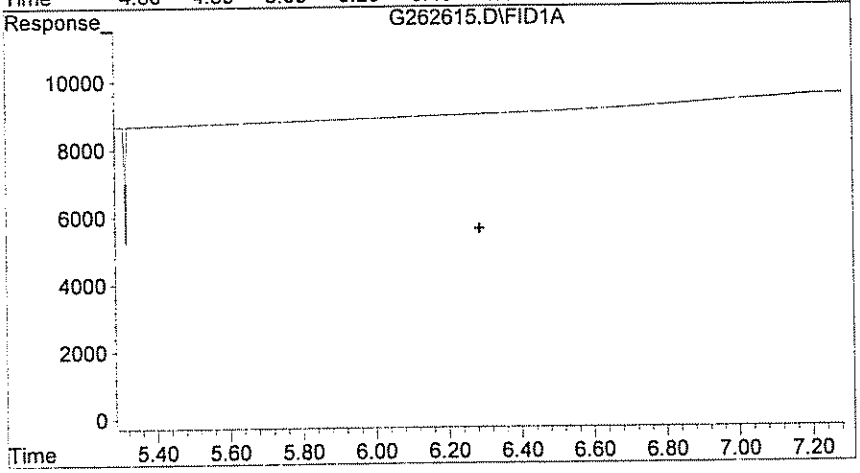
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 3207
Conc: 20.51 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-064-2/6MS
Sample Volume :	.2	Lab File ID :	G262619.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	2600	
74-85-1	Ethene	2400	
74-82-8	Methane	3400	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262619.D Vial: 3
Acq On : 24 Mar 2009 7:42 Operator: TG
Sample : 903069-007MS Inst : GC-G
Misc : OU1-16GW02-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:54 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	5278	33.761	ppb	m
2) T	Ethane	5.55	630	26.568	ppb	
3) T	Ethylene	6.32	709	23.848	ppb	

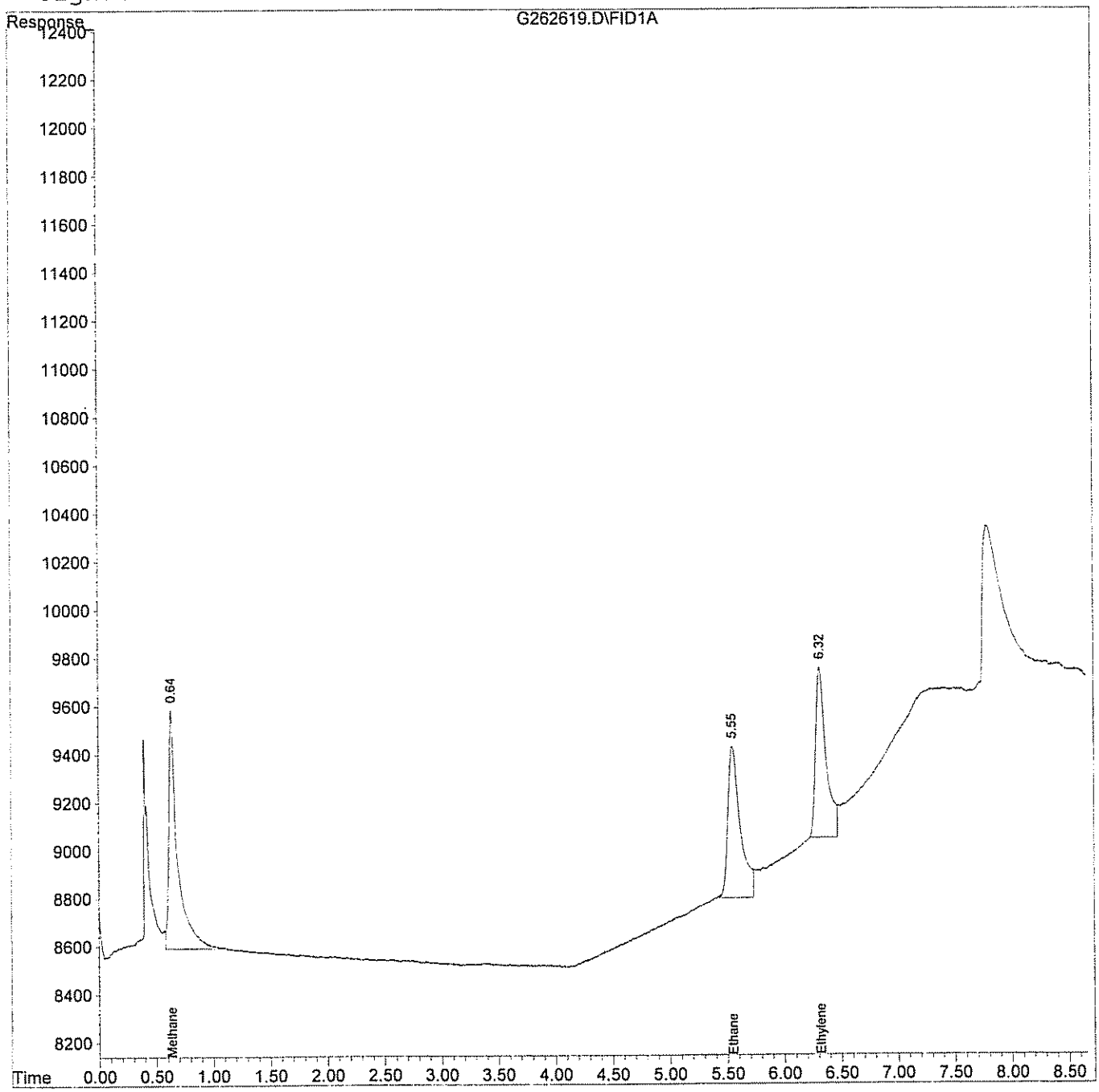
(f)=RT Delta > 1/2 Window (m)=manual integ

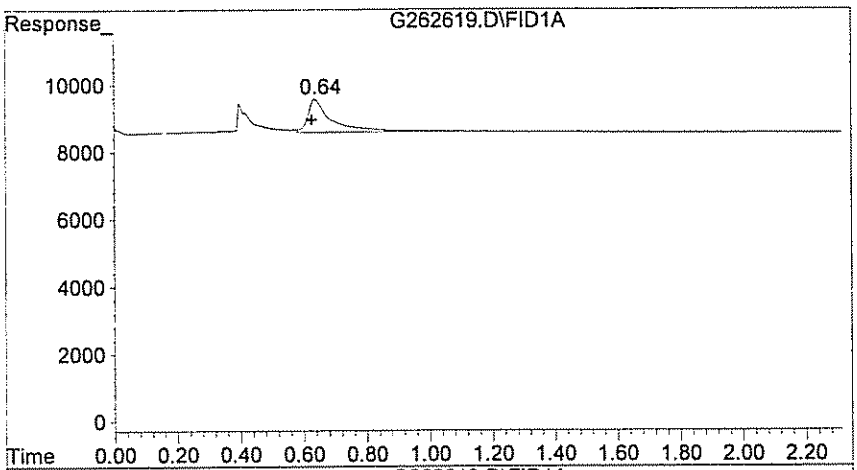
Quantitation Report

Data File : H:\GCDATA\G\032409\G262619.D Vial: 3
Acq On : 24 Mar 2009 7:42 Operator: TG
Sample : 903069-007MS Inst : GC-G
Misc : OU1-16GW02-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:54 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

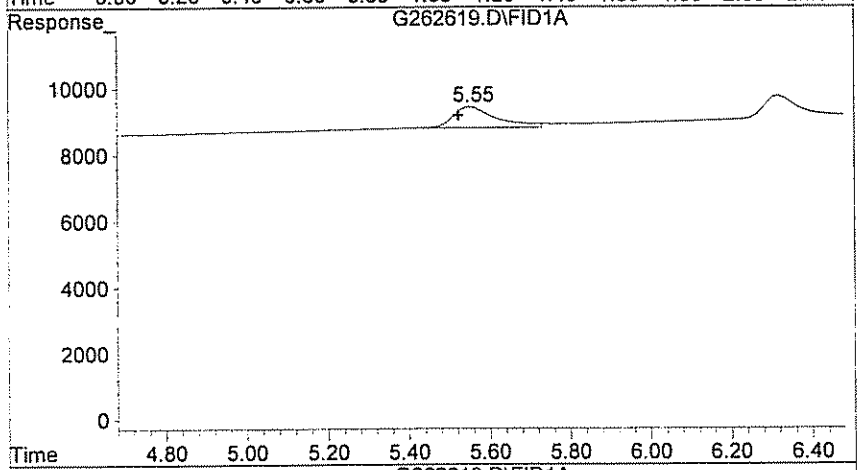
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





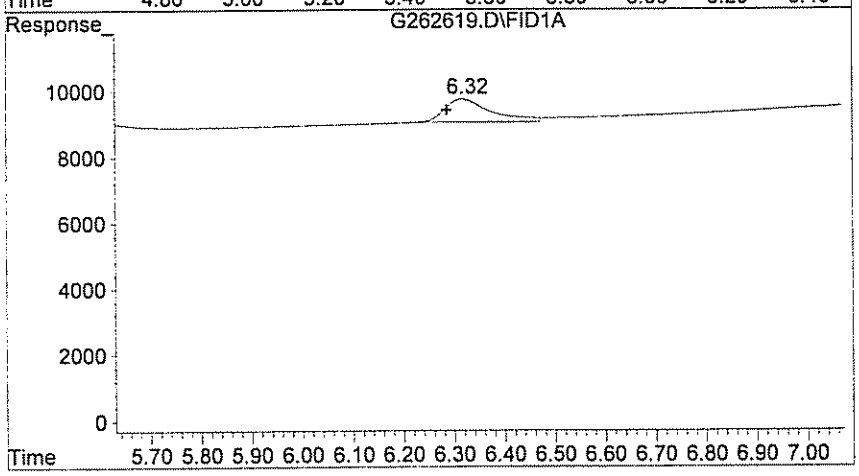
#1 Methane

R.T.:	0.637 min
Delta R.T.:	0.010 min
Response:	5278
Conc:	33.76 ppb m



#2 Ethane

R.T.:	5.547 min
Delta R.T.:	0.023 min
Response:	630
Conc:	26.57 ppb



#3 Ethylene

R.T.:	6.317 min
Delta R.T.:	0.030 min
Response:	709
Conc:	23.85 ppb

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-007-064-2/6MSD
Sample Volume :	.2	Lab File ID :	G262620.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	2700	
74-85-1	Ethene	2400	
74-82-8	Methane	3200	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262620.D Vial: 4
Acq On : 24 Mar 2009 7:56 Operator: TG
Sample : 903069-007MSD Inst : GC-G
Misc : OU1-16GW02-0309,CH2M,WATER,10ML,100X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 8:06 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	5016	32.085	ppb	m
2) T	Ethane	5.55	645	27.200	ppb	m
3) T	Ethylene	6.32	720	24.218	ppb	m

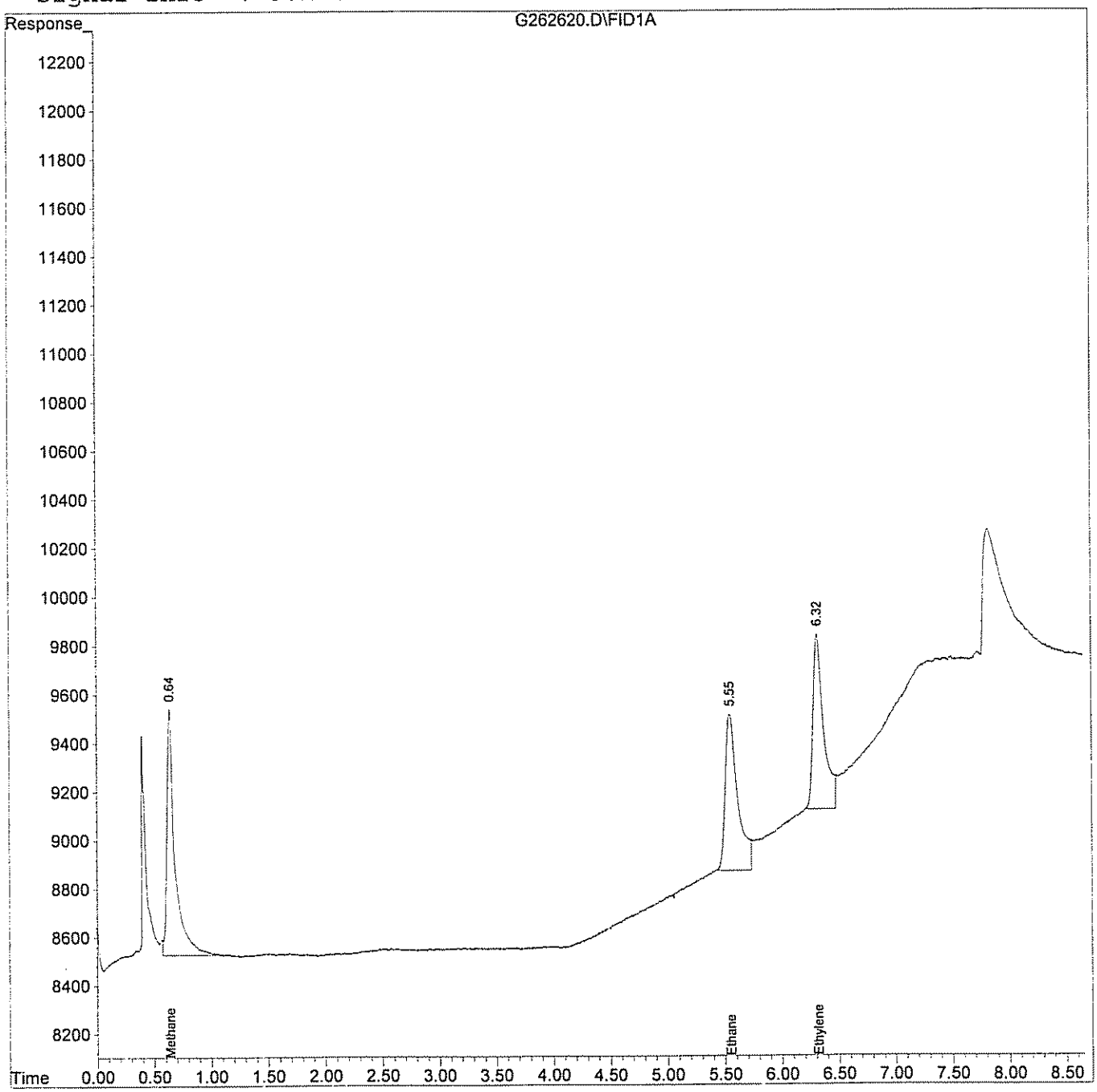
(f)=RT Delta > 1/2 Window (m)=manual int

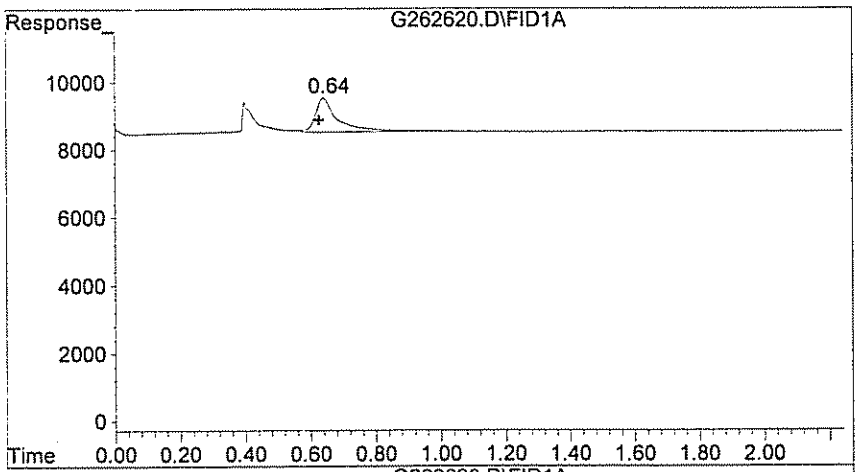
Quantitation Report

Data File : H:\GCDATA\G\032409\G262620.D Vial: 4
Acq On : 24 Mar 2009 7:56 Operator: TG
Sample : 903069-007MSD Inst : GC-G
Misc : OU1-16GW02-0309,CH2M,WATER,10ML,100X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 8:06 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

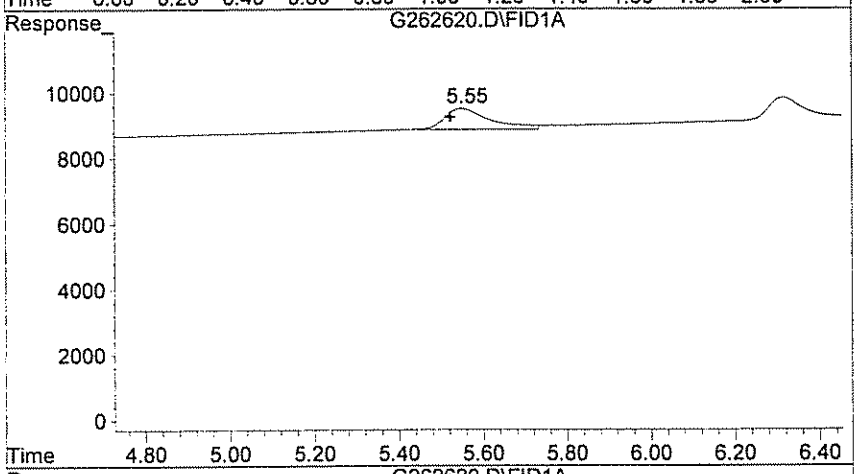
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





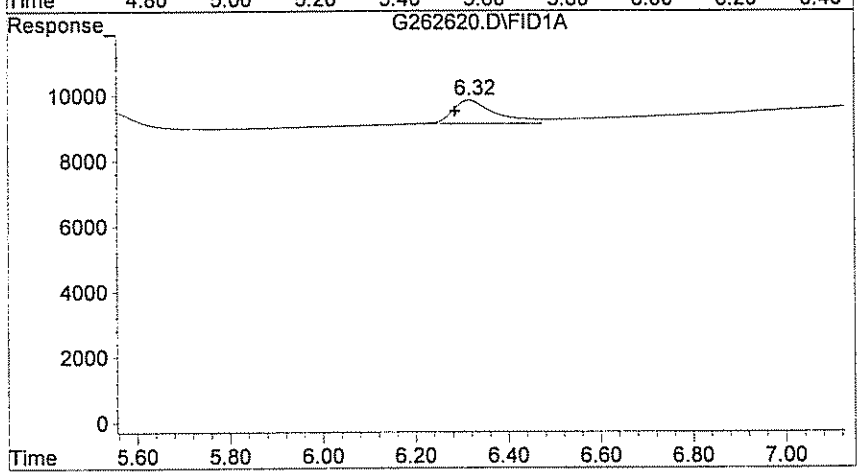
#1 Methane

R.T.:	0.640 min
Delta R.T.:	0.013 min
Response:	5016
Conc:	32.08 ppb m



#2 Ethane

R.T.:	5.550 min
Delta R.T.:	0.027 min
Response:	645
Conc:	27.20 ppb m



#3 Ethylene

R.T.:	6.317 min
Delta R.T.:	0.030 min
Response:	720
Conc:	24.22 ppb m

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-039-1/2
Sample Volume :	10	Lab File ID :	G262621.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	760	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262621.D Vial: 5
Acq On : 24 Mar 2009 8:13 Operator: TG
Sample : 903069-008 Inst : GC-G
Misc : OU1-MW48-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 8:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.64	118608	758.672	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

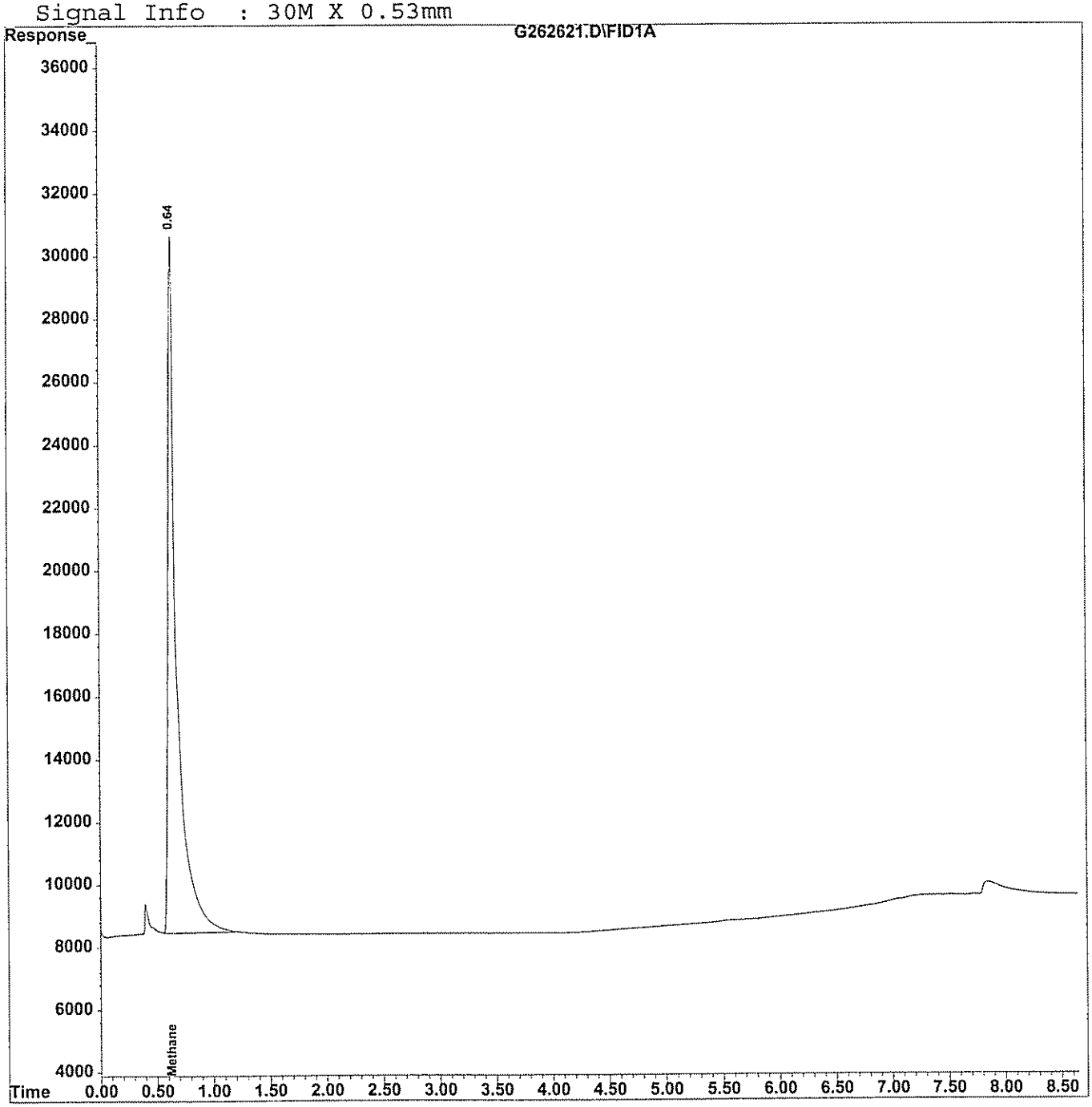
(f)=RT Delta > 1/2 Window (m)=manual int
G262621.D RSK0320.M Thu Mar 26 17:50:09 2009 W28_IOANNIDE Page 1

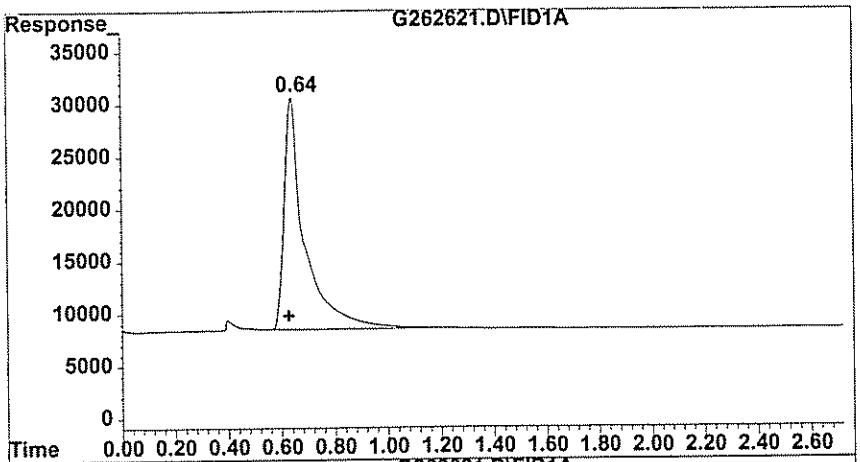
Quantitation Report

Data File : H:\GCDATA\G\032409\G262621.D Vial: 5
Acq On : 24 Mar 2009 8:13 Operator: TG
Sample : 903069-008 Inst : GC-G
Misc : OU1-MW48-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 8:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

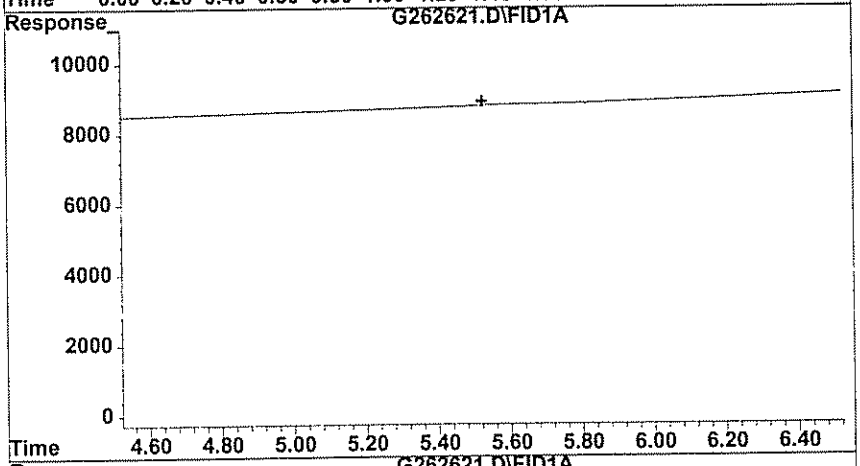
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





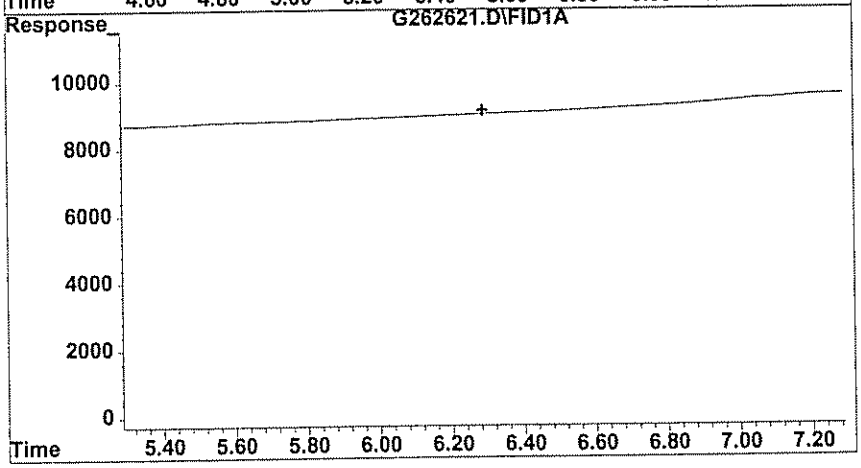
#1 Methane

R.T.: 0.640 min
Delta R.T.: 0.013 min
Response: 118608
Conc: 758.67 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW48-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-008-040-2/2
Sample Volume :	.2	Lab File ID :	G262623.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	310	U
74-85-1	Ethene	290	U
74-82-8	Methane	610	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262623.D Vial: 7
Acq On : 24 Mar 2009 8:50 Operator: TG
Sample : 903069-008DL Inst : GC-G
Misc : OU1-MW48-0309,CH2M,WATER,10ML,50X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 9:00 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	1896	12.128	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

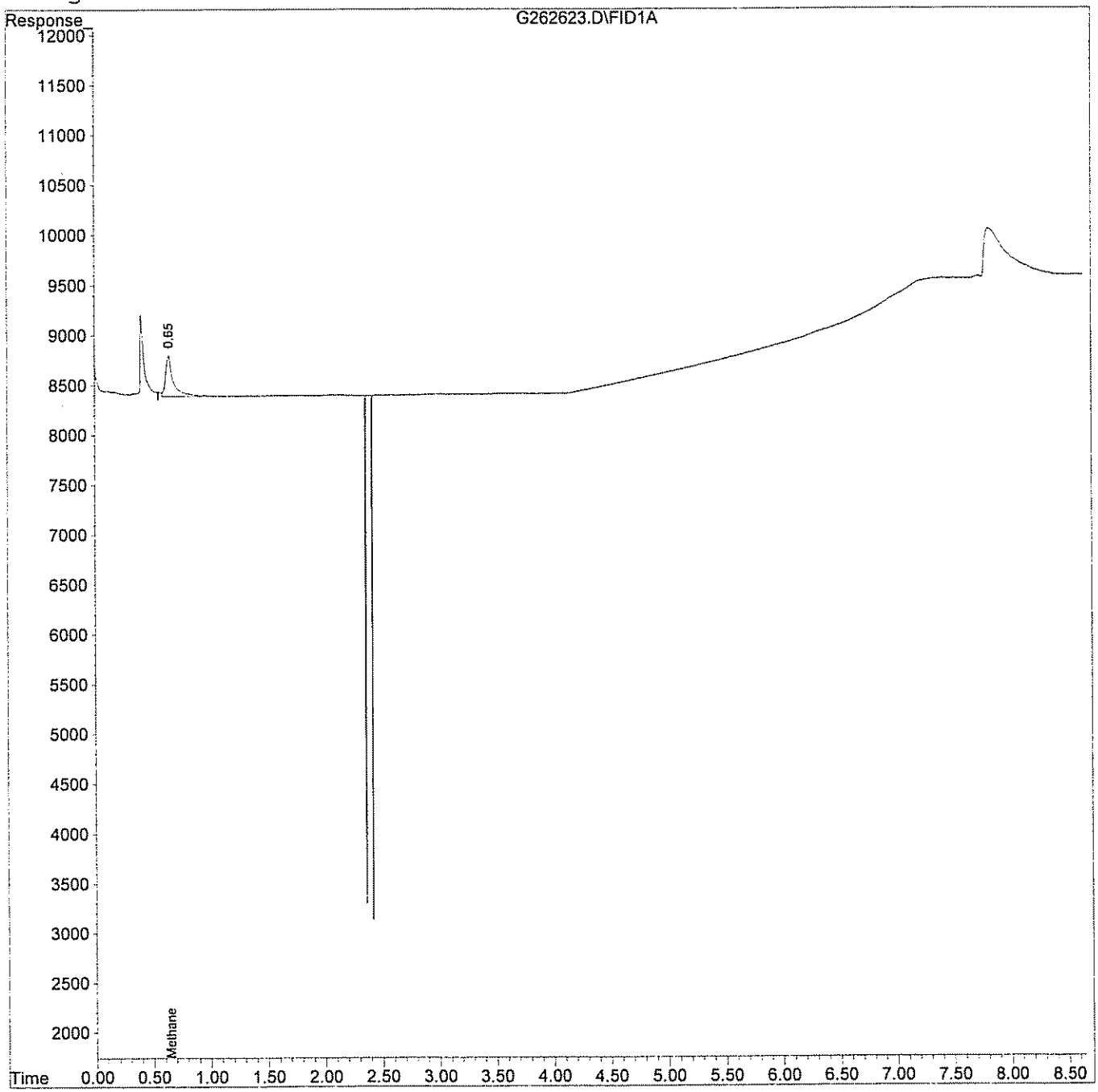
(f)=RT Delta > 1/2 Window (m)=manual int

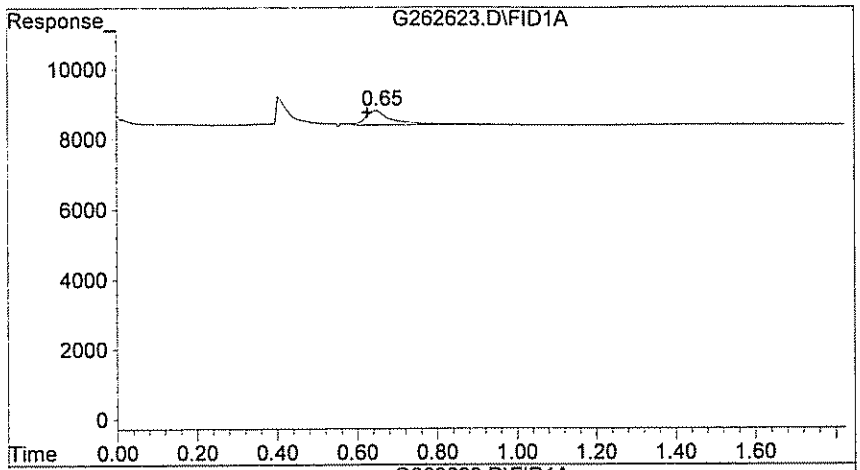
Quantitation Report

Data File : H:\GCDATA\G\032409\G262623.D Vial: 7
Acq On : 24 Mar 2009 8:50 Operator: TG
Sample : 903069-008DL Inst : GC-G
Misc : OU1-MW48-0309,CH2M,WATER,10ML,50X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 9:00 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

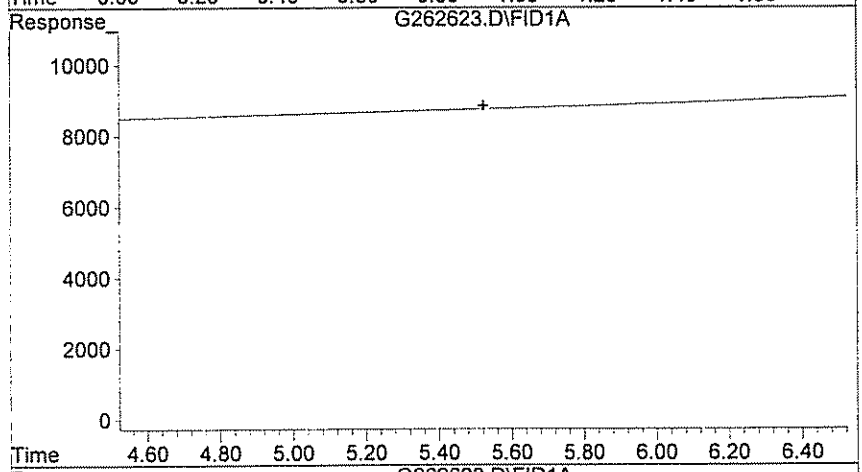
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





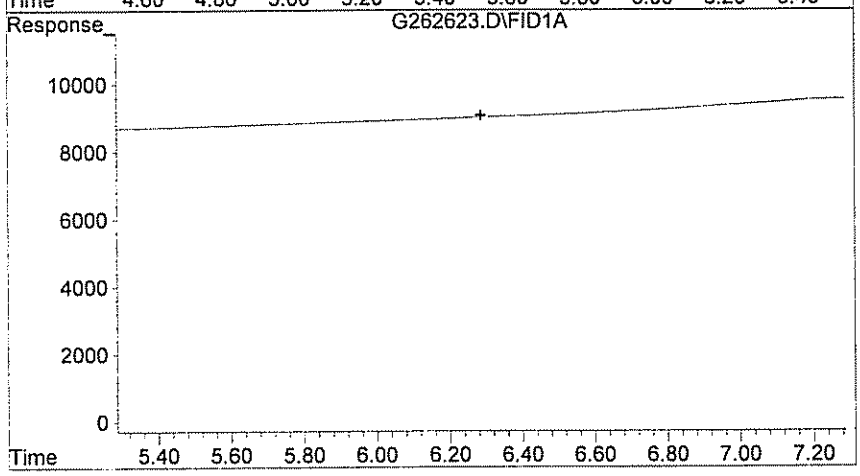
#1 Methane

R.T.:	0.650 min
Delta R.T.:	0.023 min
Response:	1896
Conc:	12.13 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-041-1/2
Sample Volume :	10	Lab File ID :	G262622.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	980	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262622.D Vial: 6
Acq On : 24 Mar 2009 8:32 Operator: TG
Sample : 903069-009 Inst : GC-G
Misc : OU1-MW12-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 8:41 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.64	152514	975.551	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

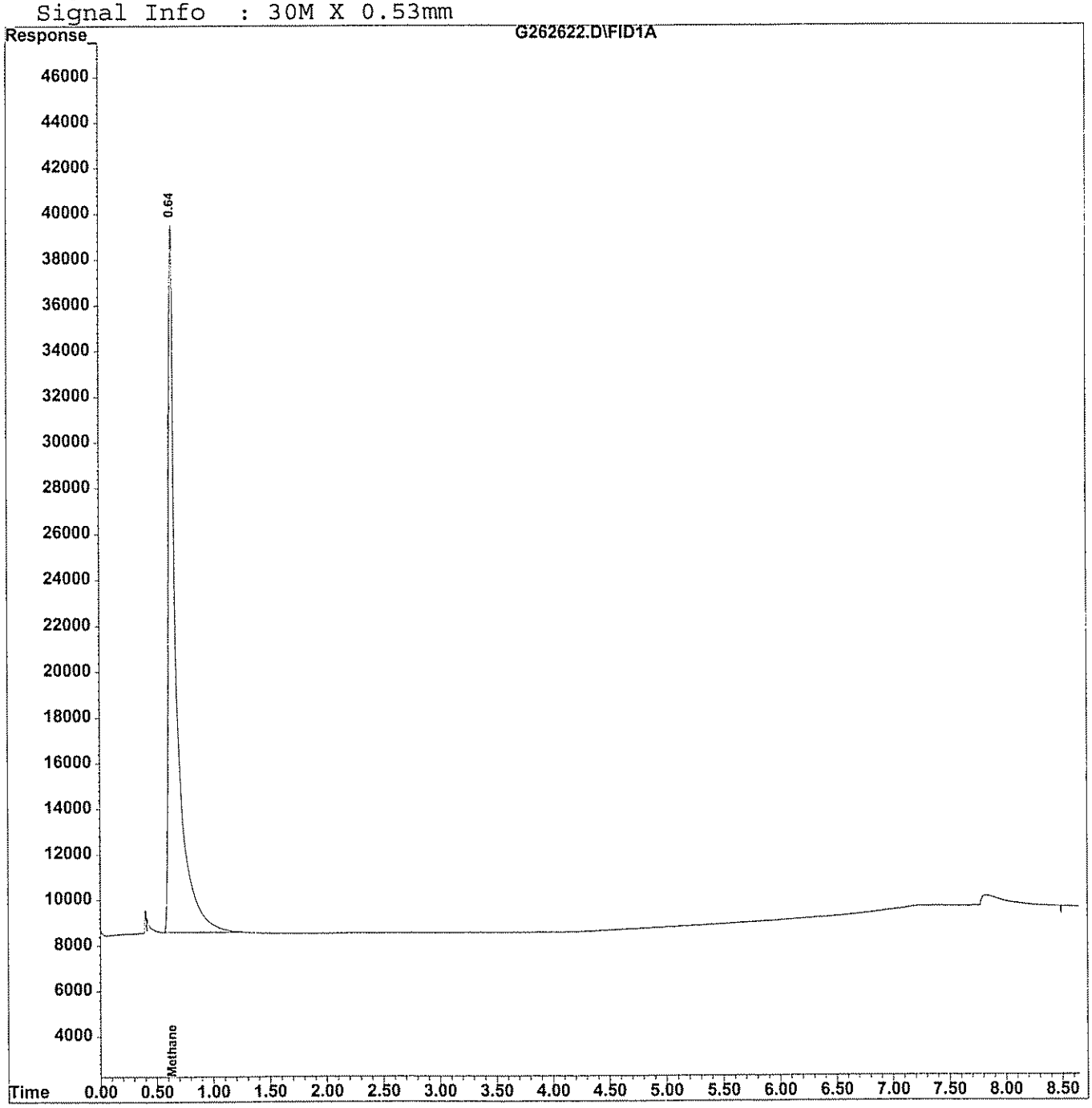
(f)=RT Delta > 1/2 Window (m)=manual int
G262622.D RSK0320.M Thu Mar 26 17:50:22 2009 W28_IOANNIDE Page 1

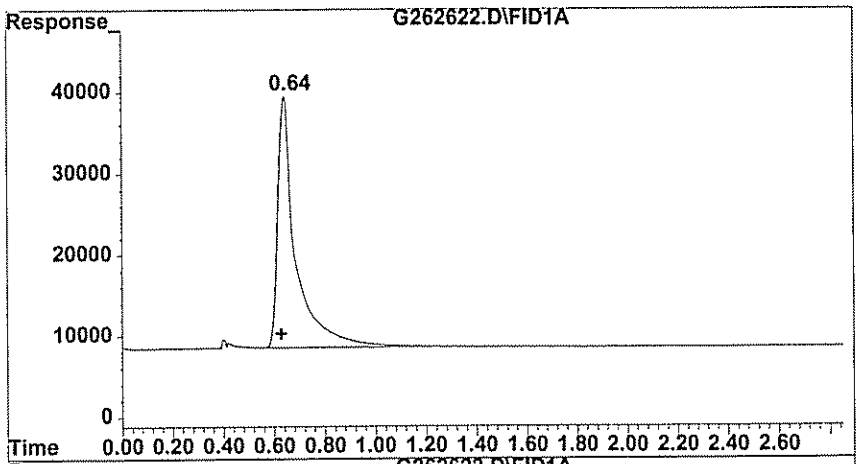
Quantitation Report

Data File : H:\GCDATA\G\032409\G262622.D Vial: 6
Acq On : 24 Mar 2009 8:32 Operator: TG
Sample : 903069-009 Inst : GC-G
Misc : OU1-MW12-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 8:41 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

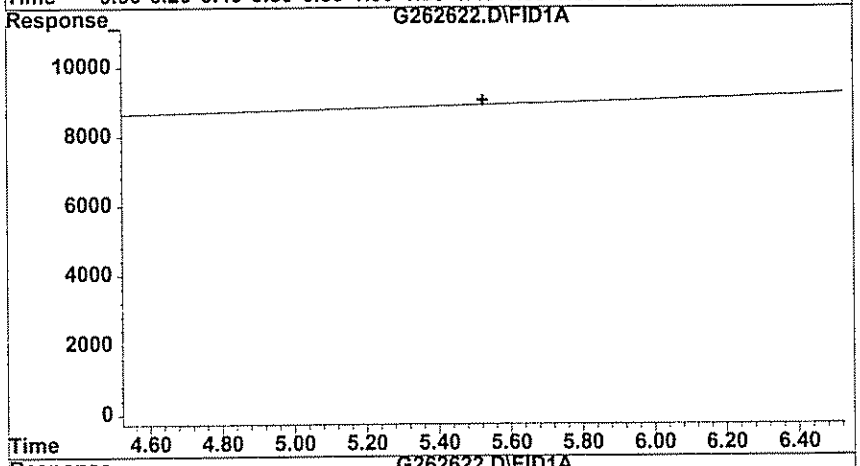
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





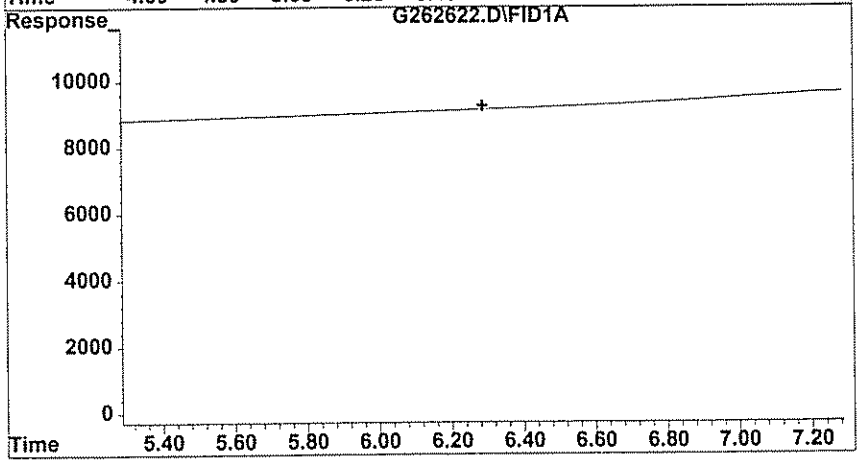
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 152514
Conc: 975.55 ppb



#2 Ethylene

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW12-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-009-042-2/2
Sample Volume :	.2	Lab File ID :	G262624.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	310	U
74-85-1	Ethene	290	U
74-82-8	Methane	470	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262624.D Vial: 8
Acq On : 24 Mar 2009 9:04 Operator: TG
Sample : 903069-009DL Inst : GC-G
Misc : OU1-MW12-0309,CH2M,WATER,10ML,50X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 9:14 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	1462	9.352	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

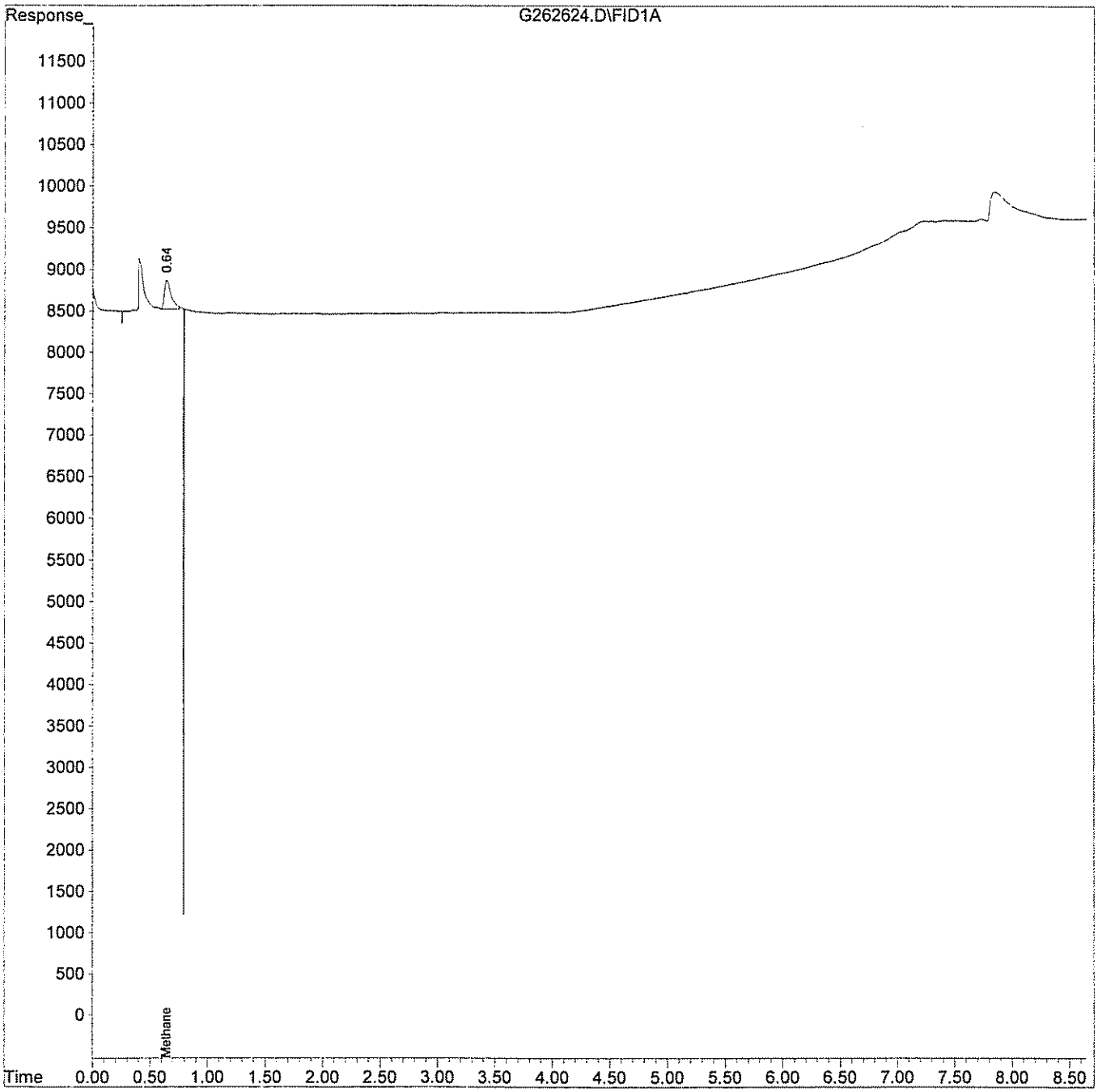
(f)=RT Delta > 1/2 Window (m)=manual int

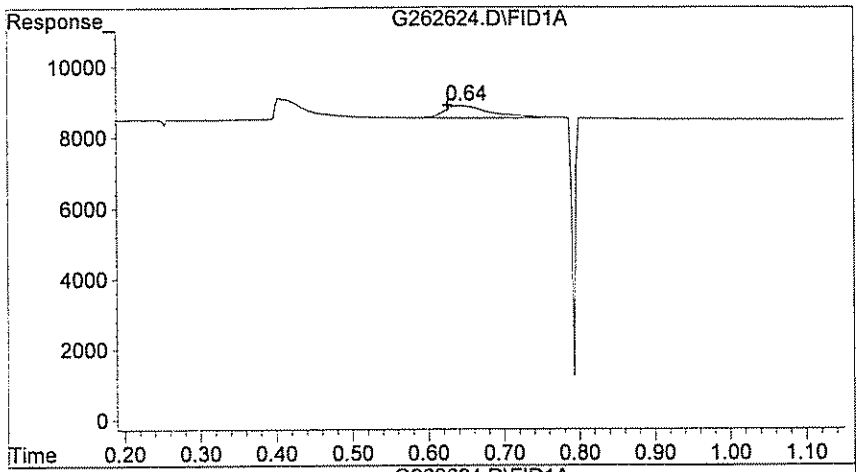
Quantitation Report

Data File : H:\GCDATA\G\032409\G262624.D Vial: 8
Acq On : 24 Mar 2009 9:04 Operator: TG
Sample : 903069-009DL Inst : GC-G
Misc : OU1-MW12-0309,CH2M,WATER,10ML,50X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 9:14 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

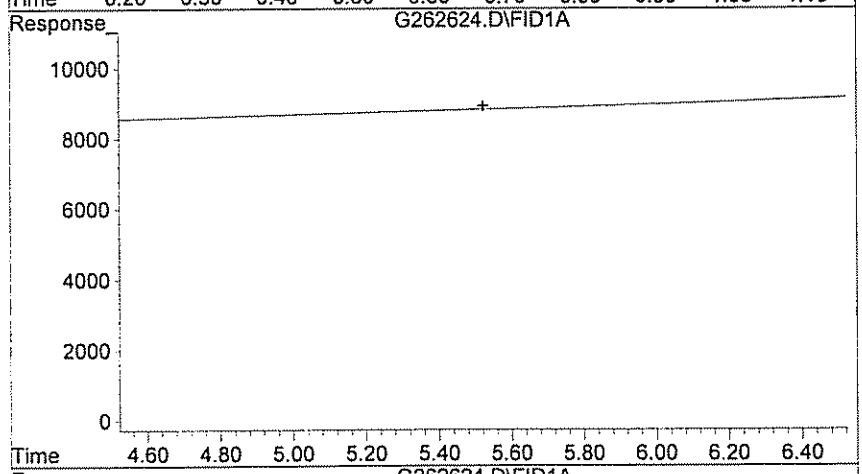
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





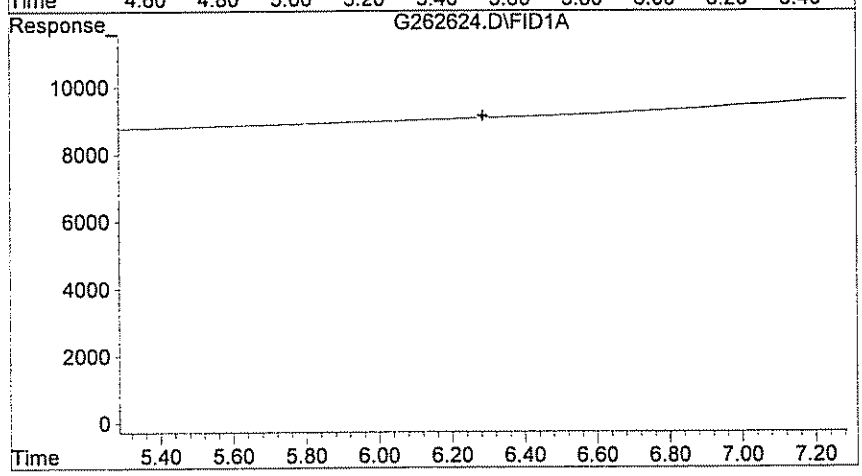
#1 Methane

R.T.:	0.643 min
Delta R.T.:	0.017 min
Response:	1462
Conc:	9.35 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009

Calibration Files
1 =G262567.D 2 =G262568.D 10 =G262571.D
5 =G262570.D 4 =G262569.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	1.844	1.715	1.208	1.507	1.544	1.563 E2	15.39
2)	T	Ethane	2.965	2.600	1.796	2.090	2.406	2.371 E1	19.04
3)	T	Ethylene	3.591	3.466	2.153	2.763	2.893	2.973 E1	19.52

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262567.D Vial: 1
Acq On : 20 Mar 2009 9:07 Operator: TG
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) T Methane	0.63	614	4.075	ppb	m
2) T Ethane	5.48	185	8.853	ppb	m
3) T Ethylene	6.26	209	7.565	ppb	m

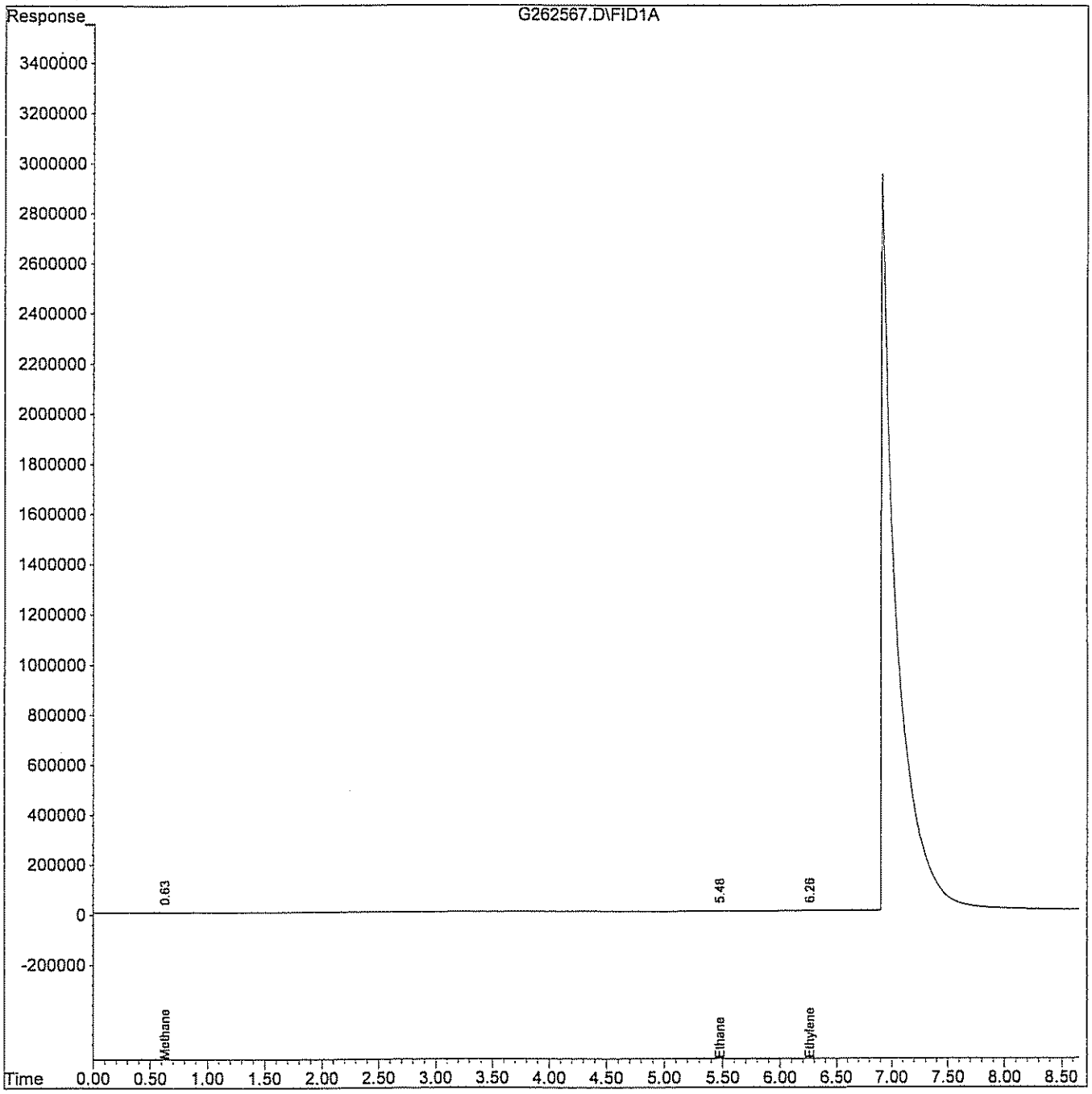
(f)=RT Delta > 1/2 Window (m)=manual Inc.

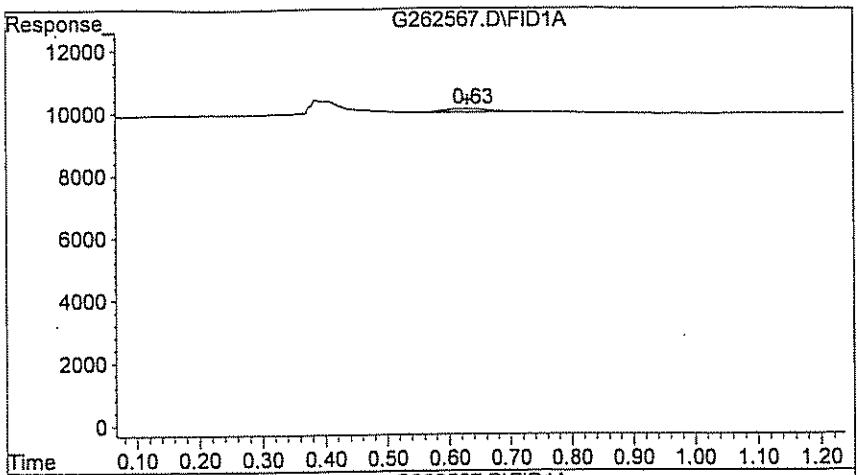
Quantitation Report

Data File : H:\GCDATA\G\032009\G262567.D Vial: 1
Acq On : 20 Mar 2009 9:07 Operator: TG
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

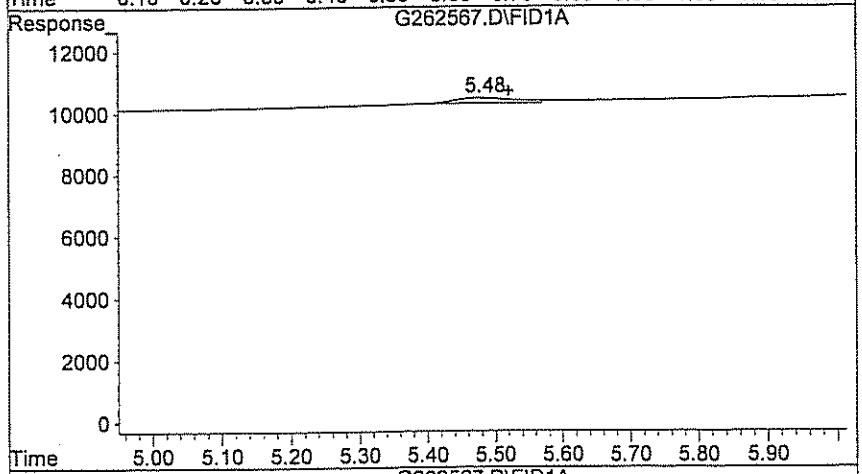
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





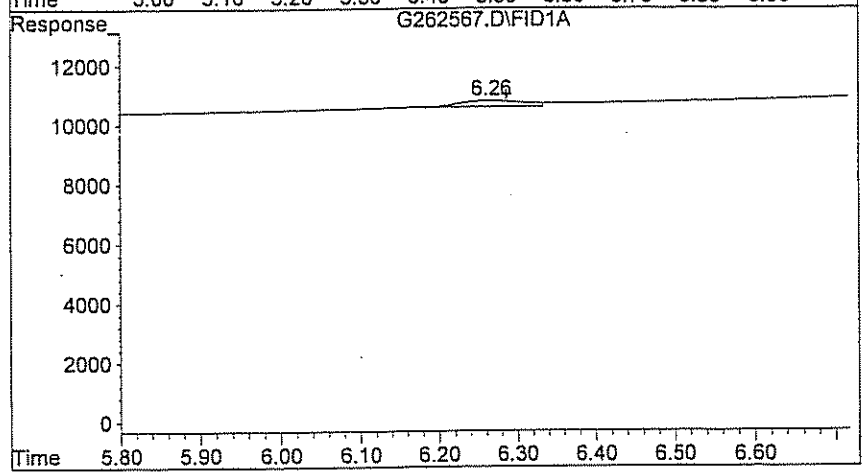
#1 Methane

R.T.: 0.630 min
Delta R.T.: 0.000 min
Response: 614
Conc: 4.08 ppb m



#2 Ethane

R.T.: 5.477 min
Delta R.T.: -0.043 min
Response: 185
Conc: 8.85 ppb m



#3 Ethylene

R.T.: 6.260 min
Delta R.T.: -0.027 min
Response: 209
Conc: 7.56 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262568.D Vial: 2
Acq On : 20 Mar 2009 9:23 Operator: TG
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.61	1149	6.859	ppb	m
2) T	Ethane	5.45	325	12.860	ppb	m
3) T	Ethylene	6.25	402	12.654	ppb	m

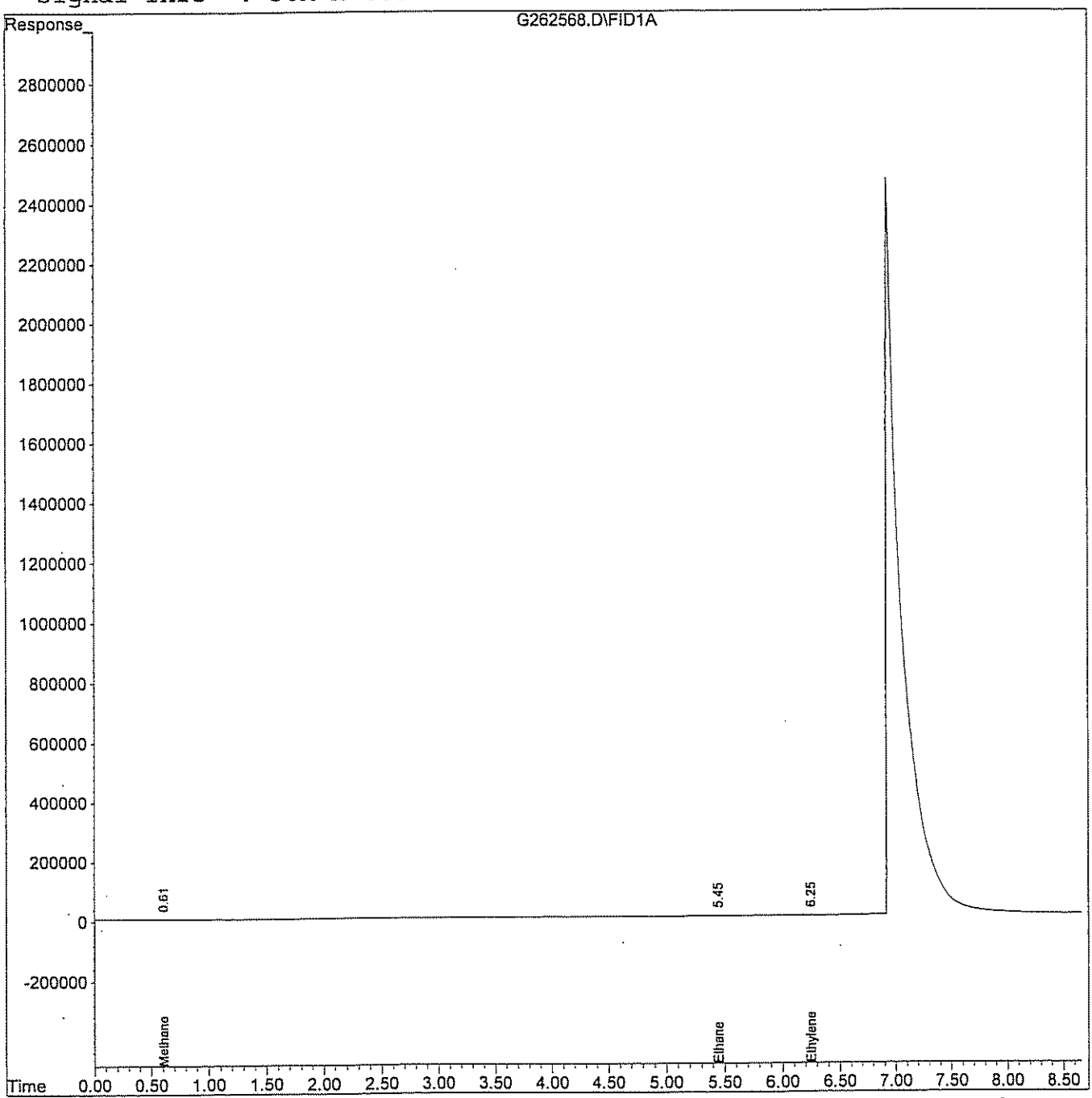
(f)=RT Delta > 1/2 Window (m)=manual int.

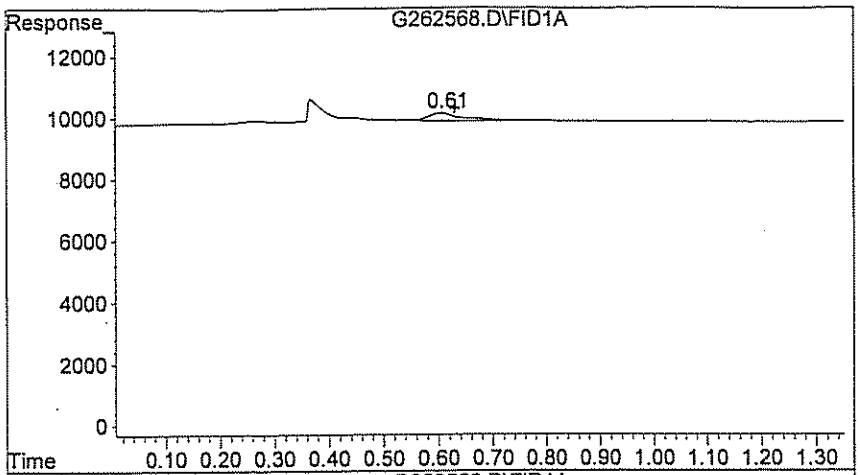
Quantitation Report

Data File : H:\GCDATA\G\032009\G262568.D Vial: 2
Acq On : 20 Mar 2009 9:23 Operator: TG
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

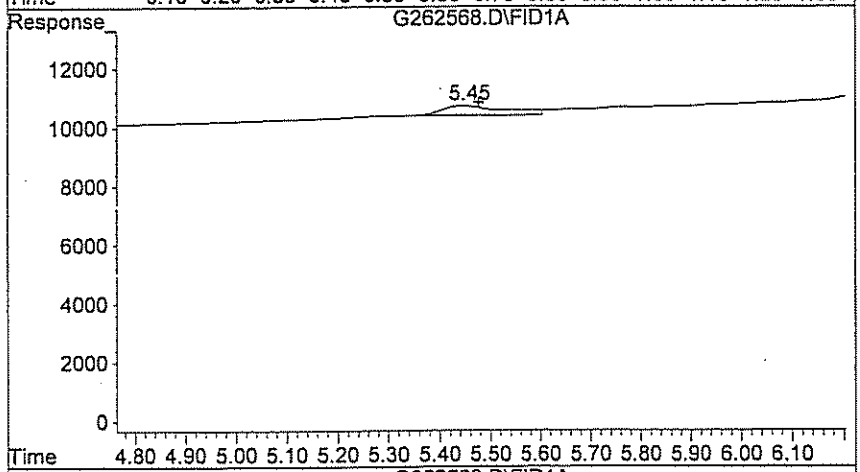
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





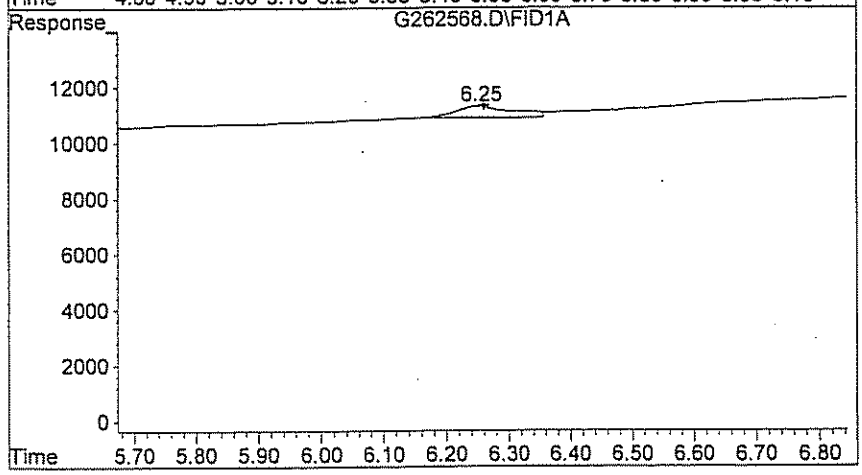
#1 Methane

R.T.: 0.607 min
Delta R.T.: -0.023 min
Response: 1149
Conc: 6.86 ppb m



#2 Ethane

R.T.: 5.447 min
Delta R.T.: -0.030 min
Response: 325
Conc: 12.86 ppb m



#3 Ethylene

R.T.: 6.247 min
Delta R.T.: -0.013 min
Response: 402
Conc: 12.65 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262569.D
Acq On : 20 Mar 2009 9:44
Sample : CAL04
Misc : CAL04
IntFile : rteint.p
Quant Time: Mar 20 10:32 2009 Quant Results File: RSK0320.RES

Vial: 3
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.62	2053	12.159	ppb	m
2) T	Ethane	5.51	599	23.476	ppb	m
3) T	Ethylene	6.29	674	20.592	ppb	m

(f)=RT Delta > 1/2 Window
(m)=manual int.

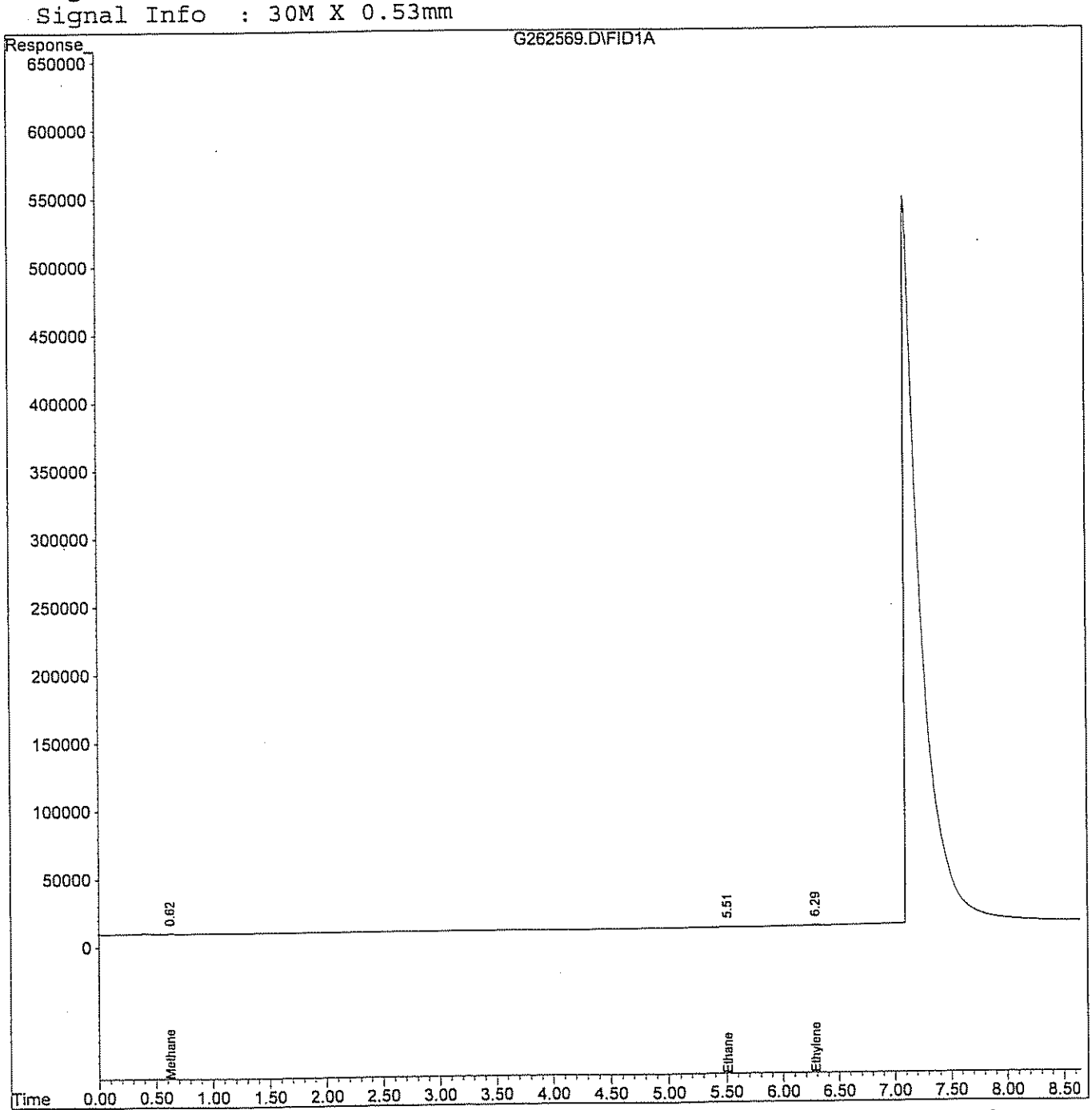
Quantitation Report

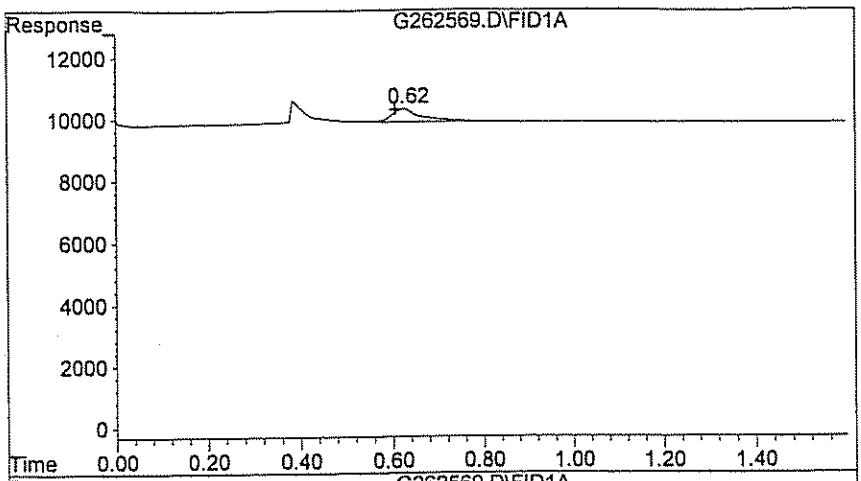
Data File : H:\GCDATA\G\032009\G262569.D
Acq On : 20 Mar 2009 9:44
Sample : CAL04
Misc : CAL04
IntFile : rteint.p
Quant Time: Mar 20 10:32 2009 Quant Results File: RSK0320.RES

Vial: 3
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

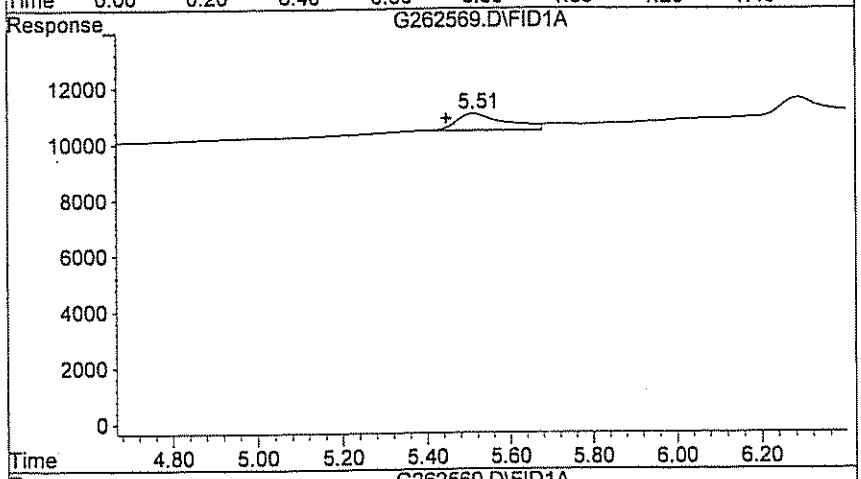
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





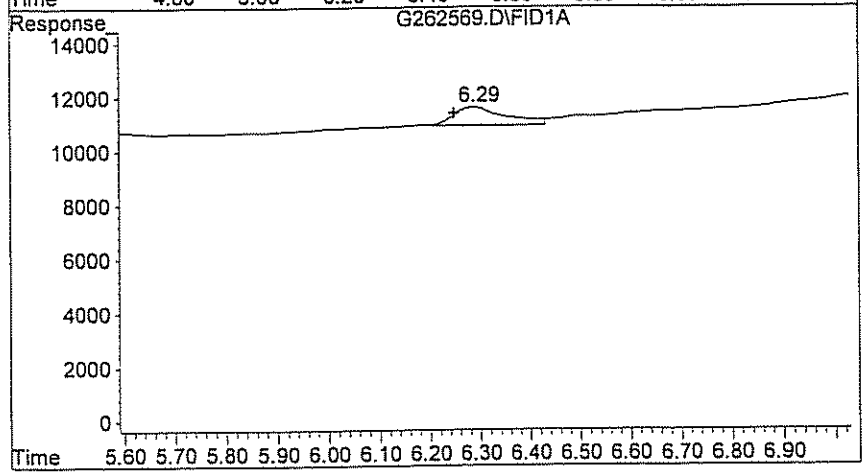
#1 Methane

R.T.: 0.623 min
Delta R.T.: 0.017 min
Response: 2053
Conc: 12.16 ppb m



#2 Ethane

R.T.: 5.510 min
Delta R.T.: 0.063 min
Response: 599
Conc: 23.48 ppb m



#3 Ethylene

R.T.: 6.287 min
Delta R.T.: 0.040 min
Response: 674
Conc: 20.59 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262571.D Vial: 5
Acq On : 20 Mar 2009 10:13 Operator: TG
Sample : CAL010 Inst : GC-G
Misc : CAL010 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	4022	24.343	ppb	m
2) T	Ethane	5.52	1121	44.572	ppb	
3) T	Ethylene	6.29	1253	39.427	ppb	

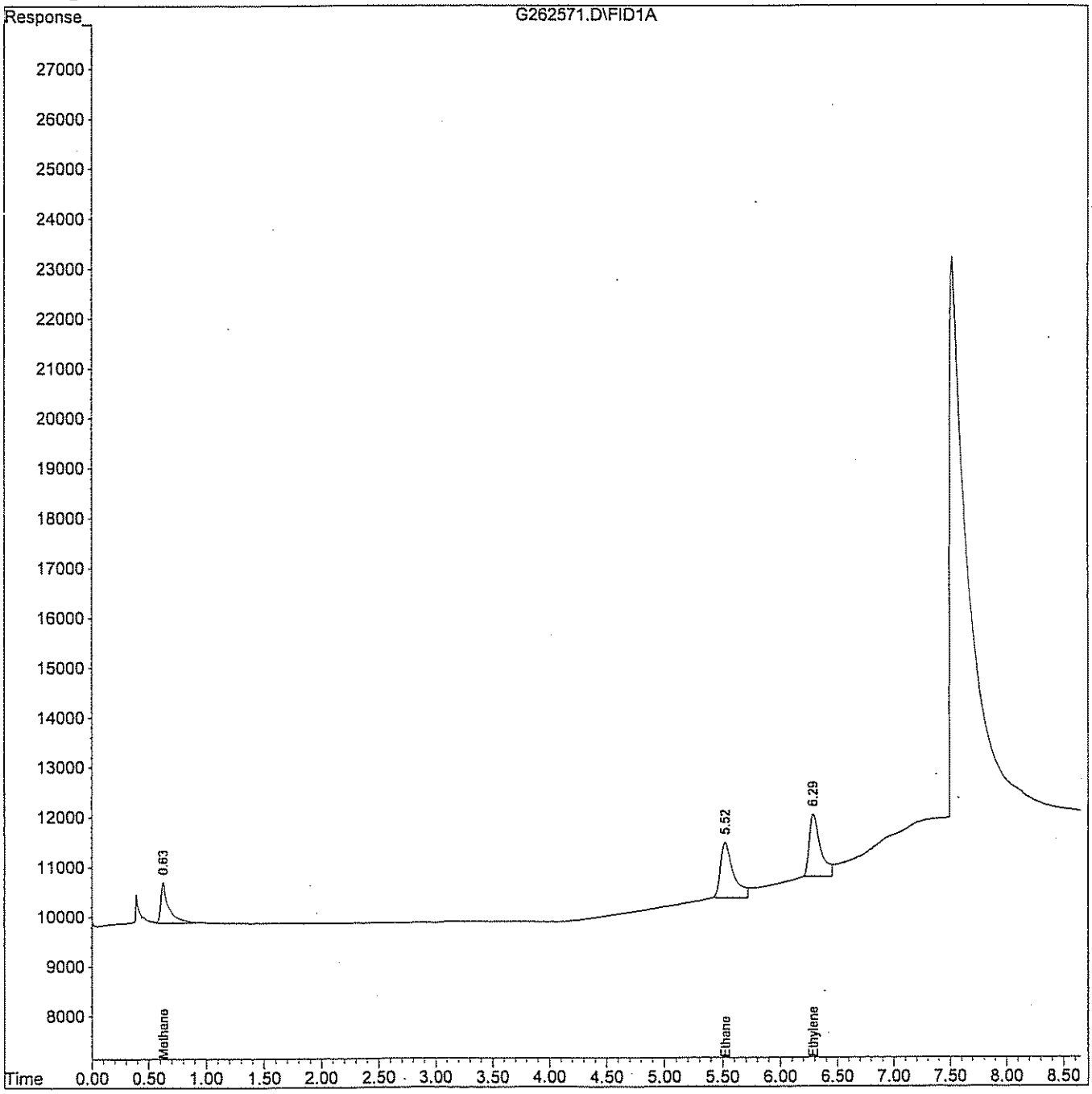
(f)=RT Delta > 1/2 Window (m)=manual int.

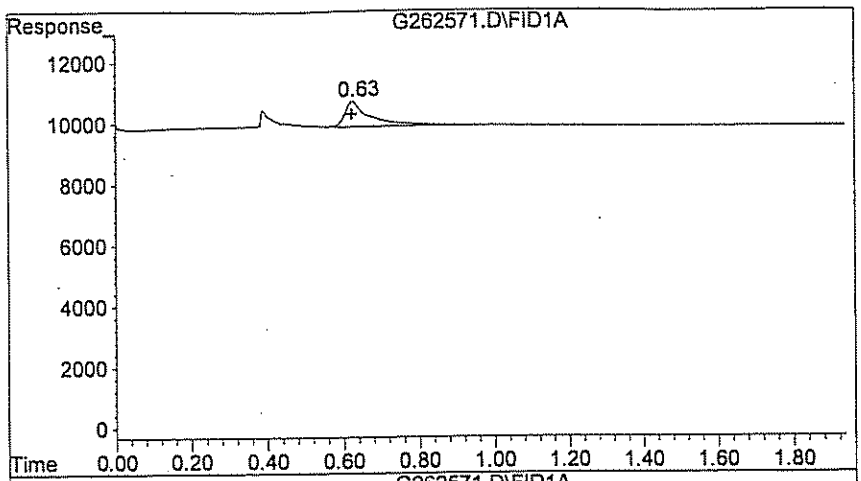
Quantitation Report

Data File : H:\GCDATA\G\032009\G262571.D Vial: 5
Acq On : 20 Mar 2009 10:13 Operator: TG
Sample : CAL010 Inst : GC-G
Misc : CAL010 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

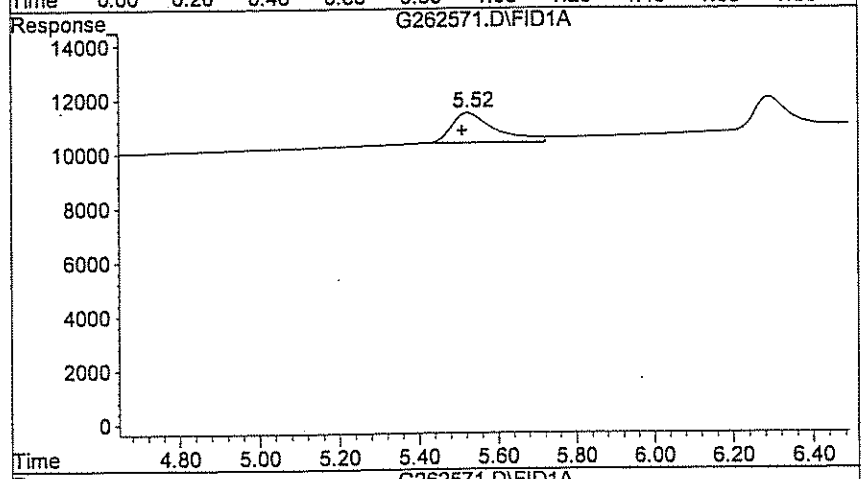
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





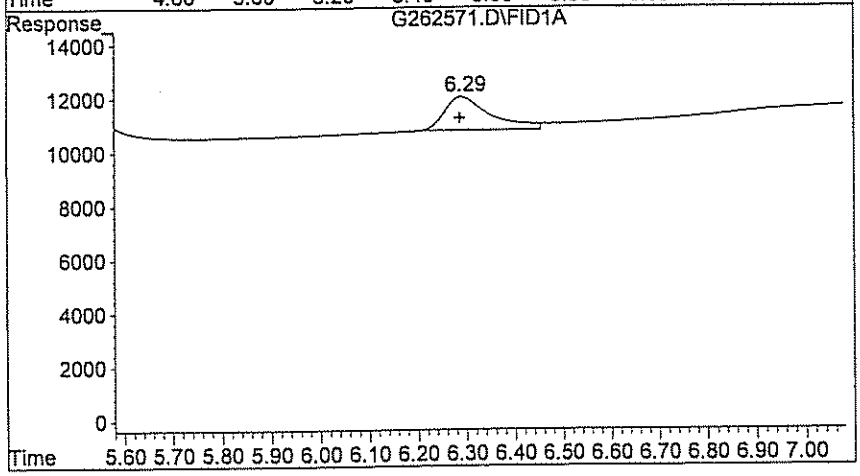
#1 Methane

R.T.: 0.627 min
Delta R.T.: 0.003 min
Response: 4022
Conc: 24.34 ppb m



#2 Ethane

R.T.: 5.523 min
Delta R.T.: 0.013 min
Response: 1121
Conc: 44.57 ppb



#3 Ethylene

R.T.: 6.287 min
Delta R.T.: 0.000 min
Response: 1253
Conc: 39.43 ppb

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262594.D Vial: 13
Acq On : 23 Mar 2009 12:02 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	126.747	18.9	84	-0.24
2	T	Ethane	23.713	20.609	13.1	99	0.02
3	T	Ethylene	29.730	24.605	17.2	89	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262594.D Vial: 13
Acq On : 23 Mar 2009 12:02 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:12 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.39	2104	13.458	ppb	
2) T	Ethane	5.54	643	27.116	ppb	m
3) T	Ethylene	6.31	716	24.083	ppb	m

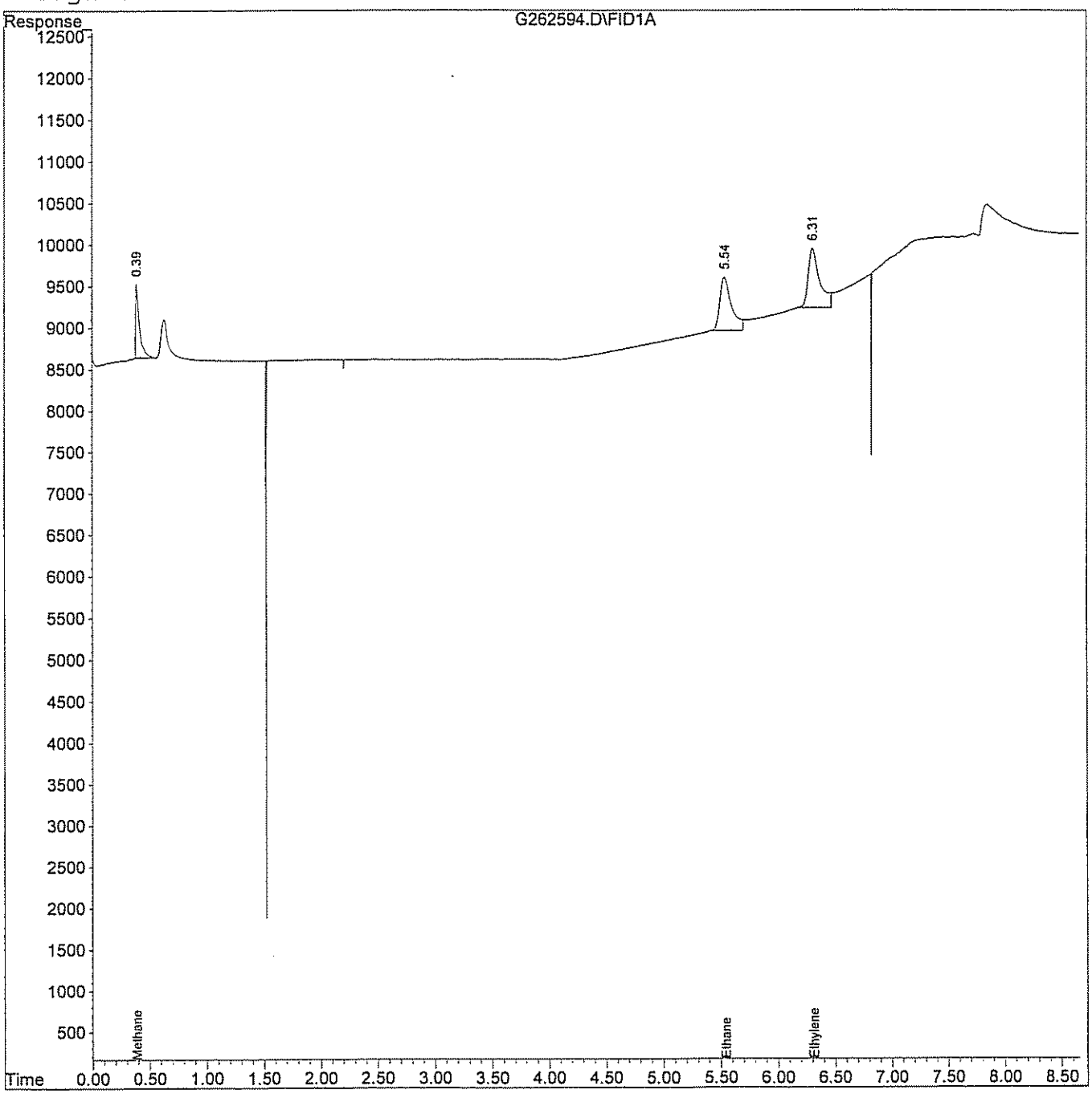
(f)=RT Delta > 1/2 Window (m)=manual int
G262594.D RSK0320.M Mon Mar 23 12:18:04 2009 W28_IOANNIDE Page 1

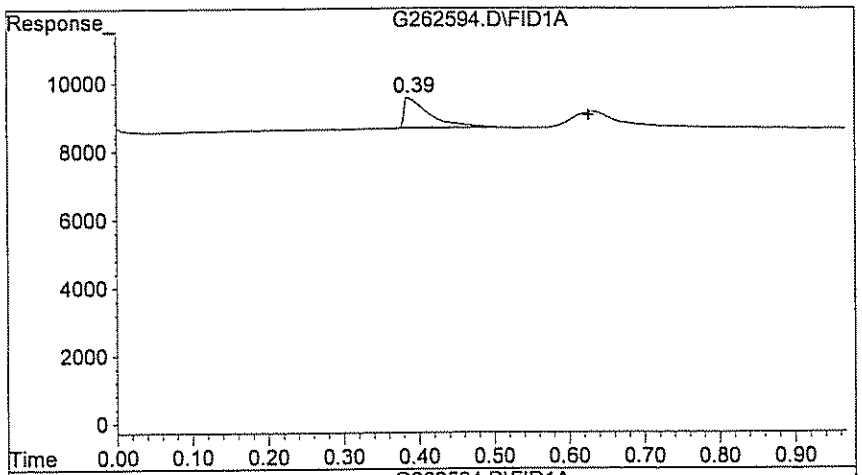
Quantitation Report

Data File : H:\GCDATA\G\032309\G262594.D Vial: 13
Acq On : 23 Mar 2009 12:02 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:12 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

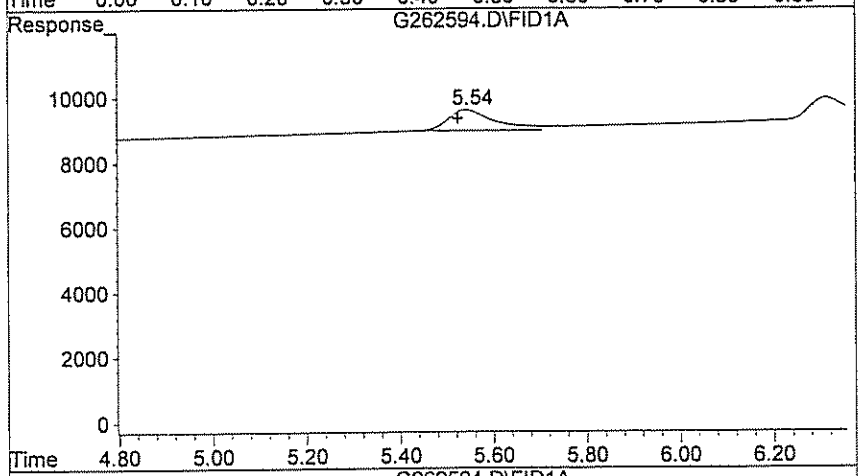
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





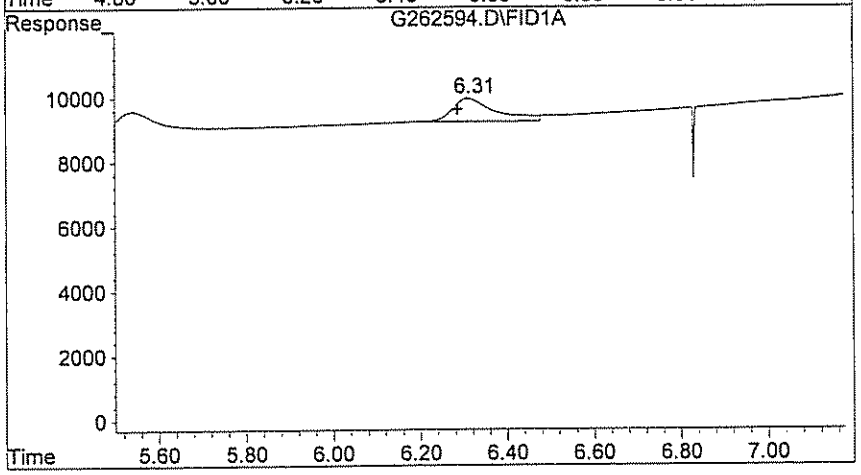
#1 Methane

R.T.: 0.387 min
Delta R.T.: -0.240 min
Response: 2104
Conc: 13.46 ppb



#2 Ethane

R.T.: 5.543 min
Delta R.T.: 0.020 min
Response: 643
Conc: 27.12 ppb m



#3 Ethylene

R.T.: 6.313 min
Delta R.T.: 0.027 min
Response: 716
Conc: 24.08 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262605.D Vial: 24
Acq On : 23 Mar 2009 15:19 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	156.325	0.0	104	0.00
2	T	Ethane	23.713	21.571	9.0	103	0.03
3	T	Ethylene	29.730	24.983	16.0	90	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262605.D Vial: 24
Acq On : 23 Mar 2009 15:19 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 15:29 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) T Methane	0.63	2595	16.599	ppb	m
2) T Ethane	5.55	673	28.381	ppb	
3) T Ethylene	6.32	727	24.453	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual

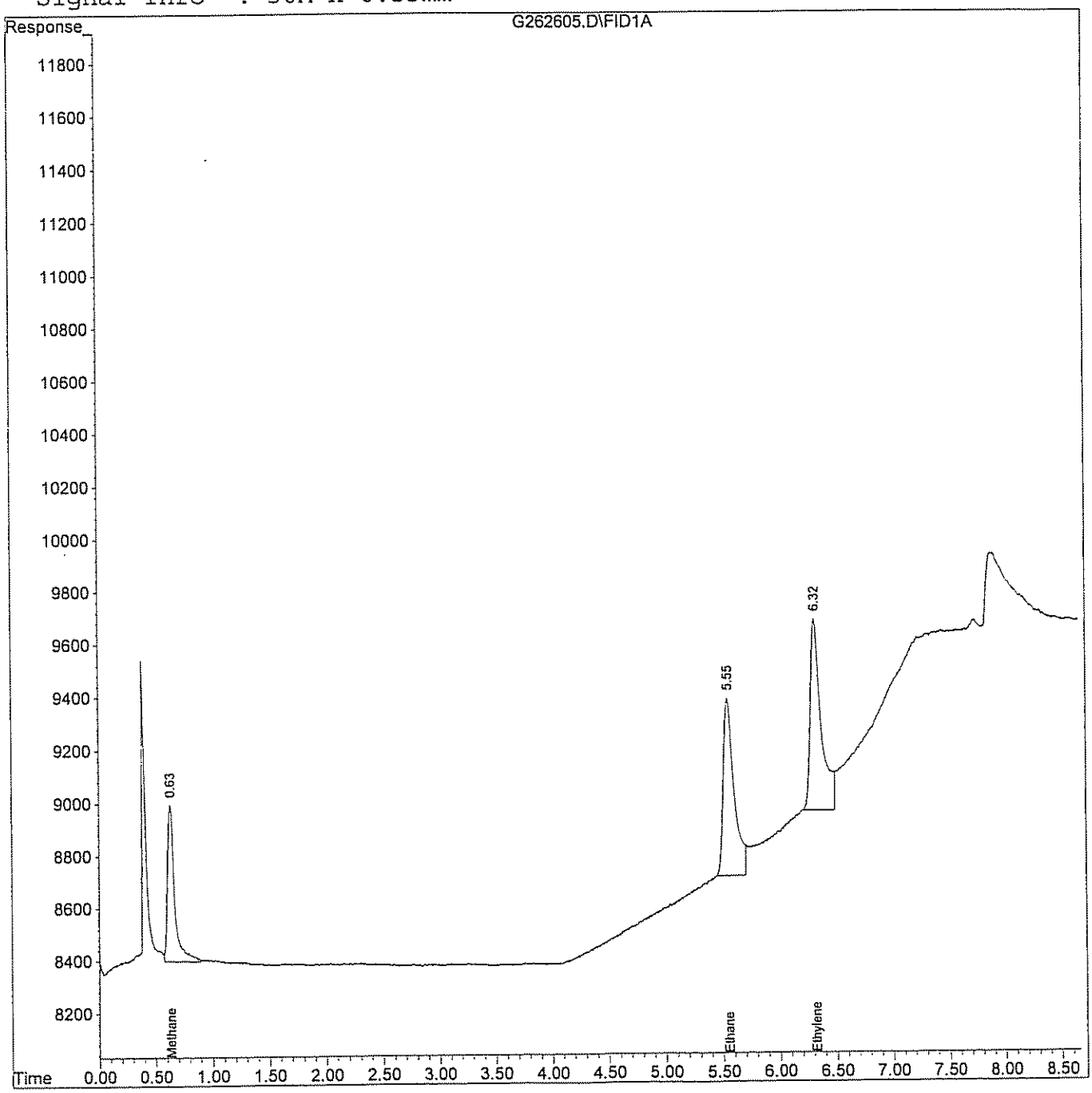
Quantitation Report

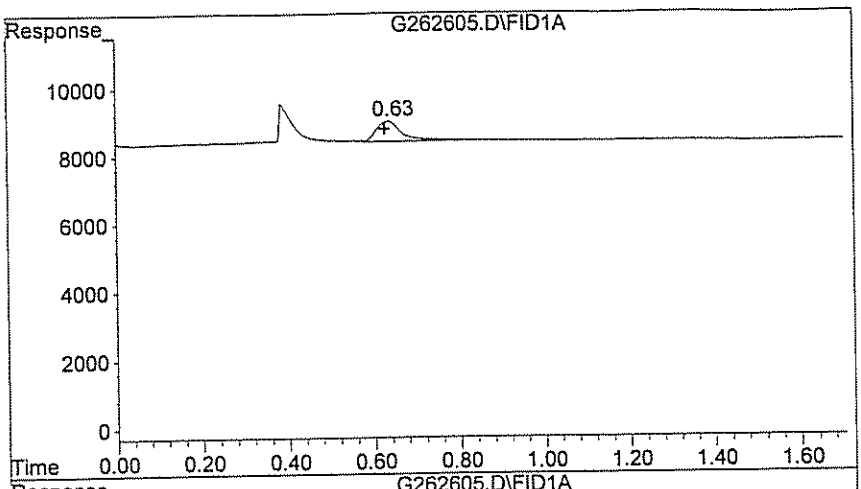
Data File : H:\GCDATA\G\032309\G262605.D
Acq On : 23 Mar 2009 15:19
Sample : CCV
Misc : CCV
IntFile : rteint.p
Quant Time: Mar 23 15:29 2009 Quant Results File: RSK0320.RES

Vial: 24
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

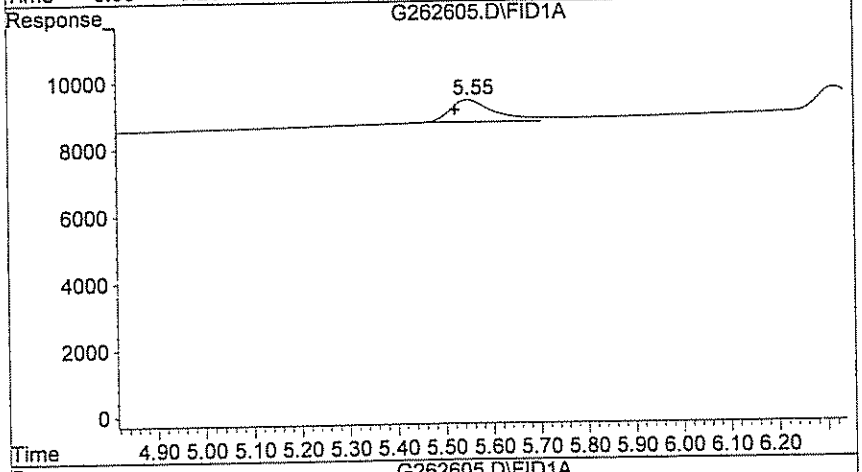
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





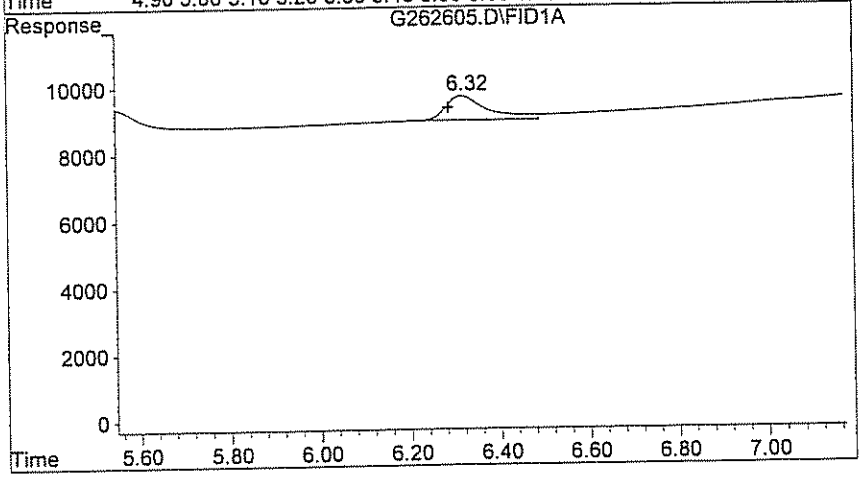
#1 Methane

R.T.: 0.633 min
Delta R.T.: 0.007 min
Response: 2595
Conc: 16.60 ppb m



#2 Ethane

R.T.: 5.550 min
Delta R.T.: 0.027 min
Response: 673
Conc: 28.38 ppb



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.030 min
Response: 727
Conc: 24.45 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032309\G262616.D
Acq On : 23 Mar 2009 18:25
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 35
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	155.181	0.7	103	0.01
2	T	Ethane	23.713	19.679	17.0	94	0.02
3	T	Ethylene	29.730	24.089	19.0	87	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262616.D Vial: 35
Acq On : 23 Mar 2009 18:25 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 18:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	2576	16.477	ppb	m
2) T	Ethane	5.55	614	25.893	ppb	m
3) T	Ethylene	6.31	701	23.579	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual

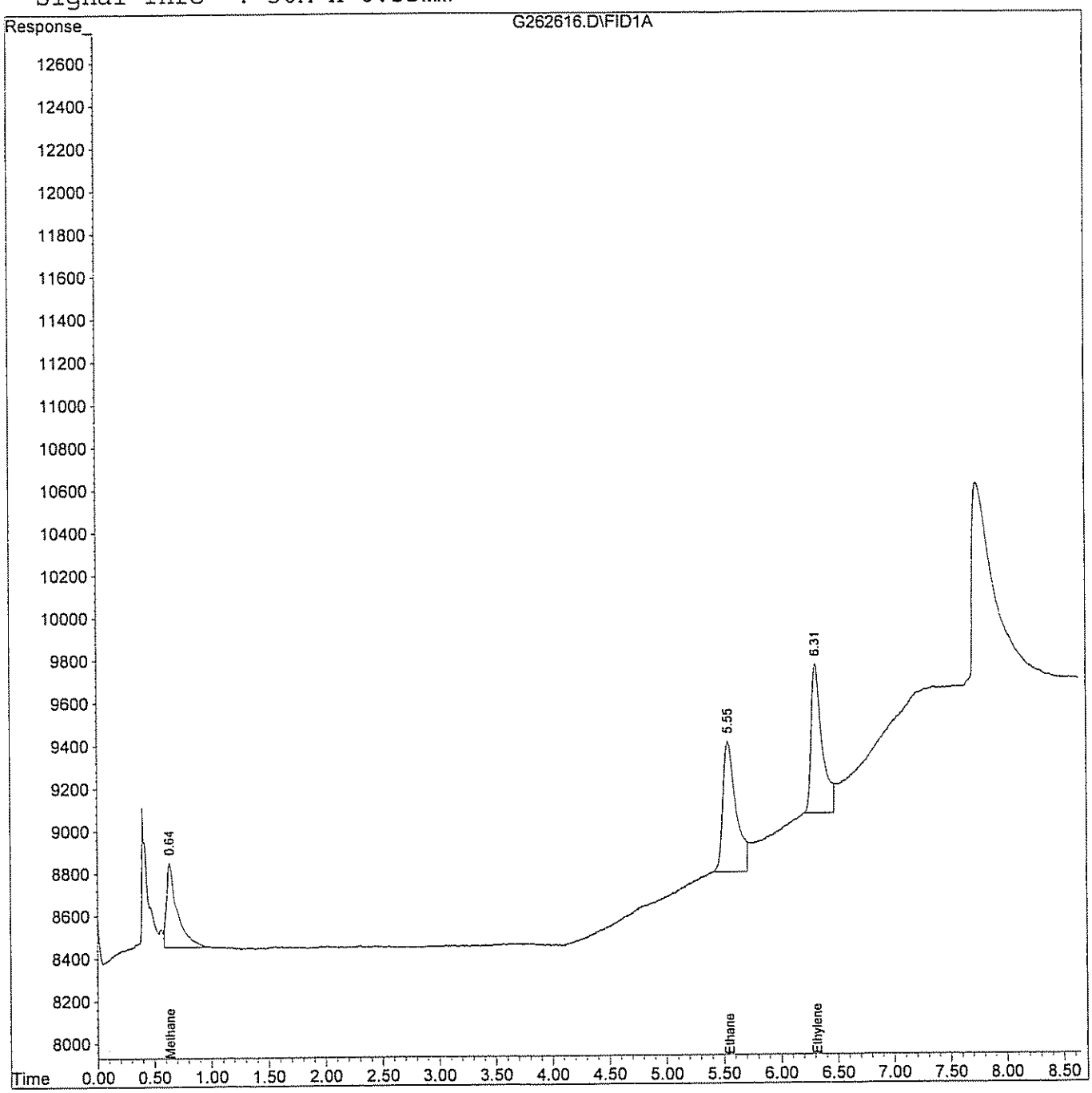
Quantitation Report

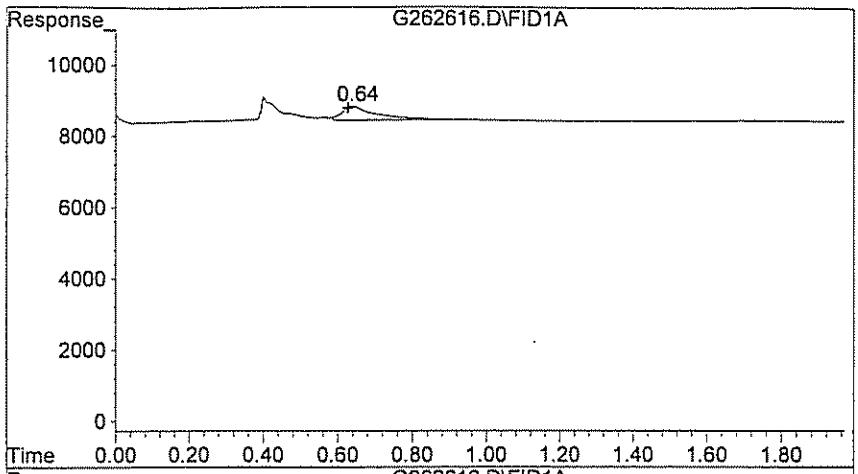
Data File : H:\GCDATA\G\032309\G262616.D
Acq On : 23 Mar 2009 18:25
Sample : CCV
Misc : CCV
IntFile : rteint.p
Quant Time: Mar 23 18:35 2009 Quant Results File: RSK0320.RES

Vial: 35
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

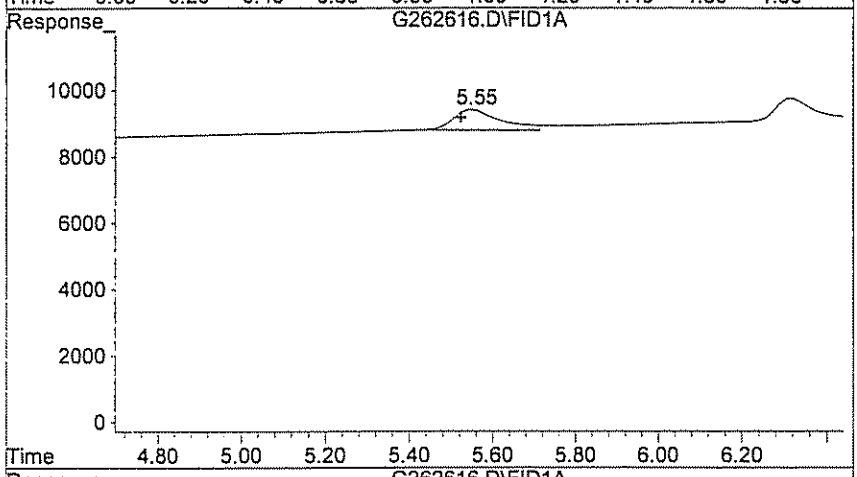
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





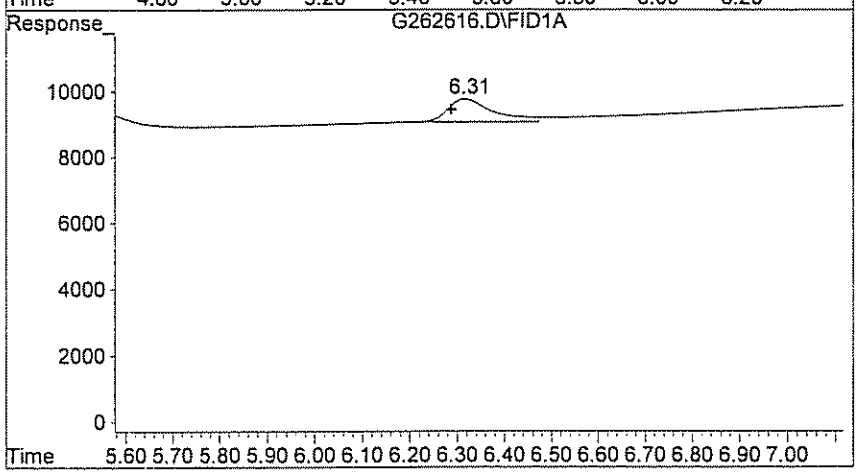
#1 Methane

R.T.: 0.637 min
Delta R.T.: 0.010 min
Response: 2576
Conc: 16.48 ppb m



#2 Ethane

R.T.: 5.547 min
Delta R.T.: 0.023 min
Response: 614
Conc: 25.89 ppb m



#3 Ethylene

R.T.: 6.313 min
Delta R.T.: 0.027 min
Response: 701
Conc: 23.58 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262617.D
Acq On : 24 Mar 2009 6:59
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 35
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	143.072	8.5	95	0.02
2	T	Ethane	23.713	21.506	9.3	103	-0.02
3	T	Ethylene	29.730	25.808	13.2	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262617.D Vial: 35
Acq On : 24 Mar 2009 6:59 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:10 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	2375	15.192	ppb	m
2) T	Ethane	5.50	671	28.297	ppb	m
3) T	Ethylene	6.30	751	25.261	ppb	m

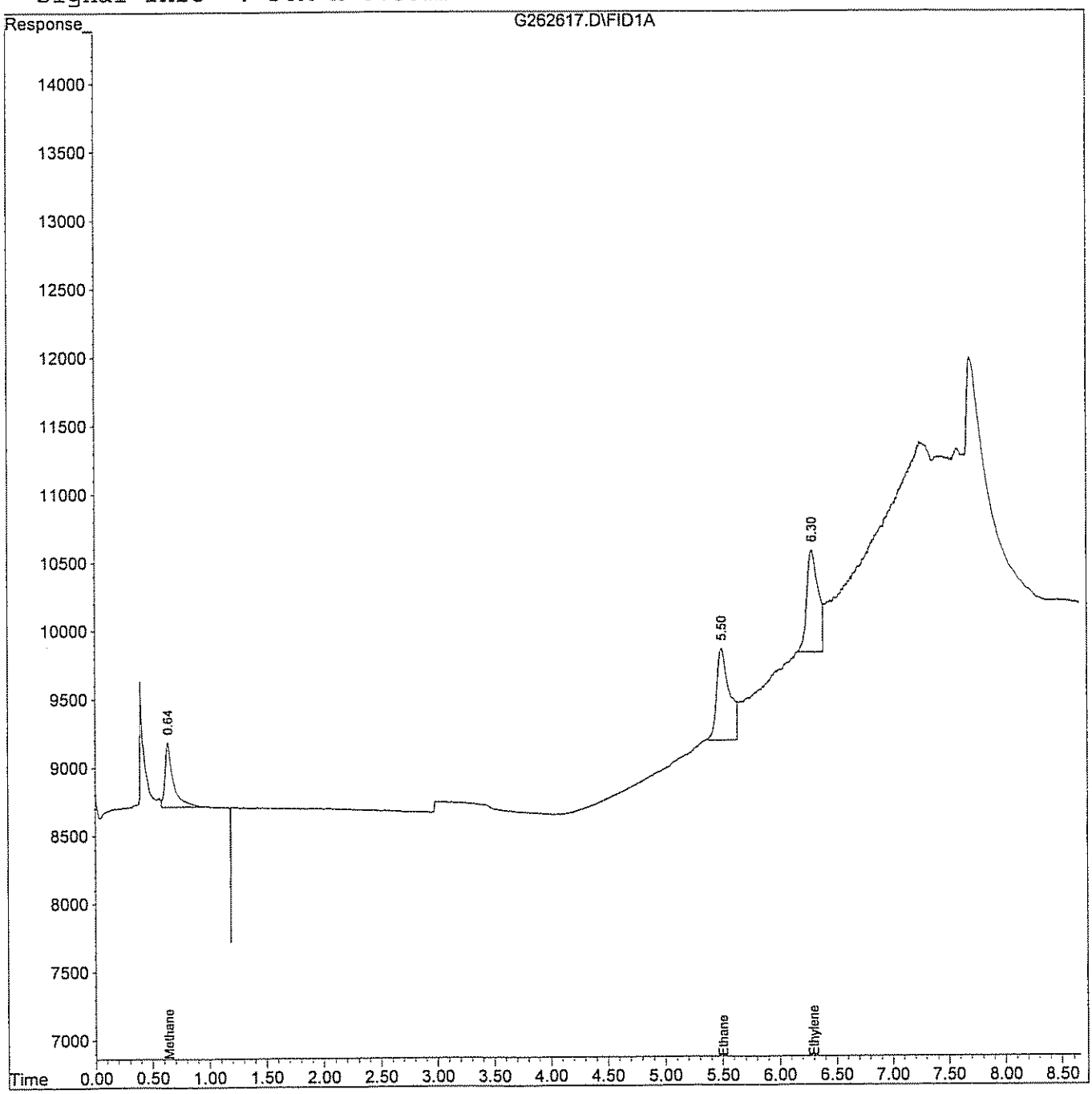
(f)=RT Delta > 1/2 Window (m)=manual int

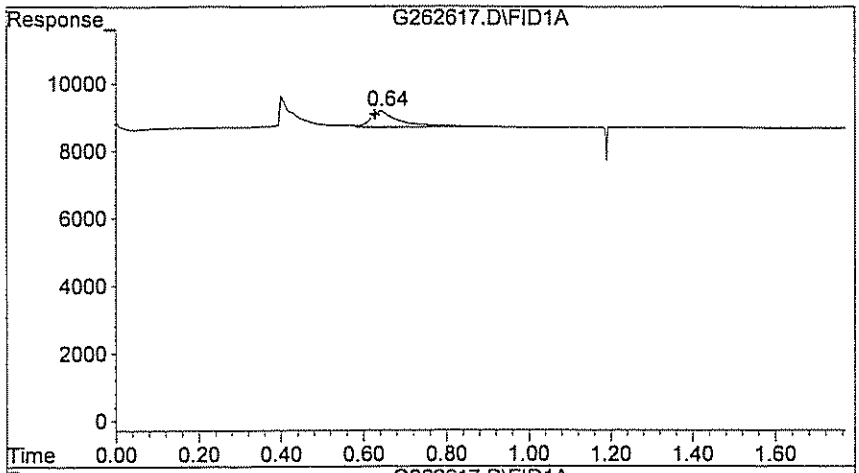
Quantitation Report

Data File : H:\GCDATA\G\032409\G262617.D Vial: 35
Acq On : 24 Mar 2009 6:59 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:10 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

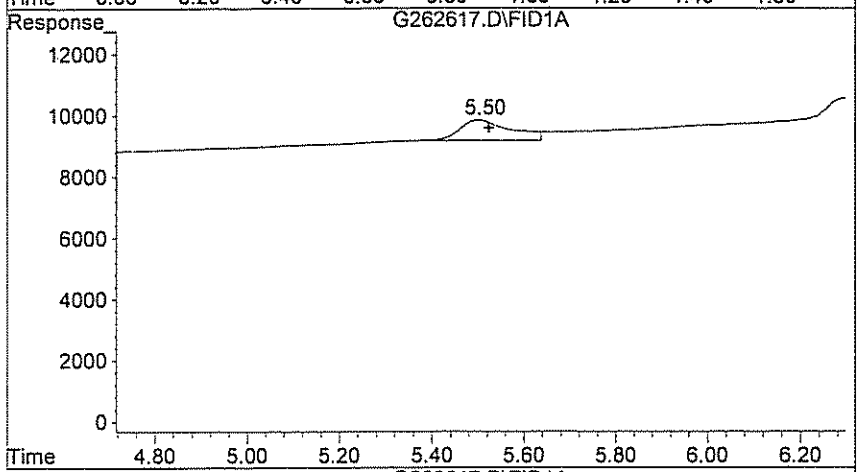
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





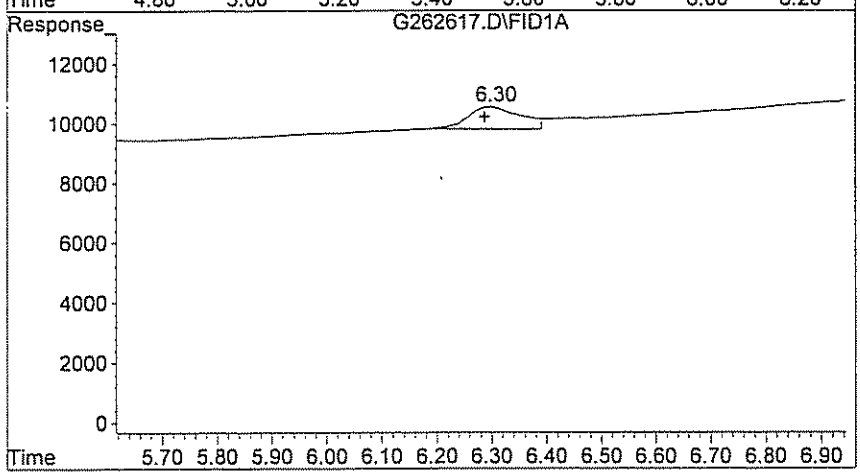
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 2375
Conc: 15.19 ppb m



#2 Ethane

R.T.: 5.503 min
Delta R.T.: -0.020 min
Response: 671
Conc: 28.30 ppb m



#3 Ethylene

R.T.: 6.297 min
Delta R.T.: 0.010 min
Response: 751
Conc: 25.26 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262629.D
Acq On : 24 Mar 2009 10:38
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 13
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	162.229	-3.8	108	0.03
2	T	Ethane	23.713	19.327	18.5	92	0.00
3	T	Ethylene	29.730	23.918	19.5	87	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262629.D Vial: 13
Acq On : 24 Mar 2009 10:38 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 10:53 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2693	17.226	ppb	m
2) T	Ethane	5.53	603	25.429	ppb	m
3) T	Ethylene	6.31	696	23.411	ppb	m

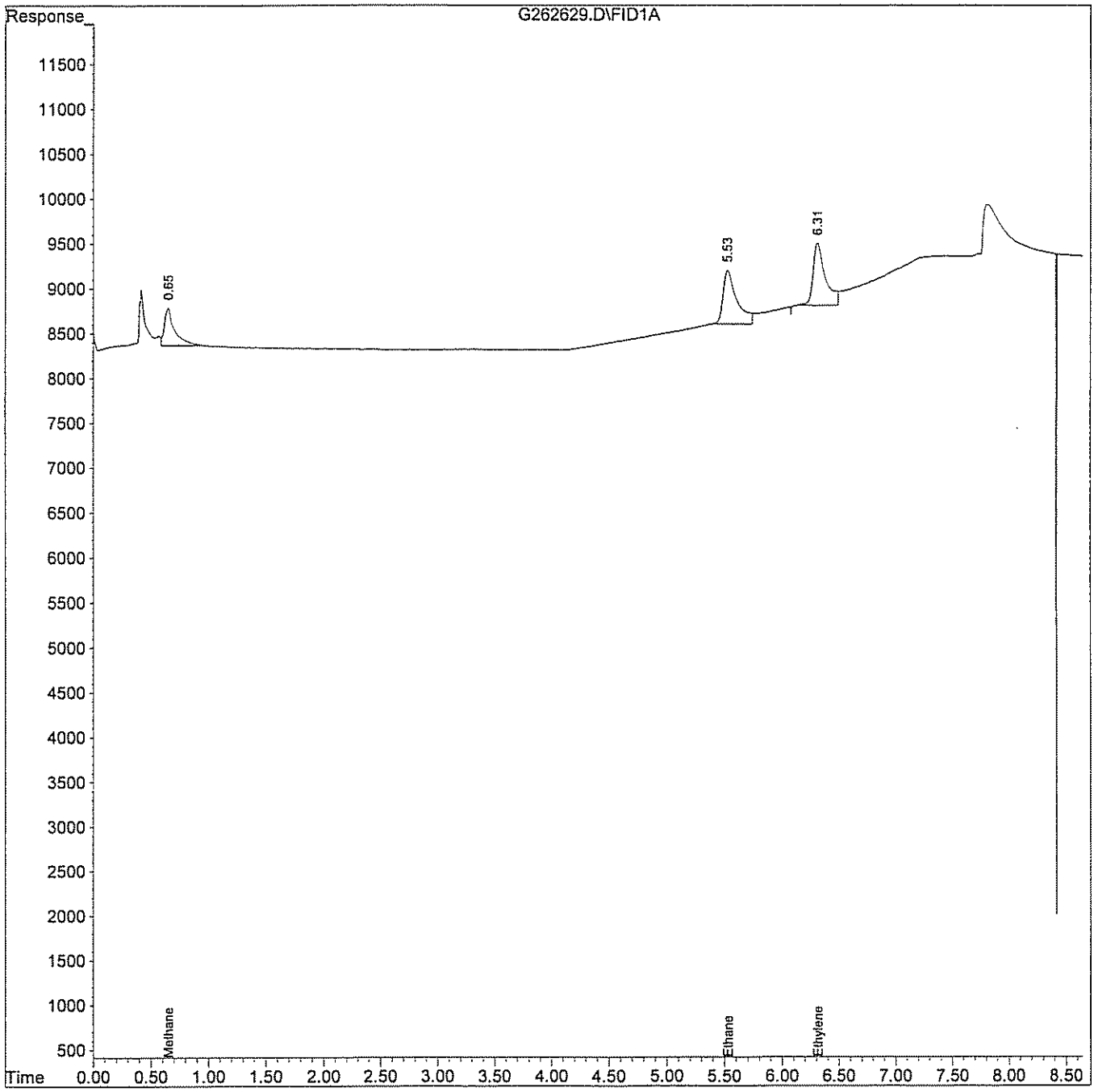
(f)=RT Delta > 1/2 Window (m)=manually int

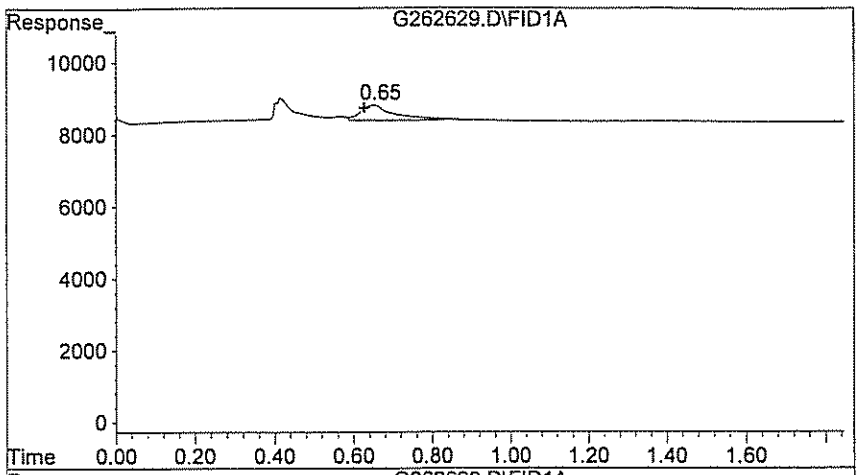
Quantitation Report

Data File : H:\GCDATA\G\032409\G262629.D Vial: 13
Acq On : 24 Mar 2009 10:38 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 10:53 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

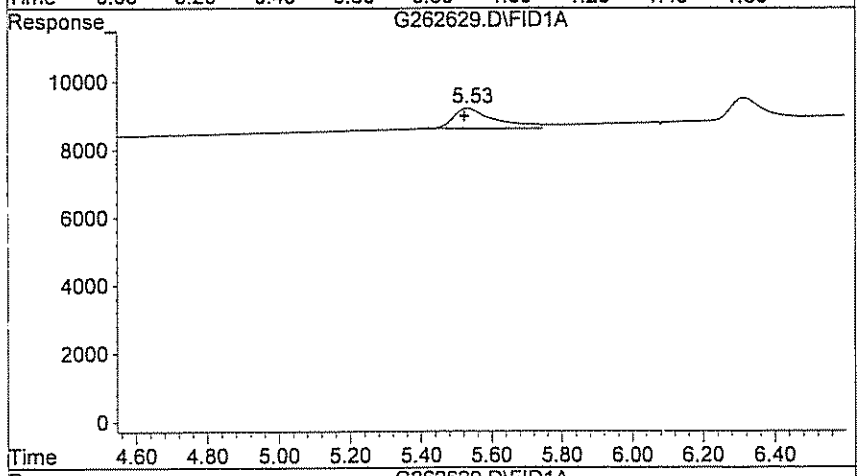
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





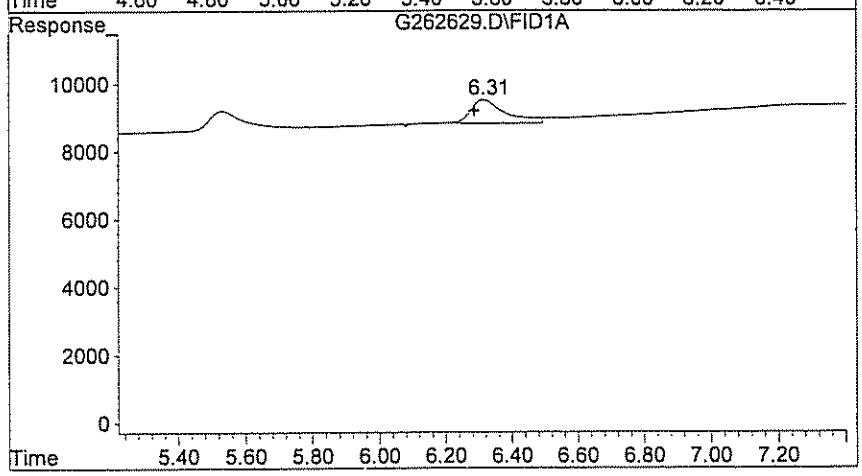
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.027 min
Response: 2693
Conc: 17.23 ppb m



#2 Ethane

R.T.: 5.530 min
Delta R.T.: 0.007 min
Response: 603
Conc: 25.43 ppb m



#3 Ethylene

R.T.: 6.313 min
Delta R.T.: 0.027 min
Response: 696
Conc: 23.41 ppb m

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

6. Injection Logsheet

7. Control Charts (where applicable)

GPL Laboratories

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108831

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108831
Sample Volume :	10	Lab File ID :	G262618.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262595.D Vial: 14
Acq On : 23 Mar 2009 12:17 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:27 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.00	0	N.D.	ppb	d
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

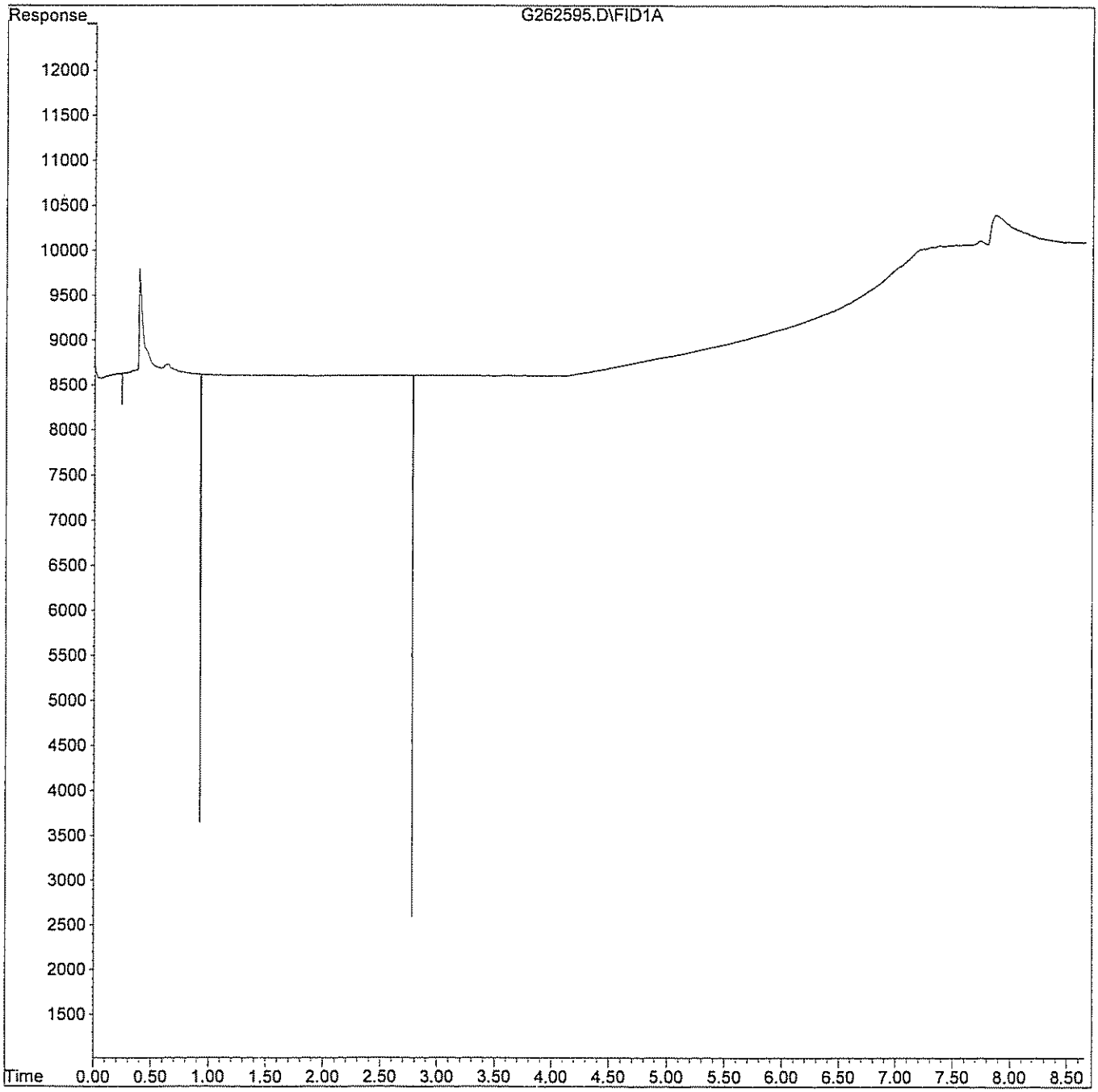
(f)=RT Delta > 1/2 Window (m)=manual int

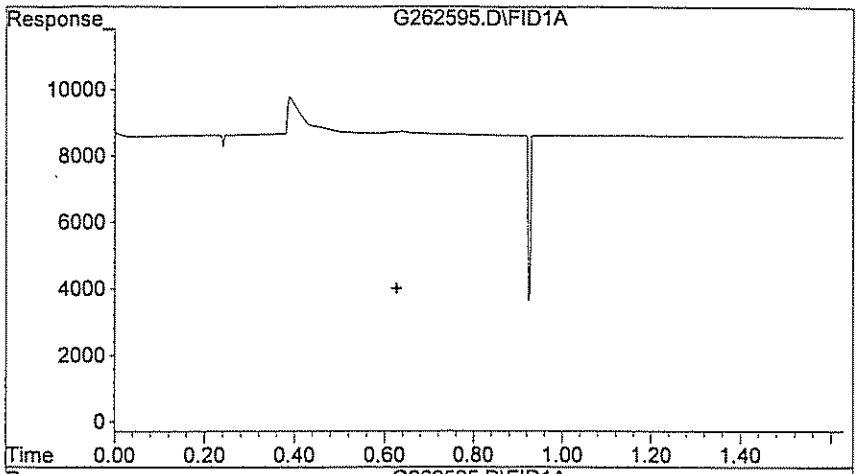
Quantitation Report

Data File : H:\GCDATA\G\032309\G262595.D Vial: 14
Acq On : 23 Mar 2009 12:17 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 12:27 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

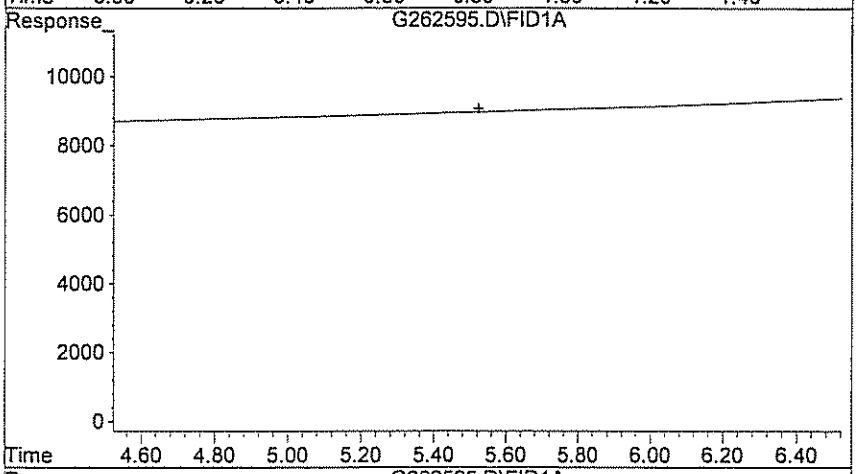
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





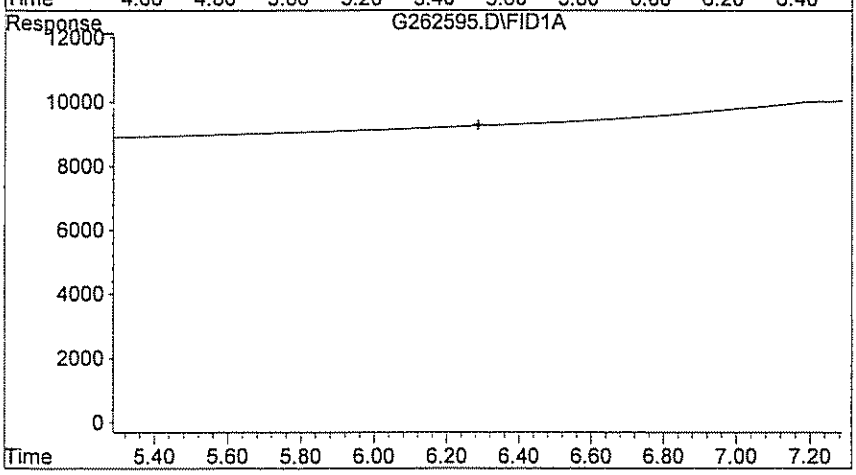
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108830

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108830
Sample Volume :	10	Lab File ID :	G262595.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262618.D Vial: 36
Acq On : 24 Mar 2009 7:28 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:38 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.00	0	N.D.	ppb	d
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

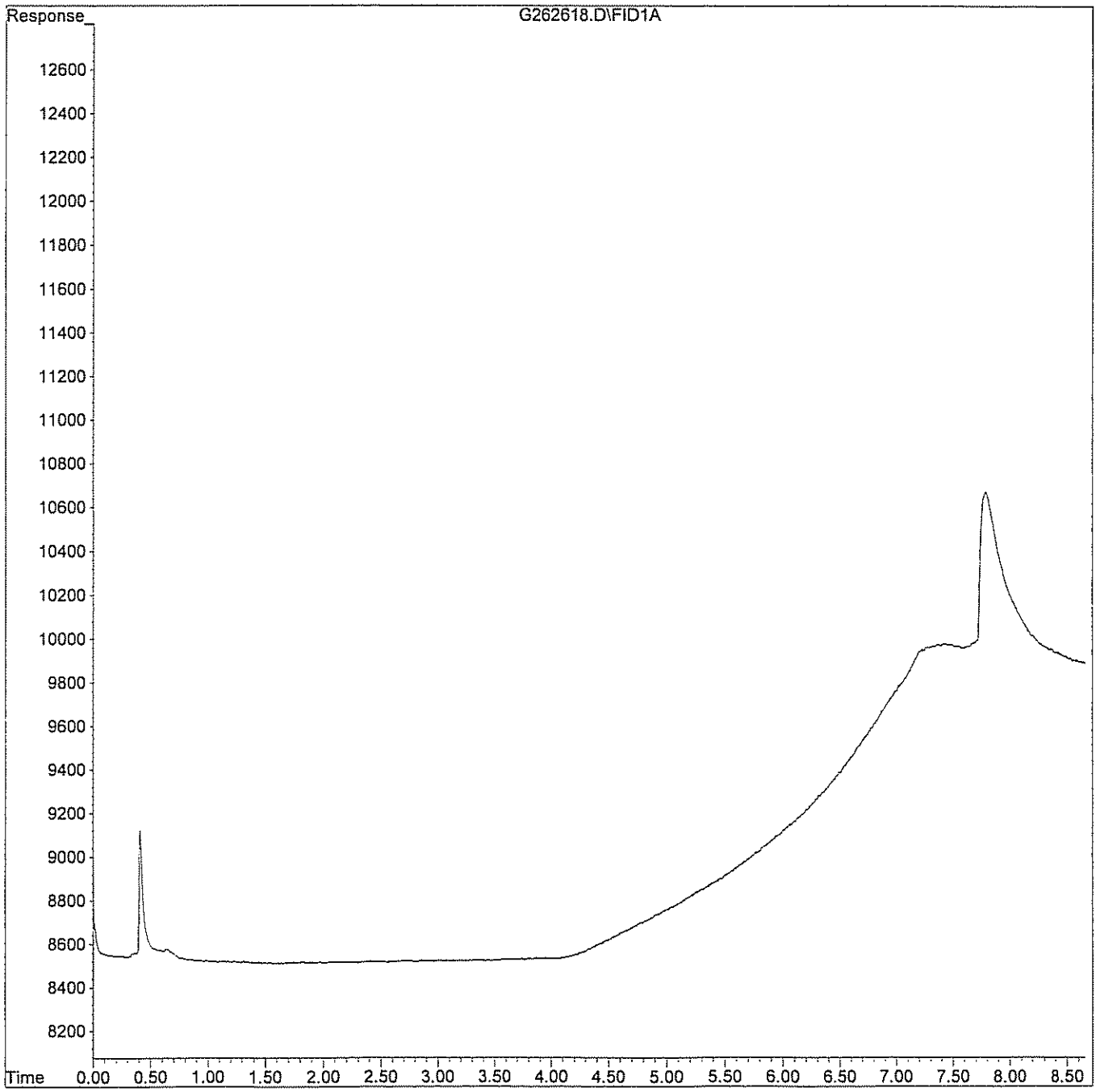
(f)=RT Delta > 1/2 Window (m)=manually int

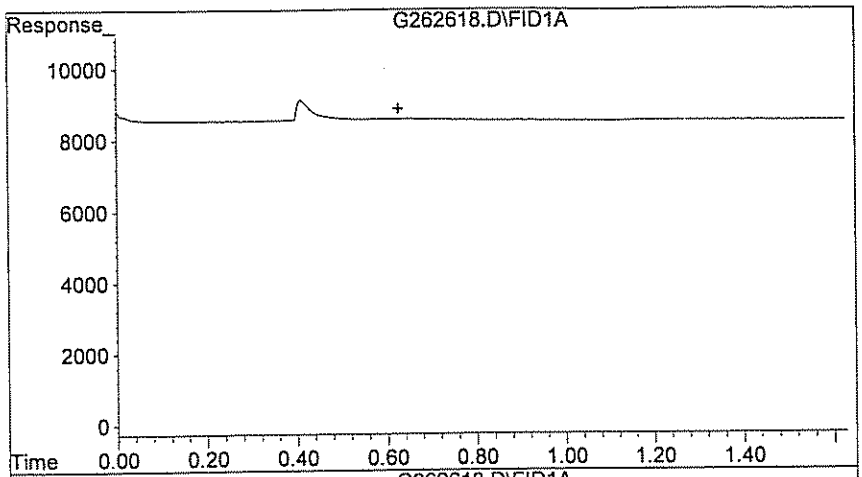
Quantitation Report

Data File : H:\GCDATA\G\032409\G262618.D Vial: 36
Acq On : 24 Mar 2009 7:28 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:38 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

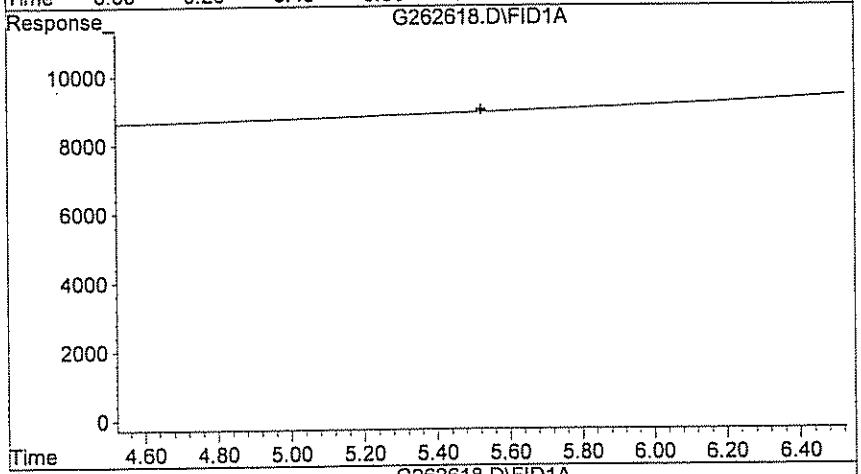
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





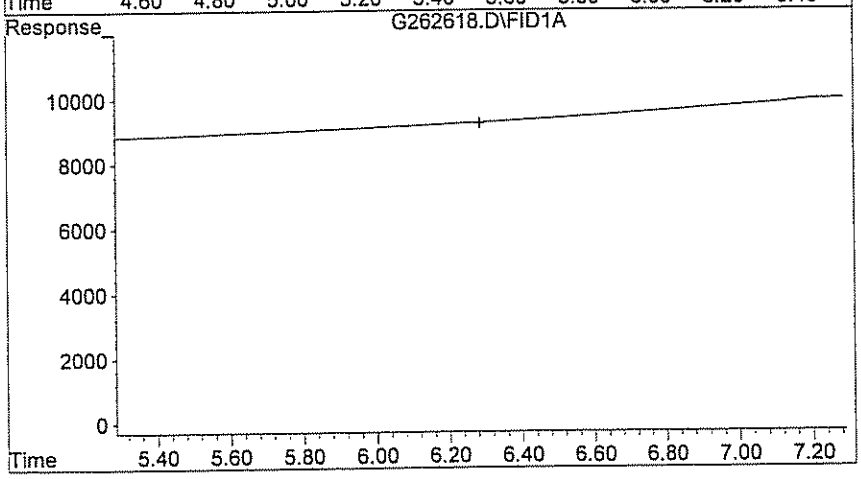
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-070-2/6MS
Sample Volume :		Lab File ID :	G262602.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	260	
74-85-1	Ethene	240	
74-82-8	Methane	270	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262602.D Vial: 21
Acq On : 23 Mar 2009 14:29 Operator: TG
Sample : 903069-002DLMS Inst : GC-G
Misc : OU1-16GW40-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 14:46 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	4254	27.211	ppb	m
2) T	Ethane	5.53	613	25.851	ppb	m
3) T	Ethylene	6.31	706	23.747	ppb	m

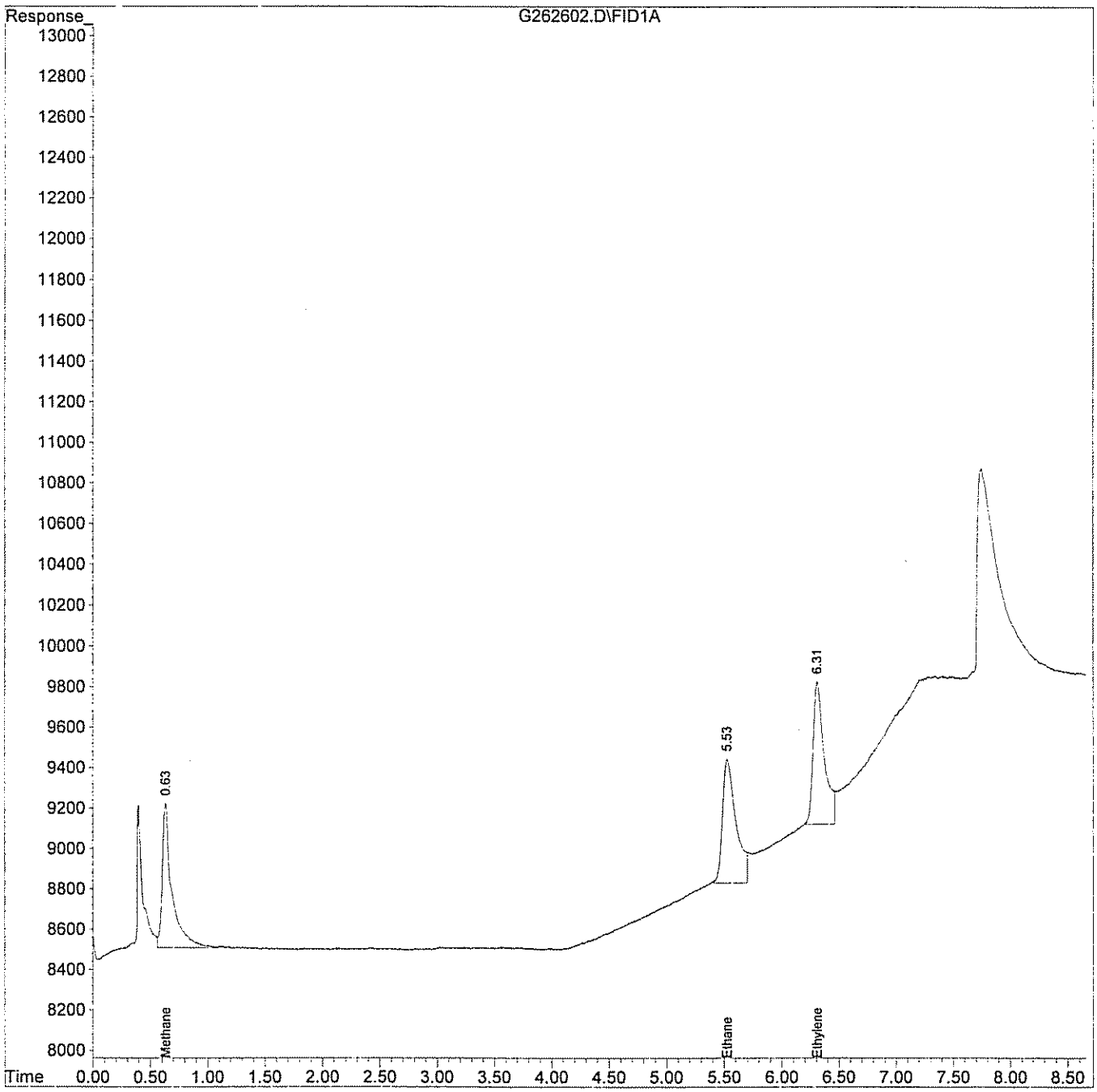
(f)=RT Delta > 1/2 Window (m)=manual int.

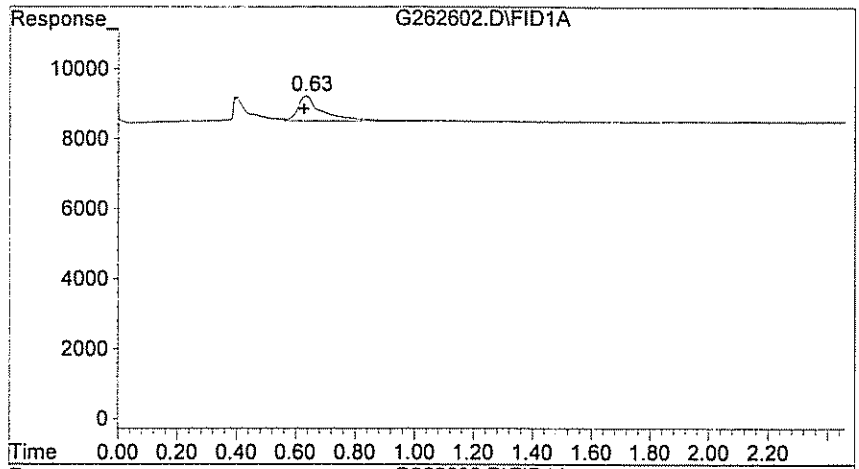
Quantitation Report

Data File : H:\GCDATA\G\032309\G262602.D Vial: 21
Acq On : 23 Mar 2009 14:29 Operator: TG
Sample : 903069-002DLMS Inst : GC-G
Misc : OU1-16GW40-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 14:46 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

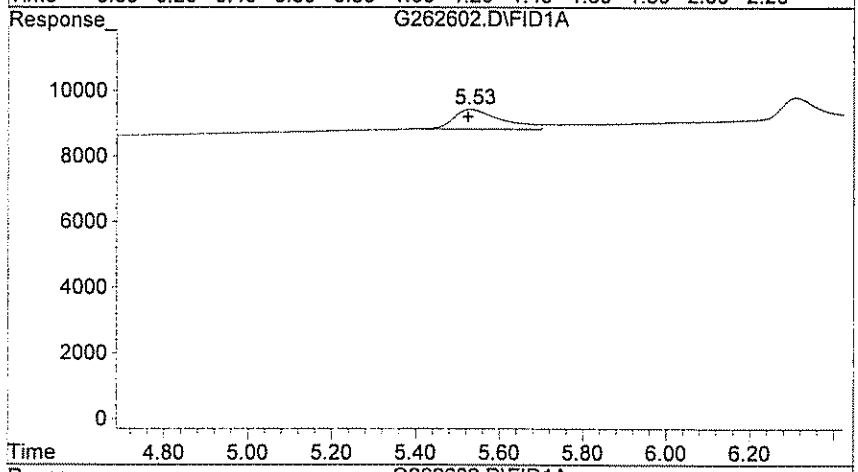
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





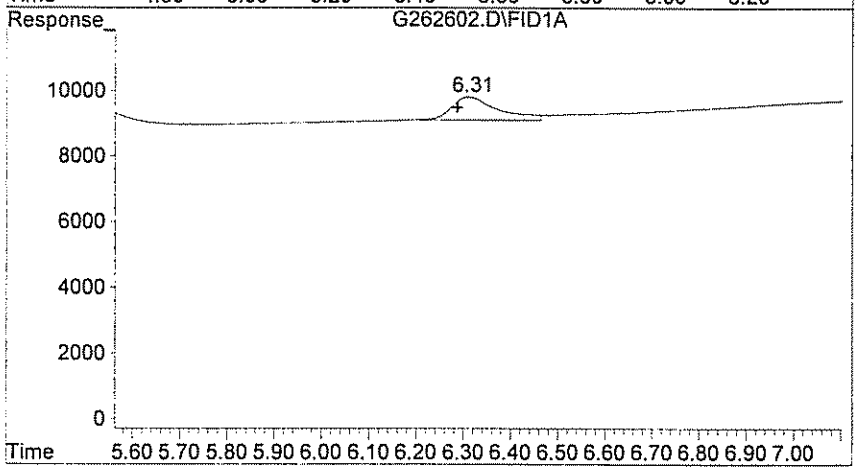
#1 Methane

R.T.: 0.633 min
Delta R.T.: 0.007 min
Response: 4254
Conc: 27.21 ppb m



#2 Ethane

R.T.: 5.527 min
Delta R.T.: 0.003 min
Response: 613
Conc: 25.85 ppb m



#3 Ethylene

R.T.: 6.307 min
Delta R.T.: 0.020 min
Response: 706
Conc: 23.75 ppb m

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903069
Case No. :		SDG NO :	903069
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903069-002-070-2/6MSD
Sample Volume :		Lab File ID :	G262603.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	270	
74-85-1	Ethene	240	
74-82-8	Methane	240	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032309\G262603.D Vial: 22
Acq On : 23 Mar 2009 14:48 Operator: TG
Sample : 903069-002DLMSD Inst : GC-G
Misc : OU1-16GW40-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 14:58 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	3823	24.454	ppb	m
2) T	Ethane	5.55	647	27.284	ppb	m
3) T	Ethylene	6.32	715	24.050	ppb	m

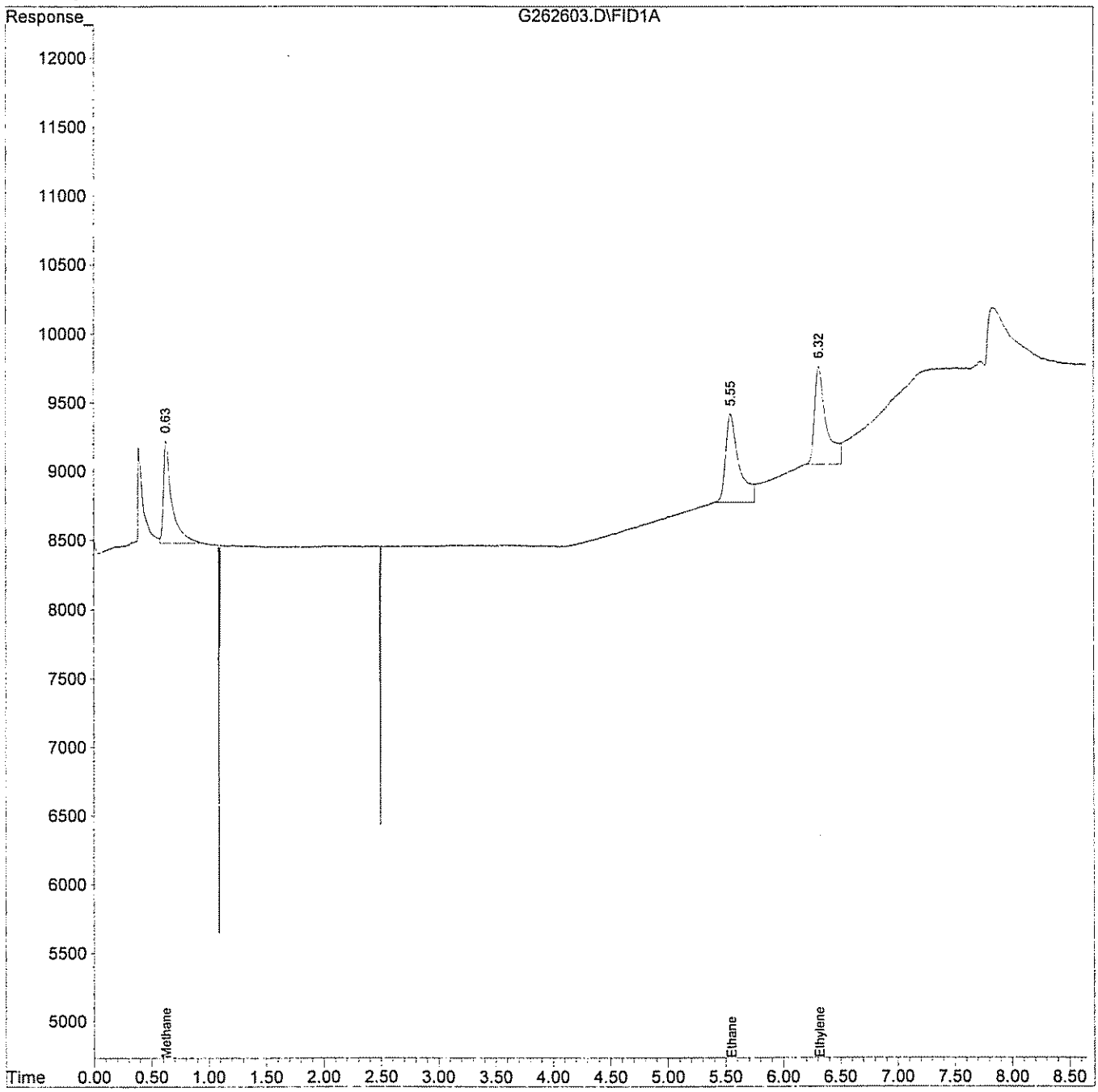
(f)=RT Delta > 1/2 Window (m)=manual int

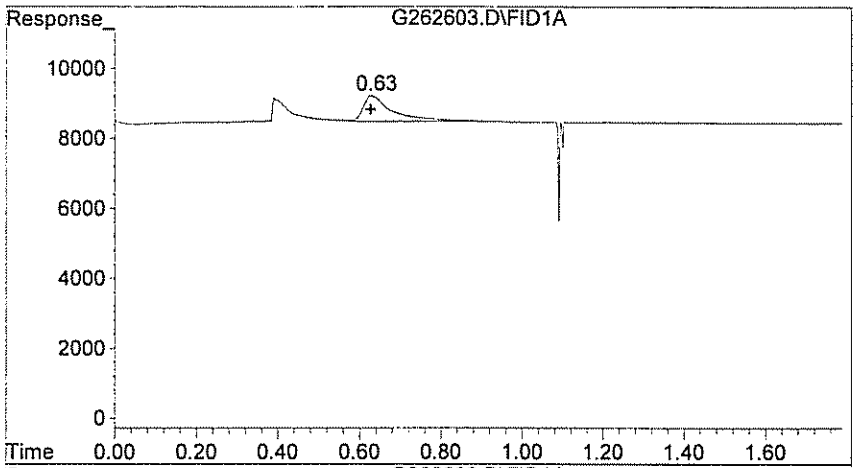
Quantitation Report

Data File : H:\GCDATA\G\032309\G262603.D Vial: 22
Acq On : 23 Mar 2009 14:48 Operator: TG
Sample : 903069-002DLMSD Inst : GC-G
Misc : OU1-16GW40-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 23 14:58 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

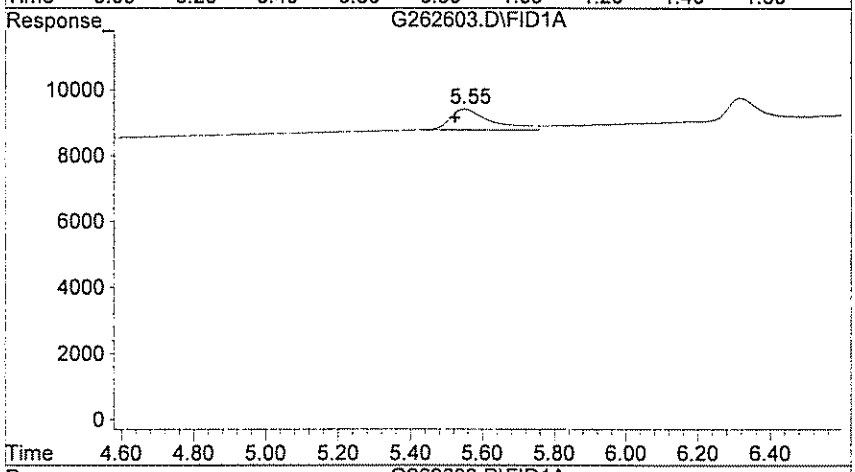
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





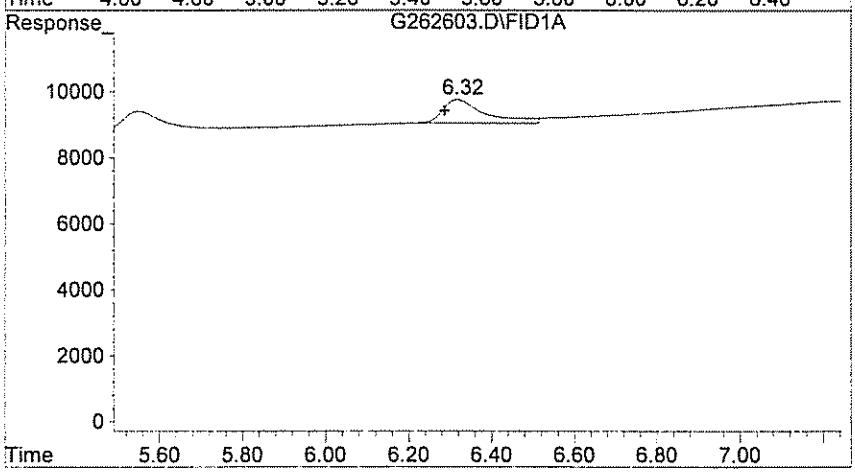
#1 Methane

R.T.: 0.627 min
Delta R.T.: 0.000 min
Response: 3823
Conc: 24.45 ppb m



#2 Ethane

R.T.: 5.550 min
Delta R.T.: 0.027 min
Response: 647
Conc: 27.28 ppb m



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.030 min
Response: 715
Conc: 24.05 ppb m

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: W DATE: 3/25/09

INSTRUMENT ID: **HP 5890 # G**

ANALYSIS/FRACTION: VOA

ANALYSTS: TG

ICAL DATE: 3/20/09

METHOD FILE: RSK0320

SEQUENCE FILE: 03120109

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G262567	Cal 01	3/20/09	1X	water	10mL	N/A	RSK175	OK
	G 68	cal 02							ok
	G 69	Cal 04							OK
	G 70	cal 05							ok
	G 71	cal 010							OK
	G 72	BLK							ok
	G 73	903062-001							ok
	G 74	-002							ok
	G 75	-003							ok
	G 76	-004							need dilution TG not used
	G 77	-005							need dilution TG not used
	G 78	-006							OK
	G 79	-006MS							ok
	G 80	-006MSD							ok
	G 81	CCV05							OK
	G								
	G								
	G								
	G								
	G								
	G		TG 3/23/09						
	G								
	G								
	G								
	G								
	G								

REMARKS

Standards	Lot #	Conc.	Prep. Date	Volume
Methane	8282011	1000ppm	3/18/2009	2.5mL
Ethane	9076051	↓	3/17/2009	↓
Ethylene	8014011	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: N DATE: 3/25/09

INSTRUMENT ID: **HP 5890 # G**
ANALYSIS/FRACTION: VOA
ANALYSTS: TC
ICAL DATE: 03/20/09

METHOD FILE: RSK 0302.M
SEQUENCE FILE: 03/23/09

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G26258 2	CCV05	3/23/09	STD	STD	10mL	N/A	RSK175	not used
	G 83	CCV05							
	G 84	CCV05							
	G 85	BLK							
	G 86	CCV05							
	G 87	CCV05							
	G 88	CCV05							
	G 89	CCV05		↓	↓	↓			
	G 90	903062-004 DL		50X	water	~~200ml~~ 200ml TC			
	G 91	903062-~~004~~ DL2		20X		~~500ml~~ 500ml			
	G 92	903062-~~004~~ DL2		20X		↓			
	G 93	903062-004 DL 3		50X		200ml			
	G 94	CCV		STD		10mL			OK
	G 95	BLK		STD		↓			OK
	G 96	903062-004 DL		50X		200ml			OK
	G 97	903062-005 DL		20X		500ml			OK
	G 98	903069-001		1X		10ml			OK
	G ↓ 99	903069-002		↓		↓			needs dilution not used
	G26260 00	903069-002MS		~~1X~~ 10X TC		10ml			needs dilutions not used TC
	G 01	903069-002DL		10X		1ml			OK
	G 02	903069-002DLMS		10X					OK
	G 03	903069-002DLMSD		↓		↓			OK
	G 04	CCV		STD		10ml			needs dilution not used
	G 05	CCV		STD		↓			used TC
	G 06	903069-003		1X		10ml			needs dilution not used
	G ↓ 07	903069-004	↓	↓	↓	↓	↓	↓	↓

3/25/09

REMARKS

Y/2

Standards	Lot #	Conc.	Prep. Date	Volume
methane	828201L	1000ppm	3/18/2009	2.5mL
Ethane	907605L	↓	3/17/2009	↓
Ethylene	801401L	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: _____ DATE: 2/2/09

INSTRUMENT ID: **HP 5890 # G**
ANALYSIS/FRACTION: VOA
ANALYSTS: TG
ICAL DATE: 3/20/09

METHOD FILE: RSK 0320.m
SEQUENCE FILE: 03/23/09

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262608	903069-005	3/24/09 3/23/09	1X	water	10ml	N/A	RSK175	need dilution ~~not used~~ TG
	G 09	903069-003DL		100X	↓	1mDN			OK
	G 10	903069-004DL		50X	water	200Nl			OK
	G 11	903069-005DL		100X	water	100Nl			OK
	G 12	903069-006		1X	↓	10mL			need dilution ~~not used~~ TG 3/25/09
	G 13	903069-007		1X	water	↓			↓
	G 14	903069-006DL		20X	water	500Nl			OK
	G 15	903069-007DL		100X	water	100Nl			OK
	G ↓ 16	903069 CCV	↓	STD	↓	10mL	↓	↓	OK
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								

TG 3/24/09

REMARKS

2/2

Standards	Lot #	Conc.	Prep. Date	Volume
methane	828201L	1000PPM	3/18/2009	2.5mL
ethane	907605L	↓	3/17/2009	↓
ethylene	801401L	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: ✓ DATE: 3/25/09

INSTRUMENT ID: **HP 5890 # G** METHOD FILE: RSK 0320.m

ANALYSIS/FRACTION: VOA SEQUENCE FILE: 03124109

ANALYSTS: TG

ICAL DATE: 3/20/2009

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262617	CCV	3/24/09	STD	water	10ml	N/A	RSK175	OK
	G 18	BLK	↓	↓	↓	↓	↓	↓	OK
	G 19	903069-007MS		10X		1ml			OK
	G 20	-007MSD		10X		↓			OK needs dilutions NOT USED
	G 21	-008		1X		10ml			↓
	G 22	-009		1X		↓			OK
	G 23	-008DL		50X		200ml			OK
	G 24	↓ -009DL		50X		↓			OK
	G 25	903071-001		1X		10ml			~~NOT~~ OK
	G 26	903071-002		1X		↓			OK
	G 27	903071-001DL		500X		2ml			OK needs dilutions NOT USED 3/25/09
	G 28	CCV		1X		10ml			↓ TG
	G 29	CCV		↓		↓			OK needs dilutions NOT USED
	G 30	903071-003		↓		10ml			needs dilutions NOT USED
	G 31	-004		↓		↓			OK
	G 32	-003DL		100X		100ml			OK
	G 33	-004DL		500X		2ml			OK needs dilutions NOT USED
	G 34	-005		1X		10ml			OK TG
	G 35	-005DL		20X		500ml			OK needs dilution NOT USED
	G 36	903093-001		1X		10ml			↓
	G 37	903093-002		↓		↓			OK
	G 38	903093-003		↓		↓			OK
	G 39	CCV		1X		10ml			OK
	G 40	BLK		↓		↓			OK
	G 41	903093-002DL		100X		100ml			OK dilution TG
	G 42	903093-004	↓	1X	↓	10ml	↓	↓	need dilution NOT USED

REMARKS

1/2

Standards	Lot #	Conc.	Prep. Date	Volume
methane	8282011	100 PPM	3/18/2009	2.5ml
ethane	0107B05L	↓	3/17/2009	↓
ethylene	8014011	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: MV DATE: 3/25/09

INSTRUMENT ID: **HP 5890 # G**
ANALYSIS/FRACTION: VOA
ANALYSTS: TC
ICAL DATE: 3/20/09

METHOD FILE: 1320-M
SEQUENCE FILE: 032409

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G262643	903093-005	3/24/09	1X	water	10ml	N/A	BSK175	need dilution ~~not used~~ TZ
	G 44	-004DL		10X		1ml			OK
	G 45	-005DL		50X		200ul			OK
	G 46	-006		1X		10ml			need dilution ~~not used~~ TZ
	G 47	-007		1X		↓			↓
	G 48	-006DL		1000X		10ml			OK
	G 49	-007DL		20X		500ml			OK
	G 50	-008		1X	↓	10ml			OK
	G 51	CCV			STD	10ml			need dilution ~~not used~~ TZ
	G 52	CCV							↓
	G 53	CCV	↓		↓	↓	↓	↓	OK
	G								
	G								
	G								
	G								
	G								
	G								
	G		TZ 3/25/09						
	G								
	G								
	G								
	G								
	G								
	G								
	G								

REMARKS

2/2

Standards	Lot #	Conc.	Prep. Date	Volume
methane	82820IL	1000ppm	3/18/2009	25ml
ethane	907605L	↓	3/17/2009	↓
ethylene	80140IL	↓	7/16/2009	↓

GENERAL CHEMISTRY

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary
   (where applicable)

GPL Laboratories, LLLP

GPL LABORATORIES, LLLP

WET CHEM CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903049

PARAMETER: 9040 / 376.1

	CRITERIA MET YES	NO	NA
HOLDING TIMES	✓		
METHOD BLANK	✓		
CALIBRATION CURVE	✓		
IF NO,			
INITIAL CALIBRATION	✓		
IF NO,			
CONTINUING CALIBRATION	✓		
IF NO,			
MATRIX SPIKE RECOVERIES	✓		
COMMENTS			
DUP RECOVERIES	✓		
LCS RECOVERIES			✓
CALCULATION CHECK	✓		
ADDITIONAL COMMENTS			

SIGNATURE _____ DATE 3-25-09

REVIEWED BY _____ DATE 3/25/09

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903069

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-16GW02-0309	BQL	BQL	N/C	15%
Sulfide	E376.1	OU1-16GW40-0309	BQL	BQL	N/C	15%

%RPD - 0 out of 2 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-16GW40-0309	1.09	6.4	5.00	106	85 - 115%
TOC	SW9060	OU1-16GW02-0309	6.51	11.6	5.00	102	85 - 115%

% Recovery - 0 out of 2 outside control limits

B. Sample Data

GPL Laboratories, LLLP

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW09-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-001-095-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.1	
7440-44-0	Total Organic Carbon, Replicate 2	3.2	
7440-44-0	Total Organic Carbon, Replicate 3	3.2	
7440-44-0	Total Organic Carbon, Replicate 4	3.2	
7440-44-0	Total Organic Carbon, Average	3.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-002-108-1/3
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.2	U
7440-44-0	Total Organic Carbon, Replicate 2	1.1	U
7440-44-0	Total Organic Carbon, Replicate 3	1.0	U
7440-44-0	Total Organic Carbon, Replicate 4	1.0	U
7440-44-0	Total Organic Carbon, Average	1.1	U

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-002-108-1/3MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.5	
7440-44-0	Total Organic Carbon, Replicate 2	6.3	
7440-44-0	Total Organic Carbon, Average	6.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW41-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-003-089-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.2	
7440-44-0	Total Organic Carbon, Replicate 2	3.2	
7440-44-0	Total Organic Carbon, Replicate 3	3.1	
7440-44-0	Total Organic Carbon, Replicate 4	3.2	
7440-44-0	Total Organic Carbon, Average	3.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW03-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-004-090-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.2	
7440-44-0	Total Organic Carbon, Replicate 2	2.1	
7440-44-0	Total Organic Carbon, Replicate 3	2.1	
7440-44-0	Total Organic Carbon, Replicate 4	2.1	
7440-44-0	Total Organic Carbon, Average	2.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-008-093-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	4.5	
7440-44-0	Total Organic Carbon, Replicate 2	4.5	
7440-44-0	Total Organic Carbon, Replicate 3	4.5	
7440-44-0	Total Organic Carbon, Replicate 4	4.5	
7440-44-0	Total Organic Carbon, Average	4.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-005-091-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/11/2009
% Moisture:	ID.	Date Analyzed:	3/17/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.3	
7440-44-0	Total Organic Carbon, Replicate 2	3.2	
7440-44-0	Total Organic Carbon, Replicate 3	3.2	
7440-44-0	Total Organic Carbon, Replicate 4	3.2	
7440-44-0	Total Organic Carbon, Average	3.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW04-0306

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-006-092-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.7	
7440-44-0	Total Organic Carbon, Replicate 2	2.7	
7440-44-0	Total Organic Carbon, Replicate 3	2.7	
7440-44-0	Total Organic Carbon, Replicate 4	2.8	
7440-44-0	Total Organic Carbon, Average	2.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW02-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-007-111-1/3
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.4	
7440-44-0	Total Organic Carbon, Replicate 2	6.5	
7440-44-0	Total Organic Carbon, Replicate 3	6.5	
7440-44-0	Total Organic Carbon, Replicate 4	6.6	
7440-44-0	Total Organic Carbon, Average	6.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW40-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-007-111-1/3MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	11.6	
7440-44-0	Total Organic Carbon, Replicate 2	11.7	
7440-44-0	Total Organic Carbon, Average	11.6	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW42-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903069
Case No.:		SDG NO.:	903069
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903069-009-094-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	14.4	
7440-44-0	Total Organic Carbon, Replicate 2	14.3	
7440-44-0	Total Organic Carbon, Replicate 3	14.4	
7440-44-0	Total Organic Carbon, Replicate 4	14.5	
7440-44-0	Total Organic Carbon, Average	14.4	

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903069

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Twelve water samples were received on 03/12/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

General Chemistry

Nine water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on samples OU1-16GW02-0309 and OU1-16GW40-0309. All QC criteria were met.

Nine water samples were analyzed for Total Organic Carbon using EPA method 9060. Samples were run in quadruplicate, thus nc duplicate analysis was performed. Matrix spike analysis was performed on samples OU1-16GW02-0309 and OU1-16GW02-0309 All QC criteria were met.

JCSA 3/25/09

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1																	
2																	
3																	
4	Total Organic Carbon	AN	903069-001-09	SMP	SW9060	3.17	1.0000	✓	3.1670	.00000000	MGL	MGL	3.1700	0	0.0000	0.00	3.1670
5	Total Organic Carbon	AN	903069-002-10	SMP	SW9060	1.09	1.0000	✓	1.0854	.00000000	MGL	MGL	1.0900	0	0.0000	0.00	1.0854
6	Total Organic Carbon	AN	903069-002-10	MS	SW9060	6.40	1.0000	✓	6.4002	.00000000	MGL	MGL	6.4000	0	5.0000	106.00	6.4002
7	Total Organic Carbon	AN	903069-003-08	SMP	SW9060	3.16	1.0000	✓	3.1612	.00000000	MGL	MGL	3.1600	0	0.0000	0.00	3.1612
8	Total Organic Carbon	AN	903069-004-09	SMP	SW9060	2.11	1.0000	✓	2.1058	.00000000	MGL	MGL	2.1100	0	0.0000	0.00	2.1058
9	Total Organic Carbon	AN	903069-005-09	SMP	SW9060	3.22	1.0000	✓	3.2162	.00000000	MGL	MGL	3.2200	0	0.0000	0.00	3.2162
10	Total Organic Carbon	AN	903069-006-09	SMP	SW9060	2.72	1.0000	✓	2.7235	.00000000	MGL	MGL	2.7200	0	0.0000	0.00	2.7235
11	Total Organic Carbon	AN	903069-007-11	SMP	SW9060	6.51	1.0000	✓	6.5050	.00000000	MGL	MGL	6.5100	0	0.0000	0.00	6.5050
12	Total Organic Carbon	AN	903069-007-11	MS	SW9060	11.6	1.0000	✓	11.6295	.00000000	MGL	MGL	11.6000	0	5.0000	102.00	11.6295
13	Total Organic Carbon	AN	903069-008-09	SMP	SW9060	4.48	1.0000	✓	4.4843	.00000000	MGL	MGL	4.4800	0	0.0000	0.00	4.4843
14	Total Organic Carbon	AN	903069-009-09	SMP	SW9060	14.4	1.0000	✓	14.3853	.00000000	MGL	MGL	14.4000	0	0.0000	0.00	14.3853

XB #124260 903069

7-24-09 DM

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / ~~9060~~

Analyst: DAH
Date: 3-24-09 1300
Reviewed by / Date: M 3.25.09

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
#43278	ICV	20	3	11.1635	11.16	33.5
blank	ICB	20	1	0.2667	0.27	<1.0
903069-001 (1)	Mean = 3.1670 mg/L	20	1	3.1141	3.11	3.11
(2)				3.1820	3.18	3.18
(3)				3.1799	3.18	3.18
(4)				3.1921	3.19	3.19
903069-002 (1)	Mean = 1.0854 mg/L	20	1	1.1873	1.19	1.19
(2)				1.0740	1.07	1.07
(3)				1.0436	1.04	1.04
(4)				1.0367	1.04	1.04
903069-002 MS (1)	Mean = 6.4002 mg/L	20	1	6.4693	6.47	6.47
(2)	Spike = 5.00 mg/L #41761			6.3311	6.33	6.33
#43278	CCV1	20	3	11.0870	11.09	33.3
blank	CCB1	20	1	0.3032	0.30	<1.0
903069-003 (1)	Mean = 3.1612 mg/L	20	1	3.1561	3.16	3.16
(2)				3.1974	3.20	3.20
(3)				3.0982	3.10	3.10
(4)				3.1930	3.19	3.19
903069-004 (1)	Mean = 2.1058 mg/L	20	1	2.1561	2.16	2.16
(2)				2.0986	2.10	2.10
(3)				2.0739	2.07	2.07
(4)				2.0945	2.09	2.09
903069-005 (1)	Mean = 3.2162 mg/L	20	1	3.2787	3.28	3.28

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml}}{\text{Sample weight (g) x \% solids}}$
(If not detected, report < _____)

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / 9060 #124260

Analyst: DAH
Date: 3/24/09 1500
Reviewed by / Date: a 3.25.09

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
903069-005 (2)		20	1	3.1699	3.17	3.17
(3)				3.1896	3.19	3.19
(4)				3.2265	3.23	3.23
#43278	CCV2	20	3	11.1848	11.18	33.6
blank	CCB2	20	1	.2848	.28	<1.0
903069-006 (1)	Mean = 2.7235 mg/L	20	1	2.6785	2.68	2.68
(2)				2.7140	2.71	2.71
(3)				2.7404	2.74	2.74
(4)				2.7611	2.76	2.76
903069-007 (1)	Mean = 6.5050 mg/L	20	1	6.3960	6.40	6.40
(2)				6.4850	6.49	6.49
(3)				6.5204	6.52	6.52
(4)				6.6186	6.62	6.62
903069-007MS (1)	Mean = 11.6295 mg/L	20	1	11.5700	11.57	11.57
(2)	Spike = 5.00 mg/L #41761	20	1	11.6891	11.69	11.69
#43278	CCV3	20	3	11.3829	11.38	34.1
blank	CCB3	20	1	0.3473	0.35	<1.0
903069-008 (1)	Mean = 4.4843 mg/L	20	1	4.4690	4.47	4.47
(2)				4.4786	4.48	4.48
(3)				4.4899	4.49	4.49
(4)				4.5003	4.50	4.50
903069-009 (1)	Mean = 14.3853	20	1	14.4006	14.40	14.40
(2)				14.2084	14.21	14.21
(3)				14.3991	14.40	14.40
(4)				14.4731	14.47	14.47
CCV4 #43278	CCV4	20	3	11.2162	11.22	33.7
blank	CCB4	20	1	0.3785	0.38	<1.0

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = (instrument reading vs.cal. Curve) x 0.040ml / Sample weight (g) x % solids
(If not detected, report < _____)

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1								☐									
2								☐									
3								☐									
4	Sulfide	AN	903057-002-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
5	Sulfide	AN	903057-003-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
6	Sulfide	AN	903057-004-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
7	Sulfide	AN	903057-005-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
8	Sulfide	AN	903062-001-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
9	Sulfide	AN	903062-001-04	MD / S	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
10	Sulfide	AN	903062-002-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
11	Sulfide	AN	903062-002-04	MD / S	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
12	Sulfide	AN	903062-003-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
13	Sulfide	AN	903062-004-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
14	Sulfide	AN	903062-005-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
15	Sulfide	AN	903062-006-04	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
16	Sulfide	AN	903069-001-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
17	Sulfide	AN	903069-002-10	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
18	Sulfide	AN	903069-002-10	MD / S	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
19	Sulfide	AN	903069-003-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
20	Sulfide	AN	903069-004-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
21	Sulfide	AN	903069-005-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
22	Sulfide	AN	903069-006-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
23	Sulfide	AN	903069-007-10	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
24	Sulfide	AN	903069-007-10	MD / S	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
25	Sulfide	AN	903069-008-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
26	Sulfide	AN	903069-009-08	SMP /	E376.1	0	2.0000	☑	0.0000	1.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000

Method Title: Sulfide (~~Titrimetric~~)
Method Reference: ~~MCAWW 376.1~~ / 9031
Normality of Iodine (~~Avg. N~~): 0.02625
Detection Limit: 2.0 mg/L

#124037

Analyst: DAM
Date / Time: 3-17-09 / 1200
Reviewed by/Date: C 3-18-09

ANALYSIS RAW DATA

Work Order	Frac.	Client ID	Sample Vol. (ml)	Iodine (ml)	Sodium Thiosulfate (ml)	Sulfide mg/L
ICV #14435		ICV	20	5	5.13	4.40
ICB blank		ICB	20	5	5.34	< 2.0
903062	001		20	5	5.35	< 2.0
	001 MD		20	5	5.36	< 2.0
	002		20	5	5.34	< 2.0
	002 MD		20	5	5.35	< 2.0
	003		20	5	5.35	< 2.0
	004		20	5	5.34	< 2.0
	005		20	5	5.30	< 2.0
↓	006		20	5	5.37	< 2.0
903057	002		20	5	5.33	< 2.0
↓	003		20	5	5.26	< 2.0
CCV #14435		CCV	20	5	5.15	4.00
blank		CCB	20	5	5.35	< 2.0
903057	004		20	5	5.36	< 2.0
↓	005		20	5	5.35	< 2.0
903069	001		20	5	5.28	< 2.0
	002		20	5	5.30	< 2.0
	002 MD		20	5	5.32	< 2.0
	003		20	5	5.26	< 2.0
	004		20	5	5.28	< 2.0
	005		20	5	5.30	< 2.0
↓	006		20	5	5.27	< 2.0

CALCULATION:

1. mg/L Sulfide = $\frac{[(A \times B) - (C \times D)] \times 16000}{\text{mL Sample}}$ (.12375)

where:

A = ml Iodine ; B = Normality of iodine;
C = ml $Na_2S_2O_3$ titrant; D = Normality of $Na_2S_2O_3$

Continued →

* H2O Final Results = Dilution Factor X Concentration

Soil Final Results = $\frac{\text{Dilution Factor x Concentration x extract volume}}{\text{wt. of sample x \% solids}}$

Method Title: Sulfide ~~(Titrimetric)~~
Method Reference: ~~MCAWW 376.1~~ / 9031
Normality of Iodine (Avg. N): .02675
Detection Limit: 2.0 mg/L

Analyst: DAH
Date / Time: 3-17-09 / 1500
Reviewed by/Date: CS-18-09

Cont.

ANALYSIS RAW DATA

Work Order	Frac.	Client ID	Sample Vol. (ml)	Iodine (ml)	Sodium Thiosulfate (ml)	Sulfide mg/L
903069	007		20	5	5.30	< 2.0
#44135		CCV2	20	5	5.15	4.00
blank		CCB2	20	5	5.32	< 2.0
903069	007MD		20	5	5.29	< 2.0
903069	008		20	5	5.27	< 2.0
903069	009		20	5	5.26	< 2.0
#44135		CCV3	20	5	5.16	3.80
blank		CCB3	20	5	5.35	< 2.0

DAH 3-19-09

CALCULATION:

1. mg/L Sulfide = $\frac{[(AXB) - (CXD)] \times 16000}{mL\ Sample}$

where:
A = ml Iodine ; B = Normality of iodine;
C = ml $Na_2S_2O_3$ titrant; D = Normality of $Na_2S_2O_3$

* H2O Final Results = Dilution Factor X Concentration

Soil Final Results = $\frac{Dilution\ Factor \times Concentration \times extract\ volume}{wt.\ of\ sample \times \%\ solids}$

C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLLP

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC

Client: CH2M Hill

Work-Order # 903069

STD Solution ID: #43278

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	33.9	106	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	32.6	102	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	34.1	107	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	32.9	103	90 - 110%

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC

Client: CH2M Hill

Work-Order # 903069

STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.40	110	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	4.00	4.00	100	70 - 130%

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C/MCAWW415.2
Lloyd Kahn / ~~9060~~

Analyst: 2111
Date: 3-24-09 | 1300
Reviewed by / Date: GO 3.25.09

Instrument/Apparatus: Pheonix 8000 - #G

Calibration:

A. 1000ppm Stock Standard Solution ID: #41761
B. 2000ppm Working Standard Solution
C. 10ppm Working Standard Solution

Calibration Curve: see chart/graph to left

Std. Conc. mg/L	ml Stock Solution	F.V. ml	Instrument Reading
0		100	99421
1.0		100	696265
2.5		100	1601749
5.0		100	3175560
10		100	6124574
15		100	9349585
20		100	12272438
		100	

Corr. Coeff: (≥ 0.9950) .99987
y-Intercept: 89838
Slope: 1.528x 10^5
System Blank: 57,668

CCV3 34.1 mg/L
CCV3 107%
CCV4 33.6 mg/L
CCV4 105%

QC Analysis
QC ID: #43278
T.V.: 31.9 mg/L

Acceptance Range: 90-110%
Found Value:
ICV 33.5 mg/L
% Recovery:
ICV 105%

CCV1 33.3 mg/L CCV2 33.6 mg/L
CCV1 104% CCV2 105%

Matrix Spike Analysis:
Spike Acceptance Range: 15%
Sample ID #1 903069-002 Sample ID #2 903069-007
Sample Value #1 1.09 mg/L Sample Value #2: 6.50 mg/L
Spike Sample Value #1 6.40 mg/L #2: 11.63 mg/L
Spike Amount: 5.00 mg/L
% Recovery #1 106% #2: 107.5%

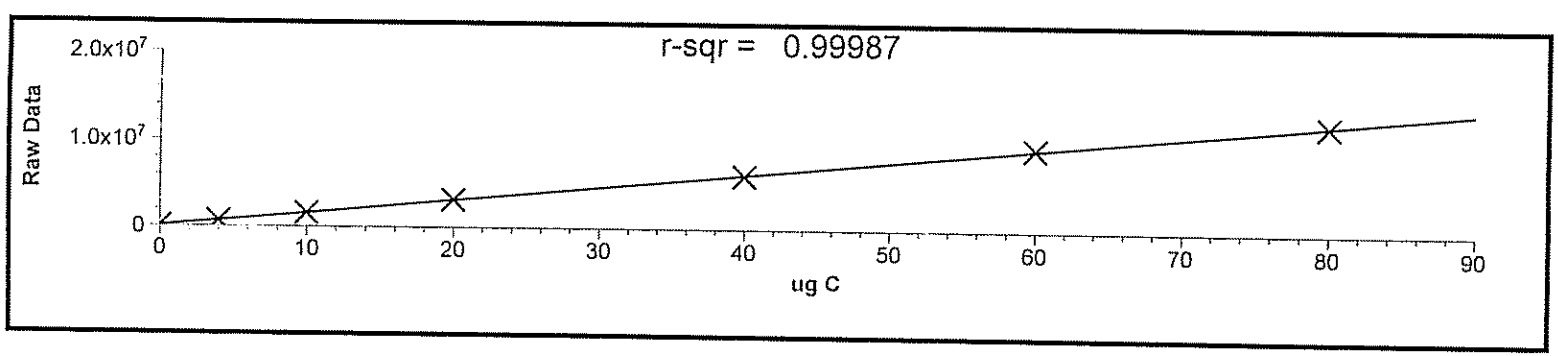
Duplicate Analysis
Dup Acceptance Range: 15%
Sample ID #1 / #2 * / _____
Init. Samp. Value #1 / #2 _____ / _____
Dup. Samp. Value #1 / #2 _____ / _____
RPD #1 / #2 _____ / _____

Comments: * samples run in quadruplicate for SW9060

Calibration Report Print Date/Time: 2009/03/24 0:48:09

Cal. Curve ID:	WATER LOW
Created:	02/25/2009 14:35
Calibration Factor (m):	1.528e+05
Y Intercept (b):	89838
r-squared:	0.99987

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
Blank	99421	0.000	0.063		02/25/2009 13:25
1ppm	696265	4.000	3.970		02/25/2009 13:32
2.5ppm	1601749	10.000	9.897		02/25/2009 13:39
5ppm	3175560	20.000	20.200		02/25/2009 13:46
10ppm	6124574	40.000	39.505		02/25/2009 13:54
20ppm	12272438	80.000	79.750		02/25/2009 14:16
15ppm	9349585	60.000	60.616		02/25/2009 14:34



Method Title: Sulfide, ~~Titrimetric~~, Sodium Thiosulfate
Method Reference: MCAWW 376.1 / 9031

Analyst: DAH
Date / Time: 3-17-09 / 1200
Reviewed by/Date: 3-18-09

Instrument/Apparatus: Titration

Calibration:
Standardization Iodine Solution

Iodine Solution N = $\frac{\text{ml of } Na_2S_2O_3 \times 0.025N}{\text{5 ml of Iodine}}$

	ID#	Vol. Used / ml	Normality
Sodium Thiosulfate	#45177	5.35	0.025 N
Sodium Thiosulfate	↓	5.35	0.025 N
Iodine solution	#44753	5	N 1= .02675
Iodine solution	↓	5	N 2= .02675
			Avg N = .02675

QC Analysis
ICV Analysis
ICV ID: #44135
T.V.: 4.0 mg/L
Acceptance Range: 70-130%
ICV 4.40 mg/L CCV1 4.00 mg/L CCV2 4.00 mg/L
% Rec: ICV 110% CCV1 100% CCV2 100%

Duplicate Analysis Acceptance Range: 15%
Sample ID #1: 803062-001
Init. Sample Value #1: 42 mg/L
Dup. Sample Value #1: 42 mg/L
RPD #1: N/C

Sample ID #2: 803062-002
Init. Sample Value #2: 42 mg/L
Dup. Sample Value #2: 42 mg/L
RPD #2: N/C

LCS Analysis
LCS ID: N/A
T.V.:
F.V. #1:
% R #1:

LCS ID:
T.V.:
F.V. #2:
% R #2:

Reagent:
Starch Indicator ID: #44045
HCL ID: #45244

Comments:

D. Raw QC Data
(as applicable)

1. Blank Data

2. Matrix Spike/Duplicate Data

3. Laboratory Control Standard Data

5. Extraction Logsheet

6. Injection Logsheet

7. Percent Solids

GPL Laboratories, LLLP

Detailed Analysis Report Print Date/Time: 2009/03/24 7:16:27

Sample ID: 43278 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240045
Cal. Curve: WATER LOW Timestamp: 03/24/2009 00:51
Operator ID: DH Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.1635	44.6539	6911166	11.885	12.883	131

Sample ID: ICB Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240052
Cal. Curve: WATER LOW Timestamp: 03/24/2009 00:58
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2667	1.0669	220650	11.898	12.892	54

Sample ID: 903069-001 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240058
Cal. Curve: WATER LOW Timestamp: 03/24/2009 01:34
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.1141	12.4564	1960515	11.791	12.790	283
2	3.1820	12.7279	2001981	11.953	12.953	259
3	3.1799	12.7195	2000701	11.883	12.882	269
4	3.1921	12.7686	2008195	11.828	12.826	280

<<<Statistics>>> Mean: 3.1670 Std Dev: 0.0357 RSD: 1.13

Sample ID: 903069-002 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240138
Cal. Curve: WATER LOW Timestamp: 03/24/2009 02:00
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

				Baseline	Baseline	Time
1	1.1873	4.7490	783132	11.714	12.713	84
2	1.0740	4.2961	713945	11.733	12.729	72
3	1.0436	4.1744	695356	11.730	12.729	70
4	1.0367	4.1469	691153	11.693	12.690	71

<<<Statistics>>> Mean: 1.0854 Std Dev: 0.0698 RSD: 6.43

Sample ID: 903069-002MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03240213
Timestamp: 03/24/2009 02:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.4693	25.8774	4010699	11.589	12.588	133
2	6.3311	25.3243	3926210	11.998	12.997	96

<<<Statistics>>> Mean: 6.4002 Std Dev: 0.0977 RSD: 1.53

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03240227
Timestamp: 03/24/2009 02:33
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.0870	44.3479	6864423	11.830	12.830	138

Sample ID: CCB1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03240235
Timestamp: 03/24/2009 02:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3032	1.2128	242937	11.977	12.967	51

Sample ID: 903069-003

Mode: TOC

Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Filename: 03240242
Timestamp: 03/24/2009 03:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.1561	12.6245	1986182	11.713	12.711	99
2	3.1974	12.7897	2011428	11.726	12.725	90
3	3.0982	12.3930	1950822	11.556	12.552	88
4	3.1930	12.7722	2008750	11.367	12.365	90

<<<Statistics>>> Mean: 3.1612 Std Dev: 0.0459 RSD: 1.45

Sample ID: 903069-004
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03240309
Timestamp: 03/24/2009 03:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1561	8.6246	1375161	11.134	12.132	81
2	2.0986	8.3943	1339980	11.020	12.016	80
3	2.0739	8.2956	1324907	10.927	11.925	78
4	2.0945	8.3782	1337522	10.814	11.812	77

<<<Statistics>>> Mean: 2.1058 Std Dev: 0.0352 RSD: 1.67

Sample ID: 903069-005
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03240351
Timestamp: 03/24/2009 04:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.2787	13.1146	2061059	10.382	11.382	108
2	3.1699	12.6798	1994629	10.510	11.509	97
3	3.1896	12.7584	2006641	10.478	11.477	96
4	3.2265	12.9060	2029189	10.476	11.474	99

<<<Statistics>>> Mean: 3.2162 Std Dev: 0.0478 RSD: 1.49

Sample ID: 43278 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240422
Cal. Curve: WATER LOW Timestamp: 03/24/2009 04:28
Operator ID: DH Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.1848	44.7394	6924233	10.457	11.455	136

Sample ID: CCB2 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240430
Cal. Curve: WATER LOW Timestamp: 03/24/2009 04:35
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2848	1.1390	231668	10.707	11.704	51

Sample ID: 903069-006 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240436
Cal. Curve: WATER LOW Timestamp: 03/24/2009 04:59
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.6785	10.7140	1694339	10.569	11.566	82
2	2.7140	10.8558	1716007	10.554	11.552	84
3	2.7404	10.9615	1732150			
	10.461	11.460	84			
4	2.7611	11.0444	1744817	10.457	11.452	84

<<<Statistics>>> Mean: 2.7235 Std Dev: 0.0357 RSD: 1.31

Sample ID: 903069-007 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240501
Cal. Curve: WATER LOW Timestamp: 03/24/2009 05:27
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.3960	25.5842	3965912	10.357	11.357	112

2	6.4850	25.9398	4020236	10.342	11.341	126
3	6.5204	26.0816	4041901	10.400	11.399	108
4	6.6186	26.4746	4101927	10.393	11.390	119

<<<Statistics>>> Mean: 6.5050 Std Dev: 0.0921 RSD: 1.42

Sample ID: 903069-007MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03240527
Timestamp: 03/24/2009 05:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.5700	46.2799	7127389	10.443	11.441	135
2	11.6891	46.7564	7200184	10.475	11.474	130

<<<Statistics>>> Mean: 11.6295 Std Dev: 0.0842 RSD: 0.72

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03240541
Timestamp: 03/24/2009 05:48
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.3829	45.5316	7045249	10.633	11.631	143

Sample ID: CCB3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03240549
Timestamp: 03/24/2009 05:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3473	1.3891	269874	10.584	11.575	52

Sample ID: 903069-008
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW

Mode: TOC
Filename: 03240557
Timestamp: 03/24/2009 06:26

Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.4690	17.8760	2788410	10.395	11.393	167
2	4.4786	17.9142	2794249	10.497	11.494	150
3	4.4894	17.9576	2800874	10.463	11.462	155
4	4.5003	18.0011	2807512	10.455	11.453	155

<<<Statistics>>> Mean: 4.4843 Std Dev: 0.0135 RSD: 0.30

Sample ID: 903069-009 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240627
Cal. Curve: WATER LOW Timestamp: 03/24/2009 06:58
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.4006	57.6025	8857035	10.298	11.298	230
2	14.2684	57.0736	8776235	10.387	11.387	178
3	14.3991	57.5965	8856115	10.327	11.326	166
4	14.4731	57.8926	8901342	10.308	11.307	178

<<<Statistics>>> Mean: 14.3853 Std Dev: 0.0852 RSD: 0.59

Sample ID: 43278 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240659
Cal. Curve: WATER LOW Timestamp: 03/24/2009 07:05
Operator ID: DH Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.2162	44.8647	6943381	10.433	11.432	128

Sample ID: CCB4 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03240707
Cal. Curve: WATER LOW Timestamp: 03/24/2009 07:12
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1	0.3785	1.5141	288959	10.328	11.325	53

GPL Laboratories

Work Order Approval

Work Order #: 903069
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-12-2009
Fax Due Date: Mar-25-2009
HC Due Date: Mar-25-2009
EDD Due Date Mar-25-2009

APPROVED

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

Contact: Emma Brower
Phone: 7033765082
Fax: 7033765582
E-Mail:

Comments: Level 4 Data Package
SNEDD EDD
ALL METHODS MUST MEET QSM VERSION 3 GUIDELINES.
For TOC Analysis CH2M Hill requests quadruplicate results on form 1's, and average result in EDD.

Lab ID : 903069-001 Field ID : OU1-16GW09-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-8A	COOL	7D	
Sulfide by EPA 376.1	W	8	A-8A	SAPC	7D	
Total Organic Carbon	W	8	A-8A	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903069-002 Field ID : OU1-16GW40-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	24	A1-6	HC	28D	(Use for QC)
GCFID Analysis of hydrocarbon gases	W	24	A1-6	HC	28D	(Use for QC) (On Hold/Spare)
Inorganic Anions by EPA 300	W	24	A-8A	COOL	7D	(Use for QC)
Inorganic Anions by EPA 300	W	24	A-8A	COOL	7D	(Use for QC) (On Hold/Spare)
Sulfide by EPA 376.1	W	24	A-8A	SAPC	7D	(Use for QC)
Sulfide by EPA 376.1	W	24	A-8A	SAPC	7D	(Use for QC) (On Hold/Spare)
Total Organic Carbon	W	24	A-8A	SCPH2	7D	(Use for QC)
Total Organic Carbon	W	24	A-8A	SCPH2	7D	(Use for QC) (On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	24	A1-6	HC	21D	(Use for QC)
VOC by Method SW-846 using 25 ML Purge	W	24	A1-6	HC	21D	(Use for QC) (On Hold/Spare)

Lab ID : 903069-003 Field ID : OU1-16GW41-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-8A	COOL	7D	
Sulfide by EPA 376.1	W	8	A-8A	SAPC	7D	
Total Organic Carbon	W	8	A-8A	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

Work Order #: 903069
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-12-2009
Fax Due Date: Mar-25-2009
HC Due Date: Mar-25-2009
EDD Due Date Mar-25-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903069-004 Field ID : OU1-16GW03-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-8A	COOL	7D	
Sulfide by EPA 376.1	W	8	A-8A	SAPC	7D	
Total Organic Carbon	W	8	A-8A	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903069-005 Field ID : OU1-16GW42-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-8A	COOL	7D	
Sulfide by EPA 376.1	W	8	A-8A	SAPC	7D	
Total Organic Carbon	W	8	A-8A	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903069-006 Field ID : OU1-16GW04-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-8A	COOL	7D	
Sulfide by EPA 376.1	W	8	A-8A	SAPC	7D	
Total Organic Carbon	W	8	A-8A	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903069-007 Field ID : OU1-16GW02-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	24	A1-6	HC	28D	(Use for QC)
GCFID Analysis of hydrocarbon gases	W	24	A1-6	HC	28D	(Use for QC) (On Hold/Spare)
Inorganic Anions by EPA 300	W	24	A-8A	COOL	7D	(Use for QC)
Inorganic Anions by EPA 300	W	24	A-8A	COOL	7D	(Use for QC) (On Hold/Spare)
Sulfide by EPA 376.1	W	24	A-8A	SAPC	7D	(Use for QC)
Sulfide by EPA 376.1	W	24	A-8A	SAPC	7D	(Use for QC) (On Hold/Spare)
Total Organic Carbon	W	24	A-8A	SCPH2	7D	(Use for QC)
Total Organic Carbon	W	24	A-8A	SCPH2	7D	(Use for QC) (On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	24	A1-6	HC	21D	(Use for QC)
VOC by Method SW-846 using 25 ML Purge	W	24	A1-6	HC	21D	(Use for QC) (On Hold/Spare)

Approved By: _____ **Date and Time Approved :** _____

GPL Laboratories

Work Order Approval

Work Order #: 903069
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-12-2009
Fax Due Date: Mar-25-2009
HC Due Date: Mar-25-2009
EDD Due Date Mar-25-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903069-008 Field ID : OU1-MW48-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-8A	COOL	7D	
Sulfide by EPA 376.1	W	8	A-8A	SAPC	7D	
Total Organic Carbon	W	8	A-8A	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903069-009 Field ID : OU1-MW12-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-8A	COOL	7D	
Sulfide by EPA 376.1	W	8	A-8A	SAPC	7D	
Total Organic Carbon	W	8	A-8A	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903069-010 Field ID : OUI-TB02-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
VOC by Method SW-846 using 25 ML Purge	W	3	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-6	HC	21D	

Lab ID : 903069-011 Field ID : OUI-TB03-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
VOC by Method SW-846 using 25 ML Purge	W	3	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-6	HC	21D	

Lab ID : 903069-012 Field ID : OUI-TB04-0309 Date Collected : 11-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
VOC by Method SW-846 using 25 ML Purge	W	3	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-6	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

CTO 59

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

~~Contract #/Billing Reference~~ Nitrate and Nitrite are 48 hours; Chloride is 28 days

Project: Groundwater Sampling at OU1 Cherry Point
Client: CH2MHill
Send Results To: Bill Hannah
Address: 5700 Cleveland St. Suite 101
Virginia Beach, Va. 23462
Phone: 757-671-6277

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	SW 8260 8260B (VOC)	EPA 300.0 (Nitrate, Nitrite and Chloride)	EPA 376.1 (Sulfide)	RSK-175 (Methane, Ethane, Ethene)	SW846 9060 (Total Organic Carbon)	Lab Cooler No.	CLIENT COMMENTS
Turnaround Time					14 days	See Above	7 days	14 days	28 days		
# of Containers					3	1	1	2	1		
Container Type					VOA	8oz Plastic	8oz Plastic	VOA	8oz Amber		
Preservative Used					HCl	None	NaOH	HCL	H2SO4		
OU1-16GW09-0309	3/11/09	9:55	Water	PVT	3	1	1	2 (5)	1		
OU1-16GW40-0309	3/11/09	11:15	Water	PVT	3	1	1	2 (5)	1		
OU1-16GW41-0309	3/11/09	12:15	Water	PVT	3	1	1	2 (5)	1		
OU1-16GW03-0309	3/11/09	13:55	Water	PVT	3	1	1	2 (5)	1		
OU1-MS01-0309	3/11/09	11:15	Water	PVT	3	1	1	2 (5)	1		QA/QC; Taken at GW40
OU1-MSD01-0309	3/11/09	11:15	Water	PVT	3	1	1	2 (5)	1		QA/QC; Taken at GW40
OU1-16GW42-0309	3/11/09	15:00	Water	PVT	3	1	1	2 (5)	1		
OU1-16GW04-0309	3/11/09	15:50	Water	PVT	3	1	1	2	1		
OU1-16GW02-0309	3/11/09	12:48	Water	KB	3	1	1	2	1		
OU1-MW48-0309	3/11/09	15:38	Water	KB	3	1	1	2	1		
OU1-MW12-0309	3/11/09	16:52	Water	KB	3	1	1	2	1		
OU1-MS02-0309	3/11/09	12:50	Water	KB	3	1	1	2	1		QA/QC; Take at GW02

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Dana Miller	3/11/09 18:13				3/12/09 15
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
Relinquished By:	Date/Time	Received By:	Lab Comments:		Temp: 2°

G.P. W.O. 403069

GTO59

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

~~Contract #/Billing Reference~~
Nitrate and Nitrite are 48 hours; Chloride is 28 days

2 of 2 Pgs.

Project: Groundwater Sampling at OU1 Cherry Point
Client: CH2MHill
Send Results To: Bill Hannah
Address: 5700 Cleveland St. Suite 101
Virginia Beach, Va. 23462
Phone: 757-671-6277

Turnaround Time	14 days	See Above	7 days	14 days	28 days
# of Containers	3	1	1	2	1
Container Type	VOA	8oz Plastic	8oz Plastic	VOA	8oz Plastic
Preservative Used	HCL	None	NaOH	HCL	H2SO4

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	SW8260 B (VOCs)	EPA 300.0 (Nitrate, Nitrite and Chloride)	EPA 376.1 (Sulfide)	RSK-175 (Methane, Ethane and Ethene)	SW8015 GRO (Total Organic Carbon)	Lab Cooler No.	CLIENT COMMENTS
OU1-MSD02-0309	3/11/09	12:52	Water	KB	3	1	1	2	1		QA/QC; Taken at GW02
~~OU1-TB03 3/11/09~~	~~3/11/09~~		~~Water~~	~~DM~~							~~QA/QC~~
~~OU1-TB02 (3/11/09~~											
OU1-TB02-0309	3/11/09	—	Water	DM	3						QA/QC
OU1-TB03-0309	3/11/09	—	Water	DM	3						QA/QC
OU1-TB04-0309	3/11/09	—	Water	DM	3						QA/QC

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Dana Miller	3/11/09 18:13				3/12/09 9:20
Relinquished By:	Date/Time	Received By:	Date/Time / Shipper:	Airbill No.:	
Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp: 3°	

G.P. W.O. 903069

FedEx US Airbill

8689 0120 8624

0200

FedEx Retrieval Copy

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From

Date

Sender's FedEx Account Number

Sender's Name

Phone

Company

Address

Dept/Floor/Suite/Room

City

State

ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name

Phone

Company

Recipient's Address

We cannot deliver to P.O. boxes or P.O. ZIP Codes.

Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City

State MD

ZIP 21703

8689 0120 8624

4a Express Package Service

Packages up to 150 lbs.

1 FedEx Priority Overnight

5 FedEx Standard Overnight

6 FedEx First Overnight

3 FedEx 2Day

20 FedEx Express Saver

* Times may vary by location.

4b Express Freight Service

Packages over 150 lbs.

7 FedEx 1Day Freight*

8 FedEx 2Day Freight

83 FedEx 3Day Freight

* Call for Confirmation.

** Terms may vary by location.

5 Packaging

6 FedEx Envelope*

2 FedEx Pak*

3 FedEx Box

4 FedEx Tube

11 Other

* Declared value limit $500

6 Special Handling

Includes FedEx address in Section 3

3 SATURDAY Delivery

11 HOLD Weekday at FedEx Location

31 HOLD Saturday at FedEx Location

Does this shipment contain dangerous goods?

One box must be checked

1 No

4 Yes As per attached Shipper's Declaration

5 Yes Shipper's Declaration not required

6 Dry Ice, 9, UN 1845 x kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain Recip Acct. No.

1 Sender Acct No in Section 1 will be billed

2 Recipient

3 Third Party

4 Credit Card

5 Cash/Check

Total Packages

Total Weight

Your liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

Credit Card Auth

8 Residential Delivery Signature Options

No Signature Required Package may be left without obtaining a signature for delivery.

10 Direct Signature Someone at recipient's address may sign for delivery. Fee applies.

34 Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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FedEx Airbill

8689 0120 8705

0200

FedEx Retrieval Copy

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From

Sender's FedEx Account Number

Name [illegible] Phone [illegible]

Company [illegible]

Address [illegible]

Dept/Floor/Suite/Room

City [illegible] State [illegible] ZIP [illegible]

2 Your Internal Billing Reference

3 To

Recipient's Name [illegible] Phone 301 694-5310

Company GPL Laboratories

Recipient's Address 3210 A Corporate Court

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Frederick State MD ZIP 21703

8689 0120 8705

4a Express Package Service — Packages up to 150 lbs.

1 [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

20 [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

21 [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx First Overnight not available. Minimum charge. One package limit.

* Call for Confirmation

4b Express Freight Service — Packages over 150 lbs.

7 [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation ** To most locations.

5 Packaging

6 [ ] FedEx Envelope* 2 [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak 3 [ ] FedEx Box 4 [ ] FedEx Tube 1 [X] Other

* Declared value limit $500

6 Special Handling — Include FedEx address in Section 3.

3 [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

1 [ ] HOLD Weekday at FedEx Location — Not available for FedEx 2Day shipments.

31 [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

[ ] No 4 [ ] Yes — As per attached Shipper's Declaration

[ ] Yes — Shipper's Declaration not required 6 [ ] Dry Ice — Dry Ice, 9, UN 1845 x [illegible] kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment — Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip Acct. No.

1 [ ] Sender — Acct. No. in Section 1 will be billed 2 [ ] Recipient 3 [X] Third Party 4 [ ] Credit Card 5 [ ] Cash/Check

[redacted] 18 [redacted]

Total Packages: 1 Total Weight: 50.0 [redacted]

Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details. Card Auth

8 Residential Delivery Signature Options — If you require a signature, check Direct or Indirect.

[ ] No Signature Required — Package may be left without obtaining a signature for delivery. 10 [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies. 34 [ ] Indirect Signature — Someone at recipient's address or someone at a neighboring address may sign for delivery. Fee applies.

520

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FedEx Express **US Airbill** 8689 0120 8613 0200 Form ID No. FedEx Retrieval Copy

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From

Date [illegible] Sender's FedEx Account Number

Sender's Name [illegible] Phone [illegible]

Company [illegible]

Address [illegible] Dept/Floor/Suite/Room

City [illegible] State NC ZIP [illegible]

2 Your Internal Billing Reference

3 To

Recipient's Name Attn: Sample Receiving Phone 301 694-5310

Company GPL Laboratories

Recipient's Address 7210 A Corporate Court

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Frederick State MD ZIP 21703

8689 0120 8613

4a Express Package Service Packages up to 150 lbs.

1 [X] FedEx Priority Overnight — 5 [ ] FedEx Standard Overnight — [ ] FedEx First Overnight

3 [ ] FedEx 2Day — 20 [ ] FedEx Express Saver

4b Express Freight Service Packages over 150 lbs.

7 [ ] FedEx 1Day Freight* — 8 [ ] FedEx 2Day Freight — 83 [ ] FedEx 3Day Freight

5 Packaging

6 [ ] FedEx Envelope* — 2 [ ] FedEx Pak* — 3 [ ] FedEx Box — 4 [ ] FedEx Tube — 1 [ ] Other

6 Special Handling Include FedEx address in Section 3.

3 [ ] SATURDAY Delivery — 1 [ ] HOLD Weekday at FedEx Location — 31 [ ] HOLD Saturday at FedEx Location

Does this shipment contain dangerous goods? One box must be checked.

[ ] No — 4 [ ] Yes As per attached Shipper's Declaration — [ ] Yes Shipper's Declaration not required — 6 [ ] Dry Ice

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

1 [ ] Sender Acct. No. in Section 1 will be billed — 2 [ ] Recipient — 3 [X] Third Party — 4 [ ] Credit Card — 5 [ ] Cash/Check

[redacted]

Total Packages 1 — Total Weight 4 — [redacted]

Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options

[ ] No Signature Required — 10 [ ] Direct Signature — 34 [ ] Indirect Signature

520

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GPL Laboratories, LLLP

Figure 3

Sample Preservation Check Documentation Form

Work Order: 903069

Parameter: / Preservative: / pH Value	Metals (*A) HNO3 <2	Phenol H2SO4 <2	TPH O&G H2SO4 <2	Classical Parameters H2SO4 <2	Cyanide NaOH >12	Sulfide NaOH >9	Radiology (*B) HNO3 <2	Other Preservatio Adjustment	Reagent Lot #	see checklist for comments
GPL ID										
OUI-166W09-0309				/		/		Y / N		
OUI-166W40-0309				/		/		Y / N		
OUI-166W41-0309				/		/		Y / N		
OUI-166W03-0309				/		/		Y / N		
OUI-MSD1-0309				/		/		Y / N		
OUI-166W42-0309				/		/		Y / N		
OUI-166W04-0309				/		/		Y / N		
OUI-166W02-0309				/		/		Y / N		
OUI-MW48-0309				/		/		Y / N		
OUI-MW12-0309				/		/		Y / N		
OUI-MS02-0309				/		/		Y / N		
OUI-MSD02-0309				/		/		Y / N		-
				/				Y / N		
								Y / N		
								Y / N		
								Y / N		
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								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		

(*A). If drinking water metals sample is acidified in the laboratory, the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.

(*B). If Radiochemistry sample is acidified in the laboratory, the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement. Tritium analysis should NOT be preserved.

Sample Preservation Check Performed By: Pat

Date: 3-2-09

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903069
Client Name: CH2M Hill
Date Received: 3-12-09
Time Received: 9:58
Received By: Travis

Carrier Name: Fedex
Prepared (Logged In) By: PM 3-12-09
Project:
Site:
VOA Holding Blank ID No:

	YES	NO
Airbill/Manifest Present? No: 8689 0120 8624	✓	
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?	1	
Condition: Good ✓ Broken		
Chain of Custody Present?	✓	
Chain of Custody Agrees with Sample Labels?	✓	
Chain of Custody Signed?	✓	
Packing Present in Shipping Container?	1	
Type of Packing Bubble Wrap		
Custody Seals on Sample Bottles?	1	
Condition: Good 1 Broken		
Total Number of Sample Bottles 113	✓	
Total Number of Samples 11 pw12	✓	
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	1	

	YES	NO
Trip Blanks Received?	1	
No. of Sets 6		
VOA Vials Have Zero Headspace?	✓	
Preservatives Added to Sample?	✓	
pH Check Required?	✓	
Performed By: PM		
Ice Present in Shipping Container?	1	

Container #	Temperature
3	3°

Project Manager Contacted?
Name: Garth
Date Contacted: 3-12-09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: This is All QC

Checklist Completed By: Pat
Date: 3-12-09

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903069

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Twelve water samples were received on 03/12/2009. The samples were delivered by Federal Express. Sample receipt condition and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soi are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Twelve water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
Several samples were diluted to fit the results within the instrument calibration
The surrogate recoveries and internal standard responses were within the QC limits.
Two matrix spikes and two matrix spike duplicates were analyzed on samples OU1-16GW40-0309DL and OU1-16GW02-0309. For sample OU1-16GW40-0309DL, all of the RPDs were within the RPD QC limits, and five spike recoveries, out of one hundred forty, were outside of the QC limits. For sample OU1-16GW02-0309, all of the RPDs were within the RPD QC limits, and nineteen spike recoveries, out of one hundred forty, were outside of the QC limits.
Four laboratory control samples and two laboratory control sample duplicates were analyzed along with the sample batches. For BKS/BKSD108811, the RPD of one compound, out of seventy, was outside of the RPD QC limits, and three spike recoveries, out of one hundred forty, were outside of the QC limits. For BKS/BKSD108821, all of the RPDs were within the RPD QC limits, and six spike recoveries, out of one hundred forty, were outside of the QC limits. BKS108826 had six spike recoveries outside of the QC limits. BKS108829 had three spike recoveries outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrate compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

3/26/09

General Chemistry

Nine water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on samples OU1-16GW02-0309 and OU1-16GW40-0309. All QC criteria were met.

Nine water samples were analyzed for Total Organic Carbon using EPA method 9060. All samples were analyzed in quadruplicate. A matrix spike analysis was performed in duplicate on samples OU1-16GW02-0309 and OU1-16GW02-0309. All QC criteria were met.

Other Analysis

Nine water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

Work Order: 903069 Method: 8260

Volatiles Package Review Checklist

Case Narrative

	Analyst	Reviewer
1. Proofread to ensure there are no spelling and grammatical errors.	✓	
2. All nonconformances and corrective action must be mentioned and explained.	✓	
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	
4. If reanalyses were performed, one analysis must be designated to report results.	✓	

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	
2. Double-check spike amounts for the LCS and MS/MSD.	✓	
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	
4. A form 5 for the initial calibration must be provided.	✓	

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	
$\frac{\text{Raw Conc. x (5/mass)}}{1 - (\%\text{moisture}/100)}$ *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	

Work Order: 903069 Method: 8260

3. Column name & ID are properly labeled.	✓	
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{\text{10mL of MeOH}}{\text{grams of soil}} \times \frac{\text{5mL Purge Volume}}{\text{mL of Extract Spiked}}$	✓	
5. All analyte recoveries over the calibration limit are flagged "E".	✓	
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	✓	
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	✓	

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	
2. All continuing calibrations used to analyze the samples are included.	✓	
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	✓	
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	
4. Injection Logbook copies must be provided for all analysis sequences.	✓	
5. If TCLP, a copy of the Extraction Log must be provided.	✓	
6. If Encore samples, a copy of the Sample Weight Log must be provided.	✓	

Analyst Signature: _____ Date: 3/26/09

Reviewer Signature: _____ Date: _____

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903069

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Twelve water samples were received on 03/12/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Twelve water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
Several samples were diluted to fit the results within the instrument calibration
The surrogate recoveries and internal standard responses were within the QC limits.
Two matrix spikes and two matrix spike duplicates were analyzed on samples OU1-16GW40-0309DL and OU1-16GW02-0309. For sample OU1-16GW40-0309DL, all of the RPDs were within the RPD QC limits, and five spike recoveries, out of one hundred forty, were outside of the QC limits. For sample OU1-16GW02-0309, all of the RPDs were within the RPD QC limits, and nineteen spike recoveries, out of one hundred forty, were outside of the QC limits.
Four laboratory control samples and two laboratory control sample duplicates were analyzed along with the sample batches. For BKS/BKSD108811, the RPD of one compound, out of seventy, was outside of the RPD QC limits, and three spike recoveries, out of one hundred forty, were outside of the QC limits. For BKS/BKSD108821, all of the RPDs were within the RPD QC limits, and six spike recoveries, out of one hundred forty, were outside of the QC limits. BKS108826 had six spike recoveries outside of the QC limits. BKS108829 had three spike recoveries outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Nine water samples were analyzed for Chloride, Nitrate-Nitrogen, and Nitrite-Nitrogen by EPA method 300.0.

Duplicate and matrix spike analyses were performed on samples OU1-16GW40-0309 and OU1-16GW02-0309. Percent recovery of the Nitrite MS of sample OU1-16GW40-0309 was slightly above the QC limits due to an interferring peak in the matrix. Percent recovery of Chloride and Nitrate were below the QC limits in the MS of sample OU1-16GW02-0309. The Nitrate MS was re-analyzed with acceptable recovery. The Chloride MS was repeated at 10mg/L, and recovery was still below the QC limits.

A laboratory control sample was analyzed along with each batch. Recovery of Nitrite in the low LCS on the 3/11/09 run was slightly below the QC limits. Because all ICV and CCV Nitrite recoveries were within QC limits, and no Nitrite was detected above the MDL in any associated sample, no re-injections were required.

Case Narrative

CH2M Hill Inc

Work Order: 903069

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

All other QC criteria were met.
KSA 3/30/09

General Chemistry

Nine water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on samples OU1-16GW02-0309 and OU1-16GW40-0309. All QC criteria were met.

Nine water samples were analyzed for Total Organic Carbon using EPA method 9060. All samples were analyzed in quadruplicate. A matrix spike analysis was performed in duplicate on samples OU1-16GW02-0309 and OU1-16GW02-0309. All QC criteria were met.

Other Analysis

Nine water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were performed on samples OU1-16GW40-0309 and OU1-16GW02-0309. The MS/MSD for sample OU1-16GW40-0309 had two spike recoveries and one %RPD outside of the QC limits. The MS/MSD for sample OU1-16GW02-0309 had one spike recovery outside of the QC limits.

GPL LABORATORIES, LLLP

IC CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903069

PARAMETER: E300

	CRITERIA MET YES	NO	NA
EXTRACTION HOLDING TIMES	___	___	✓
ANALYSIS HOLDING TIMES	✓	___	___
CALIBRATION CURVE	✓	___	___
IF NO,			
INITIAL CALIBRATION	✓	___	___
IF NO,			
CONTINUING CALIBRATION	✓	___	___
RETENTION TIME	✓	___	___
METHOD BLANK	✓	___	___
MS/MSD RECOVERIES	___	✓*	___
IF NO	7 SOP narrative		
DUP RECOVERIES	✓	___	___
LCS RECOVERIES	* see narrative	✓*	___
CALCULATION CHECK	✓	___	___

Is the peak integration in all initial and continuing calibrations as well as each chromatogram, conducted correctly, and in accordance with good laboratory practices and the GPL policies, SOPs and QA manual? ✓ ___

IF" NO", the affected chromatograms must be immediately reviewed and re-integrated by the Lab Director and the QA manager,prior to their final release.

Has the manual integration been signed off on (initialled and dated)? ✓ ___

WAS IMPORTATION INTO LIMS CORRECT? ✓ ___ JA Initials

ADDITIONAL COMMENTS _____

SIGNATURE _____ DATE 3/30/09

REVIEWED BY _____ DATE _____

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903069

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Twelve water samples were received on 03/12/2009. The samples were delivered by Federal Express. Sample receipt condition and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soi are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

General Chemistry

Nine water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on samples OU1-16GW02-0309 and OU1-16GW40-0309. All QC criteria were met.

Nine water samples were analyzed for Total Organic Carbon using EPA method 9060. All samples were analyzed in quadruplicate. A matrix spike analysis was performed in duplicate on samples OU1-16GW02-0309 and OU1-16GW02-0309. All QC criteria were met.

Other Analysis

Nine water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were performed on samples OU1-16GW40-0309 and OU1-16GW02-0309. The MS/MSD for sample OU1-16GW40-0309 had two spike recoveries and one %RPD outside of the QC limits. The MS/MSD fo sample OU1-16GW02-0309 had one spike recovery outside of the QC limits.

3/26/09

Work Order: 903069 Method: RSK

Volatiles Package Review Checklist

Case Narrative

	Analyst	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.	✓	
2. All nonconformances and corrective action must be mentioned and explained.	✓	
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	
4. If reanalyses were performed, one analysis must be designated to report results.	✓	

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	
2. Double-check spike amounts for the LCS and MS/MSD.	✓	
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	
4. A form 5 for the initial calibration must be provided.	✓	

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	
$\frac{\text{Raw Conc. x (5/mass)}}{1 - (\%\text{moisture}/100)}$ *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	

Work Order: 903069 Method: PSK

3. Column name & ID are properly labeled.	✓	
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{\text{10mL of MeOH}}{\text{grams of soil}} \times \frac{\text{5mL Purge Volume}}{\text{mL of Extract Spiked}}$	✓	
5. All analyte recoveries over the calibration limit are flagged "E".	✓	
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	✓	
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	✓	

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	
2. All continuing calibrations used to analyze the samples are included.	✓	
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	✓	
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	
4. Injection Logbook copies must be provided for all analysis sequences.	✓	
5. If TCLP, a copy of the Extraction Log must be provided.	✓	
6. If Encore samples, a copy of the Sample Weight Log must be provided.	✓	

Analyst Signature: _____ Date: 3/26/09

Reviewer Signature: _____ Date: _____

Analytical Report For 903071

for

CH2M Hill Inc

Project Manager: Emma Brower

Project Name: CTO-059 386383.FI.FQ.FQ

GPL Laboratories

GPL Laboratories, LLLP certifies that the test results meet all requirements of the NELAC Standards unless otherwise noted.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Six water samples were received on 03/13/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Six water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.

The surrogate recoveries and internal standard responses were within the QC limits.
A matrix spike and matrix spike duplicate were shared from work order 903080. The RPDs of two compounds out of forty-nine, were outside of the RPD QC limits, and sixteen spike recoveries out of ninety-eight, were outside of the QC limits.

A laboratory control sample was analyzed along with each of the sample batches. BKS108792 had eight spike recoveries outside of the QC limits. BKS108803 had six spike recoveries outside of the QC limits. BKS108804 had four spike recoveries outside of the QC limits.

Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Five water samples were analyzed for Chloride, Nitrate as Nitrogen, and Nitrite as Nitrogen by EPA method 300.0.

Matrix spike and duplicate analyses were performed on sample OUI-MW50-0309. Percent recoveries for Nitrite as Nitrogen and Chloride were outside the QC limits. Since the laboratory control sample recoveries for these analytes were within the QC limits, no corrective action was taken. All other QC criteria were met.

A laboratory control sample was analyzed along with the batch. All QC criteria were met.

General Chemistry

Five water samples were analyzed for Sulfide by EPA method 376.1. A duplicate analysis was performed on sample OU1-16GW33-0309. All QC criteria were met.

Five water samples were analyzed for Total Organic Carbon by SW846 method 9060. All samples were analyzed in quadruplicate. A matrix spike analysis was performed in duplicate on sample OU1-16GW30-0309. All QC criteria were met.

Other Analysis

Five water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the

U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were shared with work order 903062. All of the RPDs were within the RPD QC limits, and all spike recoveries were within the QC limits.

Reviewed By,

Project Manager

Approved By

Laboratory Director

GPL Laboratories, LLLP

Sample Summary Report

CH2M Hill Inc

Work Order: 903071

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
OU1-16GW30-0309	903071-003-001-1/3	SW8260LL	WATER	03/12/2009	03/13/2009
	903071-003-032-1/2	GPL-RSK-175			
	903071-003-020-1/1	E300			
	903071-003-025-1/1	E376.1			
	903071-003-040-1/1	SW9060			
OU1-16GW30-0309DL	903071-003-033-2/2DL	GPL-RSK-175	WATER	03/12/2009	03/13/2009
OU1-16GW31-0309	903071-004-004-1/3	SW8260LL	WATER	03/12/2009	03/13/2009
	903071-004-034-1/2	GPL-RSK-175			
	903071-004-021-1/1	E300			
	903071-004-026-1/1	E376.1			
	903071-004-041-1/1	SW9060			
OU1-16GW31-0309DL	903071-004-035-2/2DL	GPL-RSK-175	WATER	03/12/2009	03/13/2009
OU1-16GW33-0309	903071-001-013-1/3	SW8260LL	WATER	03/12/2009	03/13/2009
	903071-001-028-1/2	GPL-RSK-175			
	903071-001-018-1/1	E300			
	903071-001-023-1/1	E376.1			
	903071-001-038-1/1	SW9060			
OU1-16GW33-0309DL	903071-001-029-2/2DL	GPL-RSK-175	WATER	03/12/2009	03/13/2009
OU1-16MW28-0309	903071-002-016-1/2	SW8260LL	WATER	03/12/2009	03/13/2009
	903071-002-030-1/2	GPL-RSK-175			
	903071-002-019-1/1	E300			
	903071-002-024-1/1	E376.1			
	903071-002-039-1/1	SW9060			
OU1-S3W3-0309	903071-005-007-1/3	SW8260LL	WATER	03/12/2009	03/13/2009
	903071-005-036-1/2	GPL-RSK-175			
	903071-005-022-1/1	E300			
	903071-005-027-1/1	E376.1			
	903071-005-042-1/1	SW9060			
OU1-S3W3-0309DL	903071-005-037-2/2DL	GPL-RSK-175	WATER	03/12/2009	03/13/2009
OU1-TB05-0309	903071-006-010-1/3	SW8260LL	WATER	03/12/2009	03/13/2009

QC SUMMARY PACKAGE

GPL Laboratories

VOLATILE ORGANICS

GPL Laboratories

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903071

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108803	99	117	107	114
BLK108803	96	111	105	107
OU1-S3W3-0309	97	114	99	114
OU1-TB05-0309	95	114	103	114

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER

Analytical Method : SW8260LL

SDG No : 903071

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108804	103	95	105	119
BLK108804	94	96	105	110
OU1-16GW30-0309	92	95	97	111
OU1-16GW31-0309	99	94	103	116

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108792

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108792
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	53	106	80-130
1,1,1-Trichloroethane	50	0	59	118	65-130
1,1,2,2-Tetrachloroethane	50	0	48	96	65-130
1,1,2-Trichloroethane	50	0	50	100	75-125
1,1-Dichloroethane	50	0	61	122	70-135
1,1-Dichloroethene	50	0	53	106	70-130
1,1-Dichloropropene	50	0	53	106	75-130
1,2,3-Trichlorobenzene	50	0	71	142 *	55-140
1,2,3-Trichloropropane	50	0	53	106	75-125
1,2,4-Trichlorobenzene	50	0	72	144 *	65-135
1,2,4-Trimethylbenzene	50	0	57	114	75-130
1,2-Dibromo-3-Chloropropane	50	0	52	104	50-130
1,2-Dichlorobenzene	50	0	67	134 *	70-120
1,2-Dichloroethane	50	0	52	104	70-130
1,2-Dichloropropane	50	0	50	100	75-125
1,3,5-trimethylbenzene	50	0	58	116	75-130
1,3-Dichlorobenzene	50	0	65	130 *	75-125
1,3-Dichloropropane	50	0	41	82	75-125
1,4-Dichlorobenzene	50	0	64	128 *	75-125
2,2-Dichloropropane	50	0	53	106	70-135
2-Butanone	100	0	110	110	30-150
2-Chlorotoluene	50	0	63	126 *	75-125
2-Hexanone	100	0	76	76	55-130
4-Chlorotoluene	50	0	60	120	75-130
4-Isopropyltoluene	50	0	65	130	75-130

* Values Outside of QC Limits.

Spike recovery : 6 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108792

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108792
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	71	71	60-135
Acetone	100	0	130	130	40-140
Benzene	50	0	48	96	80-120
Bromobenzene	50	0	63	126 *	75-125
Bromochloromethane	50	0	59	118	65-130
Bromodichloromethane	50	0	51	102	75-120
Bromoform	50	0	47	94	70-130
Bromomethane	50	0	58	116	30-145
Carbon Disulfide	50	0	49	98	35-160
Carbon Tetrachloride	50	0	56	112	65-140
Chlorobenzene	50	0	55	110	80-120
Chloroethane	50	0	44	88	60-135
Chloroform	50	0	55	110	65-135
Chloromethane	50	0	53	106	40-125
Cyclohexane	50	0	47	94	50-120
Dibromochloromethane	50	0	51	102	60-135
Dibromomethane	50	0	56	112	75-125
Dichlorodifluoromethane	50	0	43	86	30-155
Ethylbenzene	50	0	51	102	75-125
Ethylene DiBromide	50	0	49	98	80-120
Freon 113	50	0	56	112	70-130
Hexachlorobutadiene	50	0	68	136	50-140
Isopropylbenzene	50	0	57	114	75-125
Methyl Acetate	50	0	60	120	50-120
Methylcyclohexane	50	0	48	96	50-120

* Values Outside of QC Limits.

Spike recovery : 1 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108792

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108792
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	52	104	55-140
Naphthalene	50	0	62	124	55-140
Sec-Butylbenzene	50	0	59	118	70-125
Styrene	50	0	53	106	65-135
Tetrachloroethylene	50	0	59	118	45-150
Toluene	50	0	56	112	75-120
Trichloroethene	50	0	51	102	70-125
Trichlorofluoromethane	50	0	58	116	60-145
Vinyl Acetate	50	0	4.8	10 *	41-139
Vinyl Chloride	50	0	45	90	50-145
cis-1,2-Dichloroethene	50	0	54	108	70-125
cis-1,3-Dichloropropene	50	0	42	84	70-130
m,p-Xylene	100	0	110	110	75-130
n-Butylbenzene	50	0	59	118	70-135
n-Propylbenzene	50	0	56	112	70-130
o-Xylene	50	0	55	110	80-120
tert-Butylbenzene	50	0	62	124	70-130
tert-butyl methyl ether	50	0	57	114	65-125
trans-1,2-dichloroethene	50	0	54	108	60-140
trans-1,3-dichloropropene	50	0	47	94	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108803

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108803
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	59	118	80-130
1,1,1-Trichloroethane	50	0	60	120	65-130
1,1,2,2-Tetrachloroethane	50	0	50	100	65-130
1,1,2-Trichloroethane	50	0	63	126 *	75-125
1,1-Dichloroethane	50	0	58	116	70-135
1,1-Dichloroethene	50	0	52	104	70-130
1,1-Dichloropropene	50	0	52	104	75-130
1,2,3-Trichlorobenzene	50	0	60	120	55-140
1,2,3-Trichloropropane	50	0	52	104	75-125
1,2,4-Trichlorobenzene	50	0	59	118	65-135
1,2,4-Trimethylbenzene	50	0	56	112	75-130
1,2-Dibromo-3-Chloropropane	50	0	45	90	50-130
1,2-Dichlorobenzene	50	0	60	120	70-120
1,2-Dichloroethane	50	0	53	106	70-130
1,2-Dichloropropane	50	0	52	104	75-125
1,3,5-trimethylbenzene	50	0	55	110	75-130
1,3-Dichlorobenzene	50	0	62	124	75-125
1,3-Dichloropropane	50	0	51	102	75-125
1,4-Dichlorobenzene	50	0	62	124	75-125
2,2-Dichloropropane	50	0	56	112	70-135
2-Butanone	100	0	90	90	30-150
2-Chlorotoluene	50	0	58	116	75-125
2-Hexanone	100	0	87	87	55-130
4-Chlorotoluene	50	0	59	118	75-130
4-Isopropyltoluene	50	0	63	126	75-130

* Values Outside of QC Limits.

Spike recovery : 1 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108803

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108803
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	90	90	60-135
Acetone	100	0	87	87	40-140
Benzene	50	0	50	100	80-120
Bromobenzene	50	0	62	124	75-125
Bromochloromethane	50	0	67	134 *	65-130
Bromodichloromethane	50	0	62	124 *	75-120
Bromoform	50	0	57	114	70-130
Bromomethane	50	0	120	240 *	30-145
Carbon Disulfide	50	0	45	90	35-160
Carbon Tetrachloride	50	0	63	126	65-140
Chlorobenzene	50	0	55	110	80-120
Chloroethane	50	0	69	138 *	60-135
Chloroform	50	0	58	116	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	45	90	50-120
Dibromochloromethane	50	0	55	110	60-135
Dibromomethane	50	0	52	104	75-125
Dichlorodifluoromethane	50	0	41	82	30-155
Ethylbenzene	50	0	52	104	75-125
Ethylene DiBromide	50	0	52	104	80-120
Freon 113	50	0	56	112	70-130
Hexachlorobutadiene	50	0	63	126	50-140
Isopropylbenzene	50	0	55	110	75-125
Methyl Acetate	50	0	42	84	50-120
Methylcyclohexane	50	0	48	96	50-120

* Values Outside of QC Limits.

Spike recovery : 4 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108803

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108803
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	50	100	55-140
Naphthalene	50	0	54	108	55-140
Sec-Butylbenzene	50	0	57	114	70-125
Styrene	50	0	53	106	65-135
Tetrachloroethylene	50	0	61	122	45-150
Toluene	50	0	64	128 *	75-120
Trichloroethene	50	0	49	98	70-125
Trichlorofluoromethane	50	0	51	102	60-145
Vinyl Acetate	50	0	39	78	41-139
Vinyl Chloride	50	0	43	86	50-145
cis-1,2-Dichloroethene	50	0	51	102	70-125
cis-1,3-Dichloropropene	50	0	62	124	70-130
m,p-Xylene	100	0	110	110	75-130
n-Butylbenzene	50	0	55	110	70-135
n-Propylbenzene	50	0	53	106	70-130
o-Xylene	50	0	53	106	80-120
tert-Butylbenzene	50	0	59	118	70-130
tert-butyl methyl ether	50	0	59	118	65-125
trans-1,2-dichloroethene	50	0	55	110	60-140
trans-1,3-dichloropropene	50	0	60	120	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108804

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108804
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	49	98	80-130
1,1,1-Trichloroethane	50	0	56	112	65-130
1,1,2,2-Tetrachloroethane	50	0	45	90	65-130
1,1,2-Trichloroethane	50	0	45	90	75-125
1,1-Dichloroethane	50	0	53	106	70-135
1,1-Dichloroethene	50	0	51	102	70-130
1,1-Dichloropropene	50	0	49	98	75-130
1,2,3-Trichlorobenzene	50	0	56	112	55-140
1,2,3-Trichloropropane	50	0	47	94	75-125
1,2,4-Trichlorobenzene	50	0	56	112	65-135
1,2,4-Trimethylbenzene	50	0	49	98	75-130
1,2-Dibromo-3-Chloropropane	50	0	44	88	50-130
1,2-Dichlorobenzene	50	0	57	114	70-120
1,2-Dichloroethane	50	0	47	94	70-130
1,2-Dichloropropane	50	0	44	88	75-125
1,3,5-trimethylbenzene	50	0	50	100	75-130
1,3-Dichlorobenzene	50	0	56	112	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	56	112	75-125
2,2-Dichloropropane	50	0	56	112	70-135
2-Butanone	100	0	100	100	30-150
2-Chlorotoluene	50	0	56	112	75-125
2-Hexanone	100	0	75	75	55-130
4-Chlorotoluene	50	0	54	108	75-130
4-Isopropyltoluene	50	0	54	108	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108804

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108804
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	67	67	60-135
Acetone	100	0	110	110	40-140
Benzene	50	0	44	88	80-120
Bromobenzene	50	0	55	110	75-125
Bromochloromethane	50	0	58	116	65-130
Bromodichloromethane	50	0	46	92	75-120
Bromoform	50	0	47	94	70-130
Bromomethane	50	0	74	148 *	30-145
Carbon Disulfide	50	0	51	102	35-160
Carbon Tetrachloride	50	0	56	112	65-140
Chlorobenzene	50	0	51	102	80-120
Chloroethane	50	0	49	98	60-135
Chloroform	50	0	51	102	65-135
Chloromethane	50	0	69	138 *	40-125
Cyclohexane	50	0	46	92	50-120
Dibromochloromethane	50	0	50	100	60-135
Dibromomethane	50	0	49	98	75-125
Dichlorodifluoromethane	50	0	43	86	30-155
Ethylbenzene	50	0	47	94	75-125
Ethylene DiBromide	50	0	48	96	80-120
Freon 113	50	0	56	112	70-130
Hexachlorobutadiene	50	0	52	104	50-140
Isopropylbenzene	50	0	50	100	75-125
Methyl Acetate	50	0	69	138 *	50-120
Methylcyclohexane	50	0	47	94	50-120

* Values Outside of QC Limits.

Spike recovery : 3 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108804

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108804
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	51	102	55-140
Naphthalene	50	0	50	100	55-140
Sec-Butylbenzene	50	0	50	100	70-125
Styrene	50	0	49	98	65-135
Tetrachloroethylene	50	0	50	100	45-150
Toluene	50	0	53	106	75-120
Trichloroethene	50	0	44	88	70-125
Trichlorofluoromethane	50	0	65	130	60-145
Vinyl Acetate	50	0	160	320 *	41-139
Vinyl Chloride	50	0	47	94	50-145
cis-1,2-Dichloroethene	50	0	51	102	70-125
cis-1,3-Dichloropropene	50	0	40	80	70-130
m,p-Xylene	100	0	98	98	75-130
n-Butylbenzene	50	0	48	96	70-135
n-Propylbenzene	50	0	49	98	70-130
o-Xylene	50	0	50	100	80-120
tert-Butylbenzene	50	0	52	104	70-130
tert-butyl methyl ether	50	0	54	108	65-125
trans-1,2-dichloroethene	50	0	54	108	60-140
trans-1,3-dichloropropene	50	0	46	92	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Lab File ID :	A62476.D	SDG NO :	903071
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108792
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:26

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108792	BKS108792	A62474.D	10:46
OU1-16GW33-0309	903071-001-013-1/3	A62494.D	18:38
OU1-16MW28-0309	903071-002-016-1/2	A62496.D	19:19

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Lab File ID :	A62475.D	SDG NO :	903071
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108803
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:06

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108803	BKS108803	A62473.D	10:25
OU1-S3W3-0309	903071-005-007-1/3	A62493.D	18:17
OU1-TB05-0309	903071-006-010-1/3	A62495.D	18:58

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Lab File ID :	A62510.D	SDG NO :	903071
Date Analyzed	03/25/2009	Lab Sample ID :	BLK108804
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	12:40

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108804	BKS108804	A62508.D	11:47
OU1-16GW30-0309	903071-003-001-1/3	A62516.D	14:41
OU1-16GW31-0309	903071-004-004-1/3	A62518.D	15:34

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62468.D BFB Injection Date : 03/24/2009 BFB Injection Time : 07:55

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.9	
75	30.0 - 60.0% of mass 95	50.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	1.8	(1.9)1
174	50.0 - 120.0% of mass 95	96.3	
175	5.0 - 9.0% of mass 174	6.5	(6.7)1
176	95.0 - 101.0% of mass 174	91.7	(95.3)1
177	5.0 - 9.0% of mass 176	6.5	(7.1)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62472.D	03/24/2009	09:42
2	BKS108792	BKS108792	A62474.D	03/24/2009	10:46
3	BLK108792	BLK108792	A62476.D	03/24/2009	11:26
4	OU1-16GW33-0309	903071-001-013-1/3	A62494.D	03/24/2009	18:38
5	OU1-16MW28-0309	903071-002-016-1/2	A62496.D	03/24/2009	19:19

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62467.D BFB Injection Date : 03/24/2009 BFB Injection Time : 07:34

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.7	
75	30.0 - 60.0% of mass 95	51.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.3	
173	Less than 2.0% of mass 174	0.8	(.8)1
174	50.0 - 120.0% of mass 95	95.6	
175	5.0 - 9.0% of mass 174	7.6	(7.9)1
176	95.0 - 101.0% of mass 174	91.0	(95.1)1
177	5.0 - 9.0% of mass 176	5.8	(6.4)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62471.D	03/24/2009	09:22
2	BKS108803	BKS108803	A62473.D	03/24/2009	10:25
3	BLK108803	BLK108803	A62475.D	03/24/2009	11:06
4	OU1-S3W3-0309	903071-005-007-1/3	A62493.D	03/24/2009	18:17
5	OU1-TB05-0309	903071-006-010-1/3	A62495.D	03/24/2009	18:58

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62502.D BFB Injection Date : 03/25/2009 BFB Injection Time : 08:54

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.4	
75	30.0 - 60.0% of mass 95	52.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	1.6	(1.8)1
174	50.0 - 120.0% of mass 95	91.4	
175	5.0 - 9.0% of mass 174	6.9	(7.6)1
176	95.0 - 101.0% of mass 174	87.2	(95.4)1
177	5.0 - 9.0% of mass 176	6.1	(7.0)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62506.D	03/25/2009	10:56
2	BKS108804	BKS108804	A62508.D	03/25/2009	11:47
3	BLK108804	BLK108804	A62510.D	03/25/2009	12:40
4	OU1-16GW30-0309	903071-003-001-1/3	A62516.D	03/25/2009	14:41
5	OU1-16GW31-0309	903071-004-004-1/3	A62518.D	03/25/2009	15:34

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62472.D Date Analyzed: 03/24/2009 Time Analyzed: 09:42

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	320456	04.69	379848	07.78	366780	04.56
UPPER LIMIT	640912	05.19	759696	08.28	733560	05.06
LOWER LIMIT	160228	04.19	189924	07.28	183390	04.06
Client Sample						
BKS108792	242329	04.68	289118	07.78	283470	04.56
BLK108792	268879	04.69	307270	07.78	299283	04.56
OU1-16GW33-0309	246940	04.69	285601	07.78	270015	04.56
OU1-16MW28-0309	227933	04.69	268252	07.78	253002	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL

Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62471.D Date Analyzed: 03/24/2009 Time Analyzed: 09:22

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	415116	04.68	492903	07.78	468610	04.55
UPPER LIMIT	830232	05.18	985806	08.28	937220	05.05
LOWER LIMIT	207558	04.18	246452	07.28	234305	04.05
Client Sample						
BKS108803	424198	04.68	498687	07.78	477603	04.56
BLK108803	400974	04.68	448334	07.78	449301	04.55
OU1-S3W3-0309	343911	04.68	399921	07.78	385107	04.55
OU1-TB05-0309	344267	04.68	391325	07.78	369663	04.55

14DFBZ = 1,4-Difluorobenzen

CLBZD5 = Chlorobenzene-d

FBZ = Fluorobenzen

AREA UPPER LIMIT = +100% of internal standard ar

AREA LOWER LIMIT = -50% of internal standard are

RT UPPER LIMIT = +.50 minutes of internal standard RT

RT LOWER LIMIT = -.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asteris

* Values outside of contract required QC limits

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62506.D Date Analyzed: 03/25/2009 Time Analyzed: 10:56

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	359942	04.69	419275	07.78	402043	04.56
UPPER LIMIT	719884	05.19	838550	08.28	804086	05.06
LOWER LIMIT	179971	04.19	209638	07.28	201022	04.06
Client Sample						
BKS108804	325733	04.69	374869	07.78	370357	04.56
BLK108804	282248	04.69	320524	07.78	320125	04.56
OU1-16GW30-0309	262367	04.69	301514	07.78	297620	04.56
OU1-16GW31-0309	266486	04.69	291585	07.78	291207	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzen

AREA UPPER LIMIT = +100% of internal standard ar
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : General Physics Corp.

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903020

Lab File ID: A62205.D BFB Injection Date : 03/10/2009 BFB Injection Time : 07:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.6	(.8)1
174	50.0 - 120.0% of mass 95	79.6	
175	5.0 - 9.0% of mass 174	5.9	(7.4)1
176	95.0 - 101.0% of mass 174	77.5	(97.3)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL01	CAL01	A62207.D	03/10/2009	08:49
2	CAL05	CAL05	A62209.D	03/10/2009	09:30
3	CAL20	CAL20	A62211.D	03/10/2009	11:03
4	CAL50	CAL50	A62213.D	03/10/2009	11:44
5	CAL100	CAL100	A62215.D	03/10/2009	12:49
6	CAL200	CAL200	A62219.D	03/10/2009	14:22
7	BLK108667	BLK108667	A62221.D	03/10/2009	15:35
8	BKS108667	BKS108667	A62223.D	03/10/2009	16:25
9	TB-030409	903020-001-001-1/2	A62225.D	03/10/2009	17:06
10	EFFg-030409	903020-004-003-1/3	A62227.D	03/10/2009	17:46
11	ACU2-030409	903020-005-006-1/3	A62229.D	03/10/2009	18:27
12	ACU1-030409	903020-006-009-1/3	A62231.D	03/10/2009	19:08

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 08:06:42 2009
Response Via : Initial Calibration

Calibration Files
1 =A62207.D 5 =A62209.D 20 =A62211.D 50 =A62213.D 100 =A62215.D
200 =A62219.D

		Compound	1	5	20	50	100	200	Avg	%R SD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluo...	0.067	0.085	0.103	0.098		0.090	0.089	15.40
3)		Chloromethane	0.188	0.181	0.173	0.145	0.159	0.199	0.174	11.27
4)		Vinyl chloride	0.220	0.190	0.192	0.211	0.214	0.214	0.207	6.19
5)		Bromomethane	0.218	0.069	0.099	0.078	0.114		0.115	~~51.60~~ r^2=0.9[illegible]
6)		Chloroethane		0.144	0.142	0.142	0.141	0.157	0.145	4.69
7)		Trichlorofluor...	0.154	0.245	0.282	0.290	0.307		0.256	~~23.94~~ r^2=0.9[illegible]
8)		Ethyl Ether	0.163	0.157	0.165	0.189	0.188	0.206	0.178	10.84
9)		Freon 113	0.153	0.135	0.174	0.165		0.165	0.158	9.58
10)		Acrolein		0.037	0.031	0.036	0.035	0.040	0.036	9.22
11)		Tert-Butyl alc...	0.016	0.021	0.018	0.026	0.021		0.020	18.36
12)		1,1-Dichloroet...	0.177	0.162	0.167	0.188	0.193	0.202	0.182	8.55
13)		Iodomethane	0.457	0.111	0.200	0.091	0.247	0.161	0.211	63.20
14)		Acetonitrile	0.079	0.075	0.093	0.124	0.139	0.138	0.108	~~26.99~~ r^2=0.9[illegible]
15)		Methylene chlo...	0.375	0.222	0.213	0.224	0.235	0.243	0.252	~~24.26~~ r^2=0.9[illegible]
16)		Trans-1,2-dich...	0.209	0.186	0.197	0.221	0.230		0.209	8.57
17)		Isopropyl ether	0.794	0.717	0.779	0.874	0.894		0.812	8.93
18)		1,1-Dichloroet...	0.325	0.334	0.368	0.411	0.431		0.374	12.44
19)		Acetone	0.151	0.086	0.070	0.091	0.084	0.086	0.095	~~30.23~~ r^2=0.9[illegible]
20)		Methyl Acetate	0.225	0.217	0.185	0.256		0.048	0.186	~~43.60~~ r^2=0.9[illegible]
21)		MTBE	0.473	0.510	0.527	0.610	0.604		0.545	11.02
22)		Carbon disulfide	1.024	0.568	0.589	0.610	0.643	0.638	0.679	~~25.30~~ r^2=0.9[illegible]
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile		0.059	0.058	0.067	0.062	0.071	0.063	8.81
25)		Chloroprene	0.352	0.318	0.337	0.354	0.398	0.383	0.357	8.23
26)	T	n-Heptane	0.229	0.156	0.188	0.173	0.184	0.166	0.183	14.14
27)		2,2-Dichloropr...	0.284	0.268		0.334	0.340	0.338	0.313	10.86
28)		Cis-1,2-dichlo...	0.280	0.214		0.253	0.263	0.256	0.253	9.47
29)		1,2-dichloroet...	0.366		0.223	0.242	0.248	0.260	0.268	21.04
30)		Propionitrile	0.028	0.029	0.028	0.035	0.031	0.036	0.031	11.14
31)		Bromochloromet...	0.088	0.091	0.107	0.119	0.122	0.129	0.109	15.51
32)		Tetrahydrofuran	0.047	0.049	0.049	0.055	0.049	0.059	0.051	9.52
33)		Chloroform	0.515	0.347	0.353	0.399	0.446	0.498	0.426	16.82
34)		Cyclohexane	0.560	0.302	0.371	0.358	0.395	0.363	0.392	~~22.17~~ r^2=0.9[illegible]
35)		1,1,1-Trichlor...	0.289	0.274	0.307	0.333	0.343	0.363	0.318	10.68
36)		Carbon tetrach...	0.218	0.240	0.265	0.290	0.310	0.313	0.272	14.18
37)		Methacrylonitrile	0.141		0.144	0.175	0.176	0.213	0.170	17.12
38)		Methylcyclohexane	0.360	0.292	0.354	0.333	0.373	0.318	0.338	8.82
39)		Isobutyl Alcohol	0.011	0.014	0.017	0.016		0.015	0.015	15.42
40)	SS	1,2-Dichloroet...	0.258	0.262	0.263	0.265	0.265	0.282	0.266	3.13
41)		1,4-Difluorobenzene	----------ISTD----------							
42)		2-Butanone	0.150	0.152	0.146	0.185	0.166	0.178	0.163	9.84

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

43)		1,1-Dichloropr...	0.270	0.305	0.331	0.370	0.377	0.381	0.339	13.34
44)		Vinyl Acetate	0.369	0.357		0.401	0.394	0.386	0.381	4.81
45)		Benzene	0.924	0.932	1.027	1.118	1.156	1.192	1.058	10.86
46)		1,2-Dichloroet...	0.277	0.295	0.324	0.359	0.360	0.376	0.332	12.02
47)		Trichloroethene	0.269	0.243	0.263	0.278	0.289	0.289	0.272	6.46
48)		1,2-Dichloropr...	0.226	0.230	0.263	0.298	0.305	0.305	0.271	13.65
49)		Methyl methacr...	0.215	0.205	0.171	0.201	0.185	0.202	0.196	8.01
50)		Dibromomethane	0.171	0.151	0.147	0.176	0.172	0.184	0.167	8.78
51)		Bromodichlorom...	0.338	0.315	0.334	0.376	0.376	0.385	0.354	8.07
52)		2-Chloroethylv...	0.027	0.143	0.149	0.165	0.057	0.106	0.108	51.45
53)		Cis-1,3-dichlo...	0.340	0.361		0.469	0.471	0.491	0.427	16.46
54)	SS	Toluene-d8	1.125	1.133	1.141	1.158	1.177	1.218	1.159	2.99
55)		Toluene	0.589	0.599	0.664	0.740	0.763	0.807	0.694	13.02
56)		Trans-1,3-dich...	0.273	0.355		0.433	0.417	0.455	0.387	18.95
57)		Ethyl methacry...	0.347	0.304	0.324	0.365	0.358	0.385	0.347	8.47
58)		1,1,2-Trichlor...	0.183	0.186		0.220	0.217	0.234	0.208	10.71
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)		4-Methyl-2-pen...	0.272	0.284	0.284	0.321	0.289	0.300	0.292	5.85
61)		2-Hexanone	0.175	0.219	0.196	0.238	0.214	0.220	0.210	10.29
62)		Tetrachloroethene	0.228	0.256	0.285	0.305	0.324	0.332	0.288	13.99
63)		1,3-Dichloropr...	0.361	0.399	0.395	0.451	0.441	0.448	0.416	8.74
64)		Dibromochlorom...	0.245	0.291	0.291	0.322	0.324	0.334	0.301	10.93
65)		1,2-Dibromoethane	0.246	0.242	0.248	0.270	0.266	0.271	0.257	5.13
66)		1-Chlorohexane	0.470	0.400	0.409	0.437	0.441	0.437	0.432	5.79
67)		Chlorobenzene	0.748	0.753	0.821	0.906	0.935	0.925	0.848	10.10
68)		1,1,1,2-Tetrac...	0.248	0.259	0.292	0.328	0.342	0.354	0.304	14.65
69)		Ethylbenzene	1.318	1.300	1.394	1.507	1.582	1.607	1.451	9.15
70)		m,p-Xylene	0.510	0.513	0.560	0.618	0.648		0.570	10.86
71)		o-Xylene	0.551	0.505	0.566	0.601	0.624	0.620	0.578	7.95
72)		Xylene (Total)	0.524	0.511	0.564	0.613	0.641	0.662	0.586	10.68
73)		Styrene	0.827	0.857	0.930	1.024	1.062	1.060	0.960	10.80
74)		Bromoform	0.149	0.175	0.176	0.212	0.200	0.209	0.187	13.15
75)		Isopropylbenzene	1.052	1.108	1.196	1.299	1.367	1.346	1.228	10.60
76)	SS	4-Bromofluorob...	0.468	0.466	0.474	0.477	0.477	0.465	0.471	1.16
77)		Bromobenzene	0.300	0.296	0.326	0.356	0.370	0.370	0.336	10.07
78)		1,1,2,2-Tetrac...	0.317	0.314	0.308	0.356	0.339	0.347	0.330	6.00
79)		1,2,3-Trichlor...	0.091	0.103	0.091	0.105	0.098	0.101	0.098	6.04
80)		n-Propylbenzene	1.522	1.538	1.655	1.792	1.853	1.840	1.700	8.79
81)		Trans-1,4-dich...	0.066	0.099	0.064	0.109	0.074	0.088	0.083	~~21.93~~ r²=0.9987
82)		2-Chlorotoluene	0.338	0.323	0.352	0.384	0.388	0.378	0.361	7.43
83)		4-Chlorotoluene	0.354	0.335	0.356	0.391	0.407	0.403	0.374	7.96
84)		1,3,5-Trimethy...	1.021	1.048	1.163	1.281	1.369	1.359	1.207	12.65
85)		Tert-butylbenzene	0.855	0.919	1.011	1.122	1.196	1.189	1.049	13.66
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.051	1.091	1.184	1.318	1.418	1.460	1.254	13.63
88)		Sec-Butylbenzene	1.363	1.379	1.554	1.726	1.836	1.785	1.607	12.83
89)		1,3-Dichlorobe...	0.581	0.583	0.663	0.740	0.804	0.864	0.706	16.56
90)		4-Isopropyltol...	1.162	1.185	1.338	1.507	1.641		1.367	15.11
91)		1,4-Dichlorobe...	0.581	0.624	0.679	0.749	0.800	0.815	0.708	13.52
92)	SS	1,2-Dichlorobe...	0.439	0.440	0.457	0.465	0.487	0.486	0.462	4.56
93)		1,2-Dichlorobe...	0.614	0.556		0.688	0.756	0.756	0.674	13.10
94)		n-Butylbenzene	1.300	1.191	1.253	1.396	1.500	1.454	1.349	8.94
95)		1,2-Dibromo-3-...	0.051	0.056	0.051	0.062	0.057	0.063	0.057	9.21
96)		1,2,4-Trichlor...	0.405	0.335	0.363	0.417	0.452	0.481	0.409	13.24

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

97)	Hexachlorobuta...	0.192	0.145	0.170	0.197	0.215	0.224	0.190	15.45
98)	Naphthalene	0.824	0.898	0.877	1.102	1.033	1.113	0.975	12.73
99)	1,2,3-Trichlor...	0.323	0.289	0.308	0.362	0.371	0.400	0.342	12.35

(#) = Out of Range

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: GPL LABORATORIES, LLC. Contract: _____

Lab Code: GPLL Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: A62206.D BFB Injection Date: 03/10/09

Instrument ID: HP#A BFB Injection Time: 07:55

GC Column: RTX_624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	51.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.1)1
174	50.0 - 120.0% of mass 95	78.5
175	4.0 - 9.0% of mass 174	5.9 (7.5)1
176	93.0 - 101.0% of mass 174	79.2 (100.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL01	CAL01	A62208.D	03/10/09	09:10
02	CAL05	CAL05	A62210.D	03/10/09	09:51
03	CAL20	CAL20	A62212.D	03/10/09	11:24
04	CAL50	CAL50	A62214.D	03/10/09	12:04
05	CAL100	CAL100	A62216.D	03/10/09	13:09
06	CAL200	CAL200	A62220.D	03/10/09	14:43
07	ICV50	BKS/ICV50	A62242.D	03/11/09	12:15

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009
Response Via : Initial Calibration

Calibration Files
1 =A62208.D 5 =A62210.D 20 =A62212.D 50 =A62214.D 100 =A62216.D
200 =A62220.D

		Compound	1	5	20	50	100	200	Avg	SD	%R
1)	I	Fluorobenzene	ISTD								
2)		Dichlorodifluo...	0.120	0.111	0.119	0.086	0.118	0.123	0.113		12.08
3)		Chloromethane	0.130	0.128	0.142	0.106	0.203		0.142		25.94
4)		Vinyl chloride	0.134	0.140	0.199	0.167	0.224	0.235	0.183		~~23.46~~
5)		Bromomethane	0.070	0.054	0.062	0.055	0.080		0.064		17.43
6)		Chloroethane	0.167	0.122	0.140	0.117	0.143	0.163	0.142		14.33
7)		Trichlorofluor...	0.169	0.246	0.270	0.217	0.296		0.239		20.54
8)		Ethyl Ether	0.184	0.185	0.175	0.149	0.191	0.230	0.186		14.22
9)		Freon 113	0.186	0.161	0.176	0.130	0.186	0.179	0.170		12.63
10)		Acrolein		0.055	0.035	0.030	0.038	0.058	0.043		~~28.85~~
11)		Tert-Butyl alc...	0.026	0.015	0.013	0.012	0.015	0.037	0.020		~~50.87~~
12)		1,1-Dichloroet...	0.203	0.187	0.176	0.140	0.189	0.208	0.184		13.36
13)		Iodomethane	0.081	0.109	0.177	0.181	0.257	0.182	0.164		37.82
14)		Acetonitrile	0.068	0.068	0.088	0.088	0.133	0.131	0.096		~~30.66~~
15)		Methylene chlo...	0.408	0.270	0.218	0.182	0.225	0.236	0.257		~~30.95~~
16)		Trans-1,2-dich...	0.232	0.181	0.191	0.166	0.217	0.212	0.200		12.32
17)		Isopropyl ether	0.850		0.767	0.665	0.845	0.895	0.805		11.26
18)		1,1-Dichloroet...	0.342	0.335	0.343	0.313	0.402	0.401	0.356		10.34
19)		Acetone	0.172	0.075	0.062	0.056	0.068	0.117	0.092		~~48.84~~
20)		Methyl Acetate	0.271	0.158	0.133	0.151	0.158	0.384	0.209		~~47.13~~
21)		MTBE	0.578	0.576	0.560	0.483	0.627	0.649	0.579		10.01
22)		Carbon disulfide	1.523	0.763	0.587	0.470	0.611	0.629	0.764		~~50.20~~
23)		Allyl Chloride							0.000		-1.00
24)		Acrylonitrile	0.103	0.070	0.061	0.054	0.067	0.097	0.075		~~26.82~~
25)		Chloroprene	0.379	0.349		0.270	0.372	0.333	0.341		12.75
26)	T	n-Heptane	0.233	0.164	0.181	0.154	0.163	0.148	0.174		17.86
27)		2,2-Dichloropr...	0.302	0.253	0.292	0.265	0.324	0.309	0.291		9.30
28)		Cis-1,2-dichlo...	0.289	0.221	0.221	0.207	0.248	0.241	0.238		12.28
29)		1,2-dichloroet...		0.211	0.214	0.190	0.235	0.236	0.217		8.87
30)		Propionitrile	0.043	0.032	0.027	0.027	0.030		0.032		20.48
31)		Bromochloromet...	0.120		0.106	0.105	0.120	0.128	0.115		8.57
32)		Tetrahydrofuran	0.064	0.054	0.051	0.050	0.056	0.082	0.059		20.48
33)		Chloroform	0.488	0.356	0.351	0.347	0.418	0.460	0.403		15.18
34)		Cyclohexane	0.624	0.344	0.365	0.320	0.372	0.360	0.398		~~28.35~~
35)		1,1,1-Trichlor...	0.302	0.283	0.291	0.299	0.329	0.339	0.307		7.22
36)		Carbon tetrach...	0.150	0.170	0.251	0.261	0.291	0.270	0.232		~~24.84~~
37)		Methylcyclohexane	0.373	0.314	0.345	0.327	0.363	0.328	0.342		6.72
38)		Isobutyl Alcohol	0.021	0.014	0.017	0.014	0.015	0.014	0.016		16.89
39)	SS	1,2-Dichloroet...	0.274	0.278	0.271	0.267	0.271	0.296	0.276		3.84
40)		1,4-Difluorobenzene	ISTD								
41)		2-Butanone	0.276	0.183	0.150	0.139	0.165	0.234	0.191		~~27.74~~
42)		1,1-Dichloropr...	0.318	0.297	0.314	0.325	0.352	0.348	0.326		6.44

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

43)		Vinyl Acetate	0.355	0.307		0.299	0.425	0.399	0.357	15.52
44)		Benzene	1.162	1.016	0.997	1.042	1.084	1.166	1.078	6.77
45)		1,2-Dichloroet...	0.321	0.321	0.325	0.338	0.359	0.378	0.340	6.86
46)		Trichloroethene	0.302	0.290	0.250	0.265	0.269	0.282	0.276	6.77
47)		1,2-Dichloropr...	0.271	0.259	0.255	0.291	0.292	0.314	0.280	8.00
48)		Methyl methacr...	0.306	0.199	0.189	0.198	0.197	0.239	0.221	~~20.32~~ r2 0.99
49)		Dibromomethane	0.151	0.152	0.164	0.176	0.180	0.198	0.170	10.64
50)		Bromodichlorom...	0.384	0.294	0.339	0.371	0.375	0.400	0.361	10.59
51)		2-Chloroethylv...	0.166	0.177	0.173	0.188	0.198	0.226	0.188	11.62
52)		Cis-1,3-dichlo...	0.282	0.339		0.457	0.463	0.499	0.408	~~22.73~~ r2 0.99
53)	SS	Toluene-d8	1.145	1.137	1.147	0.834	1.137	1.258	1.110	12.88
54)		Toluene	0.558	0.576	0.613	0.509	0.688		0.589	11.38
55)		Trans-1,3-dich...	0.300		0.366	0.310	0.411	0.476	0.372	19.64
56)		Ethyl methacry...	0.350	0.351	0.329	0.276		0.437	0.349	16.62
57)		1,1,2-Trichlor...	0.267	0.199	0.198	0.162	0.215		0.208	18.35
58)	I	Chlorobenzene-d5	----------ISTD----------							
59)		4-Methyl-2-pen...	0.448	0.306	0.309	0.325	0.335	0.376	0.350	15.51
60)		2-Hexanone	0.310	0.216	0.205	0.233	0.226	0.248	0.240	15.66
61)		Tetrachloroethene	0.213	0.252	0.268	0.281	0.295	0.277	0.264	11.02
62)		1,3-Dichloropr...	0.377	0.381	0.401	0.426	0.425	0.421	0.405	5.47
63)		Dibromochlorom...	0.220	0.243	0.272	0.303	0.315	0.315	0.278	14.36
64)		1,2-Dibromoethane	0.213	0.229	0.251	0.272	0.268	0.275	0.251	10.06
65)		1-Chlorohexane	0.529	0.403	0.371	0.396	0.400	0.392	0.415	13.76
66)		Chlorobenzene	0.727	0.736	0.798	0.865	0.892	0.909	0.821	9.61
67)		1,1,1,2-Tetrac...	0.206		0.283	0.330	0.345	0.362	0.305	~~20.59~~ r2 0.99
68)		Ethylbenzene	1.250		1.301	1.441	1.467	1.554	1.403	8.89
69)		m,p-Xylene	0.497		0.533	0.593	0.610	0.662	0.579	11.23
70)		o-Xylene	0.464	0.535	0.537	0.607	0.623	0.660	0.571	12.59
71)		Xylene (Total)	0.486	0.528	0.536	0.601	0.614	0.670	0.573	11.81
72)		Styrene	0.844	0.875	0.906	1.015	1.024	1.094	0.959	10.27
73)		Bromoform	0.116	0.146	0.183	0.211	0.219	0.245	0.187	~~25.82~~ r2 0.99
74)		Isopropylbenzene	1.112	1.127	1.193	1.321	1.373	1.484	1.268	11.70
75)	SS	4-Bromofluorob...	0.493	0.497	0.482	0.500	0.491	0.514	0.496	2.12
76)		Bromobenzene	0.331		0.329	0.375	0.368	0.409	0.362	9.18
77)		1,1,2,2-Tetrac...	0.409	0.350	0.353	0.390	0.391	0.432	0.387	8.21
78)		1,2,3-Trichlor...	0.110	0.118	0.106	0.114	0.114	0.132	0.116	7.90
79)		n-Propylbenzene	1.491	1.574	1.624	1.835	1.809	1.975	1.718	10.71
80)		Trans-1,4-dich...	0.090	0.091	0.100	0.116	0.119	0.143	0.110	18.56
81)		2-Chlorotoluene	0.318	0.344	0.342	0.399	0.389	0.419	0.368	10.71
82)		4-Chlorotoluene	0.338		0.369	0.414	0.404	0.433	0.392	9.73
83)		1,3,5-Trimethy...	1.052		1.205	1.397	1.408	1.590	1.331	15.55
84)		Tert-butylbenzene	0.951		1.060	1.235	1.263	1.433	1.188	15.76
85)		Pentachloroethane							0.000	-1.00
86)		1,2,4-Trimethy...	1.269		1.244	1.445	1.449	1.671	1.416	12.12
87)		Sec-Butylbenzene	1.559		1.670	1.913	1.912	2.147	1.840	12.53
88)		1,3-Dichlorobe...	0.718		0.695	0.816	0.814	0.982	0.805	14.06
89)		4-Isopropyltol...	1.343	1.326	1.420	1.664	1.697	2.024	1.579	17.07
90)		1,4-Dichlorobe...	0.716		0.720	0.833	0.822	0.928	0.804	11.04
91)	SS	1,2-Dichlorobe...	0.527	0.540	0.530	0.544	0.532	0.576	0.541	3.33
92)		1,2-Dichlorobe...	0.720		0.691	0.789	0.783	0.884	0.773	9.59
93)		n-Butylbenzene	1.464	1.337	1.352	1.543	1.549	1.732	1.496	9.82
94)		1,2-Dibromo-3-...	0.065	0.072	0.069	0.079	0.078	0.096	0.077	14.47
95)		1,2,4-Trichlor...	0.544		0.445	0.520	0.509	0.627	0.529	12.45
96)		Hexachlorobuta...	0.281		0.192	0.208	0.221	0.274	0.235	17.09

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

97)	Naphthalene	1.475	1.372	1.280	1.433	1.414	1.706	1.447	9.91
98)	1,2,3-Trichlor...	0.492		0.401	0.469	0.454	0.549	0.473	11.47

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	82	0.00
2		Dichlorodifluoromethane	0.113	0.112	0.9	107	0.01
3		Chloromethane	0.142	0.199	-40.1#	154#	0.00
4		Vinyl chloride	0.183	0.209	-14.2	102	0.00
5		Bromomethane	0.064	0.102	-59.4#	153#	0.00
6		Chloroethane	0.142	0.143	-0.7	100	0.00
7		Trichlorofluoromethane	0.239	0.324	-35.6#	122	0.01
8		Ethyl Ether	0.186	0.163	12.4	90	0.01
9		Freon 113	0.170	0.184	-8.2	116	0.00
10		Acrolein	0.043	0.030	30.2#	81	0.01
11		Tert-Butyl alcohol	0.020	0.014	30.0#	99	0.00
12		1,1-Dichloroethene	0.184	0.164	10.9	96	0.00
13		Iodomethane	0.164	0.325	-98.2#	147	0.00
14		Acetonitrile	0.096	0.134	-39.6#	124	0.00
15		Methylene chloride	0.257	0.198	23.0	89	0.00
16		Trans-1,2-dichloroethene	0.200	0.186	7.0	92	0.00
17		Isopropyl ether	0.805	0.726	9.8	89	0.01
18		1,1-Dichloroethane	0.356	0.381	-7.0	100	0.00
19		Acetone	0.092	0.062	32.6#	90	0.01
20		Methyl Acetate	0.209	0.153	26.8#	83	0.00
21		MTBE	0.579	0.608	-5.0	103	0.00
22		Carbon disulfide	0.764	0.395	48.3#	69	0.01
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.063	16.0	97	0.00
25		Chloroprene	0.341	0.290	15.0	88	0.00
26	T	n-Heptane	0.174	0.007	96.0#	4#	0.12
27		2,2-Dichloropropane	0.291	0.302	-3.8	93	0.00
28		Cis-1,2-dichloroethene	0.238	0.217	8.8	86	0.00
29		1,2-dichloroethene(total)	0.217	0.204	6.0	88	-0.82#
30		Propionitrile	0.032	0.024	25.0	75	0.00
31		Bromochloromethane	0.115	0.132	-14.8	103	0.00
32		Tetrahydrofuran	0.059	0.049	16.9	79	0.00
33		Chloroform	0.403	0.410	-1.7	97	0.00
34		Cyclohexane	0.398	0.300	24.6	77	0.00
35		1,1,1-Trichloroethane	0.307	0.333	-8.5	91	0.00
36		Carbon tetrachloride	0.232	0.304	-31.0#	95	0.00
37		Methylcyclohexane	0.342	0.295	13.7	74	0.00
38		Isobutyl Alcohol	0.016	0.008	50.0#	44#	-0.18

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.289	-4.7	89	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
41		2-Butanone	0.191	0.130	31.9#	83	0.00
42		1,1-Dichloropropene	0.326	0.288	11.7	79	0.00
43		Vinyl Acetate	0.357	0.258	27.7#	77	0.00
44		Benzene	1.078	0.856	20.6	73	0.00
45		1,2-Dichloroethane	0.340	0.307	9.7	81	0.00
46		Trichloroethene	0.276	0.230	16.7	77	0.00
47		1,2-Dichloropropane	0.280	0.224	20.0	68	0.00
48		Methyl methacrylate	0.221	0.152	31.2#	68	0.00
49		Dibromomethane	0.170	0.154	9.4	78	0.00
50		Bromodichloromethane	0.361	0.303	16.1	73	0.00
51		2-Chloroethylvinyl ether	0.188	0.134	28.7#	63	0.00
52		Cis-1,3-dichloropropene	0.408	0.355	13.0	69	0.01
53	SS	Toluene-d8	1.110	1.231	-10.9	131	0.00
54		Toluene	0.589	0.676	-14.8	118	0.00
55		Trans-1,3-dichloropropene	0.372	0.378	-1.6	109	0.00
56		Ethyl methacrylate	0.349	0.340	2.6	109	0.00
57		1,1,2-Trichloroethane	0.208	0.208	0.0	114	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	141	0.00
59		4-Methyl-2-pentanone	0.350	0.220	37.1#	95	0.00
60		2-Hexanone	0.240	0.170	29.2#	102	0.00
61		Tetrachloroethene	0.264	0.285	-8.0	143	0.00
62		1,3-Dichloropropane	0.405	0.356	12.1	117	0.00
63		Dibromochloromethane	0.278	0.277	0.4	129	0.02
64		1,2-Dibromoethane	0.251	0.227	9.6	117	0.00
65		1-Chlorohexane	0.415	0.325	21.7	115	0.00
66		Chlorobenzene	0.821	0.782	4.8	127	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.317	-3.9	135	0.00
68		Ethylbenzene	1.403	1.217	13.3	119	0.00
69		m,p-Xylene	0.579	0.523	9.7	124	0.00
70		o-Xylene	0.571	0.526	7.9	122	0.00
71		Xylene (Total)	0.573	0.526	8.2	123	0.00
72		Styrene	0.959	0.874	8.9	121	0.00
73		Bromoform	0.187	0.188	-0.5	125	0.00
74		Isopropylbenzene	1.268	1.211	4.5	129	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.480	3.2	135	0.00
76		Bromobenzene	0.362	0.378	-4.4	141	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.321	17.1	116	0.00
78		1,2,3-Trichloropropane	0.116	0.097	16.4	120	0.00
79		n-Propylbenzene	1.718	1.577	8.2	121	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.097	11.8	118	0.00
81		2-Chlorotoluene	0.368	0.386	-4.9	136	0.00
82		4-Chlorotoluene	0.392	0.396	-1.0	134	0.00
83		1,3,5-Trimethylbenzene	1.331	1.259	5.4	127	0.00
84		Tert-butylbenzene	1.188	1.194	-0.5	136	0.00
85		Pentachloroethane	0.000	0.000	0.0	138	0.00
86		1,2,4-Trimethylbenzene	1.416	1.300	8.2	126	0.00
87		Sec-Butylbenzene	1.840	1.746	5.1	128	0.00
88		1,3-Dichlorobenzene	0.805	0.851	-5.7	147	0.00
89		4-Isopropyltoluene	1.579	1.626	-3.0	137	0.00
90		1,4-Dichlorobenzene	0.804	0.844	-5.0	142	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.630	-16.5	163#	0.00
92		1,2-Dichlorobenzene	0.773	0.818	-5.8	146	0.00
93		n-Butylbenzene	1.496	1.375	8.1	125	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.059	23.4	104	0.00
95		1,2,4-Trichlorobenzene	0.529	0.547	-3.4	148	0.00
96		Hexachlorobutadiene	0.235	0.237	-0.9	160#	0.00
97		Naphthalene	1.447	1.338	7.5	131	0.00
98		1,2,3-Trichlorobenzene	0.473	0.474	-0.2	142	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 17:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	75	0.00
2		Dichlorodifluoromethane	0.113	0.100	11.5	86	0.01
3		Chloromethane	0.142	0.166	-16.9	117	0.01
4		Vinyl chloride	0.183	0.194	-6.0	87	0.01
5		Bromomethane	0.064	0.076	-18.7	105	0.00
6		Chloroethane	0.142	0.133	6.3	85	0.00
7		Trichlorofluoromethane	0.239	0.308	-28.9#	106	0.01
8		Ethyl Ether	0.186	0.171	8.1	86	0.00
9		Freon 113	0.170	0.196	-15.3	113	0.00
10		Acrolein	0.043	0.030	30.2#	73	0.00
11		Tert-Butyl alcohol	0.020	0.013	35.0#	84	0.00
12		1,1-Dichloroethene	0.184	0.181	1.6	96	0.00
13		Iodomethane	0.164	0.349	-112.8#	144	0.01
14		Acetonitrile	0.096	0.146	-52.1#	124	0.00
15		Methylene chloride	0.257	0.212	17.5	87	0.00
16		Trans-1,2-dichloroethene	0.200	0.204	-2.0	91	0.00
17		Isopropyl ether	0.805	0.766	4.8	86	0.01
18		1,1-Dichloroethane	0.356	0.386	-8.4	92	0.00
19		Acetone	0.092	0.059	35.9#	78	0.01
20		Methyl Acetate	0.209	0.135	35.4#	67	0.00
21		MTBE	0.579	0.598	-3.3	92	0.00
22		Carbon disulfide	0.764	0.517	32.3#	82	0.01
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.063	16.0	88	0.00
25		Chloroprene	0.341	0.321	5.9	89	0.01
26	T	n-Heptane	0.174	0.008	95.4#	4#	0.12
27		2,2-Dichloropropane	0.291	0.305	-4.8	86	0.00
28		Cis-1,2-dichloroethene	0.238	0.225	5.5	81	0.00
29		1,2-dichloroethene(total)	0.217	0.217	0.0	85	0.00
30		Propionitrile	0.032	0.025	21.9	70	0.00
31		Bromochloromethane	0.115	0.134	-16.5	95	0.00
32		Tetrahydrofuran	0.059	0.046	22.0	68	0.00
33		Chloroform	0.403	0.414	-2.7	89	0.00
34		Cyclohexane	0.398	0.347	12.8	81	0.00
35		1,1,1-Trichloroethane	0.307	0.341	-11.1	85	0.00
36		Carbon tetrachloride	0.232	0.312	-34.5#	89	0.00
37		Methylcyclohexane	0.342	0.353	-3.2	81	0.00
38		Isobutyl Alcohol	0.016	0.007	56.3#	36#	-0.18

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 17:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.290	-5.1	81	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
41		2-Butanone	0.191	0.133	30.4#	76	0.00
42		1,1-Dichloropropene	0.326	0.316	3.1	77	0.00
43		Vinyl Acetate	0.357	0.282	21.0	75	0.00
44		Benzene	1.078	0.955	11.4	73	0.00
45		1,2-Dichloroethane	0.340	0.314	7.6	74	0.00
46		Trichloroethene	0.276	0.248	10.1	74	0.00
47		1,2-Dichloropropane	0.280	0.249	11.1	68	0.00
48		Methyl methacrylate	0.221	0.167	24.4	67	0.00
49		Dibromomethane	0.170	0.170	0.0	77	0.00
50		Bromodichloromethane	0.361	0.341	5.5	73	0.00
51		2-Chloroethylvinyl ether	0.188	0.149	20.7	63	0.00
52		Cis-1,3-dichloropropene	0.408	0.388	4.9	67	0.01
53	SS	Toluene-d8	1.110	1.084	2.3	103	0.00
54		Toluene	0.589	0.627	-6.5	98	0.00
55		Trans-1,3-dichloropropene	0.372	0.338	9.1	86	0.00
56		Ethyl methacrylate	0.349	0.299	14.3	86	0.00
57		1,1,2-Trichloroethane	0.208	0.197	5.3	96	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	127	0.00
59		4-Methyl-2-pentanone	0.350	0.223	36.3#	87	0.00
60		2-Hexanone	0.240	0.170	29.2#	93	0.00
61		Tetrachloroethene	0.264	0.287	-8.7	130	0.00
62		1,3-Dichloropropane	0.405	0.374	7.7	112	0.00
63		Dibromochloromethane	0.278	0.276	0.7	116	0.01
64		1,2-Dibromoethane	0.251	0.229	8.8	107	0.00
65		1-Chlorohexane	0.415	0.356	14.2	114	0.00
66		Chlorobenzene	0.821	0.836	-1.8	123	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.334	-9.5	129	0.00
68		Ethylbenzene	1.403	1.321	5.8	117	0.00
69		m,p-Xylene	0.579	0.569	1.7	122	0.00
70		o-Xylene	0.571	0.567	0.7	119	0.00
71		Xylene (Total)	0.573	0.571	0.3	121	0.00
72		Styrene	0.959	0.958	0.1	120	0.00
73		Bromoform	0.187	0.198	-5.9	119	0.00
74		Isopropylbenzene	1.268	1.290	-1.7	124	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 17:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.501	-1.0	128	0.00
76		Bromobenzene	0.362	0.404	-11.6	137	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.334	13.7	109	0.00
78		1,2,3-Trichloropropane	0.116	0.102	12.1	114	0.00
79		n-Propylbenzene	1.718	1.720	-0.1	119	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.098	10.9	107	0.00
81		2-Chlorotoluene	0.368	0.415	-12.8	132	0.00
82		4-Chlorotoluene	0.392	0.424	-8.2	130	0.00
83		1,3,5-Trimethylbenzene	1.331	1.348	-1.3	123	0.00
84		Tert-butylbenzene	1.188	1.275	-7.3	131	0.00
85		Pentachloroethane	0.000	0.000	0.0	127	0.00
86		1,2,4-Trimethylbenzene	1.416	1.400	1.1	123	0.00
87		Sec-Butylbenzene	1.840	1.870	-1.6	124	0.00
88		1,3-Dichlorobenzene	0.805	0.914	-13.5	143	0.00
89		4-Isopropyltoluene	1.579	1.725	-9.2	132	0.00
90		1,4-Dichlorobenzene	0.804	0.900	-11.9	138	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.622	-15.0	146	0.00
92		1,2-Dichlorobenzene	0.773	0.852	-10.2	137	0.00
93		n-Butylbenzene	1.496	1.453	2.9	120	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.063	18.2	102	0.00
95		1,2,4-Trichlorobenzene	0.529	0.571	-7.9	140	0.00
96		Hexachlorobutadiene	0.235	0.243	-3.4	149	0.00
97		Naphthalene	1.447	1.349	6.8	120	0.00
98		1,2,3-Trichlorobenzene	0.473	0.494	-4.4	134	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00
2		Dichlorodifluoromethane	0.089	0.089	0.0	82	0.00
3		Chloromethane	0.174	0.153	12.1	96	0.00
4		Vinyl chloride	0.207	0.189	8.7	81	0.00
5		Bromomethane	0.115	0.335	-191.3#	388#	0.00
6		Chloroethane	0.145	0.135	6.9	86	0.00
7		Trichlorofluoromethane	0.256	0.297	-16.0	93	0.00
8		Ethyl Ether	0.178	0.169	5.1	81	0.00
9		Freon 113	0.158	0.196	-24.1#	108	0.00
10		Acrolein	0.036	0.030	16.7	75	0.00
11		Tert-Butyl alcohol	0.020	0.018	10.0	61	0.00
12		1,1-Dichloroethene	0.182	0.176	3.3	85	0.00
13		Iodomethane	0.211	0.334	-58.3#	332#	0.00
14		Acetonitrile	0.108	0.160	-48.1#	117	0.00
15		Methylene chloride	0.252	0.212	15.9	86	0.00
16		Trans-1,2-dichloroethene	0.209	0.203	2.9	83	0.00
17		Isopropyl ether	0.812	0.778	4.2	81	0.00
18		1,1-Dichloroethane	0.374	0.407	-8.8	90	0.00
19		Acetone	0.095	0.066	30.5#	65	0.00
20		Methyl Acetate	0.186	0.179	3.8	63	0.00
21		MTBE	0.545	0.573	-5.1	85	0.00
22		Carbon disulfide	0.679	0.526	22.5#	78	0.00
23		Allyl Chloride	0.000	0.000	0.0	114	0.00
24		Acrylonitrile	0.063	0.062	1.6	83	0.00
25		Chloroprene	0.357	0.334	6.4	85	0.00
26	T	n-Heptane	0.183	0.009	95.1#	5#	0.11
27		2,2-Dichloropropane	0.313	0.321	-2.6	87	0.00
28		Cis-1,2-dichloroethene	0.253	0.236	6.7	84	0.00
29		1,2-dichloroethene(total)	0.268	0.226	15.7	84	0.00
30		Propionitrile	0.031	0.028	9.7	73	0.00
31		Bromochloromethane	0.109	0.134	-22.9#	102	0.00
32		Tetrahydrofuran	0.051	0.044	13.7	72	0.00
33		Chloroform	0.426	0.436	-2.3	99	0.00
34		Cyclohexane	0.392	0.342	12.8	86	0.00
35		1,1,1-Trichloroethane	0.318	0.350	-10.1	95	0.00
36		Carbon tetrachloride	0.272	0.319	-17.3	99	0.00
37		Methacrylonitrile	0.170	0.165	2.9	86	0.00
38		Methylcyclohexane	0.338	0.344	-1.8	93	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	51	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.283	-6.4	97	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
42		2-Butanone	0.163	0.134	17.8	71	0.00
43		1,1-Dichloropropene	0.339	0.328	3.2	87	0.00
44		Vinyl Acetate	0.381	0.304	20.2#	75	0.00
45		Benzene	1.058	0.971	8.2	85	0.00
46		1,2-Dichloroethane	0.332	0.319	3.9	87	0.00
47		Trichloroethene	0.272	0.256	5.9	90	0.00
48		1,2-Dichloropropane	0.271	0.256	5.5	84	0.00
49		Methyl methacrylate	0.196	0.164	16.3	80	0.00
50		Dibromomethane	0.167	0.166	0.6	93	0.00
51		Bromodichloromethane	0.354	0.388	-9.6	101	0.00
52		2-Chloroethylvinyl ether	0.108	0.048	55.6#	29#	0.00
53		Cis-1,3-dichloropropene	0.427	0.486	-13.8	102	0.00
54	SS	Toluene-d8	1.159	1.359	-17.3	115	0.00
55		Toluene	0.694	0.825	-18.9	109	0.00
56		Trans-1,3-dichloropropene	0.387	0.421	-8.8	96	0.00
57		Ethyl methacrylate	0.347	0.384	-10.7	103	0.00
58		1,1,2-Trichloroethane	0.208	0.238	-14.4	106	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	123	0.00
60		4-Methyl-2-pentanone	0.292	0.243	16.8	93	0.00
61		2-Hexanone	0.210	0.168	20.0	87	0.00
62		Tetrachloroethene	0.288	0.327	-13.5	132	0.00
63		1,3-Dichloropropane	0.416	0.391	6.0	106	0.00
64		Dibromochloromethane	0.301	0.307	-2.0	117	0.00
65		1,2-Dibromoethane	0.257	0.238	7.4	108	0.00
66		1-Chlorohexane	0.432	0.379	12.3	106	0.00
67		Chlorobenzene	0.848	0.850	-0.2	115	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.332	-9.2	124	0.00
69		Ethylbenzene	1.451	1.351	6.9	110	0.00
70		m,p-Xylene	0.570	0.578	-1.4	115	0.00
71		o-Xylene	0.578	0.562	2.8	115	0.00
72		Xylene (Total)	0.586	0.573	2.2	115	0.00
73		Styrene	0.960	0.958	0.2	115	0.00
74		Bromoform	0.187	0.196	-4.8	114	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.254	-2.1	119	0.00
76	SS	4-Bromofluorobenzene	0.471	0.468	0.6	120	0.00
77		Bromobenzene	0.336	0.378	-12.5	131	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.299	9.4	103	0.00
79		1,2,3-Trichloropropane	0.098	0.095	3.1	112	0.00
80		n-Propylbenzene	1.700	1.660	2.4	114	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.065	21.7#	73	0.00
82		2-Chlorotoluene	0.361	0.384	-6.4	123	0.00
83		4-Chlorotoluene	0.374	0.406	-8.6	128	0.00
84		1,3,5-Trimethylbenzene	1.207	1.236	-2.4	119	0.00
85		Tert-butylbenzene	1.049	1.127	-7.4	123	0.00
86		Pentachloroethane	0.000	0.000	0.0	128	0.00
87		1,2,4-Trimethylbenzene	1.254	1.311	-4.5	122	0.00
88		Sec-Butylbenzene	1.607	1.698	-5.7	121	0.00
89		1,3-Dichlorobenzene	0.706	0.819	-16.0	136	0.00
90		4-Isopropyltoluene	1.367	1.573	-15.1	128	0.00
91		1,4-Dichlorobenzene	0.708	0.810	-14.4	133	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.535	-15.8	141	0.00
93		1,2-Dichlorobenzene	0.674	0.758	-12.5	135	0.00
94		n-Butylbenzene	1.349	1.330	1.4	117	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.049	14.0	97	0.00
96		1,2,4-Trichlorobenzene	0.409	0.463	-13.2	136	0.00
97		Hexachlorobutadiene	0.190	0.223	-17.4	139	0.00
98		Naphthalene	0.975	0.977	-0.2	109	0.00
99		1,2,3-Trichlorobenzene	0.342	0.382	-11.7	129	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
MW8S0309MSD

Lab Name : GPL Laboratories SDG NO : 903080 Method : SW8260B

Lab Code : GPL Lab Sample ID : 903080-004-034-1/6MSD Matrix : WATER Analysis Date : 03/24/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1-Trichloroethane	50	50	0.0	68	59	134 *	118	13	30	65-130
1,1,2,2-Tetrachloroethane	50	50	0.0	52	52	104	104	0	30	65-130
1,1,2-Trichloroethane	50	50	0.0	67	60	134 *	120	11	30	75-125
1,1-Dichloroethane	50	50	0.0	64	56	128	112	13	30	70-135
1,1-Dichloroethene	50	50	0.0	59	54	118	108	9	30	70-130
1,2,4-Trichlorobenzene	50	50	0.0	61	60	122	120	2	30	65-135
1,2-Dibromo-3-Chloropropane	50	50	0.0	48	53	96	106	10	30	50-130
1,2-Dichlorobenzene	50	50	0.0	63	58	126 *	116	8	30	70-120
1,2-Dichloroethane	50	50	0.0	54	48	108	96	12	30	70-130
1,2-Dichloropropane	50	50	0.0	54	50	108	100	8	30	75-125
1,3-Dichlorobenzene	50	50	0.0	67	61	134 *	122	9	30	75-125
1,4-Dichlorobenzene	50	50	0.0	66	61	132 *	122	8	30	75-125
2-Butanone	100	100	0.0	90	90	90	90	0	30	30-150
2-Hexanone	100	100	0.0	87	92	87	92	6	30	55-130
4-Methyl-2-Pentanone	100	100	0.0	93	97	92	97	5	30	60-135
Acetone	100	100	0.0	75	80	74	80	8	30	40-140
Benzene	50	50	0.0	56	47	112	94	17	30	80-120
Bromodichloromethane	50	50	0.0	66	48	132 *	96	32 *	30	75-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 2 Out of 49 Outside Limit
Spike Recovery : 16 Out of 98 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
MW8S0309MSD

Lab Name : GPL Laboratories SDG NO : 903080 Method : SW8260B

Lab Code : GPL Lab Sample ID : 903080-004-034-1/6MSD Matrix : WATER Analysis Date : 03/24/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Bromoform	50	50	0.0	59	57	118	114	3	30	70-130
Bromomethane	50	50	0.0	140	130	280 *	260 *	7	30	30-145
Carbon Disulfide	50	50	0.0	50	42	100	84	17	30	35-160
Carbon Tetrachloride	50	50	0.0	75	66	150 *	132	13	30	65-140
Chlorobenzene	50	50	0.0	60	53	120	106	12	30	80-120
Chloroethane	50	50	0.0	52	96	104	192 *	59 *	30	60-135
Chloroform	50	50	0.0	62	56	124	110	12	30	65-135
Chloromethane	50	50	0.0	45	45	90	90	0	30	70-125
Cyclohexane	50	50	0.0	63	52	126 *	104	19	30	50-120
Dibromochloromethane	50	50	0.0	57	52	114	104	9	30	64-154
Dichlorodifluoromethane	50	50	0.0	47	44	94	88	7	30	30-155
Ethylbenzene	50	50	0.0	57	50	114	100	13	30	75-125
Ethylene DiBromide	50	50	0.0	52	49	104	98	6	30	80-120
Freon 113	50	50	0.0	81	74	162 *	148 *	9	30	70-130
Isopropylbenzene	50	50	0.0	63	54	126 *	108	15	30	75-125
Methyl Acetate	50	50	0.0	43	55	86	110	24	30	70-121
Methylcyclohexane	50	50	0.0	70	62	140 *	124	12	30	75-125
Methylene Chloride	50	50	0.0	54	44	108	88	20	30	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 2 Out of 49 Outside Limit
Spike Recovery : 16 Out of 98 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
MW8S0309MSD

Lab Name : GPL Laboratories SDG NO : 903080 Method : SW8260B

Lab Code : GPL Lab Sample ID : 903080-004-034-1/6MSD Matrix : WATER Analysis Date : 03/24/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Styrene	50	50	0.0	57	50	114	100	13	30	65-135
Tetrachloroethylene	50	50	0.0	70	59	140	118	17	30	45-150
Toluene	50	50	0.0	71	60	142 *	120	17	30	75-120
Trichloroethene	50	50	0.0	57	48	114	96	17	30	70-125
Trichlorofluoromethane	50	50	0.0	59	56	118	112	5	30	60-145
Vinyl Chloride	50	50	0.0	47	42	94	84	11	30	50-145
cis-1,2-Dichloroethene	50	50	0.0	57	49	114	98	15	30	70-125
cis-1,3-Dichloropropene	50	50	0.0	63	57	126	114	10	30	70-130
m,p-Xylene	100	100	0.0	120	110	120	110	9	30	75-130
o-Xylene	50	50	0.0	58	50	116	100	15	30	80-120
tert-butyl methyl ether	50	50	0.0	60	58	120	116	3	30	65-125
trans-1,2-dichloroethene	50	50	0.0	59	52	118	104	13	30	60-140
trans-1,3-dichloropropene	50	50	0.0	59	58	118	116	2	30	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 2 Out of 49 Outside Limit
Spike Recovery : 16 Out of 98 outside limit

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
MW8S0309MS

Lab Name :	GPL Laboratories	Client. :	Earth Resources Technology, Inc
Lab Code :	GPL	SAS NO. :	903080
Case No. :		SDG NO :	903080
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903080-004-034-1/6MS
Sample Volume :	5	Lab File ID :	A62477.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	67	
79-34-5	1,1,2,2-Tetrachloroethane	52	
79-00-5	1,1,2-Trichloroethane	67	
75-34-3	1,1-Dichloroethane	64	
75-35-4	1,1-Dichloroethene	59	
120-82-1	1,2,4-Trichlorobenzene	61	
96-12-8	1,2-Dibromo-3-Chloropropane	48	
95-50-1	1,2-Dichlorobenzene	63	
107-06-2	1,2-Dichloroethane	54	
78-87-5	1,2-Dichloropropane	54	
541-73-1	1,3-Dichlorobenzene	67	
106-46-7	1,4-Dichlorobenzene	66	
78-93-3	2-Butanone	90	
591-78-6	2-Hexanone	87	
108-10-1	4-Methyl-2-Pentanone	92	
67-64-1	Acetone	74	
71-43-2	Benzene	56	
75-27-4	Bromodichloromethane	66	
75-25-2	Bromoform	59	
74-83-9	Bromomethane	140	
75-15-0	Carbon Disulfide	50	
56-23-5	Carbon Tetrachloride	75	
108-90-7	Chlorobenzene	60	
75-00-3	Chloroethane	52	
67-66-3	Chloroform	62	
74-87-3	Chloromethane	45	
110-82-7	Cyclohexane	63	
124-48-1	Dibromochloromethane	57	
75-71-8	Dichlorodifluoromethane	47	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
MW8S0309MS

Lab Name :	GPL Laboratories	Client. :	Earth Resources Technology, Inc
Lab Code :	GPL	SAS NO. :	903080
Case No. :		SDG NO :	903080
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903080-004-034-1/6MS
Sample Volume :	5	Lab File ID :	A62477.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	57	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	81	
98-82-8	Isopropylbenzene	63	
79-20-9	Methyl Acetate	43	
108-87-2	Methylcyclohexane	70	
75-09-2	Methylene Chloride	54	
100-42-5	Styrene	57	
127-18-4	Tetrachloroethylene	70	
108-88-3	Toluene	70	
79-01-6	Trichloroethene	57	
75-69-4	Trichlorofluoromethane	58	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	57	
10061-01-5	cis-1,3-Dichloropropene	63	
136777-61-2	m,p-Xylene	120	
95-47-6	o-Xylene	58	
1634-04-4	tert-butyl methyl ether	60	
156-60-5	trans-1,2-dichloroethene	59	
10061-02-6	trans-1,3-dichloropropene	59	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
MW8S0309MSD

Lab Name :	GPL Laboratories	Client. :	Earth Resources Technology, Inc
Lab Code :	GPL	SAS NO. :	903080
Case No. :		SDG NO :	903080
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903080-004-034-1/6MSD
Sample Volume :	5	Lab File ID :	A62479.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	59	
79-34-5	1,1,2,2-Tetrachloroethane	52	
79-00-5	1,1,2-Trichloroethane	60	
75-34-3	1,1-Dichloroethane	56	
75-35-4	1,1-Dichloroethene	54	
120-82-1	1,2,4-Trichlorobenzene	60	
96-12-8	1,2-Dibromo-3-Chloropropane	53	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	48	
78-87-5	1,2-Dichloropropane	50	
541-73-1	1,3-Dichlorobenzene	61	
106-46-7	1,4-Dichlorobenzene	61	
78-93-3	2-Butanone	90	
591-78-6	2-Hexanone	92	
108-10-1	4-Methyl-2-Pentanone	97	
67-64-1	Acetone	80	
71-43-2	Benzene	47	
75-27-4	Bromodichloromethane	48	
75-25-2	Bromoform	57	
74-83-9	Bromomethane	130	
75-15-0	Carbon Disulfide	42	
56-23-5	Carbon Tetrachloride	66	
108-90-7	Chlorobenzene	53	
75-00-3	Chloroethane	96	
67-66-3	Chloroform	55	
74-87-3	Chloromethane	45	
110-82-7	Cyclohexane	52	
124-48-1	Dibromochloromethane	52	
75-71-8	Dichlorodifluoromethane	44	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
MW8S0309MSD

Lab Name :	GPL Laboratories	Client. :	Earth Resources Technology, Inc
Lab Code :	GPL	SAS NO. :	903080
Case No. :		SDG NO :	903080
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903080-004-034-1/6MSD
Sample Volume :	5	Lab File ID :	A62479.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	74	
98-82-8	Isopropylbenzene	54	
79-20-9	Methyl Acetate	55	
108-87-2	Methylcyclohexane	62	
75-09-2	Methylene Chloride	44	
100-42-5	Styrene	50	
127-18-4	Tetrachloroethylene	59	
108-88-3	Toluene	60	
79-01-6	Trichloroethene	48	
75-69-4	Trichlorofluoromethane	56	
75-01-4	Vinyl Chloride	42	
156-59-2	cis-1,2-Dichloroethene	49	
10061-01-5	cis-1,3-Dichloropropene	57	
136777-61-2	m,p-Xylene	110	
95-47-6	o-Xylene	50	
1634-04-4	tert-butyl methyl ether	58	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	58	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108792
Sample Volume :	5	Lab File ID :	A62474.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	53	
71-55-6	1,1,1-Trichloroethane	59	
79-34-5	1,1,2,2-Tetrachloroethane	48	
79-00-5	1,1,2-Trichloroethane	50	
75-34-3	1,1-Dichloroethane	61	
75-35-4	1,1-Dichloroethene	53	
563-58-6	1,1-Dichloropropene	53	
87-61-6	1,2,3-Trichlorobenzene	71	
96-18-4	1,2,3-Trichloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	72	
95-63-6	1,2,4-Trimethylbenzene	57	
96-12-8	1,2-Dibromo-3-Chloropropane	52	
95-50-1	1,2-Dichlorobenzene	67	
107-06-2	1,2-Dichloroethane	52	
78-87-5	1,2-Dichloropropane	50	
108-67-8	1,3,5-trimethylbenzene	58	
541-73-1	1,3-Dichlorobenzene	65	
142-28-9	1,3-Dichloropropane	41	
106-46-7	1,4-Dichlorobenzene	64	
594-20-7	2,2-Dichloropropane	53	
78-93-3	2-Butanone	110	
95-49-8	2-Chlorotoluene	63	
591-78-6	2-Hexanone	76	
106-43-4	4-Chlorotoluene	60	
99-87-6	4-Isopropyltoluene	65	
108-10-1	4-Methyl-2-Pentanone	71	
67-64-1	Acetone	130	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	63	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108792
Sample Volume :	5	Lab File ID :	A62474.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	59	
75-27-4	Bromodichloromethane	51	
75-25-2	Bromoform	47	
74-83-9	Bromomethane	58	
75-15-0	Carbon Disulfide	49	
56-23-5	Carbon Tetrachloride	56	
108-90-7	Chlorobenzene	55	
75-00-3	Chloroethane	44	
67-66-3	Chloroform	55	
74-87-3	Chloromethane	53	
110-82-7	Cyclohexane	47	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	56	
75-71-8	Dichlorodifluoromethane	43	
100-41-4	Ethylbenzene	51	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	56	
87-68-3	Hexachlorobutadiene	68	
98-82-8	Isopropylbenzene	57	
79-20-9	Methyl Acetate	60	
108-87-2	Methylcyclohexane	48	
75-09-2	Methylene Chloride	52	
91-20-3	Naphthalene	62	
135-98-8	Sec-Butylbenzene	59	
100-42-5	Styrene	53	
127-18-4	Tetrachloroethylene	59	
108-88-3	Toluene	56	
79-01-6	Trichloroethene	51	
75-69-4	Trichlorofluoromethane	58	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108792
Sample Volume :	5	Lab File ID :	A62474.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	4.8	
75-01-4	Vinyl Chloride	45	
156-59-2	cis-1,2-Dichloroethene	54	
10061-01-5	cis-1,3-Dichloropropene	42	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	59	
103-65-1	n-Propylbenzene	56	
95-47-6	o-Xylene	55	
98-06-6	tert-Butylbenzene	62	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	54	
10061-02-6	trans-1,3-dichloropropene	47	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108803
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	59	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	50	
79-00-5	1,1,2-Trichloroethane	63	
75-34-3	1,1-Dichloroethane	58	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	52	
87-61-6	1,2,3-Trichlorobenzene	60	
96-18-4	1,2,3-Trichloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	59	
95-63-6	1,2,4-Trimethylbenzene	56	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
95-50-1	1,2-Dichlorobenzene	60	
107-06-2	1,2-Dichloroethane	53	
78-87-5	1,2-Dichloropropane	52	
108-67-8	1,3,5-trimethylbenzene	55	
541-73-1	1,3-Dichlorobenzene	62	
142-28-9	1,3-Dichloropropane	51	
106-46-7	1,4-Dichlorobenzene	62	
594-20-7	2,2-Dichloropropane	56	
78-93-3	2-Butanone	90	
95-49-8	2-Chlorotoluene	58	
591-78-6	2-Hexanone	87	
106-43-4	4-Chlorotoluene	59	
99-87-6	4-Isopropyltoluene	63	
108-10-1	4-Methyl-2-Pentanone	90	
67-64-1	Acetone	87	
71-43-2	Benzene	50	
108-86-1	Bromobenzene	62	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108803
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	67	
75-27-4	Bromodichloromethane	62	
75-25-2	Bromoform	57	
74-83-9	Bromomethane	120	
75-15-0	Carbon Disulfide	45	
56-23-5	Carbon Tetrachloride	63	
108-90-7	Chlorobenzene	55	
75-00-3	Chloroethane	69	
67-66-3	Chloroform	58	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	45	
124-48-1	Dibromochloromethane	55	
74-95-3	Dibromomethane	52	
75-71-8	Dichlorodifluoromethane	41	
100-41-4	Ethylbenzene	52	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	56	
87-68-3	Hexachlorobutadiene	63	
98-82-8	Isopropylbenzene	55	
79-20-9	Methyl Acetate	42	
108-87-2	Methylcyclohexane	48	
75-09-2	Methylene Chloride	50	
91-20-3	Naphthalene	54	
135-98-8	Sec-Butylbenzene	57	
100-42-5	Styrene	53	
127-18-4	Tetrachloroethylene	61	
108-88-3	Toluene	64	
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108803
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	39	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	51	
10061-01-5	cis-1,3-Dichloropropene	62	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	55	
103-65-1	n-Propylbenzene	53	
95-47-6	o-Xylene	53	
98-06-6	tert-Butylbenzene	59	
1634-04-4	tert-butyl methyl ether	59	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108804
Sample Volume :	5	Lab File ID :	A62508.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	49	
71-55-6	1,1,1-Trichloroethane	56	
79-34-5	1,1,2,2-Tetrachloroethane	45	
79-00-5	1,1,2-Trichloroethane	45	
75-34-3	1,1-Dichloroethane	53	
75-35-4	1,1-Dichloroethene	51	
563-58-6	1,1-Dichloropropene	49	
87-61-6	1,2,3-Trichlorobenzene	56	
96-18-4	1,2,3-Trichloropropane	47	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	49	
96-12-8	1,2-Dibromo-3-Chloropropane	44	
95-50-1	1,2-Dichlorobenzene	57	
107-06-2	1,2-Dichloroethane	47	
78-87-5	1,2-Dichloropropane	44	
108-67-8	1,3,5-trimethylbenzene	50	
541-73-1	1,3-Dichlorobenzene	56	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	56	
594-20-7	2,2-Dichloropropane	56	
78-93-3	2-Butanone	100	
95-49-8	2-Chlorotoluene	56	
591-78-6	2-Hexanone	75	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	54	
108-10-1	4-Methyl-2-Pentanone	67	
67-64-1	Acetone	110	
71-43-2	Benzene	44	
108-86-1	Bromobenzene	55	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108804
Sample Volume :	5	Lab File ID :	A62508.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	58	
75-27-4	Bromodichloromethane	46	
75-25-2	Bromoform	47	
74-83-9	Bromomethane	74	
75-15-0	Carbon Disulfide	51	
56-23-5	Carbon Tetrachloride	56	
108-90-7	Chlorobenzene	51	
75-00-3	Chloroethane	49	
67-66-3	Chloroform	51	
74-87-3	Chloromethane	69	
110-82-7	Cyclohexane	46	
124-48-1	Dibromochloromethane	50	
74-95-3	Dibromomethane	49	
75-71-8	Dichlorodifluoromethane	43	
100-41-4	Ethylbenzene	47	
106-93-4	Ethylene DiBromide	48	
76-13-1	Freon 113	56	
87-68-3	Hexachlorobutadiene	52	
98-82-8	Isopropylbenzene	50	
79-20-9	Methyl Acetate	69	
108-87-2	Methylcyclohexane	47	
75-09-2	Methylene Chloride	51	
91-20-3	Naphthalene	50	
135-98-8	Sec-Butylbenzene	50	
100-42-5	Styrene	49	
127-18-4	Tetrachloroethylene	50	
108-88-3	Toluene	53	
79-01-6	Trichloroethene	44	
75-69-4	Trichlorofluoromethane	65	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108804
Sample Volume :	5	Lab File ID :	A62508.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	160	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	51	
10061-01-5	cis-1,3-Dichloropropene	40	
136777-61-2	m,p-Xylene	98	
104-51-8	n-Butylbenzene	48	
103-65-1	n-Propylbenzene	49	
95-47-6	o-Xylene	50	
98-06-6	tert-Butylbenzene	52	
1634-04-4	tert-butyl methyl ether	54	
156-60-5	trans-1,2-dichloroethene	54	
10061-02-6	trans-1,3-dichloropropene	46	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108792
Sample Volume :	5	Lab File ID :	A62476.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108792
Sample Volume :	5	Lab File ID :	A62476.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108792
Sample Volume :	5	Lab File ID :	A62476.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108803
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108803
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108803
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108804
Sample Volume :	5	Lab File ID :	A62510.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108804
Sample Volume :	5	Lab File ID :	A62510.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108804
Sample Volume :	5	Lab File ID :	A62510.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-001-1/3
Sample Volume :	5	Lab File ID :	A62516.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-001-1/3
Sample Volume :	5	Lab File ID :	A62516.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	2.0	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-001-1/3
Sample Volume :	5	Lab File ID :	A62516.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	8.8	
156-59-2	cis-1,2-Dichloroethene	32	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	2.9	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-004-1/3
Sample Volume :	5	Lab File ID :	A62518.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-004-1/3
Sample Volume :	5	Lab File ID :	A62518.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-004-1/3
Sample Volume :	5	Lab File ID :	A62518.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-013-1/3
Sample Volume :	5	Lab File ID :	A62494.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-013-1/3
Sample Volume :	5	Lab File ID :	A62494.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.7	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-013-1/3
Sample Volume :	5	Lab File ID :	A62494.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-016-1/2
Sample Volume :	5	Lab File ID :	A62496.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-016-1/2
Sample Volume :	5	Lab File ID :	A62496.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.6	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	10	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-016-1/2
Sample Volume :	5	Lab File ID :	A62496.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	31	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-007-1/3
Sample Volume :	5	Lab File ID :	A62493.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	2.5	
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-007-1/3
Sample Volume :	5	Lab File ID :	A62493.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	84	
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.8	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	56	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-007-1/3
Sample Volume :	5	Lab File ID :	A62493.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	34	
156-59-2	cis-1,2-Dichloroethene	180	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	13	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB05-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-006-010-1/3
Sample Volume :	5	Lab File ID :	A62495.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB05-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-006-010-1/3
Sample Volume :	5	Lab File ID :	A62495.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	9.5	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB05-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-006-010-1/3
Sample Volume :	5	Lab File ID :	A62495.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903071

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108792	105	101	103	131
BLK108792	96	93	100	109
OU1-16GW33-0309	94	95	99	111
OU1-16MW28-0309	94	96	102	113

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

Method Report - 080917L-300-0

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.63 min	1.00 min	
Chloride	6.40 min	1.00 min	
Nitrite-N	8.27 min	1.00 min	
Bromide	11.13 min	1.00 min	
Nitrate-N	13.37 min	1.00 min	
Phosphate-P	16.77 min	1.00 min	
Sulfate	18.97 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.63 min	0	0
Chloride	6.40 min	0	0
Nitrite-N	8.27 min	0	0
Bromide	11.13 min	0	0
Nitrate-N	13.37 min	0	0
Phosphate-P	16.77 min	0	0
Sulfate	18.97 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.63 min	Linear	Ignore	Area		0.00
Chloride	6.40 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.27 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.13 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	13.37 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.77 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.97 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	4957.2
2	0.10	109547
3	0.25	277132
4	0.50	557311
5	1.00	1.24129e+006
6	2.50	3.20076e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.40 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	77115.9
3	0.25	197410
4	0.50	408470
5	1.00	836176
6	2.50	2.12844e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.27 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	13027
2	0.10	159558
3	0.25	359105
4	0.50	820570
5	1.00	1.74342e+006
6	2.50	4.38464e+006

CD20 Component = Bromide Levels Table

Retention Time : 11.13 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	38326.6
3	0.25	88554.3
4	0.50	165498
5	1.00	356395
6	2.50	912041

CD20 Component = Nitrate-N Levels Table

Retention Time : 13.37 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	205502
3	0.25	506529
4	0.50	970676
5	1.00	2.16507e+006
6	2.50	6.05721e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7303.4
2	0.10	67439.6
3	0.25	165945
4	0.50	353067
5	1.00	734622
6	2.50	1.93771e+006

CD20 Component = Sulfate Levels Table

Retention Time : 18.97 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	53956.6
3	0.25	139751
4	0.50	274835
5	1.00	612643
6	2.50	1.52046e+006

CD20 XY Data Parameters

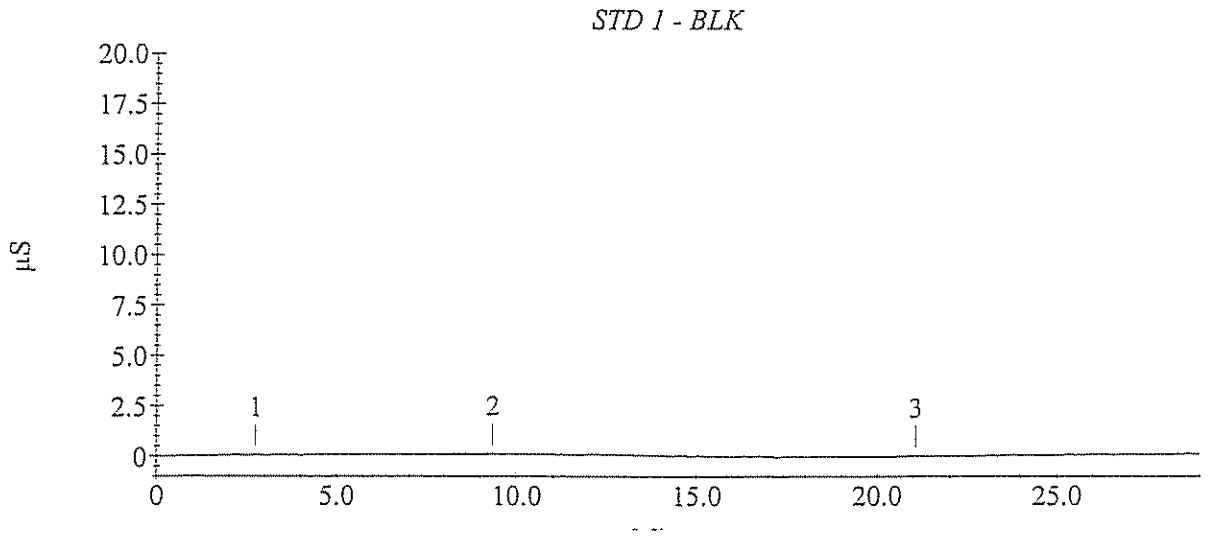
Calibration Update Report

Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\080917\080917__003.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:21:51 PM
Calibration Date : 9/18/08 10:53:59 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride Chloride	2.73	12030	4957	4957
2	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	9.33	10214	13027	13027



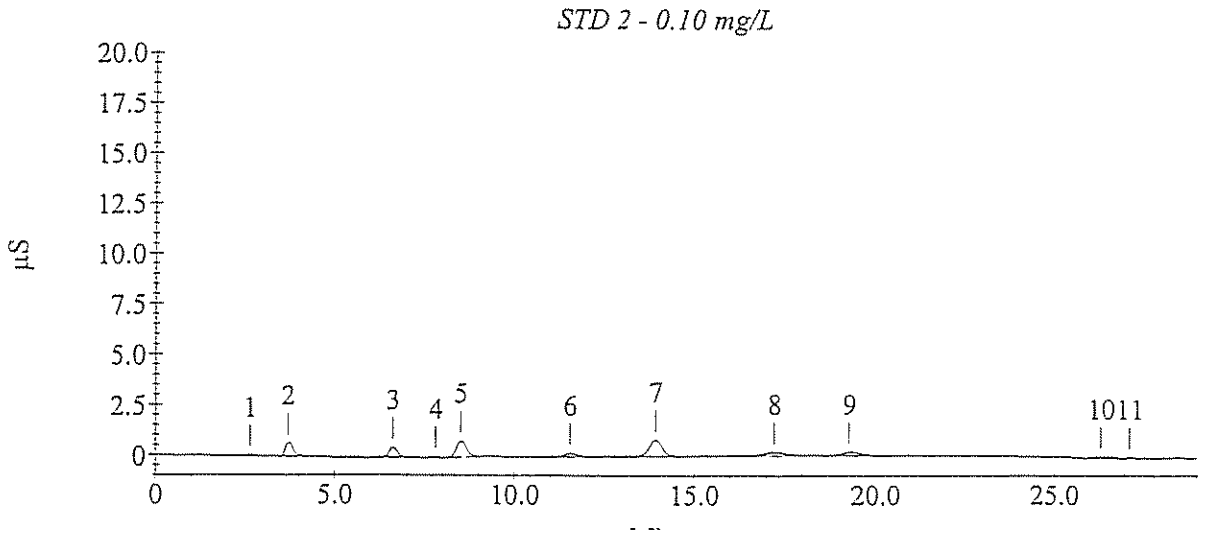
Calibration Update Report

Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__004.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:54:07 PM
Calibration Date : 9/18/08 10:54:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.70	127699	109547	109547
3	Chloride	6.60	79506	77116	77116
5	Nitrite-N	8.50	165770	159558	159558
6	Bromide	11.53	36476	38327	38327
7	Nitrate-N	13.93	210099	205502	205502
8	Phosphate-P	17.20	57656	67440	67440
9	Sulfate	19.27	29056	53957	53957



Calibration Update Report

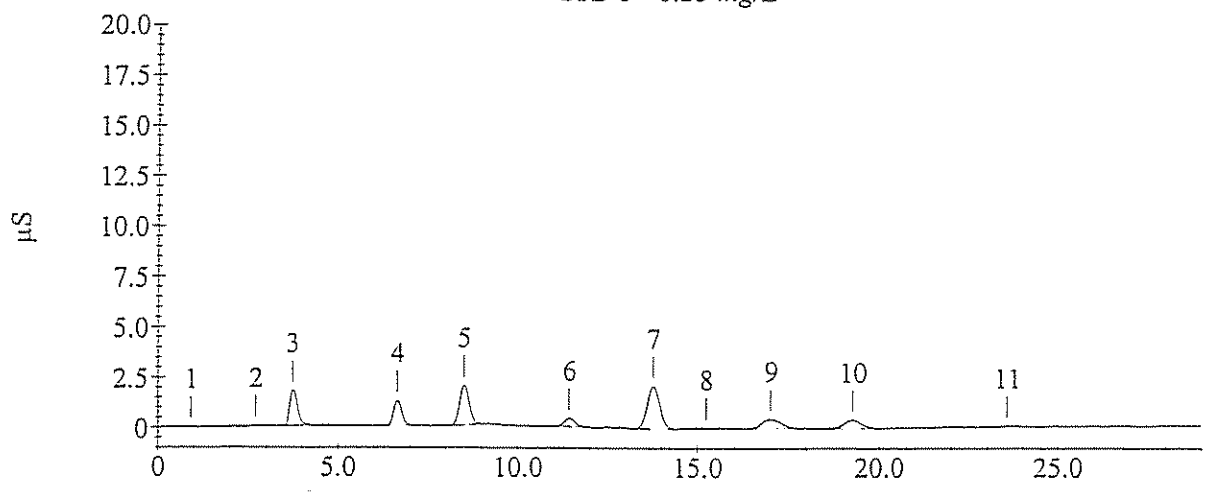
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__005.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:26:23 PM
Calibration Date : 9/18/08 10:55:25 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.73	321091	277132	277132
4	Chloride	6.63	234107	197410	197410
5	Nitrite-N	8.50	439503	359105	359105
6	Bromide	11.43	91211	88554	88554
7	Nitrate-N	13.77	544593	506530	506530
9	Phosphate-P	17.00	161886	165945	165945
10	Sulfate	19.27	150013	139751	139751

STD 3 - 0.25 mg/L



Calibration Update Report

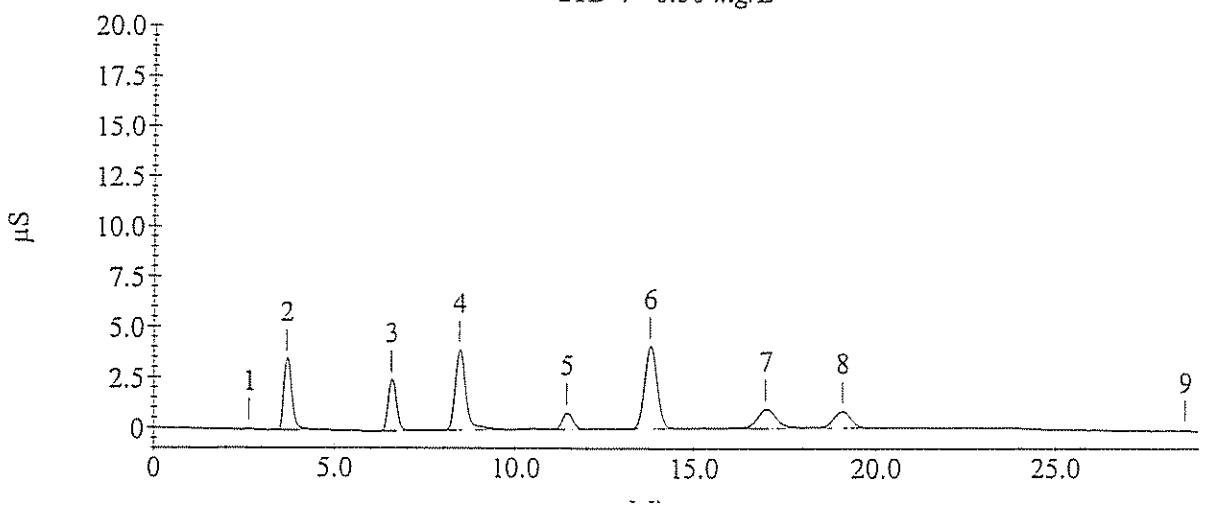
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__006.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:58:39 PM
Calibration Date : 9/18/08 10:55:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	652331	557311	557311
3	Chloride	6.53	443570	408470	408470
4	Nitrite-N	8.43	856511	820570	820570
5	Bromide	11.43	176794	165498	165498
6	Nitrate-N	13.77	1117440	970676	970676
7	Phosphate-P	16.97	364199	353067	353067
8	Sulfate	19.07	317565	274835	274835

STD 4 - 0.50 mg/L



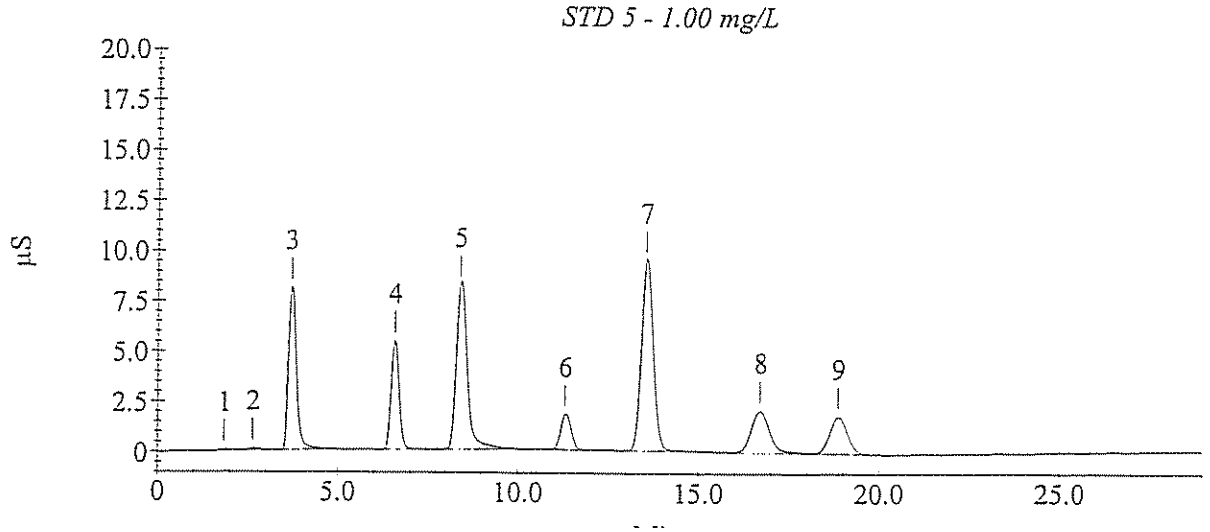
Calibration Update Report

Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__007.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 5:30:56 PM
Calibration Date : 9/18/08 10:56:16 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	1414952	1241286	1241286
4	Chloride	6.57	945973	836176	836176
5	Nitrite-N	8.40	1867081	1743424	1743424
6	Bromide	11.30	378829	356395	356395
7	Nitrate-N	13.53	2350504	2165069	2165069
8	Phosphate-P	16.70	766176	734622	734622
9	Sulfate	18.87	605591	612643	612643



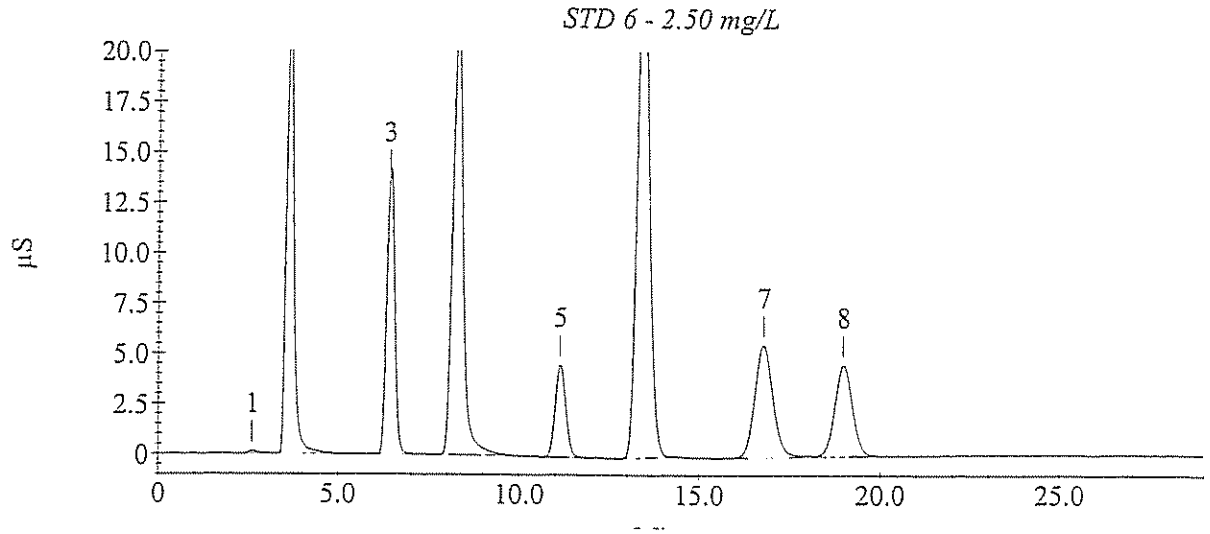
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__008.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:03:10 PM
Calibration Date : 9/18/08 10:56:45 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.63	3393532	3201114	3201114
3	Chloride	6.40	2250125	2128443	2128443
4	Nitrite-N	8.27	4631633	4384638	4384638
5	Bromide	11.13	897545	912041	912041
6	Nitrate-N	13.37	6210895	6057211	6057211
7	Phosphate-P	16.77	2064462	1937708	1937708
8	Sulfate	18.97	1545001	1520461	1520461



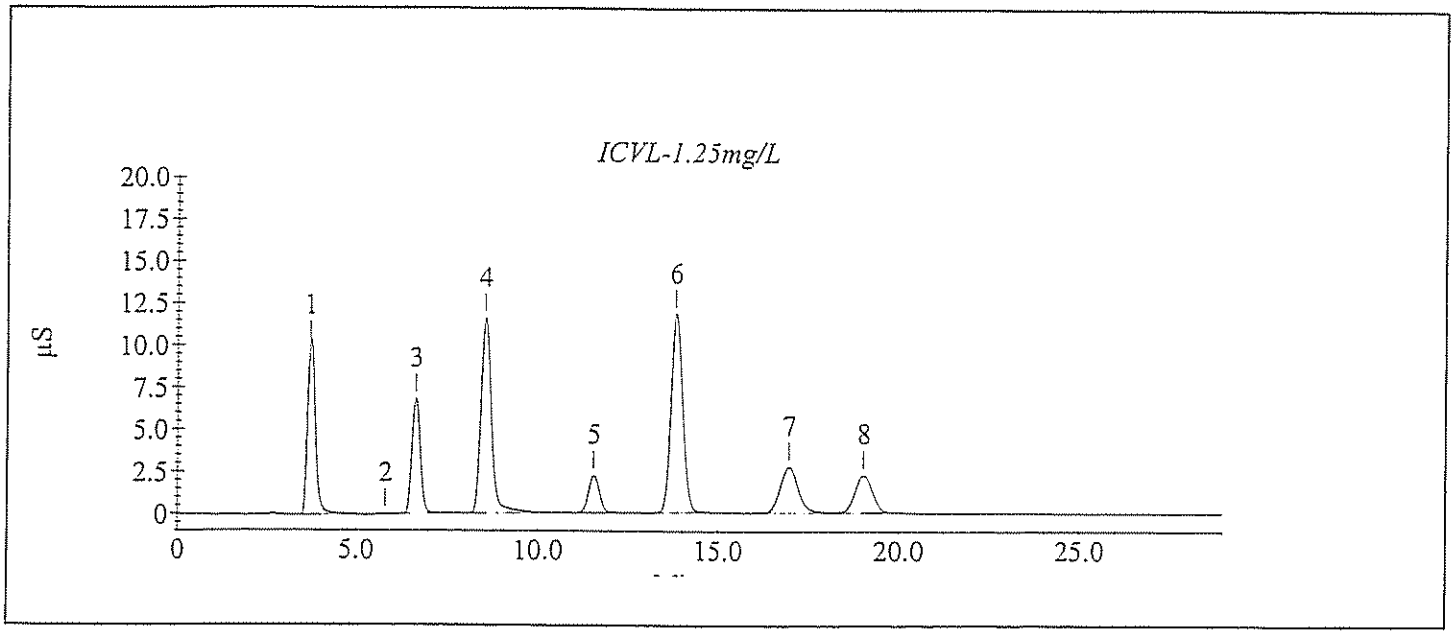
Sample Analysis Report

Sample Name : ICVL-1.25mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 9/17/08 9:49:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	1.272	1599310	100086
3	Chloride	6.63	1.281	1081600	67848
4	Nitrite-N	8.53	1.342	2332375	115172
5	Bromide	11.53	1.266	457280	22107
6	Nitrate-N	13.80	1.167	2714120	117215
7	Phosphate-P	16.97	1.231	934494	27173
8	Sulfate	19.03	1.214	732044	22175



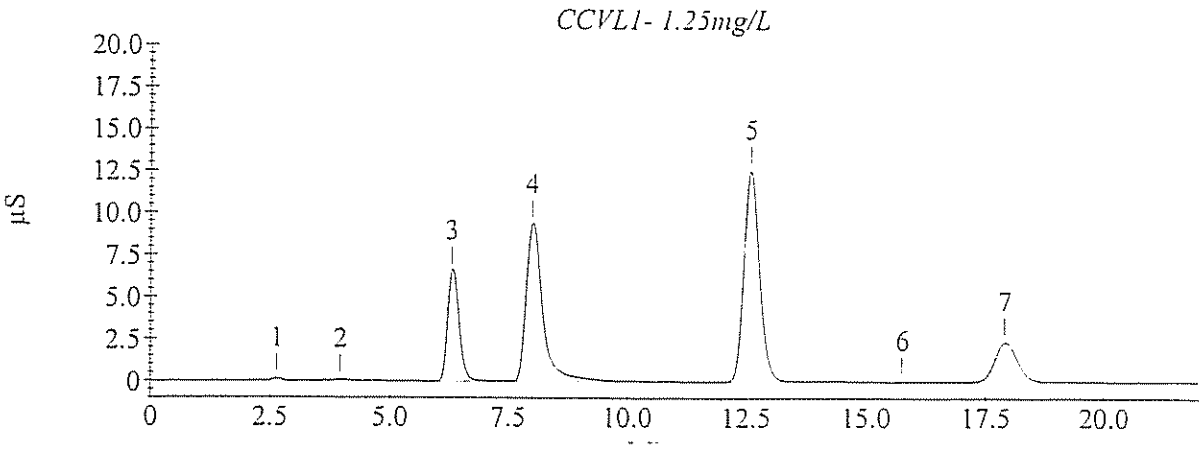
Sample Analysis Report

Sample Name : CCVL1- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090313\090313__009.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 3:36:07 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.97	0.052	15368	837
3	Chloride	6.30	1.334	1126688	65104
4	Nitrite-N Bromide	8.00	1.309	2273367	92712
5	Nitrate-N Phosphate-P	12.60	1.229	2865888	125220
7	Sulfate	17.90	1.293	780357	23468



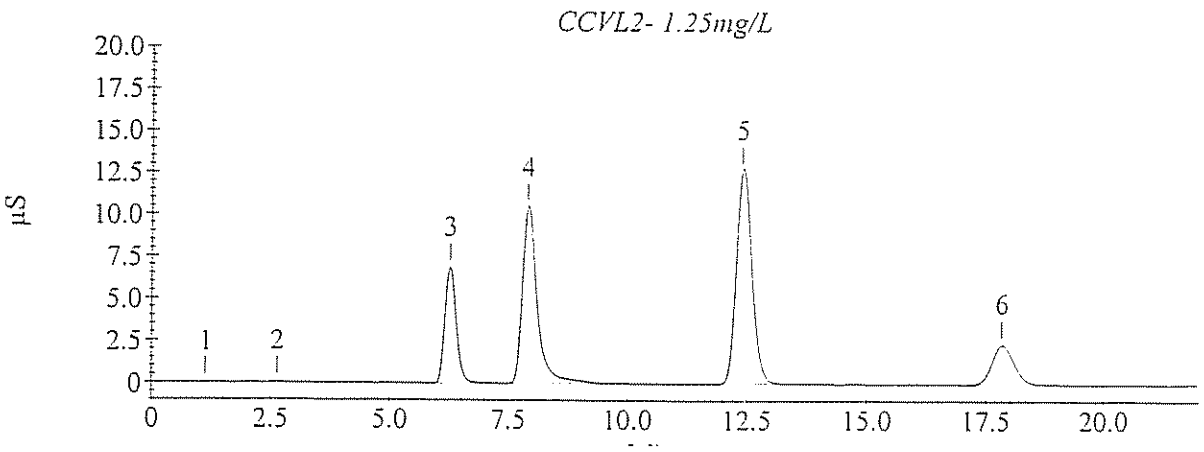
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090313\090313__020.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 8:12:32 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	2.63	0.046	6920	536
3	Chloride	6.27	1.334	1127203	68260
4	Nitrite-N Bromide	7.90	1.314	2282394	103831
5	Nitrate-N Phosphate-P	12.40	1.233	2876897	126073
6	Sulfate	17.83	1.272	767568	23590



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.67 min	1.00 min	
Chloride	6.20 min	1.00 min	
Nitrite-N	7.83 min	1.00 min	
Bromide	10.33 min	1.00 min	
Nitrate-N	12.20 min	1.00 min	
Phosphate-P	15.67 min	5.00 min	
Sulfate	17.80 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.67 min	0	0
Chloride	6.20 min	0	0
Nitrite-N	7.83 min	0	0
Bromide	10.33 min	0	0
Nitrate-N	12.20 min	0	0
Phosphate-P	15.67 min	0	0
Sulfate	17.80 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.67 min	Linear	Ignore	Area		0.00
Chloride	6.20 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	7.83 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.33 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.20 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.67 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.80 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	21958
2	0.10	135267
3	0.25	287985
4	0.50	546281
5	1.00	1.21146e+006
6	2.50	3.07327e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	104137
3	0.25	210975
4	0.50	423601
5	1.00	886345
6	2.50	2.27702e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 7.83 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	62855.3
2	0.10	238116
3	0.25	487595
4	0.50	880655
5	1.00	1.79323e+006
6	2.50	4.50791e+006

CD20 Component = Bromide Levels Table

Retention Time : 10.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	36053.3
3	0.25	87423.9
4	0.50	184692
5	1.00	378819
6	2.50	940431

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	198696
3	0.25	532712
4	0.50	1.03372e+006
5	1.00	2.36629e+006
6	2.50	6.12422e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	8388.6
2	0.10	29693.1
3	0.25	120423
4	0.50	216150
5	1.00	493533
6	2.50	1.34148e+006

CD20 Component = Sulfate Levels Table

Retention Time : 17.80 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	79015.6
3	0.25	193779
4	0.50	348721
5	1.00	729749
6	2.50	1.79531e+006

CD20 XY Data Parameters

Calibration Update Report

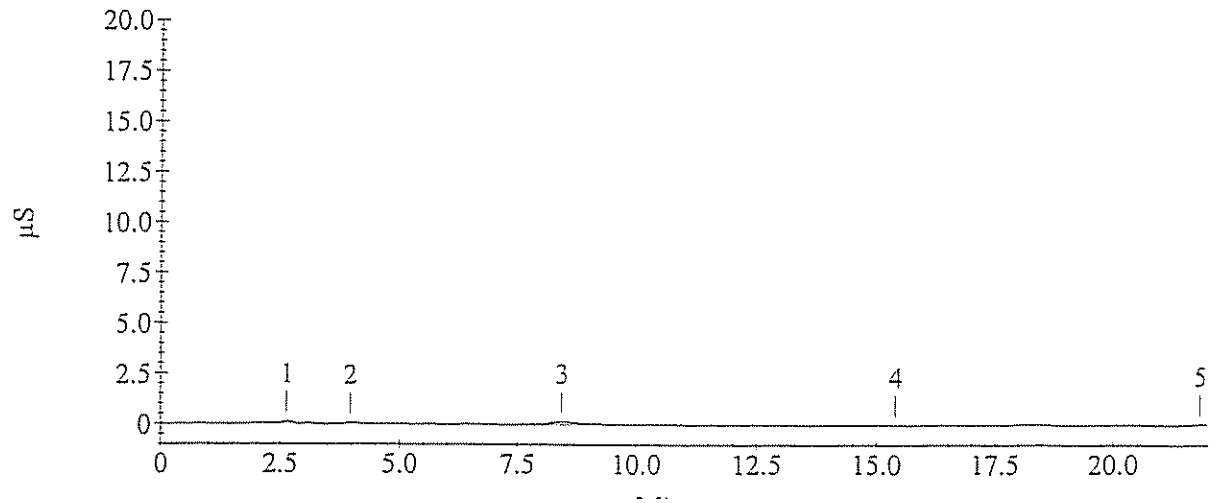
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\090318\090318__005.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:30:43 PM
Calibration Date : 3/19/09 9:53:29 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride Chloride	3.97	4957	21958	21958
3	Nitrite-N Bromide Nitrate-N	8.43	13027	62855	62855
4	Phosphate-P Sulfate	15.40	7303	8389	8389

STD 1 - BLK



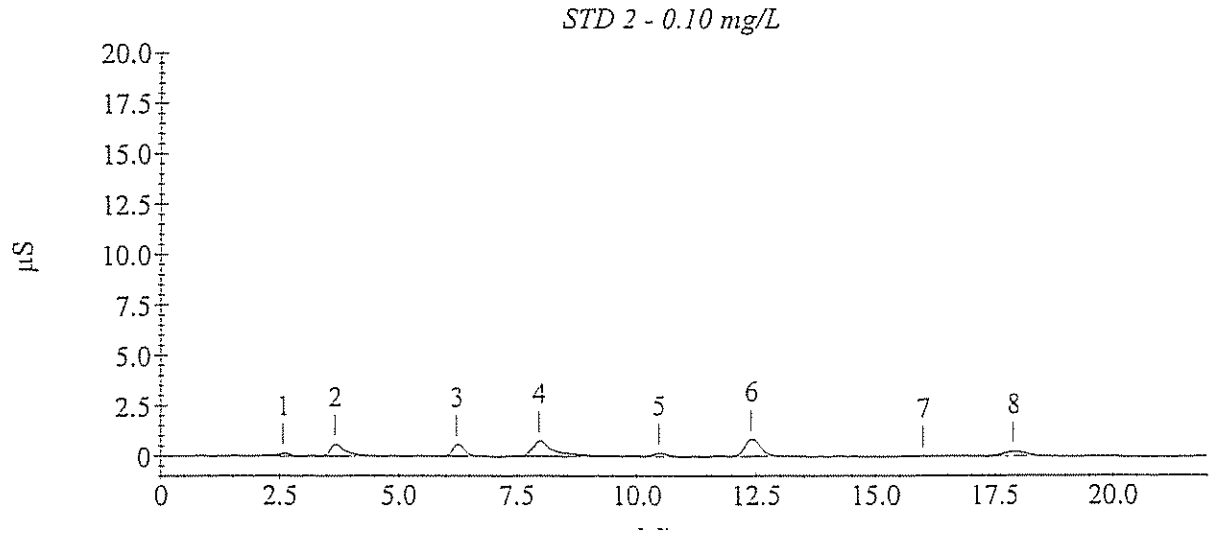
Calibration Update Report

Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__006.DXD

Method File Name : H:\icdata\methods\method 300\090318I-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:55:47 PM
Calibration Date : 3/19/09 10:00:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	109547	135267	135267
3	Chloride	6.23	77116	104137	104137
4	Nitrite-N	7.97	159558	238116	238116
5	Bromide	10.47	38327	36053	36053
6	Nitrate-N	12.40	205502	198696	198696
7	Phosphate-P	16.00	67440	29693	29693
8	Sulfate	17.90	53957	79016	79016



Calibration Update Report

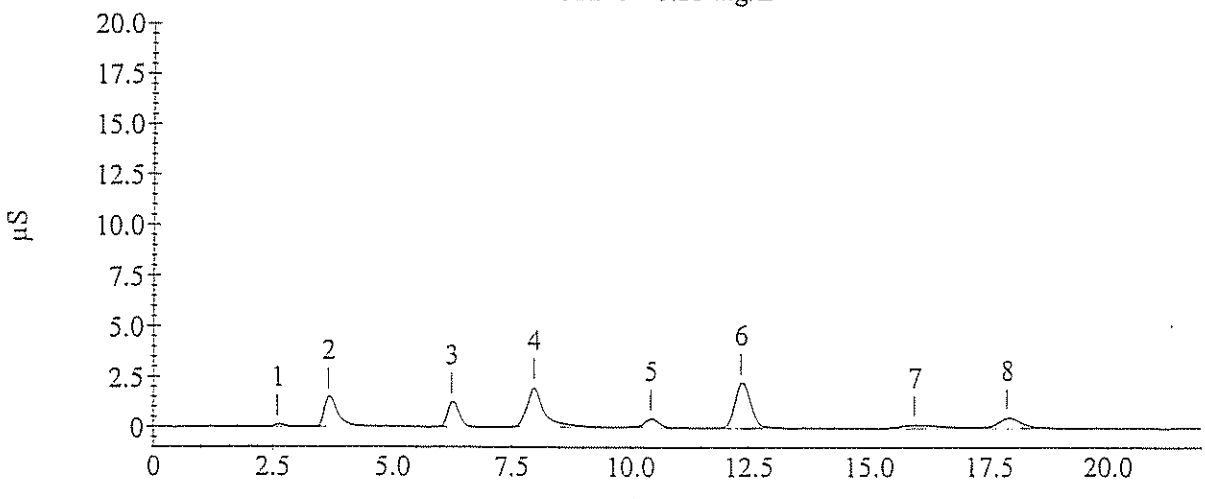
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__007.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:20:51 PM
Calibration Date : 3/19/09 9:16:23 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	277132	287985	287985
3	Chloride	6.23	197410	210975	210975
4	Nitrite-N	7.97	359105	487595	487595
5	Bromide	10.43	88554	87424	87424
6	Nitrate-N	12.33	506529	532712	532712
7	Phosphate-P	15.93	165945	120423	120423
8	Sulfate	17.87	139751	193779	193779

STD 3 - 0.25 mg/L



Calibration Update Report

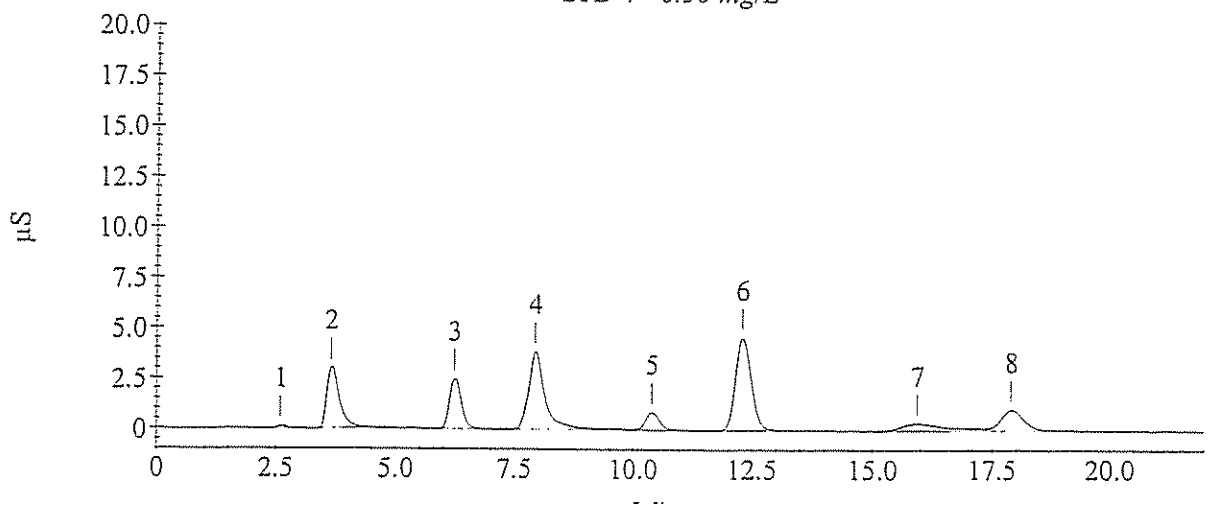
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__008.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:45:56 PM
Calibration Date : 3/19/09 9:16:47 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	557311	546281	546281
3	Chloride	6.23	408470	423601	423601
4	Nitrite-N	7.93	820570	880655	880655
5	Bromide	10.40	165498	184692	184692
6	Nitrate-N	12.30	970676	1033717	1033717
7	Phosphate-P	15.93	353067	216150	216150
8	Sulfate	17.90	274835	348721	348721

STD 4 - 0.50 mg/L



Calibration Update Report

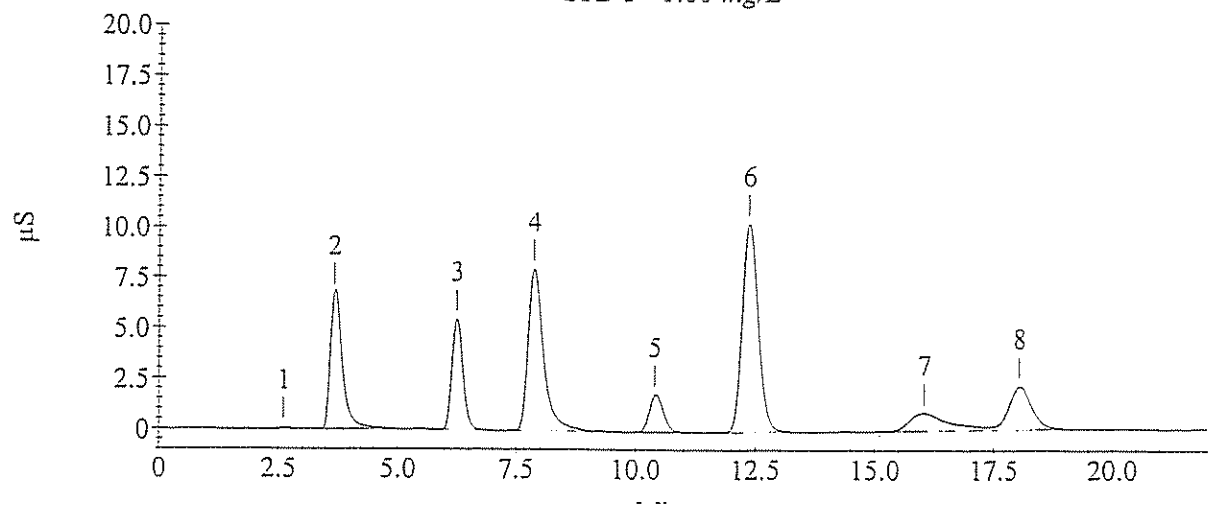
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__009.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:11:03 PM
Calibration Date : 3/19/09 9:17:01 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	1241286	1211455	1211455
3	Chloride	6.23	836176	886345	886345
4	Nitrite-N	7.87	1743424	1793231	1793231
5	Bromide	10.40	356395	378819	378819
6	Nitrate-N	12.37	2165069	2366291	2366291
7	Phosphate-P	16.03	734622	493533	493533
8	Sulfate	18.03	612643	729749	729749

STD 5 - 1.00 mg/L



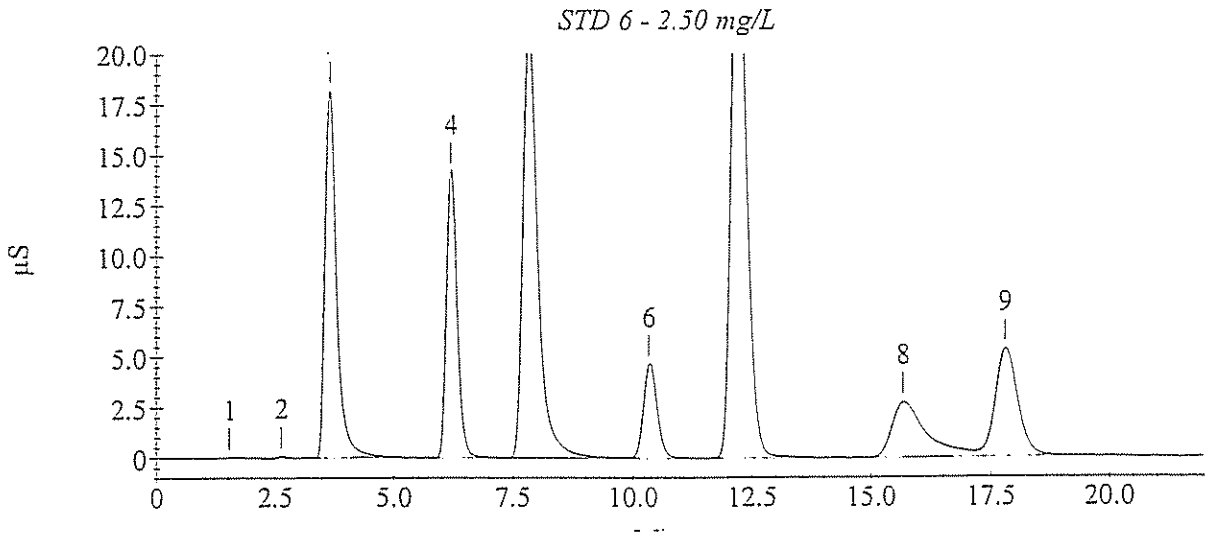
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__010.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:36:08 PM
Calibration Date : 3/19/09 9:17:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.67	3200757	3073266	3073266
4	Chloride	6.20	2128443	2277017	2277017
5	Nitrite-N	7.83	4384638	4507913	4507913
6	Bromide	10.33	912041	940431	940431
7	Nitrate-N	12.20	6057211	6124224	6124224
8	Phosphate-P	15.67	1937708	1341477	1341477
9	Sulfate	17.80	1520461	1795309	1795309



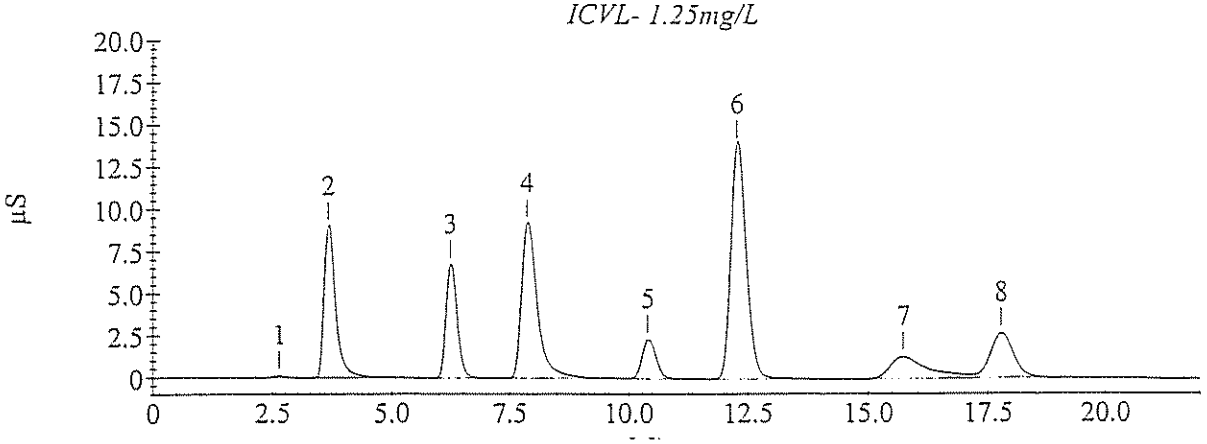
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__017.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/18/09 6:31:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.283	1565911	89179
3	Chloride	6.23	1.228	1107725	66995
4	Nitrite-N	7.87	1.169	2120349	91415
5	Bromide	10.40	1.243	466511	23016
6	Nitrate-N	12.27	1.307	3138229	138573
7	Phosphate-P	15.73	1.340	701225	13082
8	Sulfate	17.77	1.256	905537	26377



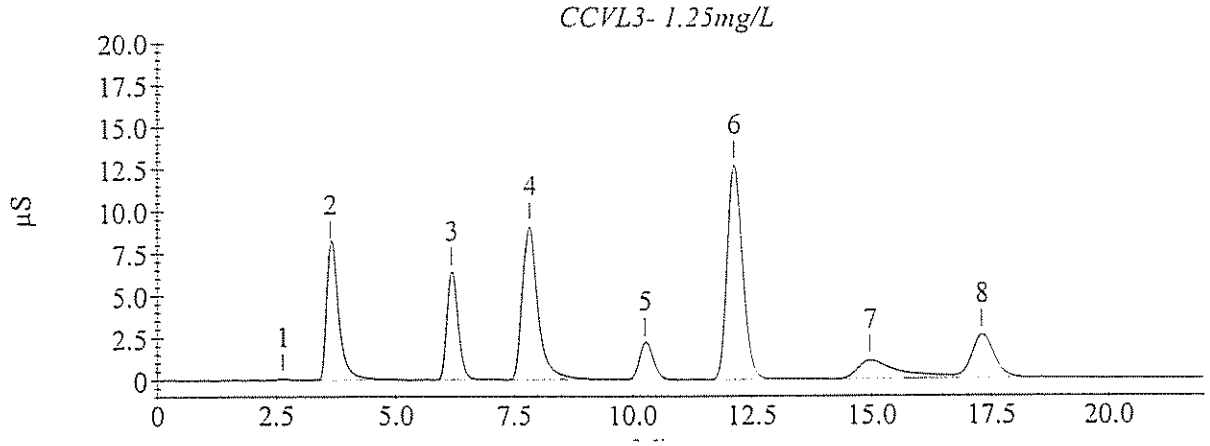
Sample Analysis Report

Sample Name : CCVL3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__036.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/26/09 3:22:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	1.202	1466255	79088
3	Chloride	6.17	1.173	1056950	63500
4	Nitrite-N	7.83	1.159	2102121	90271
5	Bromide	10.27	1.202	451037	21925
6	Nitrate-N	12.13	1.183	2830841	126786
7	Phosphate-P	14.97	1.264	659726	10967
8	Sulfate	17.30	1.188	856783	25674



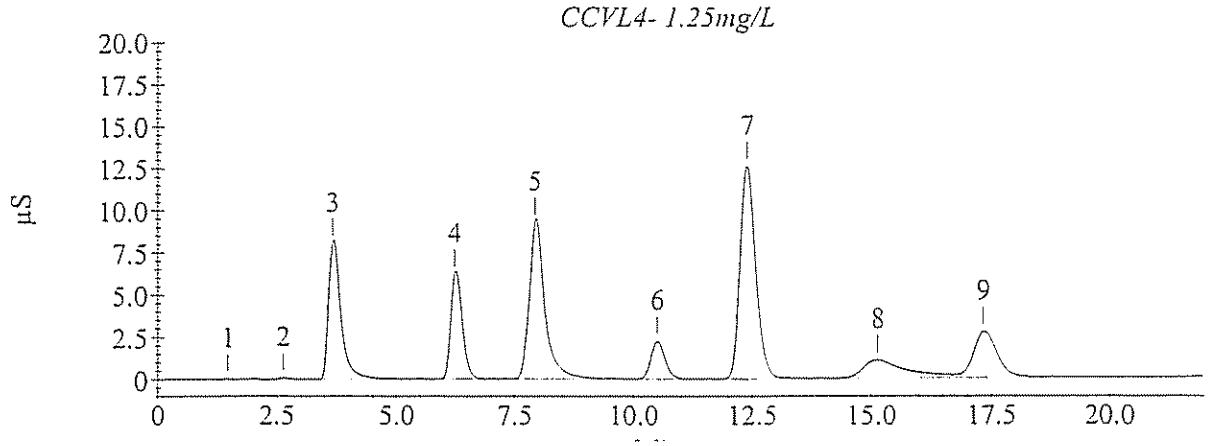
Sample Analysis Report

Sample Name : CCVL4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__045.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/26/09 7:07:30 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
3	Fluoride	3.67	1.216	1482555	80097
4	Chloride	6.23	1.192	1074748	61773
5	Nitrite-N	7.93	1.177	2133223	92425
6	Bromide	10.50	1.221	458040	22080
7	Nitrate-N	12.40	1.201	2874086	125864
8	Phosphate-P	15.13	1.264	660054	10869
9	Sulfate	17.33	1.304	939879	27050



Method Report - 080917H-300-0

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	2.00 min	
Chloride	6.60 min	2.00 min	
Nitrite-N	8.60 min	2.00 min	
Bromide	11.10 min	2.00 min	
Nitrate-N	12.53 min	2.00 min	
Phosphate-P	16.53 min	2.00 min	
Sulfate	18.63 min	2.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.60 min	0	0
Nitrite-N	8.60 min	0	0
Bromide	11.10 min	0	0
Nitrate-N	12.53 min	0	0
Phosphate-P	16.53 min	0	0
Sulfate	18.63 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.60 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.60 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.10 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.53 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.53 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.63 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.19633e+006
2	5.00	6.79909e+006
3	10.00	1.4197e+007
4	15.00	2.23583e+007
5	25.00	3.24666e+007
6	50.00	5.95621e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.17209e+006
2	5.00	4.74491e+006
3	10.00	1.09177e+007
4	15.00	1.81901e+007
5	25.00	3.02302e+007
6	50.00	6.49975e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.50237e+006
2	5.00	9.32687e+006
3	10.00	1.88466e+007
4	15.00	2.84344e+007
5	25.00	4.30083e+007
6	50.00	7.78228e+007

CD20 Component = Bromide Levels Table

Retention Time : 11.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	944915
2	5.00	1.94188e+006
3	10.00	4.22448e+006
4	15.00	6.96738e+006
5	25.00	1.20925e+007
6	50.00	2.71285e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.0797e+006
2	5.00	1.34786e+007
3	10.00	2.97651e+007
4	15.00	4.68262e+007
5	25.00	7.95557e+007
6	50.00	1.68531e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.91979e+006
2	5.00	4.10318e+006
3	10.00	9.26053e+006
4	15.00	1.50936e+007
5	25.00	2.73147e+007
6	50.00	5.84703e+007

CD20 Component = Sulfate Levels Table

Retention Time : 18.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.51196e+006
2	5.00	3.10193e+006
3	10.00	6.7792e+006
4	15.00	1.0794e+007
5	25.00	1.95858e+007
6	50.00	4.20941e+007

CD20 XY Data Parameters

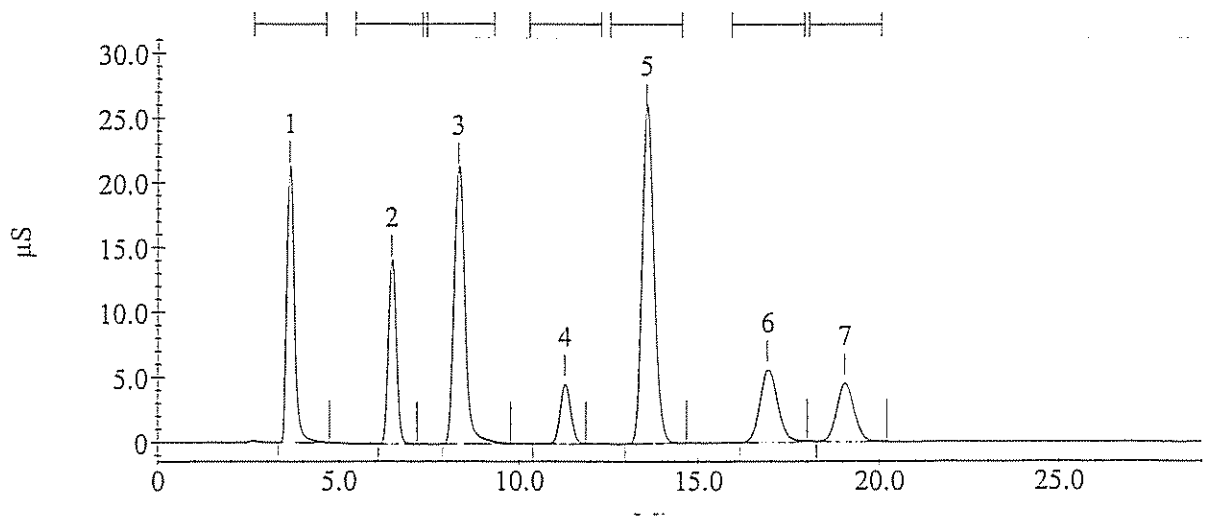
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__009.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:35:27 PM
Calibration Date : 9/18/08 1:45:07 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.63	3490609	3196333	3196333
2	Chloride	6.43	2340736	2172090	2172090
3	Nitrite-N	8.30	4788476	4502370	4502370
4	Bromide	11.27	910060	944915	944915
5	Nitrate-N	13.53	6100255	6079699	6079699
6	Phosphate-P	16.90	1989759	1919795	1919795
7	Sulfate	19.03	1509227	1511958	1511958



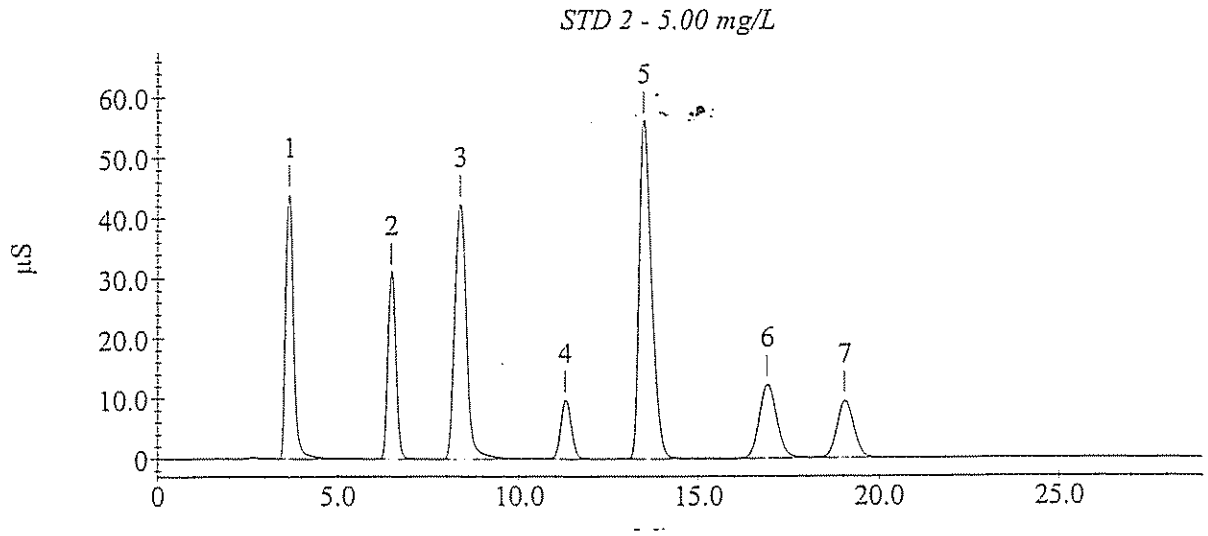
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__010.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:07:45 PM
Calibration Date : 9/18/08 1:46:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	7163728	6799090	6799090
2	Chloride	6.47	4951970	4744908	4744908
3	Nitrite-N	8.37	9622812	9326874	9326874
4	Bromide	11.27	1886735	1941879	1941879
5	Nitrate-N	13.47	13547415	13478598	13478598
6	Phosphate-P	16.90	4333106	4103184	4103184
7	Sulfate	19.03	3220366	3101926	3101926



Calibration Update Report

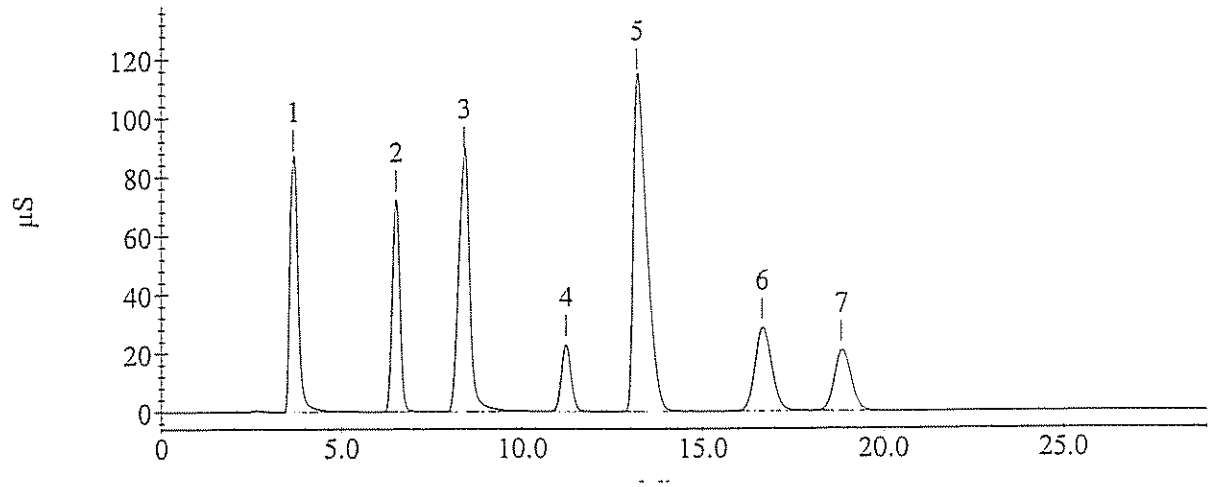
Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__011.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:39:59 PM
Calibration Date : 9/18/08 1:46:56 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	15827968	14197049	14197049
2	Chloride	6.50	12391700	10917702	10917702
3	Nitrite-N	8.40	20828057	18846586	18846586
4	Bromide	11.20	4468055	4224476	4224476
5	Nitrate-N	13.17	32002772	29765135	29765135
6	Phosphate-P	16.63	10155360	9260527	9260527
7	Sulfate	18.83	7254458	6779202	6779202

STD 3 - 10.0 mg/L



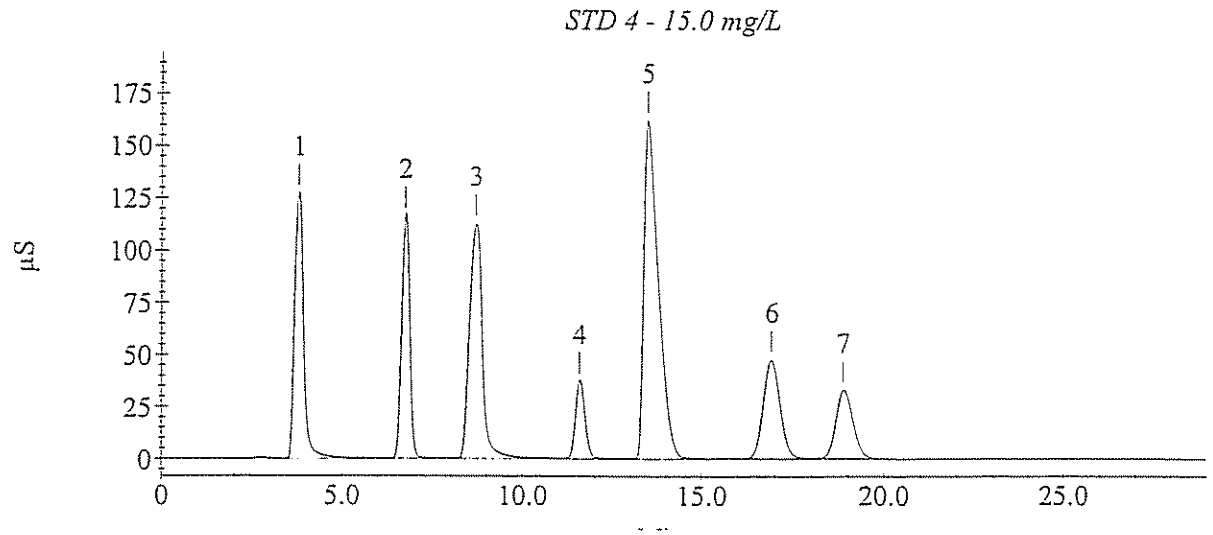
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__012.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:12:14 PM
Calibration Date : 9/18/08 1:55:13 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.80	22029611	22358309	22358309
2	Chloride	6.73	18865697	18190071	18190071
3	Nitrite-N	8.70	29289300	28434383	28434383
4	Bromide	11.57	7016812	6967382	6967382
5	Nitrate-N	13.47	50292581	46826178	46826178
6	Phosphate-P	16.90	16723468	15093639	15093639
7	Sulfate	18.87	11671317	10793955	10793955



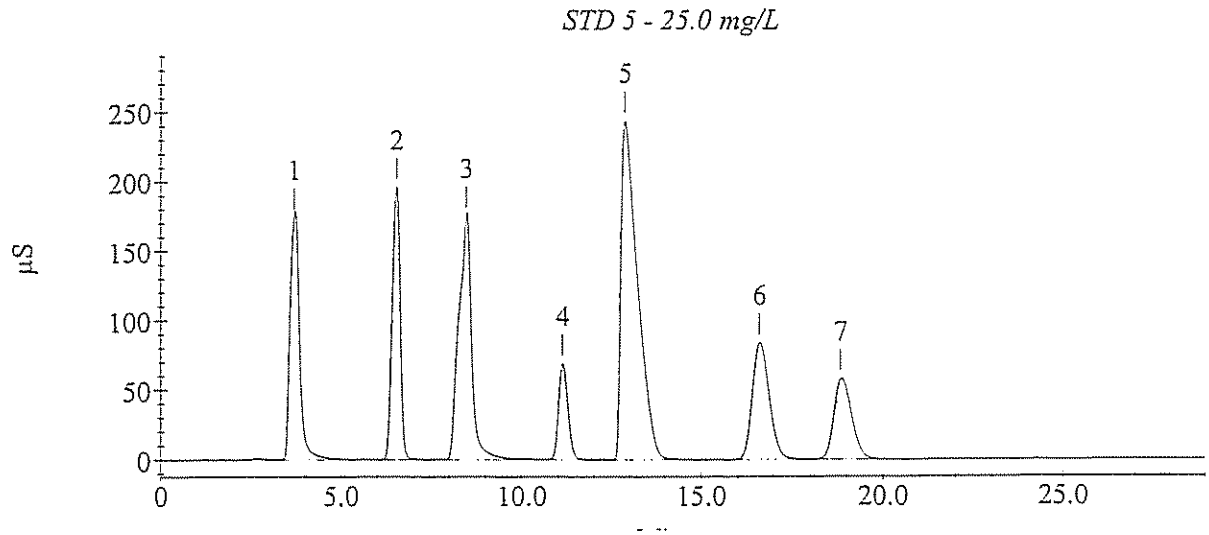
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__013.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:44:30 PM
Calibration Date : 9/18/08 1:55:31 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.70	33007779	32466619	32466619
2	Chloride	6.53	32580429	30230161	30230161
3	Nitrite-N	8.47	44840173	43008339	43008339
4	Bromide	11.13	12419665	12092529	12092529
5	Nitrate-N	12.87	83601485	79555670	79555670
6	Phosphate-P	16.60	28101078	27314683	27314683
7	Sulfate	18.83	19423982	19585760	19585760



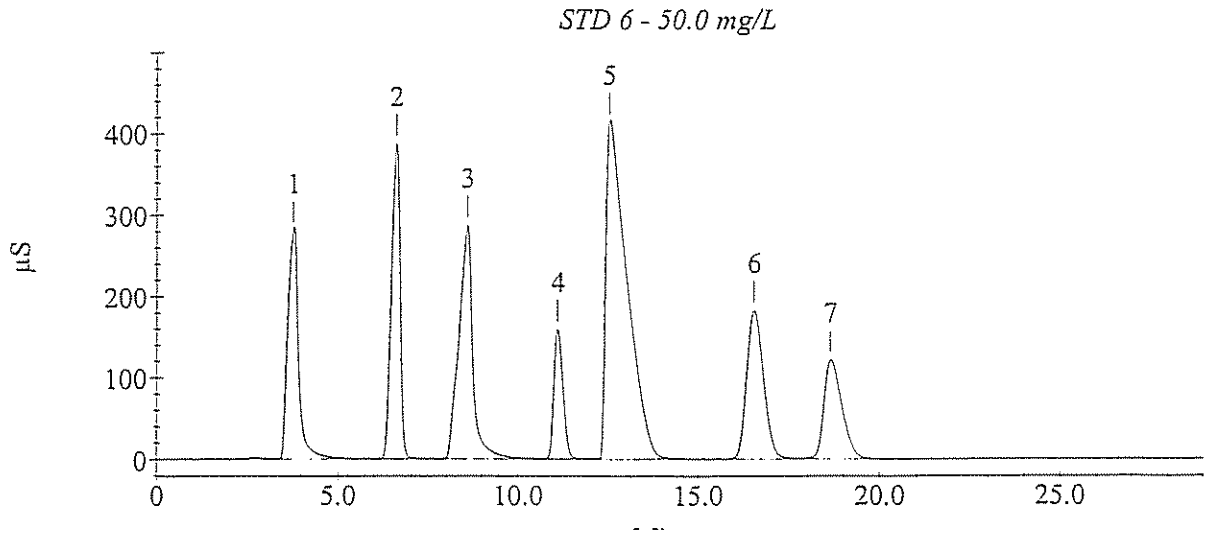
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__014.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 9:16:45 PM
Calibration Date : 9/18/08 1:55:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.77	61202691	59562057	59562057
2	Chloride	6.60	68397328	64997521	64997521
3	Nitrite-N	8.60	78043406	77822760	77822760
4	Bromide	11.10	26985167	27128528	27128528
5	Nitrate-N	12.53	170058779	168531288	168531288
6	Phosphate-P	16.53	60044391	58470285	58470285
7	Sulfate	18.63	41693235	42094125	42094125



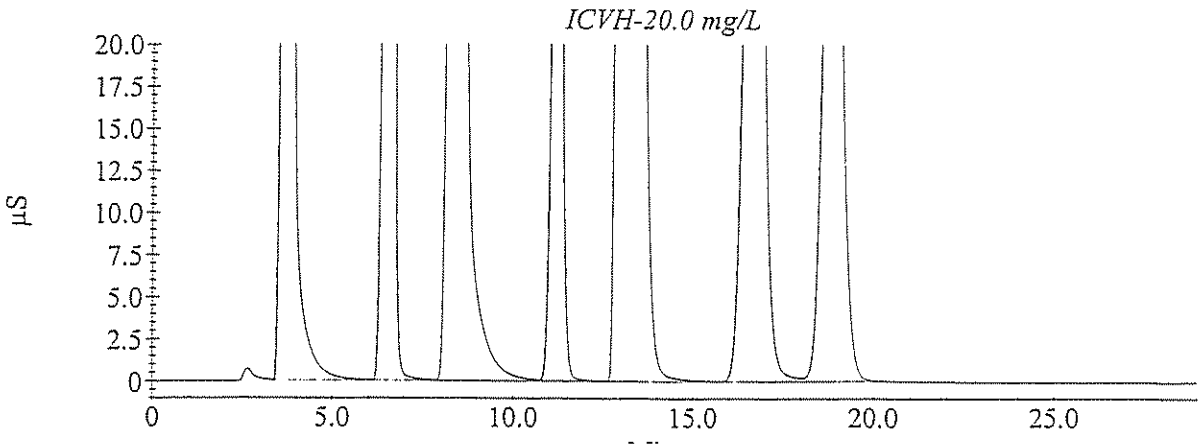
Sample Analysis Report

Sample Name : ICVH-20.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__016.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 9/17/08 10:21:17 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	19.970	27365306	1532443
2	Chloride	6.53	19.882	24486856	1608579
3	Nitrite-N	8.47	22.633	37577280	1419007
4	Bromide	11.17	18.982	9475913	530938
5	Nitrate-N	12.97	19.672	63390755	2049592
6	Phosphate-P	16.60	19.427	21178030	659102
7	Sulfate	18.80	19.274	15149498	460473



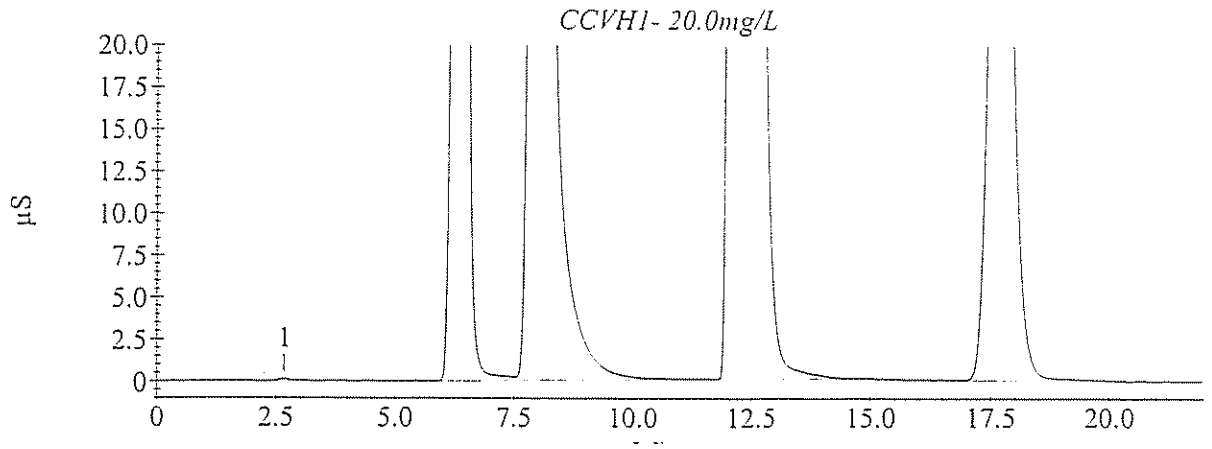
Sample Analysis Report

Sample Name : CCVH1- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090313\090313__008.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/13/09 3:10:58 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	17005	1222
2	Chloride	6.33	20.867	25796665	1605438
3	Nitrite-N Bromide	7.97	22.697	37676700	1583695
4	Nitrate-N Phosphate-P	12.13	20.444	66040469	2197965
5	Sulfate	17.63	19.751	15561663	503147



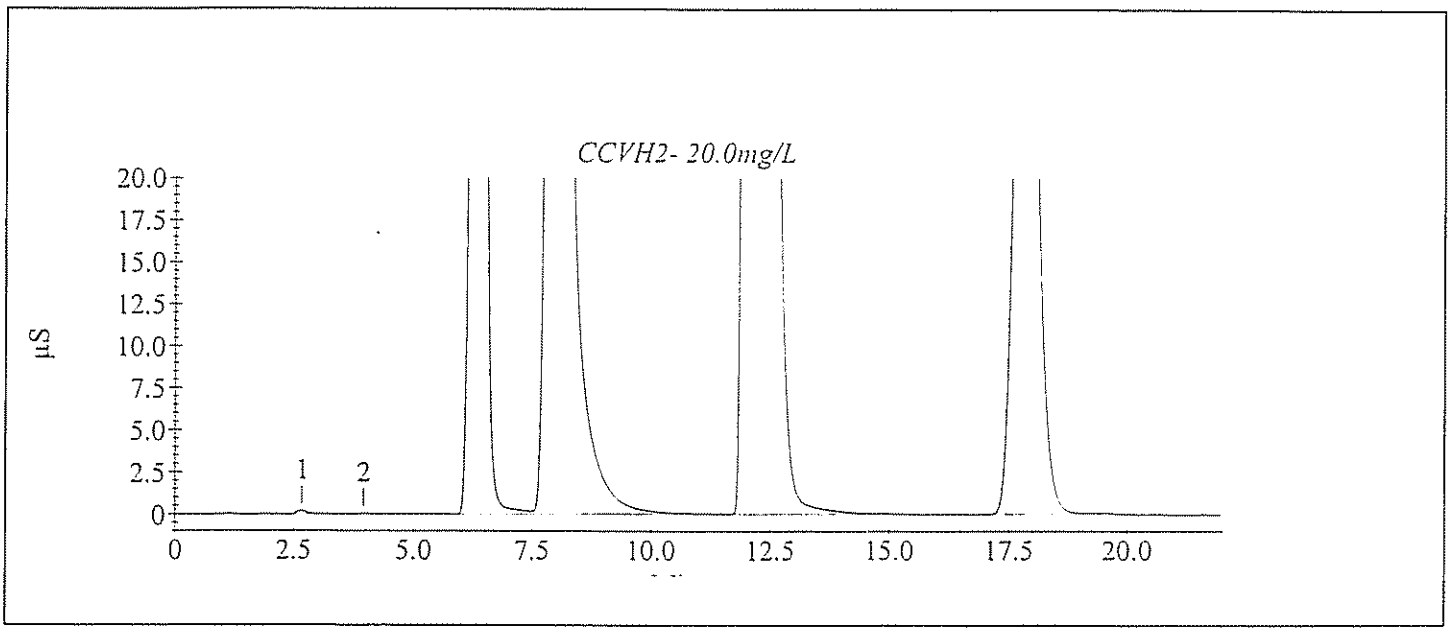
Sample Analysis Report

Sample Name : CCVH2- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090313\090313__021.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/13/09 8:37:40 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.97	0.503	6848	427
3	Chloride	6.33	20.870	25799766	1586628
4	Nitrite-N Bromide	7.97	23.143	38363246	1503739
5	Nitrate-N Phosphate-P	12.07	20.785	67208674	2285647
6	Sulfate	17.80	20.134	15892638	519167



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

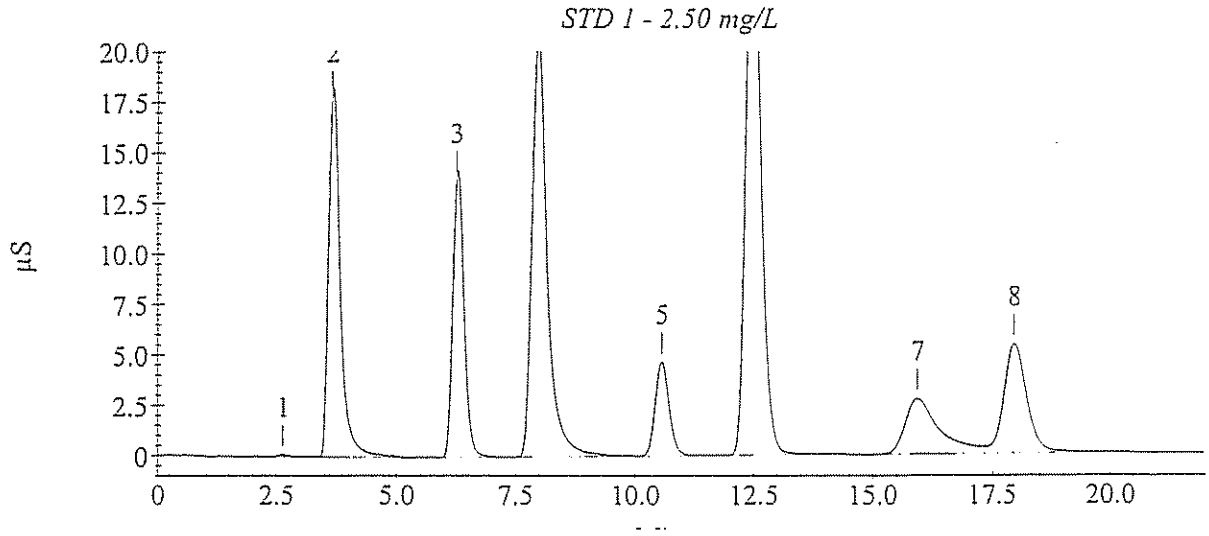
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



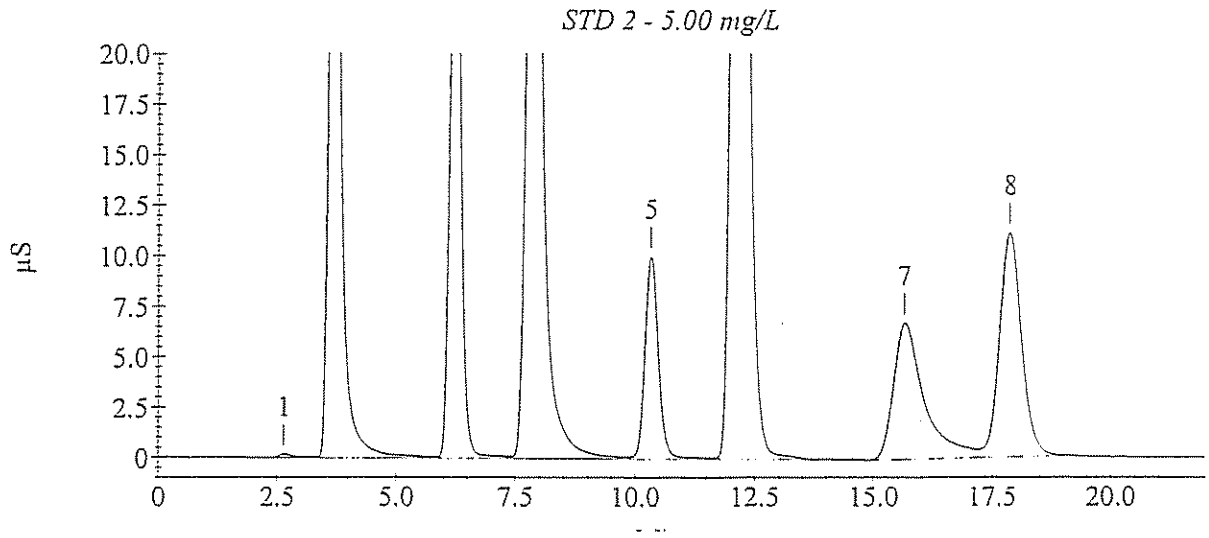
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077



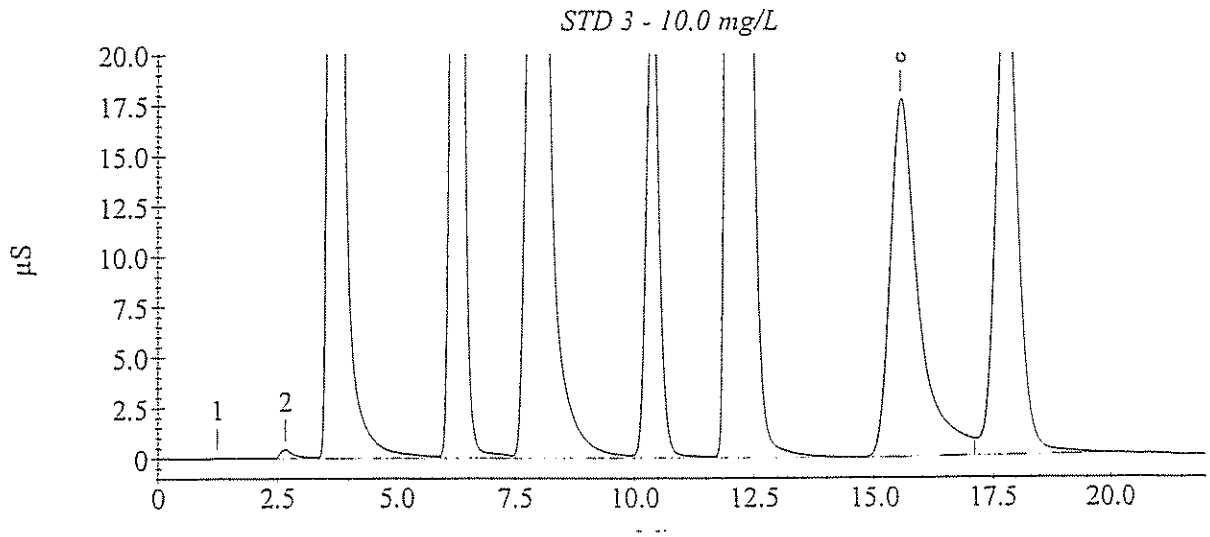
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944



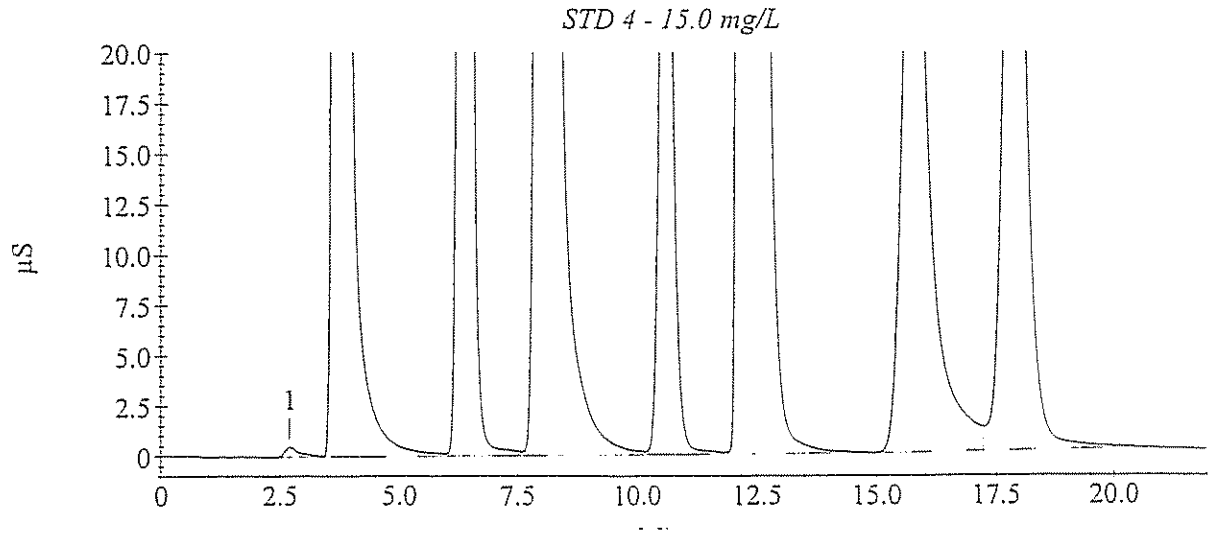
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



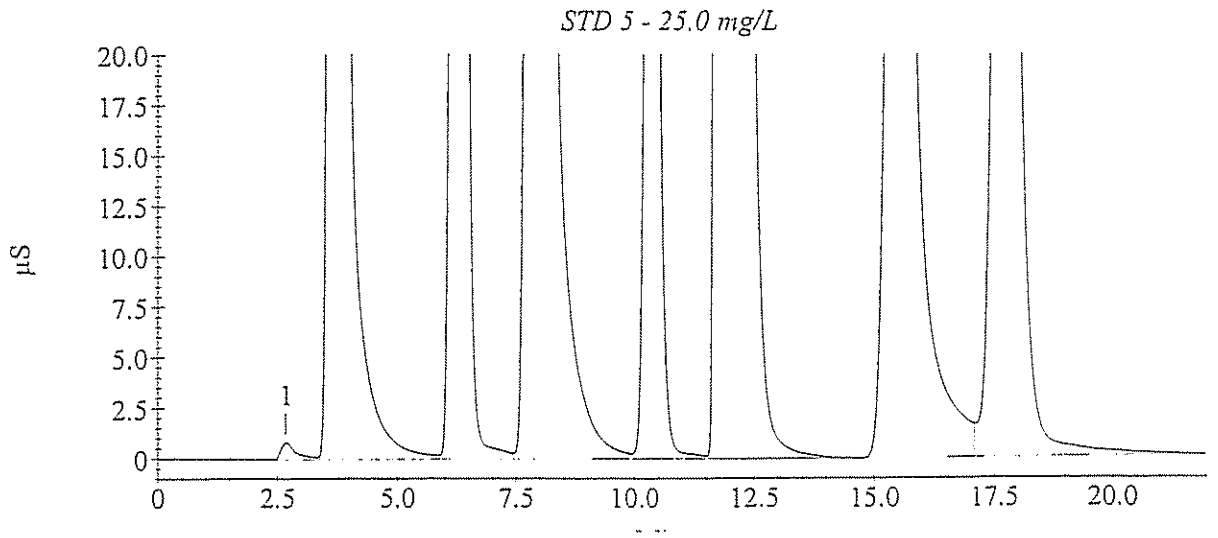
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



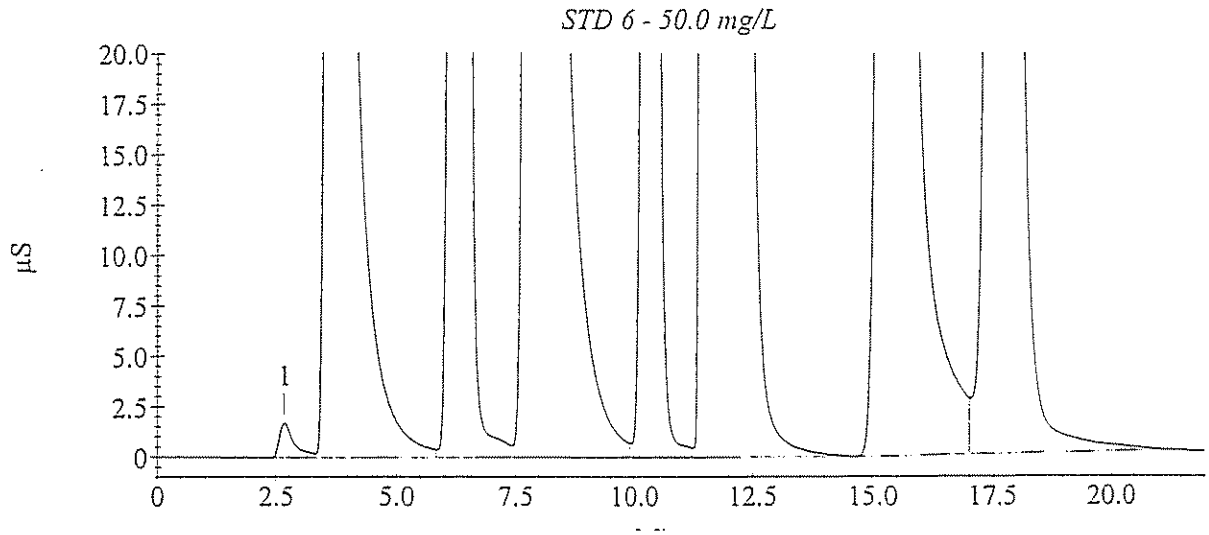
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829



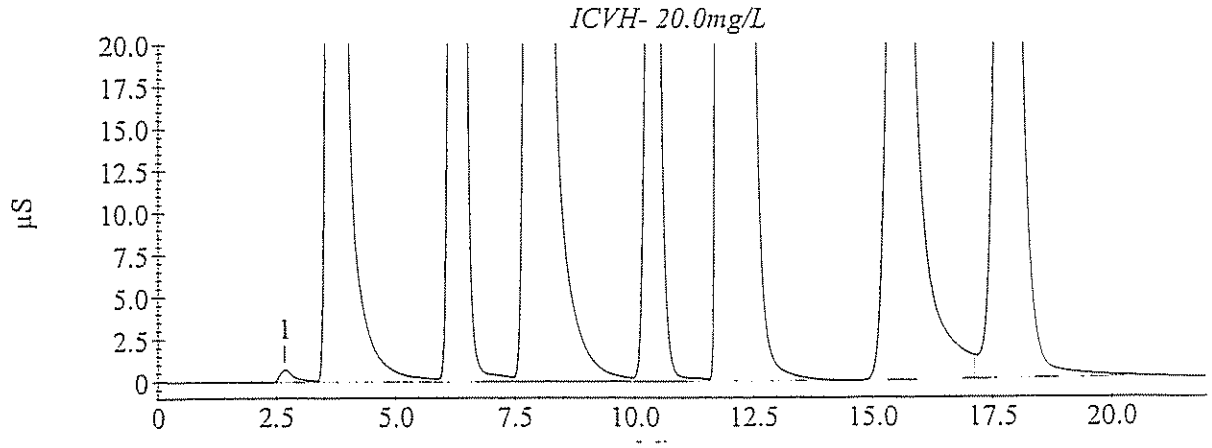
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



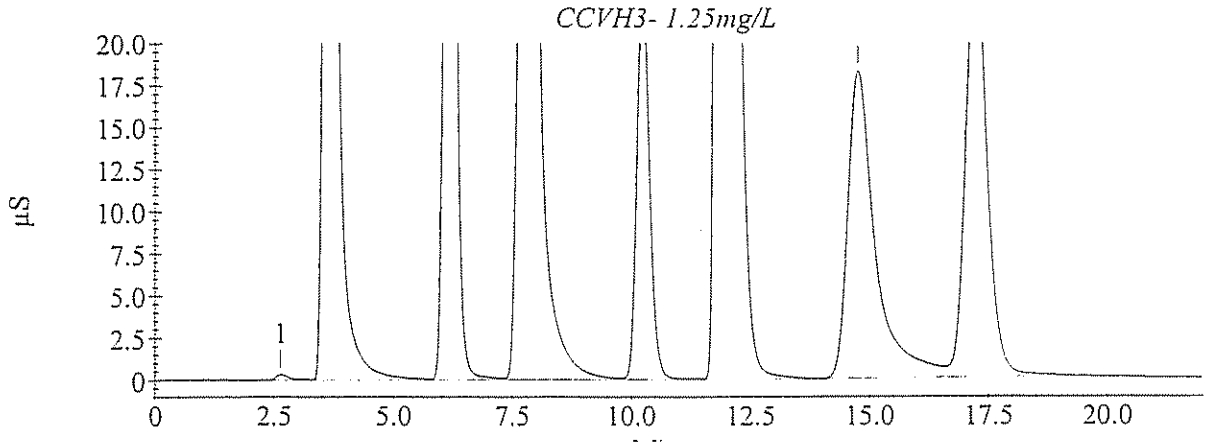
Sample Analysis Report

Sample Name : CCVH3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__037.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 3:47:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	9.671	13912167	763604
3	Chloride	6.17	9.516	11186718	685205
4	Nitrite-N	7.83	12.045	19010762	835902
5	Bromide	10.23	9.404	4306633	228108
6	Nitrate-N	11.90	9.841	30945297	1256793
7	Phosphate-P	14.77	9.517	7318148	182147
8	Sulfate	17.20	9.457	7949216	248531



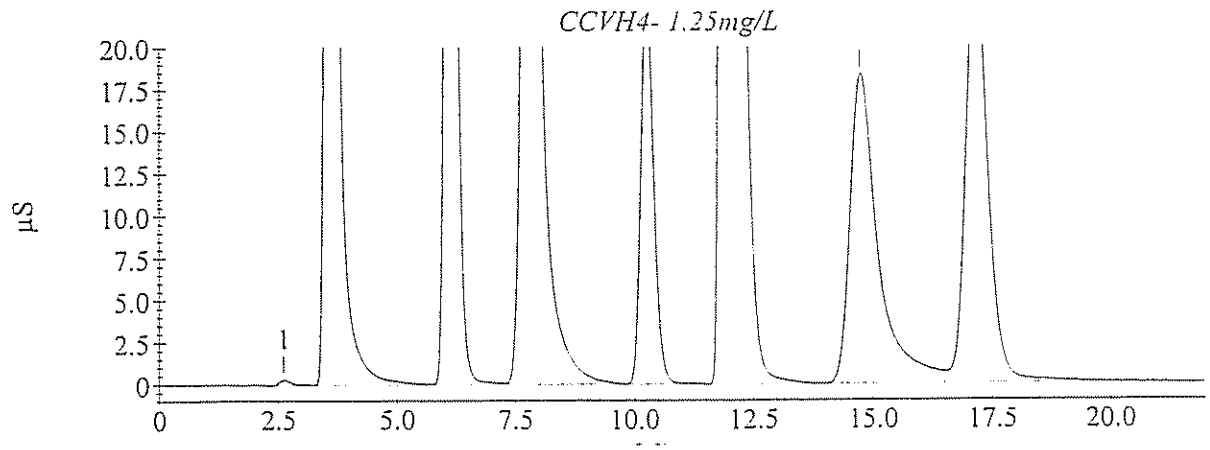
Sample Analysis Report

Sample Name : CCVH4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__046.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 7:32:34 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	9.723	13987121	757655
3	Chloride	6.13	9.562	11251043	691702
4	Nitrite-N	7.80	12.076	19050948	851488
5	Bromide	10.27	9.473	4346222	230035
6	Nitrate-N	11.93	10.008	31535639	1238138
7	Phosphate-P	14.73	9.678	7493663	182812
8	Sulfate	17.13	9.701	8198816	251245



Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903071

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-16MW28-0309	10.3	10.1	1.41	15%
Nitrite-N	E300.0	OU1-16MW28-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-16MW28-0309	1.34	1.36	1.56	15%

RPD - 0 out of 3 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-16MW28-0309	10.3	17.4	10.0	71.1*	90 - 110%
Nitrite-N	E300.0	OU1-16MW28-0309	0.00	1.15	1.00	115*	90 - 110%
Nitrate-N	E300.0	OU1-16MW28-0309	1.339	2.37	1.00	104	90 - 110%

Recovery - 2 out of 3 outside control limits

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC | Client: CH2M Hill

Work-Order # 903071 | STD Solution ID: 45325/45405

3/13/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	Chloride	1.25	1.33	107	90 - 110%
	Nitrite-N	1.25	1.31	105	90 - 110%
	Nitrate-N	1.25	1.23	98.3	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	Chloride	1.25	1.33	107	90 - 110%
	Nitrite-N	1.25	1.31	105	90 - 110%
	Nitrate-N	1.25	1.23	98.6	90 - 110%

3/25/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL3	Chloride	1.25	1.17	93.8	90 - 110%
	Nitrite-N	1.25	1.16	92.7	90 - 110%
	Nitrate-N	1.25	1.18	94.6	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL4	Chloride	1.25	1.19	95.4	90 - 110%
	Nitrite-N	1.25	1.18	94.2	90 - 110%
	Nitrate-N	1.25	1.20	96.1	90 - 110%

3/13/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	Chloride	20.0	20.9	104	90 - 110%
	Nitrate-N	20.0	20.4	102	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	Chloride	20.0	20.9	104	90 - 110%
	Nitrate-N	20.0	20.8	104	90 - 110%

3/25/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	Chloride	10.0	9.52	95.2	90 - 110%
	Nitrate-N	10.0	9.84	98.4	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	Chloride	10.0	9.56	95.6	90 - 110%
	Nitrate-N	10.0	10.0	100	90 - 110%

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #44805/#44035

LCSL (3/14/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	165	104	85 - 115%
Nitrite-N	732	738	101	85 - 115%
Nitrate-N	187	182	97.1	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/14/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	155	98.0	85 - 115%
Nitrate-N	187	186	99.5	85 - 115%

Recovery - 0 out of 2 outside Control Limits

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-020-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/13/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.2	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-021-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/13/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	21	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-018-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/13/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	24	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-019-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/13/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	1.3	
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-019-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-019-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	17	
14797-55-8	Nitrate	2.4	
7727-37-9	Nitrite	1.1	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-022-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/13/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

TOTAL PETROLEUM HYDROCARBON GASOLINE RANGE ORGANICS

GPL Laboratories

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OUI-16GW01-0309MSD

Lab Name : GPL Laboratories SDG NO : 903062 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903062-006-032-1/2MSD Matrix : WATER Analysis Date : 03/20/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	31	31	0.0	30	29	97	94	3	25	80-120
Ethene	29	29	0.0	26	25	90	86	5	25	80-120
Methane	16	16	0.0	16	16	100	100	0	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 0 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108833

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Lab File ID :	G262618.D	SDG NO :	903071
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108833
GC Column :	ID. RTX_VC	Time Analyzed :	07:28

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW30-0309	903071-003-032-1/2	G262630.D	10:56
OU1-16GW30-0309DL	903071-003-033-2/2	G262632.D	11:26
OU1-16GW31-0309	903071-004-034-1/2	G262631.D	11:12
OU1-16GW31-0309DL	903071-004-035-2/2	G262633.D	11:44
OU1-16GW33-0309	903071-001-028-1/2	G262625.D	09:36
OU1-16GW33-0309DL	903071-001-029-2/2	G262627.D	10:10
OU1-16MW28-0309	903071-002-030-1/2	G262626.D	09:55
OU1-S3W3-0309	903071-005-036-1/2	G262634.D	11:59
OU1-S3W3-0309DL	903071-005-037-2/2	G262635.D	12:32

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108833

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108833
Sample Volume :	10	Lab File ID :	G262618.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-032-1/2
Sample Volume :	10	Lab File ID :	G262630.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	910	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-033-2/2
Sample Volume :	.1	Lab File ID :	G262632.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	1500	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-034-1/2
Sample Volume :	10	Lab File ID :	G262631.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	4300	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-035-2/2
Sample Volume :	.02	Lab File ID :	G262633.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	3100	U
74-85-1	Ethene	2900	U
74-82-8	Methane	5800	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-028-1/2
Sample Volume :	10	Lab File ID :	G262625.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3500	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-029-2/2
Sample Volume :	.02	Lab File ID :	G262627.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	3100	U
74-85-1	Ethene	2900	U
74-82-8	Methane	10000	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-030-1/2
Sample Volume :	10	Lab File ID :	G262626.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	8.0	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-036-1/2
Sample Volume :	10	Lab File ID :	G262634.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	300	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-037-2/2
Sample Volume :	.05	Lab File ID :	G262635.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	240	

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009

Calibration Files
1 =G262567.D 2 =G262568.D 10 =G262571.D
5 =G262570.D 4 =G262569.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	1.844	1.715	1.208	1.507	1.544	1.563 E2	15.39
2)	T	Ethane	2.965	2.600	1.796	2.090	2.406	2.371 E1	19.04
3)	T	Ethylene	3.591	3.466	2.153	2.763	2.893	2.973 E1	19.52

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262639.D
Acq On : 24 Mar 2009 13:45
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 23
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	150.482	3.7	100	0.02
2	T	Ethane	23.713	20.545	13.4	98	0.03
3	T	Ethylene	29.730	25.430	14.5	92	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262617.D Vial: 35
Acq On : 24 Mar 2009 6:59 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	143.072	8.5	95	0.02
2	T	Ethane	23.713	21.506	9.3	103	-0.02
3	T	Ethylene	29.730	25.808	13.2	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G262617.D RSK0320.M Tue Mar 24 07:11:21 2009 W28_IOANNIDE Page 1

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262629.D
Acq On : 24 Mar 2009 10:38
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 13
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	162.229	-3.8	108	0.03
2	T	Ethane	23.713	19.327	18.5	92	0.00
3	T	Ethylene	29.730	23.918	19.5	87	0.03

GENERAL CHEMISTRY ANALYSES

GPL Laboratories

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-023-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-024-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-025-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-026-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-027-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903071
Case No.:		SDG NO.:	903071
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903071-001-038-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/13/2009
% Moisture:	ID.	Date Analyzed:	3/25/2009
GC Column:		Dilution factor	3
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	48	
7440-44-0	Total Organic Carbon, Replicate 2	48	
7440-44-0	Total Organic Carbon, Replicate 3	49	
7440-44-0	Total Organic Carbon, Replicate 4	48	
7440-44-0	Total Organic Carbon, Average	48	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903071
Case No.:		SDG NO.:	903071
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903071-002-039-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/13/2009
% Moisture:	ID.	Date Analyzed:	3/25/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.1	
7440-44-0	Total Organic Carbon, Replicate 2	1.1	
7440-44-0	Total Organic Carbon, Replicate 3	1.0	
7440-44-0	Total Organic Carbon, Replicate 4	0.98	J
7440-44-0	Total Organic Carbon, Average	1.0	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903071
Case No.:		SDG NO.:	903071
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903071-003-040-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/13/2009
% Moisture:	ID.	Date Analyzed:	3/25/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	4.6	
7440-44-0	Total Organic Carbon, Replicate 2	4.6	
7440-44-0	Total Organic Carbon, Replicate 3	4.6	
7440-44-0	Total Organic Carbon, Replicate 4	4.6	
7440-44-0	Total Organic Carbon, Average	4.6	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903071
Case No.:		SDG NO.:	903071
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903071-004-041-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/13/2009
% Moisture:	ID.	Date Analyzed:	3/25/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.1	
7440-44-0	Total Organic Carbon, Replicate 2	5.1	
7440-44-0	Total Organic Carbon, Replicate 3	5.2	
7440-44-0	Total Organic Carbon, Replicate 4	5.2	
7440-44-0	Total Organic Carbon, Average	5.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903071
Case No.:		SDG NO.:	903071
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903071-005-042-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/13/2009
% Moisture:	ID.	Date Analyzed:	3/25/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	4.1	
7440-44-0	Total Organic Carbon, Replicate 2	3.7	
7440-44-0	Total Organic Carbon, Replicate 3	3.6	
7440-44-0	Total Organic Carbon, Replicate 4	3.5	
7440-44-0	Total Organic Carbon, Average	3.7	

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903071

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-16GW33-0309	BQL	BQL	N/C	15%

%RPD - 0 out of 1 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-16GW30-0309	4.60	9.85	5.00	105	85 - 115%

% Recovery - 0 out of 1 outside control limits

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903071 STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.40	110	70 - 130%

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC

Client: CH2M Hill

Work-Order # 903071

STD Solution ID: #43278

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	31.9	32.7	103	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	33.1	104	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	32.9	103	90 - 110%

Qualifier Definitions

CH2M Hill Inc

Work Order: 903071

All Departments

U	Indicates that the compound was analyzed for but not detected
BQL	Below Quantitation Limit

Organics

B	Indicates that the analyte was found in the associated blank as well as in the sample
D	Indicates that the analyte was reported from a diluted analysis
E	Indicates that the concentration detected exceeded the calibration range of the instrument
J	Value is less than the reporting limit but greater than the MDL
P	Indicates that there is greater than 25% difference for detected pesticide/Arochlor results between the two GC columns

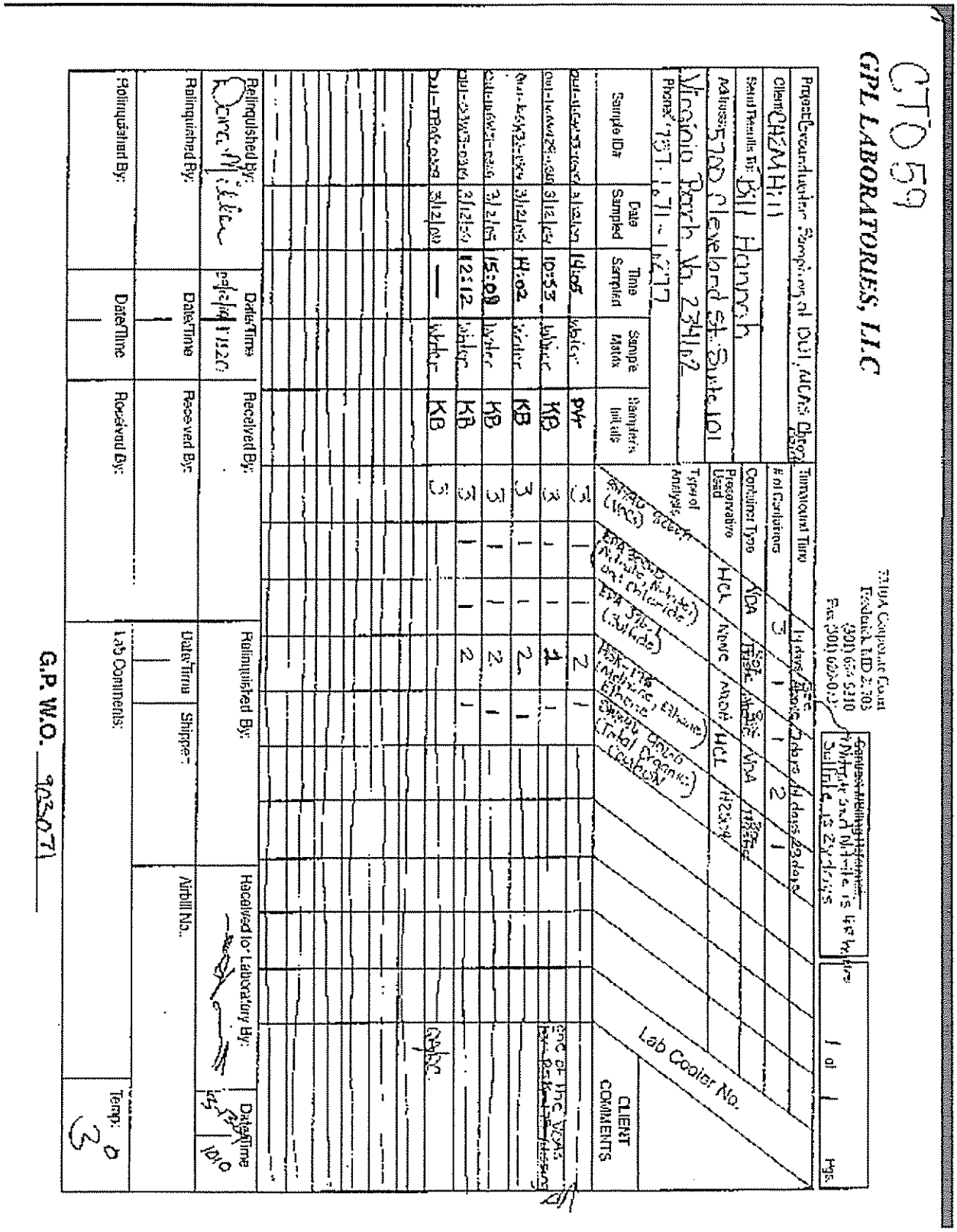
Metals

J	Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL
E	Indicates that the reported value is estimated because of the possible presence of interference (i.e. the serial dilution not within control limits)
H	Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit
D	Indicates that the analyte was reported from a diluted analysis
N	Spiked sample recovery not within control limits
*	Duplicate analysis not within control limits

Chain of Custody

CH2M Hill Inc

SDG: 903071



GPL Laboratories, LLLP

Figure 3

Sample Preservation Check Documentation Form

Work Order: 903071

Parameter / Preservative / pH Value	Metals (*A) -HNO3 <2	Phenol -2SO4 <2	TPH O&G -2SO4 <2	Oxidation Parameters H2SO4 <2	Cyanide, S, Fizz NaOH >12	Radiology (*B) HNO3 <2	Other Preservation Adjustment	Other Reagent Lot #	Add check at for ID TITRATE
GPL ID									
903071-16GW23-0309				✓	✓		Y / N		
903071-16GW28-0309				✓	✓		Y / N		
903071-16GW30-0304				✓	✓		Y / N		
903071-16GW31-0309				✓	✓		Y / N		
903071-16GW33-0309							Y / N		
							Y / N		
							Y / N		
							Y / N		
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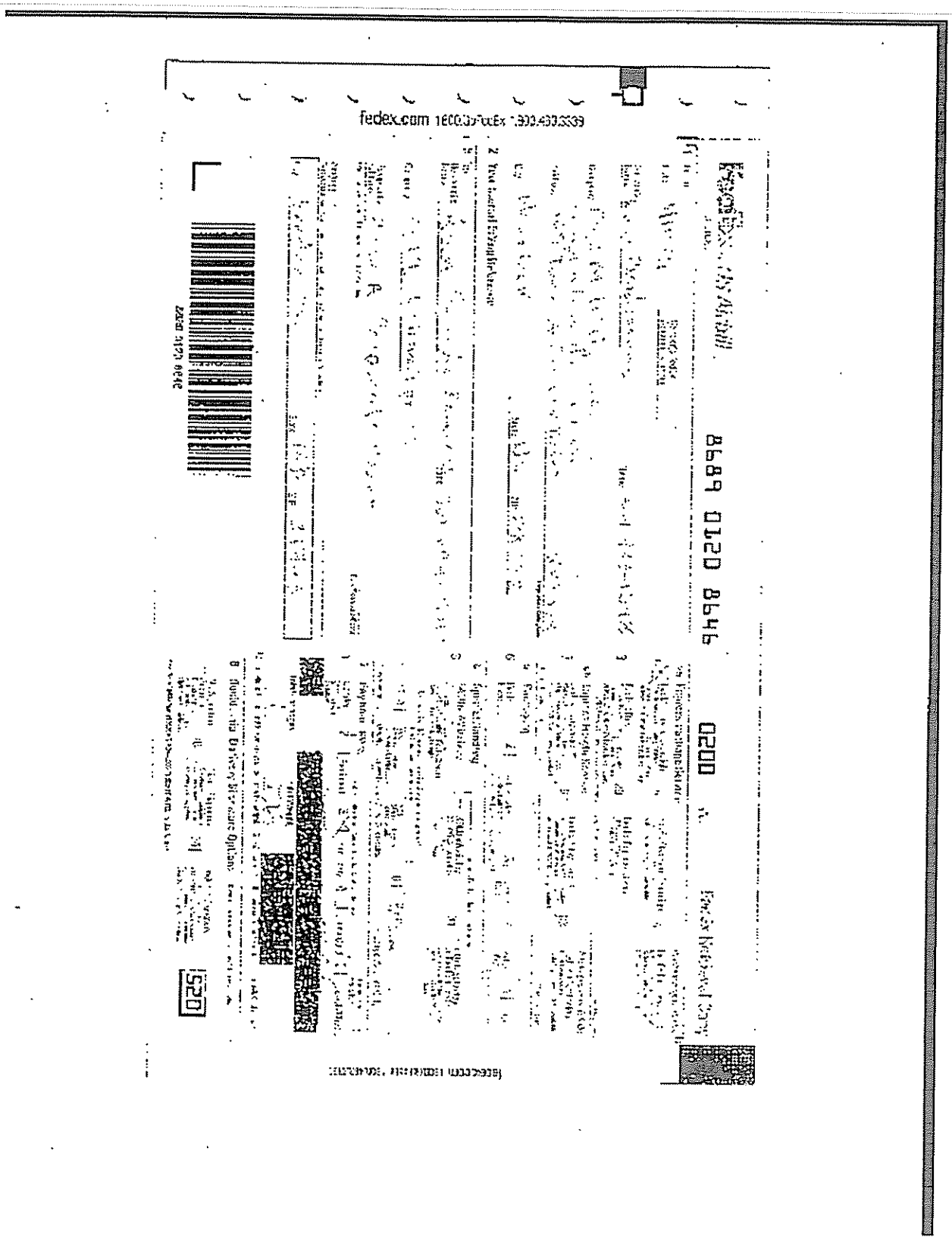
							Y / N		
							Y / N		

(*A): If drinking water metals sample is acidified in the laboratory, the TIME that the samples are acidified MUST be recorded in order to meet the 15 hour hold time requirement.

(*B): If Radiochemistry sample is acidified in the laboratory, the TIME that the samples are acidified MUST be recorded in order to meet the 15 hour hold time requirement. Tritium analysis should NOT be preserved.

Sample Preservation Check Performed By: _____ Date: 3-13-09



GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903071 | Cooler Name: Cooler

Client Name: CH2M Hill | Prepared (Logged In) By: TF | 3-13-09

Date Received: 3-13-09 | Project:

Time Received: 1010 | Site:

Received By: Travis | VOA Holding Blank ID No:

	YES	NO
Air Bill/Manifest Present?	✓	
No: 8697 6120 8246		
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?	✓	
Condition: Good ✓ Broken		
Chain of Custody Present?	✓	
Chain of Custody Agrees with Sample Labels?	✓	
Chain of Custody Signed?	✓	
Packing Present in Shipping Container?	✓	
Type of Packing Bubble wrap		
Custody Seals on Sample Bottles?	✓	
Condition: Good ✓ Broken		
Total Number of Sample Bottles 42	✓	
Total Number of Samples 6	✓	
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks Received?	✓	
No. of Sets 1		
VOA Vials Have Zero Headspace?		✓
Preservatives Added to Samples?	✓	
pH Check Required?	✓	
Performed By: TF		
Ice Present in Shipping Container?	✓	

Container #	Temperature
1	3°

Project Manager Contacted?

Name: Gretchen

Date Contacted: 3-13-09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: ONE VIAL FOR VOA HAD LOOSE CAP. WILL BE ABLE TO RUN ALL ANALYSIS FOR VOA WITH THE TWO REMAINING VIALS.

Checklist Completed By: TF

Date: 3-13-09

VOLATILE ORGANICS

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903071

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108792	105	101	103	131
BLK108792	96	93	100	109
OU1-16GW33-0309	94	95	99	111
OU1-16MW28-0309	94	96	102	113

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903071

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108803	99	117	107	114
BLK108803	96	111	105	107
OU1-S3W3-0309	97	114	99	114
OU1-TB05-0309	95	114	103	114

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903071

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108804	103	95	105	119
BLK108804	94	96	105	110
OU1-16GW30-0309	92	95	97	111
OU1-16GW31-0309	99	94	103	116

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
MW8S0309MSD

Lab Name : GPL Laboratories SDG NO : 903080 Method : SW8260B

Lab Code : GPL Lab Sample ID : 903080-004-034-1/6MSD Matrix : WATER Analysis Date : 03/24/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1-Trichloroethane	50	50	0.0	68	59	134 *	118	13	30	65-130
1,1,2,2-Tetrachloroethane	50	50	0.0	52	52	104	104	0	30	65-130
1,1,2-Trichloroethane	50	50	0.0	67	60	134 *	120	11	30	75-125
1,1-Dichloroethane	50	50	0.0	64	56	128	112	13	30	70-135
1,1-Dichloroethene	50	50	0.0	59	54	118	108	9	30	70-130
1,2,4-Trichlorobenzene	50	50	0.0	61	60	122	120	2	30	65-135
1,2-Dibromo-3-Chloropropane	50	50	0.0	48	53	96	106	10	30	50-130
1,2-Dichlorobenzene	50	50	0.0	63	58	126 *	116	8	30	70-120
1,2-Dichloroethane	50	50	0.0	54	48	108	96	12	30	70-130
1,2-Dichloropropane	50	50	0.0	54	50	108	100	8	30	75-125
1,3-Dichlorobenzene	50	50	0.0	67	61	134 *	122	9	30	75-125
1,4-Dichlorobenzene	50	50	0.0	66	61	132 *	122	8	30	75-125
2-Butanone	100	100	0.0	90	90	90	90	0	30	30-150
2-Hexanone	100	100	0.0	87	92	87	92	6	30	55-130
4-Methyl-2-Pentanone	100	100	0.0	93	97	92	97	5	30	60-135
Acetone	100	100	0.0	75	80	74	80	8	30	40-140
Benzene	50	50	0.0	56	47	112	94	17	30	80-120
Bromodichloromethane	50	50	0.0	66	48	132 *	96	32 *	30	75-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 2 Out of 49 Outside Limit
Spike Recovery : 16 Out of 98 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
MW8S0309MSD

Lab Name : GPL Laboratories SDG NO : 903080 Method : SW8260B

Lab Code : GPL Lab Sample ID : 903080-004-034-1/6MSD Matrix : WATER Analysis Date : 03/24/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Bromoform	50	50	0.0	59	57	118	114	3	30	70-130
Bromomethane	50	50	0.0	140	130	280 *	260 *	7	30	30-145
Carbon Disulfide	50	50	0.0	50	42	100	84	17	30	35-160
Carbon Tetrachloride	50	50	0.0	75	66	150 *	132	13	30	65-140
Chlorobenzene	50	50	0.0	60	53	120	106	12	30	80-120
Chloroethane	50	50	0.0	52	96	104	192 *	59 *	30	60-135
Chloroform	50	50	0.0	62	56	124	110	12	30	65-135
Chloromethane	50	50	0.0	45	45	90	90	0	30	70-125
Cyclohexane	50	50	0.0	63	52	126 *	104	19	30	50-120
Dibromochloromethane	50	50	0.0	57	52	114	104	9	30	64-154
Dichlorodifluoromethane	50	50	0.0	47	44	94	88	7	30	30-155
Ethylbenzene	50	50	0.0	57	50	114	100	13	30	75-125
Ethylene DiBromide	50	50	0.0	52	49	104	98	6	30	80-120
Freon 113	50	50	0.0	81	74	162 *	148 *	9	30	70-130
Isopropylbenzene	50	50	0.0	63	54	126 *	108	15	30	75-125
Methyl Acetate	50	50	0.0	43	55	86	110	24	30	70-121
Methylcyclohexane	50	50	0.0	70	62	140 *	124	12	30	75-125
Methylene Chloride	50	50	0.0	54	44	108	88	20	30	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 2 Out of 49 Outside Limit
Spike Recovery : 16 Out of 98 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
MW8S0309MSD

Lab Name : GPL Laboratories SDG NO : 903080 Method : SW8260B

Lab Code : GPL Lab Sample ID : 903080-004-034-1/6MSD Matrix : WATER Analysis Date : 03/24/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Styrene	50	50	0.0	57	50	114	100	13	30	65-135
Tetrachloroethylene	50	50	0.0	70	59	140	118	17	30	45-150
Toluene	50	50	0.0	71	60	142 *	120	17	30	75-120
Trichloroethene	50	50	0.0	57	48	114	96	17	30	70-125
Trichlorofluoromethane	50	50	0.0	59	56	118	112	5	30	60-145
Vinyl Chloride	50	50	0.0	47	42	94	84	11	30	50-145
cis-1,2-Dichloroethene	50	50	0.0	57	49	114	98	15	30	70-125
cis-1,3-Dichloropropene	50	50	0.0	63	57	126	114	10	30	70-130
m,p-Xylene	100	100	0.0	120	110	120	110	9	30	75-130
o-Xylene	50	50	0.0	58	50	116	100	15	30	80-120
tert-butyl methyl ether	50	50	0.0	60	58	120	116	3	30	65-125
trans-1,2-dichloroethene	50	50	0.0	59	52	118	104	13	30	60-140
trans-1,3-dichloropropene	50	50	0.0	59	58	118	116	2	30	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 2 Out of 49 Outside Limit
Spike Recovery : 16 Out of 98 outside limit

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108792

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108792
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	53	106	80-130
1,1,1-Trichloroethane	50	0	59	118	65-130
1,1,2,2-Tetrachloroethane	50	0	48	96	65-130
1,1,2-Trichloroethane	50	0	50	100	75-125
1,1-Dichloroethane	50	0	61	122	70-135
1,1-Dichloroethene	50	0	53	106	70-130
1,1-Dichloropropene	50	0	53	106	75-130
1,2,3-Trichlorobenzene	50	0	71	142 *	55-140
1,2,3-Trichloropropane	50	0	53	106	75-125
1,2,4-Trichlorobenzene	50	0	72	144 *	65-135
1,2,4-Trimethylbenzene	50	0	57	114	75-130
1,2-Dibromo-3-Chloropropane	50	0	52	104	50-130
1,2-Dichlorobenzene	50	0	67	134 *	70-120
1,2-Dichloroethane	50	0	52	104	70-130
1,2-Dichloropropane	50	0	50	100	75-125
1,3,5-trimethylbenzene	50	0	58	116	75-130
1,3-Dichlorobenzene	50	0	65	130 *	75-125
1,3-Dichloropropane	50	0	41	82	75-125
1,4-Dichlorobenzene	50	0	64	128 *	75-125
2,2-Dichloropropane	50	0	53	106	70-135
2-Butanone	100	0	110	110	30-150
2-Chlorotoluene	50	0	63	126 *	75-125
2-Hexanone	100	0	76	76	55-130
4-Chlorotoluene	50	0	60	120	75-130
4-Isopropyltoluene	50	0	65	130	75-130

* Values Outside of QC Limits.

Spike recovery : 6 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108792

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108792
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	71	71	60-135
Acetone	100	0	130	130	40-140
Benzene	50	0	48	96	80-120
Bromobenzene	50	0	63	126 *	75-125
Bromochloromethane	50	0	59	118	65-130
Bromodichloromethane	50	0	51	102	75-120
Bromoform	50	0	47	94	70-130
Bromomethane	50	0	58	116	30-145
Carbon Disulfide	50	0	49	98	35-160
Carbon Tetrachloride	50	0	56	112	65-140
Chlorobenzene	50	0	55	110	80-120
Chloroethane	50	0	44	88	60-135
Chloroform	50	0	55	110	65-135
Chloromethane	50	0	53	106	40-125
Cyclohexane	50	0	47	94	50-120
Dibromochloromethane	50	0	51	102	60-135
Dibromomethane	50	0	56	112	75-125
Dichlorodifluoromethane	50	0	43	86	30-155
Ethylbenzene	50	0	51	102	75-125
Ethylene DiBromide	50	0	49	98	80-120
Freon 113	50	0	56	112	70-130
Hexachlorobutadiene	50	0	68	136	50-140
Isopropylbenzene	50	0	57	114	75-125
Methyl Acetate	50	0	60	120	50-120
Methylcyclohexane	50	0	48	96	50-120

* Values Outside of QC Limits.

Spike recovery : 1 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108792

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108792
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	52	104	55-140
Naphthalene	50	0	62	124	55-140
Sec-Butylbenzene	50	0	59	118	70-125
Styrene	50	0	53	106	65-135
Tetrachloroethylene	50	0	59	118	45-150
Toluene	50	0	56	112	75-120
Trichloroethene	50	0	51	102	70-125
Trichlorofluoromethane	50	0	58	116	60-145
Vinyl Acetate	50	0	4.8	10 *	41-139
Vinyl Chloride	50	0	45	90	50-145
cis-1,2-Dichloroethene	50	0	54	108	70-125
cis-1,3-Dichloropropene	50	0	42	84	70-130
m,p-Xylene	100	0	110	110	75-130
n-Butylbenzene	50	0	59	118	70-135
n-Propylbenzene	50	0	56	112	70-130
o-Xylene	50	0	55	110	80-120
tert-Butylbenzene	50	0	62	124	70-130
tert-butyl methyl ether	50	0	57	114	65-125
trans-1,2-dichloroethene	50	0	54	108	60-140
trans-1,3-dichloropropene	50	0	47	94	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108803

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108803
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	59	118	80-130
1,1,1-Trichloroethane	50	0	60	120	65-130
1,1,2,2-Tetrachloroethane	50	0	50	100	65-130
1,1,2-Trichloroethane	50	0	63	126 *	75-125
1,1-Dichloroethane	50	0	58	116	70-135
1,1-Dichloroethene	50	0	52	104	70-130
1,1-Dichloropropene	50	0	52	104	75-130
1,2,3-Trichlorobenzene	50	0	60	120	55-140
1,2,3-Trichloropropane	50	0	52	104	75-125
1,2,4-Trichlorobenzene	50	0	59	118	65-135
1,2,4-Trimethylbenzene	50	0	56	112	75-130
1,2-Dibromo-3-Chloropropane	50	0	45	90	50-130
1,2-Dichlorobenzene	50	0	60	120	70-120
1,2-Dichloroethane	50	0	53	106	70-130
1,2-Dichloropropane	50	0	52	104	75-125
1,3,5-trimethylbenzene	50	0	55	110	75-130
1,3-Dichlorobenzene	50	0	62	124	75-125
1,3-Dichloropropane	50	0	51	102	75-125
1,4-Dichlorobenzene	50	0	62	124	75-125
2,2-Dichloropropane	50	0	56	112	70-135
2-Butanone	100	0	90	90	30-150
2-Chlorotoluene	50	0	58	116	75-125
2-Hexanone	100	0	87	87	55-130
4-Chlorotoluene	50	0	59	118	75-130
4-Isopropyltoluene	50	0	63	126	75-130

* Values Outside of QC Limits.

Spike recovery : 1 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108803

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108803
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	90	90	60-135
Acetone	100	0	87	87	40-140
Benzene	50	0	50	100	80-120
Bromobenzene	50	0	62	124	75-125
Bromochloromethane	50	0	67	134 *	65-130
Bromodichloromethane	50	0	62	124 *	75-120
Bromoform	50	0	57	114	70-130
Bromomethane	50	0	120	240 *	30-145
Carbon Disulfide	50	0	45	90	35-160
Carbon Tetrachloride	50	0	63	126	65-140
Chlorobenzene	50	0	55	110	80-120
Chloroethane	50	0	69	138 *	60-135
Chloroform	50	0	58	116	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	45	90	50-120
Dibromochloromethane	50	0	55	110	60-135
Dibromomethane	50	0	52	104	75-125
Dichlorodifluoromethane	50	0	41	82	30-155
Ethylbenzene	50	0	52	104	75-125
Ethylene DiBromide	50	0	52	104	80-120
Freon 113	50	0	56	112	70-130
Hexachlorobutadiene	50	0	63	126	50-140
Isopropylbenzene	50	0	55	110	75-125
Methyl Acetate	50	0	42	84	50-120
Methylcyclohexane	50	0	48	96	50-120

* Values Outside of QC Limits.

Spike recovery : 4 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108803

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108803
Analysis Date : 03/24/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	50	100	55-140
Naphthalene	50	0	54	108	55-140
Sec-Butylbenzene	50	0	57	114	70-125
Styrene	50	0	53	106	65-135
Tetrachloroethylene	50	0	61	122	45-150
Toluene	50	0	64	128 *	75-120
Trichloroethene	50	0	49	98	70-125
Trichlorofluoromethane	50	0	51	102	60-145
Vinyl Acetate	50	0	39	78	41-139
Vinyl Chloride	50	0	43	86	50-145
cis-1,2-Dichloroethene	50	0	51	102	70-125
cis-1,3-Dichloropropene	50	0	62	124	70-130
m,p-Xylene	100	0	110	110	75-130
n-Butylbenzene	50	0	55	110	70-135
n-Propylbenzene	50	0	53	106	70-130
o-Xylene	50	0	53	106	80-120
tert-Butylbenzene	50	0	59	118	70-130
tert-butyl methyl ether	50	0	59	118	65-125
trans-1,2-dichloroethene	50	0	55	110	60-140
trans-1,3-dichloropropene	50	0	60	120	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108804

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108804
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	49	98	80-130
1,1,1-Trichloroethane	50	0	56	112	65-130
1,1,2,2-Tetrachloroethane	50	0	45	90	65-130
1,1,2-Trichloroethane	50	0	45	90	75-125
1,1-Dichloroethane	50	0	53	106	70-135
1,1-Dichloroethene	50	0	51	102	70-130
1,1-Dichloropropene	50	0	49	98	75-130
1,2,3-Trichlorobenzene	50	0	56	112	55-140
1,2,3-Trichloropropane	50	0	47	94	75-125
1,2,4-Trichlorobenzene	50	0	56	112	65-135
1,2,4-Trimethylbenzene	50	0	49	98	75-130
1,2-Dibromo-3-Chloropropane	50	0	44	88	50-130
1,2-Dichlorobenzene	50	0	57	114	70-120
1,2-Dichloroethane	50	0	47	94	70-130
1,2-Dichloropropane	50	0	44	88	75-125
1,3,5-trimethylbenzene	50	0	50	100	75-130
1,3-Dichlorobenzene	50	0	56	112	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	56	112	75-125
2,2-Dichloropropane	50	0	56	112	70-135
2-Butanone	100	0	100	100	30-150
2-Chlorotoluene	50	0	56	112	75-125
2-Hexanone	100	0	75	75	55-130
4-Chlorotoluene	50	0	54	108	75-130
4-Isopropyltoluene	50	0	54	108	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108804

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108804
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	67	67	60-135
Acetone	100	0	110	110	40-140
Benzene	50	0	44	88	80-120
Bromobenzene	50	0	55	110	75-125
Bromochloromethane	50	0	58	116	65-130
Bromodichloromethane	50	0	46	92	75-120
Bromoform	50	0	47	94	70-130
Bromomethane	50	0	74	148 *	30-145
Carbon Disulfide	50	0	51	102	35-160
Carbon Tetrachloride	50	0	56	112	65-140
Chlorobenzene	50	0	51	102	80-120
Chloroethane	50	0	49	98	60-135
Chloroform	50	0	51	102	65-135
Chloromethane	50	0	69	138 *	40-125
Cyclohexane	50	0	46	92	50-120
Dibromochloromethane	50	0	50	100	60-135
Dibromomethane	50	0	49	98	75-125
Dichlorodifluoromethane	50	0	43	86	30-155
Ethylbenzene	50	0	47	94	75-125
Ethylene DiBromide	50	0	48	96	80-120
Freon 113	50	0	56	112	70-130
Hexachlorobutadiene	50	0	52	104	50-140
Isopropylbenzene	50	0	50	100	75-125
Methyl Acetate	50	0	69	138 *	50-120
Methylcyclohexane	50	0	47	94	50-120

* Values Outside of QC Limits.

Spike recovery : 3 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108804

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903071
Lab Sample ID : BKS108804
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	51	102	55-140
Naphthalene	50	0	50	100	55-140
Sec-Butylbenzene	50	0	50	100	70-125
Styrene	50	0	49	98	65-135
Tetrachloroethylene	50	0	50	100	45-150
Toluene	50	0	53	106	75-120
Trichloroethene	50	0	44	88	70-125
Trichlorofluoromethane	50	0	65	130	60-145
Vinyl Acetate	50	0	160	320 *	41-139
Vinyl Chloride	50	0	47	94	50-145
cis-1,2-Dichloroethene	50	0	51	102	70-125
cis-1,3-Dichloropropene	50	0	40	80	70-130
m,p-Xylene	100	0	98	98	75-130
n-Butylbenzene	50	0	48	96	70-135
n-Propylbenzene	50	0	49	98	70-130
o-Xylene	50	0	50	100	80-120
tert-Butylbenzene	50	0	52	104	70-130
tert-butyl methyl ether	50	0	54	108	65-125
trans-1,2-dichloroethene	50	0	54	108	60-140
trans-1,3-dichloropropene	50	0	46	92	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Lab File ID :	A62476.D	SDG NO :	903071
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108792
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:26

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108792	BKS108792	A62474.D	10:46
OU1-16GW33-0309	903071-001-013-1/3	A62494.D	18:38
OU1-16MW28-0309	903071-002-016-1/2	A62496.D	19:19

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Lab File ID :	A62475.D	SDG NO :	903071
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108803
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:06

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108803	BKS108803	A62473.D	10:25
OU1-S3W3-0309	903071-005-007-1/3	A62493.D	18:17
OU1-TB05-0309	903071-006-010-1/3	A62495.D	18:58

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Lab File ID :	A62510.D	SDG NO :	903071
Date Analyzed	03/25/2009	Lab Sample ID :	BLK108804
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	12:40

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108804	BKS108804	A62508.D	11:47
OU1-16GW30-0309	903071-003-001-1/3	A62516.D	14:41
OU1-16GW31-0309	903071-004-004-1/3	A62518.D	15:34

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : General Physics Corp.

Lab Code: GPL Case No: N/A SAS No: N/A SDG No : 903020

Lab File ID: A62205.D BFB Injection Date : 03/10/2009 BFB Injection Time : 07:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.6	(.8)1
174	50.0 - 120.0% of mass 95	79.6	
175	5.0 - 9.0% of mass 174	5.9	(7.4)1
176	95.0 - 101.0% of mass 174	77.5	(97.3)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL01	CAL01	A62207.D	03/10/2009	08:49
2	CAL05	CAL05	A62209.D	03/10/2009	09:30
3	CAL20	CAL20	A62211.D	03/10/2009	11:03
4	CAL50	CAL50	A62213.D	03/10/2009	11:44
5	CAL100	CAL100	A62215.D	03/10/2009	12:49
6	CAL200	CAL200	A62219.D	03/10/2009	14:22
7	BLK108667	BLK108667	A62221.D	03/10/2009	15:35
8	BKS108667	BKS108667	A62223.D	03/10/2009	16:25
9	TB-030409	903020-001-001-1/2	A62225.D	03/10/2009	17:06
10	EFFg-030409	903020-004-003-1/3	A62227.D	03/10/2009	17:46
11	ACU2-030409	903020-005-006-1/3	A62229.D	03/10/2009	18:27
12	ACU1-030409	903020-006-009-1/3	A62231.D	03/10/2009	19:08

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: GPL LABORATORIES, LLC. Contract: _____

Lab Code: GPLL Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: A62206.D BFB Injection Date: 03/10/09

Instrument ID: HP#A BFB Injection Time: 07:55

GC Column: RTX_624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	51.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.1)1
174	50.0 - 120.0% of mass 95	78.5
175	4.0 - 9.0% of mass 174	5.9 (7.5)1
176	93.0 - 101.0% of mass 174	79.2 (100.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL01	CAL01	A62208.D	03/10/09	09:10
02	CAL05	CAL05	A62210.D	03/10/09	09:51
03	CAL20	CAL20	A62212.D	03/10/09	11:24
04	CAL50	CAL50	A62214.D	03/10/09	12:04
05	CAL100	CAL100	A62216.D	03/10/09	13:09
06	CAL200	CAL200	A62220.D	03/10/09	14:43
07	ICV50	BKS/ICV50	A62242.D	03/11/09	12:15

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62468.D BFB Injection Date : 03/24/2009 BFB Injection Time : 07:55

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.9	
75	30.0 - 60.0% of mass 95	50.6	
95	Base peak. 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	1.8	(1.9)1
174	50.0 - 120.0% of mass 95	96.3	
175	5.0 - 9.0% of mass 174	6.5	(6.7)1
176	95.0 - 101.0% of mass 174	91.7	(95.3)1
177	5.0 - 9.0% of mass 176	6.5	(7.1)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62472.D	03/24/2009	09:42
2	BKS108792	BKS108792	A62474.D	03/24/2009	10:46
3	BLK108792	BLK108792	A62476.D	03/24/2009	11:26
4	OU1-16GW33-0309	903071-001-013-1/3	A62494.D	03/24/2009	18:38
5	OU1-16MW28-0309	903071-002-016-1/2	A62496.D	03/24/2009	19:19

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62467.D BFB Injection Date : 03/24/2009 BFB Injection Time : 07:34

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.7	
75	30.0 - 60.0% of mass 95	51.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.3	
173	Less than 2.0% of mass 174	0.8	(.8)1
174	50.0 - 120.0% of mass 95	95.6	
175	5.0 - 9.0% of mass 174	7.6	(7.9)1
176	95.0 - 101.0% of mass 174	91.0	(95.1)1
177	5.0 - 9.0% of mass 176	5.8	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62471.D	03/24/2009	09:22
2	BKS108803	BKS108803	A62473.D	03/24/2009	10:25
3	BLK108803	BLK108803	A62475.D	03/24/2009	11:06
4	OU1-S3W3-0309	903071-005-007-1/3	A62493.D	03/24/2009	18:17
5	OU1-TB05-0309	903071-006-010-1/3	A62495.D	03/24/2009	18:58

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62502.D BFB Injection Date : 03/25/2009 BFB Injection Time : 08:54

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.4	
75	30.0 - 60.0% of mass 95	52.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	1.6	(1.8)1
174	50.0 - 120.0% of mass 95	91.4	
175	5.0 - 9.0% of mass 174	6.9	(7.6)1
176	95.0 - 101.0% of mass 174	87.2	(95.4)1
177	5.0 - 9.0% of mass 176	6.1	(7.0)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62506.D	03/25/2009	10:56
2	BKS108804	BKS108804	A62508.D	03/25/2009	11:47
3	BLK108804	BLK108804	A62510.D	03/25/2009	12:40
4	OU1-16GW30-0309	903071-003-001-1/3	A62516.D	03/25/2009	14:41
5	OU1-16GW31-0309	903071-004-004-1/3	A62518.D	03/25/2009	15:34

GPL

Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62472.D Date Analyzed: 03/24/2009 Time Analyzed: 09:42

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	320456	04.69	379848	07.78	366780	04.56
UPPER LIMIT	640912	05.19	759696	08.28	733560	05.06
LOWER LIMIT	160228	04.19	189924	07.28	183390	04.06
Client Sample						
BKS108792	242329	04.68	289118	07.78	283470	04.56
BLK108792	268879	04.69	307270	07.78	299283	04.56
OU1-16GW33-0309	246940	04.69	285601	07.78	270015	04.56
OU1-16MW28-0309	227933	04.69	268252	07.78	253002	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62471.D Date Analyzed: 03/24/2009 Time Analyzed: 09:22

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	415116	04.68	492903	07.78	468610	04.55
UPPER LIMIT	830232	05.18	985806	08.28	937220	05.05
LOWER LIMIT	207558	04.18	246452	07.28	234305	04.05
Client Sample						
BKS108803	424198	04.68	498687	07.78	477603	04.56
BLK108803	400974	04.68	448334	07.78	449301	04.55
OU1-S3W3-0309	343911	04.68	399921	07.78	385107	04.55
OU1-TB05-0309	344267	04.68	391325	07.78	369663	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL

Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903071

Lab File ID: A62506.D Date Analyzed: 03/25/2009 Time Analyzed: 10:56

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	359942	04.69	419275	07.78	402043	04.56
UPPER LIMIT	719884	05.19	838550	08.28	804086	05.06
LOWER LIMIT	179971	04.19	209638	07.28	201022	04.06
Client Sample						
BKS108804	325733	04.69	374869	07.78	370357	04.56
BLK108804	282248	04.69	320524	07.78	320125	04.56
OU1-16GW30-0309	262367	04.69	301514	07.78	297620	04.56
OU1-16GW31-0309	266486	04.69	291585	07.78	291207	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard ar
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-013-1/3
Sample Volume :	5	Lab File ID :	A62494.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-013-1/3
Sample Volume :	5	Lab File ID :	A62494.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.7	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-013-1/3
Sample Volume :	5	Lab File ID :	A62494.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62494.D
Acq On : 24 Mar 2009 18:38
Operator : SM
Sample : 903071-001
Misc : OUI-16GW33-0309,CH2M HILL,WATER
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Mar 25 12:52:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

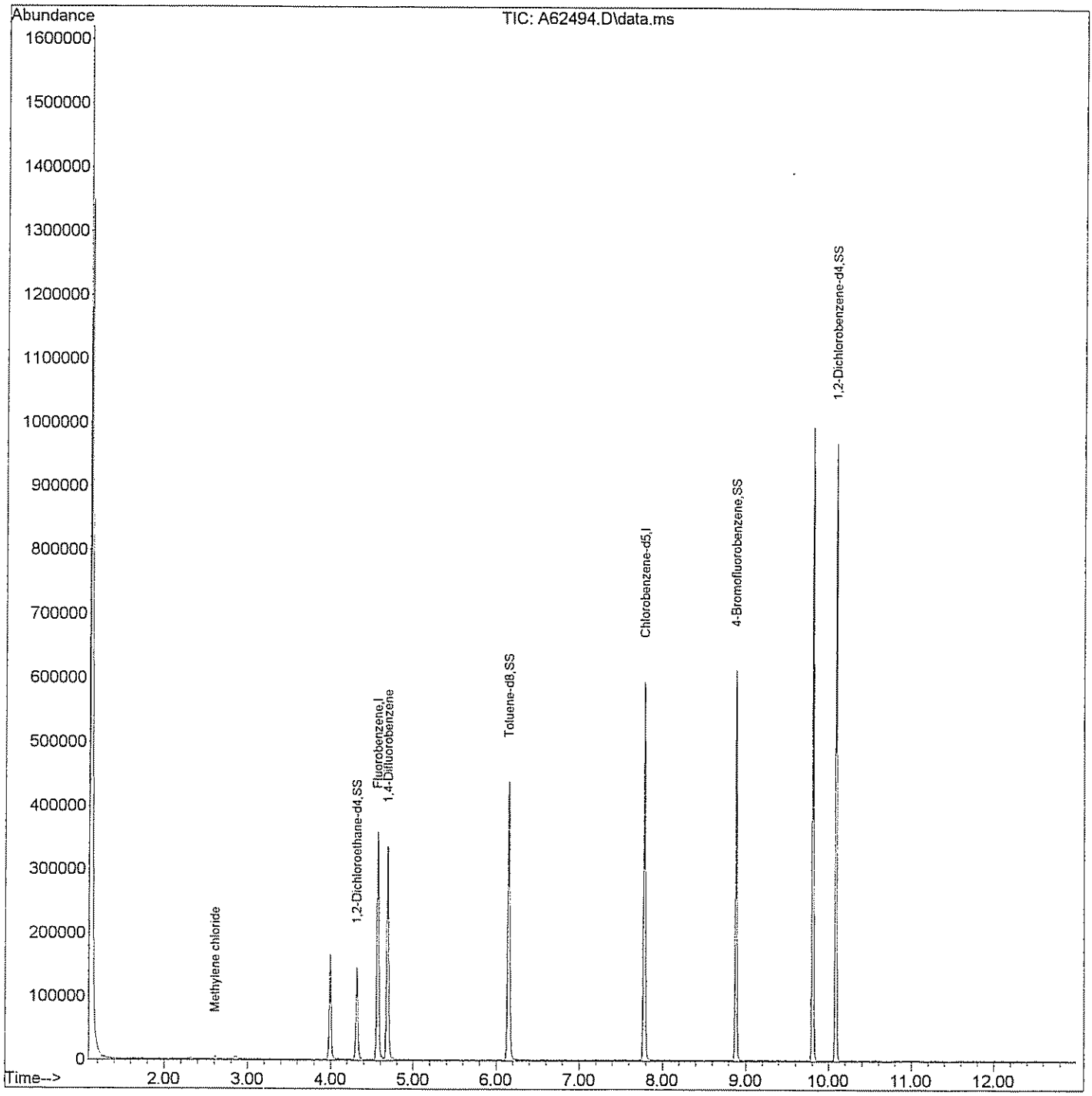
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	270015	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	246940	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	285601	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	73983	49.59	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.18%			
53) Toluene-d8	6.148	98	260489	47.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 95.06%			
75) 4-Bromofluorobenzene	8.881	95	133375	47.06	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.12%			
91) 1,2-Dichlorobenzene-d4	10.085	152	171549	55.48	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 110.96%			
Target Compounds						Qvalue
15) Methylene chloride	2.611	84	1433	3.68	ug/L #	74

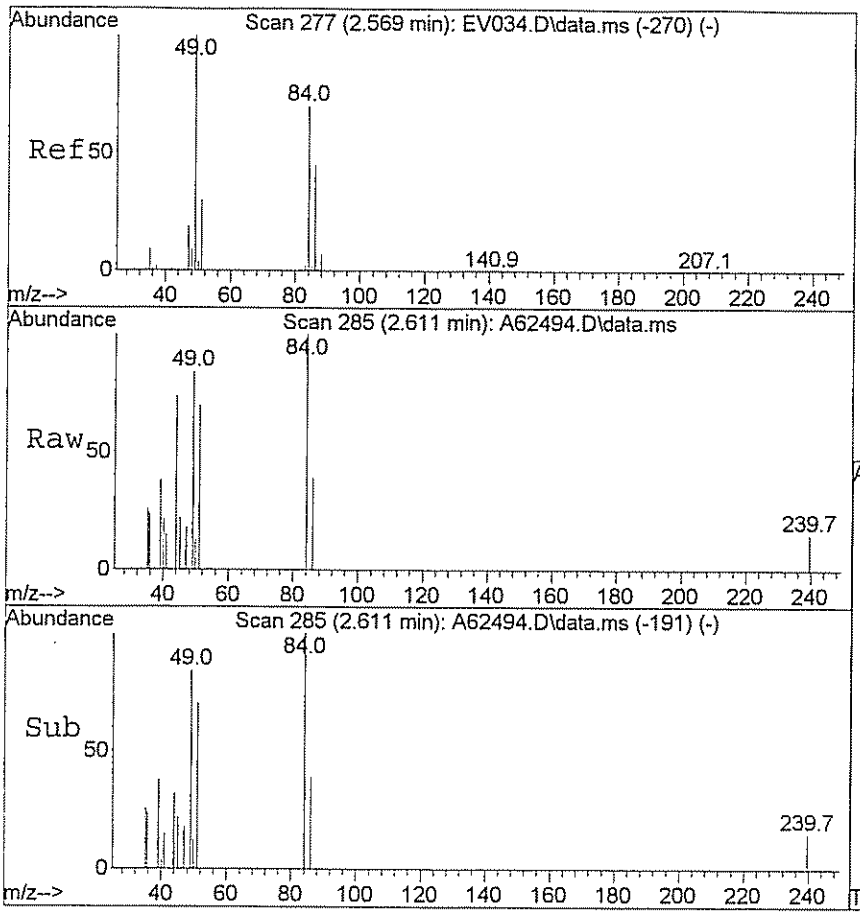
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62494.D
Acq On : 24 Mar 2009 18:38
Operator : SM
Sample : 903071-001
Misc : OUI-16GW33-0309,CH2M HILL,WATER
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Mar 25 12:52:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

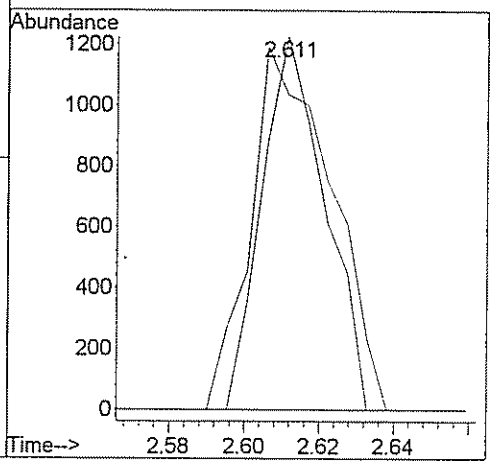




#15
Methylene chloride
Concen: 3.68 ug/L
RT: 2.611 min Scan# 285
Delta R.T. 0.005 min
Lab File: A62494.D
Acq: 24 Mar 2009 18:38

Tgt Ion: 84 Resp: 1433

Ion	Ratio	Lower	Upper
84	100		
49	124.1	125.9	188.9#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-016-1/2
Sample Volume :	5	Lab File ID :	A62496.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-016-1/2
Sample Volume :	5	Lab File ID :	A62496.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.6	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	10	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-016-1/2
Sample Volume :	5	Lab File ID :	A62496.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	31	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62496.D
Acq On : 24 Mar 2009 19:19
Operator : SM
Sample : 903071-002
Misc : OUI-16MW28-0309,CH2M HILL,WATER
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Mar 25 12:56:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

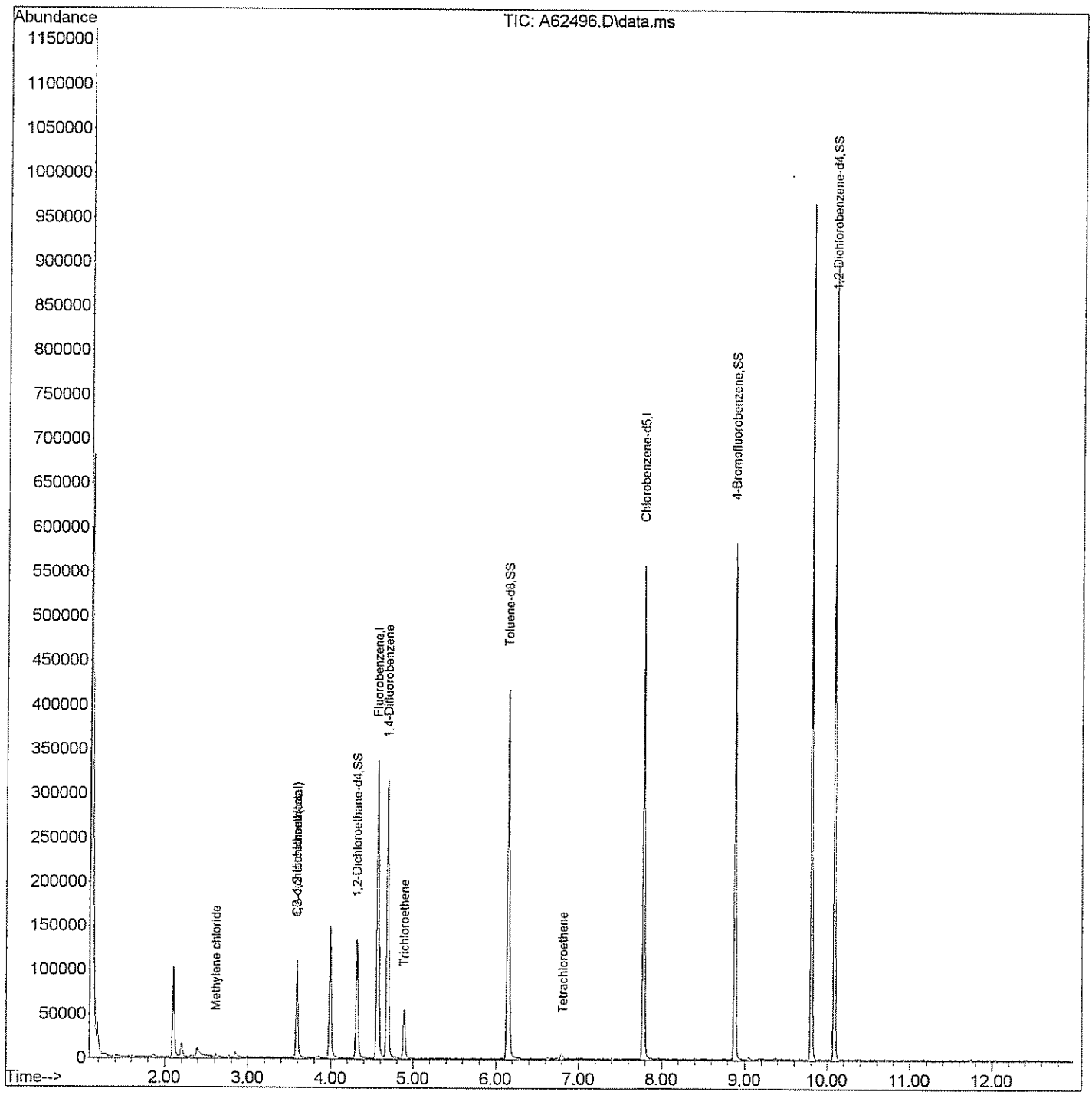
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	253002	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	227933	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	268252	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	71563	51.20	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.40%			
53) Toluene-d8	6.148	98	244060	48.24	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.48%			
75) 4-Bromofluorobenzene	8.881	95	125158	47.01	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.02%			
91) 1,2-Dichlorobenzene-d4	10.085	152	163406	56.27	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 112.54%			
Target Compounds						Qvalue
15) Methylene chloride	2.617	84	787	3.21	ug/L	79
28) Cis-1,2-dichloroethene	3.591	96	37008	30.75	ug/L	83
29) 1,2-dichloroethene(total)	3.591	96	37760m	34.37	ug/L	
46) Trichloroethene	4.896	95	12672	10.06	ug/L #	73
61) Tetrachloroethene	6.811	166	2339	1.65	ug/L	92

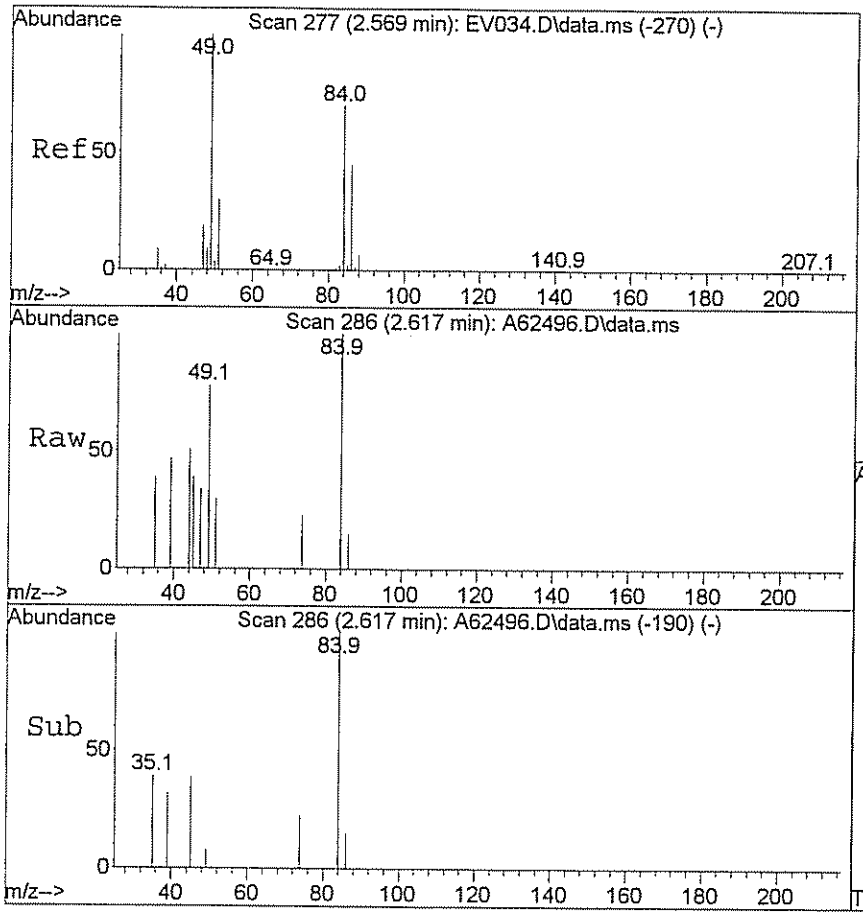
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62496.D
Acq On : 24 Mar 2009 19:19
Operator : SM
Sample : 903071-002
Misc : OUI-16MW28-0309,CH2M HILL,WATER
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Mar 25 12:56:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

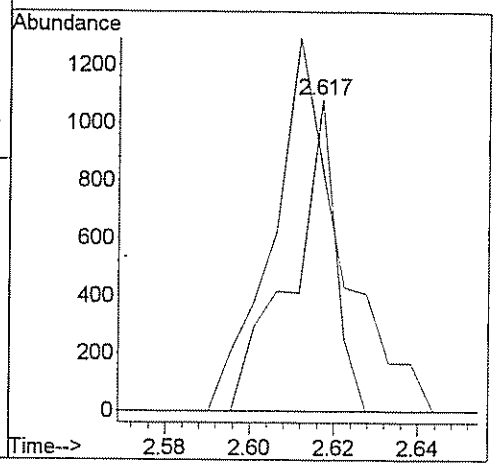


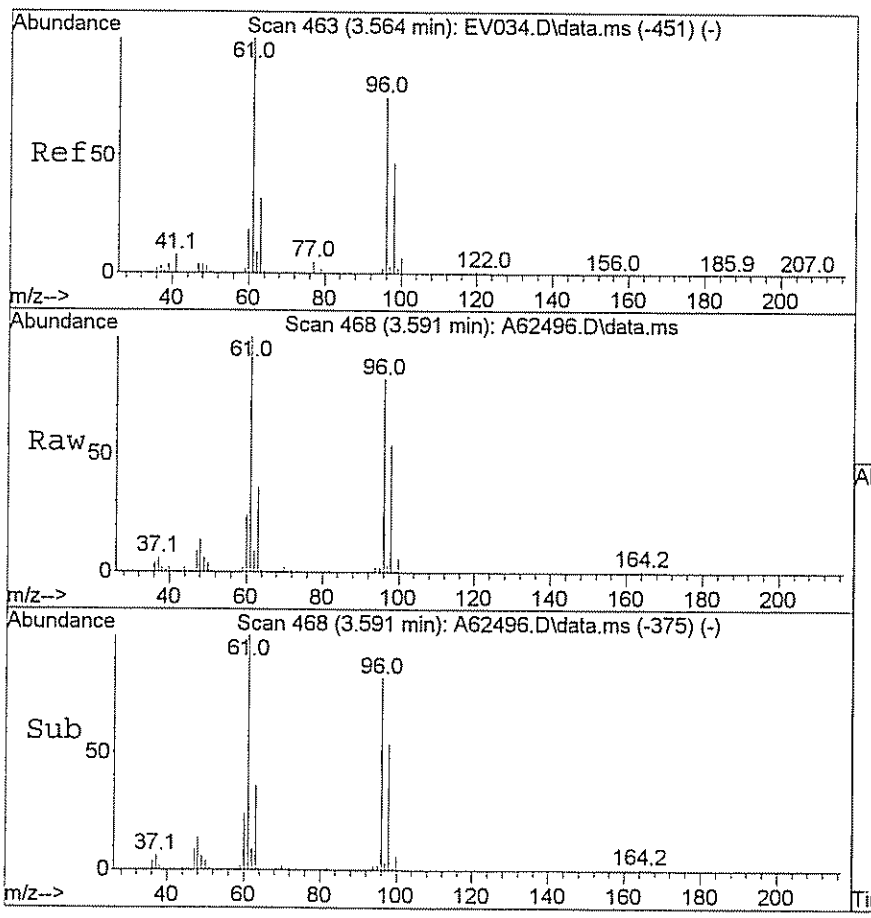


#15
Methylene chloride
Concen: 3.21 ug/L
RT: 2.617 min Scan# 286
Delta R.T. 0.011 min
Lab File: A62496.D
Acq: 24 Mar 2009 19:19

Tgt Ion: 84 Resp: 787

Ion	Ratio	Lower	Upper
84	100		
49	184.5	125.9	188.9

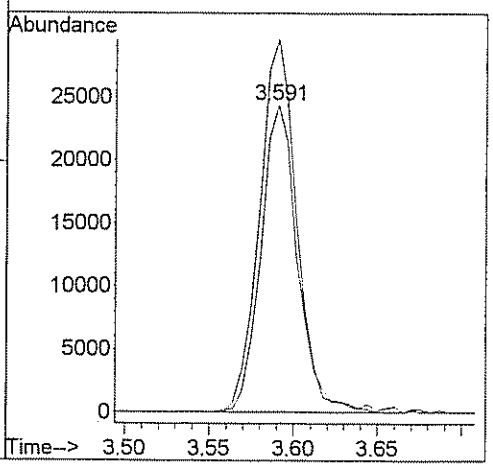


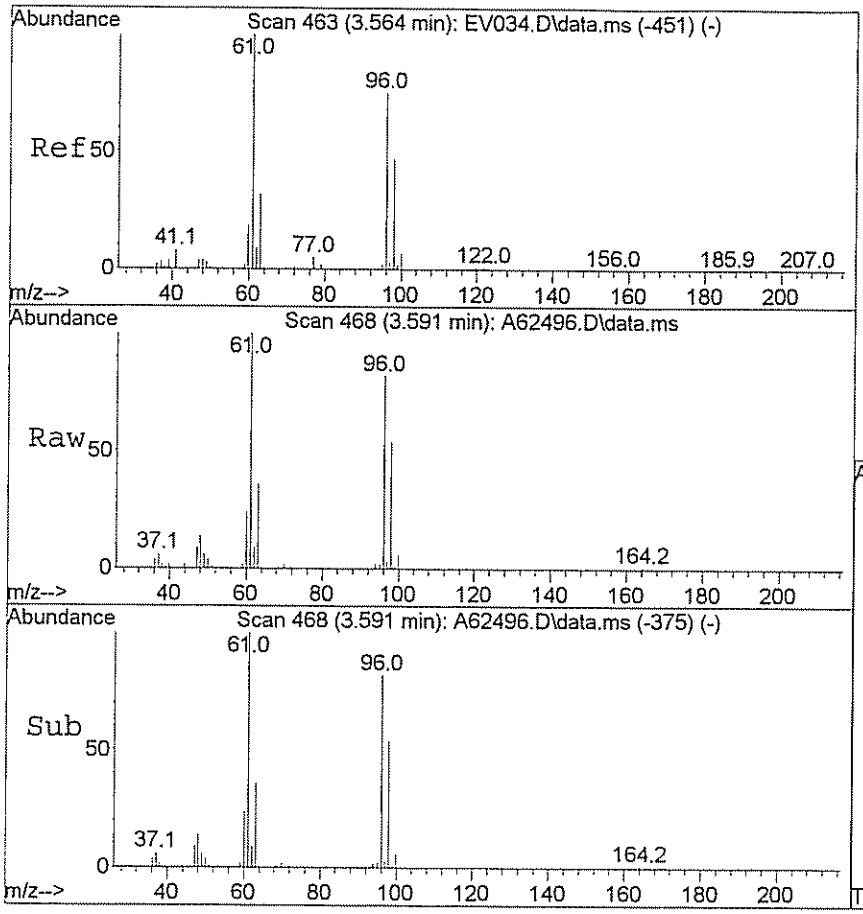


#28
Cis-1,2-dichloroethene
Concen: 30.75 ug/L
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62496.D
Acq: 24 Mar 2009 19:19

Tgt Ion: 96 Resp: 37008

Ion	Ratio	Lower	Upper
96	100		
61	122.5	115.0	172.6

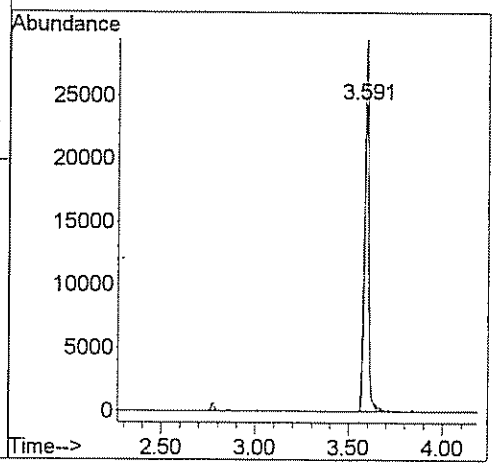


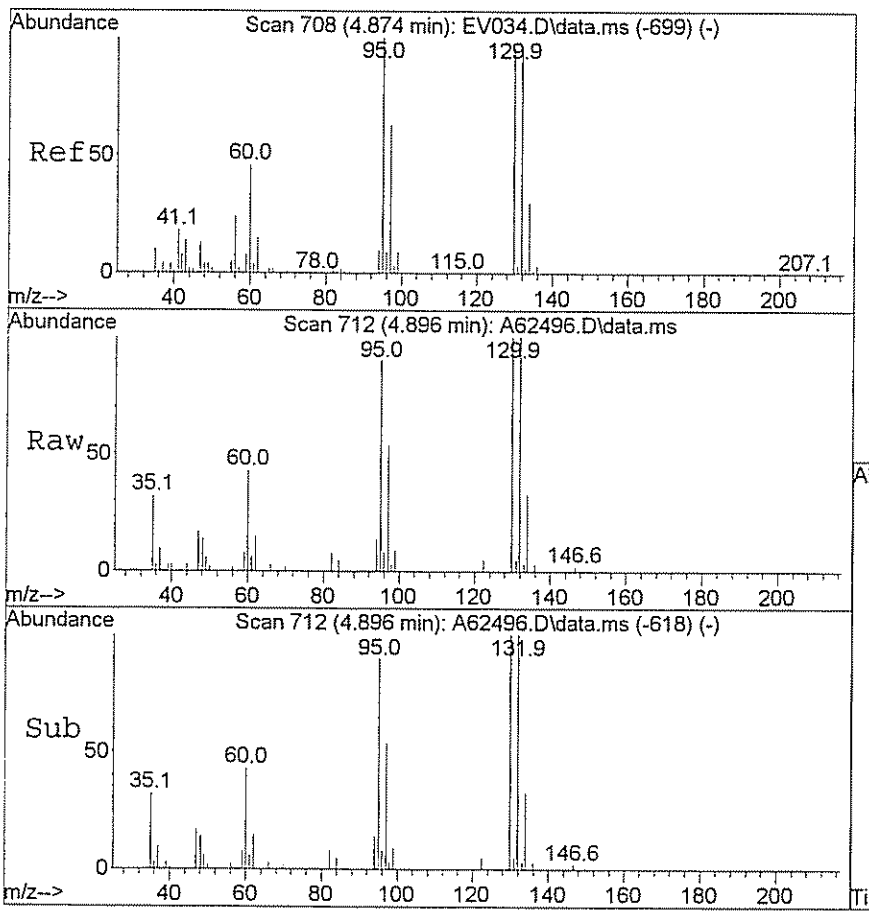


#29
1,2-dichloroethene(total)
Concen: 34.37 ug/L m
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62496.D
Acq: 24 Mar 2009 19:19

Tgt Ion: 96 Resp: 37760

Ion	Ratio	Lower	Upper
96	100		
61	120.1	115.0	172.6

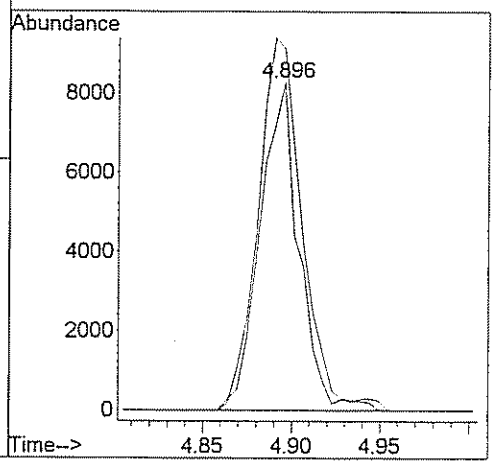


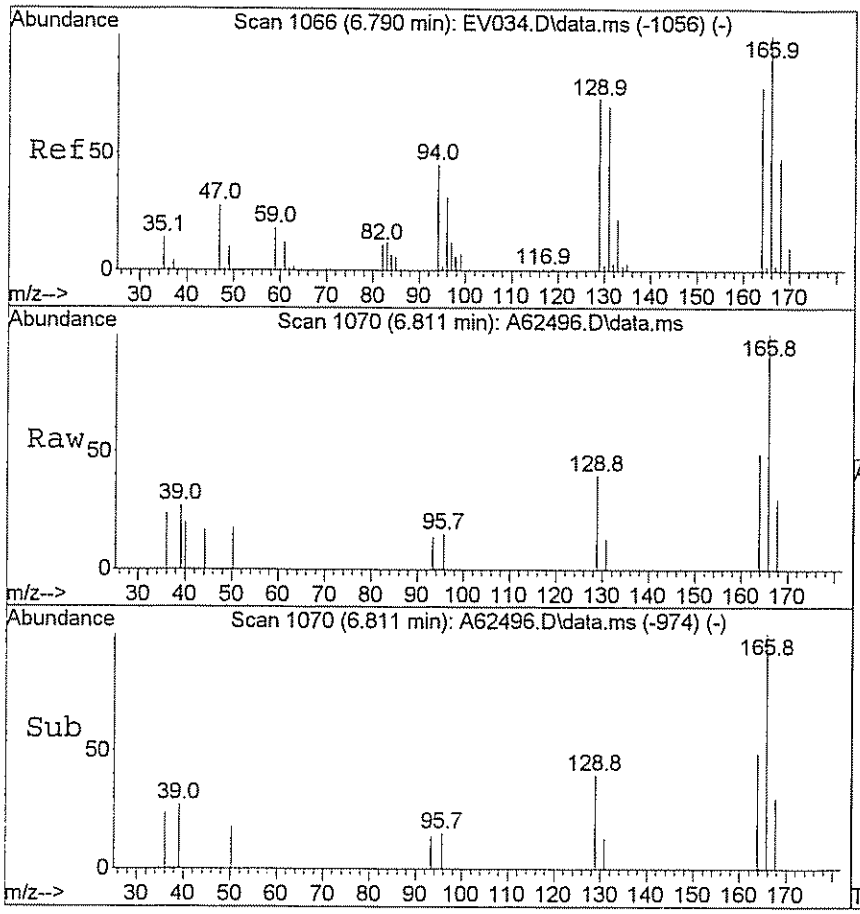


#46
Trichloroethene
Concen: 10.06 ug/L
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62496.D
Acq: 24 Mar 2009 19:19

Tgt Ion: 95 Resp: 12672

Ion	Ratio	Lower	Upper
95	100		
130	126.2	79.7	119.5#

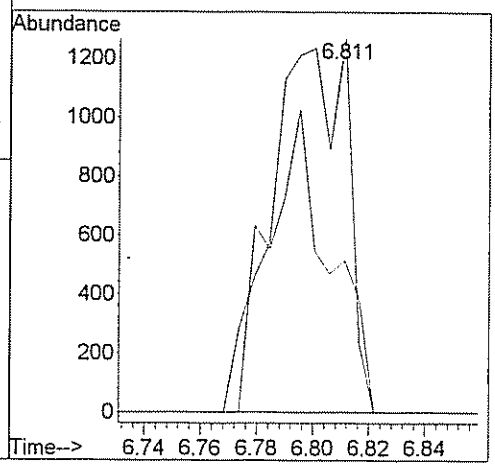




#61
Tetrachloroethene
Concen: 1.65 ug/L
RT: 6.811 min Scan# 1070
Delta R.T. 0.016 min
Lab File: A62496.D
Acq: 24 Mar 2009 19:19

Tgt Ion:166 Resp: 2339

Ion	Ratio	Lower	Upper
166	100		
129	66.4	58.6	88.0



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-001-1/3
Sample Volume :	5	Lab File ID :	A62516.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-001-1/3
Sample Volume :	5	Lab File ID :	A62516.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	2.0	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-001-1/3
Sample Volume :	5	Lab File ID :	A62516.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	8.8	
156-59-2	cis-1,2-Dichloroethene	32	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	2.9	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62516.D
Acq On : 25 Mar 2009 14:41
Operator : SM
Sample : 903071-003
Misc : OUI-16GW30-0309,CH2M HILL,WATER
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 25 18:24:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

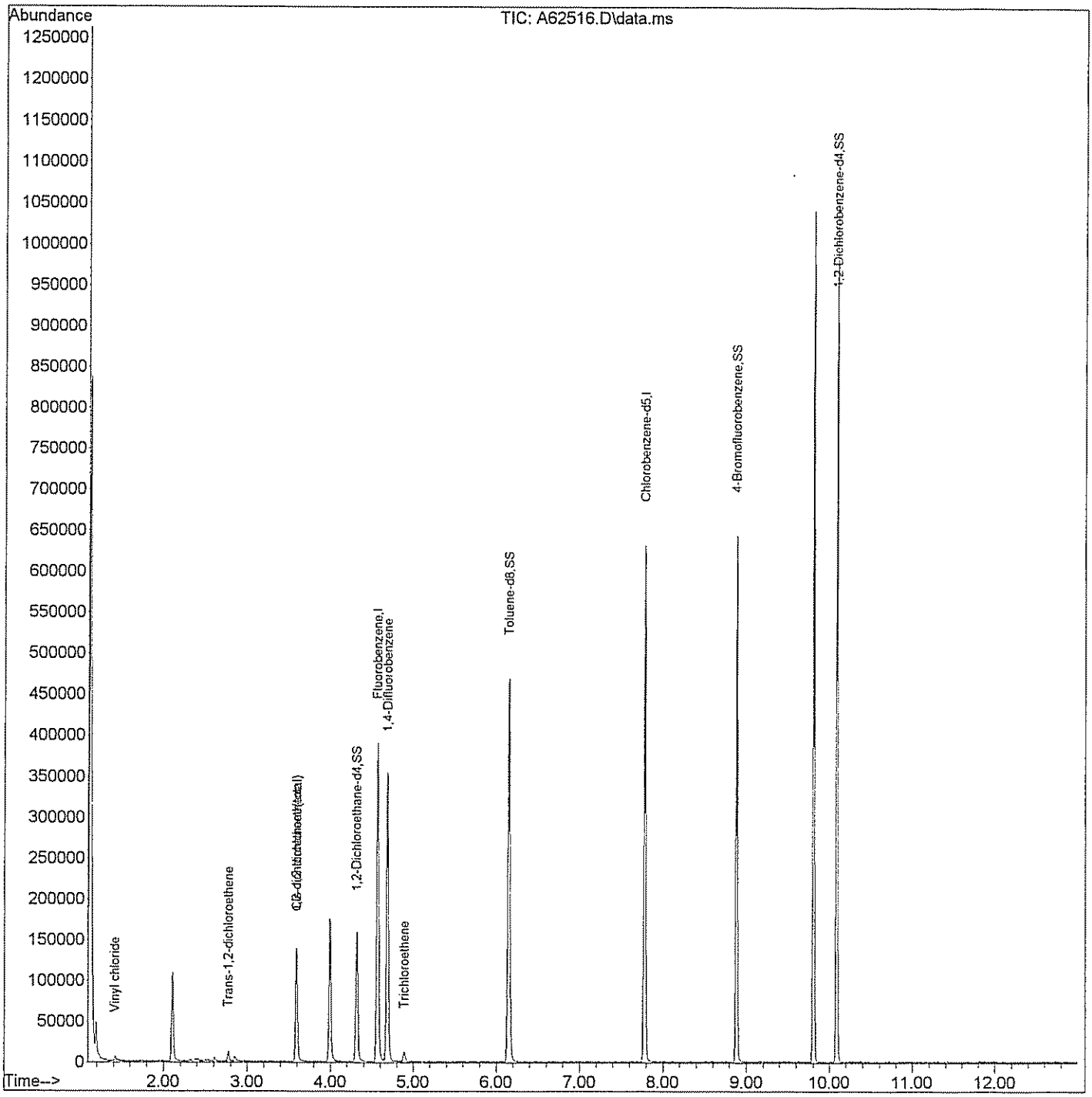
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	297620	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	262367	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	301514	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	79784	48.52	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.04%			
53) Toluene-d8	6.148	98	276226	47.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 94.86%			
75) 4-Bromofluorobenzene	8.881	95	137466	45.94	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 91.88%			
91) 1,2-Dichlorobenzene-d4	10.085	152	181872	55.72	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 111.44%			
Target Compounds						Qvalue
4) Vinyl chloride	1.419	62	5801	8.80	ug/L	96
16) Trans-1,2-dichloroethene	2.777	96	3481	2.92	ug/L #	76
28) Cis-1,2-dichloroethene	3.596	96	45845	32.39	ug/L	92
29) 1,2-dichloroethene(total)	3.596	96	49841m	38.56	ug/L	
46) Trichloroethene	4.896	95	2843	1.96	ug/L	81

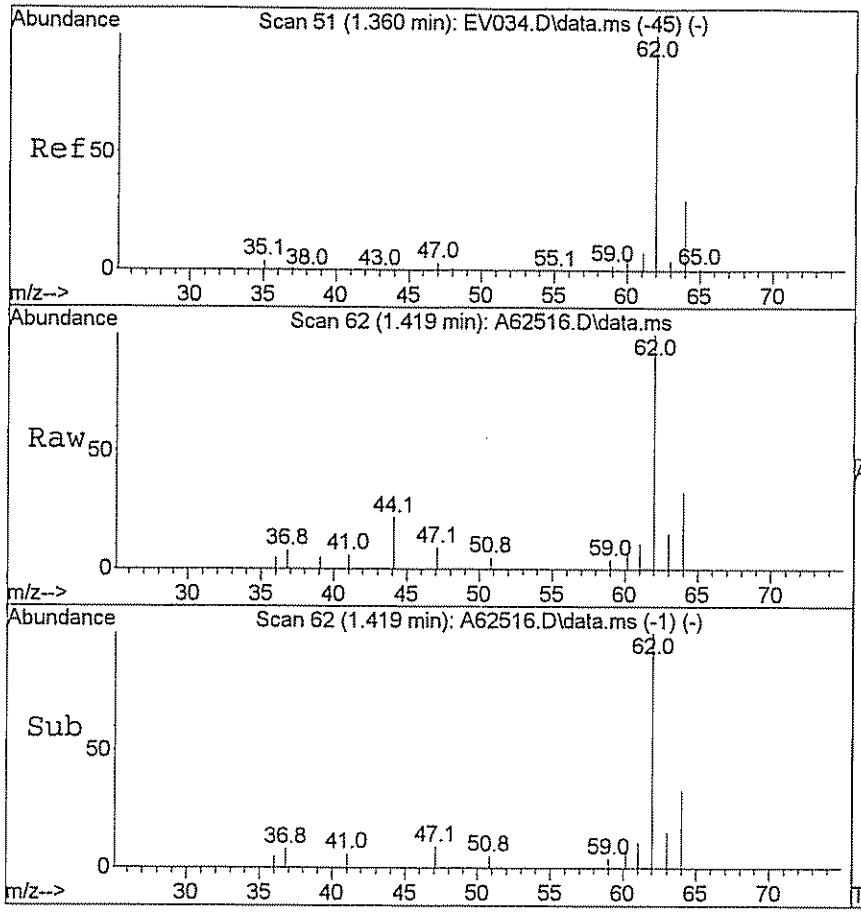
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62516.D
Acq On : 25 Mar 2009 14:41
Operator : SM
Sample : 903071-003
Misc : OUI-16GW30-0309,CH2M HILL,WATER
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 25 18:24:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

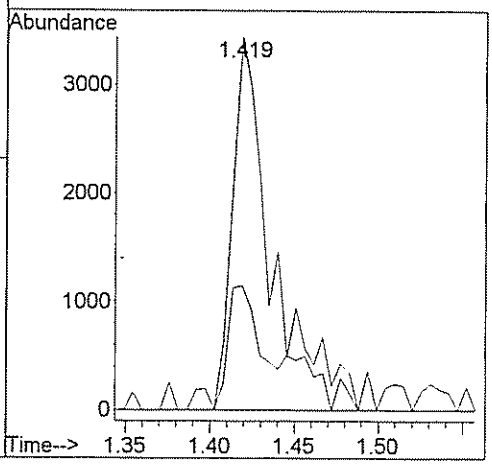


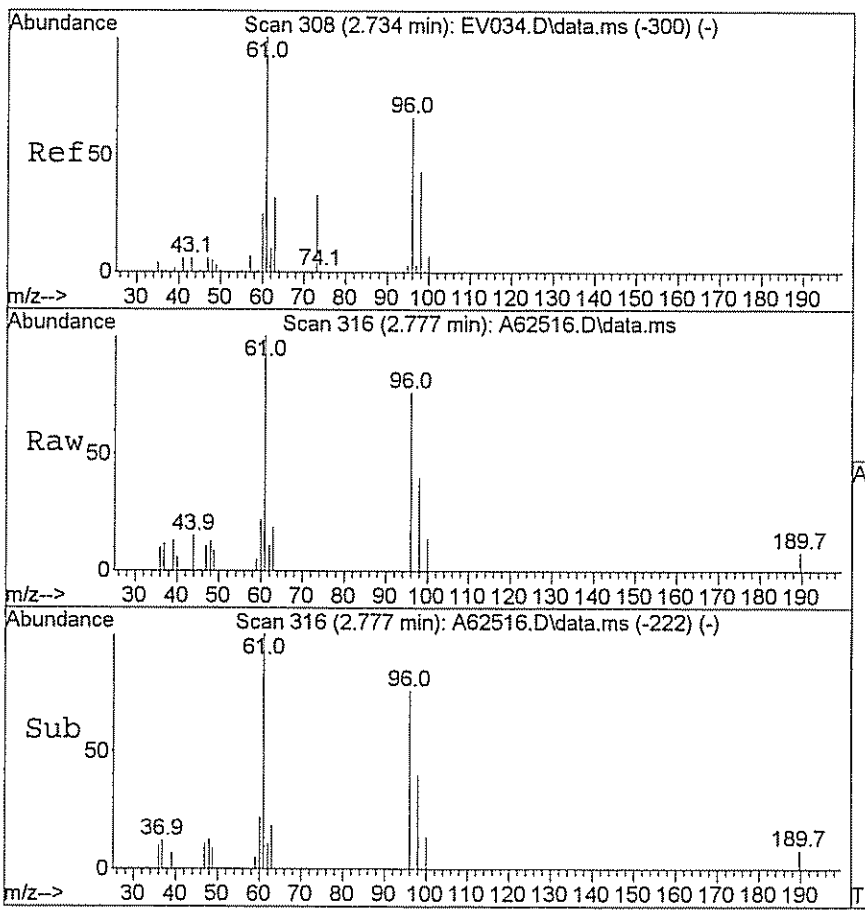


#4
Vinyl chloride
Concen: 8.80 ug/L
RT: 1.419 min Scan# 62
Delta R.T. 0.006 min
Lab File: A62516.D
Acq: 25 Mar 2009 14:41

Tgt Ion: 62 Resp: 5801

Ion	Ratio	Lower	Upper
62	100		
64	28.6	24.5	36.7

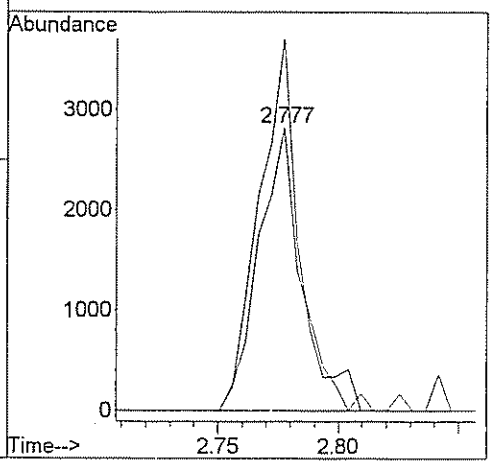


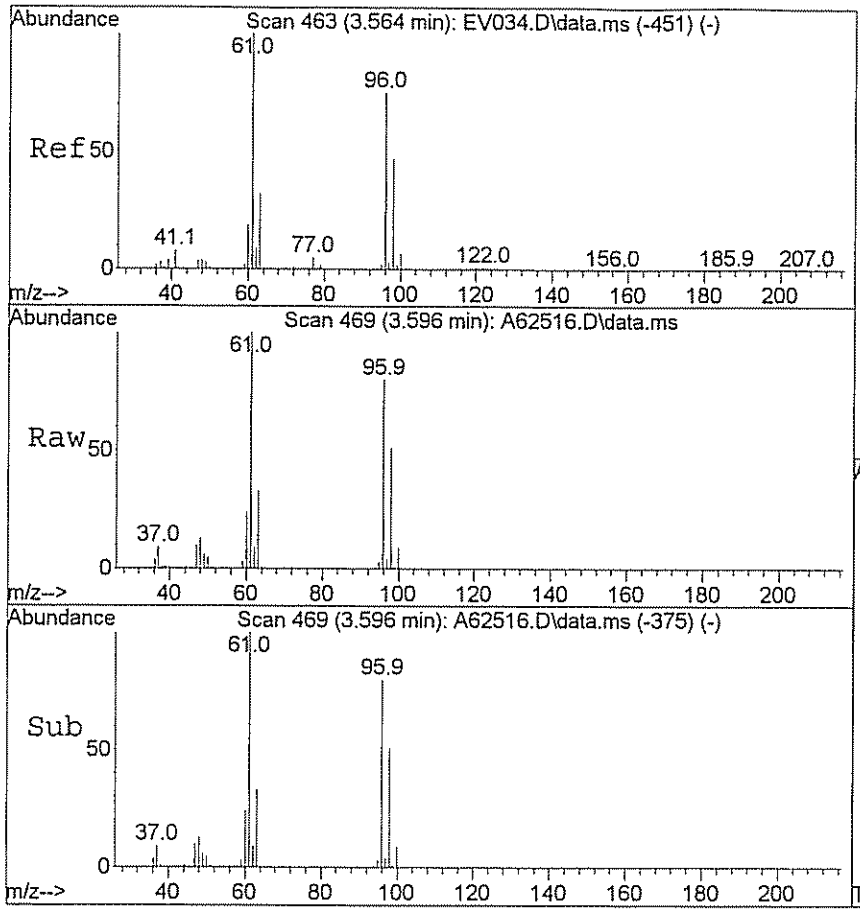


#16
Trans-1,2-dichloroethene
Concen: 2.92 ug/L
RT: 2.777 min Scan# 316
Delta R.T. 0.005 min
Lab File: A62516.D
Acq: 25 Mar 2009 14:41

Tgt Ion: 96 Resp: 3481

Ion	Ratio	Lower	Upper
96	100		
61	123.9	124.0	186.0#

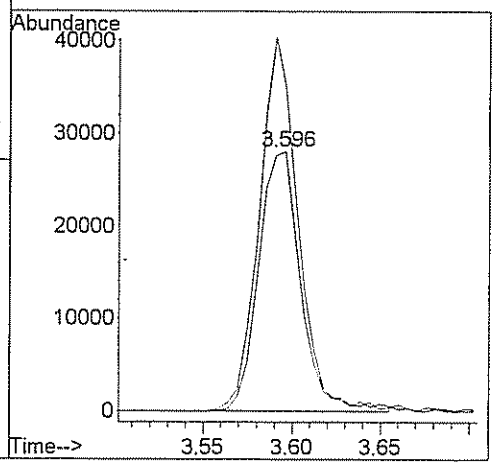


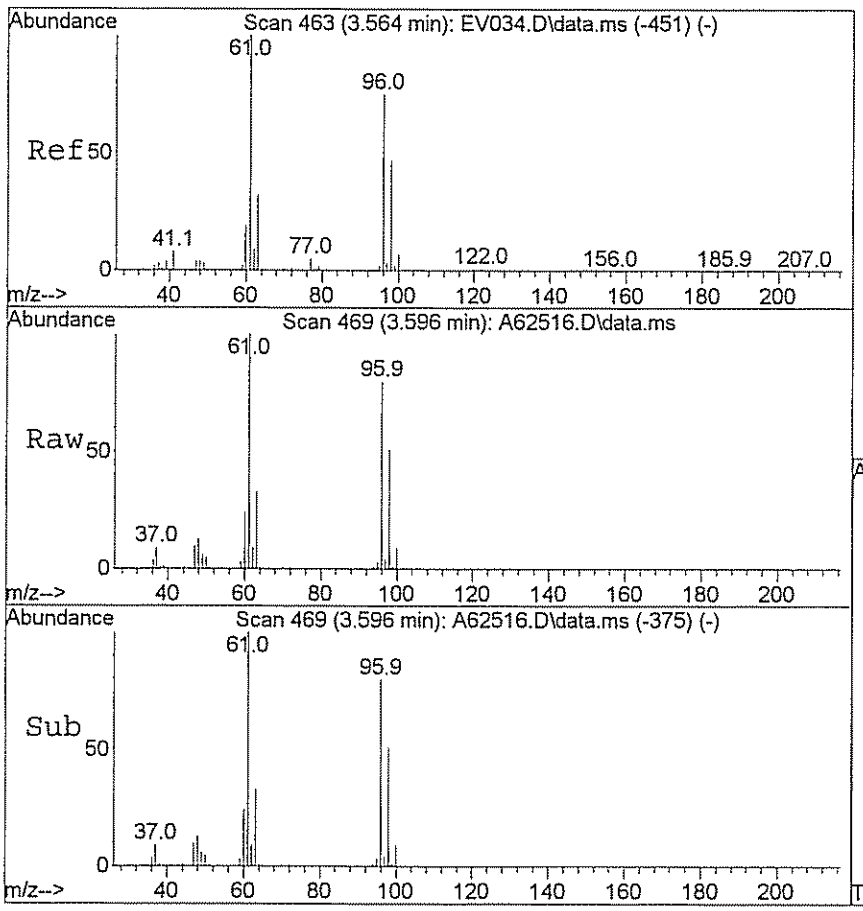


#28
Cis-1,2-dichloroethene
Concen: 32.39 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62516.D
Acq: 25 Mar 2009 14:41

Tgt Ion: 96 Resp: 45845

Ion	Ratio	Lower	Upper
96	100		
61	133.3	115.0	172.6

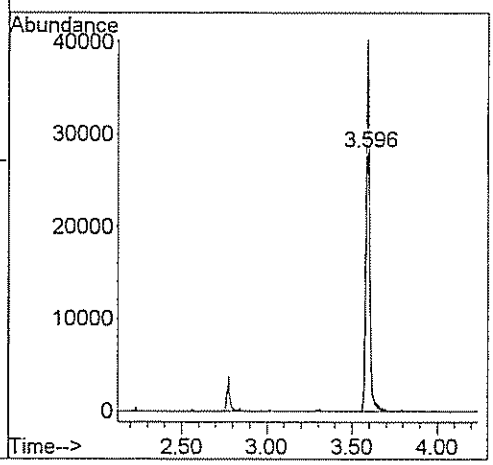


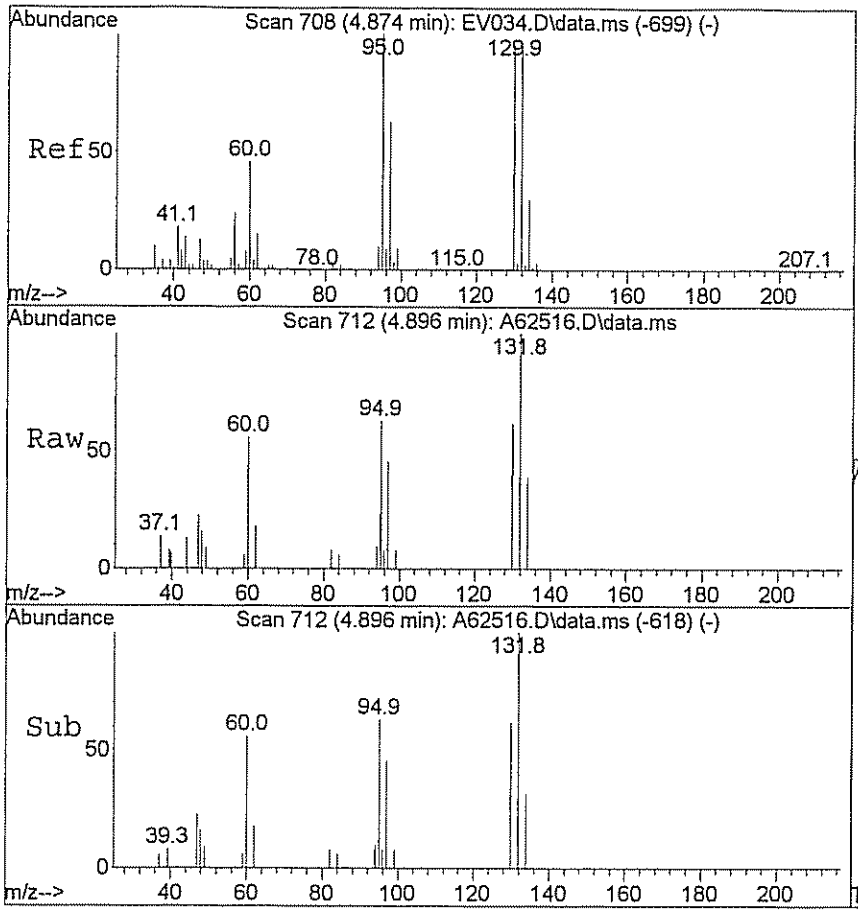


#29
1,2-dichloroethene(total)
Concen: 38.56 ug/L m
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62516.D
Acq: 25 Mar 2009 14:41

Tgt Ion: 96 Resp: 49841

Ion	Ratio	Lower	Upper
96	100		
61	122.6	115.0	172.6

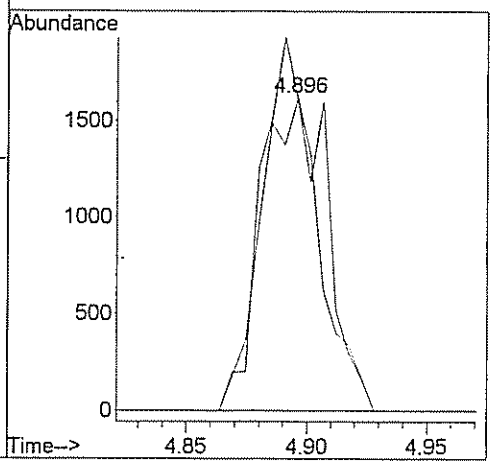




#46
Trichloroethene
Concen: 1.96 ug/L
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62516.D
Acq: 25 Mar 2009 14:41

Tgt Ion: 95 Resp: 2843

Ion	Ratio	Lower	Upper
95	100		
130	118.3	79.7	119.5



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-004-1/3
Sample Volume :	5	Lab File ID :	A62518.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-004-1/3
Sample Volume :	5	Lab File ID :	A62518.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-004-1/3
Sample Volume :	5	Lab File ID :	A62518.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62518.D
Acq On : 25 Mar 2009 15:34
Operator : SM
Sample : 903071-004
Misc : OUI-16GW31-0309,CH2M HILL,WATER
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 25 18:23:31 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

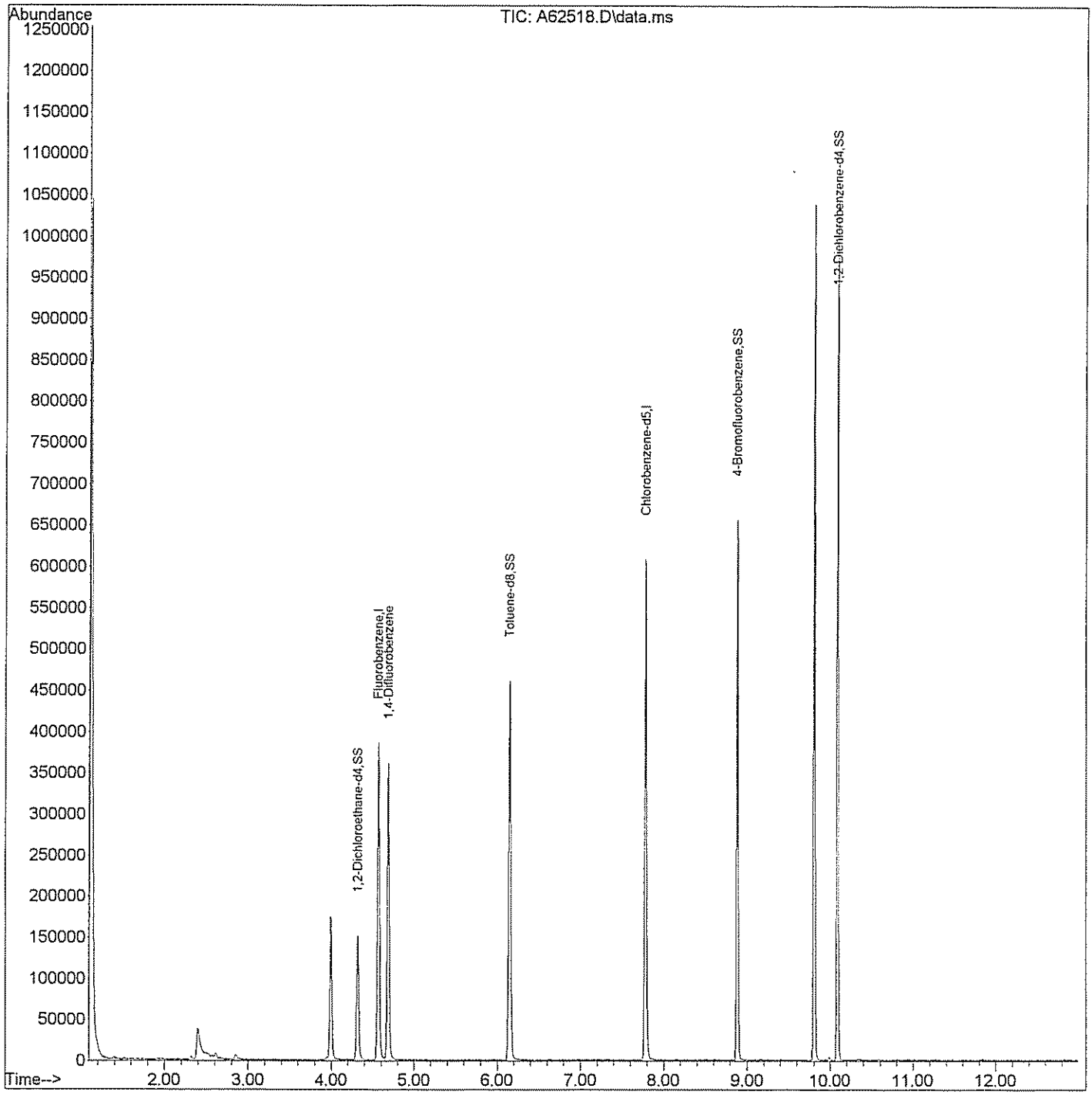
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	291207	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	266486	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	291585	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	82876	51.51	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.02%			
53) Toluene-d8	6.148	98	278118	47.02	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 94.04%			
75) 4-Bromofluorobenzene	8.881	95	143144	49.47	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.94%			
91) 1,2-Dichlorobenzene-d4	10.085	152	183575	58.15	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.30%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62518.D
Acq On : 25 Mar 2009 15:34
Operator : SM
Sample : 903071-004
Misc : OUI-16GW31-0309,CH2M HILL,WATER
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 25 18:23:31 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-007-1/3
Sample Volume :	5	Lab File ID :	A62493.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	2.5	
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-007-1/3
Sample Volume :	5	Lab File ID :	A62493.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	84	
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.8	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	56	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-007-1/3
Sample Volume :	5	Lab File ID :	A62493.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	34	
156-59-2	cis-1,2-Dichloroethene	180	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	13	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62493.D
Acq On : 24 Mar 2009 18:17
Operator : SM
Sample : 903071-005
Misc : OUI-S3W3-0309,CH2M HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 25 18:03:16 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

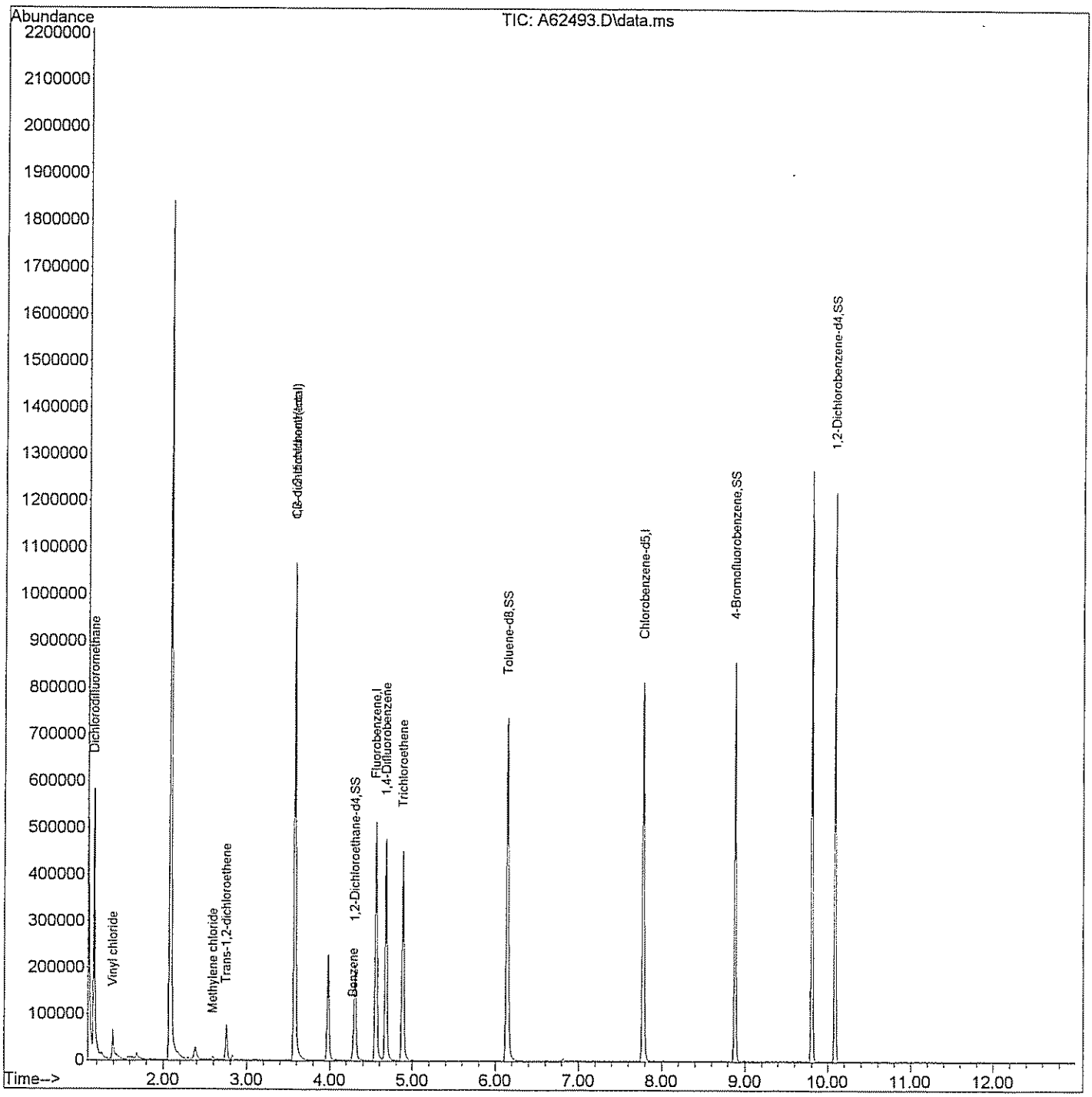
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	385107	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	343911	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	399921	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	101035	49.38	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.76%			
54) Toluene-d8	6.142	98	454782	57.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 114.14%			
76) 4-Bromofluorobenzene	8.881	95	182567	48.43	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.86%			
92) 1,2-Dichlorobenzene-d4	10.085	152	211010	57.07	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.162	85	57146	83.75	ug/L	95
4) Vinyl chloride	1.392	62	53495	33.57	ug/L	100
15) Methylene chloride	2.590	84	2024	2.75	ug/L	96
16) Trans-1,2-dichloroethene	2.751	96	20779	12.93	ug/L	84
28) Cis-1,2-dichloroethene	3.575	96	352059	180.58	ug/L	86
29) 1,2-dichloroethene(total)	3.575	96	380263m	184.25	ug/L	
45) Benzene	4.281	78	18498	2.54	ug/L	100
47) Trichloroethene	4.885	95	105318	56.34	ug/L #	69

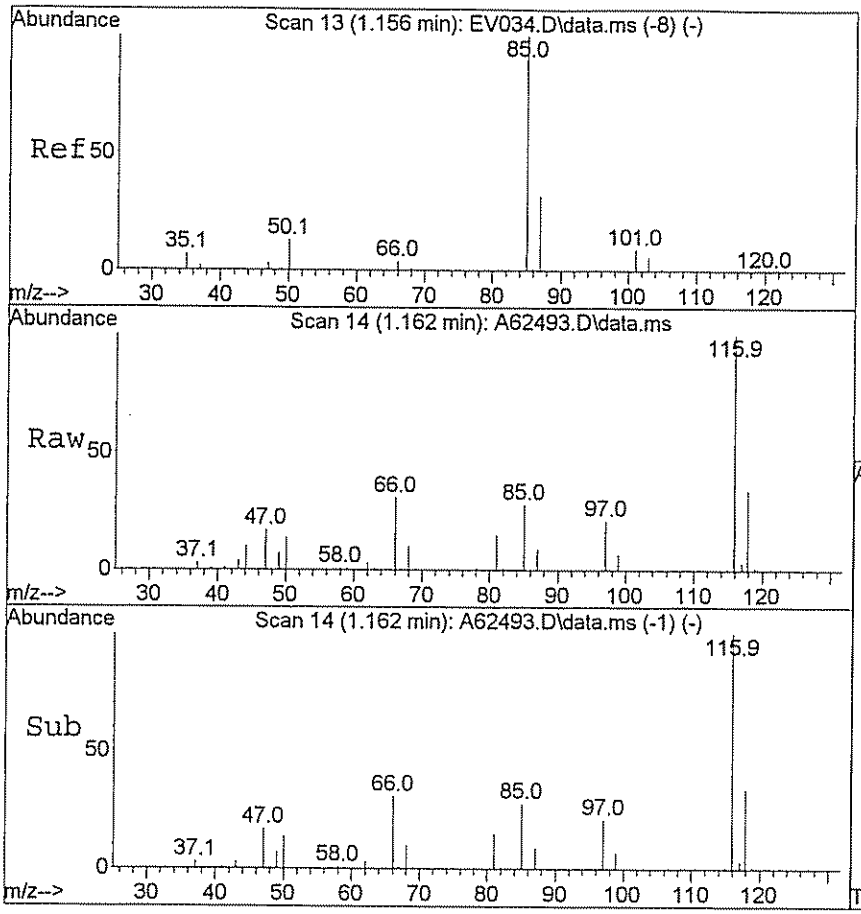
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62493.D
Acq On : 24 Mar 2009 18:17
Operator : SM
Sample : 903071-005
Misc : OUI-S3W3-0309,CH2M HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 25 18:03:16 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

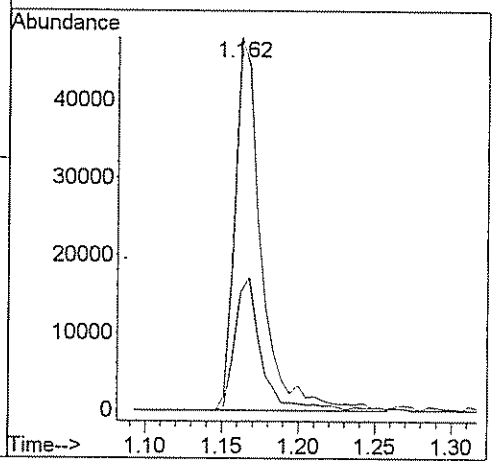


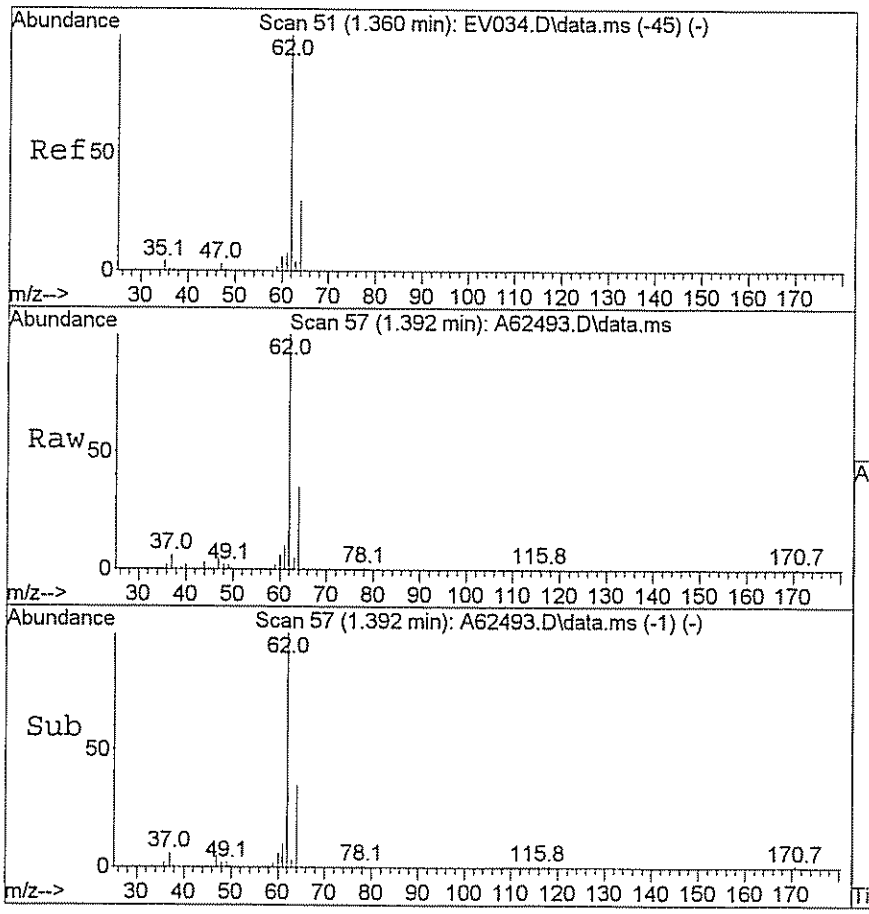


#2
Dichlorodifluoromethane
Concen: 83.75 ug/L
RT: 1.162 min Scan# 14
Delta R.T. -0.027 min
Lab File: A62493.D
Acq: 24 Mar 2009 18:17

Tgt Ion: 85 Resp: 57146

Ion	Ratio	Lower	Upper
85	100		
87	35.0	25.7	38.5

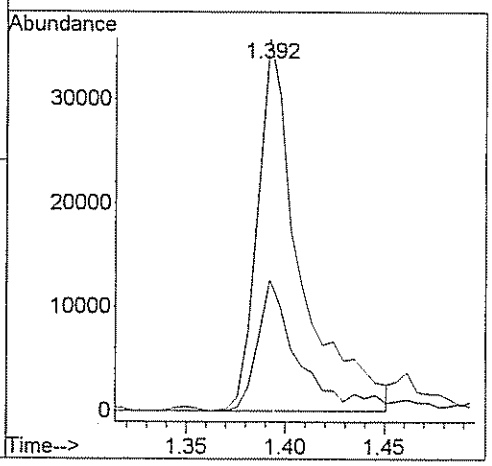


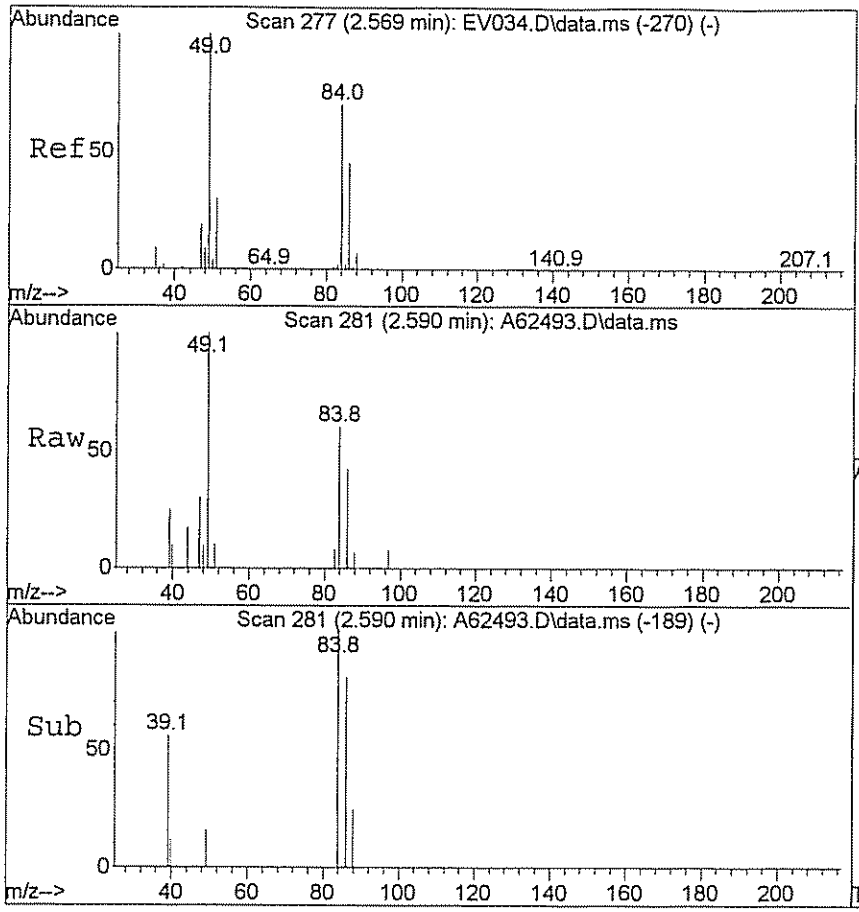


#4
Vinyl chloride
Concen: 33.57 ug/L
RT: 1.392 min Scan# 57
Delta R.T. -0.005 min
Lab File: A62493.D
Acq: 24 Mar 2009 18:17

Tgt Ion: 62 Resp: 53495

Ion	Ratio	Lower	Upper
62	100		
64	30.6	24.5	36.7

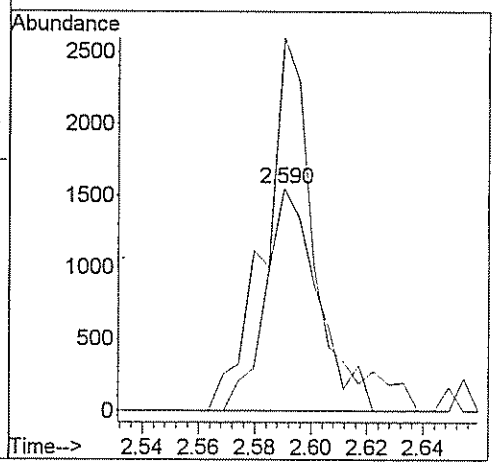


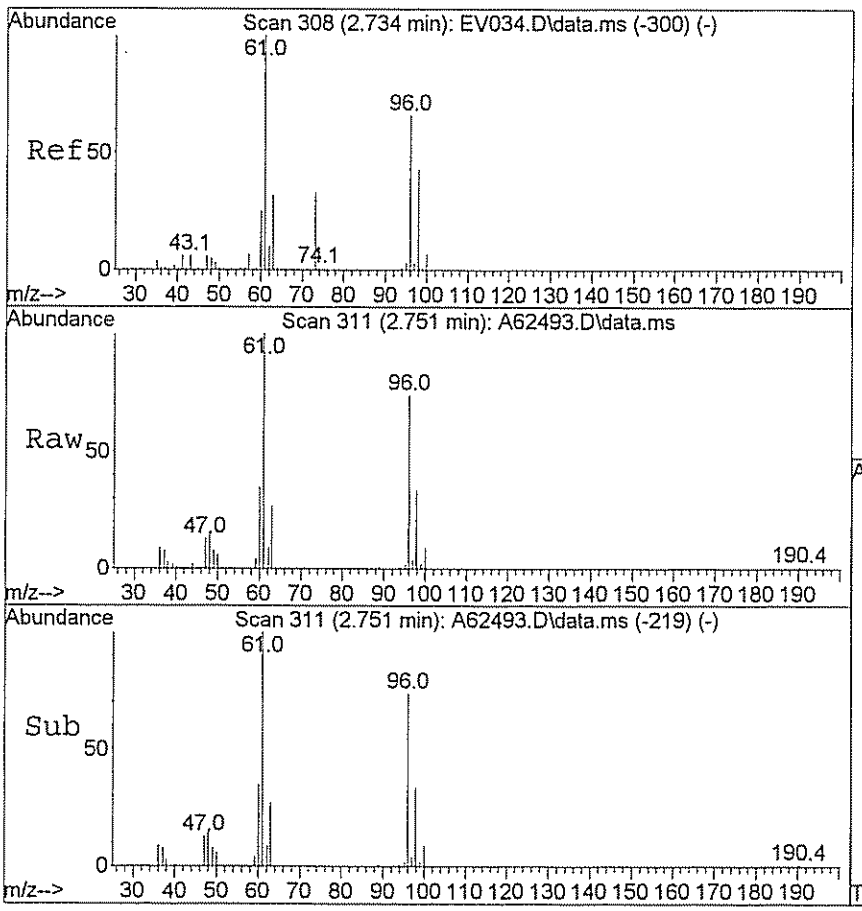


#15
Methylene chloride
Concen: 2.75 ug/L
RT: 2.590 min Scan# 281
Delta R.T. -0.005 min
Lab File: A62493.D
Acq: 24 Mar 2009 18:17

Tgt Ion: 84 Resp: 2024

Ion	Ratio	Lower	Upper
84	100		
49	162.1	125.9	188.9

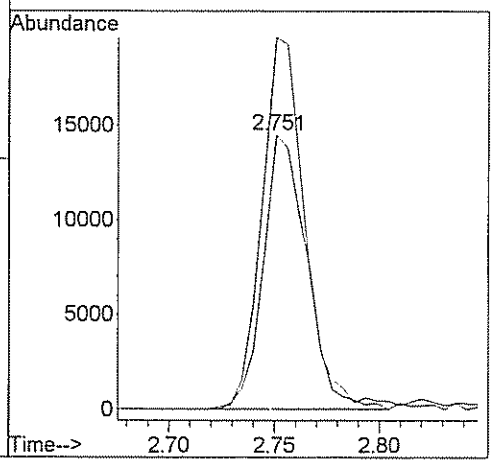


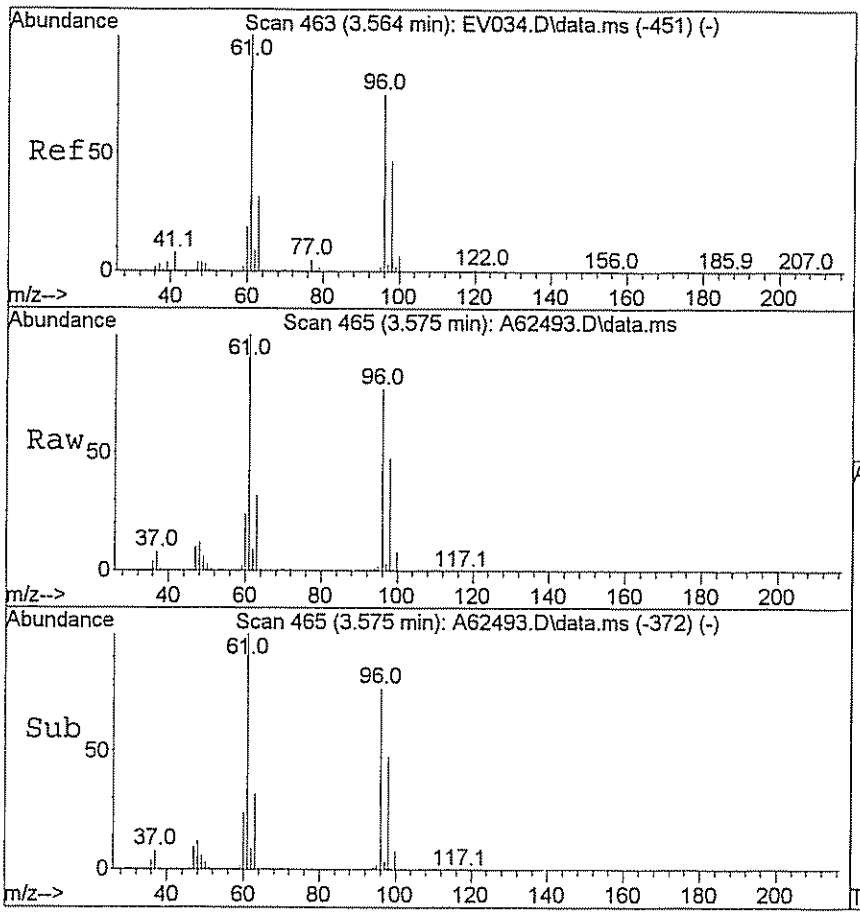


#16
Trans-1,2-dichloroethene
Concen: 12.93 ug/L
RT: 2.751 min Scan# 311
Delta R.T. -0.005 min
Lab File: A62493.D
Acq: 24 Mar 2009 18:17

Tgt Ion: 96 Resp: 20779

Ion	Ratio	Lower	Upper
96	100		
61	134.2	124.0	186.0

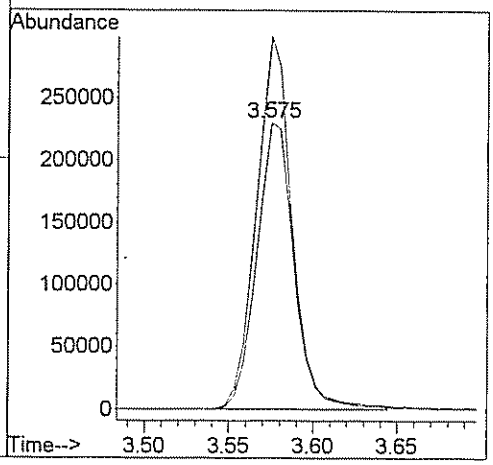


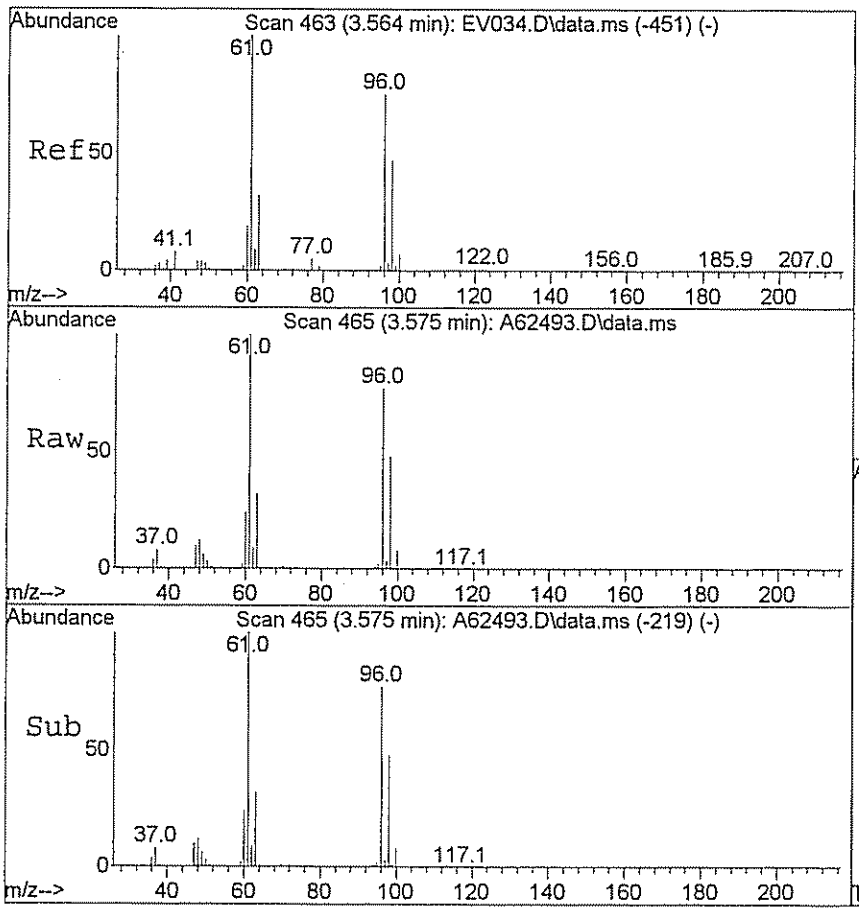


#28
Cis-1,2-dichloroethene
Concen: 180.58 ug/L
RT: 3.575 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62493.D
Acq: 24 Mar 2009 18:17

Tgt Ion: 96 Resp: 352059

Ion	Ratio	Lower	Upper
96	100		
61	126.4	115.0	172.6

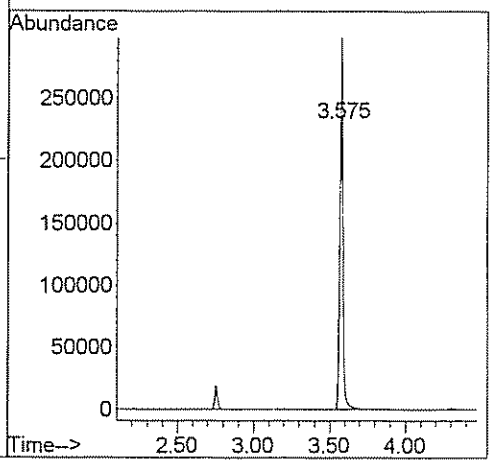


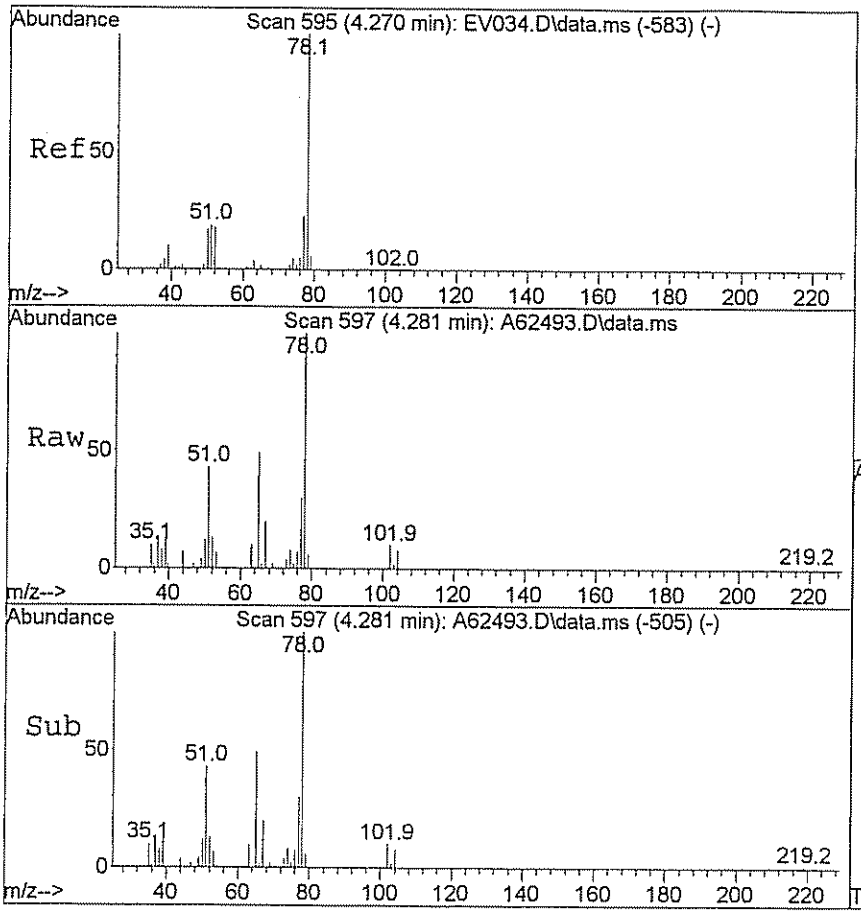


#29
1,2-dichloroethene(total)
Concen: 184.25 ug/L m
RT: 3.575 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62493.D
Acq: 24 Mar 2009 18:17

Tgt Ion: 96 Resp: 380263

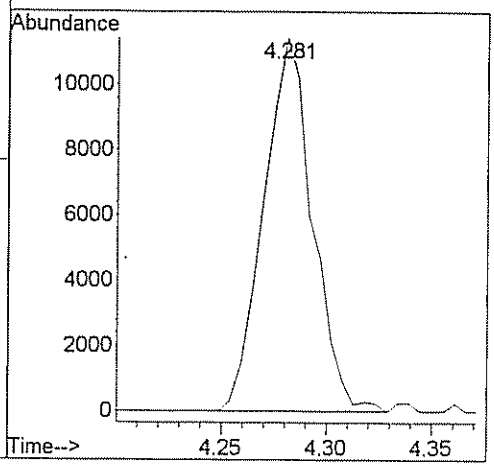
Ion	Ratio	Lower	Upper
96	100		
61	7.3	115.0	172.6#

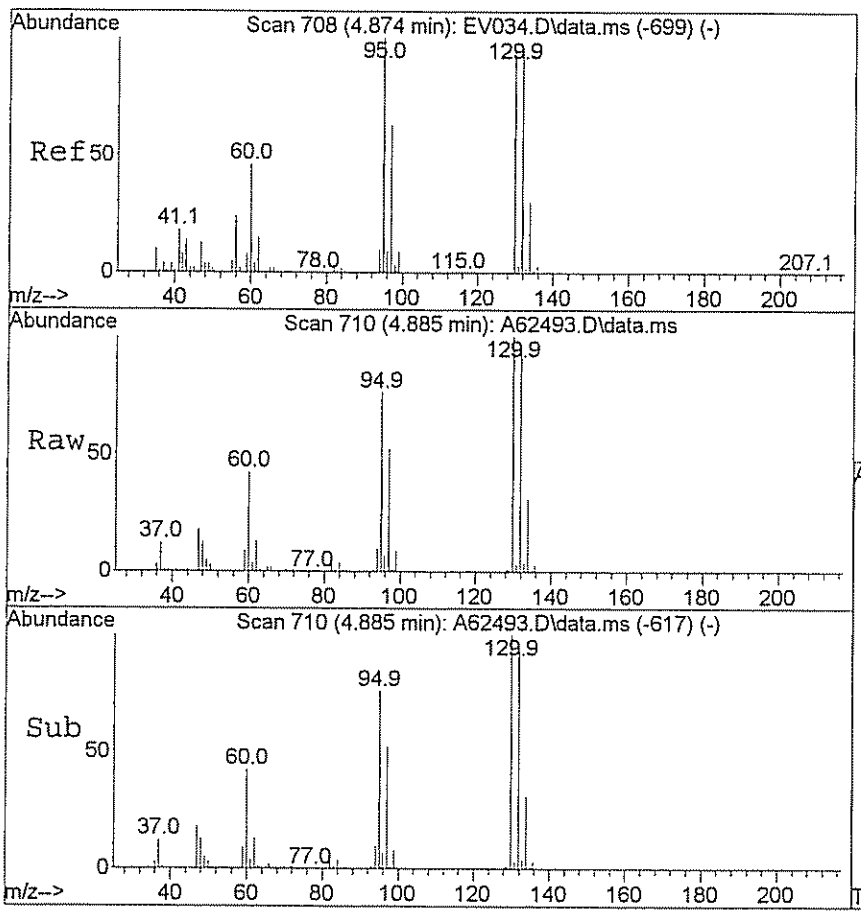




#45
Benzene
Concen: 2.54 ug/L
RT: 4.281 min Scan# 597
Delta R.T. -0.005 min
Lab File: A62493.D
Acq: 24 Mar 2009 18:17

Tgt Ion: 78 Resp: 18498

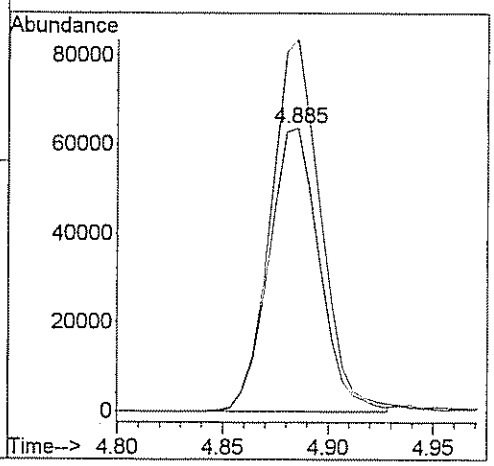




#47
Trichloroethene
Concen: 56.34 ug/L
RT: 4.885 min Scan# 710
Delta R.T. 0.000 min
Lab File: A62493.D
Acq: 24 Mar 2009 18:17

Tgt Ion: 95 Resp: 105318

Ion	Ratio	Lower	Upper
95	100		
130	130.1	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB05-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-006-010-1/3
Sample Volume :	5	Lab File ID :	A62495.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB05-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-006-010-1/3
Sample Volume :	5	Lab File ID :	A62495.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	9.5	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB05-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-006-010-1/3
Sample Volume :	5	Lab File ID :	A62495.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62495.D
Acq On : 24 Mar 2009 18:58
Operator : SM
Sample : 903071-006
Misc : OUI-TB05-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

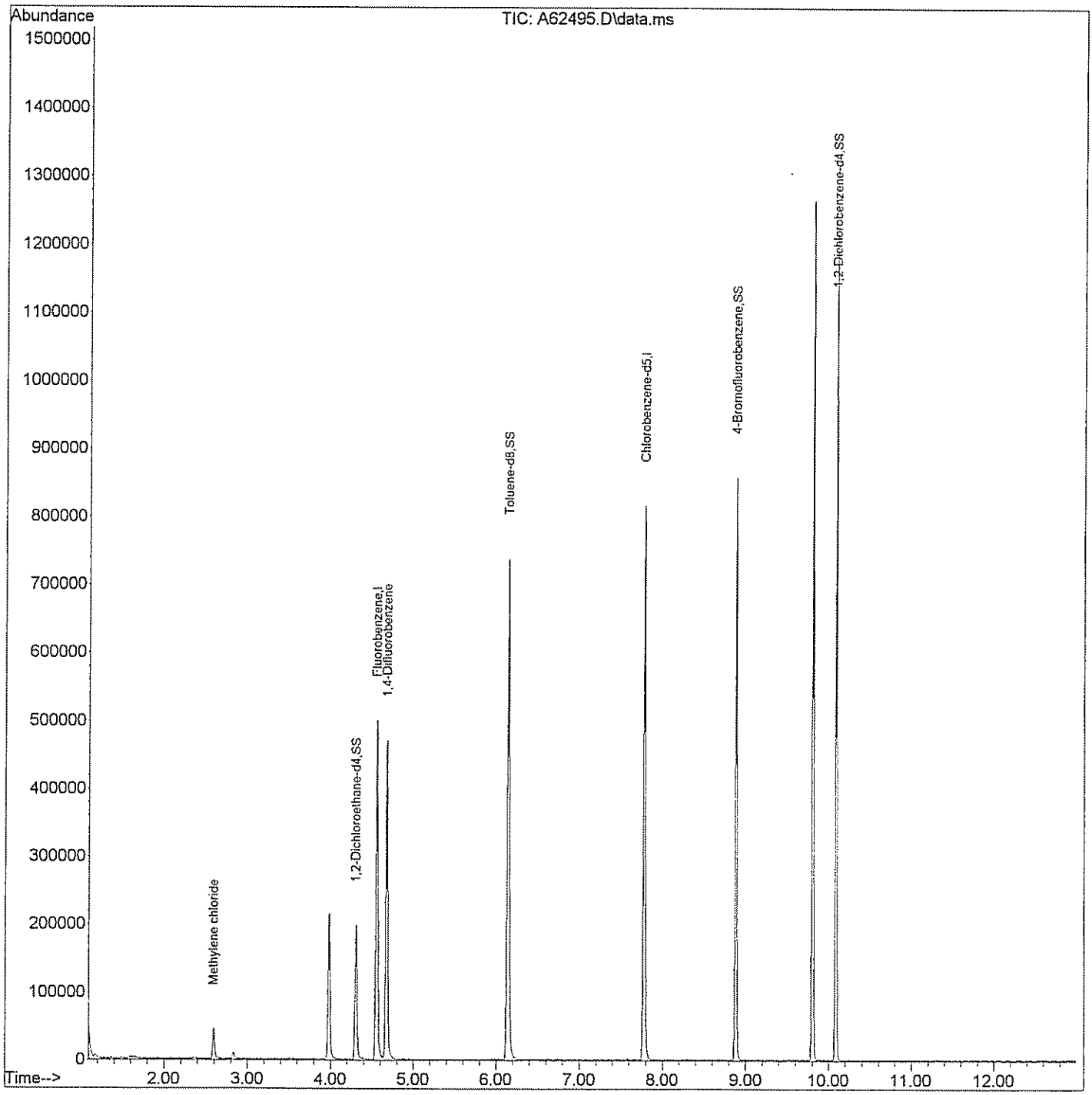
Quant Time: Mar 25 18:02:38 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

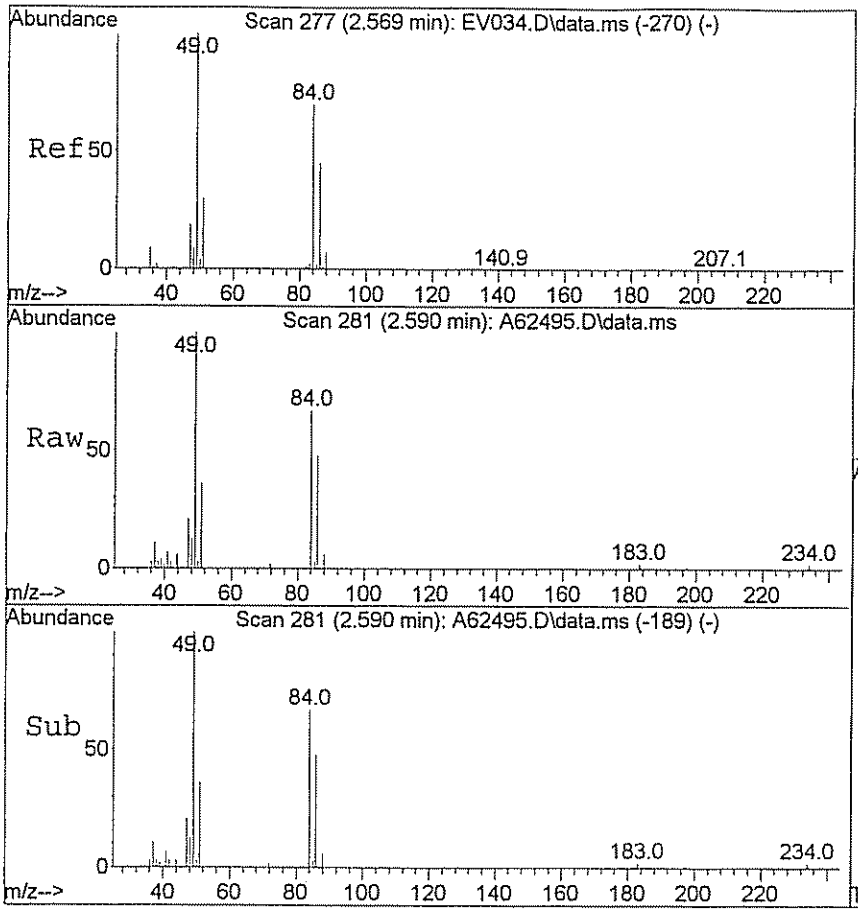
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	369663	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	344267	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	391325	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	101305	51.59	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.18%			
54) Toluene-d8	6.142	98	456648	57.24	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 114.48%			
76) 4-Bromofluorobenzene	8.881	95	175539	47.59	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.18%			
92) 1,2-Dichlorobenzene-d4	10.085	152	206650	57.12	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.24%			
Target Compounds						Qvalue
15) Methylene chloride	2.590	84	14149	9.52	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62495.D
Acq On : 24 Mar 2009 18:58
Operator : SM
Sample : 903071-006
Misc : OUI-TB05-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 25 18:02:38 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

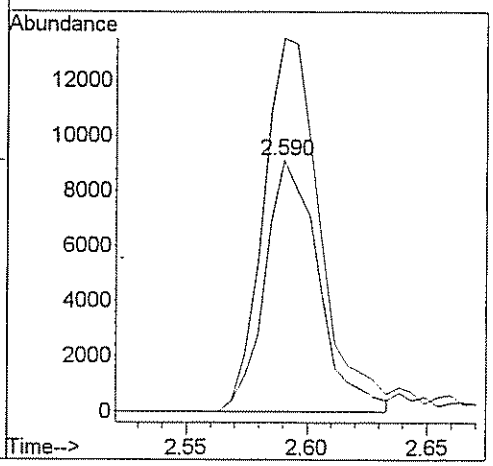




#15
Methylene chloride
Concen: 9.52 ug/L
RT: 2.590 min Scan# 281
Delta R.T. -0.005 min
Lab File: A62495.D
Acq: 24 Mar 2009 18:58

Tgt Ion: 84 Resp: 14149

Ion	Ratio	Lower	Upper
84	100		
49	160.3	125.9	188.9



C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009
Response Via : Initial Calibration

Calibration Files
1 =A62208.D 5 =A62210.D 20 =A62212.D 50 =A62214.D 100 =A62216.D
200 =A62220.D

		Compound	1	5	20	50	100	200	Avg	%R SD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluo...	0.120	0.111	0.119	0.086	0.118	0.123	0.113	12.08
3)		Chloromethane	0.130	0.128	0.142	0.106	0.203		0.142	25.94
4)		Vinyl chloride	0.134	0.140	0.199	0.167	0.224	0.235	0.183	~~23.46~~ r^2=0.99
5)		Bromomethane	0.070	0.054	0.062	0.055	0.080		0.064	17.43
6)		Chloroethane	0.167	0.122	0.140	0.117	0.143	0.163	0.142	14.33
7)		Trichlorofluor...	0.169	0.246	0.270	0.217	0.296		0.239	20.54
8)		Ethyl Ether	0.184	0.185	0.175	0.149	0.191	0.230	0.186	14.22
9)		Freon 113	0.186	0.161	0.176	0.130	0.186	0.179	0.170	12.63
10)		Acrolein		0.055	0.035	0.030	0.038	0.058	0.043	~~28.85~~ r^2=0.99
11)		Tert-Butyl alc...	0.026	0.015	0.013	0.012	0.015	0.037	0.020	~~50.87~~ r^2=0.99
12)		1,1-Dichloroet...	0.203	0.187	0.176	0.140	0.189	0.208	0.184	13.36
13)		Iodomethane	0.081	0.109	0.177	0.181	0.257	0.182	0.164	37.82
14)		Acetonitrile	0.068	0.068	0.088	0.088	0.133	0.131	0.096	~~30.66~~ r^2=0.99
15)		Methylene chlo...	0.408	0.270	0.218	0.182	0.225	0.236	0.257	~~30.95~~ r^2=0.99
16)		Trans-1,2-dich...	0.232	0.181	0.191	0.166	0.217	0.212	0.200	12.32
17)		Isopropyl ether	0.850		0.767	0.665	0.845	0.895	0.805	11.26
18)		1,1-Dichloroet...	0.342	0.335	0.343	0.313	0.402	0.401	0.356	10.34
19)		Acetone	0.172	0.075	0.062	0.056	0.068	0.117	0.092	~~48.84~~ r^2=0.99
20)		Methyl Acetate	0.271	0.158	0.133	0.151	0.158	0.384	0.209	~~47.13~~ r^2=0.99
21)		MTBE	0.578	0.576	0.560	0.483	0.627	0.649	0.579	10.01
22)		Carbon disulfide	1.523	0.763	0.587	0.470	0.611	0.629	0.764	~~50.20~~ r^2=0.99
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile	0.103	0.070	0.061	0.054	0.067	0.097	0.075	~~26.82~~ r^2=0.99
25)		Chloroprene	0.379	0.349		0.270	0.372	0.333	0.341	12.75
26)	T	n-Heptane	0.233	0.164	0.181	0.154	0.163	0.148	0.174	17.86
27)		2,2-Dichloropr...	0.302	0.253	0.292	0.265	0.324	0.309	0.291	9.30
28)		Cis-1,2-dichlo...	0.289	0.221	0.221	0.207	0.248	0.241	0.238	12.28
29)		1,2-dichloroet...		0.211	0.214	0.190	0.235	0.236	0.217	8.87
30)		Propionitrile	0.043	0.032	0.027	0.027	0.030		0.032	20.48
31)		Bromochloromet...	0.120		0.106	0.105	0.120	0.128	0.115	8.57
32)		Tetrahydrofuran	0.064	0.054	0.051	0.050	0.056	0.082	0.059	20.48
33)		Chloroform	0.488	0.356	0.351	0.347	0.418	0.460	0.403	15.18
34)		Cyclohexane	0.624	0.344	0.365	0.320	0.372	0.360	0.398	~~28.35~~ r^2=0.9
35)		1,1,1-Trichlor...	0.302	0.283	0.291	0.299	0.329	0.339	0.307	7.22
36)		Carbon tetrach...	0.150	0.170	0.251	0.261	0.291	0.270	0.232	~~24.84~~ r^2=0.99
37)		Methylcyclohexane	0.373	0.314	0.345	0.327	0.363	0.328	0.342	6.72
38)		Isobutyl Alcohol	0.021	0.014	0.017	0.014	0.015	0.014	0.016	16.89
39)	SS	1,2-Dichloroet...	0.274	0.278	0.271	0.267	0.271	0.296	0.276	3.84
40)		1,4-Difluorobenzene	----------ISTD----------							
41)		2-Butanone	0.276	0.183	0.150	0.139	0.165	0.234	0.191	~~27.74~~ r^2=0.99
42)		1,1-Dichloropr...	0.318	0.297	0.314	0.325	0.352	0.348	0.326	6.44

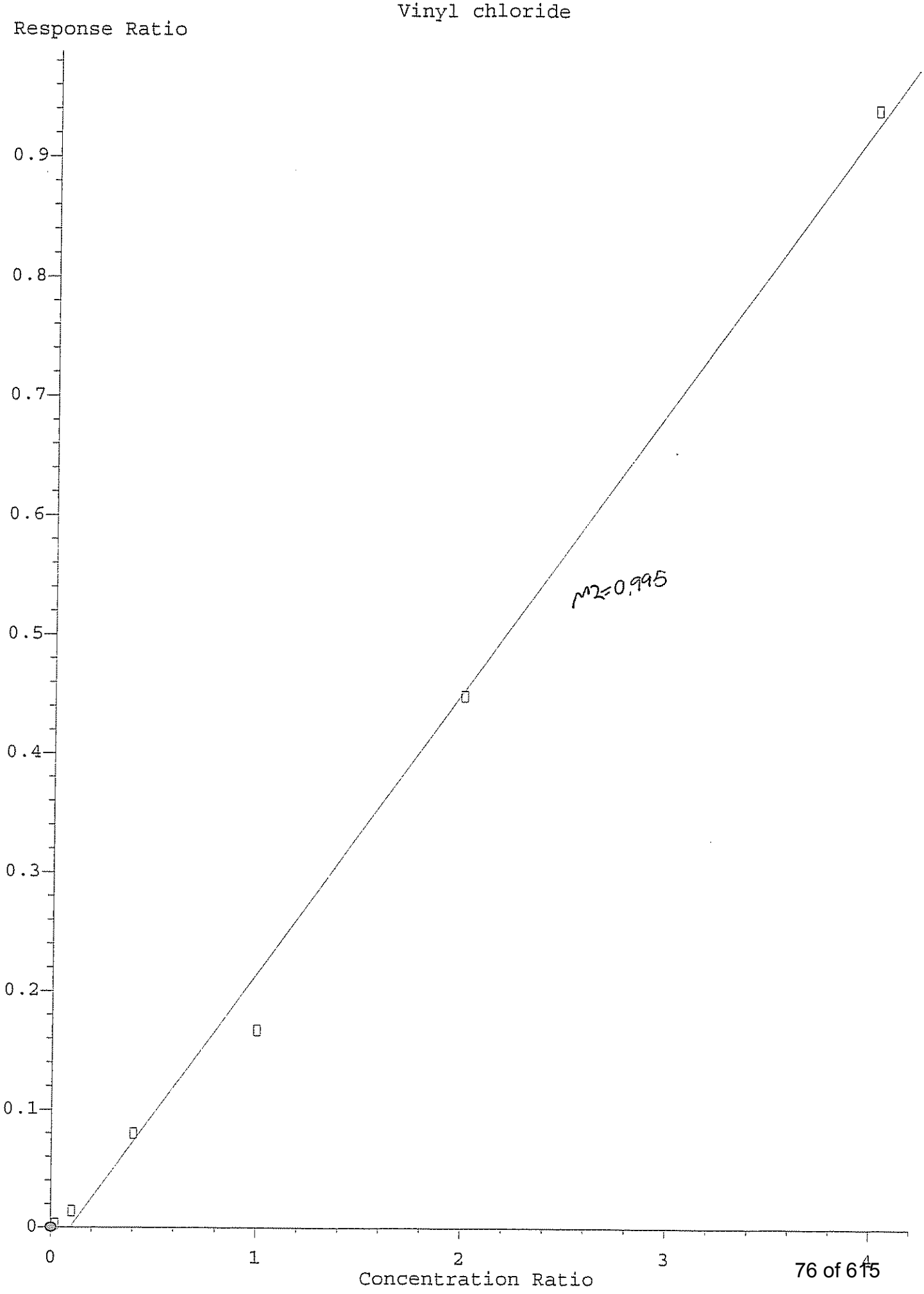
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

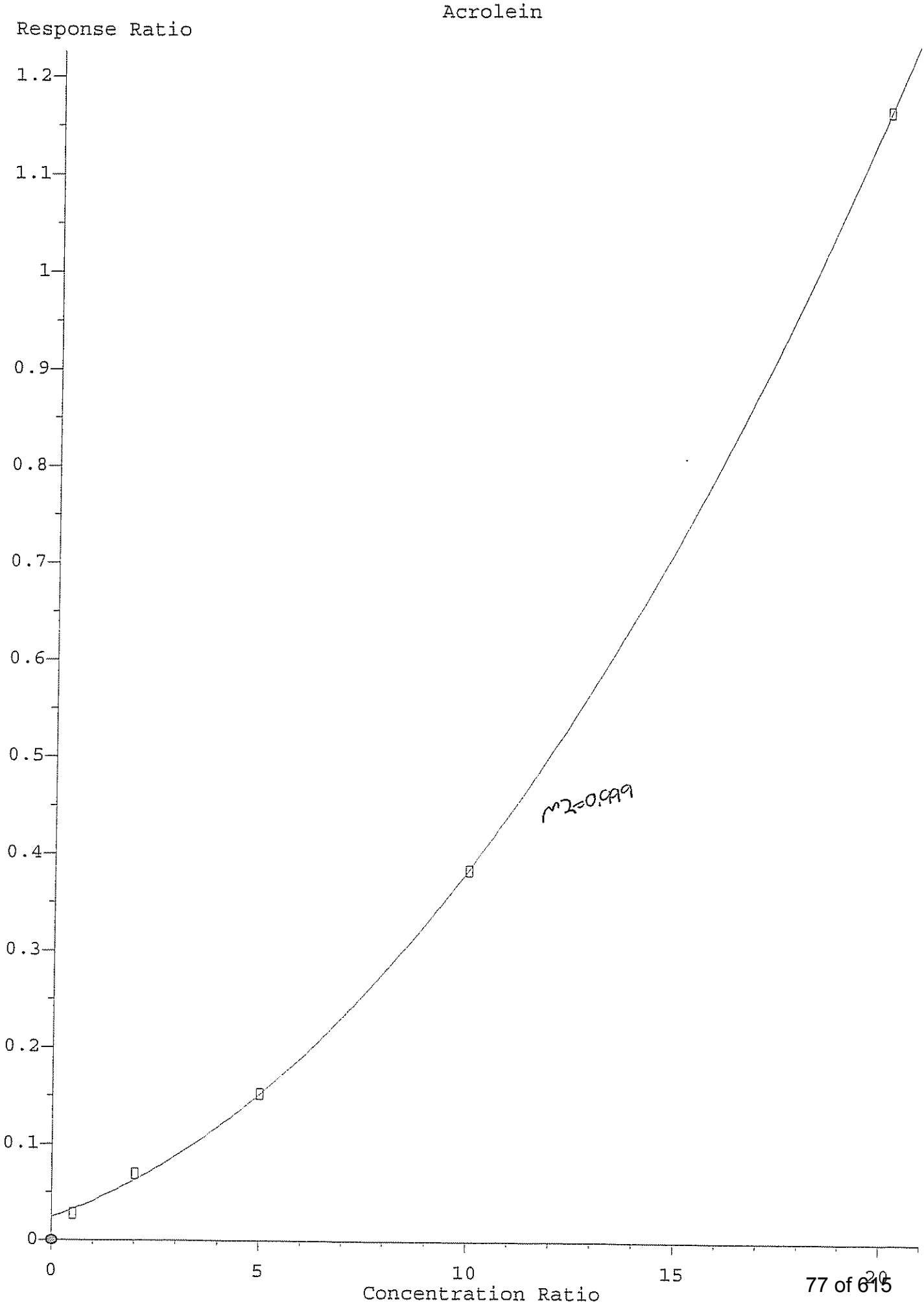
43)		Vinyl Acetate	0.355	0.307		0.299	0.425	0.399	0.357	15.52
44)		Benzene	1.162	1.016	0.997	1.042	1.084	1.166	1.078	6.77
45)		1,2-Dichloroet...	0.321	0.321	0.325	0.338	0.359	0.378	0.340	6.86
46)		Trichloroethene	0.302	0.290	0.250	0.265	0.269	0.282	0.276	6.77
47)		1,2-Dichloropr...	0.271	0.259	0.255	0.291	0.292	0.314	0.280	8.00
48)		Methyl methacr...	0.306	0.199	0.189	0.198	0.197	0.239	0.221	~~20.32~~ r^2=0.99
49)		Dibromomethane	0.151	0.152	0.164	0.176	0.180	0.198	0.170	10.64
50)		Bromodichlorom...	0.384	0.294	0.339	0.371	0.375	0.400	0.361	10.59
51)		2-Chloroethylv...	0.166	0.177	0.173	0.188	0.198	0.226	0.188	11.62
52)		Cis-1,3-dichlo...	0.282	0.339		0.457	0.463	0.499	0.408	~~22.73~~ r^2=0.99
53)	SS	Toluene-d8	1.145	1.137	1.147	0.834	1.137	1.258	1.110	12.88
54)		Toluene	0.558	0.576	0.613	0.509	0.688		0.589	11.38
55)		Trans-1,3-dich...	0.300		0.366	0.310	0.411	0.476	0.372	19.64
56)		Ethyl methacry...	0.350	0.351	0.329	0.276		0.437	0.349	16.62
57)		1,1,2-Trichlor...	0.267	0.199	0.198	0.162	0.215		0.208	18.35
58)	I	Chlorobenzene-d5	----------ISTD----------							
59)		4-Methyl-2-pen...	0.448	0.306	0.309	0.325	0.335	0.376	0.350	15.51
60)		2-Hexanone	0.310	0.216	0.205	0.233	0.226	0.248	0.240	15.66
61)		Tetrachloroethene	0.213	0.252	0.268	0.281	0.295	0.277	0.264	11.02
62)		1,3-Dichloropr...	0.377	0.381	0.401	0.426	0.425	0.421	0.405	5.47
63)		Dibromochlorom...	0.220	0.243	0.272	0.303	0.315	0.315	0.278	14.36
64)		1,2-Dibromoethane	0.213	0.229	0.251	0.272	0.268	0.275	0.251	10.06
65)		1-Chlorohexane	0.529	0.403	0.371	0.396	0.400	0.392	0.415	13.76
66)		Chlorobenzene	0.727	0.736	0.798	0.865	0.892	0.909	0.821	9.61
67)		1,1,1,2-Tetrac...	0.206		0.283	0.330	0.345	0.362	0.305	~~20.59~~ r^2=0.99
68)		Ethylbenzene	1.250		1.301	1.441	1.467	1.554	1.403	8.89
69)		m,p-Xylene	0.497		0.533	0.593	0.610	0.662	0.579	11.23
70)		o-Xylene	0.464	0.535	0.537	0.607	0.623	0.660	0.571	12.59
71)		Xylene (Total)	0.486	0.528	0.536	0.601	0.614	0.670	0.573	11.81
72)		Styrene	0.844	0.875	0.906	1.015	1.024	1.094	0.959	10.27
73)		Bromoform	0.116	0.146	0.183	0.211	0.219	0.245	0.187	~~25.82~~ r^2=0.99
74)		Isopropylbenzene	1.112	1.127	1.193	1.321	1.373	1.484	1.268	11.70
75)	SS	4-Bromofluorob...	0.493	0.497	0.482	0.500	0.491	0.514	0.496	2.12
76)		Bromobenzene	0.331		0.329	0.375	0.368	0.409	0.362	9.18
77)		1,1,2,2-Tetrac...	0.409	0.350	0.353	0.390	0.391	0.432	0.387	8.21
78)		1,2,3-Trichlor...	0.110	0.118	0.106	0.114	0.114	0.132	0.116	7.90
79)		n-Propylbenzene	1.491	1.574	1.624	1.835	1.809	1.975	1.718	10.71
80)		Trans-1,4-dich...	0.090	0.091	0.100	0.116	0.119	0.143	0.110	18.56
81)		2-Chlorotoluene	0.318	0.344	0.342	0.399	0.389	0.419	0.368	10.71
82)		4-Chlorotoluene	0.338		0.369	0.414	0.404	0.433	0.392	9.73
83)		1,3,5-Trimethy...	1.052		1.205	1.397	1.408	1.590	1.331	15.55
84)		Tert-butylbenzene	0.951		1.060	1.235	1.263	1.433	1.188	15.76
85)		Pentachloroethane							0.000	-1.00
86)		1,2,4-Trimethy...	1.269		1.244	1.445	1.449	1.671	1.416	12.12
87)		Sec-Butylbenzene	1.559		1.670	1.913	1.912	2.147	1.840	12.53
88)		1,3-Dichlorobe...	0.718		0.695	0.816	0.814	0.982	0.805	14.06
89)		4-Isopropyltol...	1.343	1.326	1.420	1.664	1.697	2.024	1.579	17.07
90)		1,4-Dichlorobe...	0.716		0.720	0.833	0.822	0.928	0.804	11.04
91)	SS	1,2-Dichlorobe...	0.527	0.540	0.530	0.544	0.532	0.576	0.541	3.33
92)		1,2-Dichlorobe...	0.720		0.691	0.789	0.783	0.884	0.773	9.59
93)		n-Butylbenzene	1.464	1.337	1.352	1.543	1.549	1.732	1.496	9.82
94)		1,2-Dibromo-3-...	0.065	0.072	0.069	0.079	0.078	0.096	0.077	14.47
95)		1,2,4-Trichlor...	0.544		0.445	0.520	0.509	0.627	0.529	12.45
96)		Hexachlorobuta...	0.281		0.192	0.208	0.221	0.274	0.235	17.09

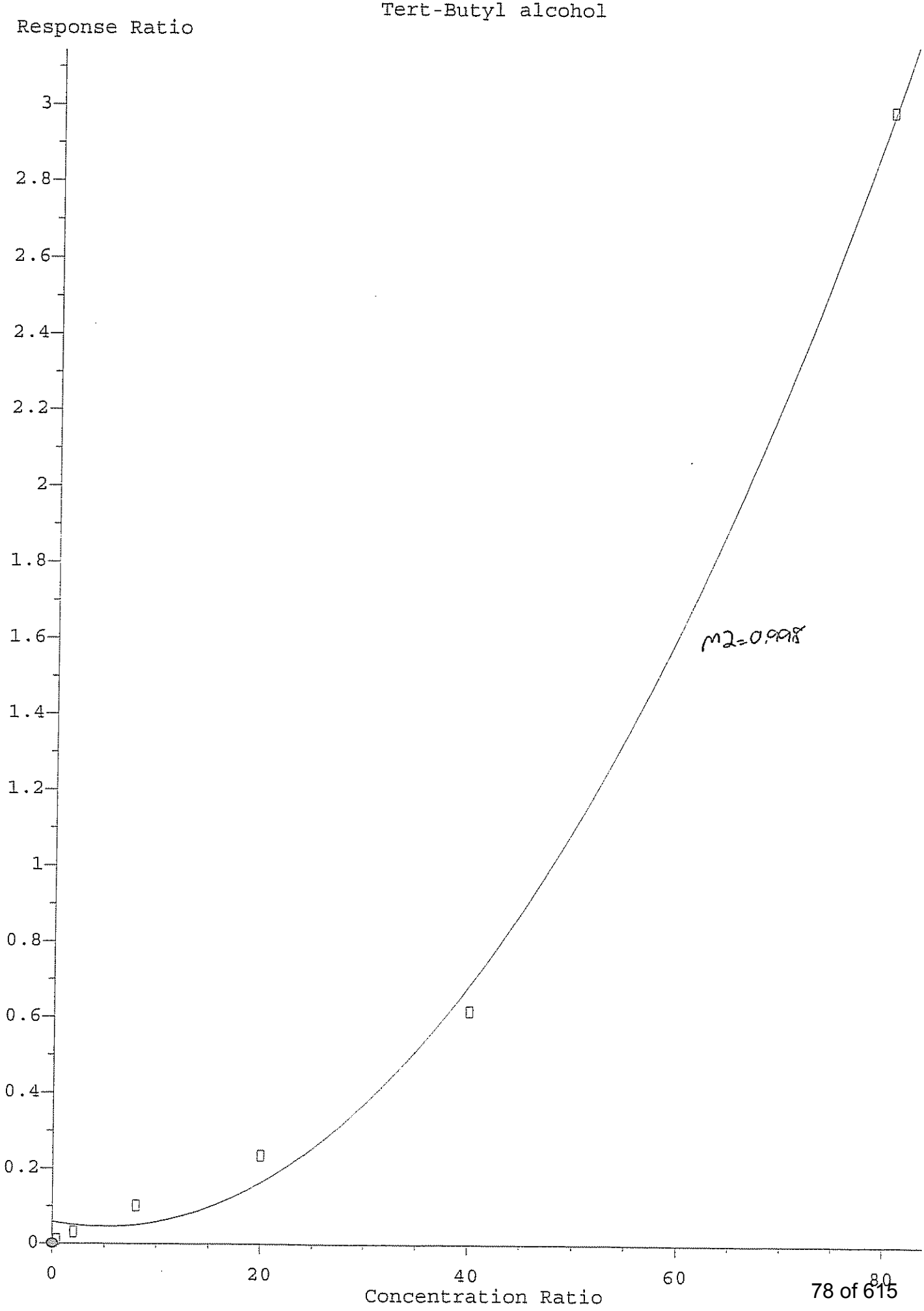
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

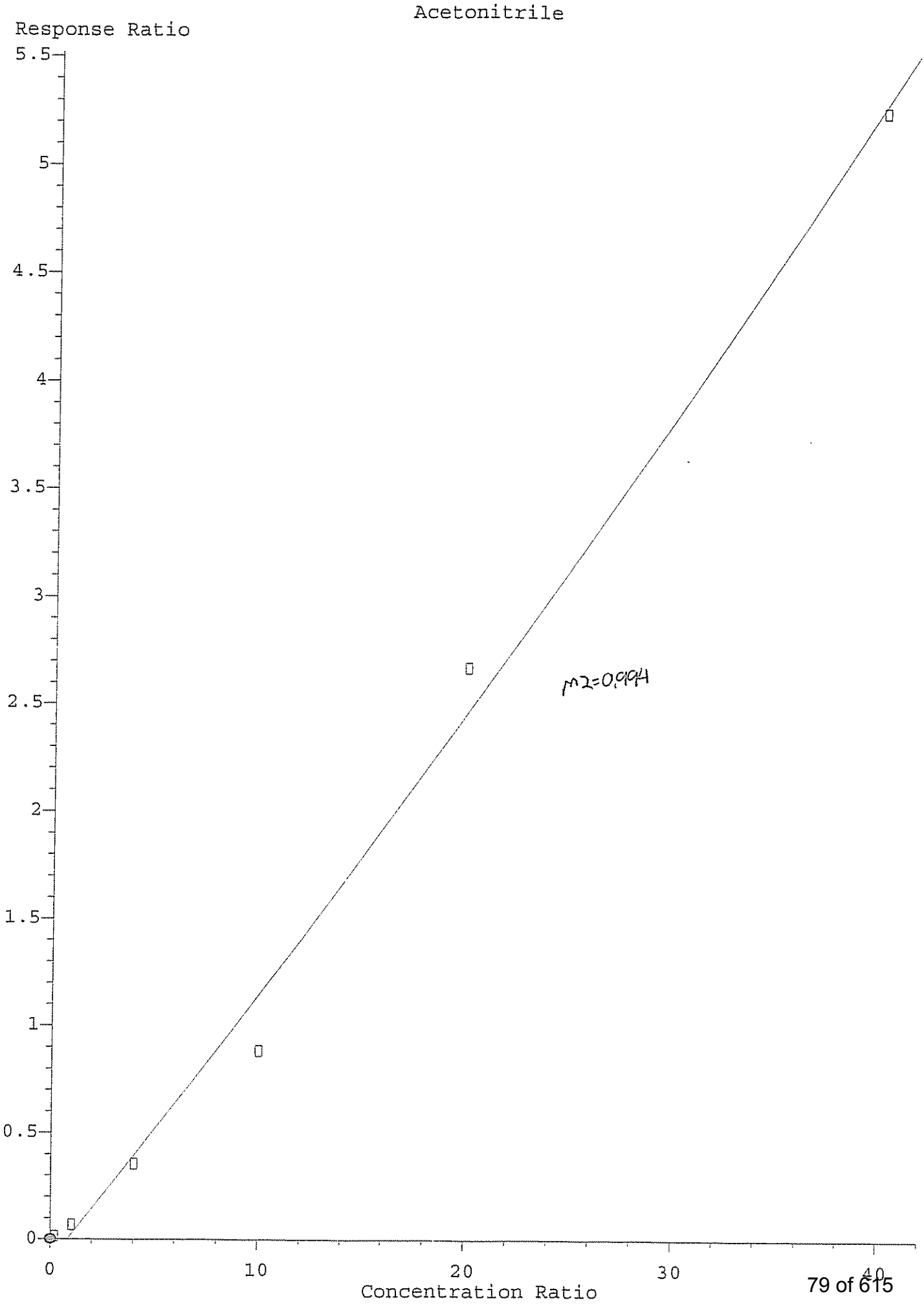
97)	Naphthalene	1.475	1.372	1.280	1.433	1.414	1.706	1.447	9.91
98)	1,2,3-Trichlor...	0.492		0.401	0.469	0.454	0.549	0.473	11.47

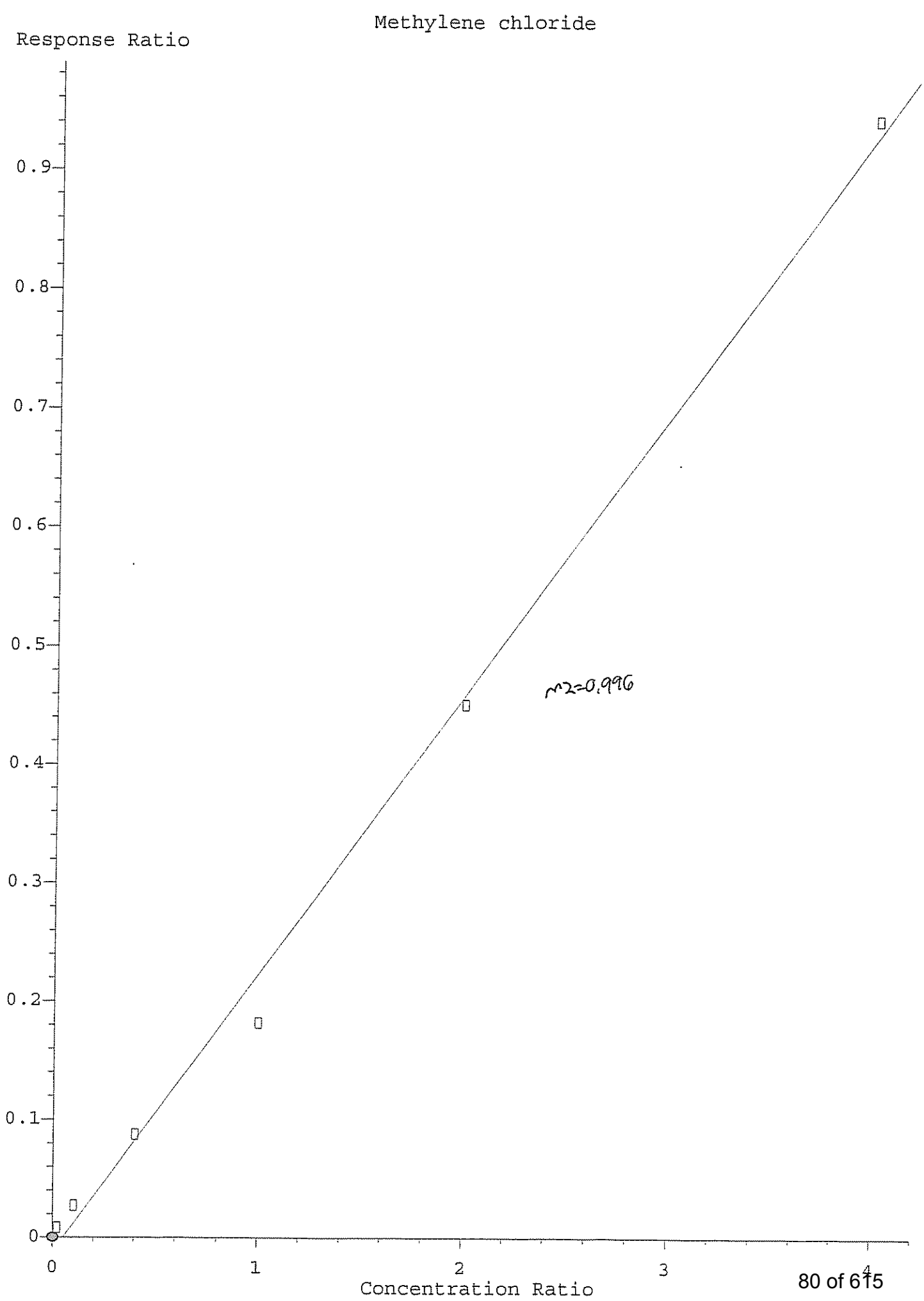
(#) = Out of Range

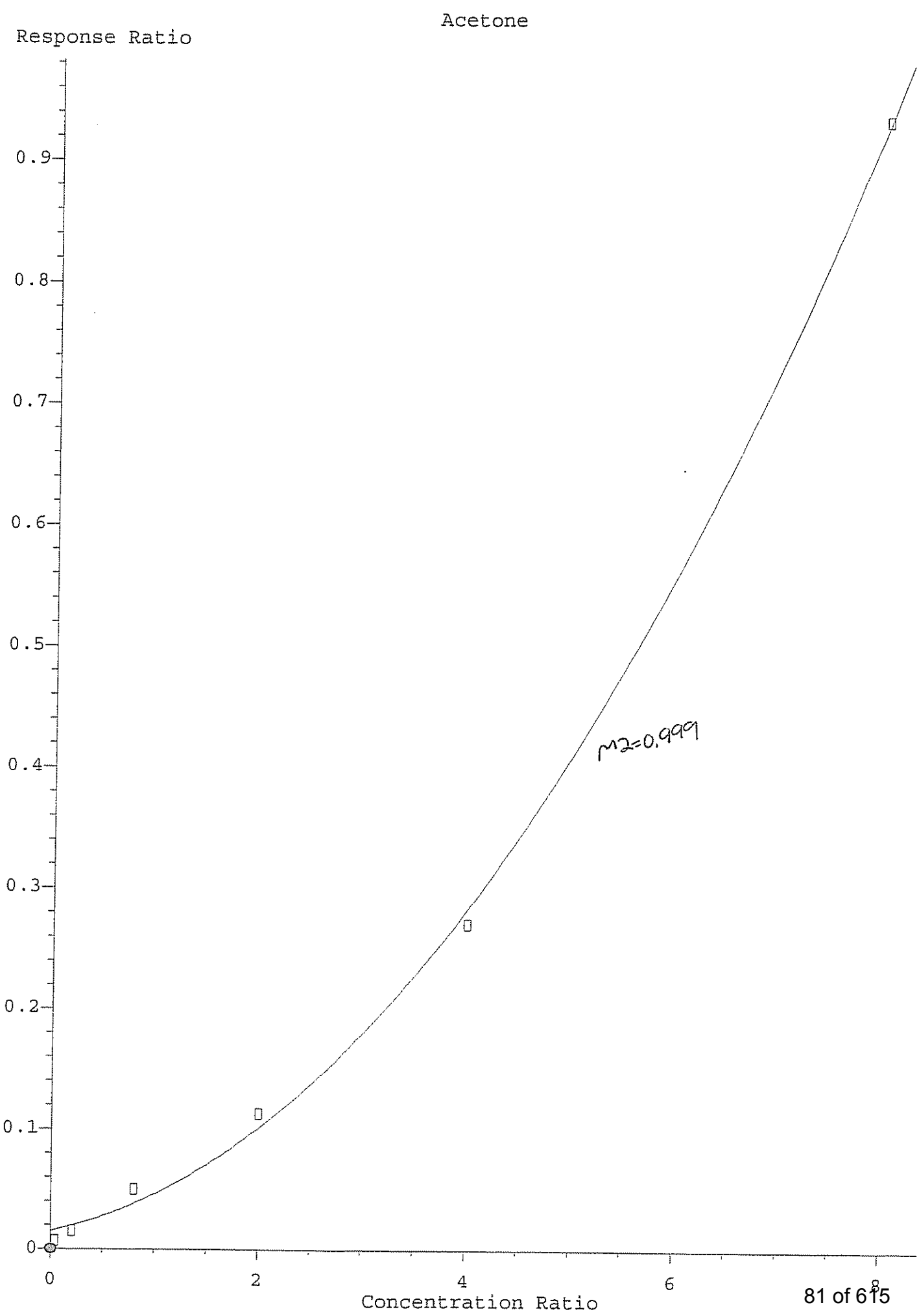

Vinyl chloride
Response Ratio
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
R2=0.995

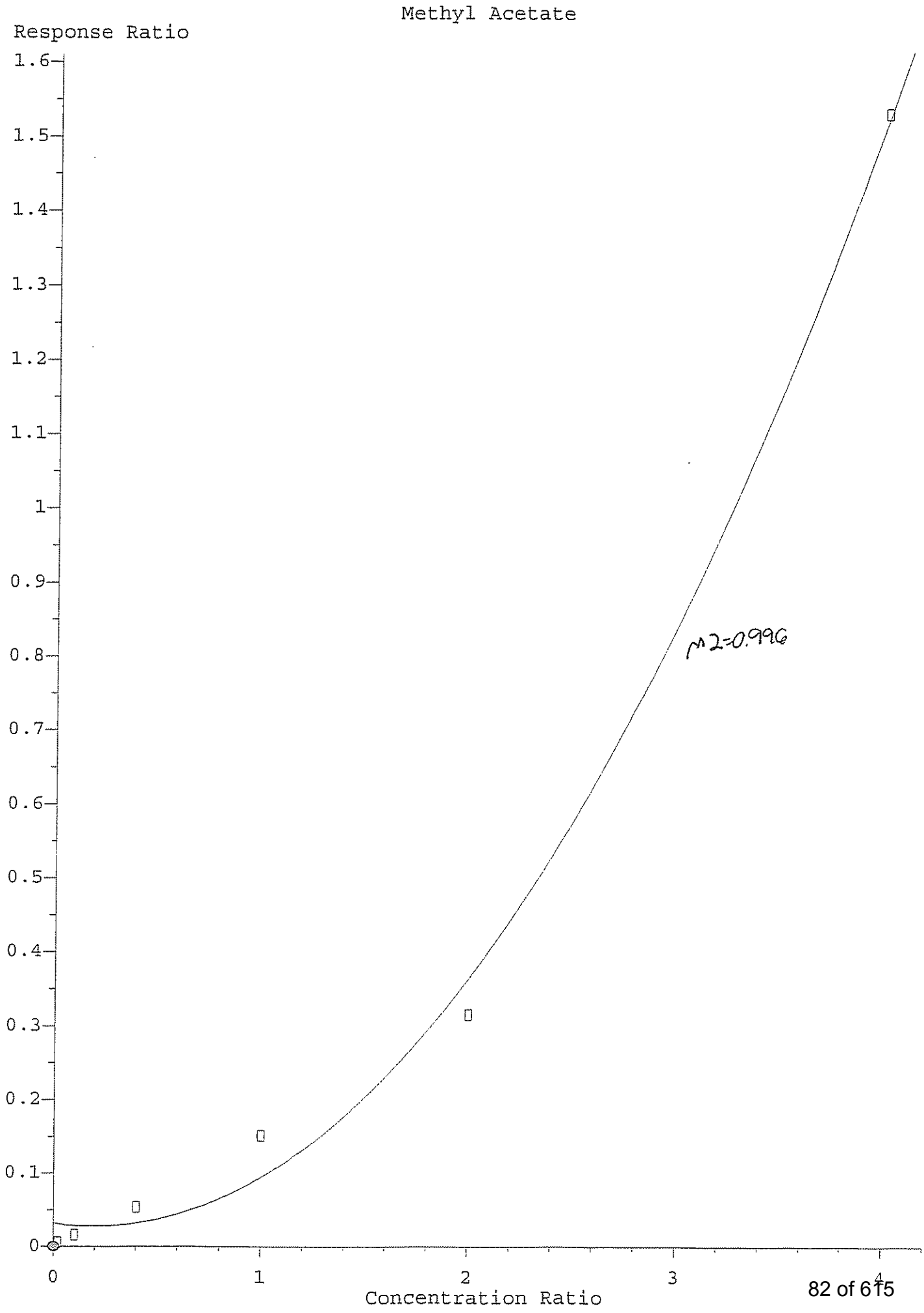

Acrolein
Response Ratio
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5
10
15
20
Concentration Ratio
r^2=0.999

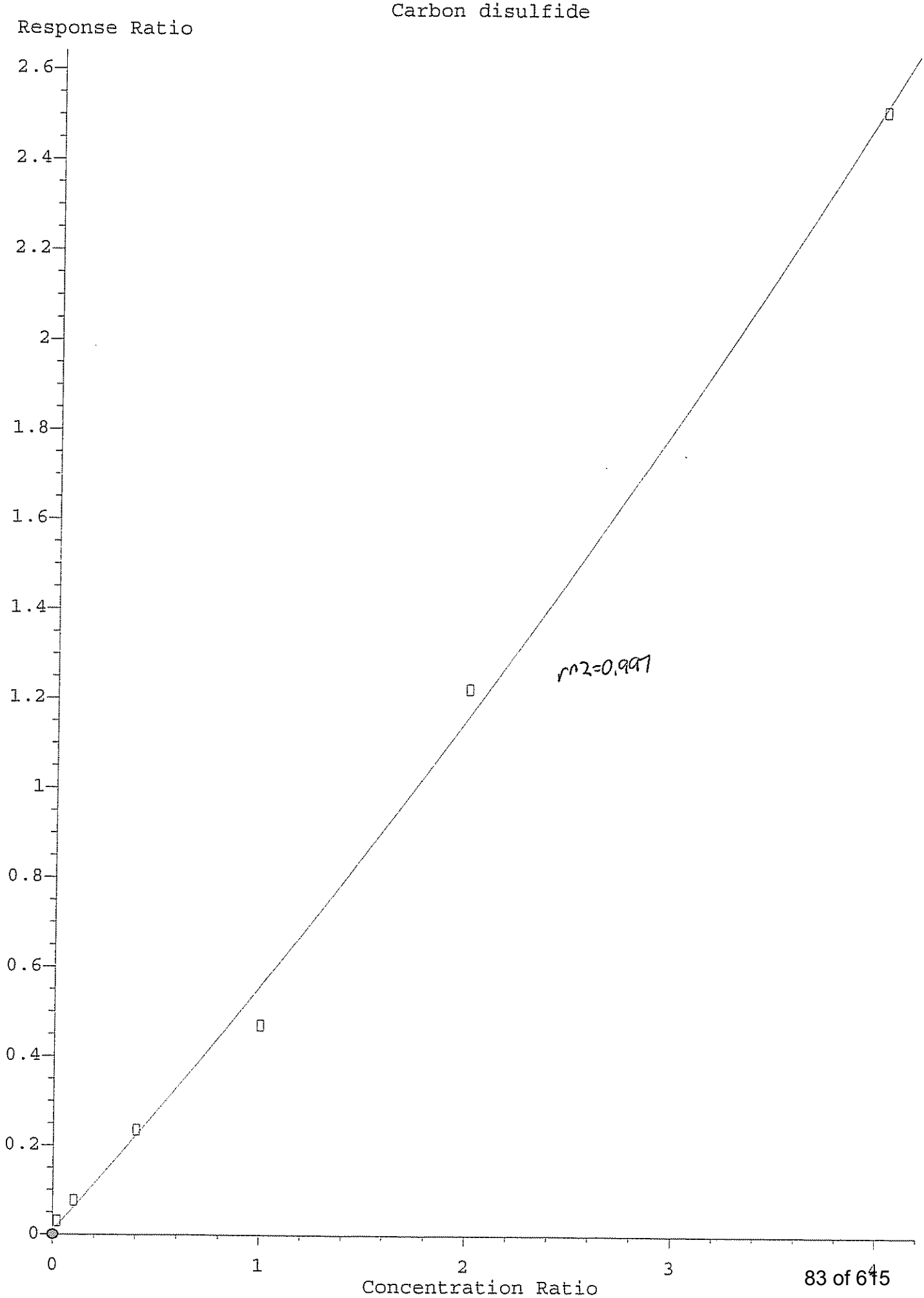

Tert-Butyl alcohol
Response Ratio
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
Concentration Ratio
R2=0,998

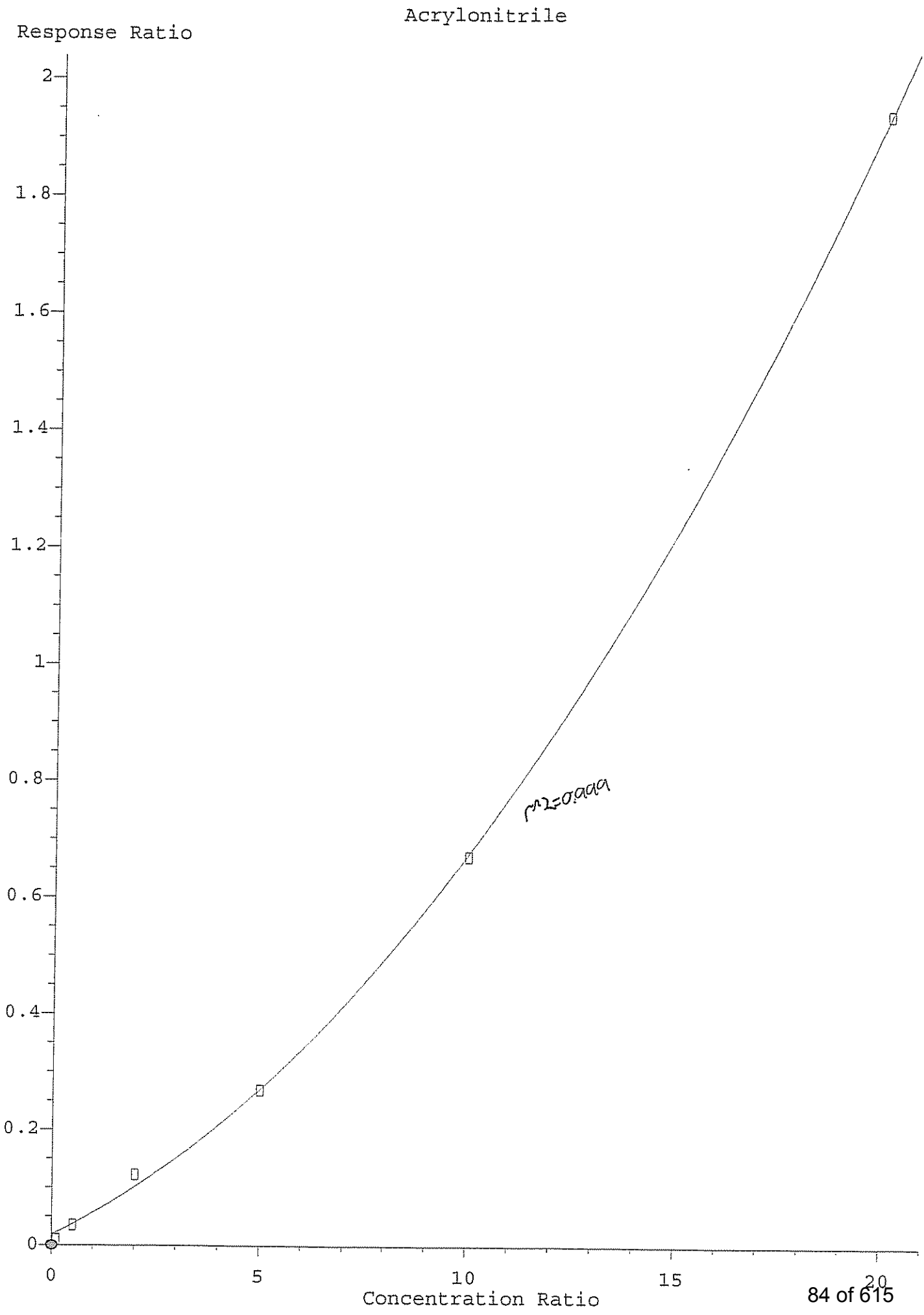

Acetonitrile
Response Ratio
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0
10
20
30
40
Concentration Ratio
r^2=0.994

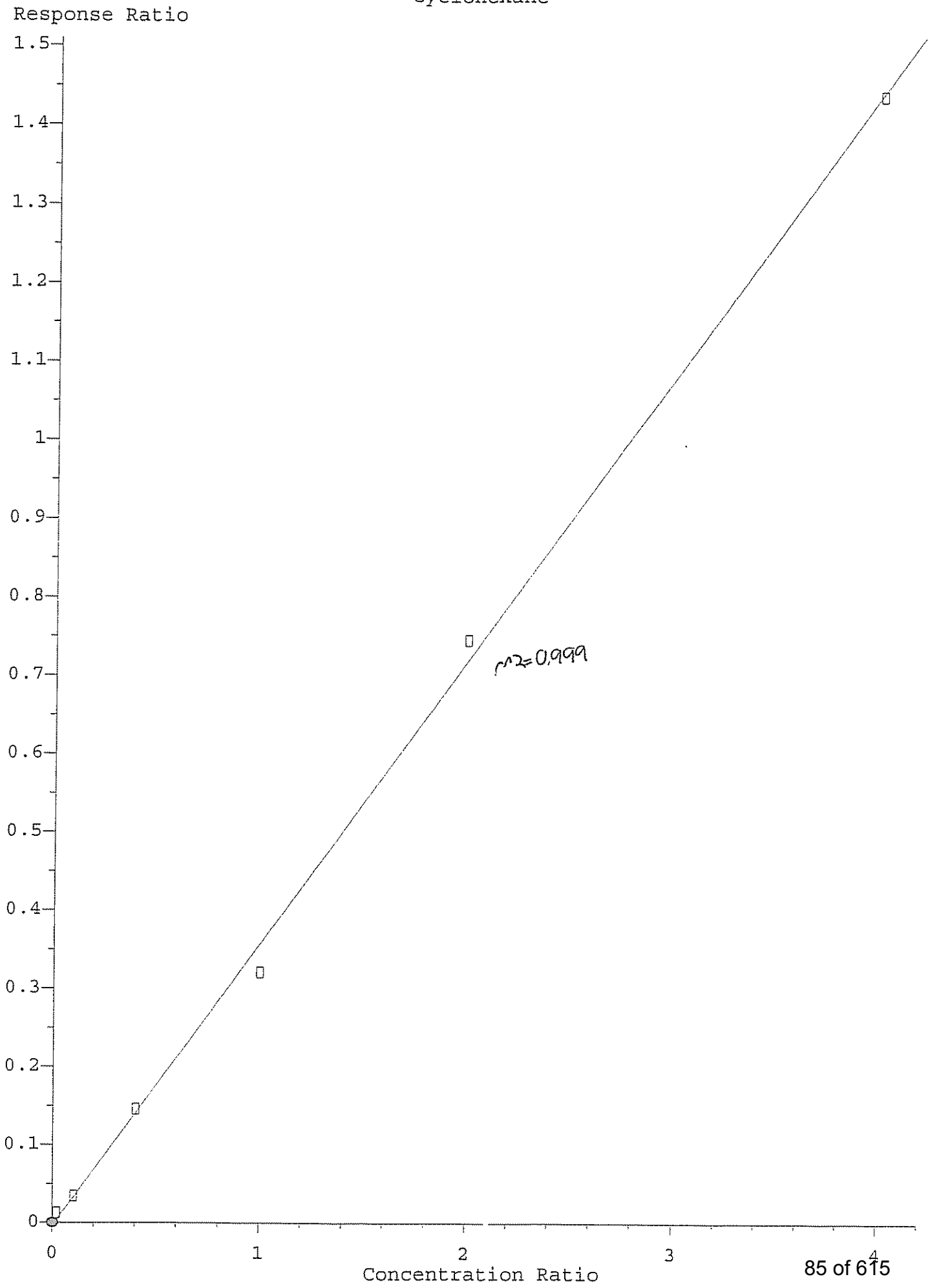

Methylene chloride
Response Ratio
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.996

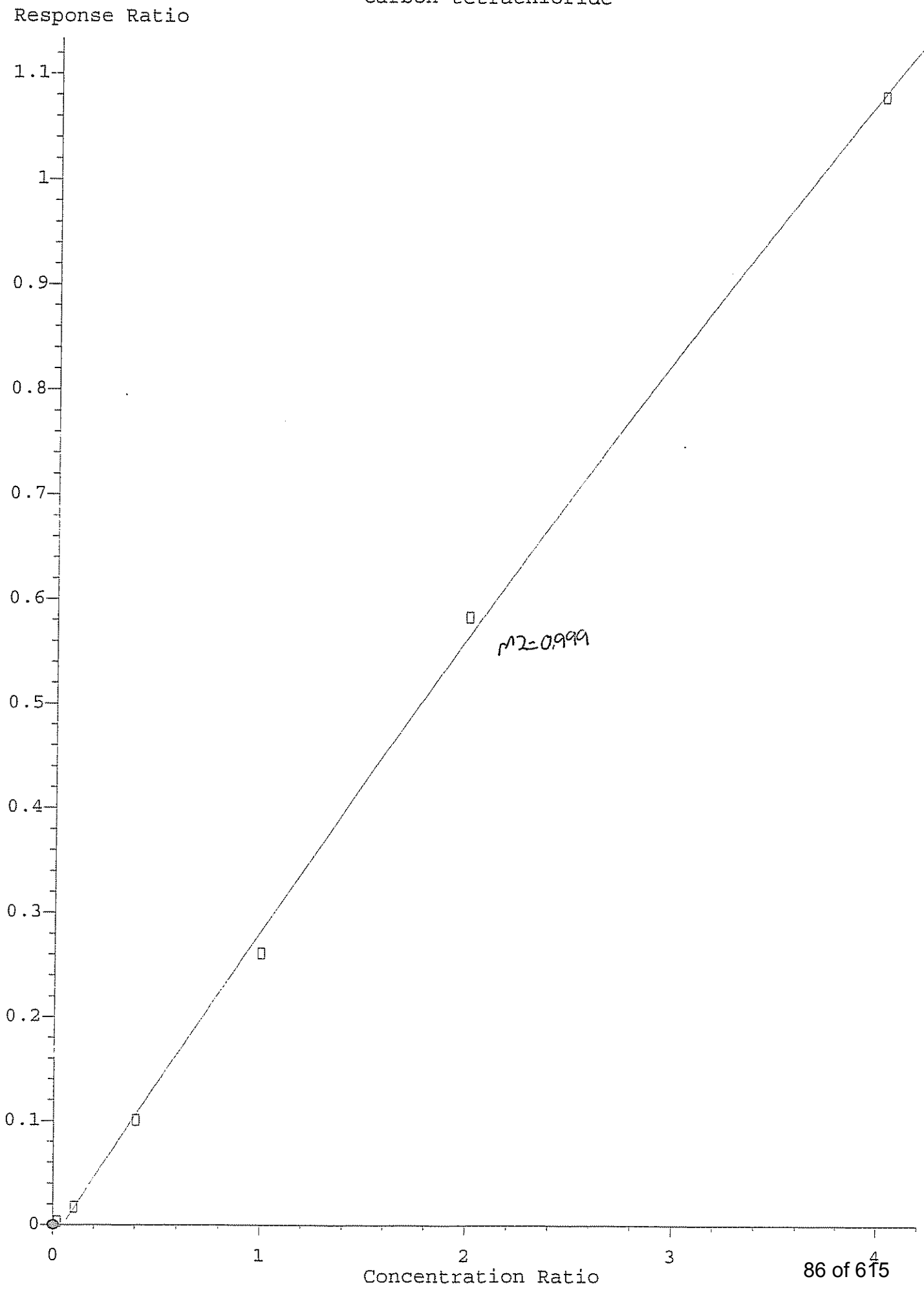

Acetone
Response Ratio
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
2
4
6
8
Concentration Ratio
R2=0.999

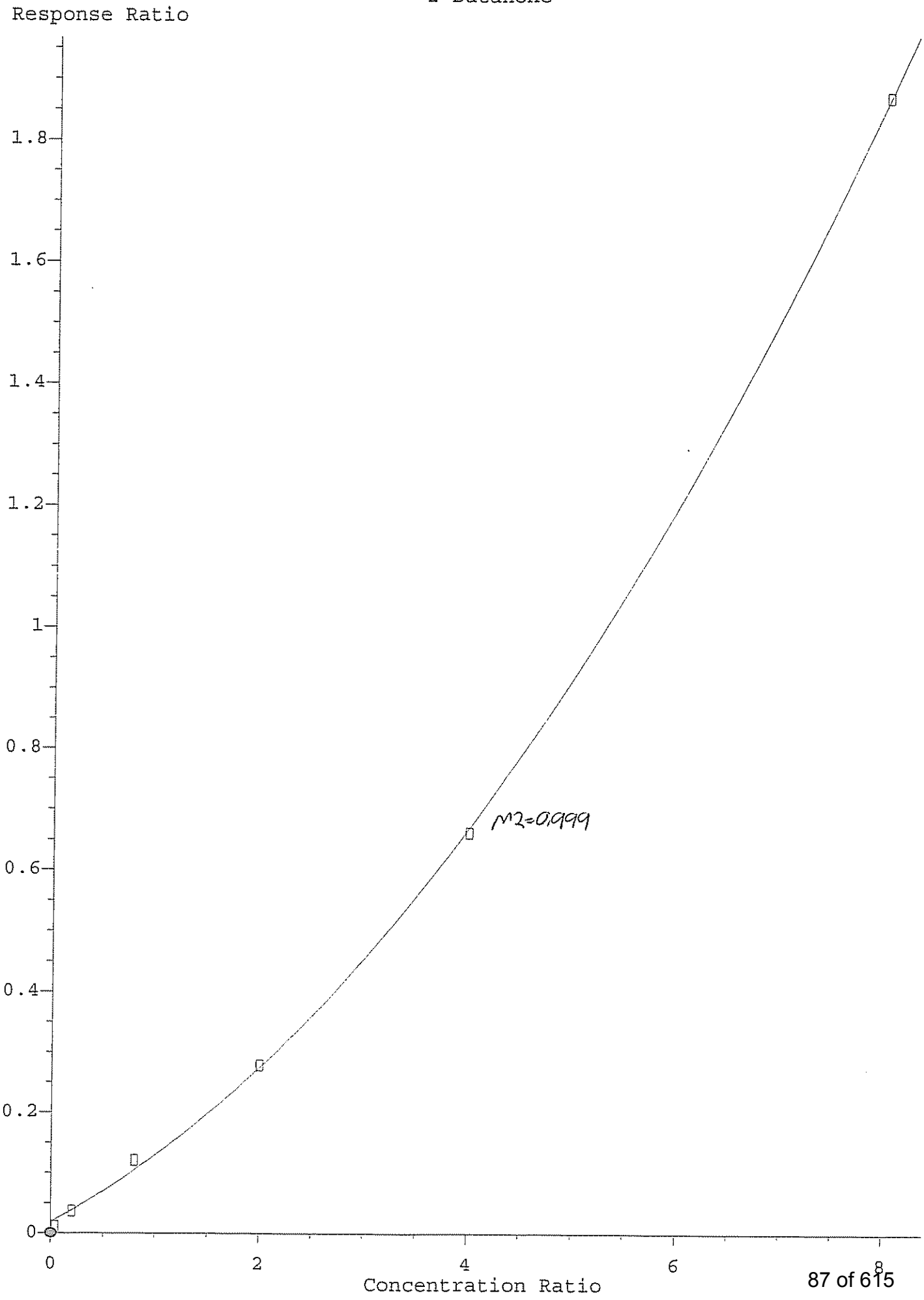

Methyl Acetate
Response Ratio
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
R^2=0.996

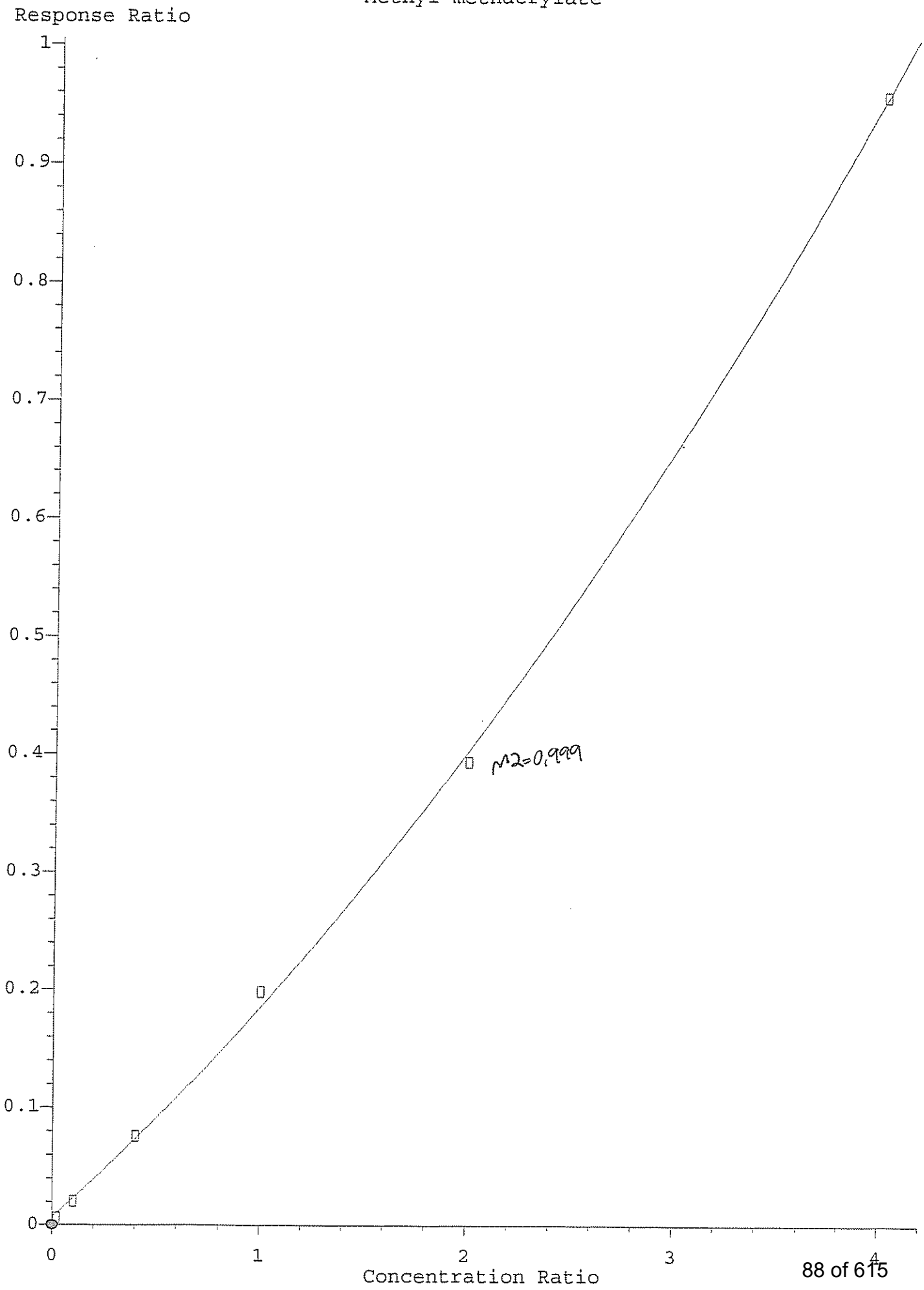

Carbon disulfide
Response Ratio
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
Concentration Ratio
rm2=0.991

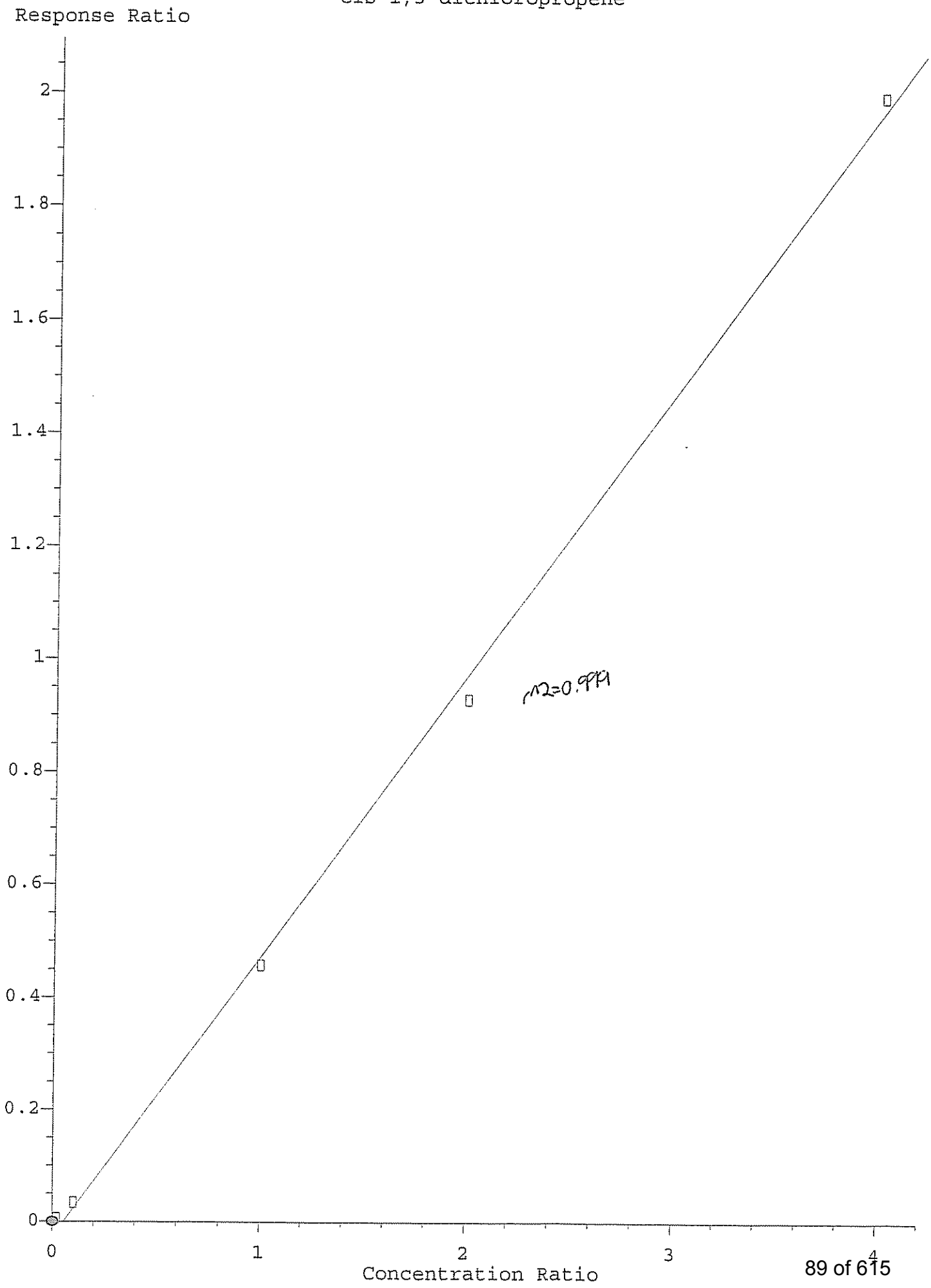

Acrylonitrile
Response Ratio
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
5
10
15
20
Concentration Ratio
r^2=0.999

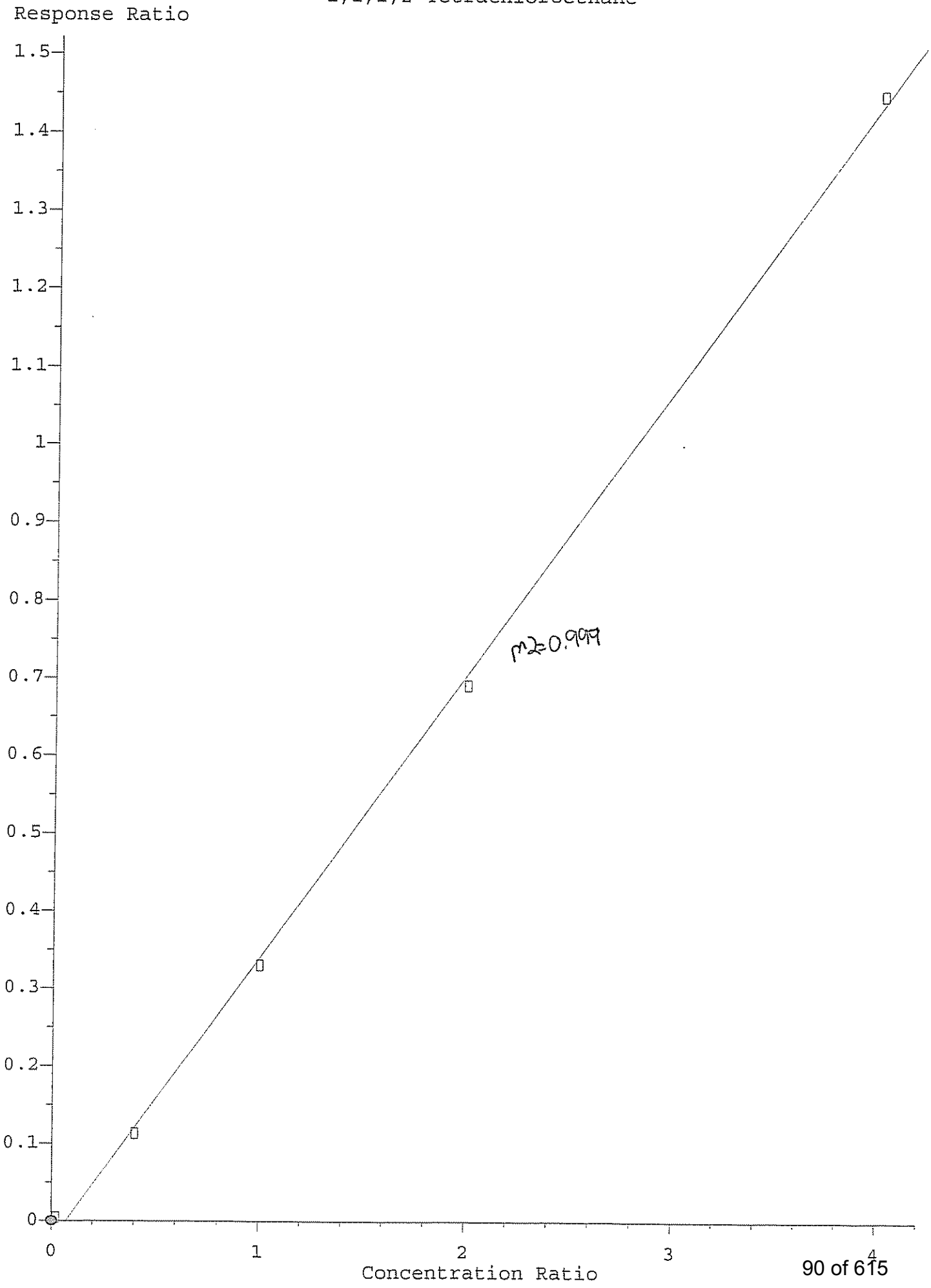

Cyclohexane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
r^2=0.999
0
1
2
3
4
Concentration Ratio

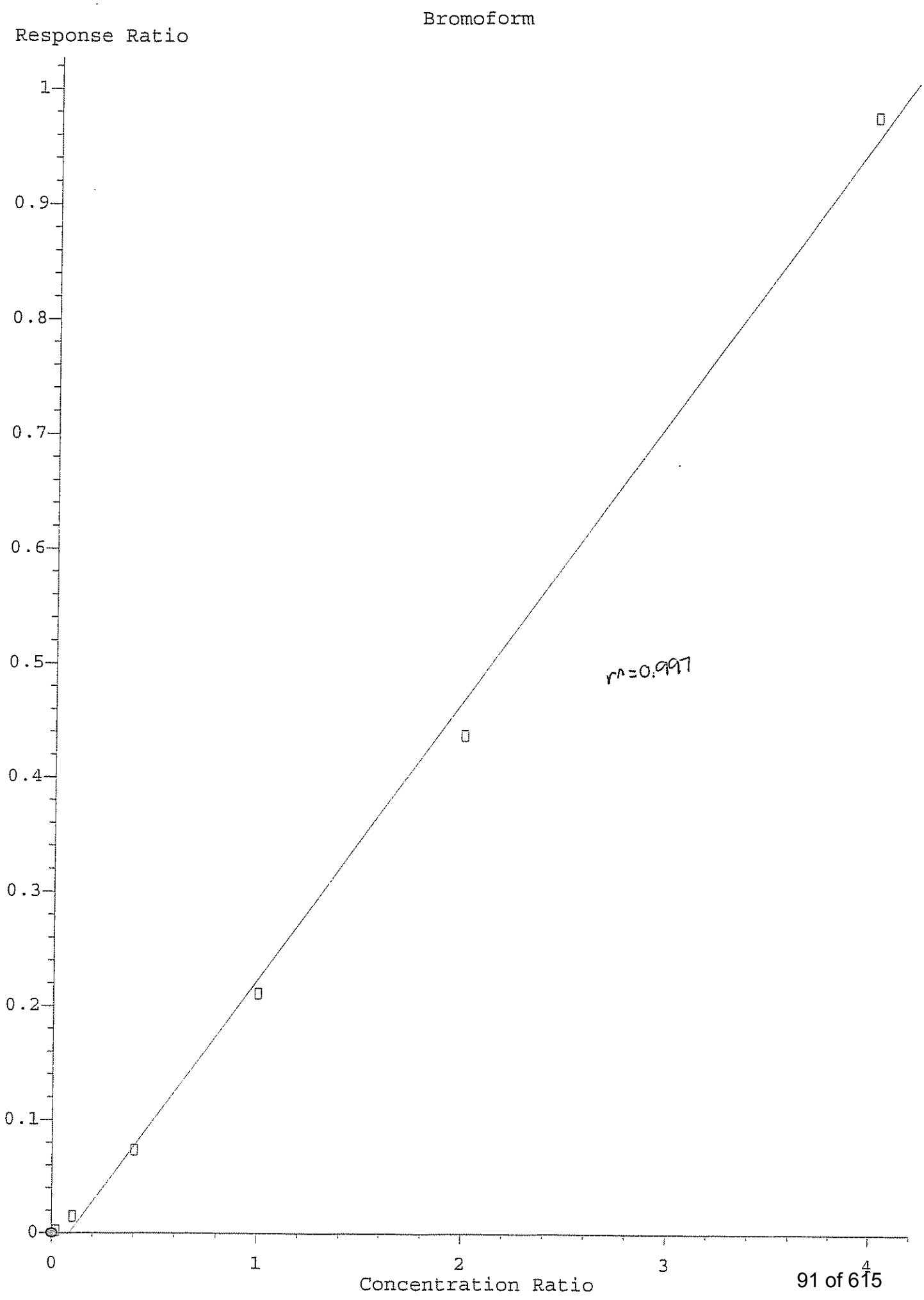

Carbon tetrachloride
Response Ratio
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.999


2-Butanone
Response Ratio
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
Concentration Ratio
R2=0.999


Methyl methacrylate
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
R2=0,999


Cis-1,3-dichloropropene
Response Ratio
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
Concentration Ratio
r^2=0.999


1,1,1,2-Tetrachloroethane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.999


Bromoform
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^=0.997

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	377073	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.682	114	304611	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.779	117	279674	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	103238	49.47	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.94%			
53) Toluene-d8	6.148	98	348876	51.93	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.86%			
75) 4-Bromofluorobenzene	8.881	95	137930	49.64	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.28%			
91) 1,2-Dichlorobenzene-d4	10.085	152	147273	48.38	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 96.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.205	85	908m	1.08	ug/L	
3) Chloromethane	1.349	50	977m	0.75	ug/L	
4) Vinyl chloride	1.413	62	1008	0.69	ug/L #	1
5) Bromomethane	1.649	94	531m	0.99	ug/L	
6) Chloroethane	1.718	64	1257m	1.22	ug/L	
7) Trichlorofluoromethane	1.857	101	1271	0.55	ug/L	93
8) Ethyl Ether	2.061	59	1384	0.99	ug/L #	70
9) Freon 113	2.200	101	1404	1.12	ug/L	82
10) Acrolein	2.205	56	1609	4.92	ug/L #	89
11) Tert-Butyl alcohol	2.681	59	3937	28.22	ug/L #	47
12) 1,1-Dichloroethene	2.226	96	1533	1.13	ug/L #	54
14) Acetonitrile	2.499	40	5117m	6.66	ug/L	
15) Methylene chloride	2.606	84	3076	1.80	ug/L #	75
16) Trans-1,2-dichloroethene	2.772	96	1748	1.20	ug/L #	57
17) Isopropyl ether	3.098	45	6412	1.07	ug/L	100
18) 1,1-Dichloroethane	3.125	63	2581	0.95	ug/L	92
19) Acetone	2.312	43	2590	4.54	ug/L	94
20) Methyl Acetate	4.265	43	2042	1.38	ug/L #	100
21) MTBE	2.751	73	4358	1.00	ug/L	100
22) Carbon disulfide	2.371	76	11482	2.49	ug/L	100
24) Acrylonitrile	2.847	53	3898	7.42	ug/L #	77
25) Chloroprene	3.157	53	2858	1.14	ug/L #	80
26) n-Heptane	4.447	71	1757m	1.44	ug/L	
27) 2,2-Dichloropropane	3.558	77	2277	1.05	ug/L #	64
28) Cis-1,2-dichloroethene	3.591	96	2179	1.27	ug/L #	76
29) 1,2-dichloroethene(total)	3.591	96	5955m	3.64	ug/L	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
30) Propionitrile	3.746	54	3210	12.83 ug/L #	74
31) Bromochloromethane	3.794	128	903	1.05 ug/L	74
32) Tetrahydrofuran	3.617	72	479	1.08 ug/L	97
33) Chloroform	3.842	83	3682	1.26 ug/L	85
34) Cyclohexane	3.949	56	4709	1.77 ug/L #	88
35) 1,1,1-Trichloroethane	3.965	97	2280	0.98 ug/L	93
36) Carbon tetrachloride	4.077	117	1133	0.60 ug/L #	72
37) Methylcyclohexane	4.998	83	2816	1.11 ug/L #	93
38) Isobutyl Alcohol	4.441	43	3165	28.20 ug/L	89
41) 2-Butanone	3.623	43	3360	3.16 ug/L	92
42) 1,1-Dichloropropene	4.104	75	1940	0.97 ug/L	100
43) Vinyl Acetate	3.147	43	2161	0.99 ug/L #	84
44) Benzene	4.291	78	7079	1.10 ug/L	100
45) 1,2-Dichloroethane	4.388	62	1957	0.93 ug/L #	67
46) Trichloroethene	4.891	95	1839	1.11 ug/L	95
47) 1,2-Dichloropropane	5.163	63	1654	0.96 ug/L	89
48) Methyl methacrylate	5.270	69	1862m	1.49 ug/L	
49) Dibromomethane	5.292	93	922	0.87 ug/L #	71
50) Bromodichloromethane	5.436	83	2340	1.08 ug/L #	98
51) 2-Chloroethylvinyl ether	5.779	63	4042	3.45 ug/L	95
52) Cis-1,3-dichloropropene	5.912	75	1717	0.64 ug/L	98
54) Toluene	6.223	92	3397	0.93 ug/L	84
55) Trans-1,3-dichloropropene	6.570	75	1829	0.77 ug/L	95
56) Ethyl methacrylate	6.624	69	2131m	1.00 ug/L	
57) 1,1,2-Trichloroethane	6.779	83	1626	1.38 ug/L #	72
59) 4-Methyl-2-pentanone	6.100	43	5007	2.71 ug/L #	83
60) 2-Hexanone	7.068	43	3469	2.75 ug/L	94
61) Tetrachloroethene	6.795	166	1189	0.77 ug/L #	58
62) 1,3-Dichloropropane	6.977	76	2111	0.92 ug/L #	56
63) Dibromochloromethane	7.175	129	1232	0.76 ug/L	97
64) 1,2-Dibromoethane	7.314	107	1194	0.82 ug/L	98
65) 1-Chlorohexane	7.790	91	2961	1.35 ug/L #	47
66) Chlorobenzene	7.806	112	4068	0.87 ug/L #	81
67) 1,1,1,2-Tetrachloroethane	7.913	131	1153	0.67 ug/L #	18
68) Ethylbenzene	7.902	91	6991	0.87 ug/L	98
69) m,p-Xylene	8.020	106	5561	1.66 ug/L	92
70) o-Xylene	8.395	106	2594	0.78 ug/L	85
71) Xylene (Total)	8.020	106	8155m	2.47 ug/L	
72) Styrene	8.421	104	4721	0.86 ug/L	91
73) Bromoform	8.598	173	650	0.58 ug/L	100
74) Isopropylbenzene	8.716	105	6220	0.86 ug/L	99
76) Bromobenzene	8.999	156	1850	0.89 ug/L	88

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration

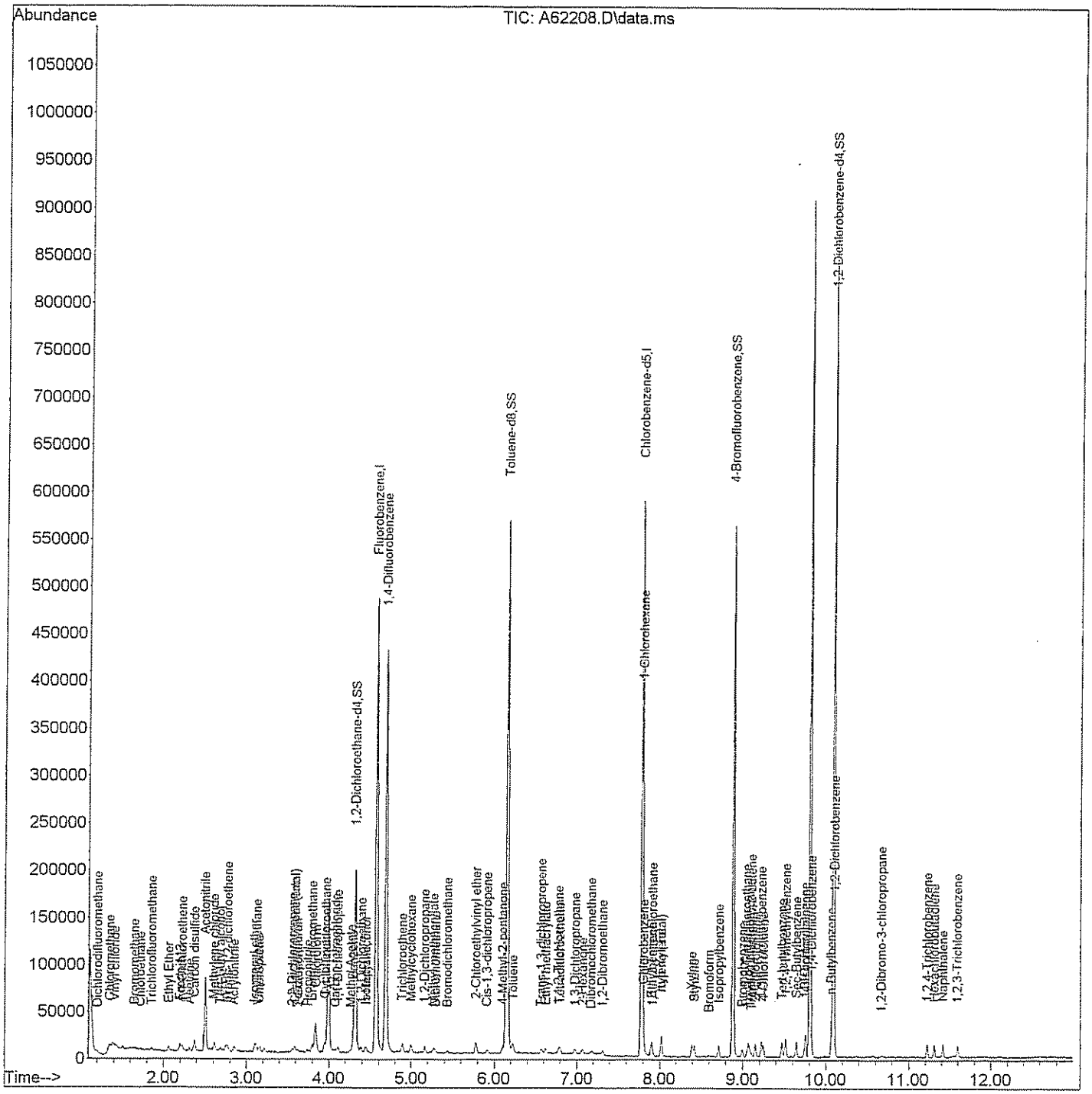
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) 1,1,2,2-Tetrachloroethane	9.047	83	2290	1.07 ug/L	94
78) 1,2,3-Trichloropropane	9.085	110	616	0.94 ug/L	94
79) n-Propylbenzene	9.069	91	8340	0.85 ug/L	93
80) Trans-1,4-dichloro-2-b...	9.106	53	503	0.79 ug/L #	25
81) 2-Chlorotoluene	9.154	126	1779	0.84 ug/L	92
82) 4-Chlorotoluene	9.245	126	1890	0.83 ug/L	98
83) 1,3,5-Trimethylbenzene	9.224	105	5886	0.75 ug/L	88
84) Tert-butylbenzene	9.470	119	5321	0.76 ug/L	92
86) 1,2,4-Trimethylbenzene	9.518	105	7100	0.87 ug/L	99
87) Sec-Butylbenzene	9.641	105	8721	0.82 ug/L	97
88) 1,3-Dichlorobenzene	9.743	146	4018	0.87 ug/L	98
89) 4-Isopropyltoluene	9.753	119	7514	0.83 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	4003m	0.87 ug/L	
92) 1,2-Dichlorobenzene	10.101	146	4028m	0.92 ug/L	
93) n-Butylbenzene	10.058	91	8187	0.97 ug/L	96
94) 1,2-Dibromo-3-chloropr...	10.674	75	363	0.82 ug/L #	67
95) 1,2,4-Trichlorobenzene	11.225	180	3045	1.04 ug/L	96
96) Hexachlorobutadiene	11.305	225	1574	1.26 ug/L	87
97) Naphthalene	11.412	128	8253	1.02 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	2750	1.05 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

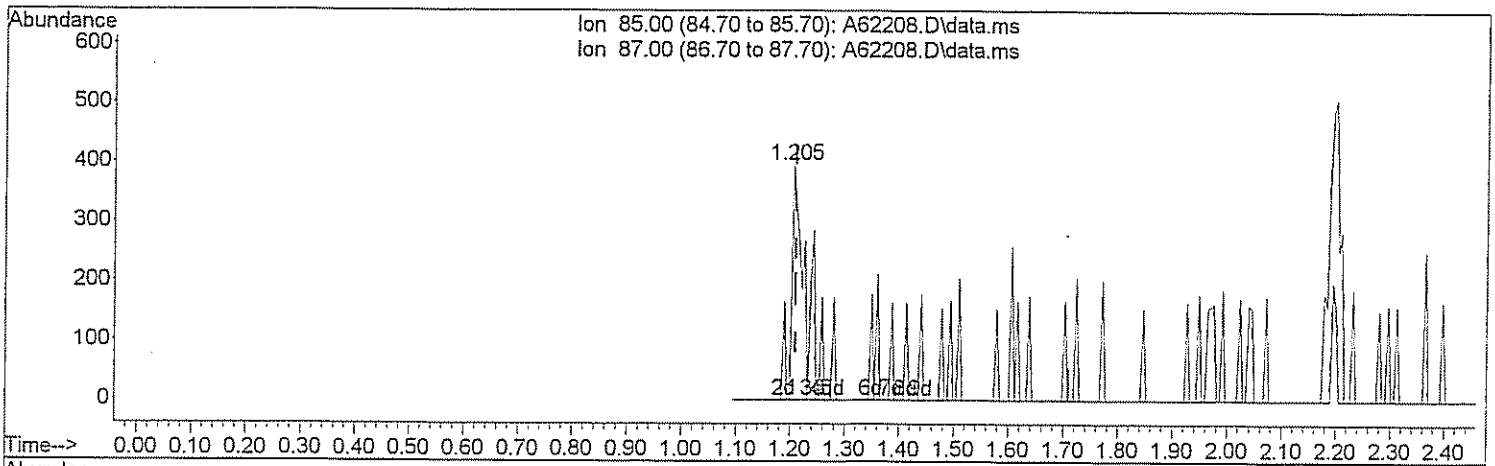
Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration

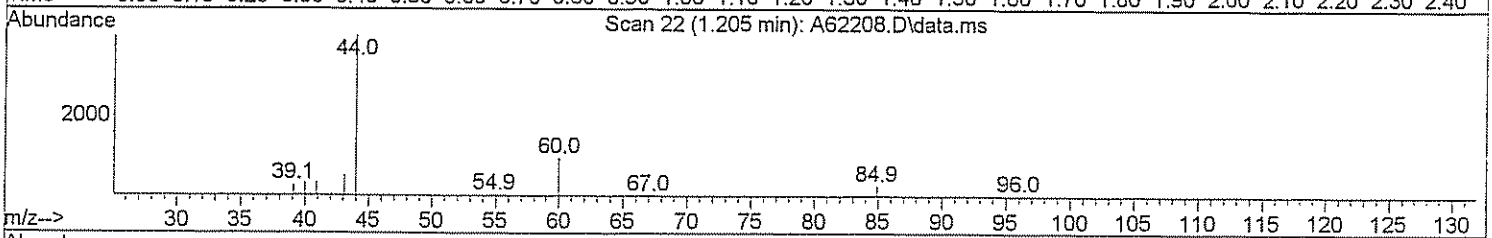


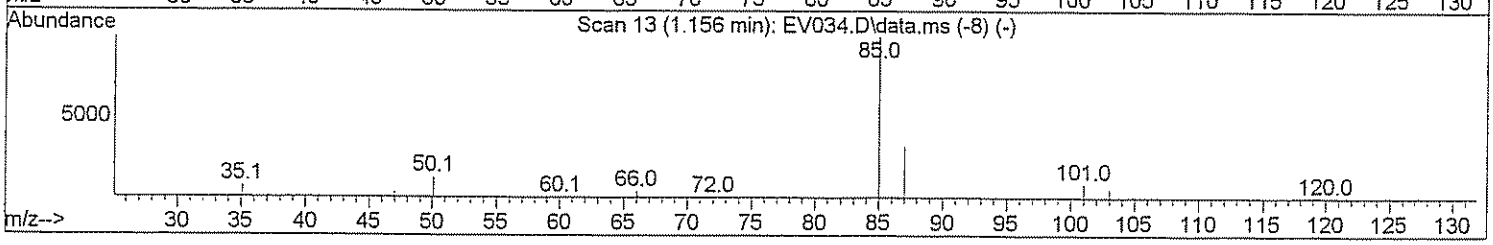
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration







TIC: A62208.D\data.ms

(2) Dichlorodifluoromethane

1.205min (-0.005) 0.55 ug/L

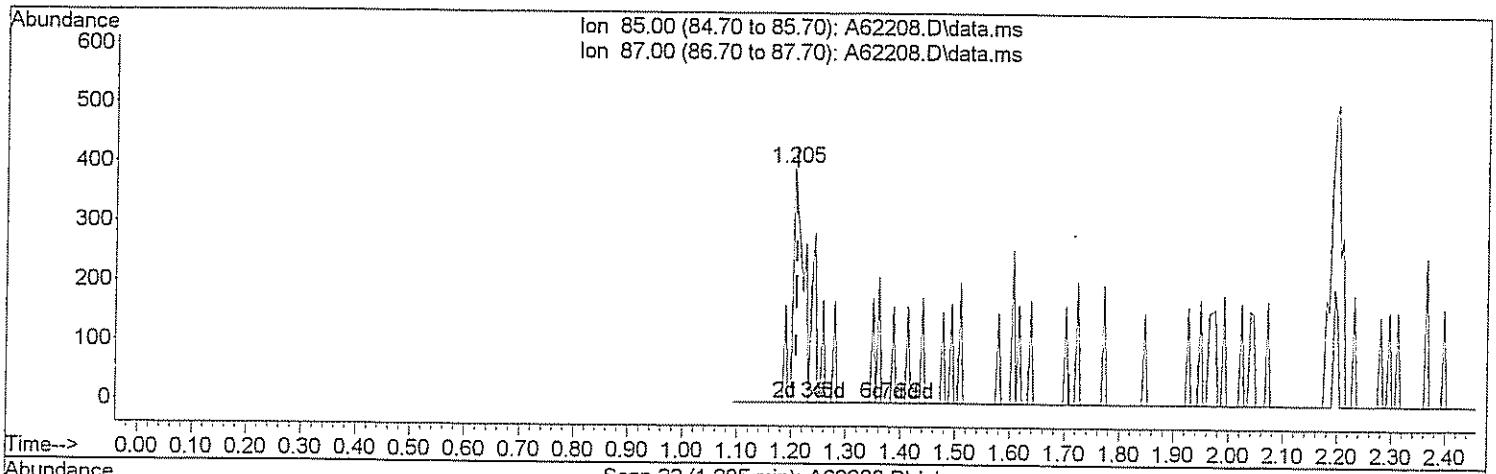
response 463

Ion	Exp%	Act%
85.00	100	100
87.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(2) Dichlorodifluoromethane

1.205min (-0.005) 1.08 ug/L m

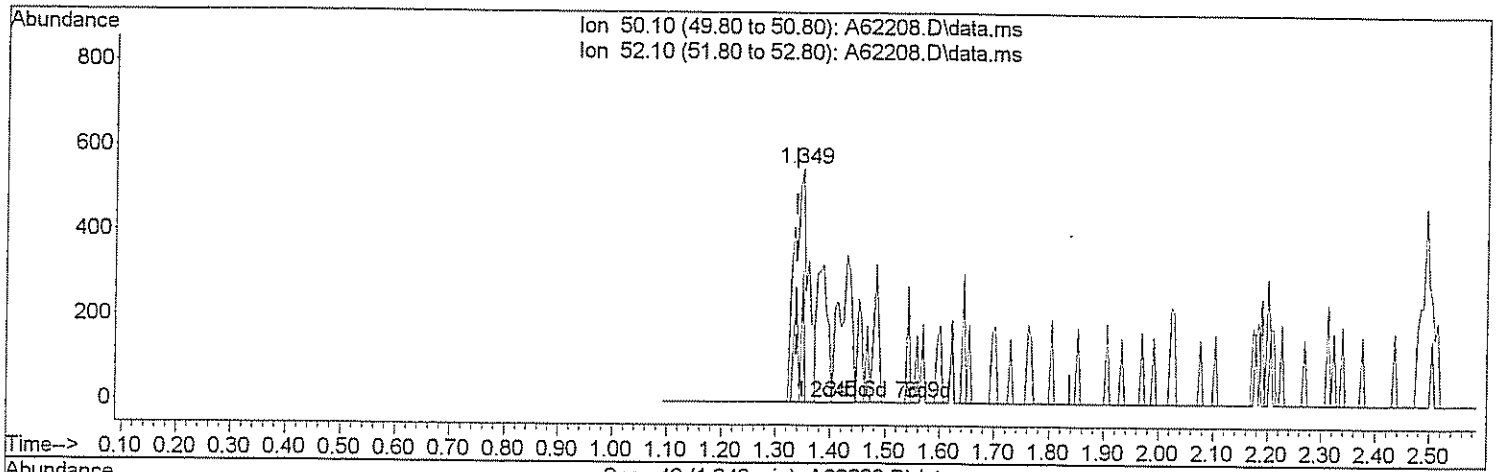
response 908

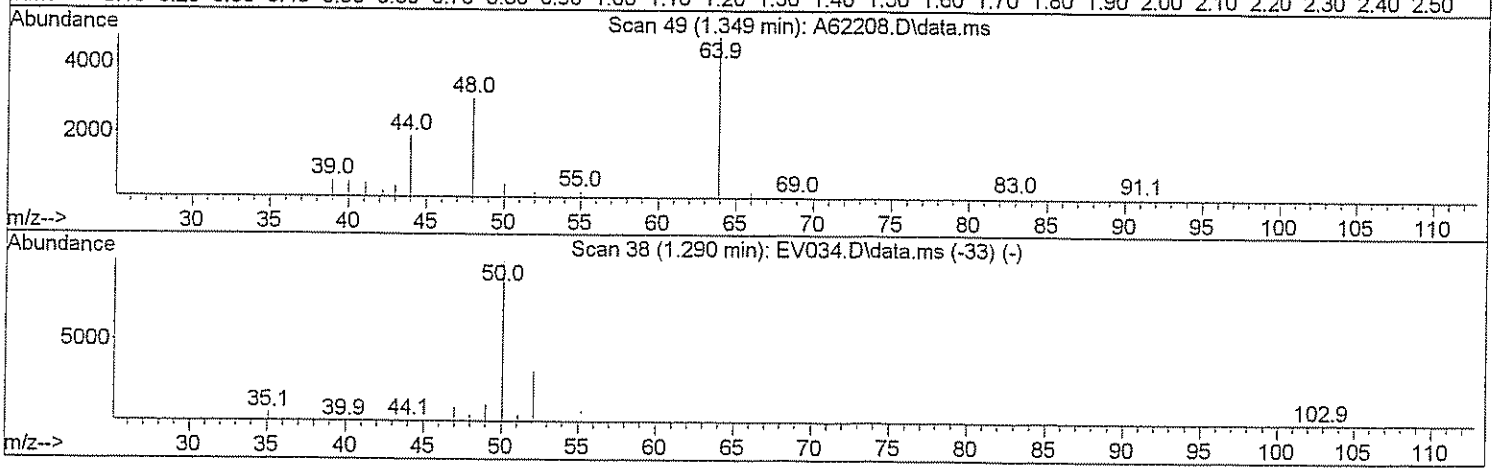
Ion	Exp%	Act%
85.00	100	100
87.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration





TIC: A62208.D\data.ms

(3) Chloromethane

1.349min (+0.011) 0.75 ug/L

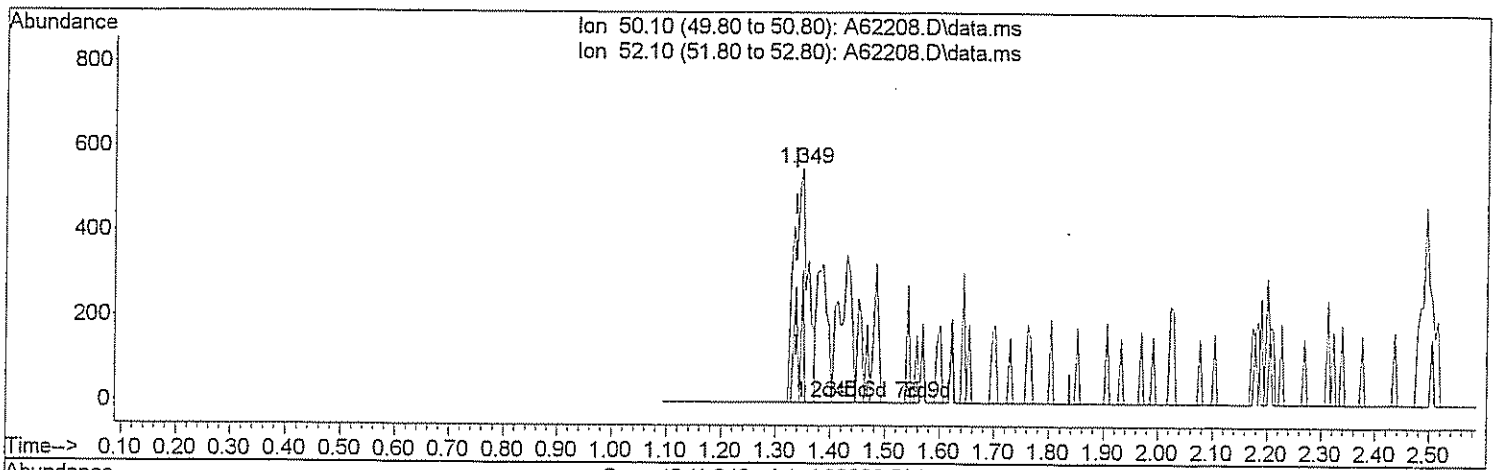
response 977

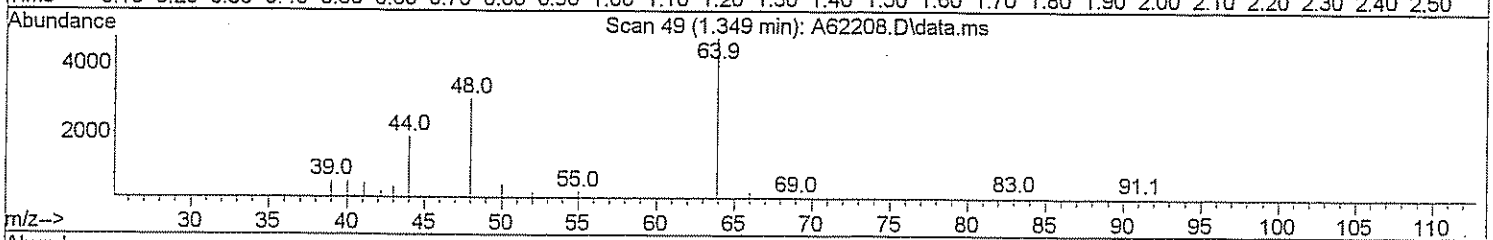
Ion	Exp%	Act%
50.10	100	100
52.10	32.20	12.79#
0.00	0.00	0.00
0.00	0.00	0.00

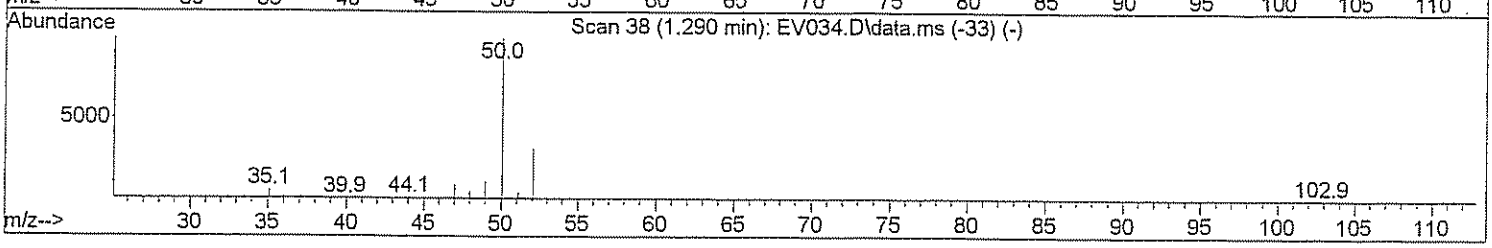
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration







TIC: A62208.D\data.ms

(3) Chloromethane

1.349min (+0.011) 0.75 ug/L m JW 3/12/09

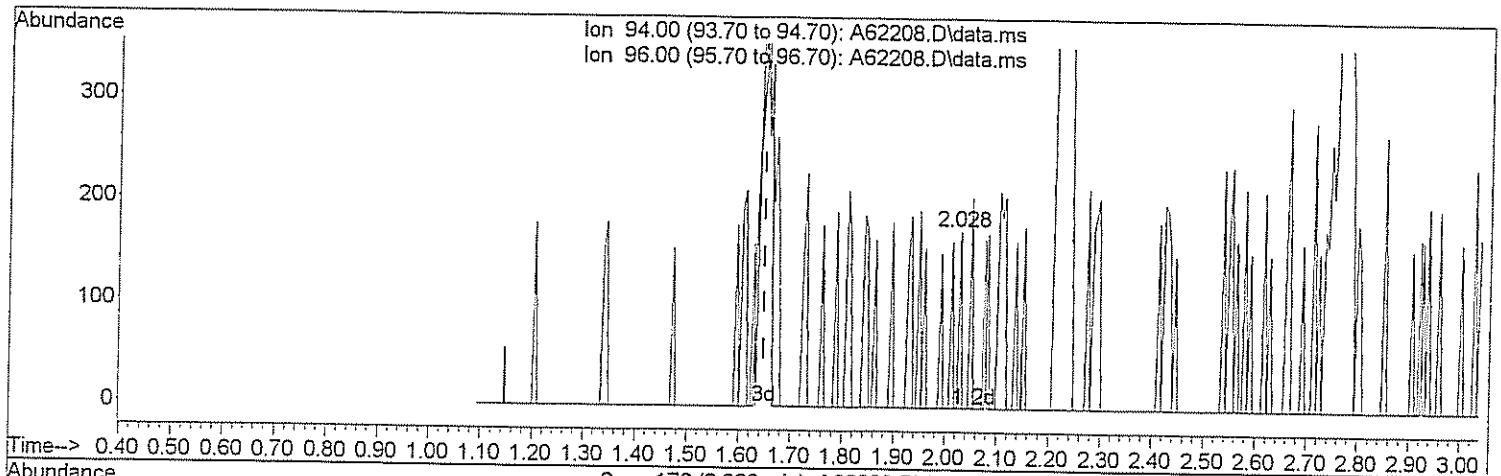
response 977

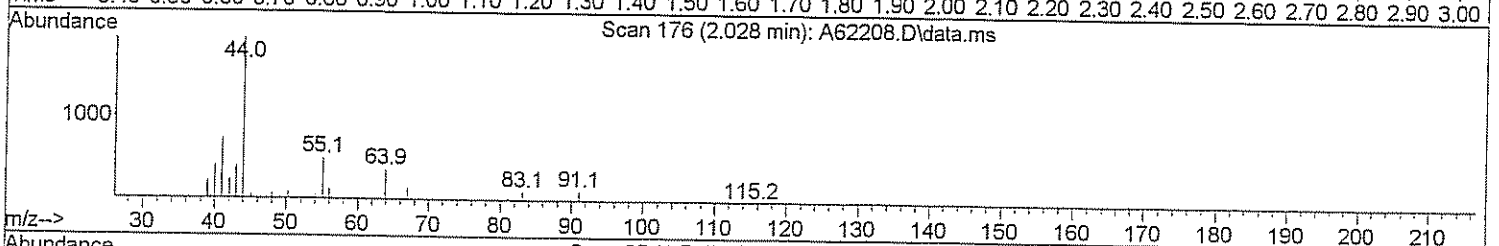
Ion	Exp%	Act%
50.10	100	100
52.10	32.20	12.79#
0.00	0.00	0.00
0.00	0.00	0.00

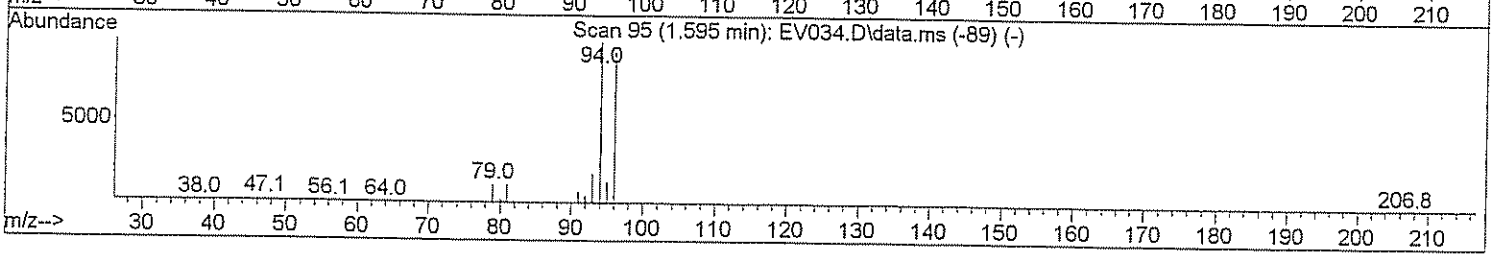
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration







TIC: A62208.D\data.ms

(5) Bromomethane

2.028min (+0.380) 0.10 ug/L

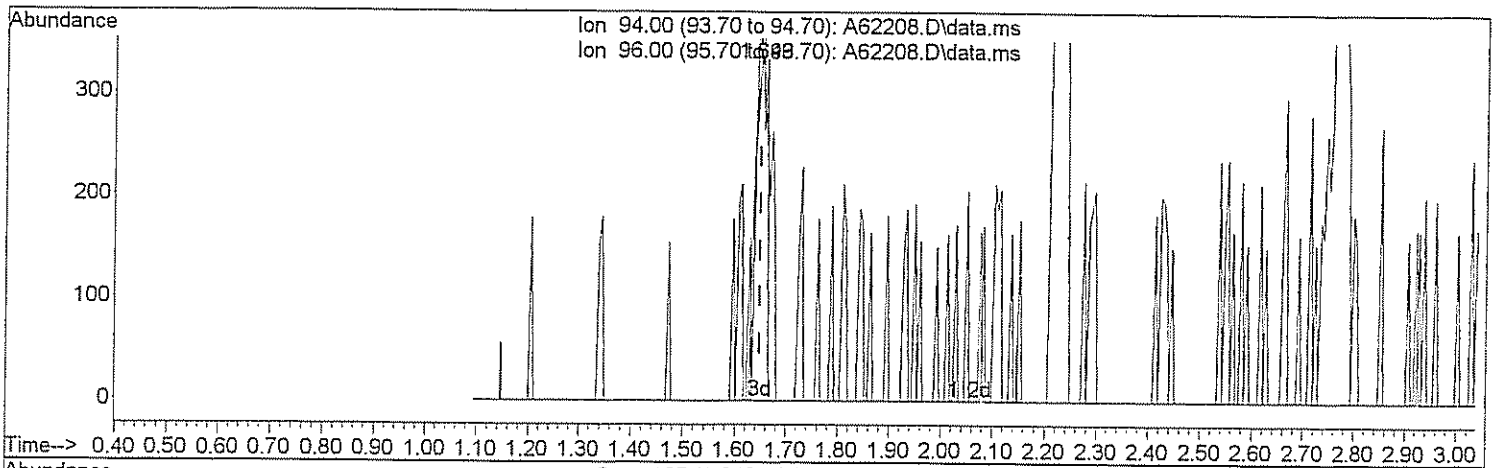
response 56

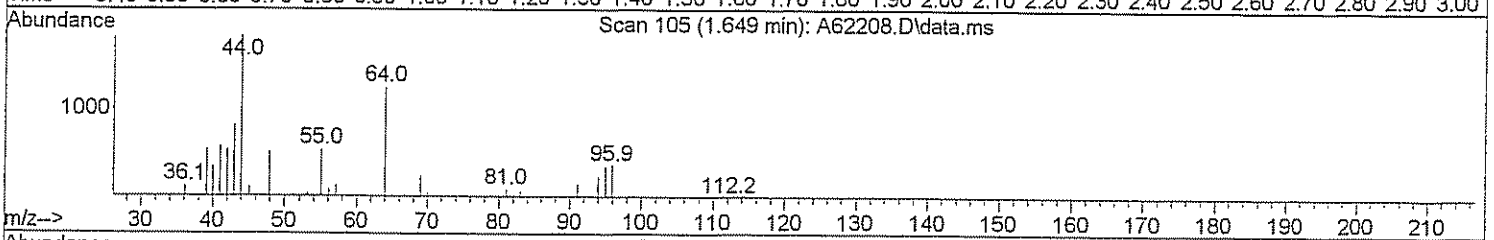
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	92.86
0.00	0.00	0.00
0.00	0.00	0.00

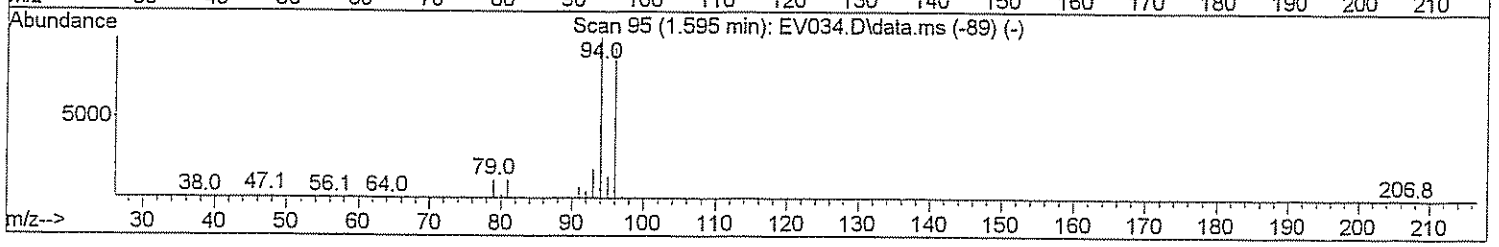
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration







TIC: A62208.D\data.ms

(5) Bromomethane

1.649min (+0.000) 0.99 ug/L m Jm 3/12/09

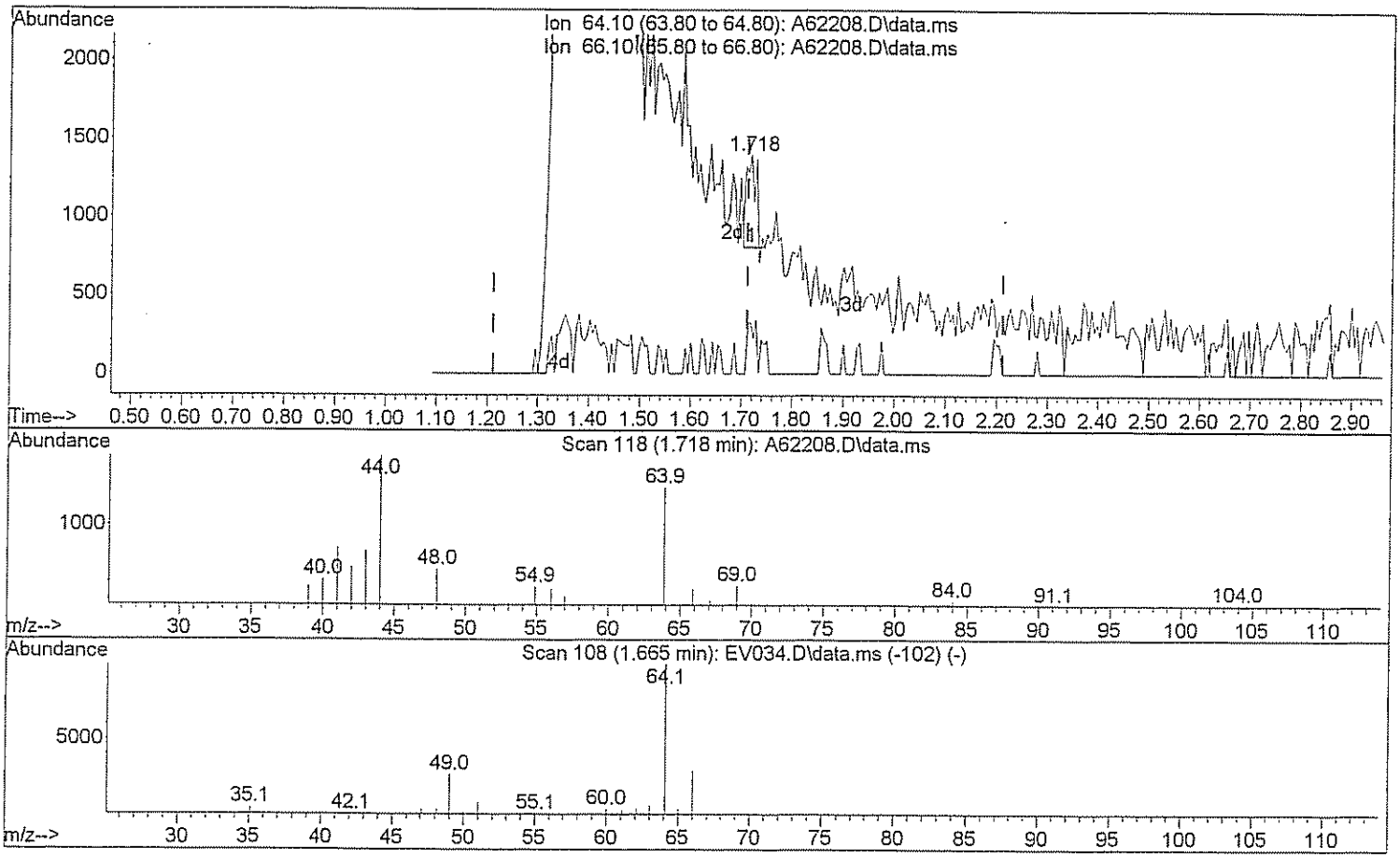
response 531

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	9.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(6) Chloroethane

1.718min (+0.006) 0.75 ug/L

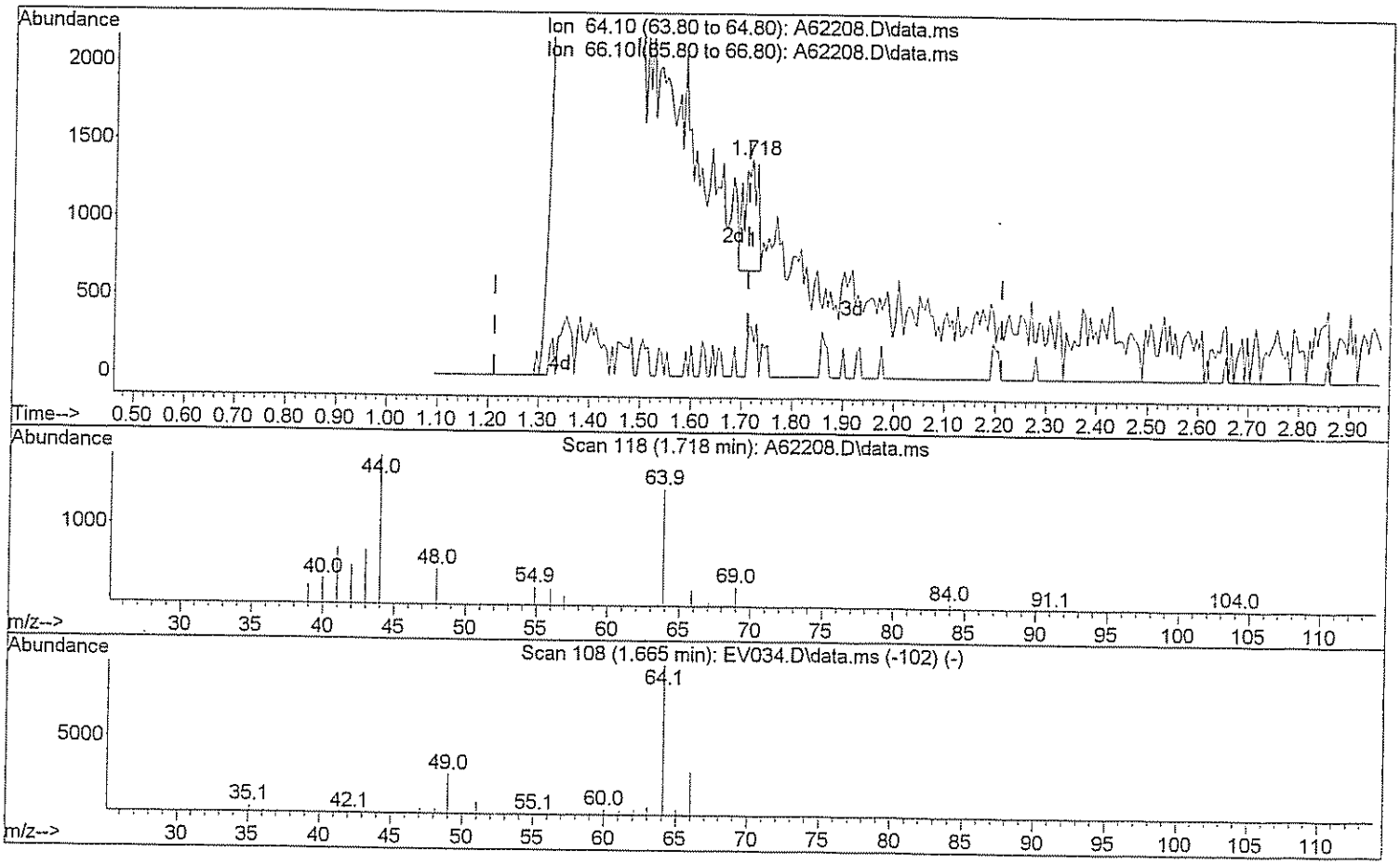
response 770

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	50.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(6) Chloroethane

1.718min (+0.006) 1.22 ug/L m AM 3/12/09

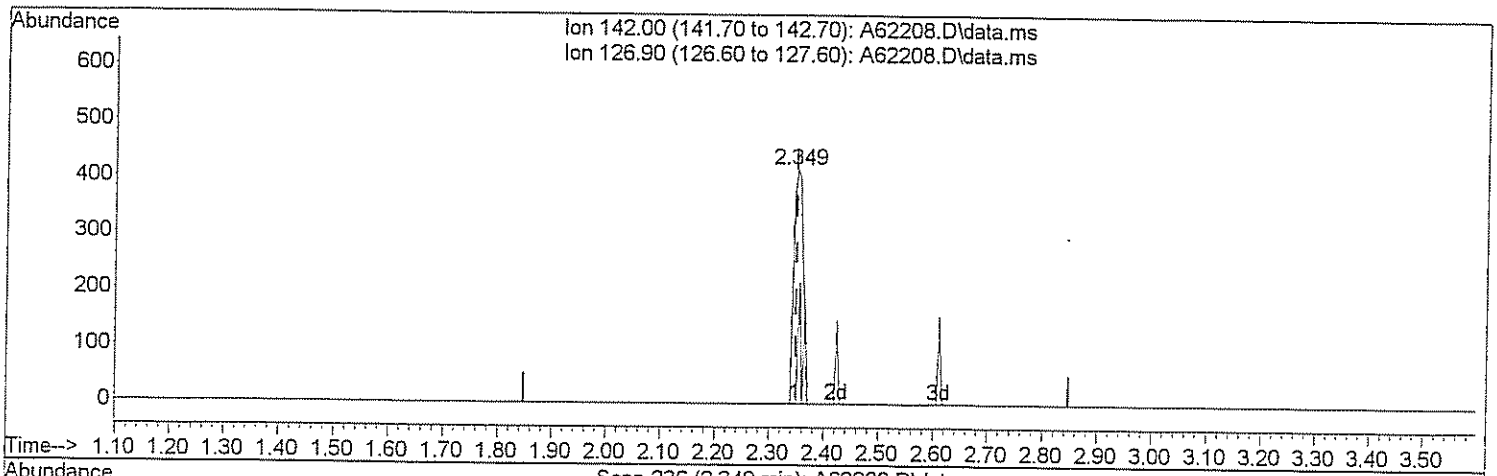
response 1257

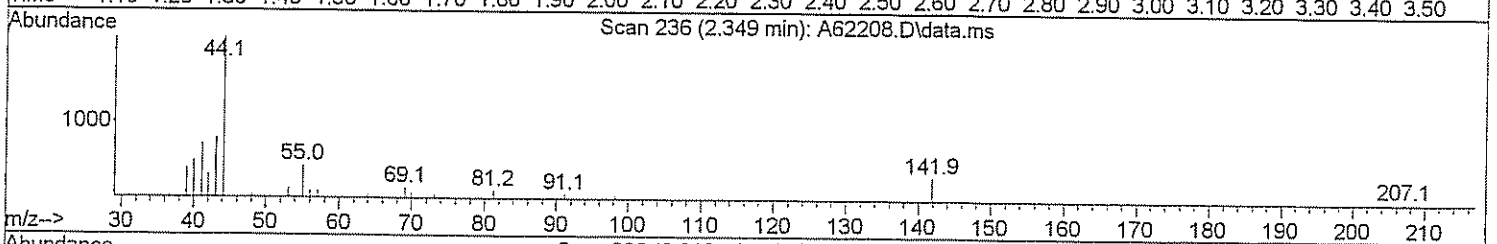
Ion	Exp%	Act%
64.10	100	100
66.10	29.60	30.87
0.00	0.00	0.00
0.00	0.00	0.00

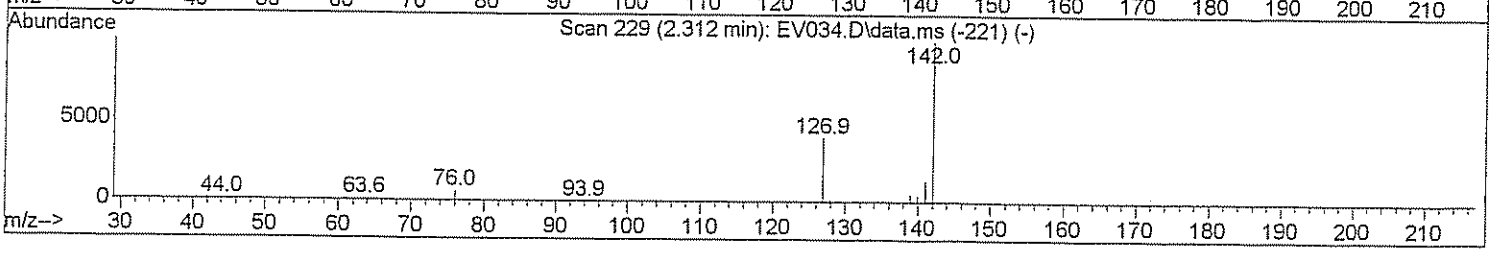
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration







TIC: A62208.D\data.ms

(13) Iodomethane

2.349min (+0.000) 0.37 ug/L

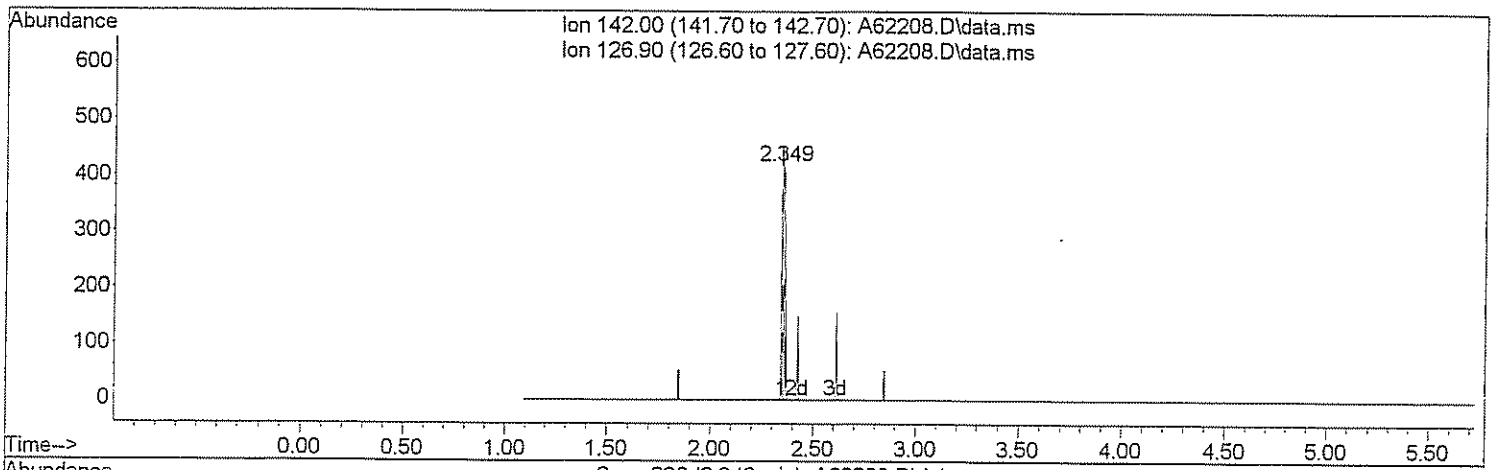
response 510

Ion	Exp%	Act%
142.00	100	100
126.90	40.70	23.73#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(13) Iodomethane

2.349min (+0.000) 0.45 ug/L m

Jm 3/12/09

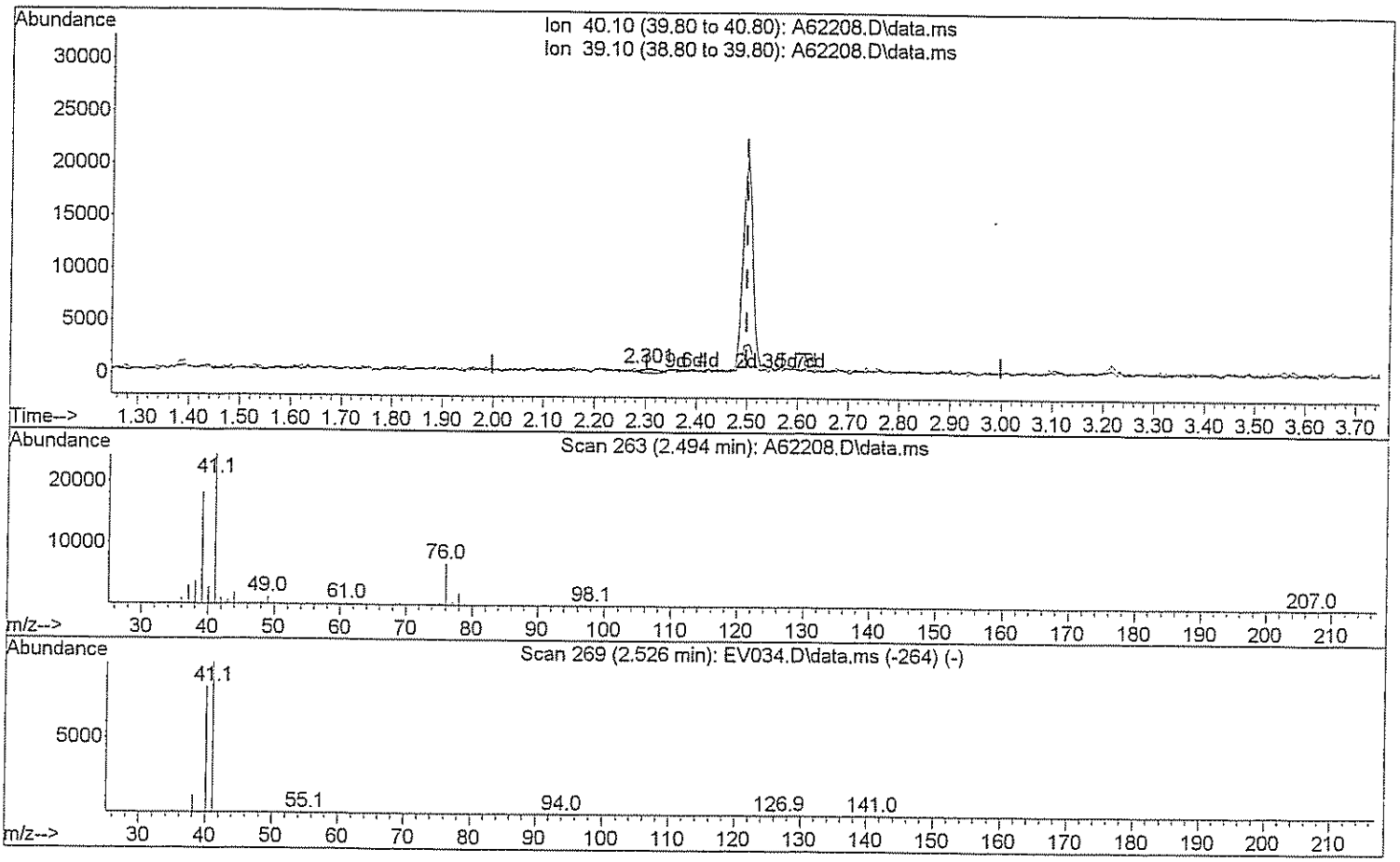
response 610

Ion	Exp%	Act%
142.00	100	100
126.90	40.70	19.84#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(14) Acetonitrile

2.301min (-0.198) 0.91 ug/L

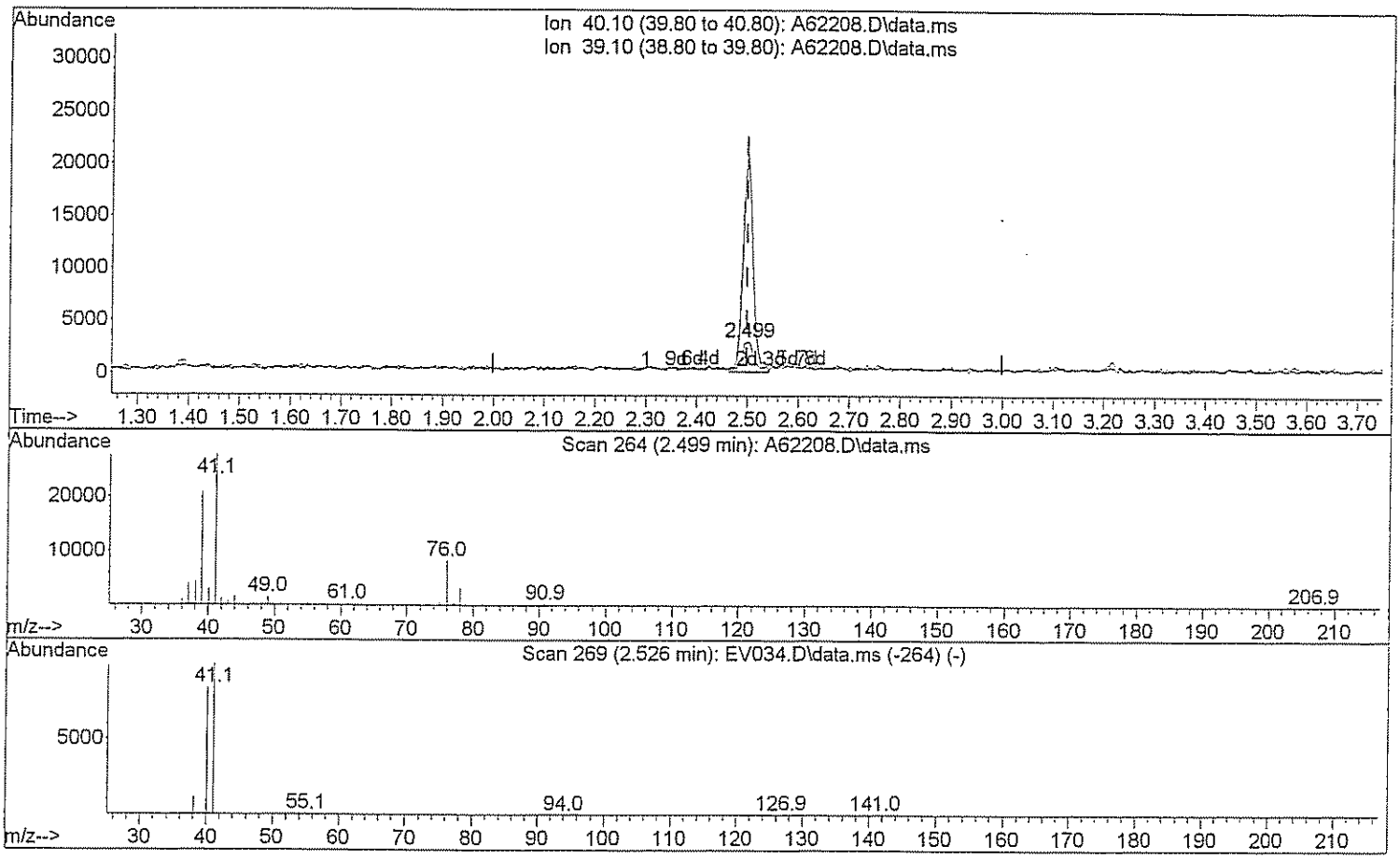
response 701

Ion	Exp%	Act%
40.10	100	100
39.10	111.20	132.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(14) Acetonitrile

2.499min (+0.000) 6.66 ug/L m 3/12/09

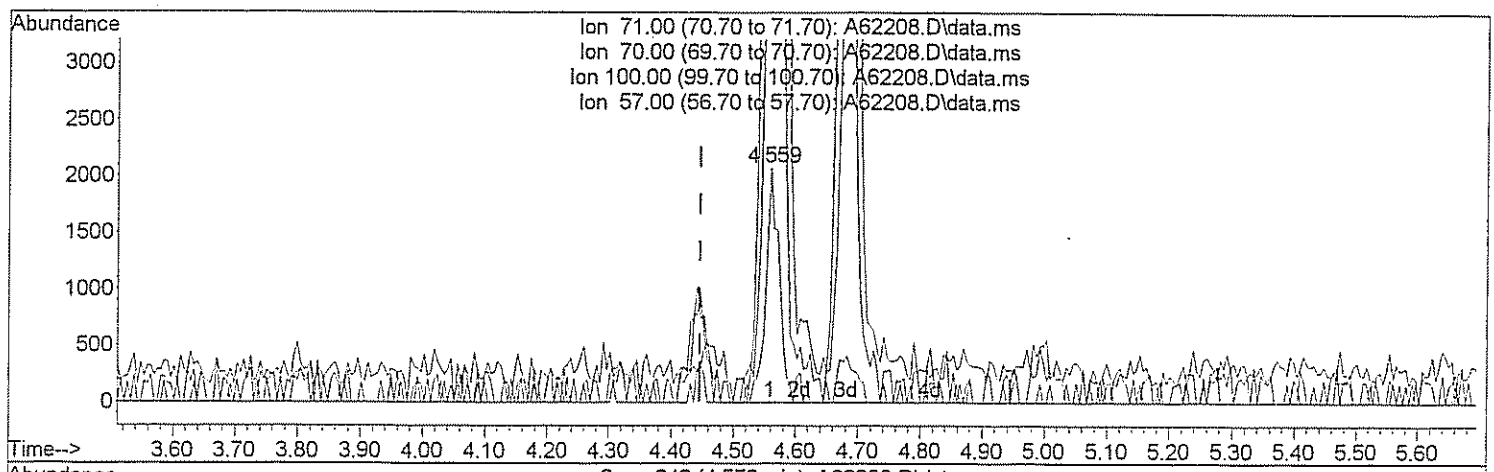
response 5117

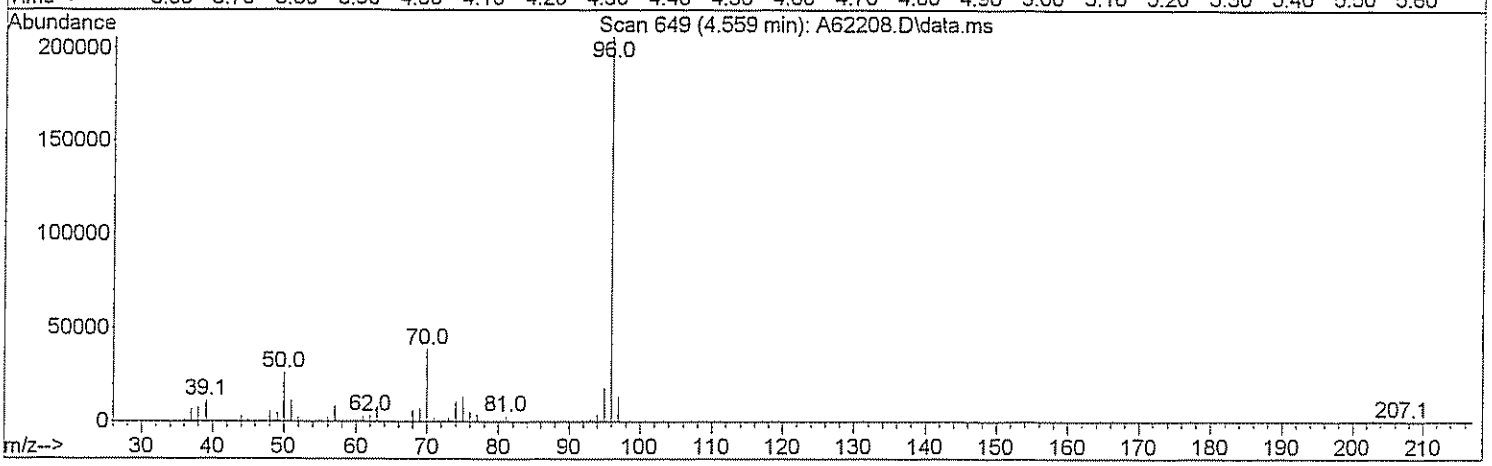
Ion	Exp%	Act%
40.10	100	100
39.10	111.20	18.17#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration





TIC: A62208.D\data.ms

(26) n-Heptane (T)

4.559min (+0.113) 2.59 ug/L

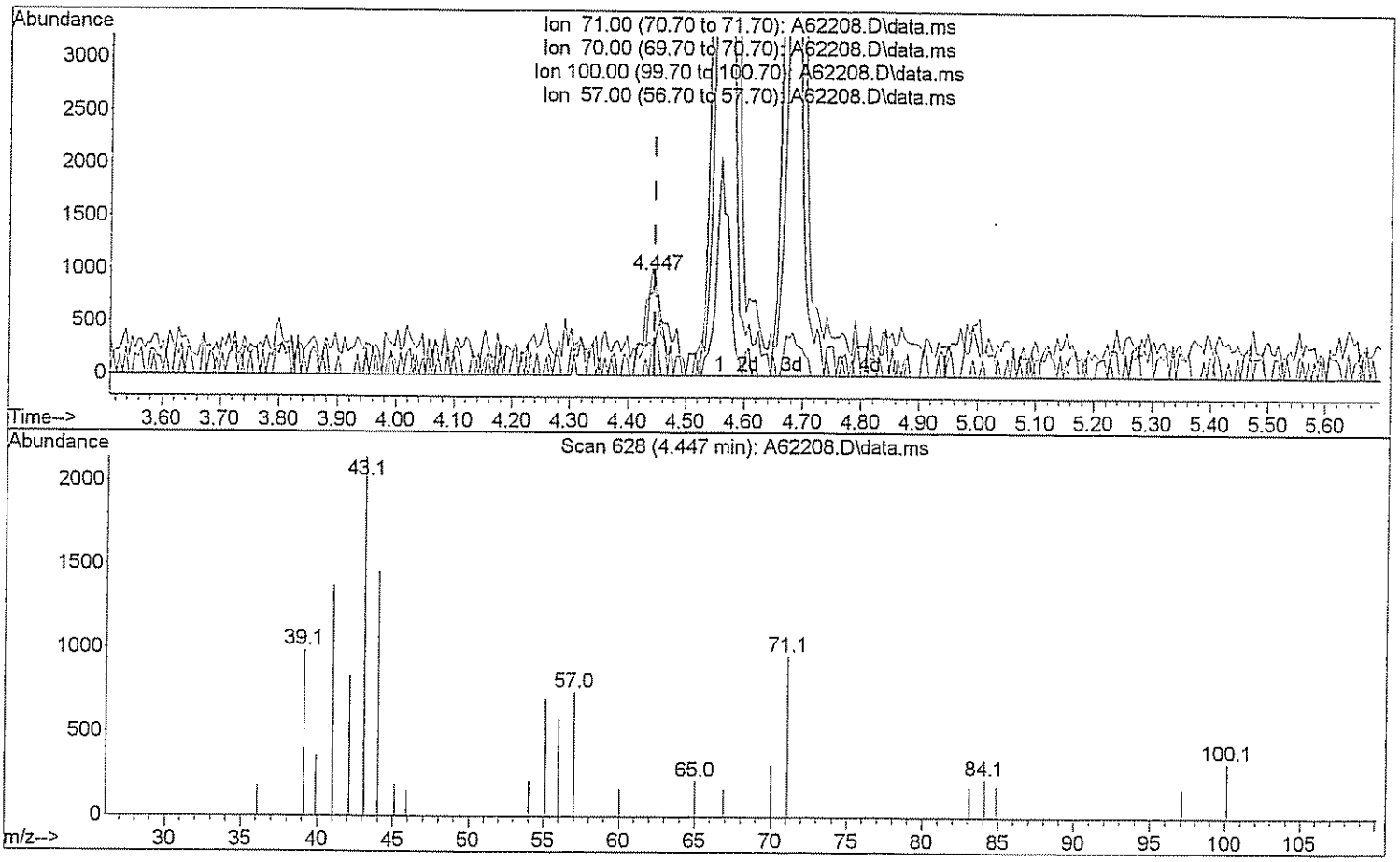
response 3161

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2123.16#
100.00	60.00	0.00#
57.00	34.00	507.09#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(26) n-Heptane (T)

4.447min (+0.000) 1.44 ug/L m

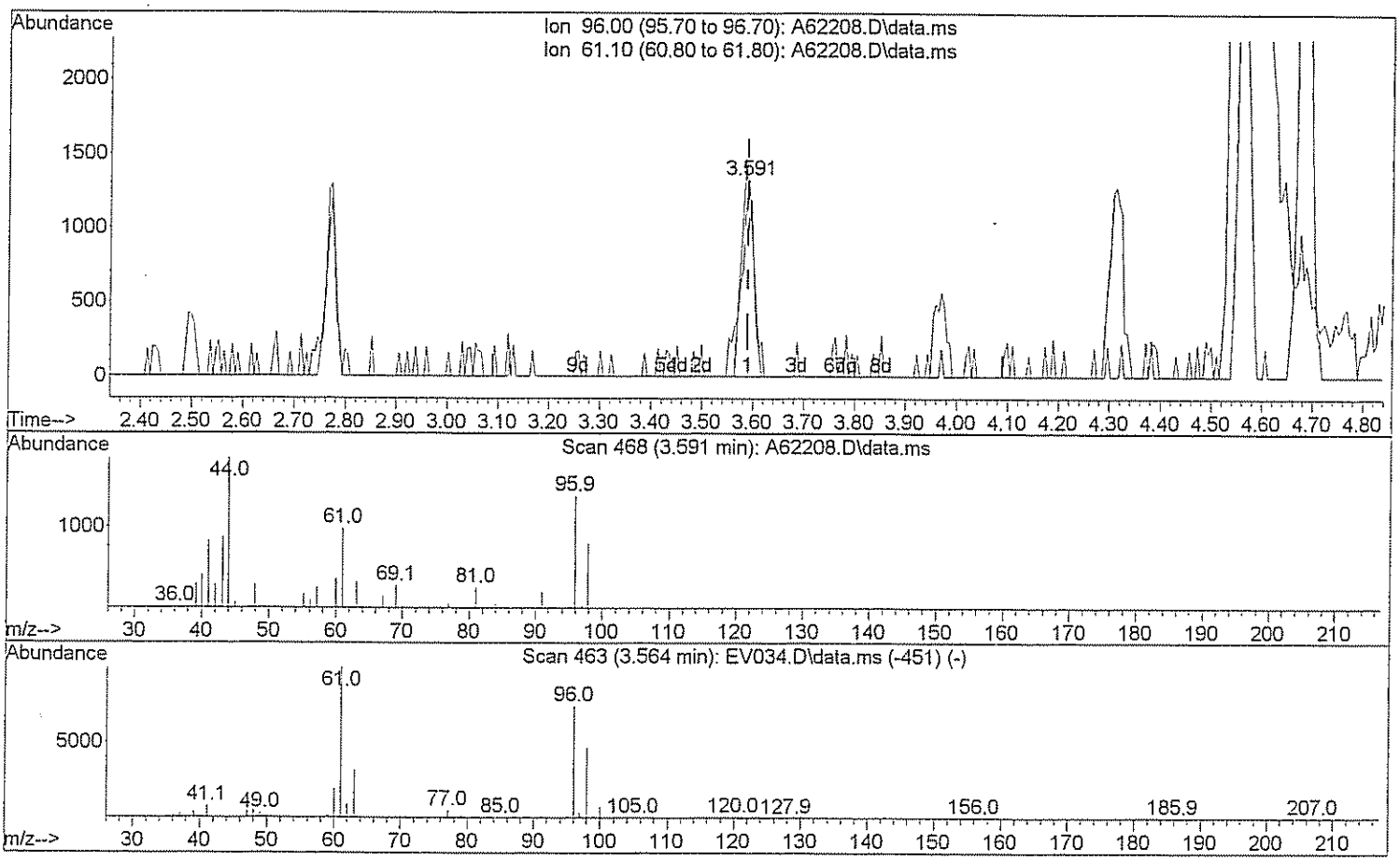
response 1757

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	3819.75#
100.00	60.00	0.00#
57.00	34.00	912.29#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (+0.000) 1.33 ug/L

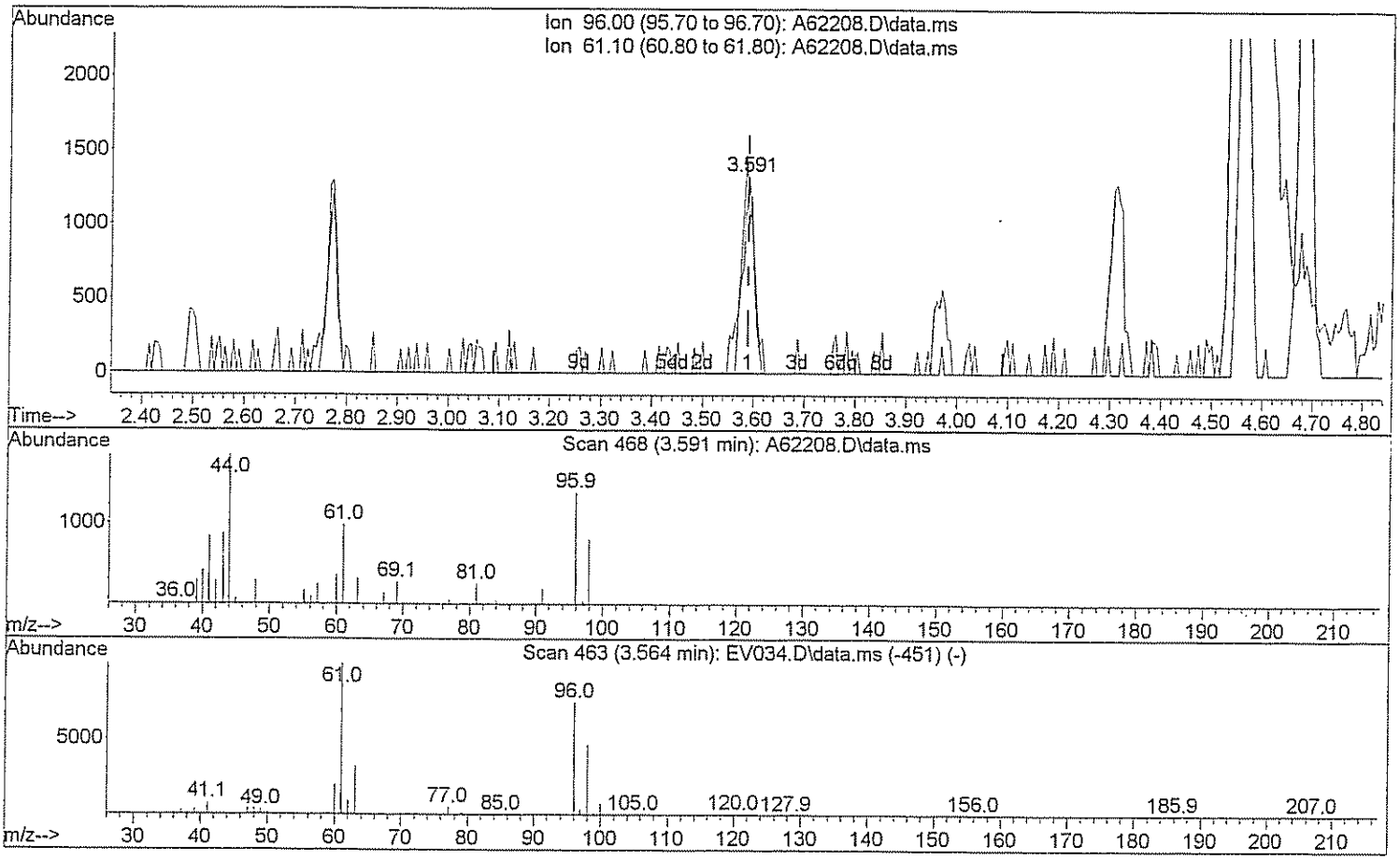
response 2179

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	114.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (+0.000) 3.64 ug/L m DW 3/12/09

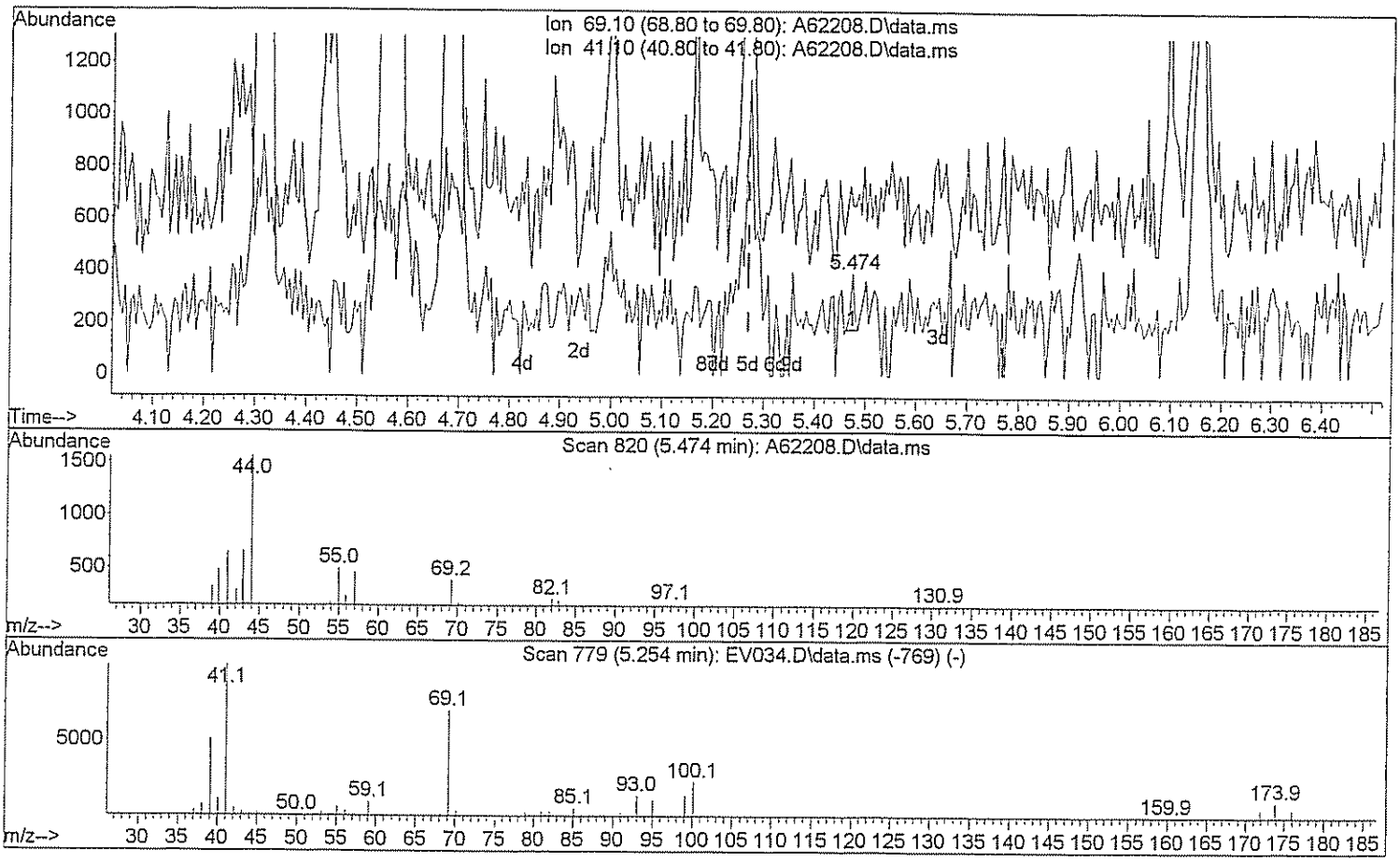
response 5955

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	41.96#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(48) Methyl methacrylate

5.474min (+0.203) 0.08 ug/L

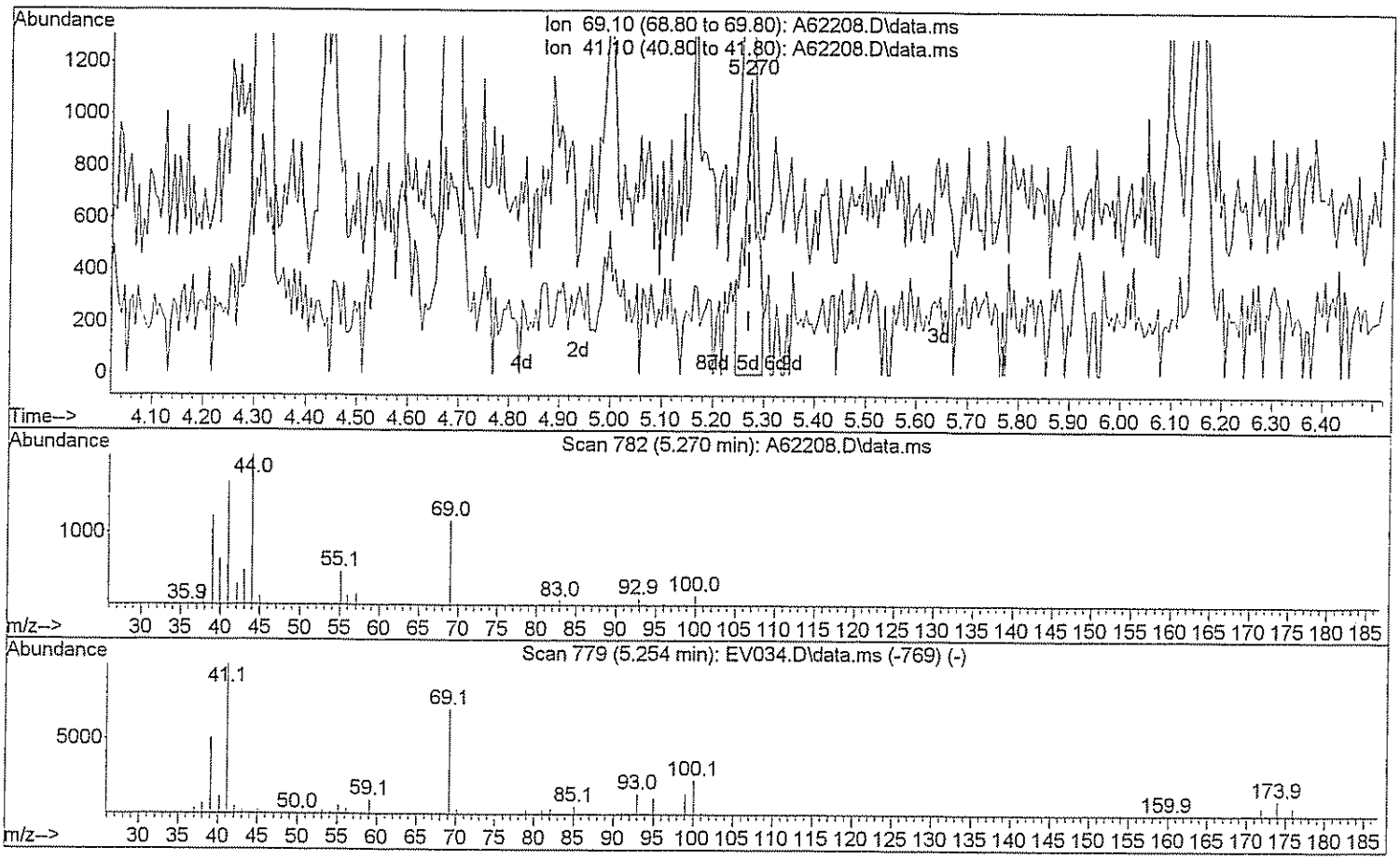
response 102

Ion	Exp%	Act%
69.10	100	100
41.10	141.20	156.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(48) Methyl methacrylate

5.270min (+0.000) 1.49 ug/L m 3/12/09

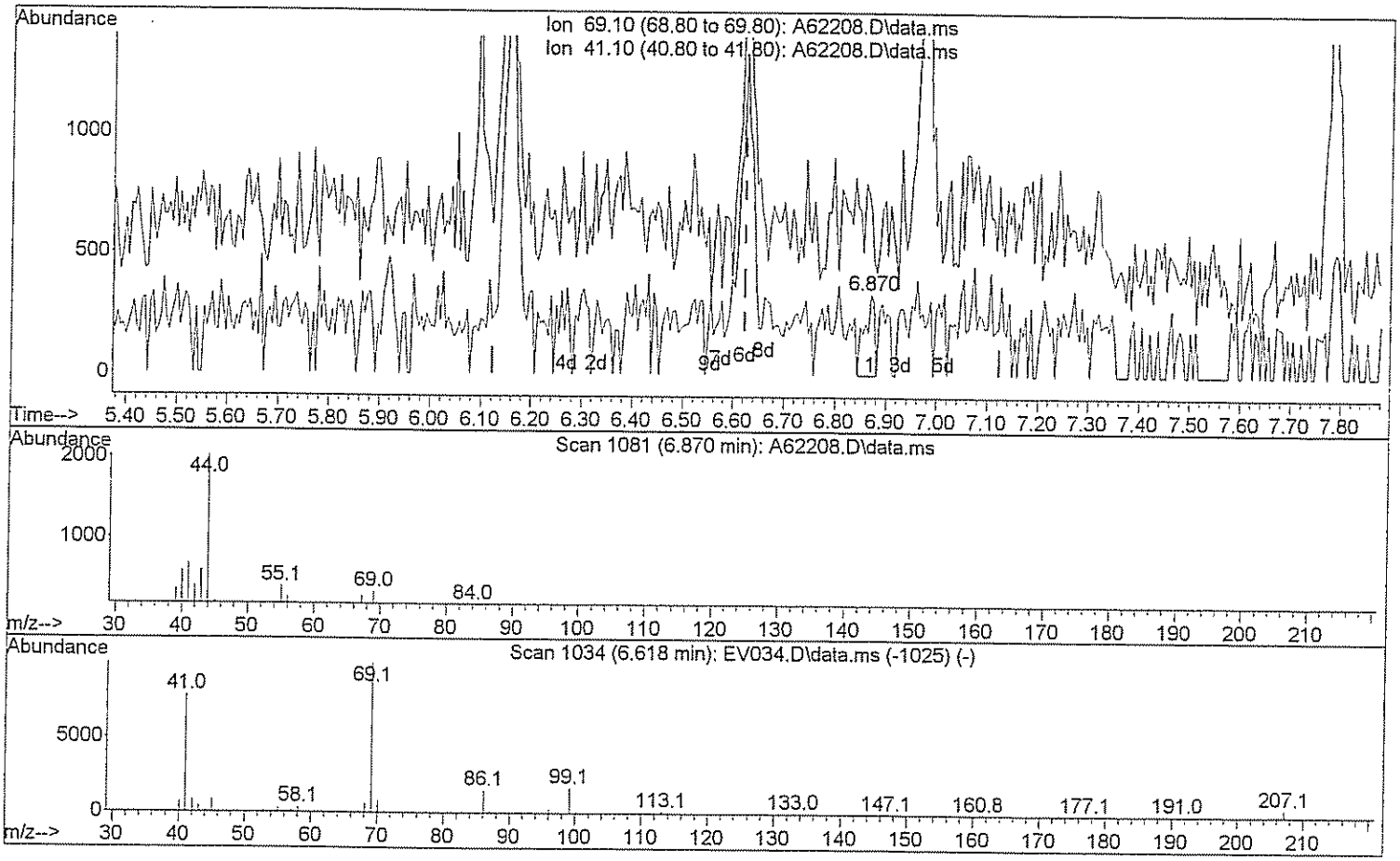
response 1862

Ion	Exp%	Act%
69.10	100	100
41.10	141.20	8.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(56) Ethyl methacrylate

6.870min (+0.246) 0.21 ug/L

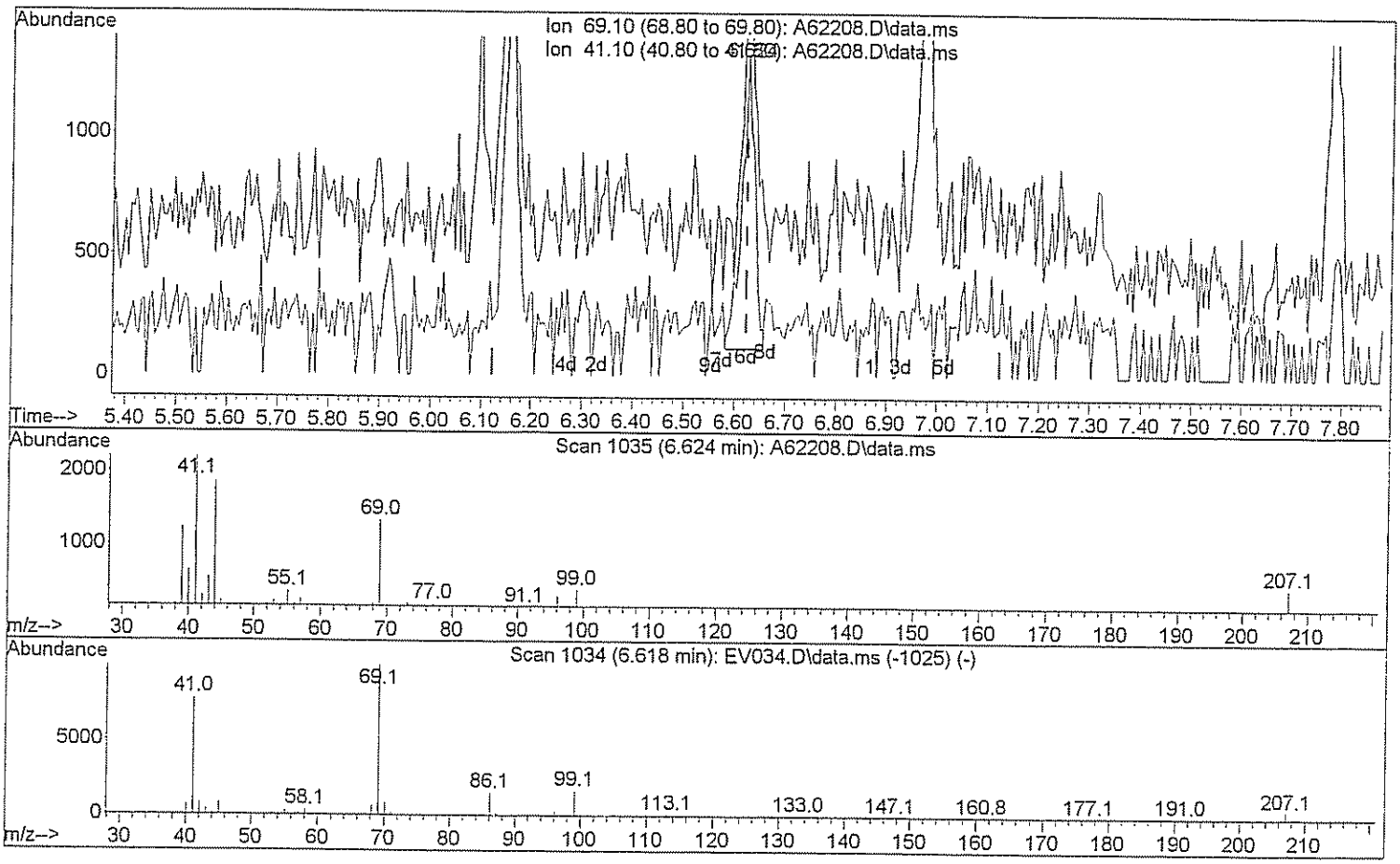
response 455

Ion	Exp%	Act%
69.10	100	100
41.10	77.10	70.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(56) Ethyl methacrylate

6.624min (+0.000) 1.00 ug/L m 3/12/09

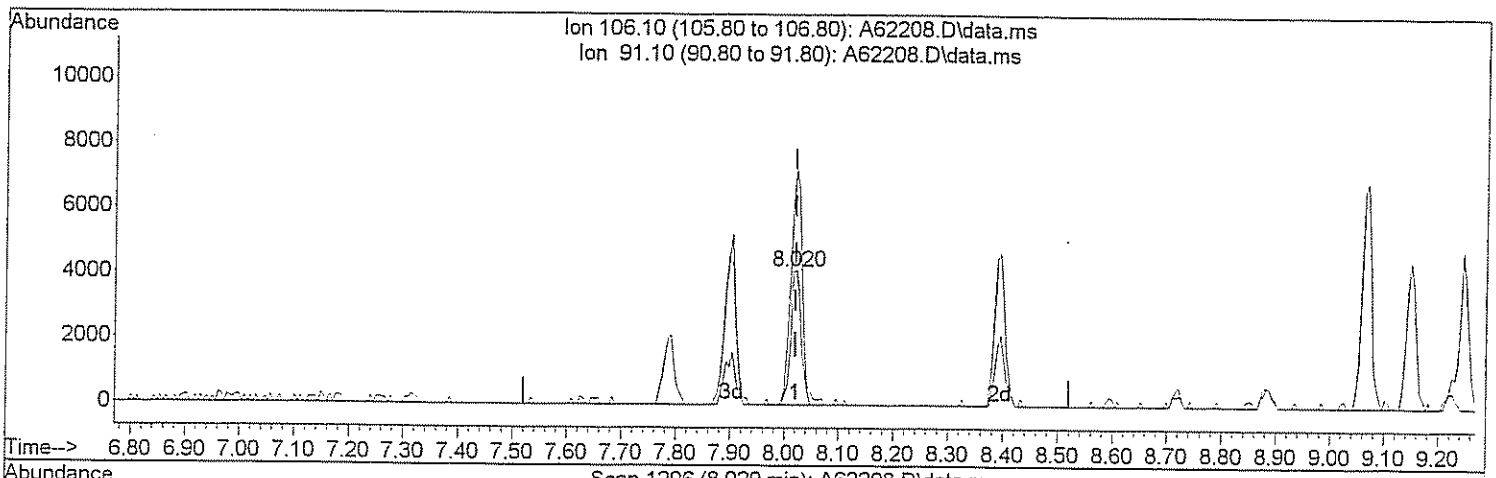
response 2131

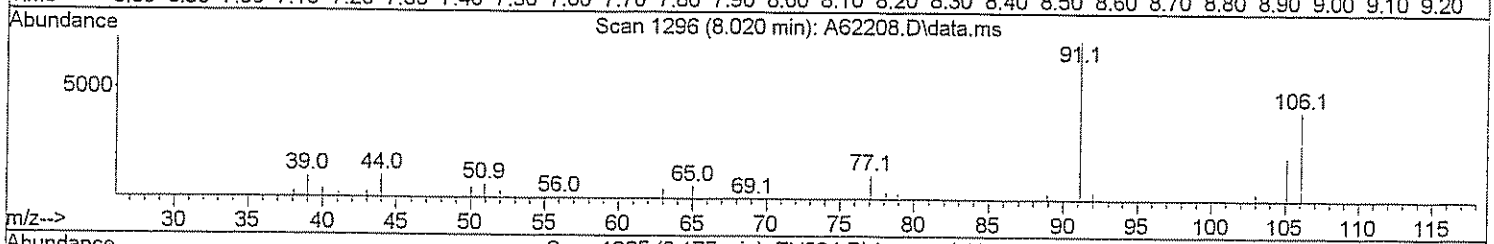
Ion	Exp%	Act%
69.10	100	100
41.10	77.10	15.11#
0.00	0.00	0.00
0.00	0.00	0.00

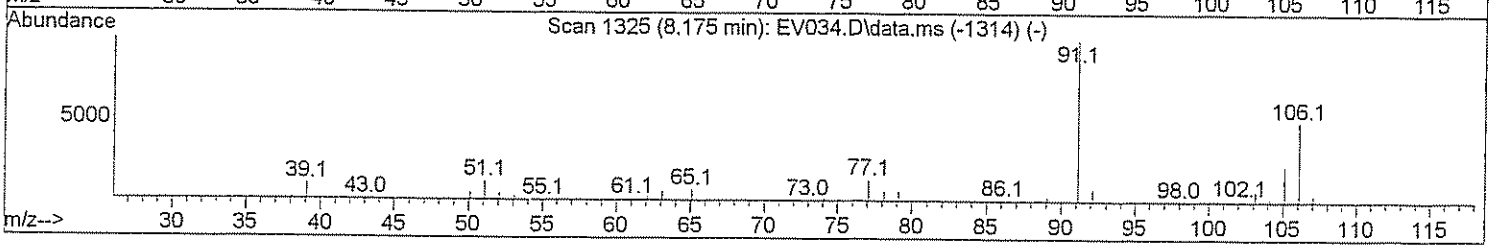
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration







TIC: A62208.D\data.ms

(71) Xylene (Total)

8.020min (+0.000) 1.68 ug/L

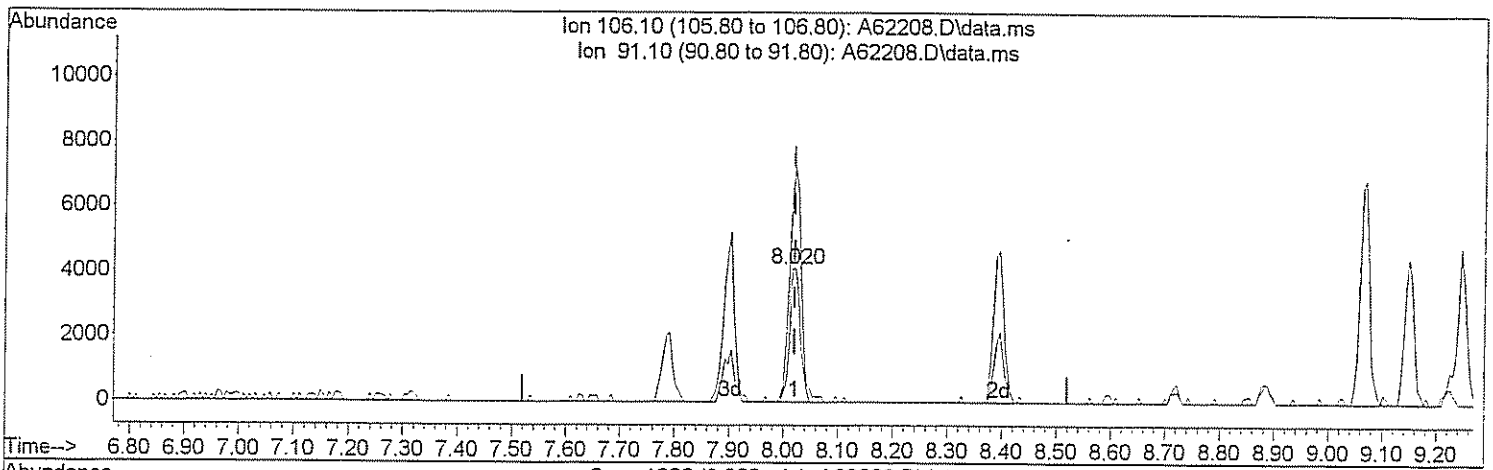
response 5561

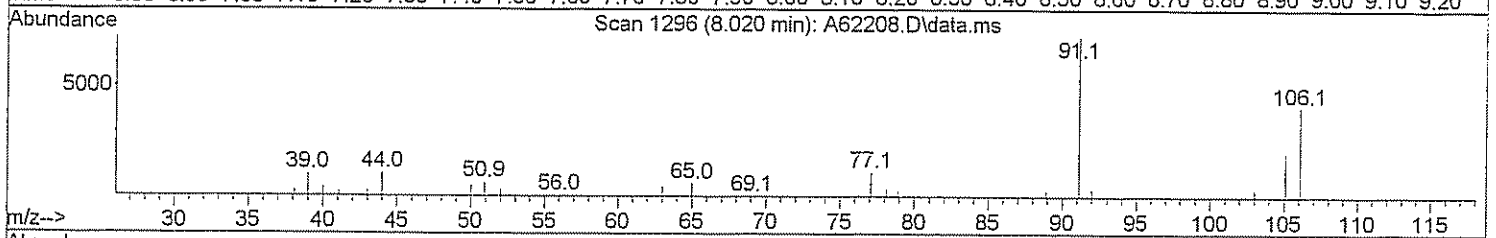
Ion	Exp%	Act%
106.10	100	100
91.10	208.40	196.19
0.00	0.00	0.00
0.00	0.00	0.00

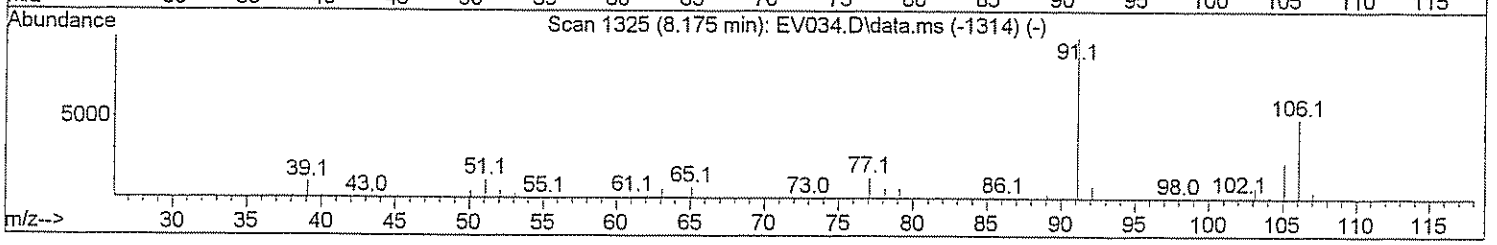
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration







TIC: A62208.D\data.ms

(71) Xylene (Total)

8.020min (+0.000) 2.47 ug/L m Sm 3/12/09

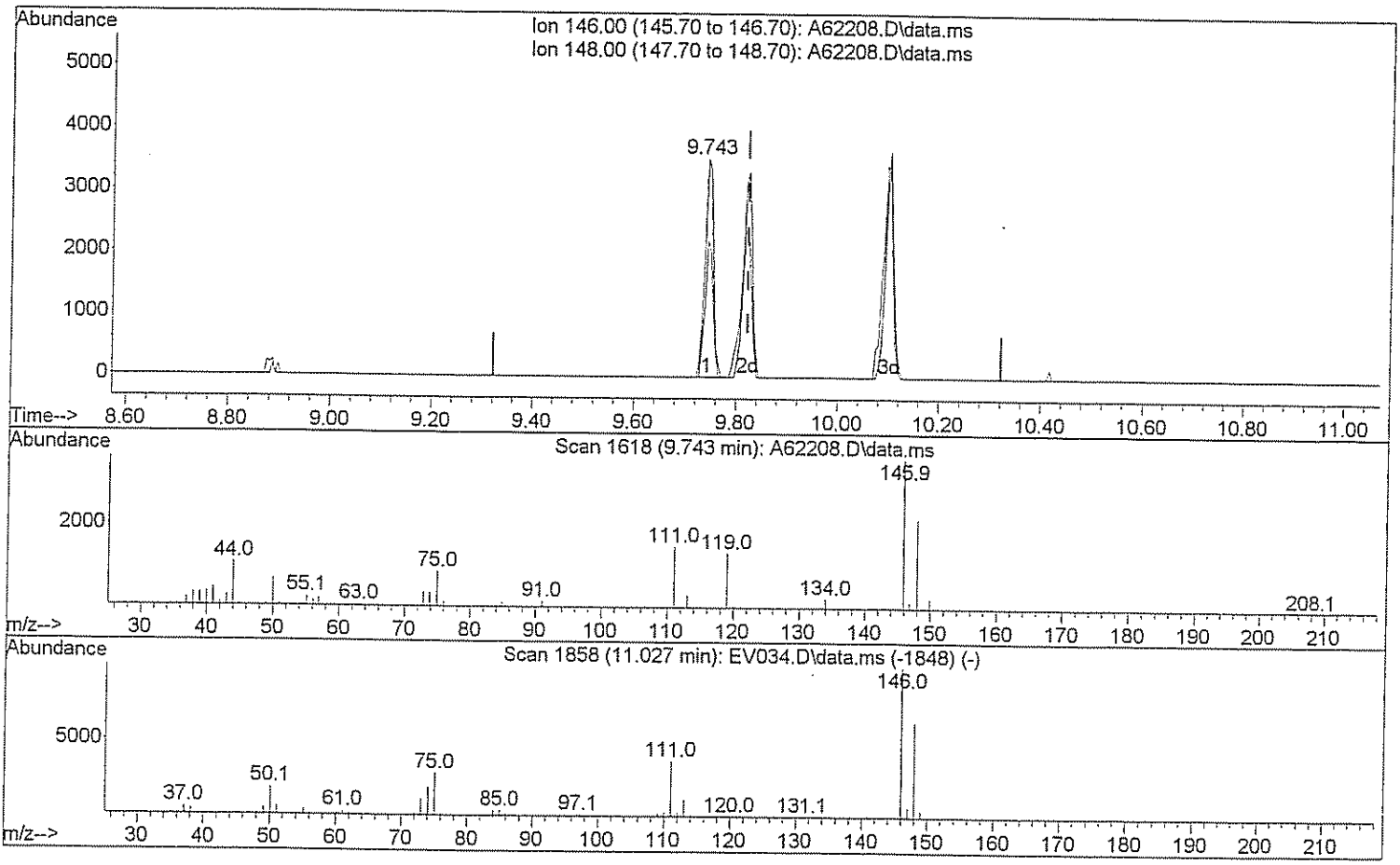
response 8155

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	133.78#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(90) 1,4-Dichlorobenzene

9.743min (-0.080) 0.87 ug/L

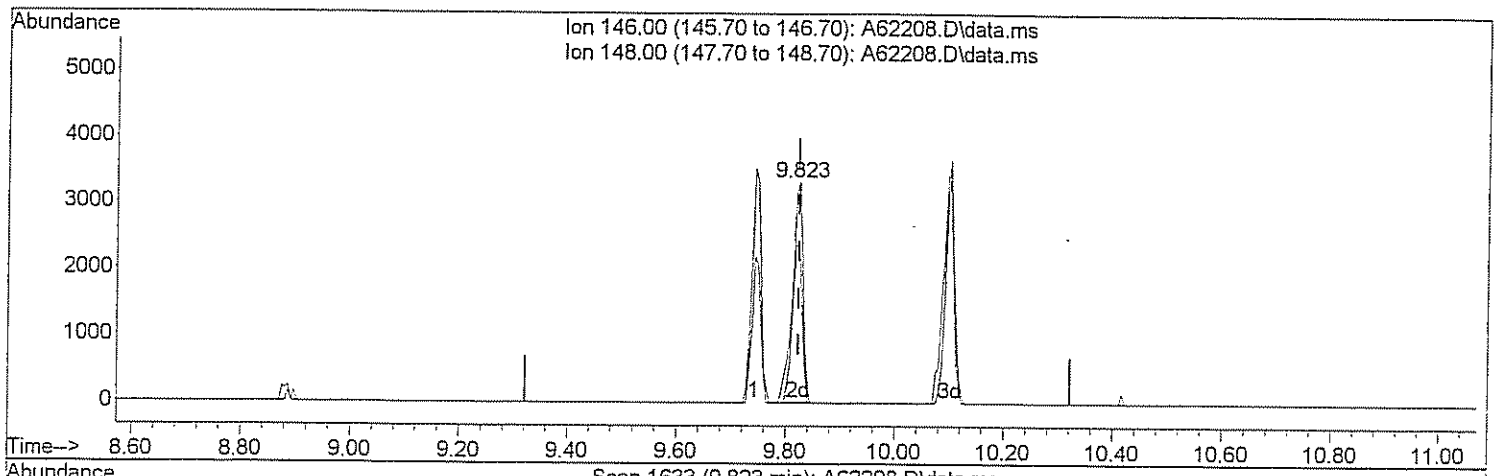
response 4018

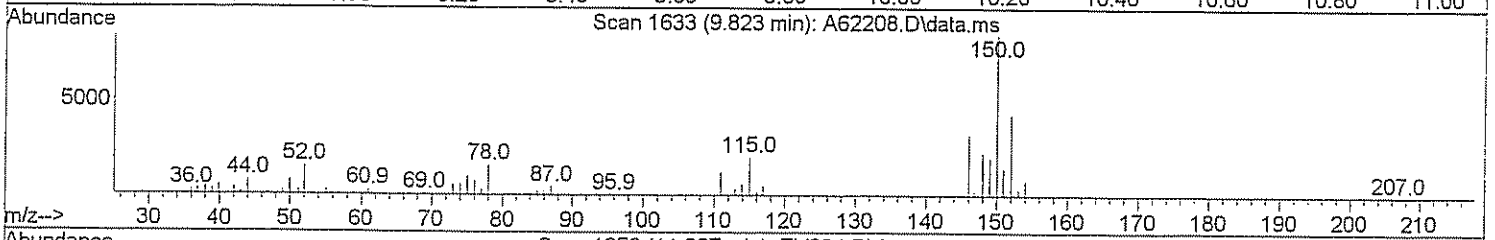
Ion	Exp%	Act%
146.00	100	100
148.00	64.40	61.60
0.00	0.00	0.00
0.00	0.00	0.00

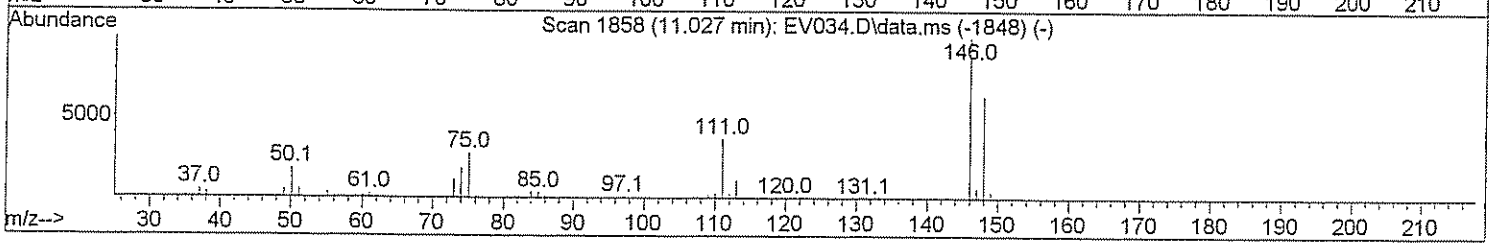
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration







TIC: A62208.D\data.ms

(90) 1,4-Dichlorobenzene

9.823min (+0.000) 0.87 ug/L m Sm 3/12/09

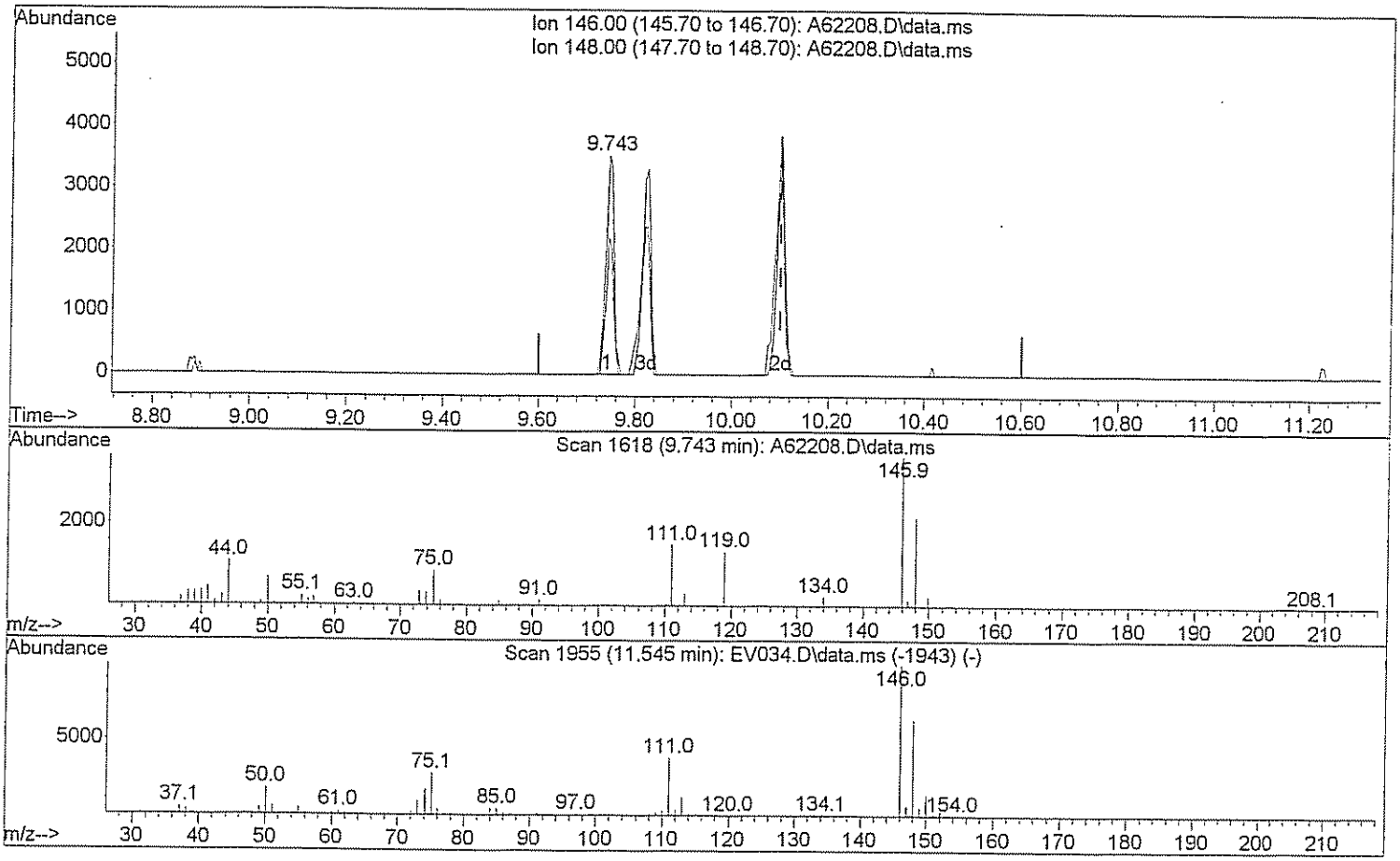
response 4003

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	61.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(92) 1,2-Dichlorobenzene

9.743min (-0.358) 0.91 ug/L

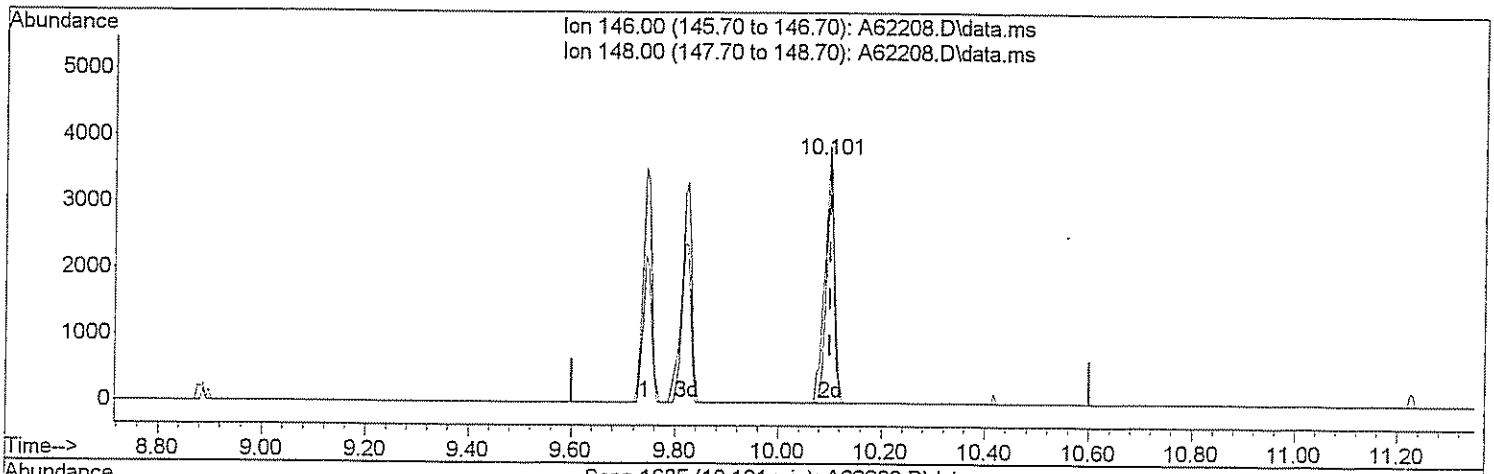
response 4018

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	61.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(92) 1,2-Dichlorobenzene

10.101min (+0.000) 0.92 ug/L m SM 3/12/09

response 4028

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	61.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	343842	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.682	114	277412	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.779	117	261482	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	95705	50.37	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.74%				
53) Toluene-d8	6.148	98	315476	51.97	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.94%				
75) 4-Bromofluorobenzene	8.881	95	129887	49.99	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.98%				
91) 1,2-Dichlorobenzene-d4	10.085	152	141310	49.56	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 99.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.210	85	3830	4.98	ug/L	#	64
3) Chloromethane	1.338	50	4413m	3.48	ug/L		
4) Vinyl chloride	1.418	62	4812	3.39	ug/L	#	1
5) Bromomethane	1.648	94	1858m	3.59	ug/L		
6) Chloroethane	1.713	64	4204	4.35	ug/L		99
7) Trichlorofluoromethane	1.862	101	8446	3.83	ug/L		98
8) Ethyl Ether	2.060	59	6370	4.97	ug/L		93
9) Freon 113	2.199	101	5527	4.79	ug/L		82
10) Acrolein	2.210	56	9441	33.91	ug/L	#	82
11) Tert-Butyl alcohol	2.681	59	10480	78.91	ug/L	#	47
12) 1,1-Dichloroethene	2.226	96	6425	5.24	ug/L		83
13) Iodomethane	2.349	142	3751	2.74	ug/L		99
14) Acetonitrile	2.499	40	23368	30.78	ug/L	#	1
15) Methylene chloride	2.606	84	9294	6.28	ug/L		91
16) Trans-1,2-dichloroethene	2.772	96	6225	4.60	ug/L		81
17) Isopropyl ether	3.104	45	26332	4.83	ug/L		94
18) 1,1-Dichloroethane	3.125	63	11511	4.59	ug/L		100
19) Acetone	2.312	43	5155	9.89	ug/L		95
20) Methyl Acetate	4.270	43	5433	3.83	ug/L	#	100
21) MTBE	2.756	73	19815	4.97	ug/L		100
22) Carbon disulfide	2.376	76	26231	6.64	ug/L		100
24) Acrylonitrile	2.847	53	11962	24.97	ug/L		98
25) Chloroprene	3.157	53	11999	5.37	ug/L		93
26) n-Heptane	4.446	71	5639m	5.08	ug/L		
27) 2,2-Dichloropropane	3.558	77	8708	4.26	ug/L	#	76
28) Cis-1,2-dichloroethene	3.590	96	7602	4.82	ug/L		100

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	14539m	9.67 ug/L	
30) Propionitrile	3.746	54	10988	47.71 ug/L	97
31) Bromochloromethane	3.788	128	3461	4.40 ug/L	97
32) Tetrahydrofuran	3.799	72	1843	4.48 ug/L #	22
33) Chloroform	3.847	83	12242	4.52 ug/L	100
34) Cyclohexane	3.943	56	11816	4.85 ug/L #	89
35) 1,1,1-Trichloroethane	3.970	97	9718	4.49 ug/L	99
36) Carbon tetrachloride	4.066	117	5862	3.18 ug/L	97
37) Methylcyclohexane	4.997	83	10799	4.61 ug/L	97
38) Isobutyl Alcohol	4.441	43	9783	94.55 ug/L	93
41) 2-Butanone	3.622	43	10170	10.64 ug/L	93
42) 1,1-Dichloropropene	4.109	75	8234	4.43 ug/L	100
43) Vinyl Acetate	3.146	43	8515	4.10 ug/L	99
44) Benzene	4.291	78	28172	4.74 ug/L	100
45) 1,2-Dichloroethane	4.382	62	8918	4.59 ug/L #	84
46) Trichloroethene	4.890	95	8052	5.45 ug/L	99
47) 1,2-Dichloropropane	5.163	63	7176	4.49 ug/L	95
48) Methyl methacrylate	5.270	69	5527	4.84 ug/L	91
49) Dibromomethane	5.286	93	4213	4.23 ug/L	98
50) Bromodichloromethane	5.436	83	8163	3.96 ug/L	100
51) 2-Chloroethylvinyl ether	5.778	63	19642	18.04 ug/L	97
52) Cis-1,3-dichloropropene	5.918	75	9392	3.58 ug/L	98
54) Toluene	6.217	92	15979	4.77 ug/L	88
55) Trans-1,3-dichloropropene	6.570	75	9064	4.18 ug/L	95
56) Ethyl methacrylate	6.624	69	9749	5.06 ug/L	91
57) 1,1,2-Trichloroethane	6.773	83	5523	5.20 ug/L	98
59) 4-Methyl-2-pentanone	6.099	43	15998	9.10 ug/L #	89
60) 2-Hexanone	7.068	43	11298	9.48 ug/L	95
61) Tetrachloroethene	6.800	166	6581	4.49 ug/L	97
62) 1,3-Dichloropropane	6.977	76	9963	4.56 ug/L	98
63) Dibromochloromethane	7.185	129	6365	4.04 ug/L	98
64) 1,2-Dibromoethane	7.314	107	5992	4.30 ug/L	97
65) 1-Chlorohexane	7.790	91	10540	5.17 ug/L	91
66) Chlorobenzene	7.811	112	19254	4.25 ug/L	90
67) 1,1,1,2-Tetrachloroethane	7.908	131	5918	3.43 ug/L #	18
68) Ethylbenzene	7.897	91	33493	4.45 ug/L	97
69) m,p-Xylene	8.020	106	27480	8.76 ug/L	88
70) o-Xylene	8.394	106	13980	4.41 ug/L	92
71) Xylene (Total)	8.020	106	41457m	13.09 ug/L	
72) Styrene	8.421	104	22867	4.33 ug/L	94
73) Bromoform	8.598	173	3822	3.41 ug/L	90
74) Isopropylbenzene	8.715	105	29480	4.20 ug/L	98

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration

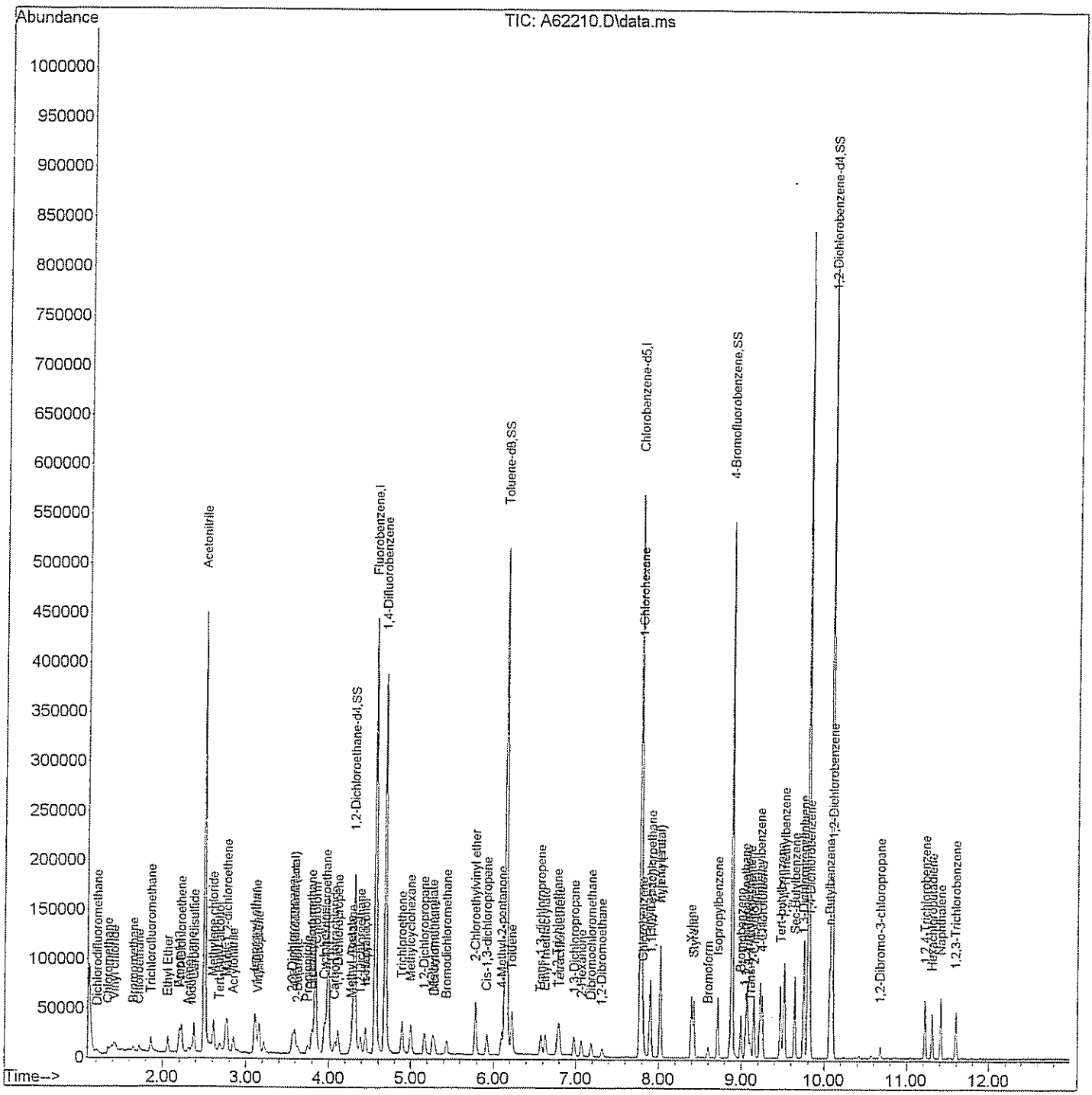
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	8840	4.56 ug/L	97
77) 1,1,2,2-Tetrachloroethane	9.047	83	9148	4.47 ug/L	91
78) 1,2,3-Trichloropropane	9.085	110	3089	5.08 ug/L	89
79) n-Propylbenzene	9.068	91	41149	4.35 ug/L	98
80) Trans-1,4-dichloro-2-b...	9.111	53	2390	3.81 ug/L #	23
81) 2-Chlorotoluene	9.154	126	8985	4.44 ug/L	86
82) 4-Chlorotoluene	9.245	126	9326	4.40 ug/L	98
83) 1,3,5-Trimethylbenzene	9.224	105	29829	4.07 ug/L	93
84) Tert-butylbenzene	9.470	119	26494	4.06 ug/L	93
86) 1,2,4-Trimethylbenzene	9.518	105	31761	4.18 ug/L	96
87) Sec-Butylbenzene	9.641	105	42313	4.23 ug/L	99
88) 1,3-Dichlorobenzene	9.743	146	18398	4.26 ug/L	100
89) 4-Isopropyltoluene	9.753	119	34679	3.90 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	18842	4.36 ug/L	97
92) 1,2-Dichlorobenzene	10.101	146	17699m	4.30 ug/L	
93) n-Butylbenzene	10.058	91	34955	4.33 ug/L	96
94) 1,2-Dibromo-3-chloropr...	10.679	75	1881	4.46 ug/L	85
95) 1,2,4-Trichlorobenzene	11.224	180	12168	4.43 ug/L	99
96) Hexachlorobutadiene	11.305	225	5120	4.38 ug/L	95
97) Naphthalene	11.412	128	35867	4.70 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	10919	4.46 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

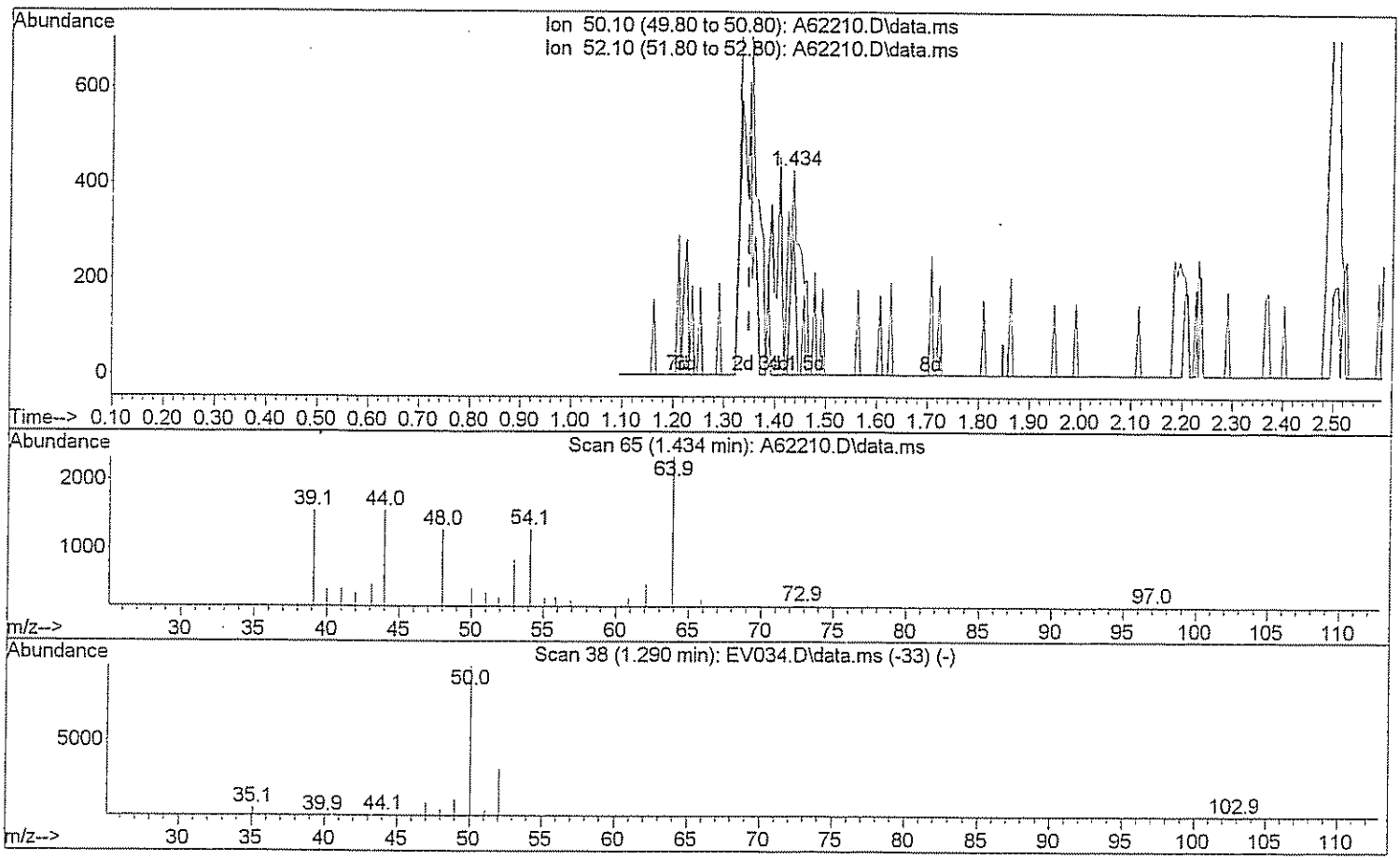
Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(3) Chloromethane

1.434min (+0.085) 0.56 ug/L

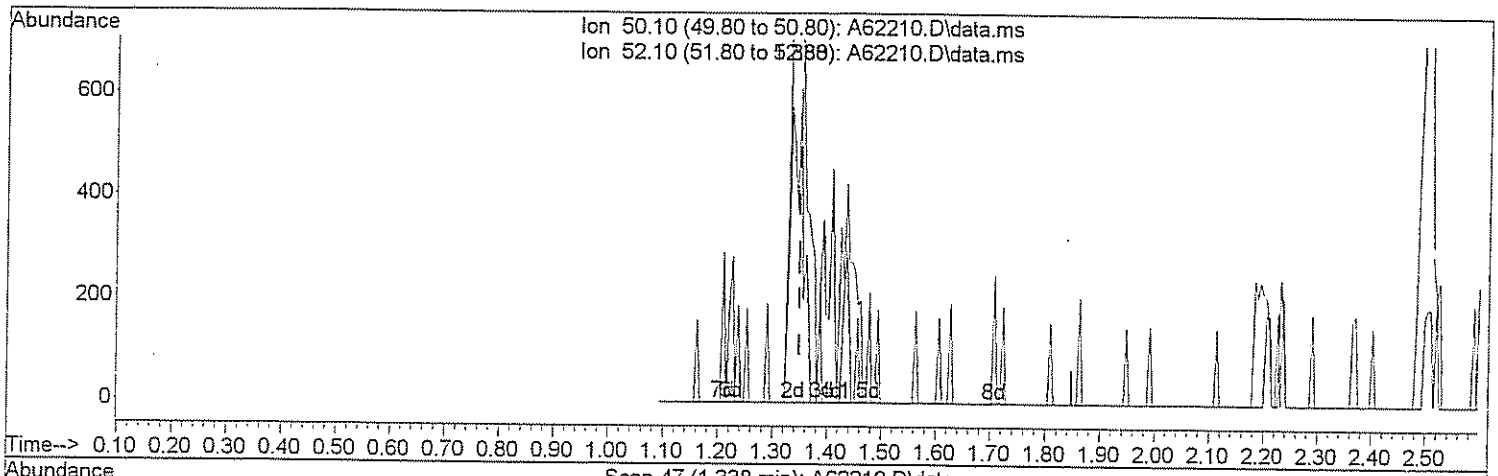
response 707

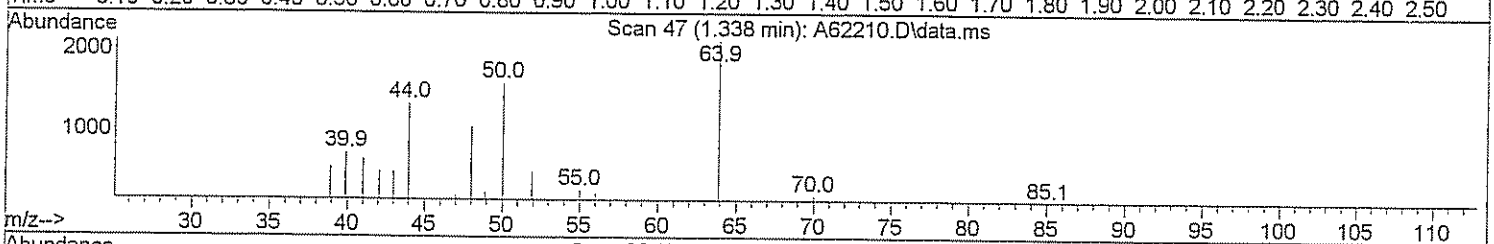
Ion	Exp%	Act%
50.10	100	100
52.10	32.20	29.56
0.00	0.00	0.00
0.00	0.00	0.00

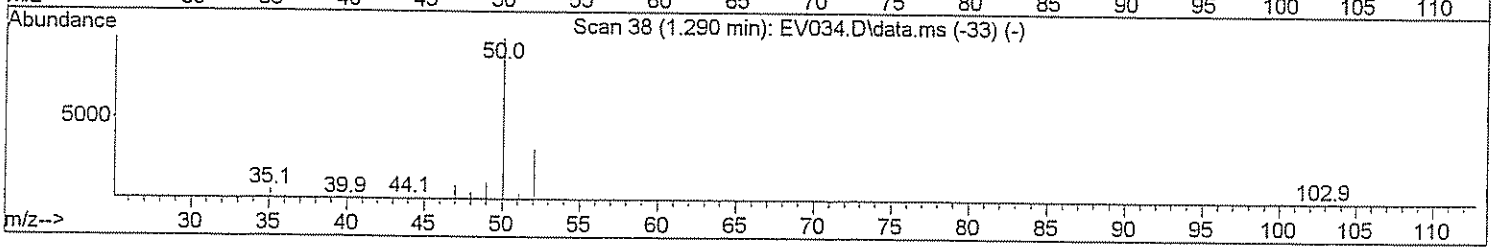
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration







TIC: A62210.D\data.ms

(3) Chloromethane

1.338min (-0.011) 3.48 ug/L m 3/12/09

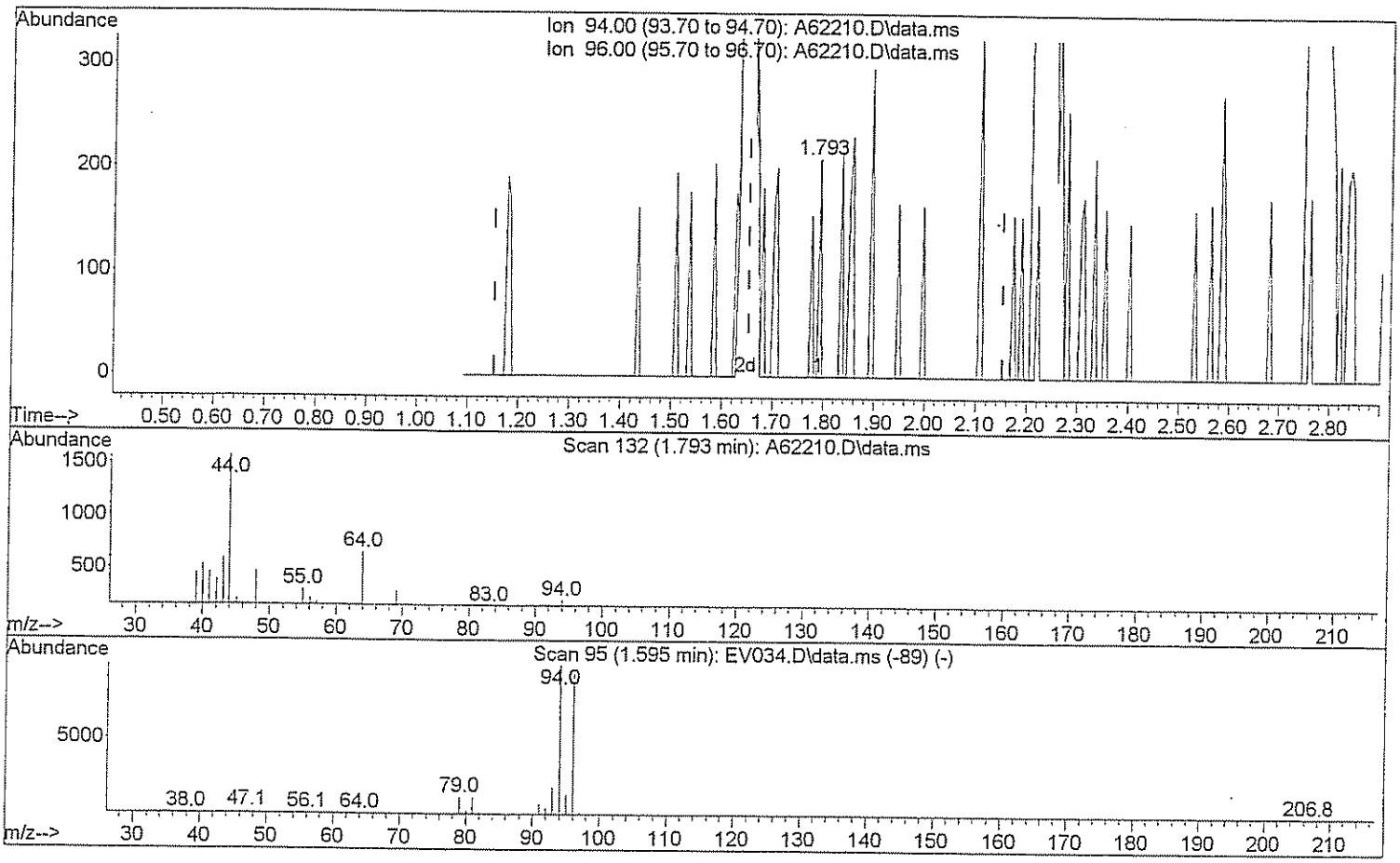
response 4413

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	4.74#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(5) Bromomethane

1.793min (+0.139) 0.13 ug/L

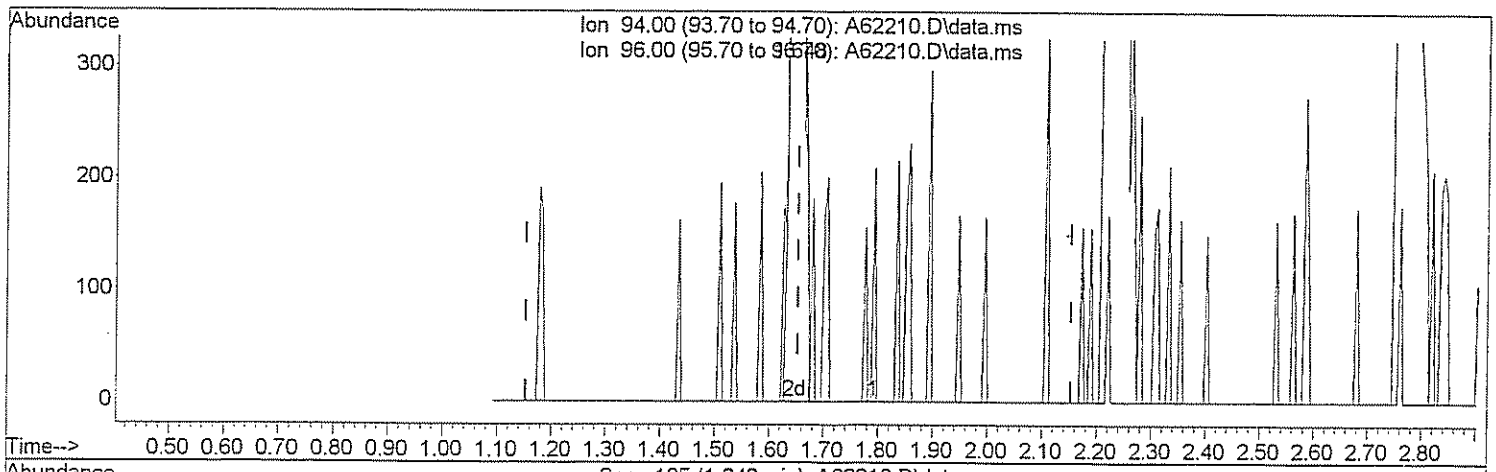
response 67

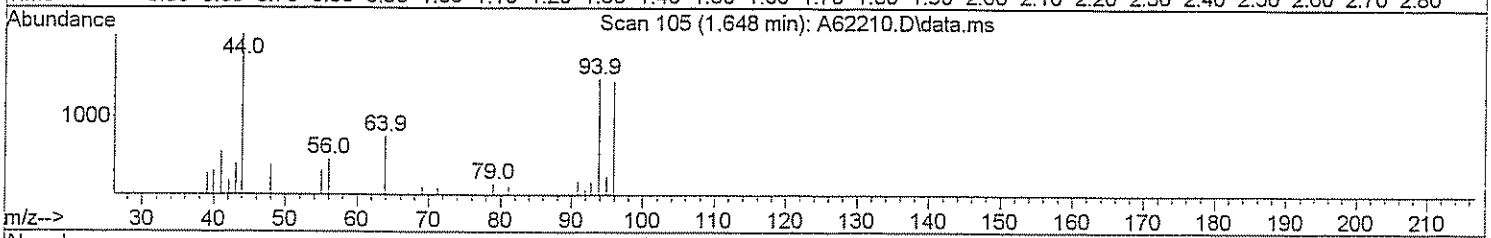
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	102.99
0.00	0.00	0.00
0.00	0.00	0.00

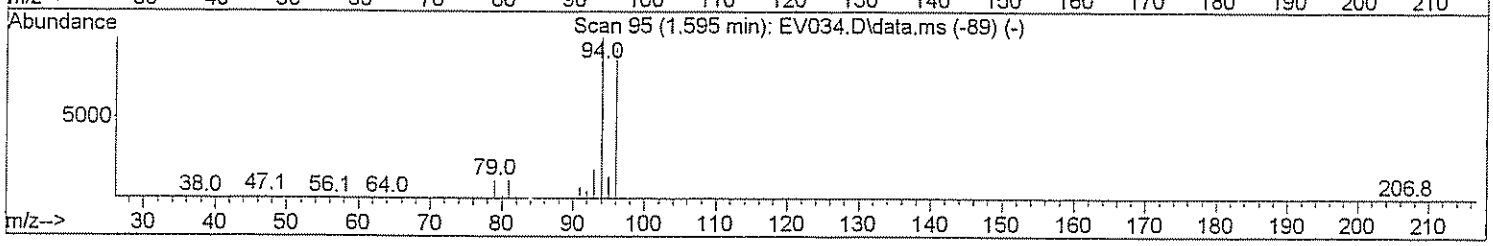
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration







TIC: A62210.D\data.ms

(5) Bromomethane

1.648min (-0.005) 3.59 ug/L m DW 3/12/09

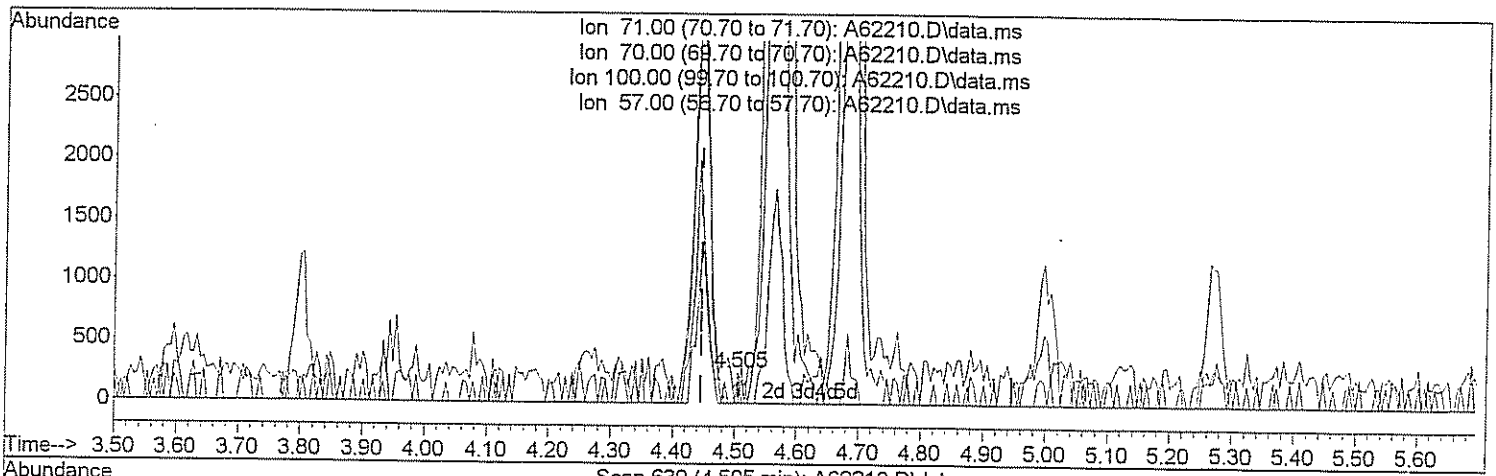
response 1858

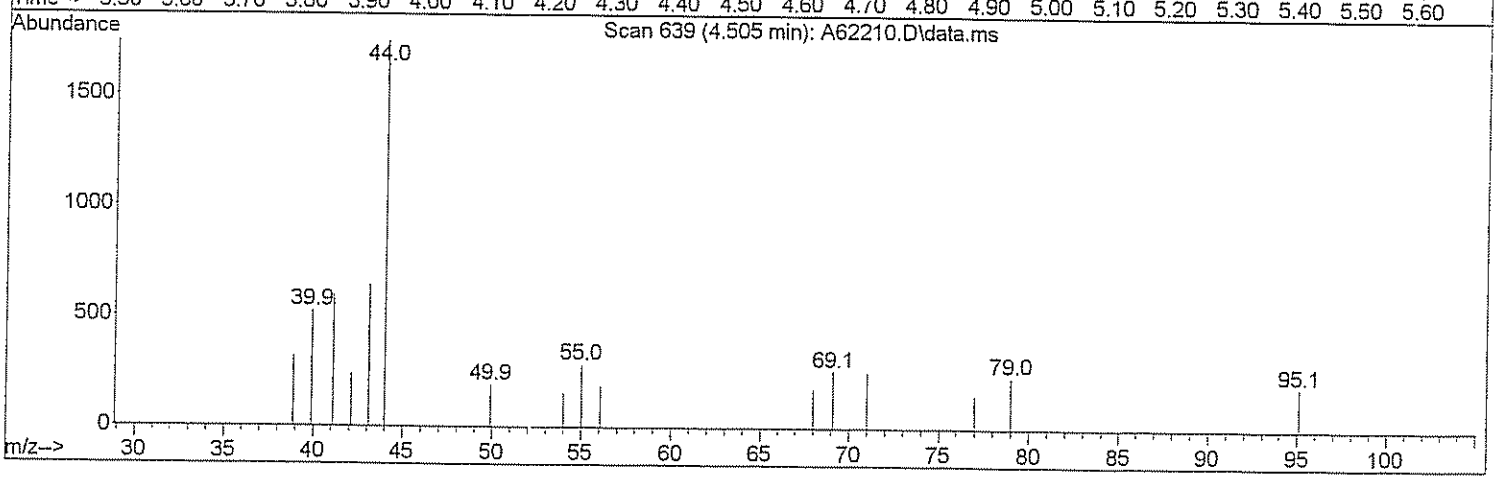
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	3.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration





TIC: A62210.D\data.ms

(26) n-Heptane (T)

4.505min (+0.059) 0.13 ug/L

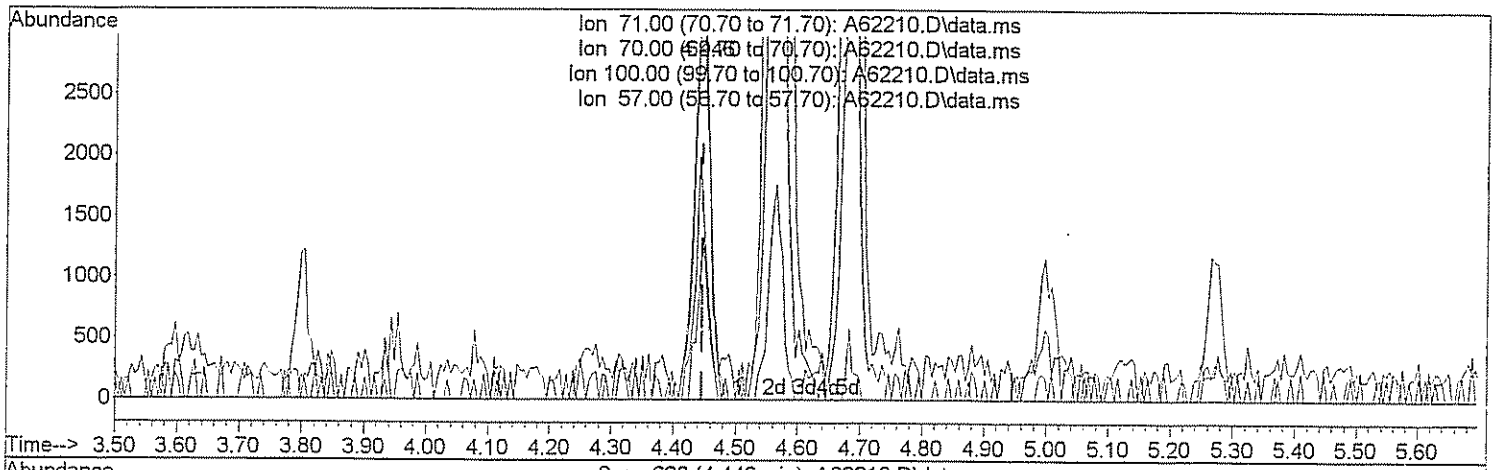
response 140

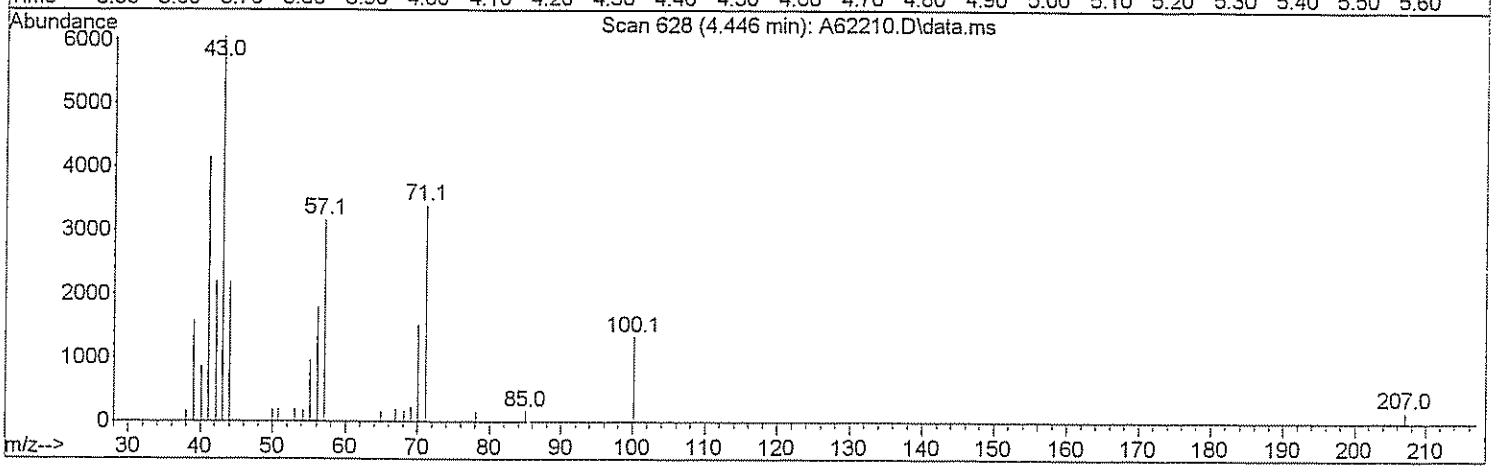
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	60.00	0.00#
57.00	34.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration





TIC: A62210.D\data.ms

(26) n-Heptane (T)

4.446min (-0.000) 5.08 ug/L m 3/12/09

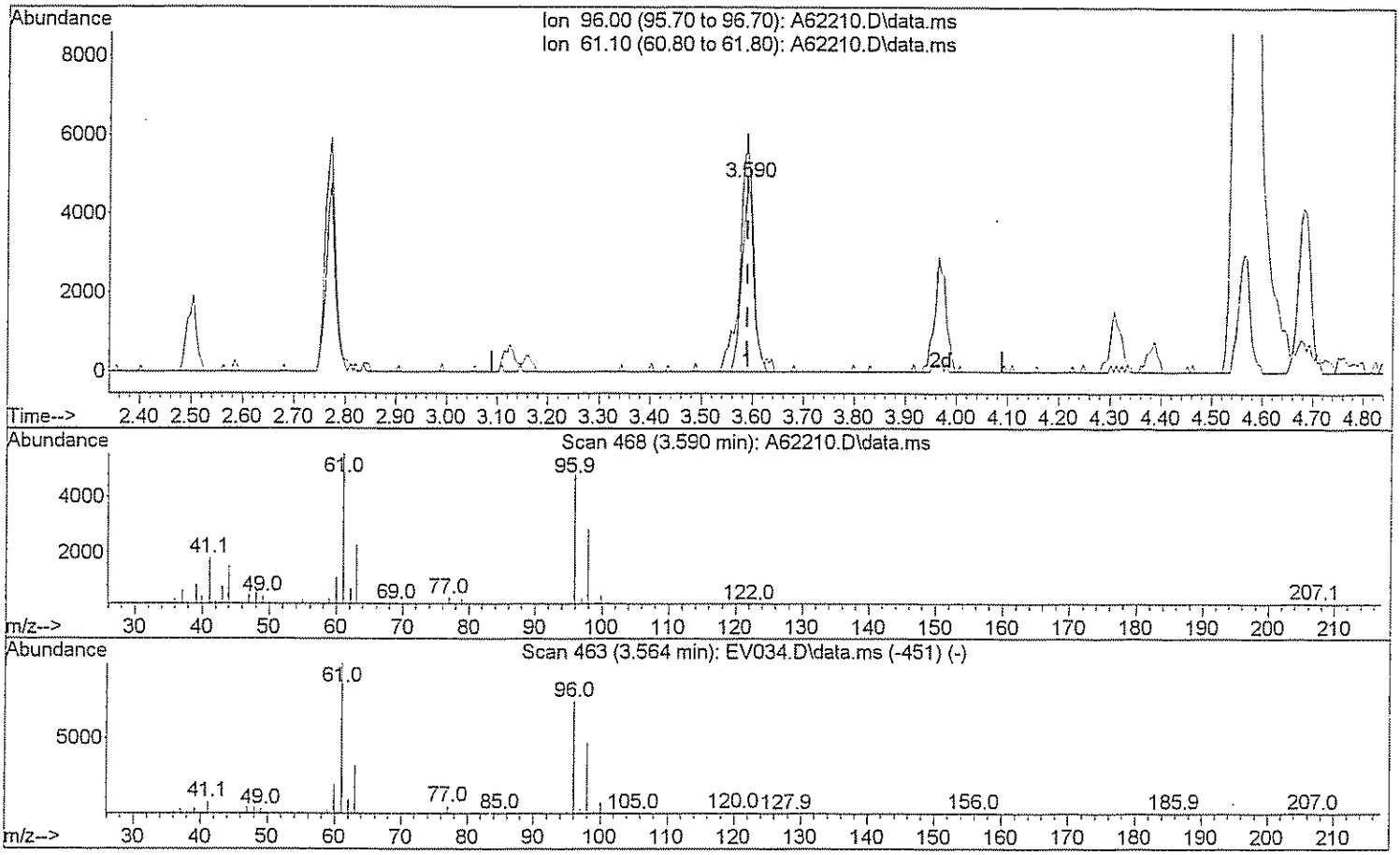
response 5639

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	60.00	0.00#
57.00	34.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.000) 5.06 ug/L

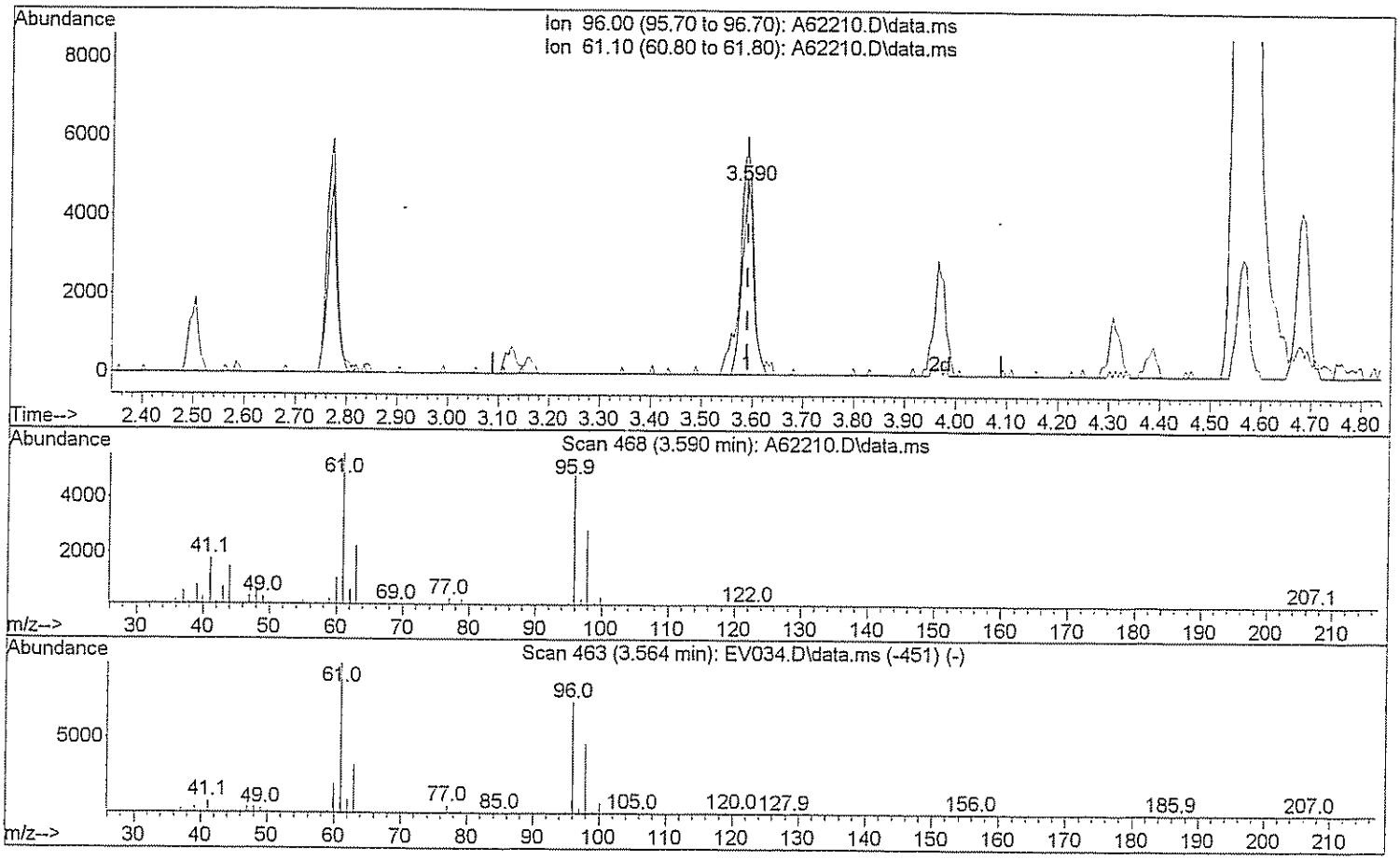
response 7602

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	144.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.000) 9.67 ug/L m DW 3/12/09

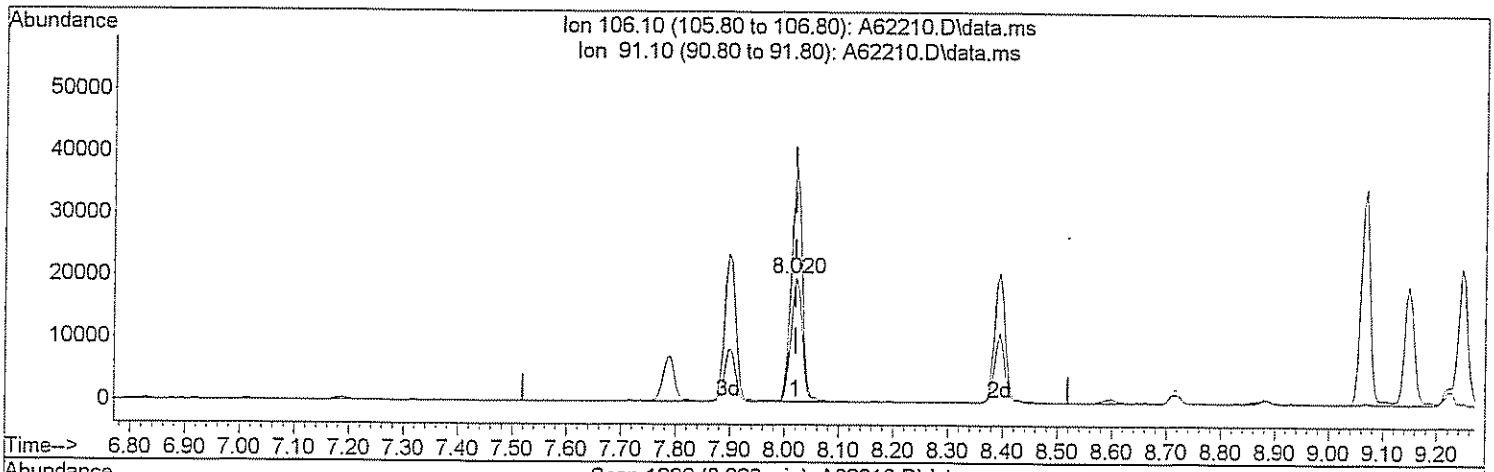
response 14539

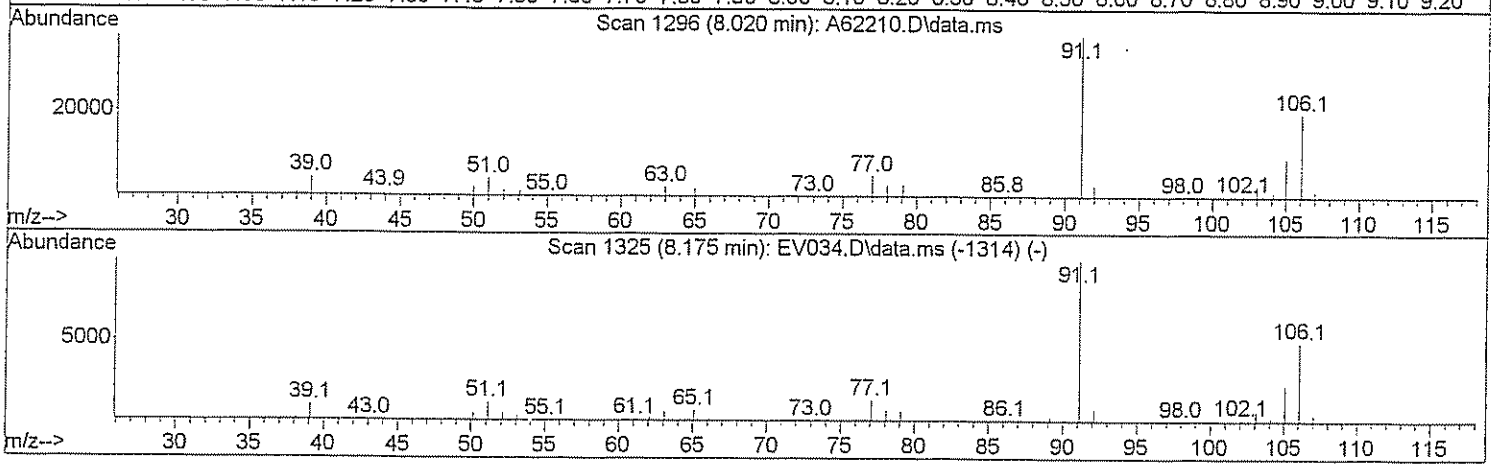
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	75.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration





TIC: A62210.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 8.68 ug/L

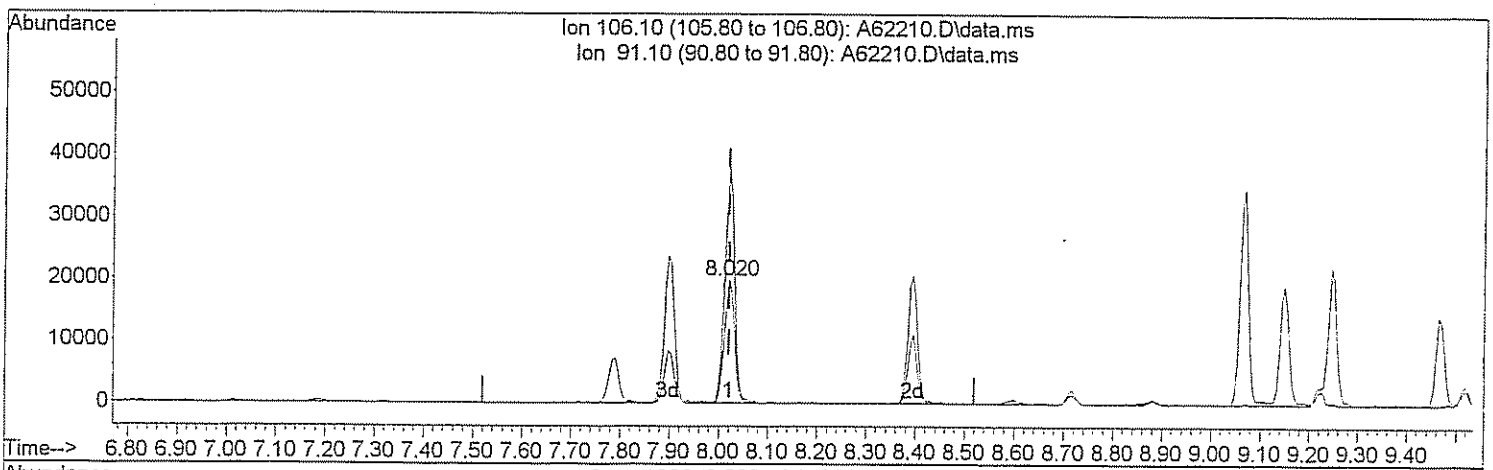
response 27480

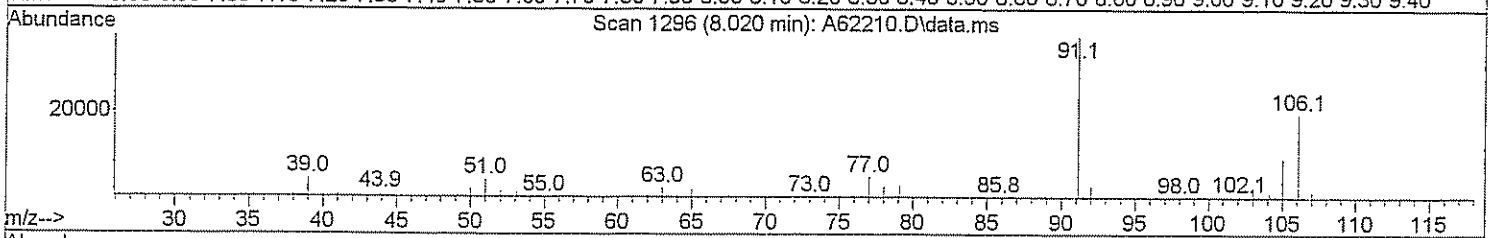
Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.99
0.00	0.00	0.00
0.00	0.00	0.00

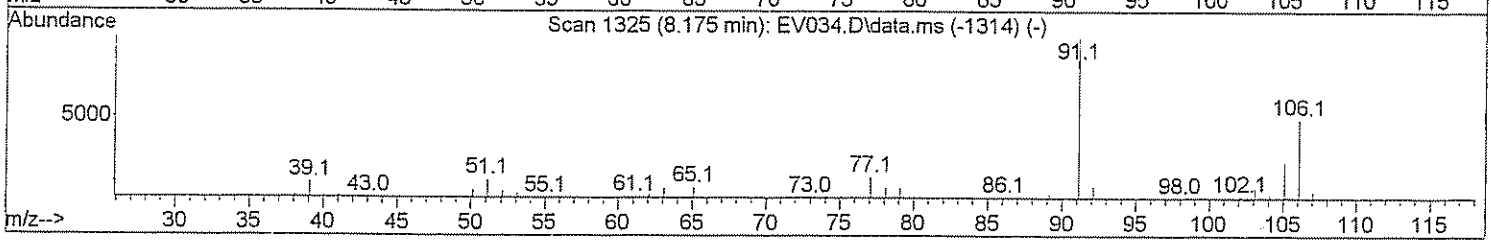
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration







TIC: A62210.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 13.09 ug/L m

3/12/09

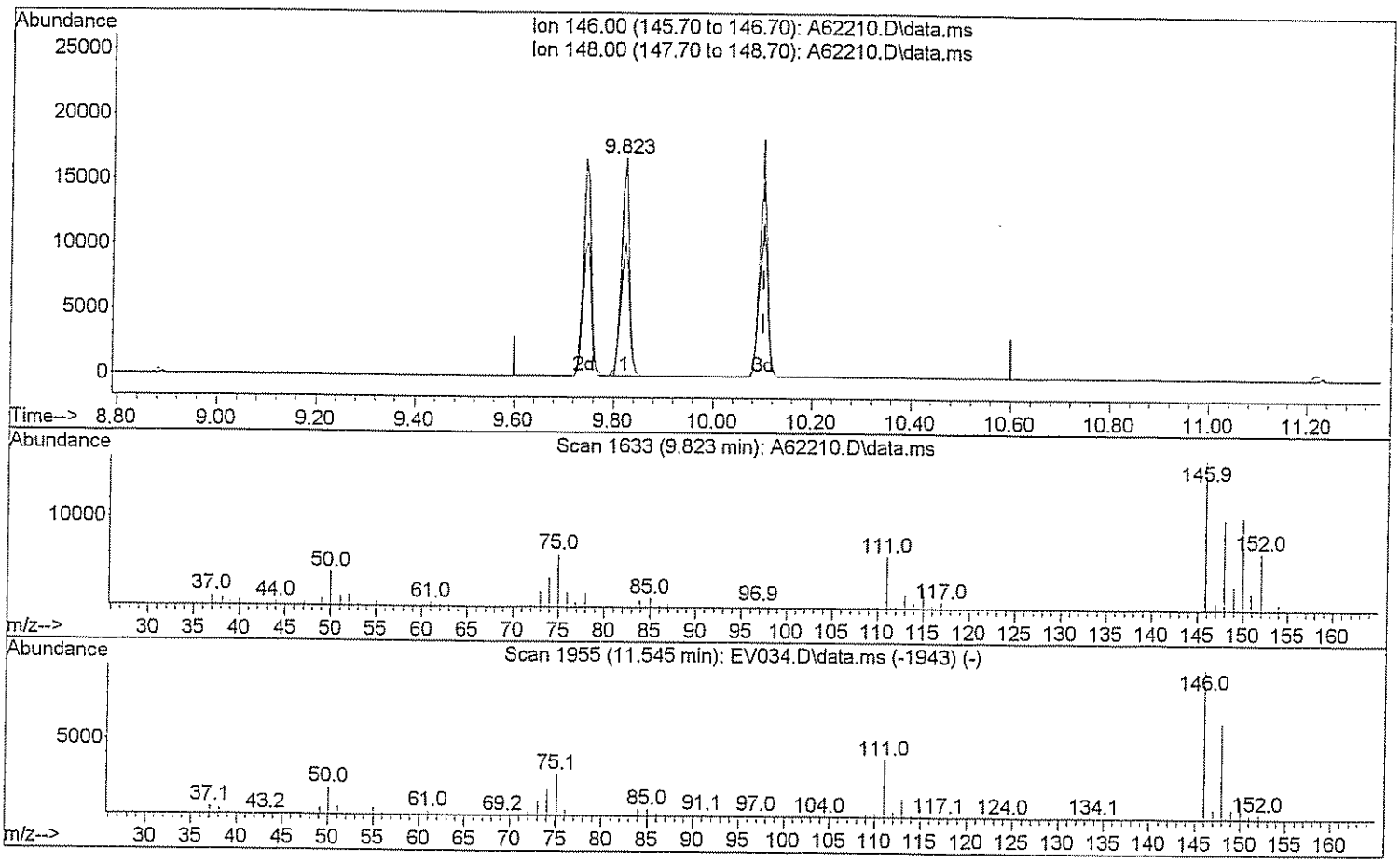
response 41457

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.27#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(92) 1,2-Dichlorobenzene

9.823min (-0.278) 4.58 ug/L

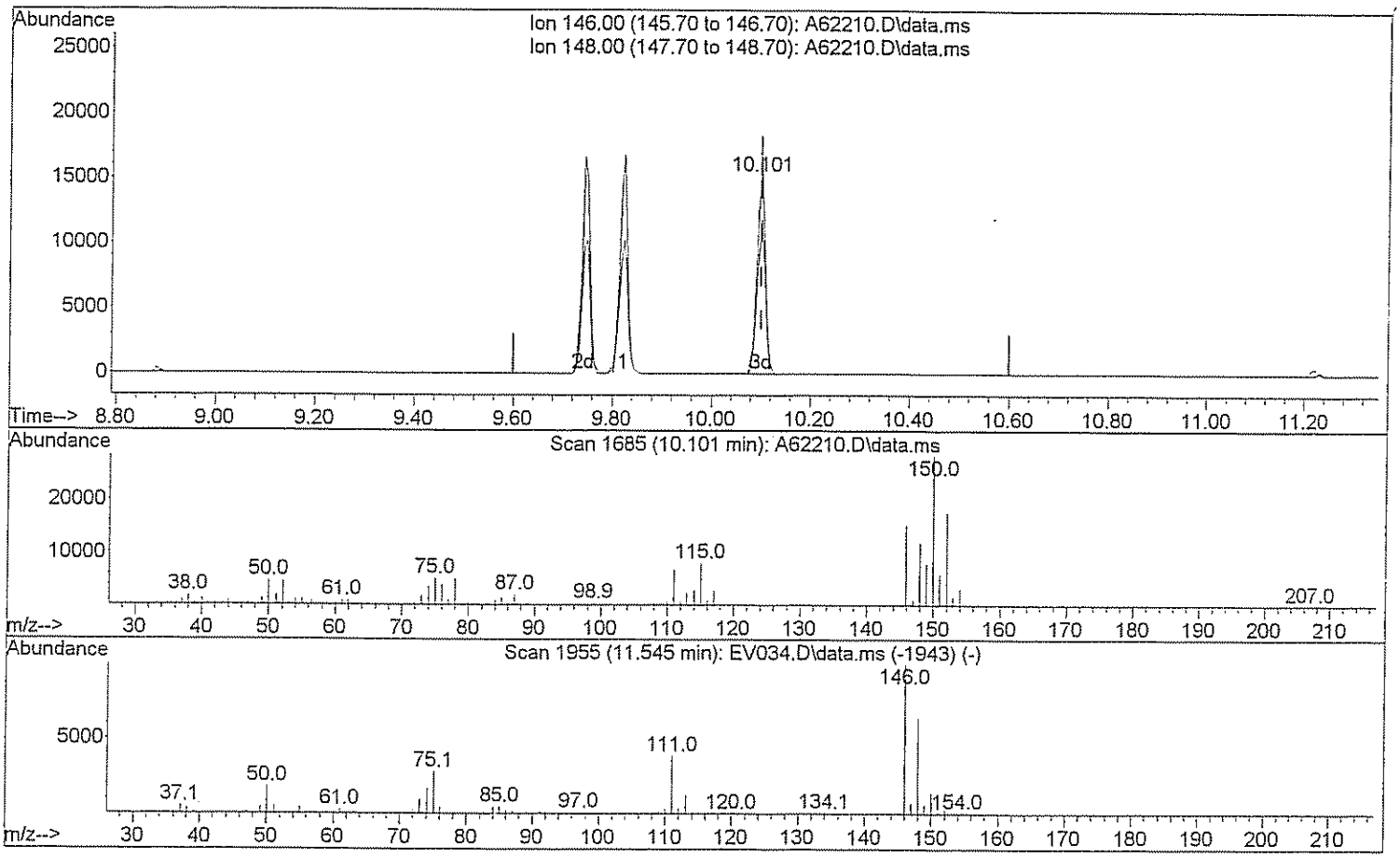
response 18842

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	66.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(92) 1,2-Dichlorobenzene

10.101min (-0.000) 4.30 ug/L m 3/12/09

response 17699

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	70.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	409726	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	330513	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.785	117	315909	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	110975	48.69	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.38%				
53) Toluene-d8	6.148	98	379105	53.28	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 106.56%				
75) 4-Bromofluorobenzene	8.881	95	152358	48.07	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.14%				
91) 1,2-Dichlorobenzene-d4	10.085	152	167323	48.12	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 96.24%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	19480	21.73	ug/L		97
3) Chloromethane	1.349	50	23222m	14.27	ug/L		
4) Vinyl chloride	1.419	62	32576	19.04	ug/L		94
5) Bromomethane	1.654	94	10106m	15.46	ug/L		
6) Chloroethane	1.723	64	22942	19.88	ug/L		94
7) Trichlorofluoromethane	1.868	101	44284	16.03	ug/L		100
8) Ethyl Ether	2.066	59	28733	18.46	ug/L		97
9) Freon 113	2.205	101	28845	21.34	ug/L		89
10) Acrolein	2.216	56	28388	81.65	ug/L	#	61
11) Tert-Butyl alcohol	2.681	59	41475	235.05	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	28807	19.62	ug/L		81
13) Iodomethane	2.355	142	28958	17.12	ug/L		98
14) Acetonitrile	2.505	40	144920	150.20	ug/L	#	1
15) Methylene chloride	2.611	84	35741	20.35	ug/L		95
16) Trans-1,2-dichloroethene	2.777	96	31259	19.19	ug/L		88
17) Isopropyl ether	3.109	45	125677	19.13	ug/L		98
18) 1,1-Dichloroethane	3.125	63	56249	18.45	ug/L		97
19) Acetone	2.317	43	20383	30.96	ug/L		93
20) Methyl Acetate	4.265	43	21872	11.56	ug/L	#	100
21) MTBE	2.756	73	91808	19.12	ug/L		100
22) Carbon disulfide	2.381	76	96195	20.60	ug/L		100
24) Acrylonitrile	2.852	53	49876	83.85	ug/L		97
25) Chloroprene	3.163	53	52417	19.68	ug/L		91
26) n-Heptane	4.446	71	29596m	23.29	ug/L		
27) 2,2-Dichloropropane	3.569	77	47849	19.51	ug/L	#	82
28) Cis-1,2-dichloroethene	3.591	96	36145	19.00	ug/L		97

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.591	96	70015m	38.80 ug/L	
30) Propionitrile	3.746	54	44496	152.51 ug/L	98
31) Bromochloromethane	3.799	128	17340	18.04 ug/L	99
32) Tetrahydrofuran	3.799	72	8278	16.04 ug/L #	1
33) Chloroform	3.847	83	57558	17.21 ug/L	98
34) Cyclohexane	3.949	56	59758	20.79 ug/L	92
35) 1,1,1-Trichloroethane	3.970	97	47769	18.07 ug/L	98
36) Carbon tetrachloride	4.077	117	41168	18.32 ug/L	99
37) Methylcyclohexane	5.003	83	56613	20.37 ug/L	93
38) Isobutyl Alcohol	4.446	43	54351	456.36 ug/L	87
41) 2-Butanone	3.623	43	39756	33.50 ug/L	96
42) 1,1-Dichloropropene	4.109	75	41549	18.39 ug/L	99
43) Vinyl Acetate	3.152	43	44485	17.99 ug/L	96
44) Benzene	4.291	78	131773	18.16 ug/L	100
45) 1,2-Dichloroethane	4.388	62	42968	18.14 ug/L #	87
46) Trichloroethene	4.890	95	33055	18.39 ug/L	96
47) 1,2-Dichloropropane	5.169	63	33765	17.10 ug/L	97
48) Methyl methacrylate	5.265	69	24981	17.88 ug/L	95
49) Dibromomethane	5.286	93	21693	17.76 ug/L	94
50) Bromodichloromethane	5.436	83	44815	17.75 ug/L	100
51) 2-Chloroethylvinyl ether	5.784	63	91447	67.79 ug/L	98
52) Cis-1,3-dichloropropene	5.918	75	52151	16.68 ug/L	98
54) Toluene	6.223	92	81022	20.48 ug/L	93
55) Trans-1,3-dichloropropene	6.570	75	48329	18.33 ug/L	97
56) Ethyl methacrylate	6.624	69	43535	18.47 ug/L	88
57) 1,1,2-Trichloroethane	6.779	83	26153	21.02 ug/L	97
59) 4-Methyl-2-pentanone	6.099	43	77981	35.75 ug/L	95
60) 2-Hexanone	7.068	43	51737	34.73 ug/L	99
61) Tetrachloroethene	6.800	166	33810	18.81 ug/L	96
62) 1,3-Dichloropropane	6.977	76	50610	18.89 ug/L	96
63) Dibromochloromethane	7.186	129	34334	17.46 ug/L	97
64) 1,2-Dibromoethane	7.319	107	31724	18.48 ug/L	99
65) 1-Chlorohexane	7.785	91	46819	18.71 ug/L	99
66) Chlorobenzene	7.811	112	100842	17.96 ug/L	91
67) 1,1,1,2-Tetrachloroethane	7.908	131	35757	16.36 ug/L	92
68) Ethylbenzene	7.897	91	164411	17.50 ug/L	98
69) m,p-Xylene	8.020	106	134760	34.29 ug/L	90
70) o-Xylene	8.395	106	67882	17.05 ug/L	93
71) Xylene (Total)	8.020	106	203312m	51.20 ug/L	
72) Styrene	8.421	104	114507	17.36 ug/L	96
73) Bromoform	8.598	173	23166	16.30 ug/L	98
74) Isopropylbenzene	8.716	105	150702	17.13 ug/L	100

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration

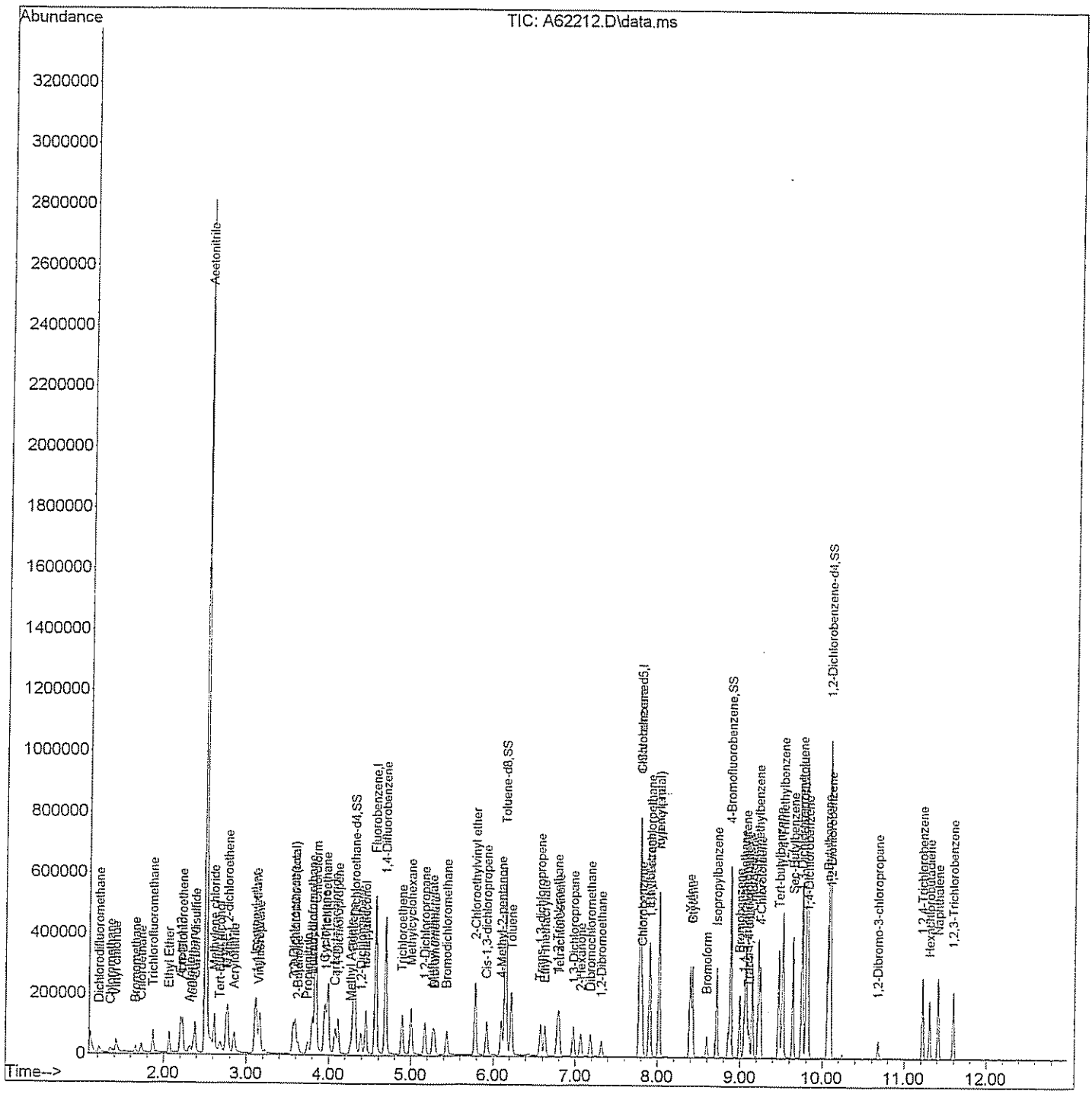
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	41612	17.15 ug/L	97
77) 1,1,2,2-Tetrachloroethane	9.047	83	44605	17.47 ug/L	97
78) 1,2,3-Trichloropropane	9.085	110	13392	17.69 ug/L	94
79) n-Propylbenzene	9.069	91	205193	17.34 ug/L	97
80) Trans-1,4-dichloro-2-b...	9.106	53	12672	15.88 ug/L #	1
81) 2-Chlorotoluene	9.149	126	43189	16.99 ug/L	90
82) 4-Chlorotoluene	9.250	126	46625	17.68 ug/L	91
83) 1,3,5-Trimethylbenzene	9.224	105	152269	16.45 ug/L	96
84) Tert-butylbenzene	9.470	119	133899	16.17 ug/L	96
86) 1,2,4-Trimethylbenzene	9.518	105	157251	16.36 ug/L	93
87) Sec-Butylbenzene	9.641	105	211037	16.78 ug/L	98
88) 1,3-Dichlorobenzene	9.743	146	87761	15.95 ug/L	100
89) 4-Isopropyltoluene	9.753	119	179498	15.83 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	90943	16.72 ug/L	99
92) 1,2-Dichlorobenzene	10.101	146	87372	16.89 ug/L	97
93) n-Butylbenzene	10.058	91	170848	16.82 ug/L	95
94) 1,2-Dibromo-3-chloropr...	10.679	75	8734	16.38 ug/L	80
95) 1,2,4-Trichlorobenzene	11.219	180	56222	16.12 ug/L	98
96) Hexachlorobutadiene	11.305	225	24297	16.43 ug/L	99
97) Naphthalene	11.412	128	161770	16.87 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	50626	16.33 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

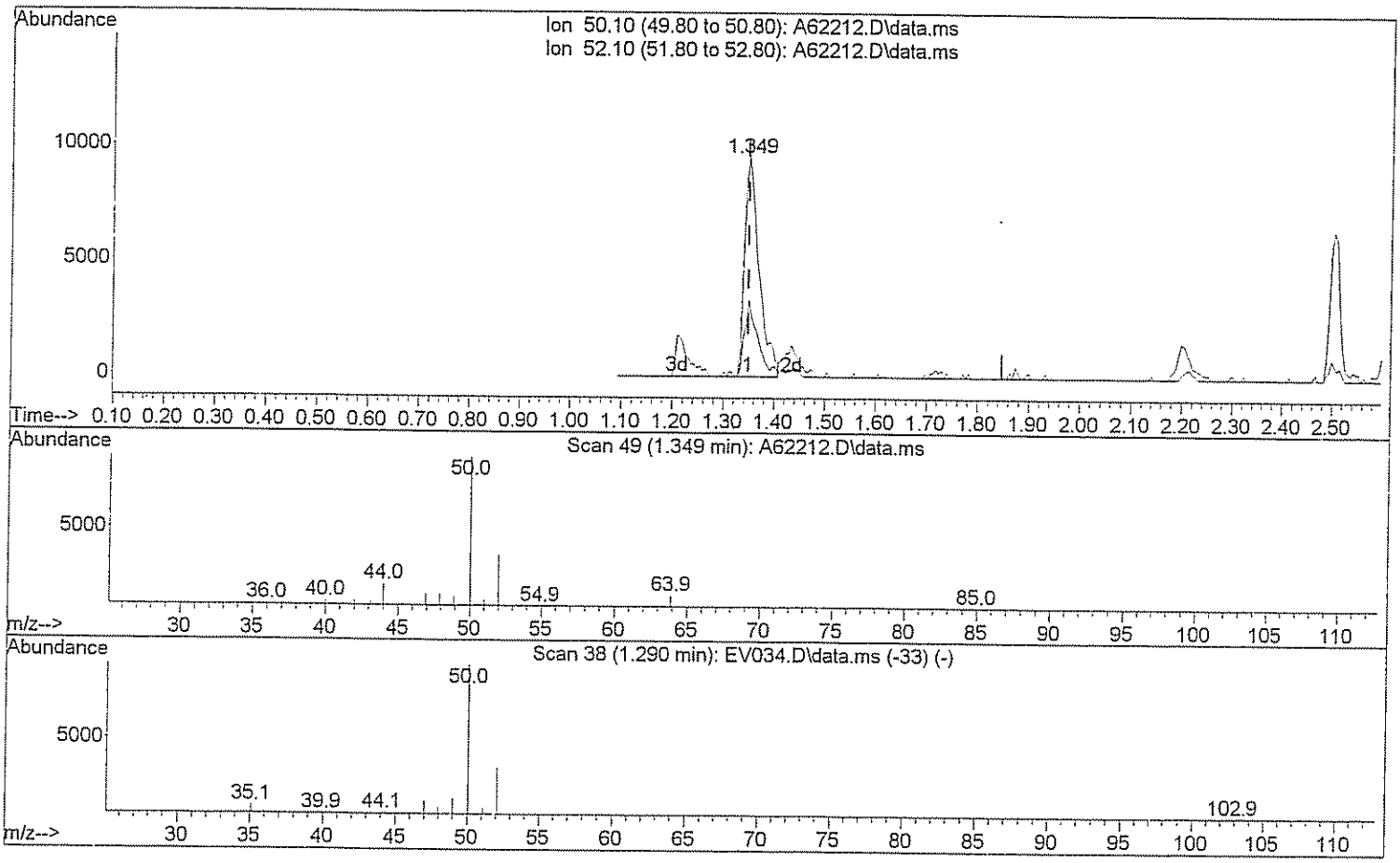
Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(3) Chloromethane

1.349min (-0.000) 11.81 ug/L

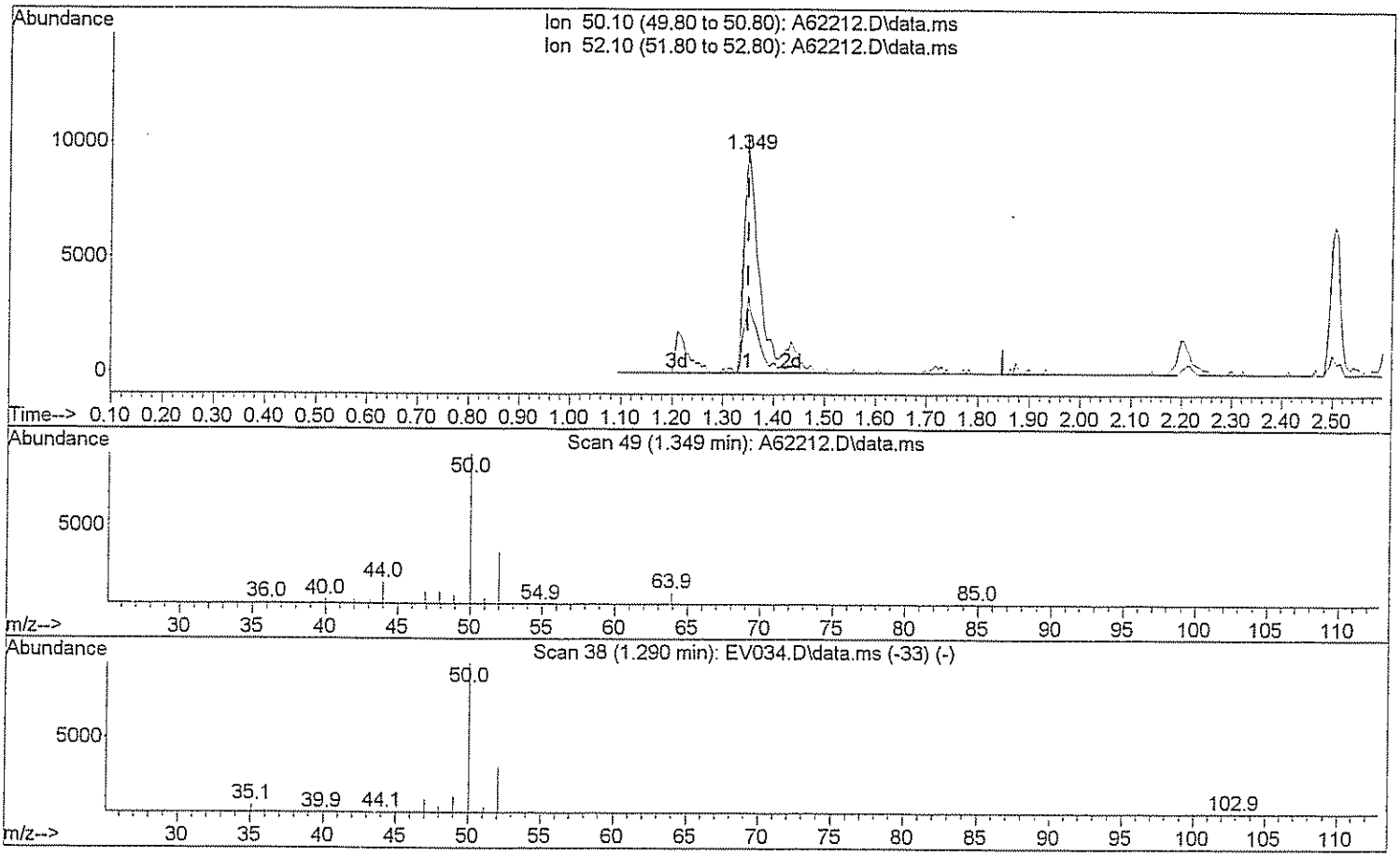
response 19214

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	30.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(3) Chloromethane

1.349min (-0.000) 14.27 ug/L m

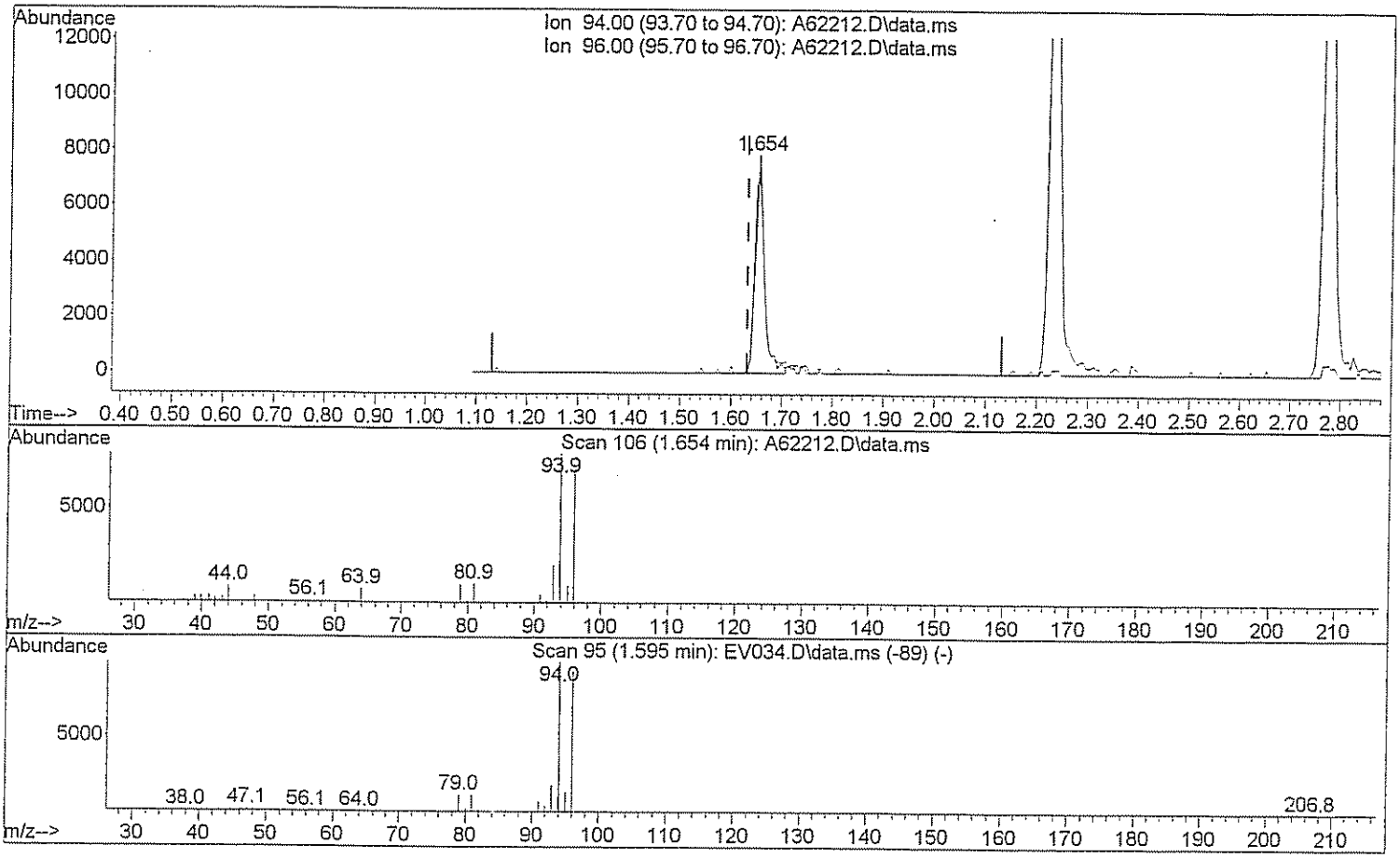
response 23222

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	25.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(5) Bromomethane

1.654min (+0.021) 14.75 ug/L

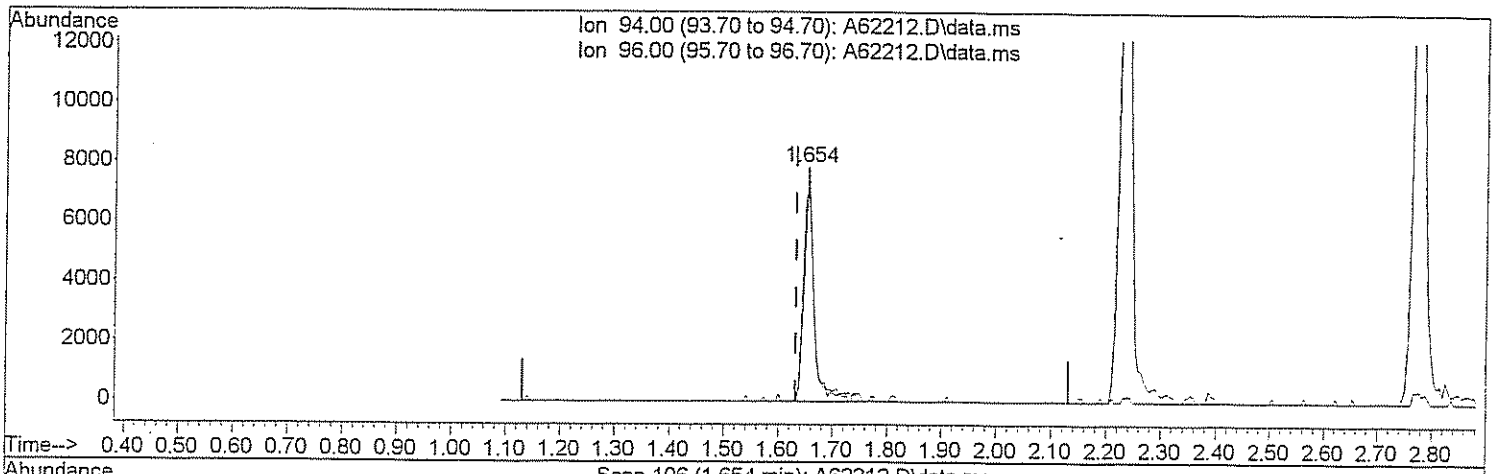
response 9642

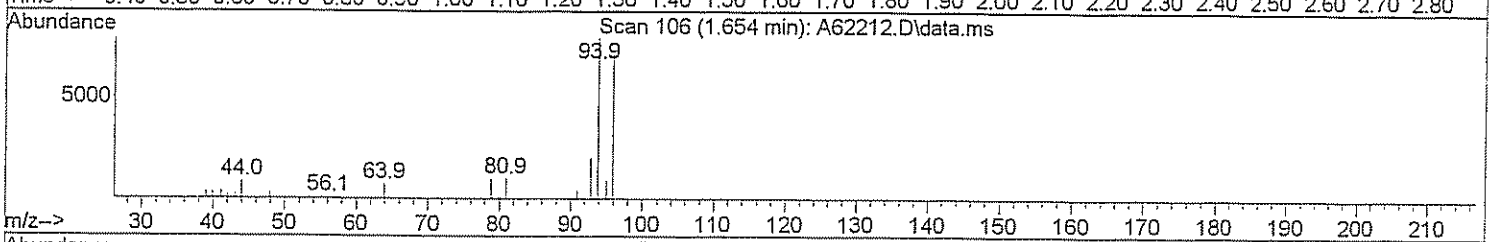
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	104.59
0.00	0.00	0.00
0.00	0.00	0.00

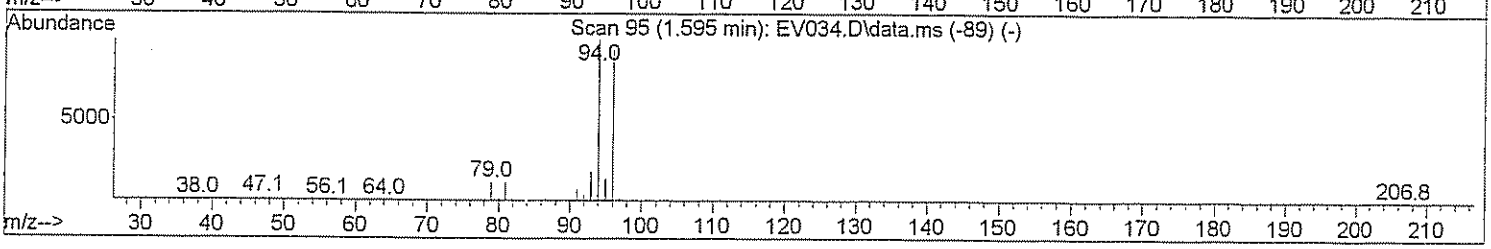
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration







TIC: A62212.D\data.ms

(5) Bromomethane

1.654min (+0.021) 15.46 ug/L m DW 3/12/09

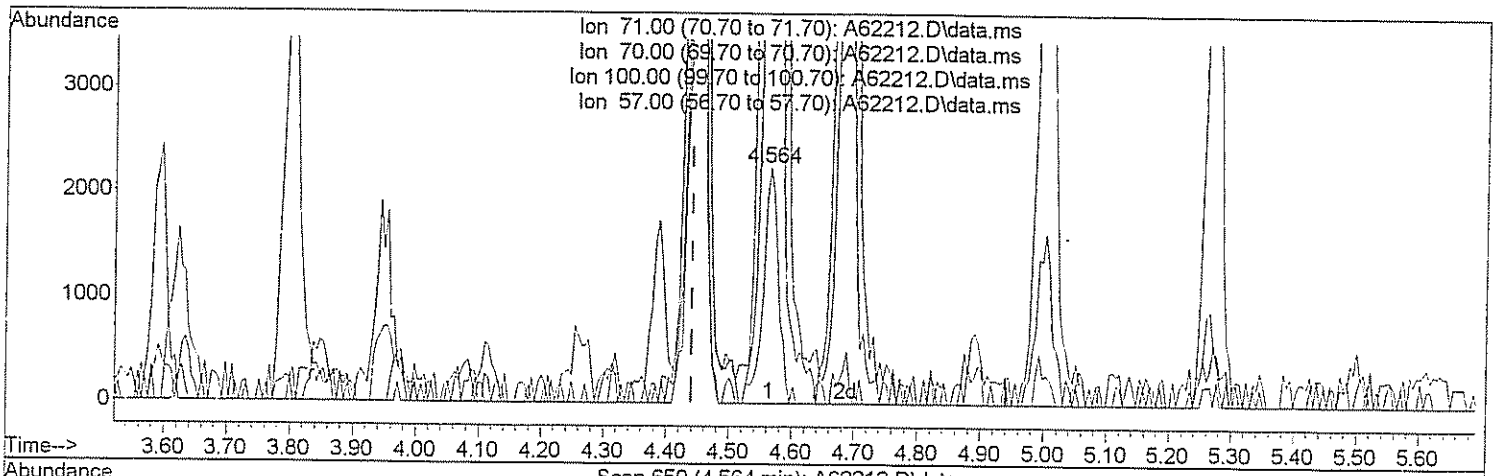
response 10106

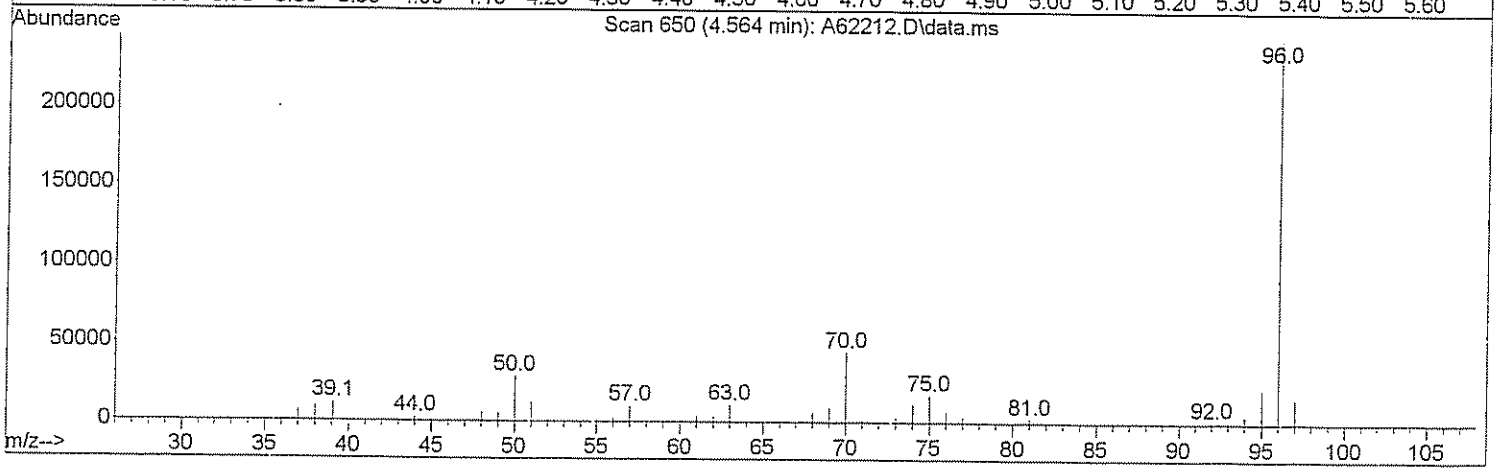
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	99.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration





TIC: A62212.D\data.ms

(26) n-Heptane (T)

4.564min (+0.123) 3.00 ug/L

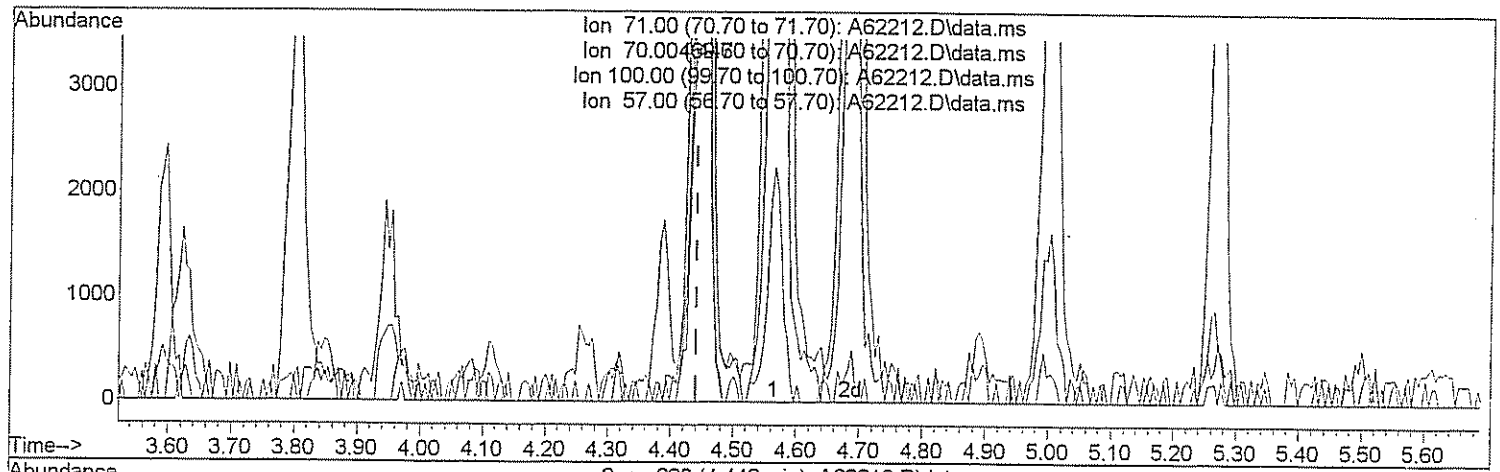
response 3811

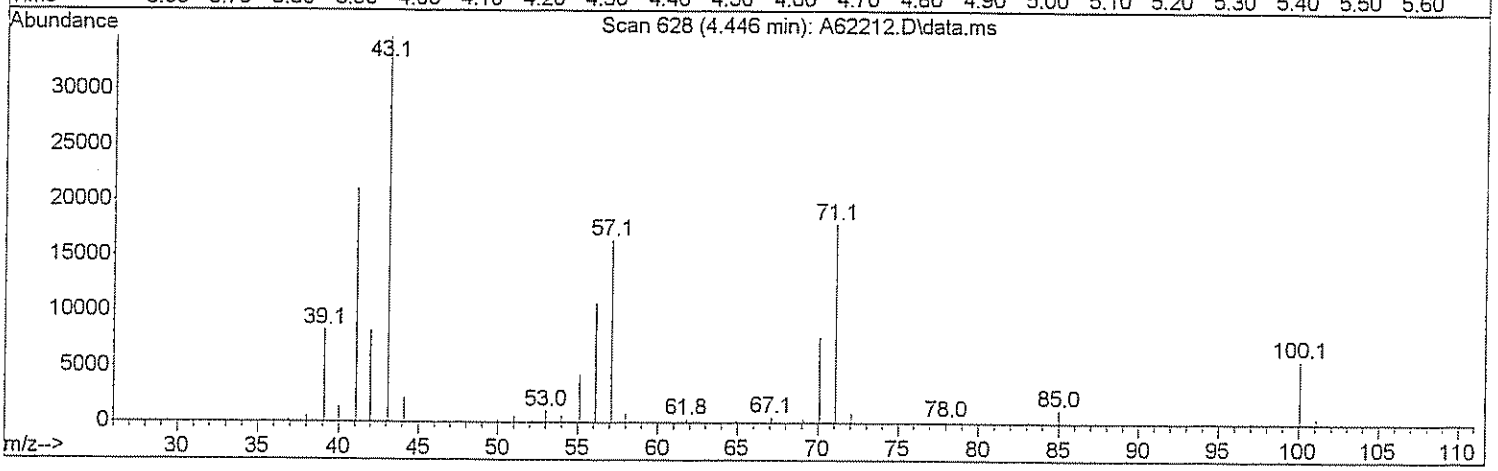
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1904.36#
100.00	60.00	0.00#
57.00	34.00	460.64#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration





TIC: A62212.D\data.ms

(26) n-Heptane (T)

4.446min (+0.005) 23.29 ug/L m DW 3/12/09

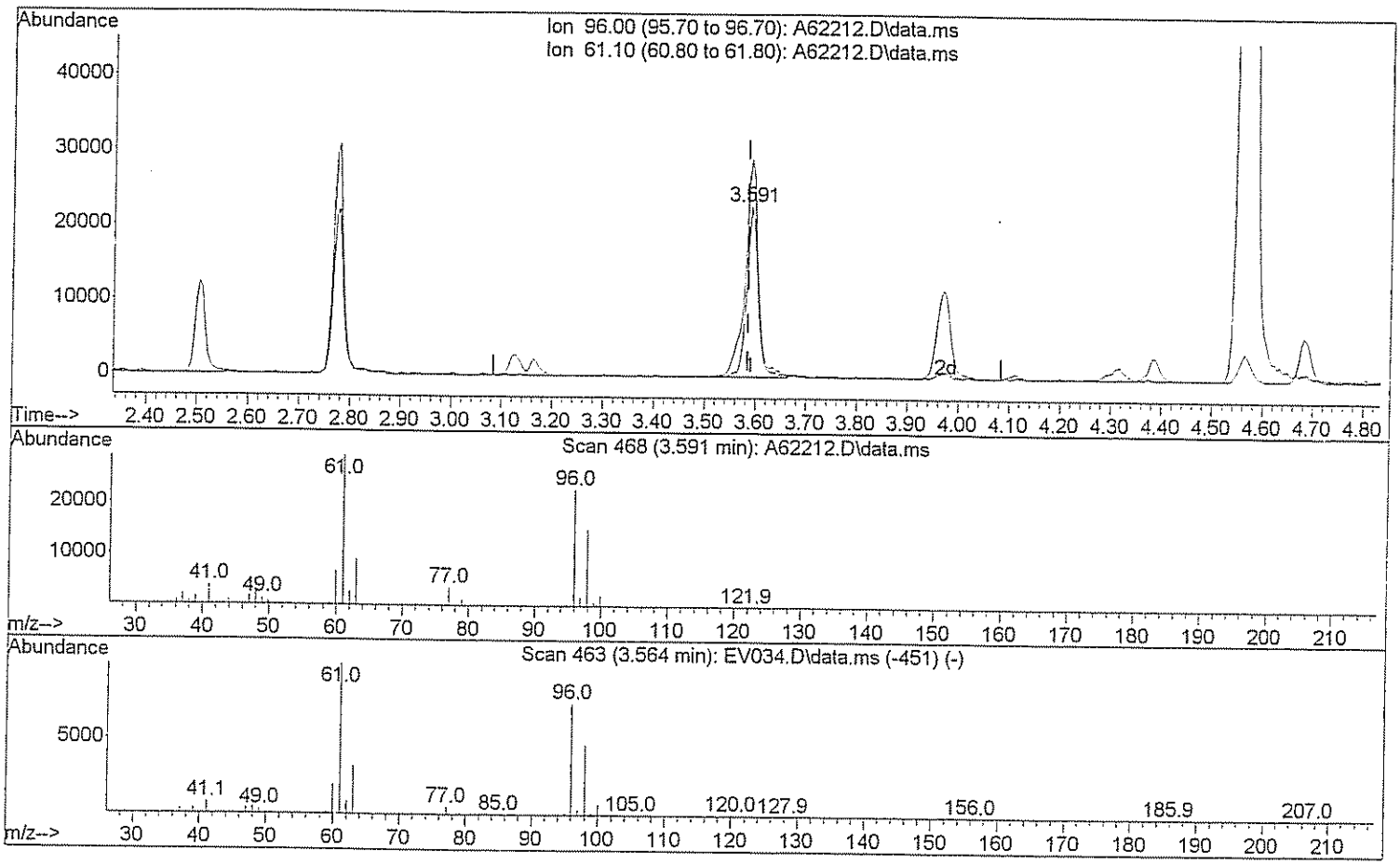
response 29596

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	245.22#
100.00	60.00	0.00#
57.00	34.00	59.32#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (+0.005) 20.03 ug/L

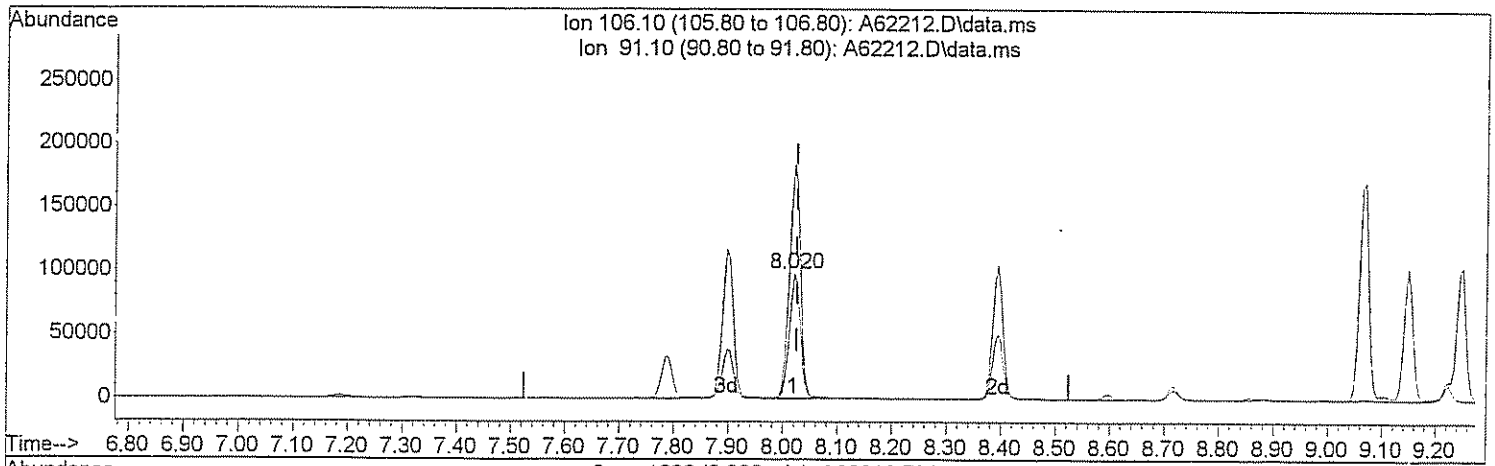
response 36145

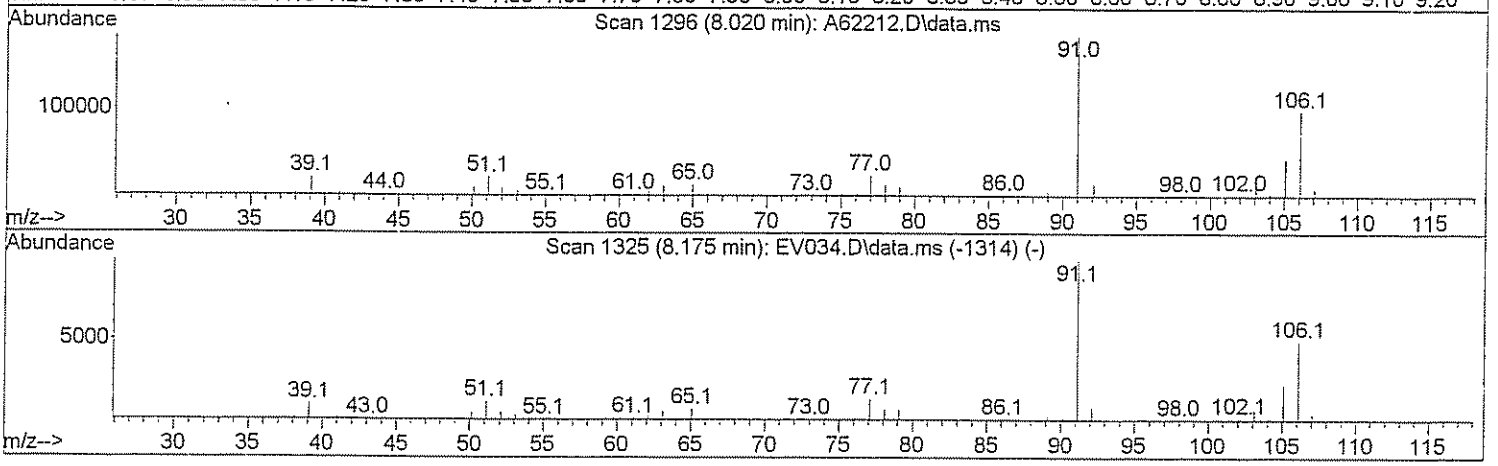
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	147.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration





TIC: A62212.D\data.ms

(71) Xylene (Total)

8.020min (-0.005) 33.94 ug/L

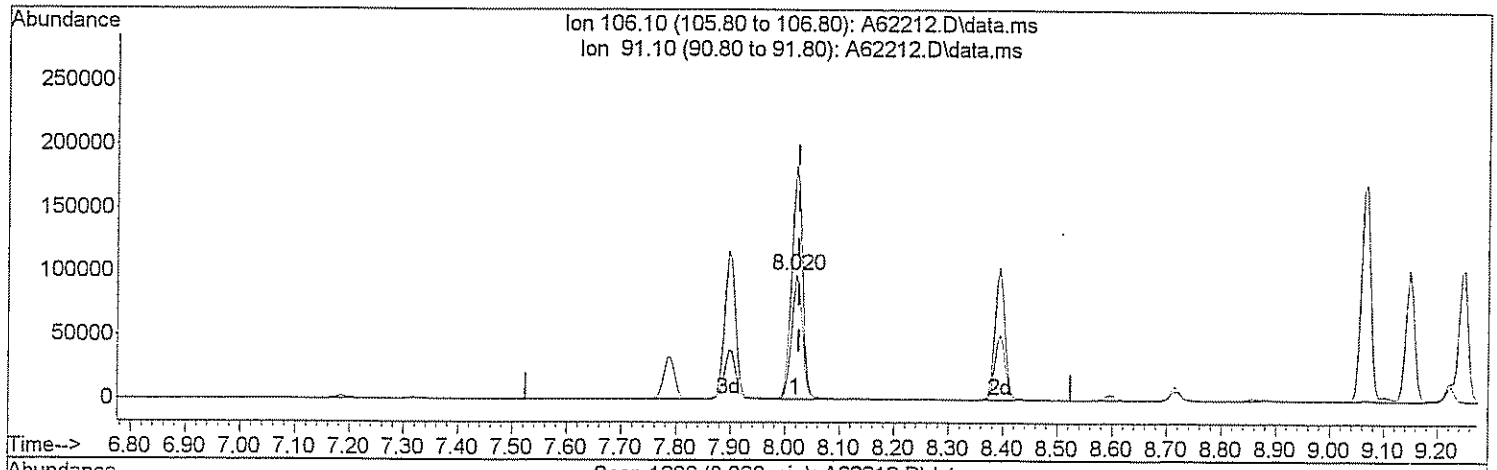
response 134760

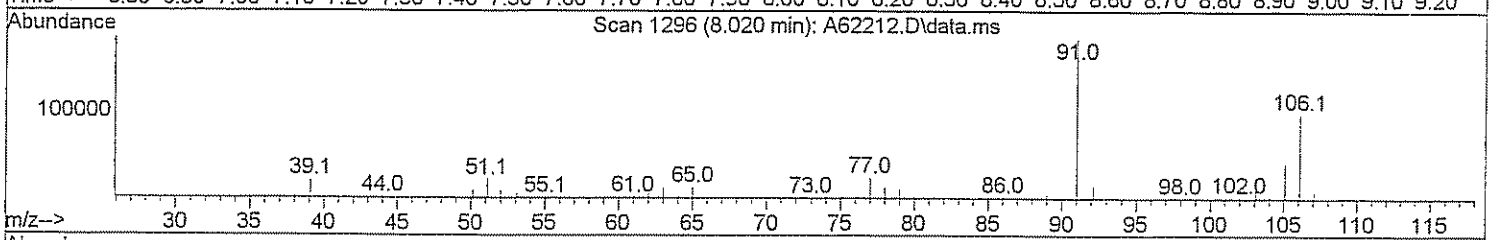
Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.31
0.00	0.00	0.00
0.00	0.00	0.00

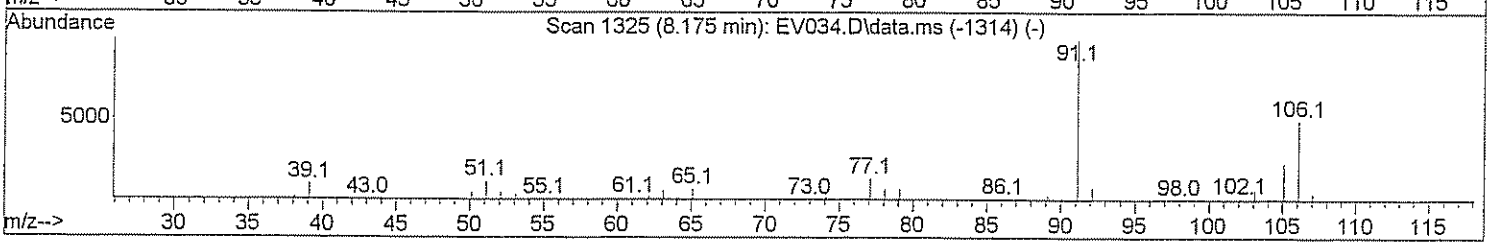
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration







TIC: A62212.D\data.ms

(71) Xylene (Total)

8.020min (-0.005) 51.20 ug/L m DW 3/12/09

response 203312

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	127.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.569	96	491115	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	404603	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.779	117	298407	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	131037	50.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.00%			
53) Toluene-d8	6.148	98	337500	50.00	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.00%			
75) 4-Bromofluorobenzene	8.881	95	149239	50.00	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.00%			
91) 1,2-Dichlorobenzene-d4	10.090	152	162190	50.00	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 100.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.215	85	42446	50.00	ug/L	90
3) Chloromethane	1.349	50	51910	50.00	ug/L	99
4) Vinyl chloride	1.419	62	82006	50.00	ug/L	98
5) Bromomethane	1.654	94	26789	50.00	ug/L	96
6) Chloroethane	1.723	64	57388	50.00	ug/L	96
7) Trichlorofluoromethane	1.868	101	106667	50.00	ug/L	99
8) Ethyl Ether	2.066	59	73001	50.00	ug/L	95
9) Freon 113	2.205	101	63940	50.00	ug/L	88
10) Acrolein	2.216	56	74811	250.00	ug/L #	74
11) Tert-Butyl alcohol	2.681	59	115413	1000.00	ug/L #	47
12) 1,1-Dichloroethene	2.232	96	68693	50.00	ug/L	91
13) Iodomethane	2.360	142	88682	50.00	ug/L	94
14) Acetonitrile	2.504	40	433763	500.00	ug/L #	1
15) Methylene chloride	2.611	84	89374	50.00	ug/L	96
16) Trans-1,2-dichloroethene	2.777	96	81757	50.00	ug/L	87
17) Isopropyl ether	3.109	45	326624	50.00	ug/L	98
18) 1,1-Dichloroethane	3.125	63	153780	50.00	ug/L	97
19) Acetone	2.317	43	55424	100.00	ug/L	97
20) Methyl Acetate	4.265	43	74238	50.00	ug/L #	100
21) MTBE	2.756	73	237035	50.00	ug/L	100
22) Carbon disulfide	2.381	76	230751	50.00	ug/L	100
24) Acrylonitrile	2.852	53	131989	250.00	ug/L	100
25) Chloroprene	3.163	53	132715	50.00	ug/L	92
26) n-Heptane	4.446	71	75854m	50.07	ug/L	
27) 2,2-Dichloropropane	3.564	77	129938	50.00	ug/L #	82
28) Cis-1,2-dichloroethene	3.590	96	101626	50.00	ug/L	98

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	186209m	100.16	ug/L		
30) Propionitrile	3.746	54	130510	500.00	ug/L		98
31) Bromochloromethane	3.799	128	51407	50.00	ug/L		95
32) Tetrahydrofuran	3.804	72	24735	50.00	ug/L	#	1
33) Chloroform	3.853	83	170331	50.00	ug/L		98
34) Cyclohexane	3.949	56	157287	50.00	ug/L		93
35) 1,1,1-Trichloroethane	3.970	97	146924	50.00	ug/L		100
36) Carbon tetrachloride	4.077	117	128169	50.00	ug/L		99
37) Methylcyclohexane	5.003	83	160501	50.00	ug/L		94
38) Isobutyl Alcohol	4.446	43	138617	1000.00	ug/L		88
41) 2-Butanone	3.623	43	112688	100.00	ug/L		96
42) 1,1-Dichloropropene	4.109	75	131647	50.00	ug/L		99
43) Vinyl Acetate	3.152	43	120842	50.00	ug/L		97
44) Benzene	4.297	78	421750	50.00	ug/L		100
45) 1,2-Dichloroethane	4.388	62	136806	50.00	ug/L	#	84
46) Trichloroethene	4.896	95	107324	50.00	ug/L		90
47) 1,2-Dichloropropane	5.169	63	117779	50.00	ug/L		96
48) Methyl methacrylate	5.265	69	80158	50.00	ug/L		98
49) Dibromomethane	5.286	93	71099	50.00	ug/L		99
50) Bromodichloromethane	5.436	83	150108	50.00	ug/L		100
51) 2-Chloroethylvinyl ether	5.784	63	304642	200.00	ug/L		97
52) Cis-1,3-dichloropropene	5.918	75	184772	50.00	ug/L		100
54) Toluene	6.223	92	205842	50.00	ug/L		98
55) Trans-1,3-dichloropropene	6.576	75	125355	50.00	ug/L		98
56) Ethyl methacrylate	6.624	69	111732	50.00	ug/L		93
57) 1,1,2-Trichloroethane	6.779	83	65466	50.00	ug/L		98
59) 4-Methyl-2-pentanone	6.099	43	194154	100.00	ug/L		95
60) 2-Hexanone	7.068	43	139217	100.00	ug/L		97
61) Tetrachloroethene	6.795	166	83952	50.00	ug/L		94
62) 1,3-Dichloropropane	6.977	76	127175	50.00	ug/L		94
63) Dibromochloromethane	7.185	129	90502	50.00	ug/L		100
64) 1,2-Dibromoethane	7.319	107	81199	50.00	ug/L		99
65) 1-Chlorohexane	7.790	91	118247	50.00	ug/L		94
66) Chlorobenzene	7.811	112	258233	50.00	ug/L		90
67) 1,1,1,2-Tetrachloroethane	7.908	131	98535	50.00	ug/L		97
68) Ethylbenzene	7.902	91	429864	50.00	ug/L		99
69) m,p-Xylene	8.020	106	354164	100.00	ug/L		91
70) o-Xylene	8.395	106	181276	50.00	ug/L		91
71) Xylene (Total)	8.020	106	537873m	150.14	ug/L		
72) Styrene	8.421	104	302804	50.00	ug/L		97
73) Bromoform	8.598	173	63027	50.00	ug/L		99
74) Isopropylbenzene	8.715	105	394343	50.00	ug/L		99

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

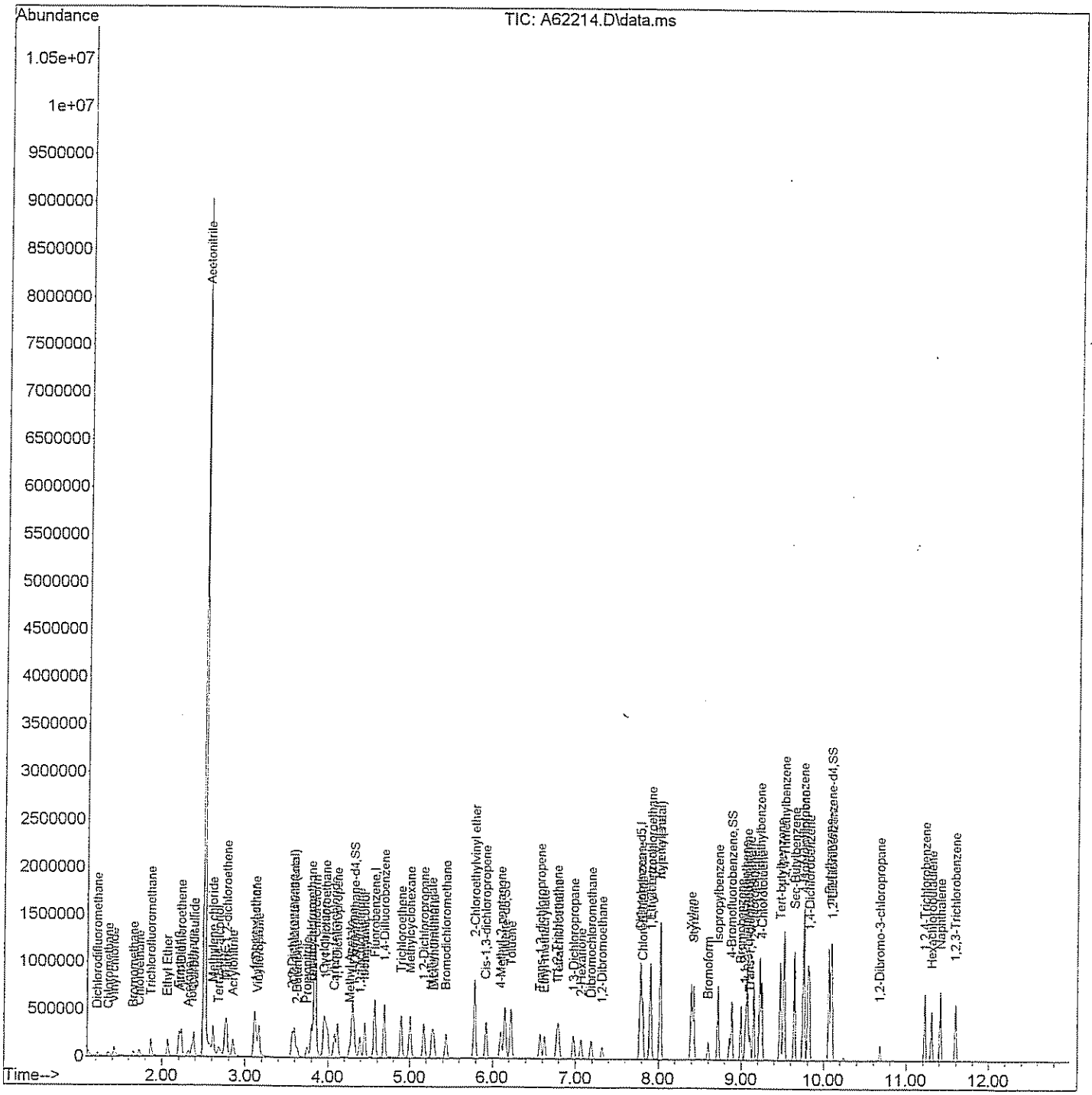
Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) Bromobenzene	8.994	156	111914	50.00	ug/L		97
77) 1,1,2,2-Tetrachloroethane	9.047	83	116503	50.00	ug/L		97
78) 1,2,3-Trichloropropane	9.085	110	33906	50.00	ug/L		94
79) n-Propylbenzene	9.069	91	547566	50.00	ug/L		98
80) Trans-1,4-dichloro-2-b...	9.106	53	34644	50.00	ug/L	#	23
81) 2-Chlorotoluene	9.149	126	119201	50.00	ug/L		87
82) 4-Chlorotoluene	9.250	126	123631	50.00	ug/L		91
83) 1,3,5-Trimethylbenzene	9.224	105	416986	50.00	ug/L		96
84) Tert-butylbenzene	9.470	119	368649	50.00	ug/L		95
86) 1,2,4-Trimethylbenzene	9.518	105	431077	50.00	ug/L		93
87) Sec-Butylbenzene	9.641	105	570872	50.00	ug/L		99
88) 1,3-Dichlorobenzene	9.748	146	243598	50.00	ug/L		100
89) 4-Isopropyltoluene	9.759	119	496608	50.00	ug/L		97
90) 1,4-Dichlorobenzene	9.823	146	248499	50.00	ug/L		98
92) 1,2-Dichlorobenzene	10.101	146	235473	50.00	ug/L		97
93) n-Butylbenzene	10.058	91	460347	50.00	ug/L		95
94) 1,2-Dibromo-3-chloropr...	10.679	75	23650	50.00	ug/L	#	78
95) 1,2,4-Trichlorobenzene	11.225	180	155200	50.00	ug/L		98
96) Hexachlorobutadiene	11.305	225	61951	50.00	ug/L		100
97) Naphthalene	11.412	128	427662	50.00	ug/L		100
98) 1,2,3-Trichlorobenzene	11.594	180	139897	50.00	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

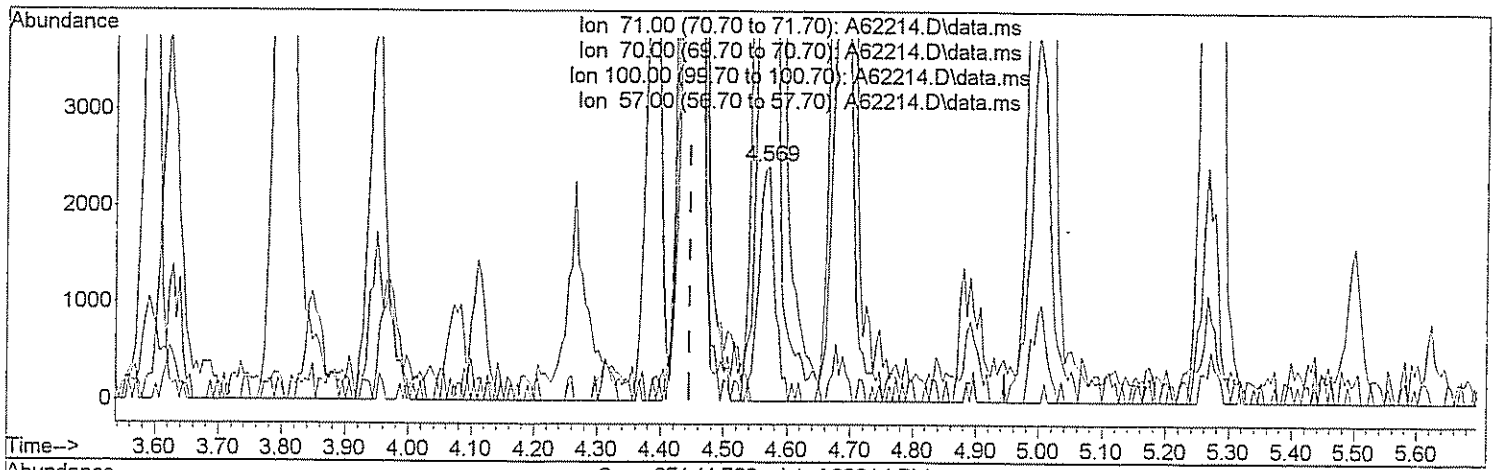
Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

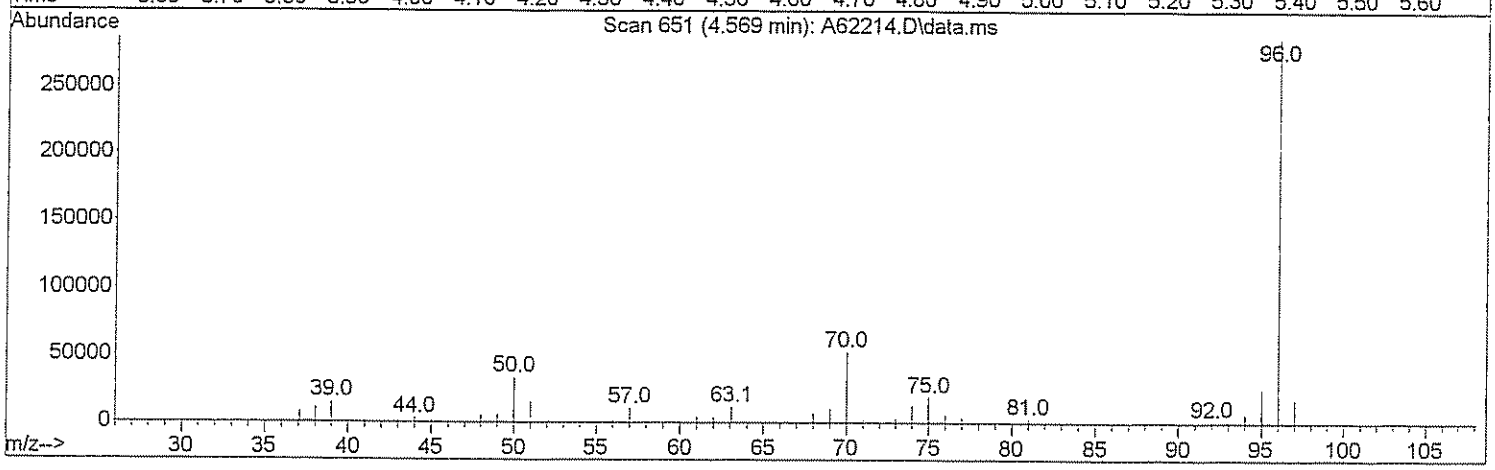


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration





TIC: A62214.D\data.ms

(26) n-Heptane (T)

4.569min (+0.123) 2.74 ug/L

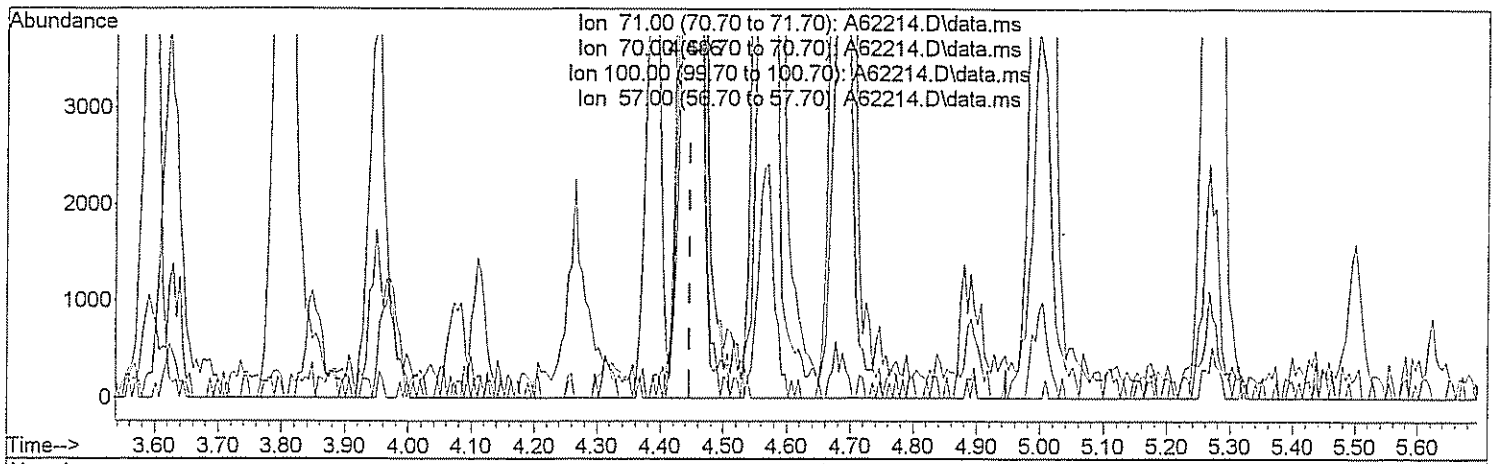
response 4156

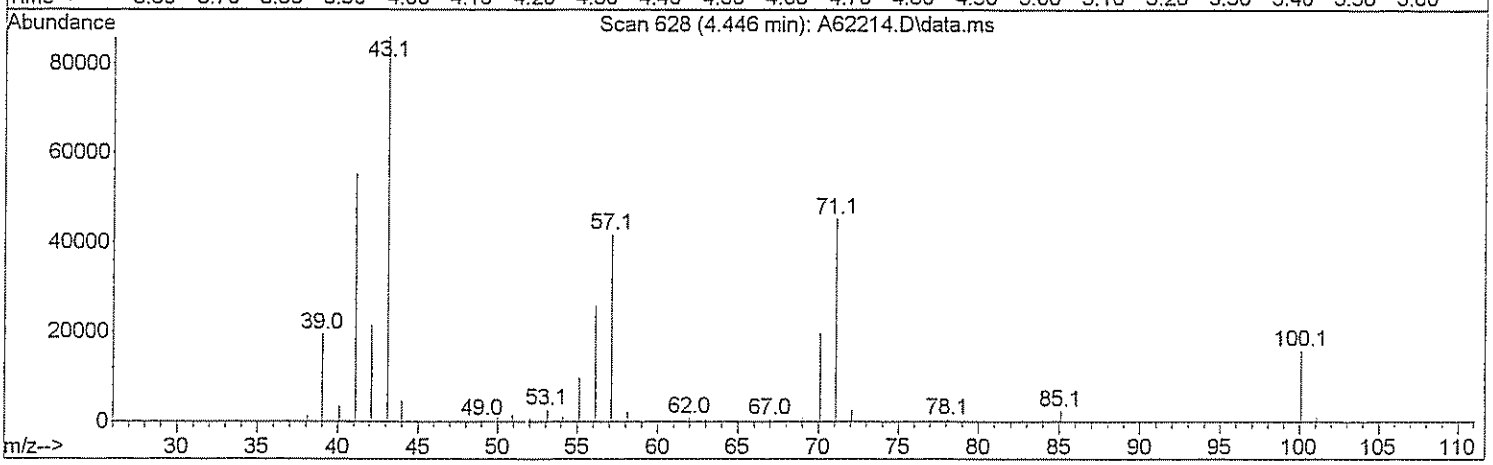
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2111.07#
100.00	60.00	0.00#
57.00	34.00	454.33#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration





TIC: A62214.D\data.ms

(26) n-Heptane (T)

4.446min (0.000) 50.07 ug/L m SM 3/12/09

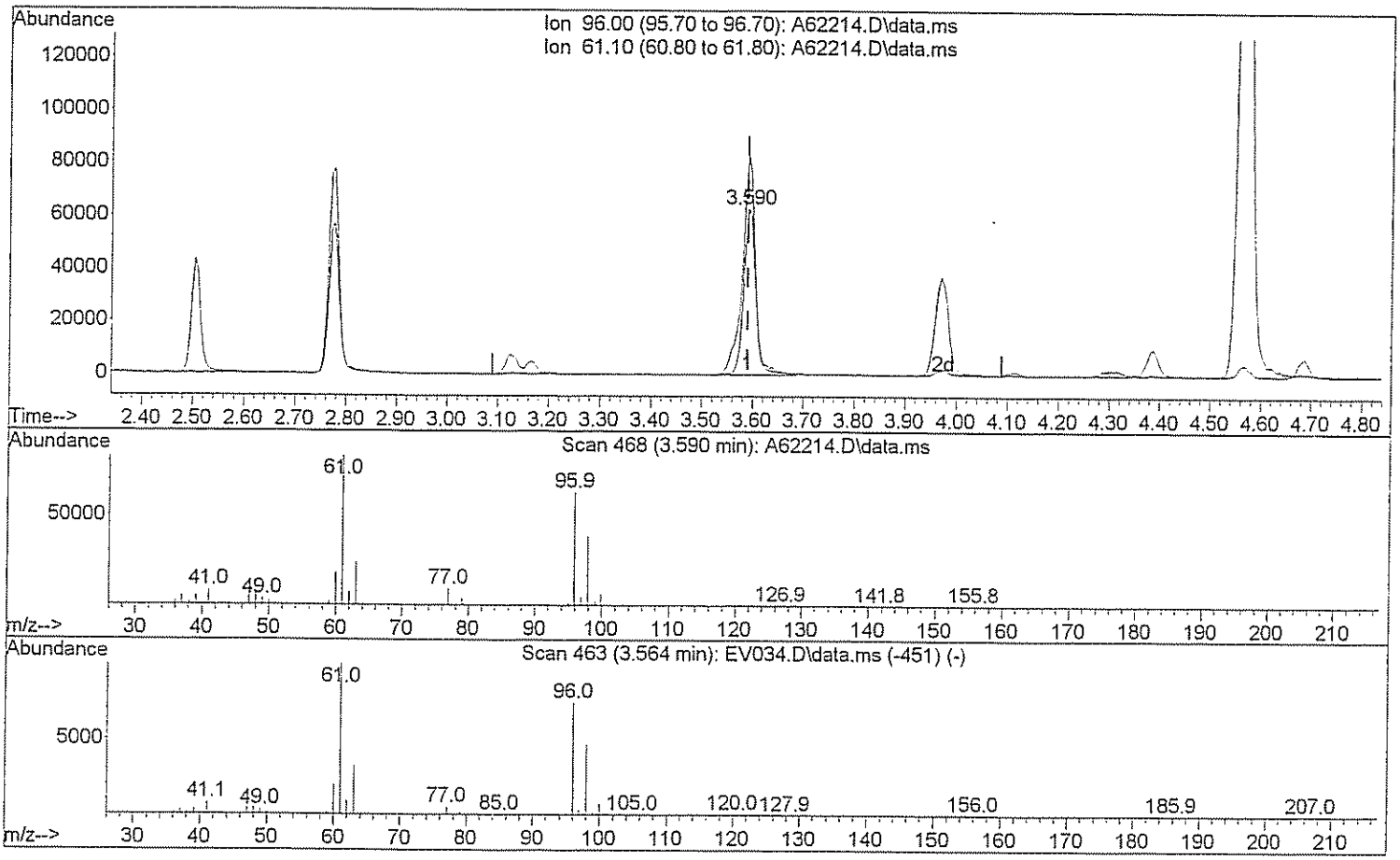
response 75854

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	115.66#
100.00	60.00	0.00#
57.00	34.00	24.89#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (0.000) 54.67 ug/L

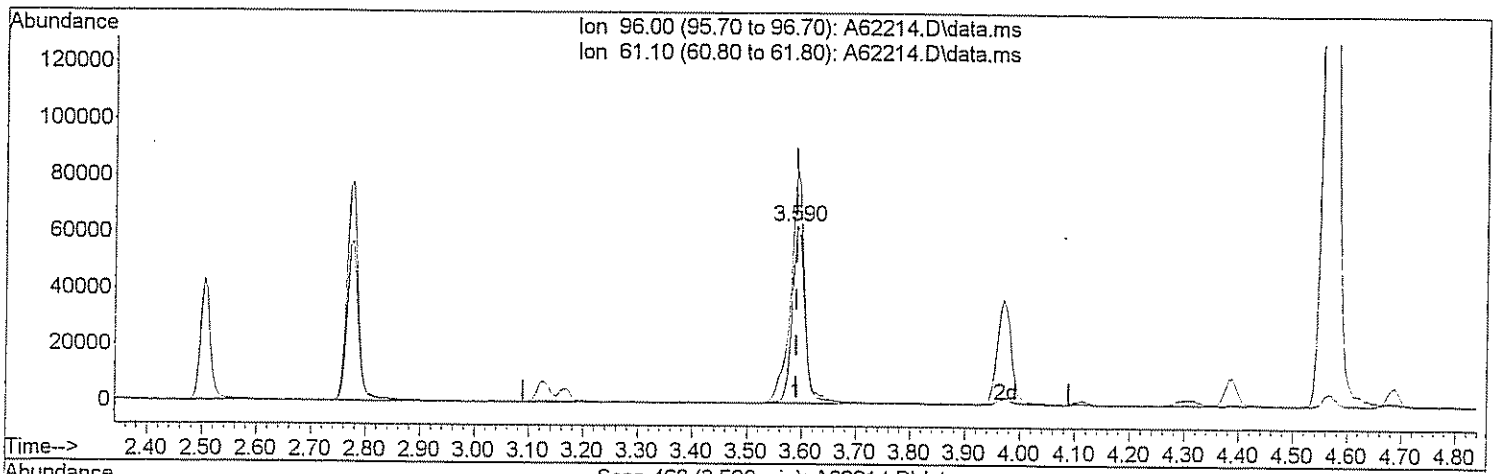
response 101626

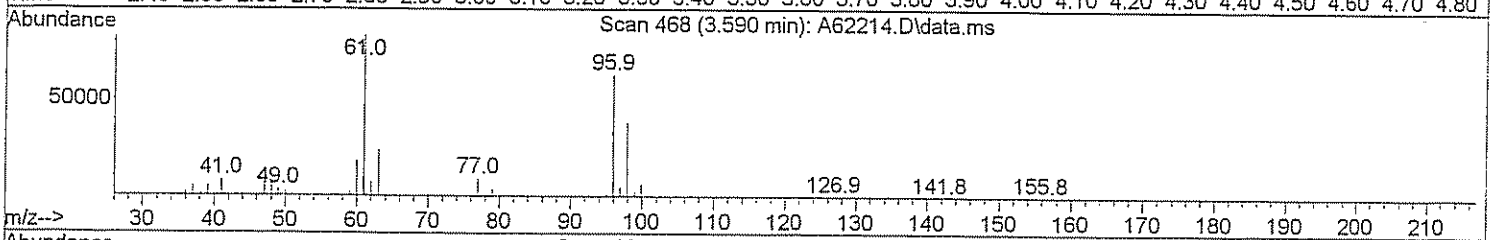
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	146.03
0.00	0.00	0.00
0.00	0.00	0.00

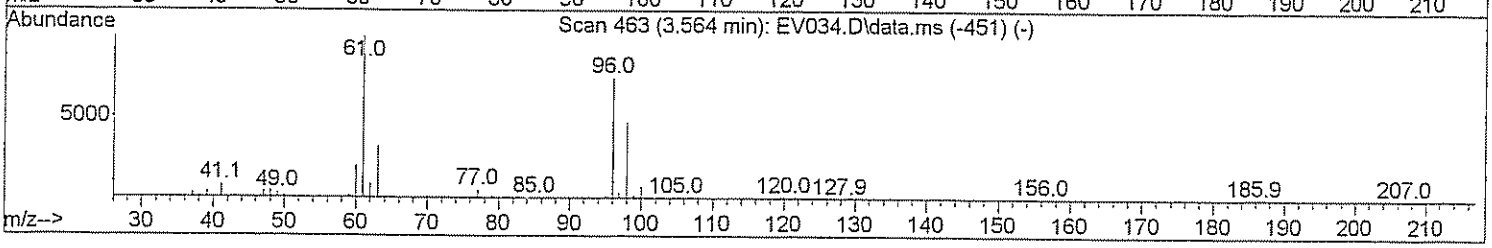
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration







TIC: A62214.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (0.000) 100.16 ug/L m DW 3/12/09

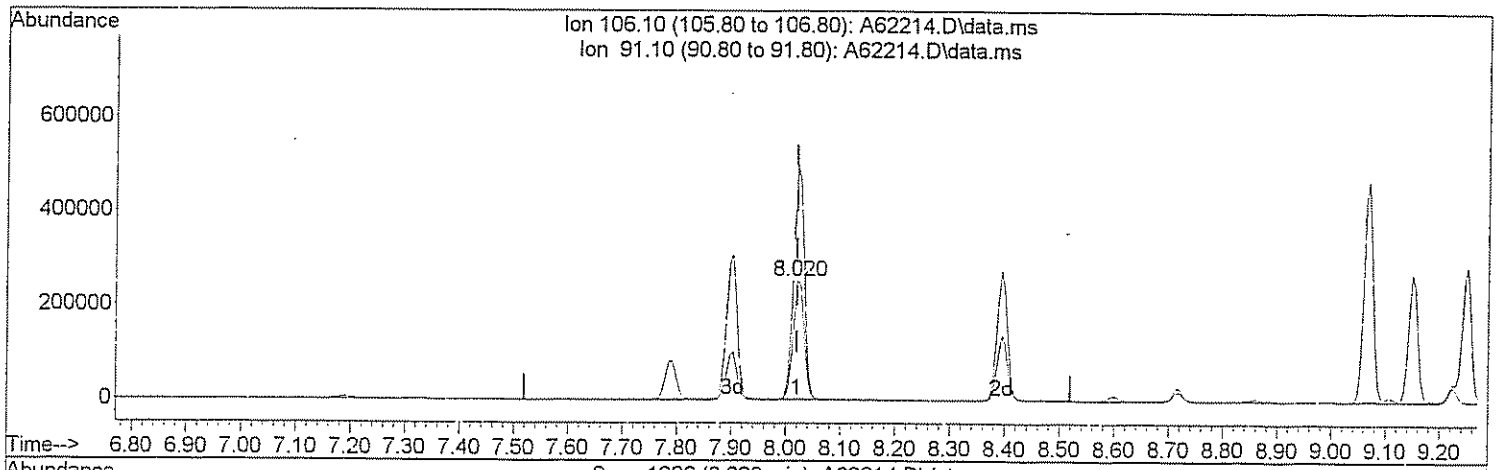
response 186209

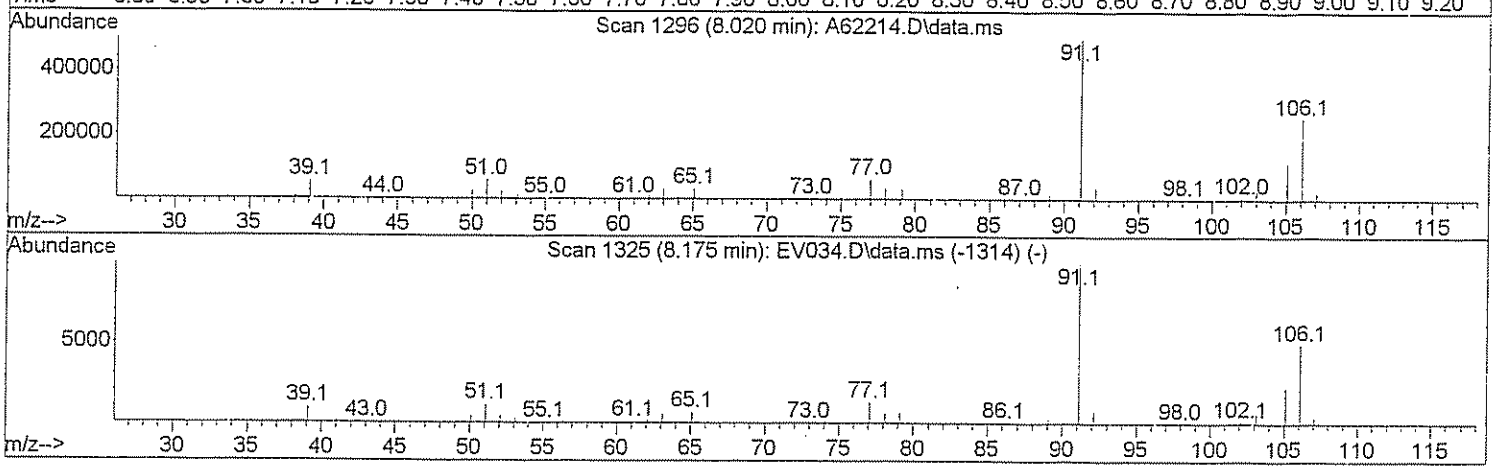
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	79.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration





TIC: A62214.D\data.ms

(71) Xylene (Total)

8.020min (0.000) 98.86 ug/L

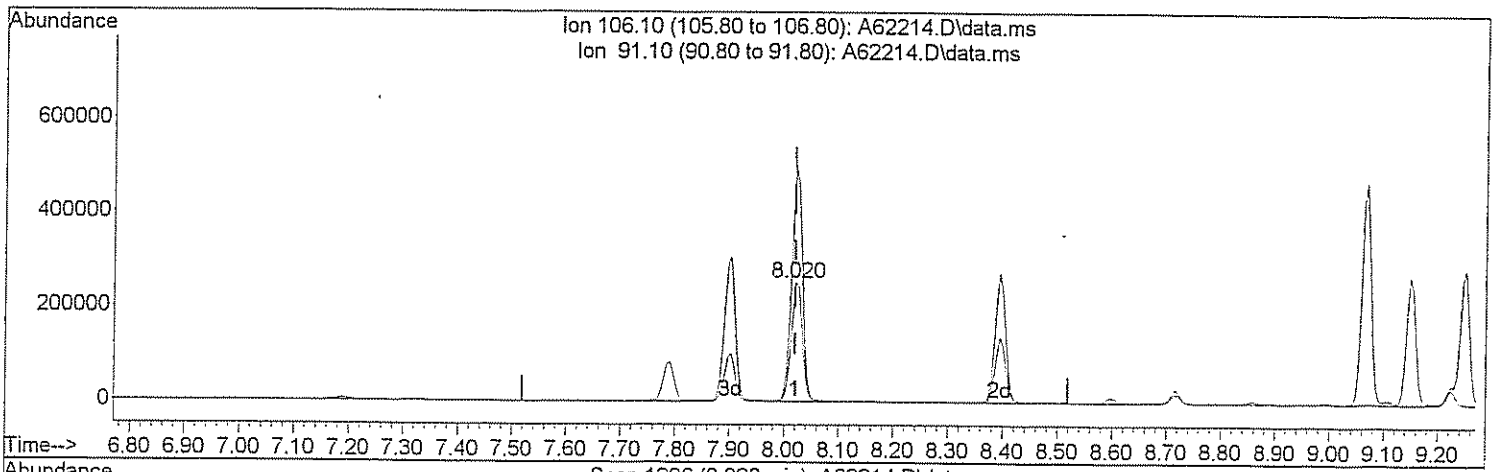
response 354164

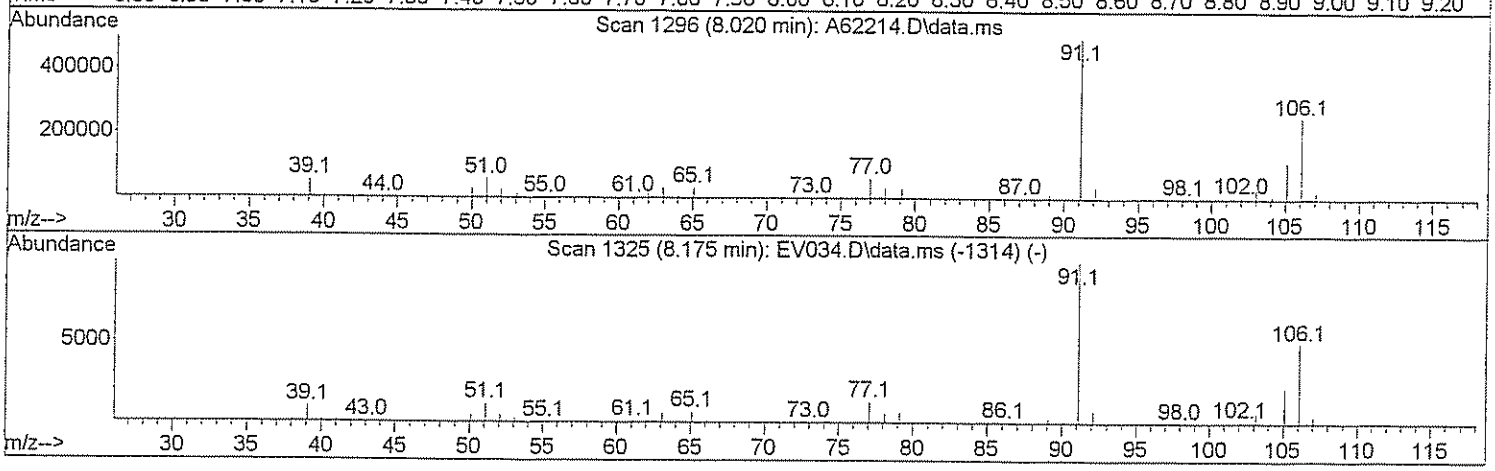
Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration





TIC: A62214.D\data.ms

(71) Xylene (Total)

8.020min (0.000) 150.14 ug/L m 3/12/09

response 537873

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.52#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.569	96	415756	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	337372	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.785	117	329990	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	112733	50.81	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.62%			
53) Toluene-d8	6.148	98	383573	68.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 136.30%#			
75) 4-Bromofluorobenzene	8.881	95	162049	49.10	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.20%			
91) 1,2-Dichlorobenzene-d4	10.090	152	175535m	48.93	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 97.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.215	85	98397	136.92	ug/L	99
3) Chloromethane	1.354	50	168963	192.25	ug/L	95
4) Vinyl chloride	1.424	62	186395	134.25	ug/L	98
5) Bromomethane	1.654	94	66771	147.21	ug/L	96
6) Chloroethane	1.723	64	118748	122.21	ug/L	96
7) Trichlorofluoromethane	1.868	101	245893	136.15	ug/L	98
8) Ethyl Ether	2.071	59	158910	128.57	ug/L	95
9) Freon 113	2.205	101	154492	142.71	ug/L	87
10) Acrolein	2.216	56	159736	630.55	ug/L #	74
11) Tert-Butyl alcohol	2.686	59	256748	2627.83	ug/L #	47
12) 1,1-Dichloroethene	2.232	96	157280	135.23	ug/L	87
13) Iodomethane	2.360	142	213620	142.27	ug/L	97
14) Acetonitrile	2.504	40	1109944	1511.34	ug/L #	1
15) Methylene chloride	2.617	84	187413	123.85	ug/L	100
16) Trans-1,2-dichloroethene	2.777	96	180726	130.56	ug/L	87
17) Isopropyl ether	3.109	45	703030	127.13	ug/L	100
18) 1,1-Dichloroethane	3.130	63	334041	128.30	ug/L	99
19) Acetone	2.317	43	112444	239.65	ug/L	94
20) Methyl Acetate	4.265	43	131159	104.35	ug/L #	100
21) MTBE	2.761	73	521000	129.82	ug/L	100
22) Carbon disulfide	2.381	76	508164	130.07	ug/L	100
24) Acrylonitrile	2.852	53	278307	622.69	ug/L	99
25) Chloroprene	3.168	53	309351	137.67	ug/L	92
26) n-Heptane	4.446	71	135580m	105.57	ug/L	
27) 2,2-Dichloropropane	3.569	77	269285	122.40	ug/L #	79
28) Cis-1,2-dichloroethene	3.596	96	206197	119.84	ug/L	96

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.596	96	391183m	248.16 ug/L	
30) Propionitrile	3.746	54	249360	1128.49 ug/L	100
31) Bromochloromethane	3.799	128	99463	114.28 ug/L	94
32) Tetrahydrofuran	3.799	72	46868	111.91 ug/L #	22
33) Chloroform	3.853	83	347573	120.52 ug/L	99
34) Cyclohexane	3.949	56	309662	116.28 ug/L	92
35) 1,1,1-Trichloroethane	3.970	97	273760	110.05 ug/L	98
36) Carbon tetrachloride	4.077	117	242295	111.65 ug/L	99
37) Methylcyclohexane	5.003	83	301589	110.98 ug/L	93
38) Isobutyl Alcohol	4.446	43	257322	2192.83 ug/L	88
41) 2-Butanone	3.623	43	223008	237.34 ug/L	97
42) 1,1-Dichloropropene	4.115	75	237178	108.03 ug/L	98
43) Vinyl Acetate	3.152	43	286529	142.18 ug/L	100
44) Benzene	4.297	78	731696	104.03 ug/L	100
45) 1,2-Dichloroethane	4.388	62	242233m	106.17 ug/L	
46) Trichloroethene	4.896	95	181261	101.27 ug/L	91
47) 1,2-Dichloropropane	5.169	63	196751	100.17 ug/L	95
48) Methyl methacrylate	5.270	69	132717	99.28 ug/L	97
49) Dibromomethane	5.286	93	121747	102.68 ug/L	97
50) Bromodichloromethane	5.436	83	252862	101.01 ug/L	100
51) 2-Chloroethylvinyl ether	5.784	63	534231	420.62 ug/L	98
52) Cis-1,3-dichloropropene	5.923	75	312652	101.46 ug/L	99
54) Toluene	6.223	92	464184	135.22 ug/L	96
55) Trans-1,3-dichloropropene	6.576	75	277112	132.56 ug/L	97
56) Ethyl methacrylate	6.629	69	243555	130.71 ug/L	94
57) 1,1,2-Trichloroethane	6.779	83	144844	132.67 ug/L	97
59) 4-Methyl-2-pentanone	6.099	43	441634	205.70 ug/L	97
60) 2-Hexanone	7.068	43	298027	193.58 ug/L	98
61) Tetrachloroethene	6.800	166	194634	104.83 ug/L	95
62) 1,3-Dichloropropane	6.977	76	280682	99.79 ug/L	93
63) Dibromochloromethane	7.185	129	207903	103.87 ug/L	100
64) 1,2-Dibromoethane	7.319	107	176918	98.51 ug/L	97
65) 1-Chlorohexane	7.790	91	263708	100.84 ug/L	92
66) Chlorobenzene	7.811	112	588501	103.04 ug/L	88
67) 1,1,1,2-Tetrachloroethane	7.913	131	227952	104.60 ug/L	98
68) Ethylbenzene	7.902	91	968275	101.85 ug/L	98
69) m,p-Xylene	8.025	106	805262	205.61 ug/L	90
70) o-Xylene	8.395	106	411204	102.56 ug/L	91
71) Xylene (Total)	8.025	106	1215901m	306.63 ug/L	
72) Styrene	8.427	104	675495	100.86 ug/L	95
73) Bromoform	8.598	173	144392	103.58 ug/L	100
74) Isopropylbenzene	8.715	105	905859	103.86 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration

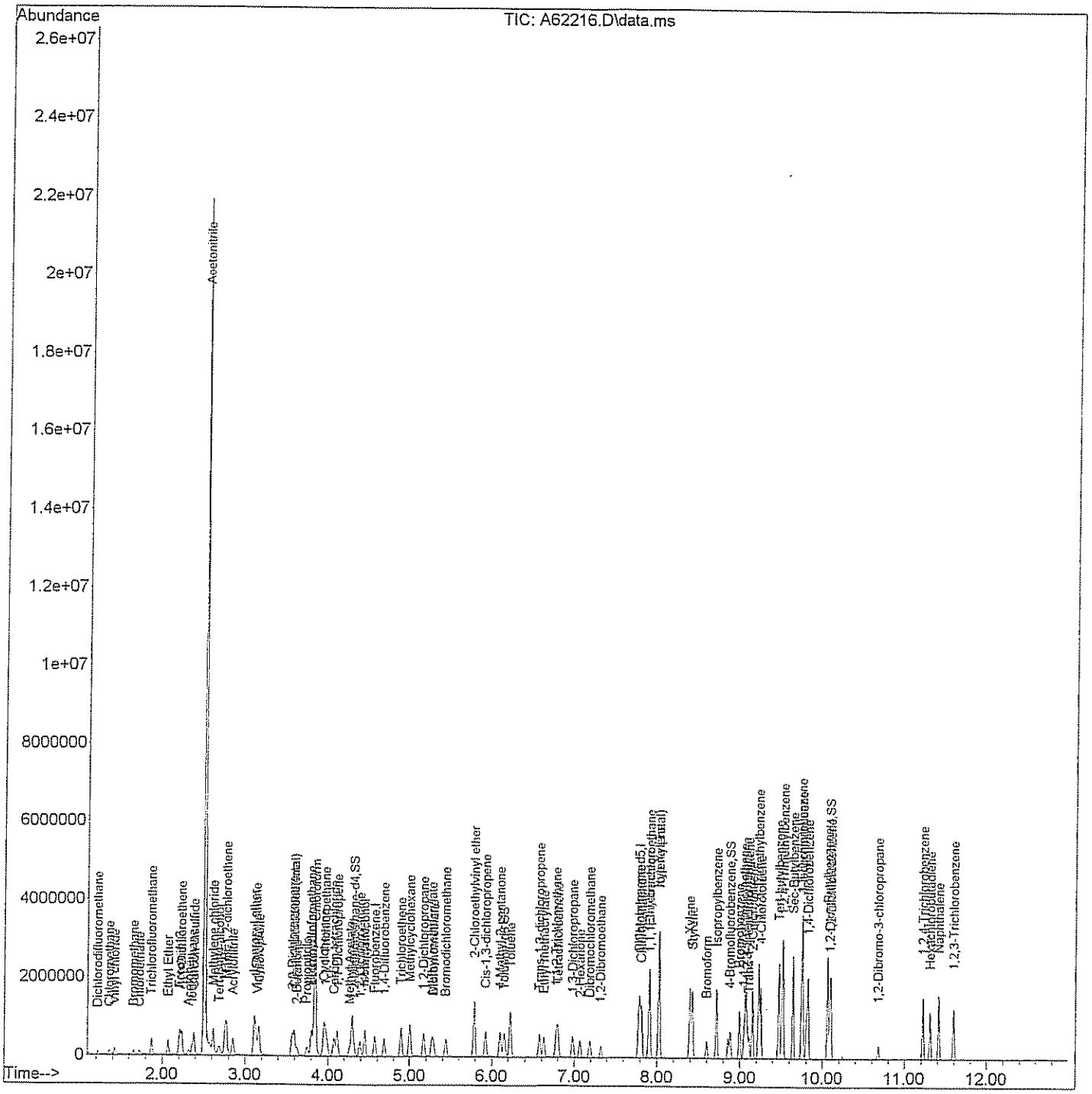
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	242975	98.16 ug/L	100
77) 1,1,2,2-Tetrachloroethane	9.047	83	257769	100.04 ug/L	100
78) 1,2,3-Trichloropropane	9.085	110	74956	99.96 ug/L	98
79) n-Propylbenzene	9.069	91	1194175	98.61 ug/L	98
80) Trans-1,4-dichloro-2-b...	9.106	53	78805	102.85 ug/L #	23
81) 2-Chlorotoluene	9.154	126	256406	97.26 ug/L	88
82) 4-Chlorotoluene	9.250	126	266863	97.60 ug/L	93
83) 1,3,5-Trimethylbenzene	9.224	105	929473	100.78 ug/L	95
84) Tert-butylbenzene	9.470	119	833782	102.26 ug/L	97
86) 1,2,4-Trimethylbenzene	9.523	105	956129	100.29 ug/L	94
87) Sec-Butylbenzene	9.641	105	1261883	99.94 ug/L	99
88) 1,3-Dichlorobenzene	9.748	146	537347	99.74 ug/L	99
89) 4-Isopropyltoluene	9.759	119	1120260	102.00 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	542741	98.75 ug/L	98
92) 1,2-Dichlorobenzene	10.101	146	516944	99.26 ug/L	99
93) n-Butylbenzene	10.064	91	1022373	100.42 ug/L	95
94) 1,2-Dibromo-3-chloropr...	10.679	75	51163	97.81 ug/L	81
95) 1,2,4-Trichlorobenzene	11.225	180	335916	97.86 ug/L	100
96) Hexachlorobutadiene	11.305	225	145565	106.24 ug/L	100
97) Naphthalene	11.412	128	933278	98.67 ug/L	100
98) 1,2,3-Trichlorobenzene	11.599	180	299645	96.84 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

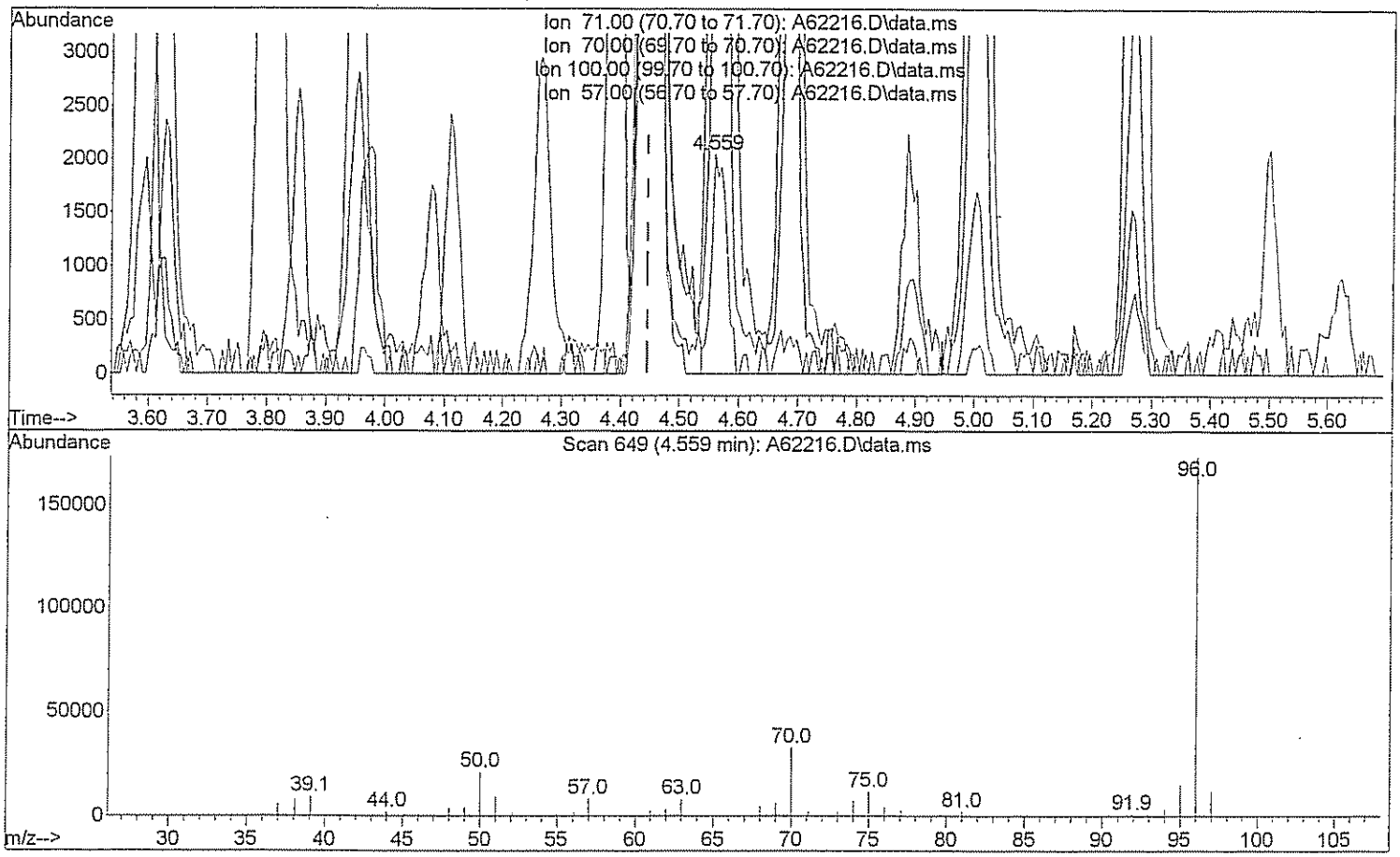
Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(26) n-Heptane (T)

4.559min (+0.112) 2.83 ug/L

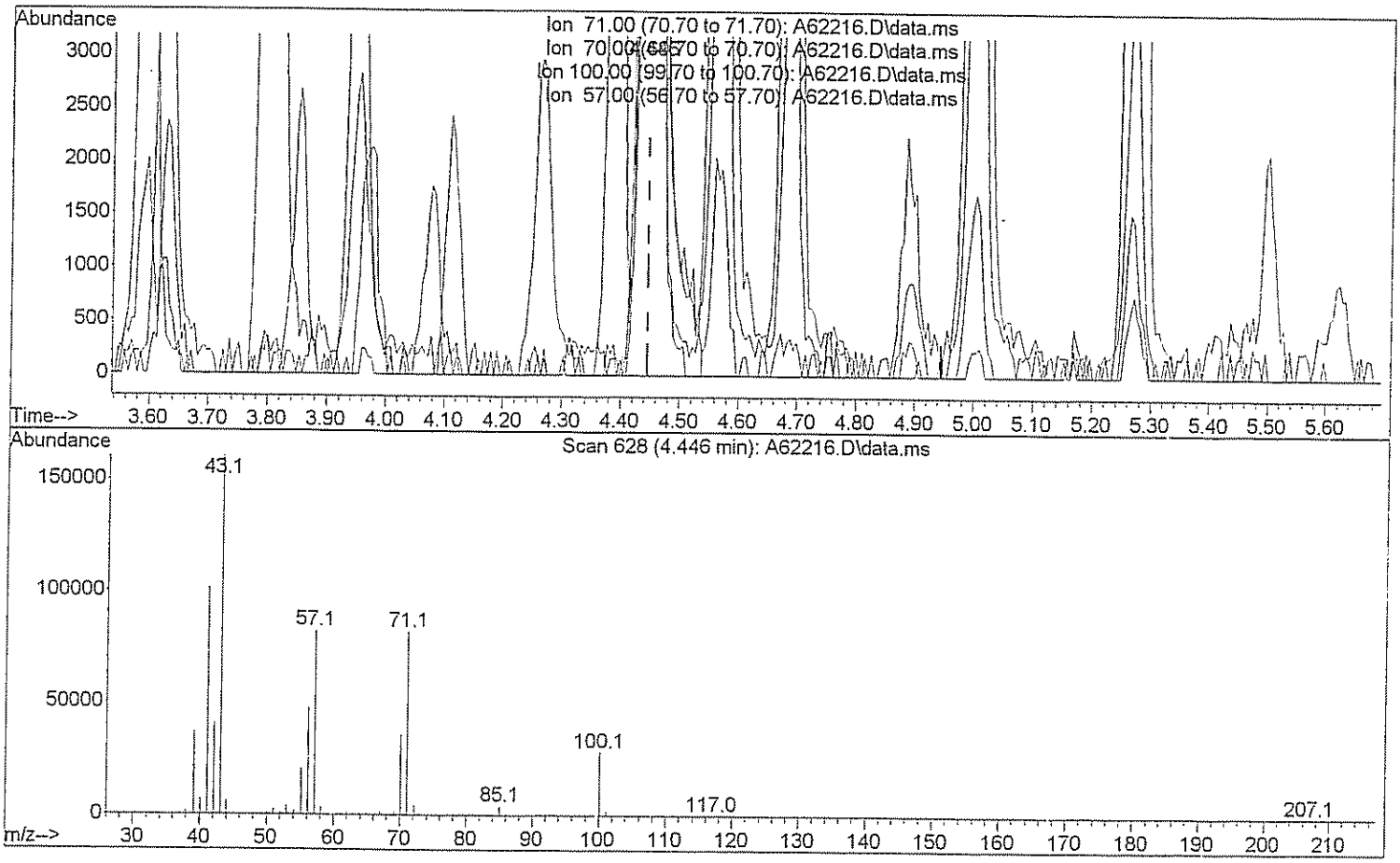
response 3635

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2001.02#
100.00	60.00	0.00#
57.00	34.00	450.07#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(26) n-Heptane (T)

4.446min (-0.000) 105.57 ug/L m Dm 3/12/09

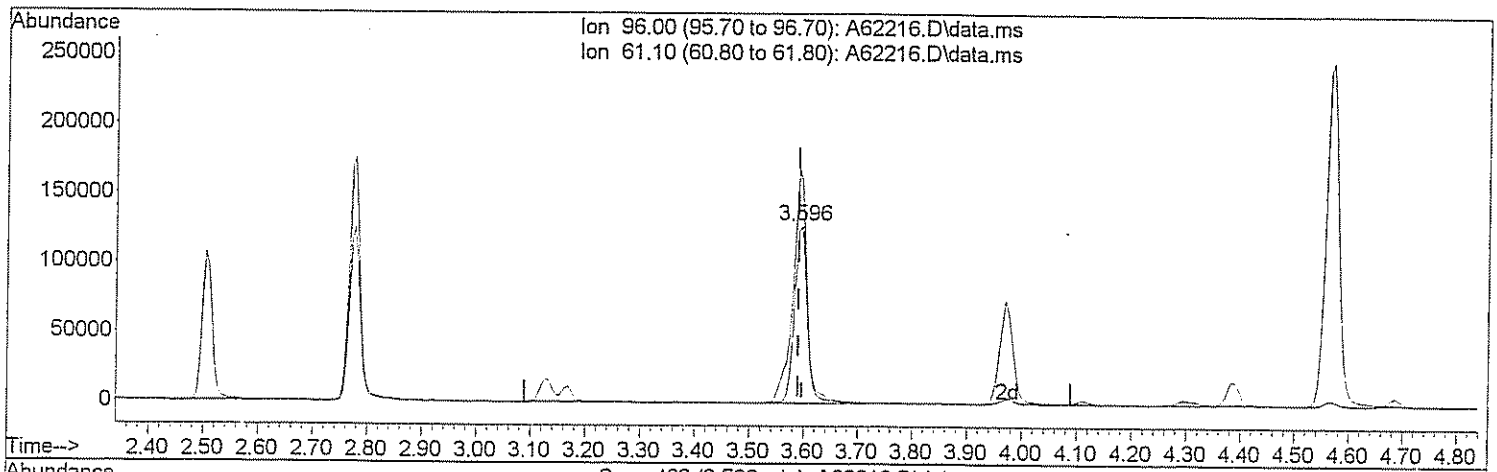
response 135580

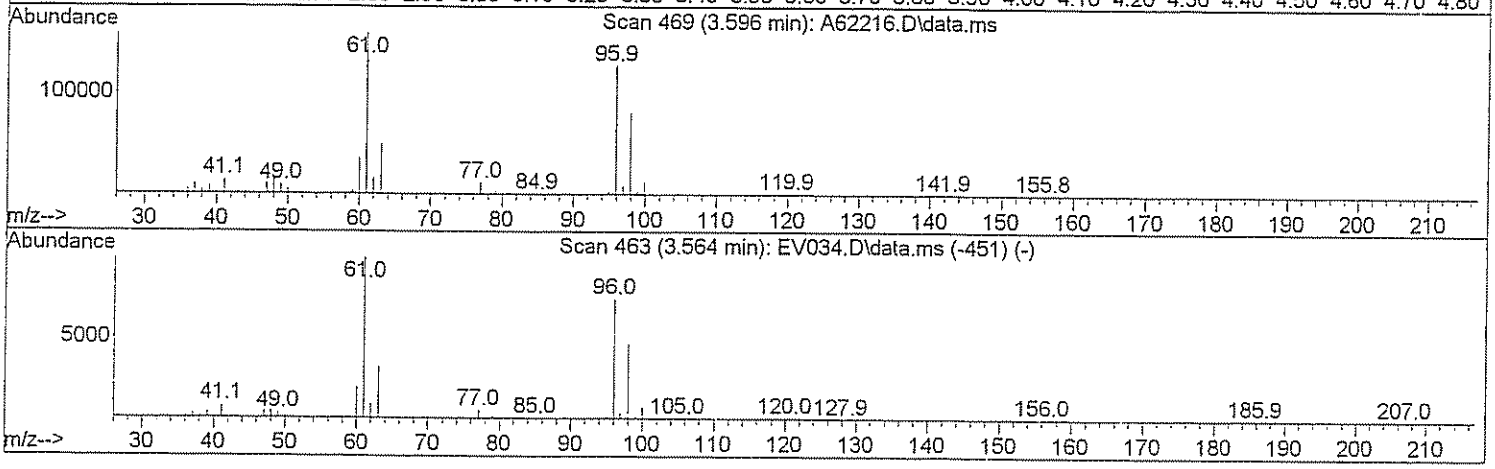
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	53.65#
100.00	60.00	0.00#
57.00	34.00	12.07#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration





TIC: A62216.D\data.ms

(29) 1,2-dichloroethene(total)

3.596min (+0.005) 130.81 ug/L

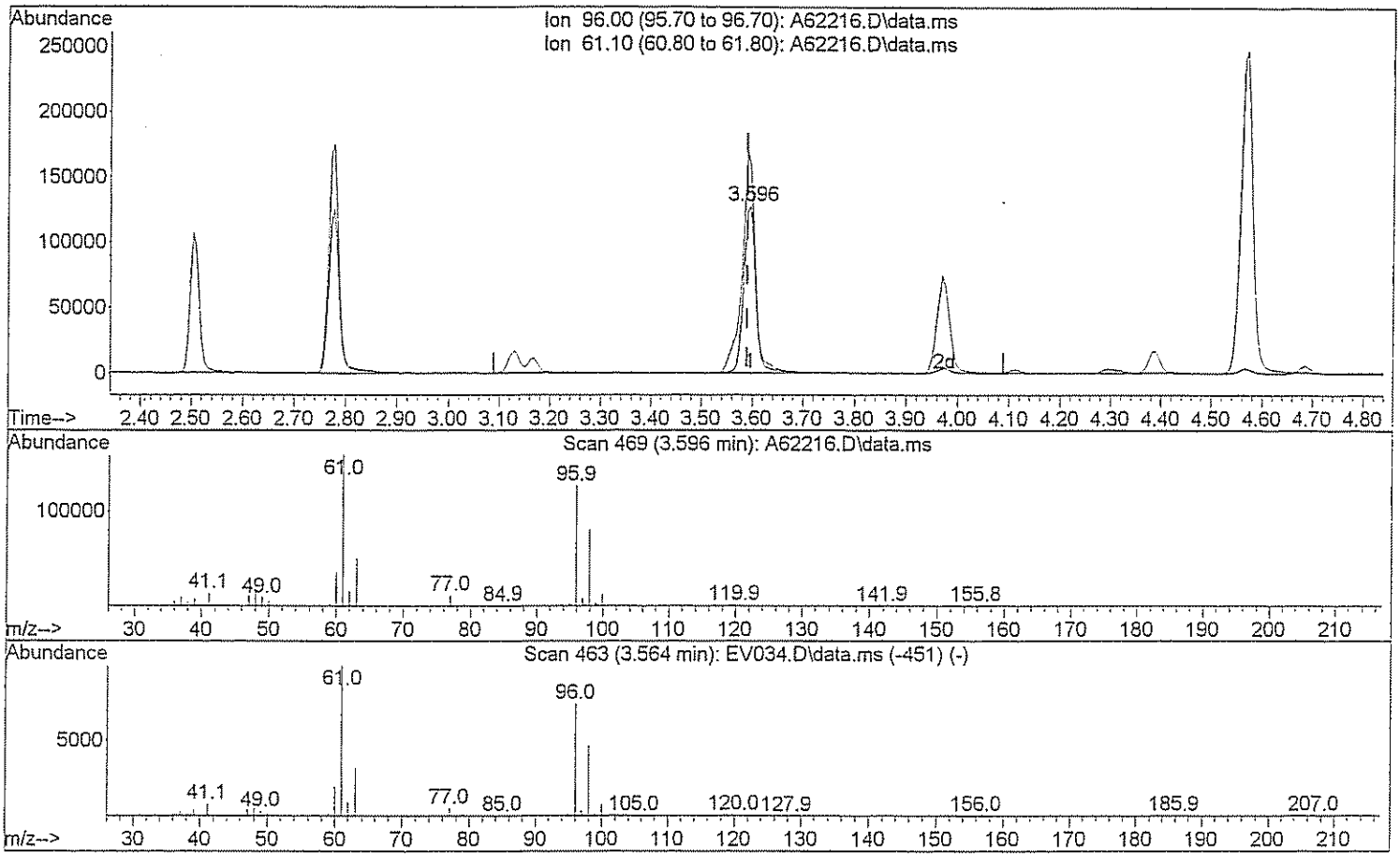
response 206197

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	148.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(29) 1,2-dichloroethene(total)

3.596min (+0.005) 248.16 ug/L m JM 3/12/09

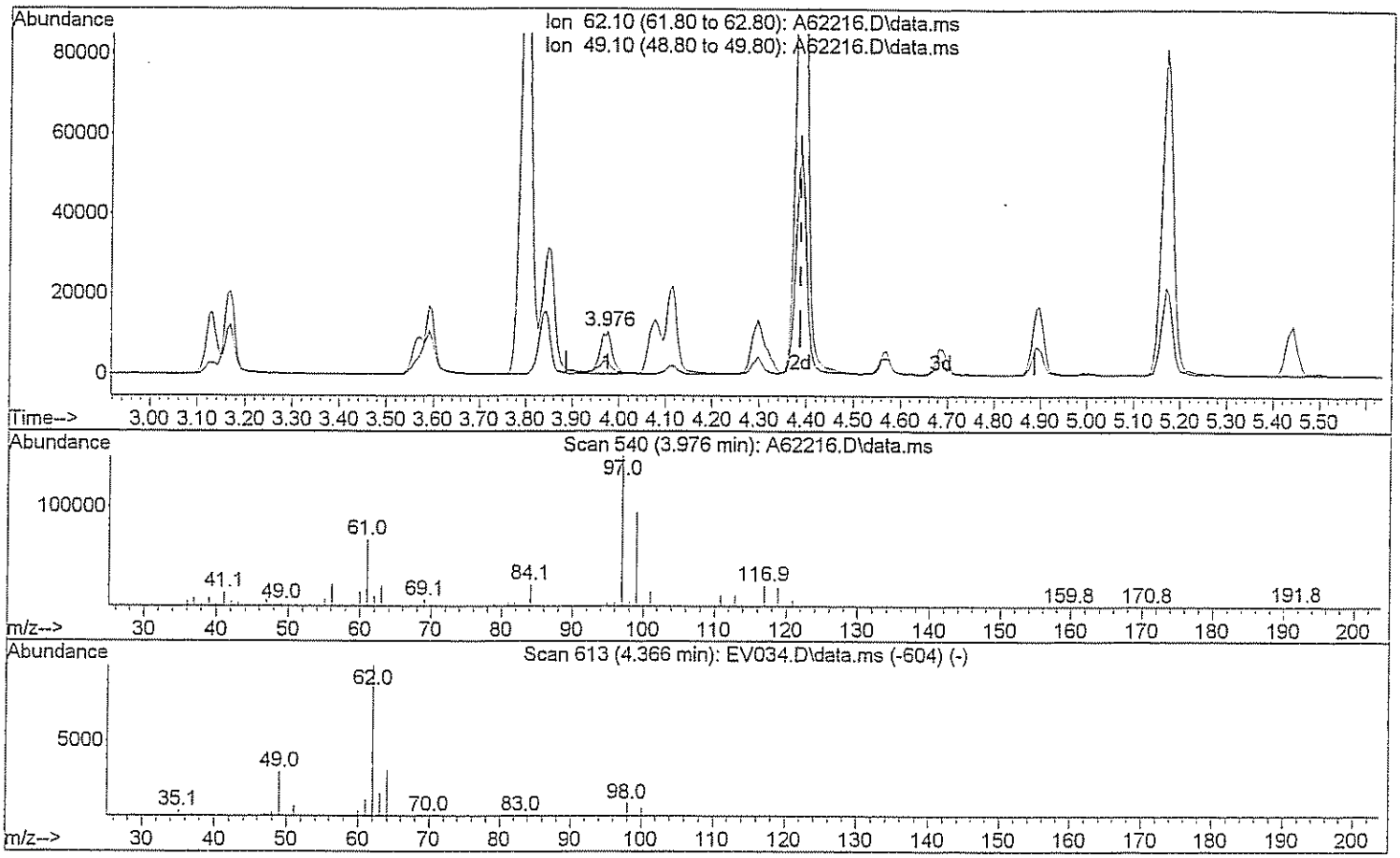
response 391183

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	78.09#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(45) 1,2-Dichloroethane

3.976min (-0.412) 8.79 ug/L

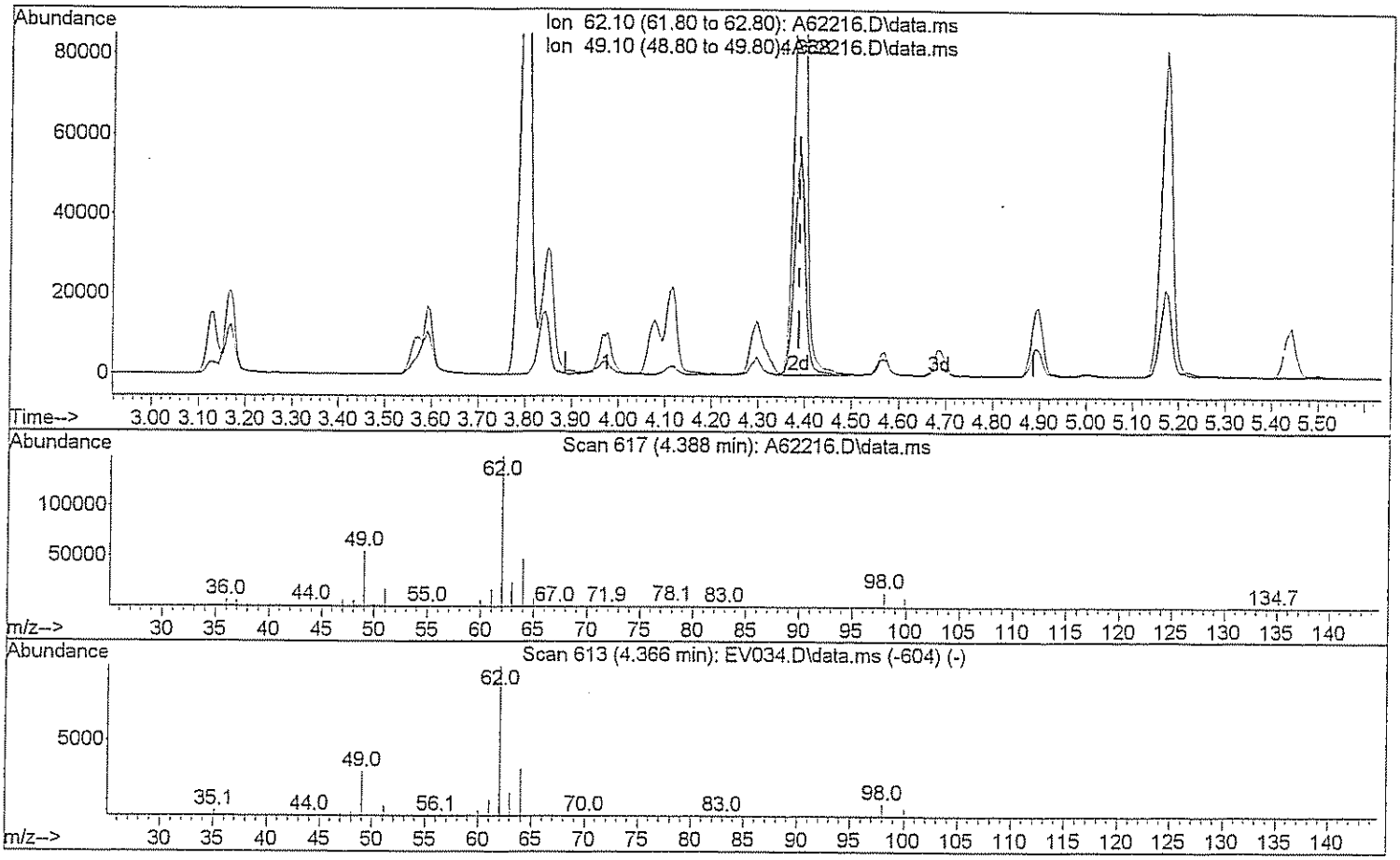
response 20048

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	33.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(45) 1,2-Dichloroethane

4.388min (-0.000) 106.17 ug/L m DW 3/12/09

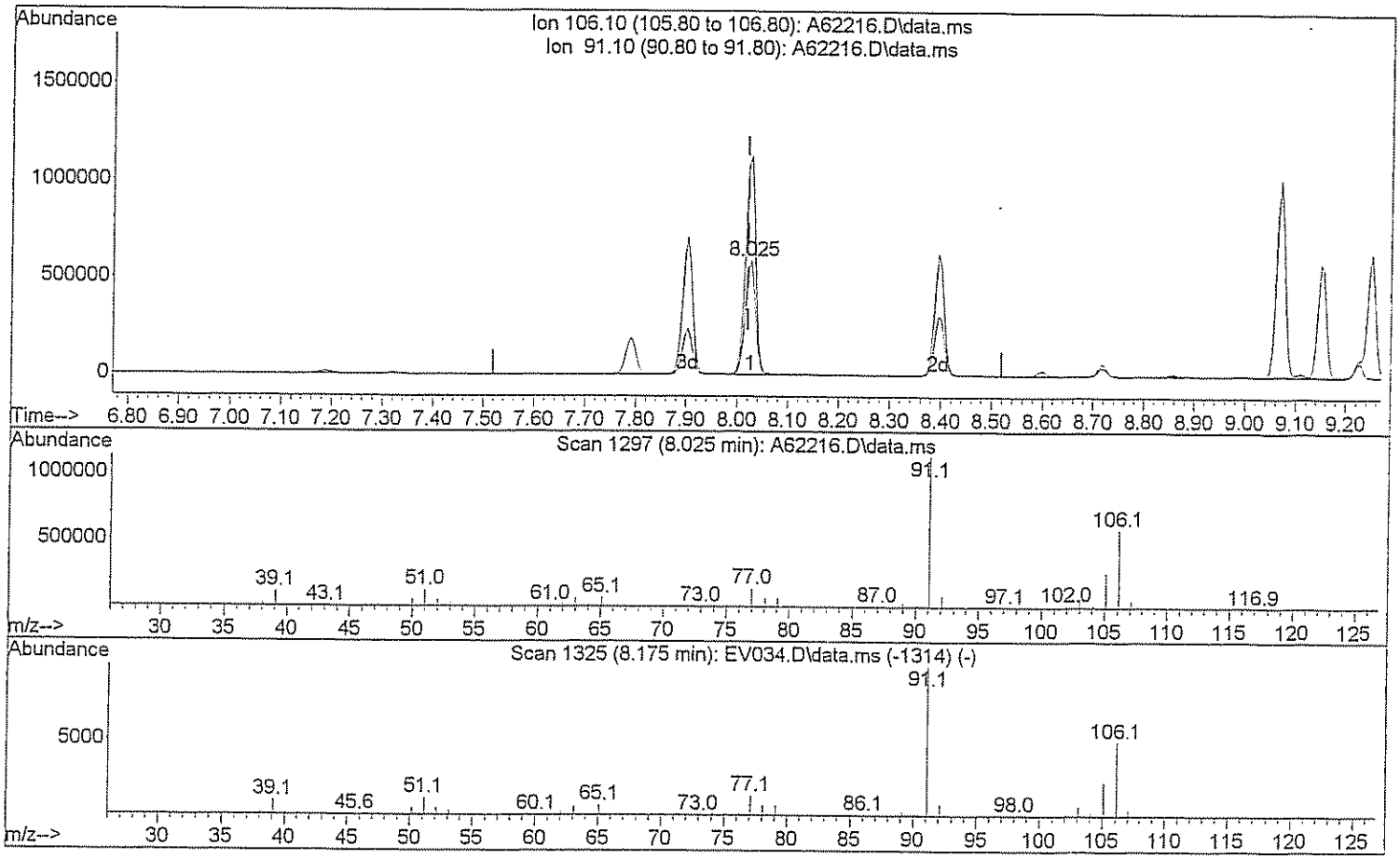
response 242233

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(71) Xylene (Total)

8.025min (+0.005) 203.08 ug/L

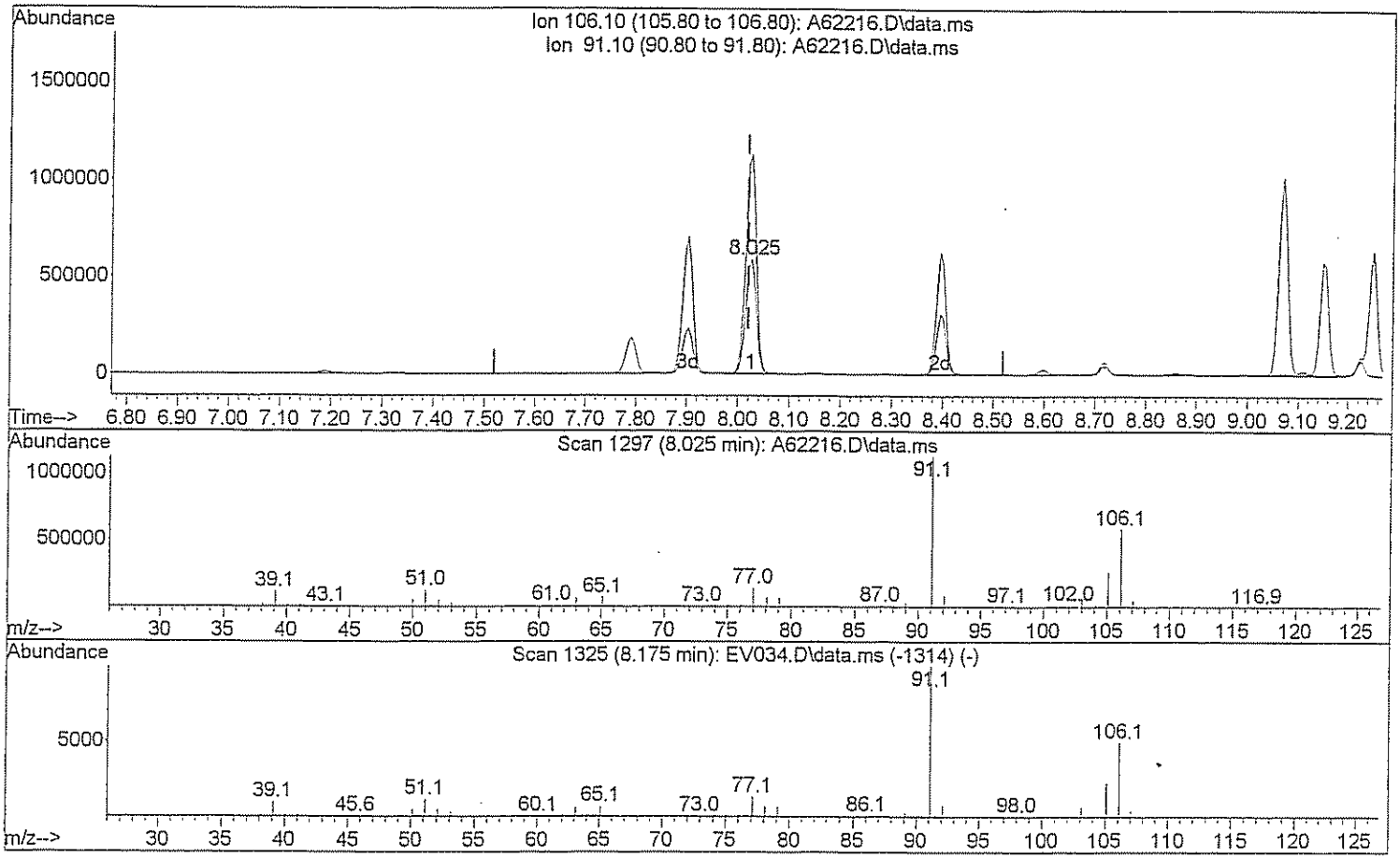
response 805262

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(71) Xylene (Total)

8.025min (+0.005) 306.63 ug/L m DW 3/12/09

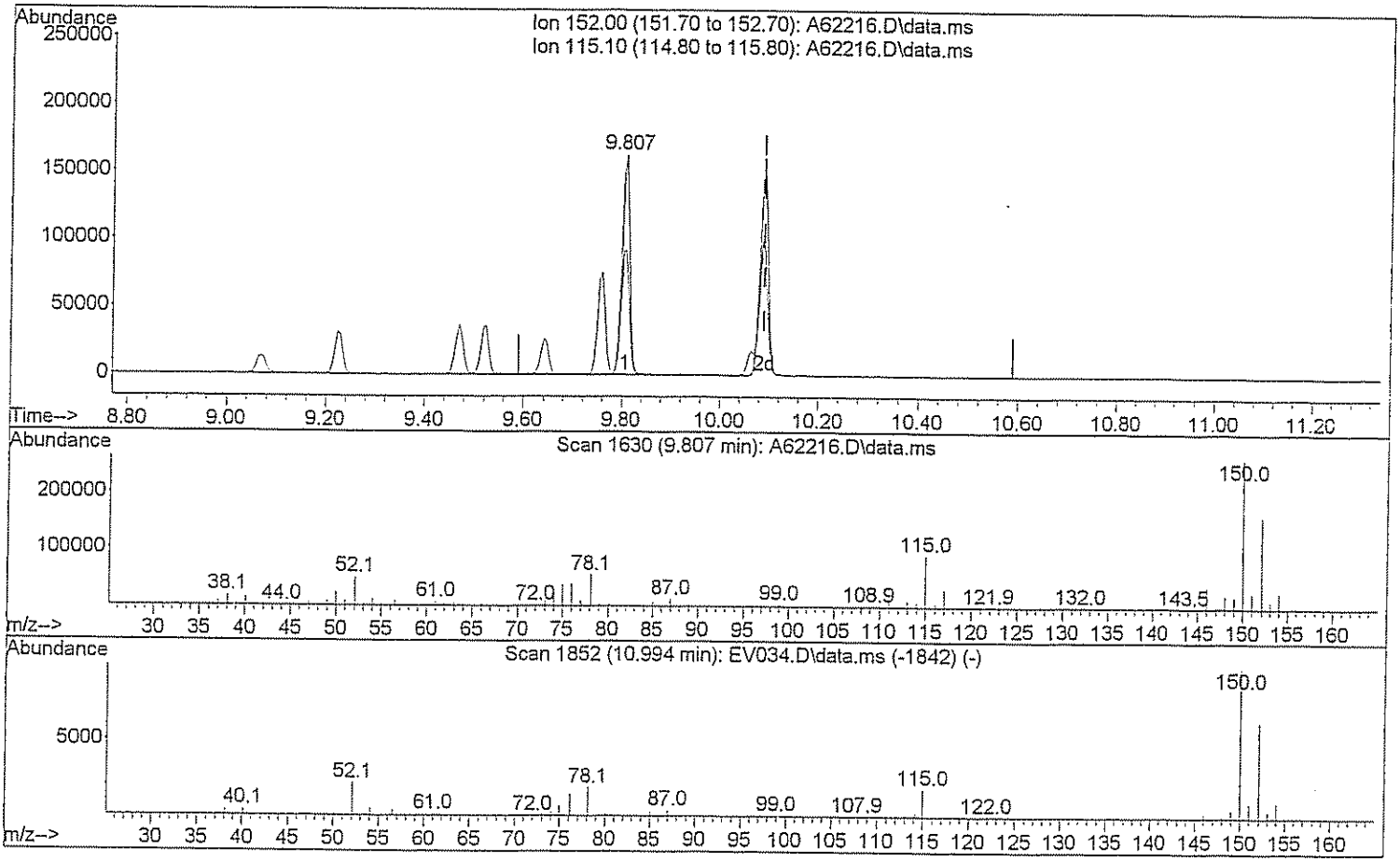
response 1215901

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	127.80#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.284) 51.19 ug/L

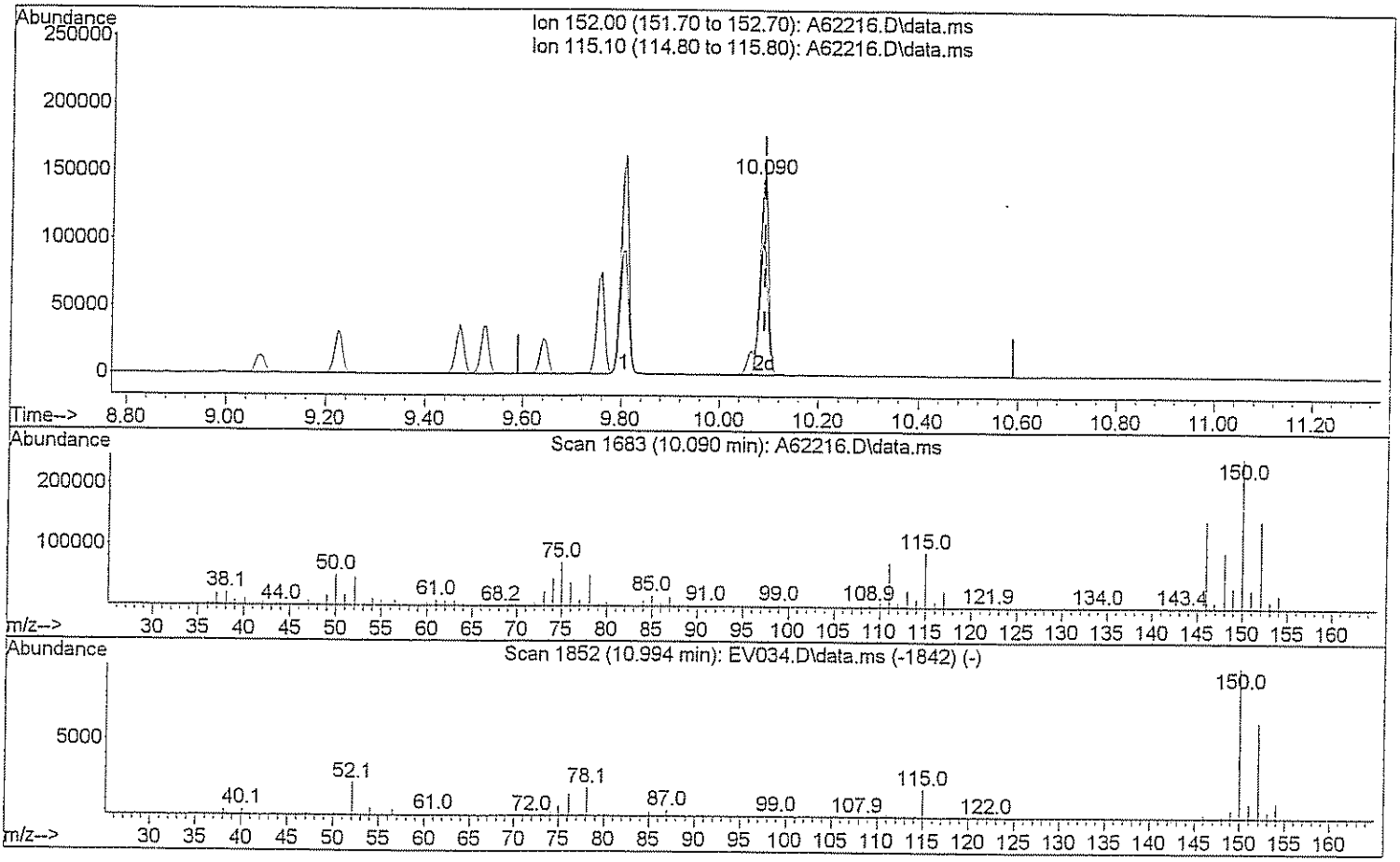
response 183623

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

10.090min (0.000) 48.93 ug/L m Sm 3/12/09

response 175535

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	62.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.564	96	301617	50.00 ug/L	0.00
40) 1,4-Difluorobenzene	4.682	114	243072	50.00 ug/L	0.00
58) Chlorobenzene-d5	7.785	117	282592	50.00 ug/L	0.00
System Monitoring Compounds					
39) 1,2-Dichloroethane-d4	4.313	65	89417	55.11 ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 110.22%		
53) Toluene-d8	6.148	98	305795	63.82 ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 127.64%#		
75) 4-Bromofluorobenzene	8.887	95	145204	51.84 ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 103.68%		
91) 1,2-Dichlorobenzene-d4	10.090	152	162681m	53.53 ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.06%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.205	85	148889	241.08 ug/L	100
3) Chloromethane	1.349	50	345876	371.24 ug/L	95
4) Vinyl chloride	1.413	62	283953	240.69 ug/L	94
5) Bromomethane	1.633	94	125968	309.71 ug/L	90
6) Chloroethane	1.697	64	196387	250.75 ug/L	97
7) Trichlorofluoromethane	1.841	101	601503	388.81 ug/L	100
8) Ethyl Ether	2.061	59	277581	270.88 ug/L	96
9) Freon 113	2.189	101	215811	226.44 ug/L	93
10) Acrolein	2.210	56	352264	1695.43 ug/L #	75
11) Tert-Butyl alcohol	2.713	59	902659	11007.26 ug/L #	47
12) 1,1-Dichloroethene	2.216	96	251488	253.42 ug/L	90
13) Iodomethane	2.344	142	219213	166.13 ug/L	97
14) Acetonitrile	2.494	40	1585524	2369.96 ug/L #	1
15) Methylene chloride	2.606	84	284381	231.45 ug/L	100
16) Trans-1,2-dichloroethene	2.767	96	256339	221.43 ug/L	90
17) Isopropyl ether	3.109	45	1079678	236.98 ug/L	97
18) 1,1-Dichloroethane	3.120	63	484117	224.53 ug/L	99
19) Acetone	2.323	43	282241	754.40 ug/L	96
20) Methyl Acetate	4.281	43	462717	496.64 ug/L #	100
21) MTBE	2.756	73	782608	233.92 ug/L	100
22) Carbon disulfide	2.366	76	758520	232.64 ug/L	100
24) Acrylonitrile	2.852	53	585590	1608.66 ug/L	99
25) Chloroprene	3.157	53	401390	207.20 ug/L	89
26) n-Heptane	4.441	71	178169m	186.05 ug/L	
27) 2,2-Dichloropropane	3.559	77	373239	210.30 ug/L #	68
28) Cis-1,2-dichloroethene	3.585	96	291314	212.32 ug/L	98

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.585	96	569196m	444.24 ug/L	
30) Propionitrile	3.756	54	606277	3553.72 ug/L	99
31) Bromochloromethane	3.794	128	153919	227.52 ug/L	92
32) Tetrahydrofuran	3.799	72	99174	308.07 ug/L #	1
33) Chloroform	3.853	83	554580	240.41 ug/L	97
34) Cyclohexane	3.944	56	433904	207.69 ug/L	92
35) 1,1,1-Trichloroethane	3.965	97	409468	216.04 ug/L	98
36) Carbon tetrachloride	4.072	117	326004	195.68 ug/L	99
37) Methylcyclohexane	4.998	83	395598	190.22 ug/L	93
38) Isobutyl Alcohol	4.441	43	338177	3789.72 ug/L	90
41) 2-Butanone	3.628	43	455142	614.91 ug/L	96
42) 1,1-Dichloropropene	4.104	75	338797	205.92 ug/L	98
43) Vinyl Acetate	3.147	43	388046	220.71 ug/L	96
44) Benzene	4.291	78	1133596	219.28 ug/L	100
45) 1,2-Dichloroethane	4.382	62	367561	216.91 ug/L #	85
46) Trichloroethene	4.891	95	274214	211.30 ug/L	92
47) 1,2-Dichloropropane	5.169	63	304880	215.26 ug/L	95
48) Methyl methacrylate	5.270	69	232777	242.56 ug/L	95
49) Dibromomethane	5.286	93	192552	222.42 ug/L	97
50) Bromodichloromethane	5.436	83	389025	214.61 ug/L	100
51) 2-Chloroethylvinyl ether	5.784	63	879262	936.70 ug/L	98
52) Cis-1,3-dichloropropene	5.923	75	484787	216.78 ug/L	100
54) Toluene	6.223	92	780815	268.43 ug/L	98
55) Trans-1,3-dichloropropene	6.576	75	462937	264.33 ug/L	99
56) Ethyl methacrylate	6.629	69	424850	316.46 ug/L	92
57) 1,1,2-Trichloroethane	6.779	83	249676	272.84 ug/L	94
59) 4-Methyl-2-pentanone	6.105	43	849634	455.61 ug/L	97
60) 2-Hexanone	7.068	43	561084	432.52 ug/L	99
61) Tetrachloroethene	6.800	166	313302	192.40 ug/L	97
62) 1,3-Dichloropropane	6.977	76	475351	197.55 ug/L	94
63) Dibromochloromethane	7.191	129	356573	204.08 ug/L	99
64) 1,2-Dibromoethane	7.319	107	310852	203.64 ug/L	98
65) 1-Chlorohexane	7.790	91	443202	197.07 ug/L	93
66) Chlorobenzene	7.812	112	1027078	206.85 ug/L	88
67) 1,1,1,2-Tetrachloroethane	7.913	131	409574	214.53 ug/L	97
68) Ethylbenzene	7.902	91	1756505	213.77 ug/L	99
69) m,p-Xylene	8.025	106	1497265	440.25 ug/L	92
70) o-Xylene	8.400	106	745507	214.39 ug/L	94
71) Xylene (Total)	8.025	106	2273541m	662.20 ug/L	
72) Styrene	8.427	104	1236243	214.63 ug/L	94
73) Bromoform	8.598	173	276649	227.67 ug/L	100
74) Isopropylbenzene	8.716	105	1677265	220.31 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration

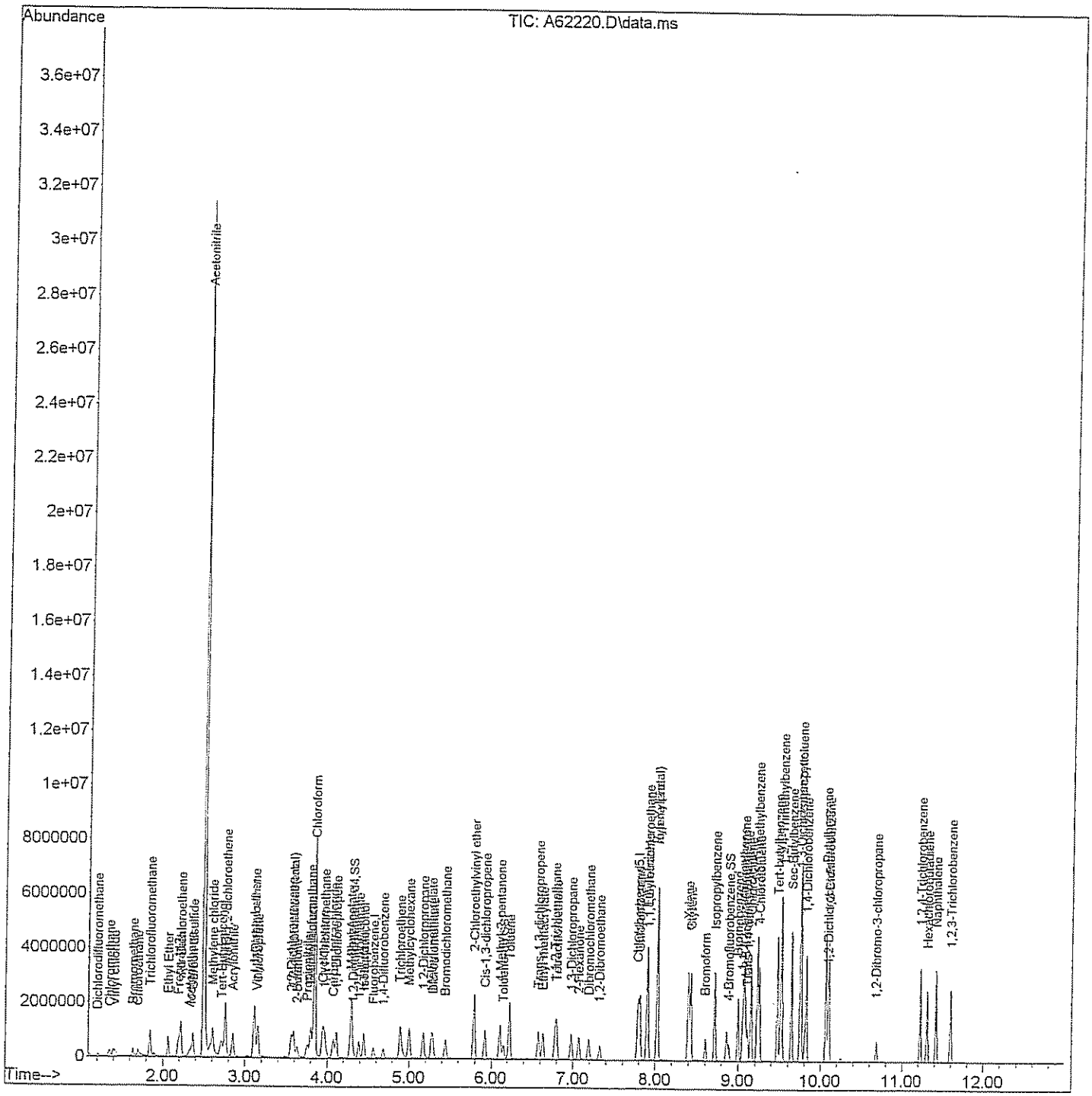
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	461938	219.95 ug/L	98
77) 1,1,2,2-Tetrachloroethane	9.053	83	487906	221.07 ug/L	96
78) 1,2,3-Trichloropropane	9.090	110	149582	232.98 ug/L	97
79) n-Propylbenzene	9.069	91	2232670	216.79 ug/L	99
80) Trans-1,4-dichloro-2-b...	9.111	53	162162	243.67 ug/L #	1
81) 2-Chlorotoluene	9.154	126	473615	212.70 ug/L	91
82) 4-Chlorotoluene	9.251	126	489840	211.74 ug/L	95
83) 1,3,5-Trimethylbenzene	9.229	105	1797797	226.75 ug/L	96
84) Tert-butylbenzene	9.470	119	1619572	229.36 ug/L	97
86) 1,2,4-Trimethylbenzene	9.523	105	1888366	230.96 ug/L	94
87) Sec-Butylbenzene	9.641	105	2427225	224.55 ug/L	99
88) 1,3-Dichlorobenzene	9.748	146	1109997	240.90 ug/L	99
89) 4-Isopropyltoluene	9.759	119	2287318	240.78 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	1049043	224.29 ug/L	98
92) 1,2-Dichlorobenzene	10.101	146	998684	224.76 ug/L	100
93) n-Butylbenzene	10.064	91	1958135	224.12 ug/L	96
94) 1,2-Dibromo-3-chloropr...	10.679	75	108926	245.86 ug/L #	78
95) 1,2,4-Trichlorobenzene	11.225	180	708457	243.62 ug/L	99
96) Hexachlorobutadiene	11.305	225	309724	255.98 ug/L	99
97) Naphthalene	11.412	128	1928687	239.70 ug/L	100
98) 1,2,3-Trichlorobenzene	11.599	180	620869	238.08 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

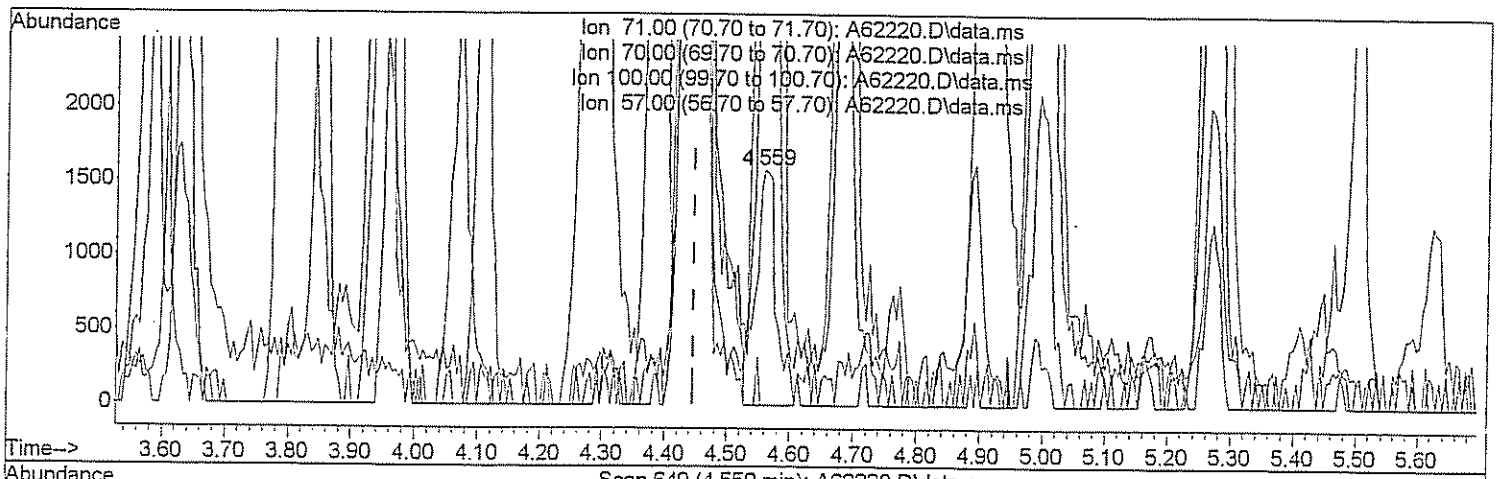
Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration

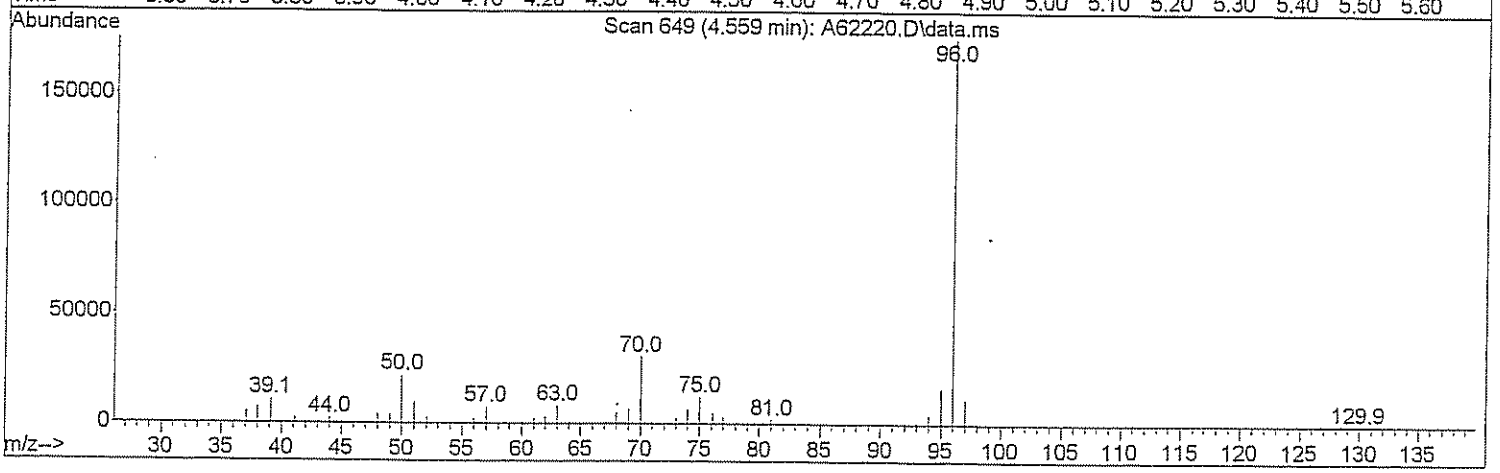


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration





TIC: A62220.D\data.ms

(26) n-Heptane (T)

4.559min (+0.112) 3.71 ug/L

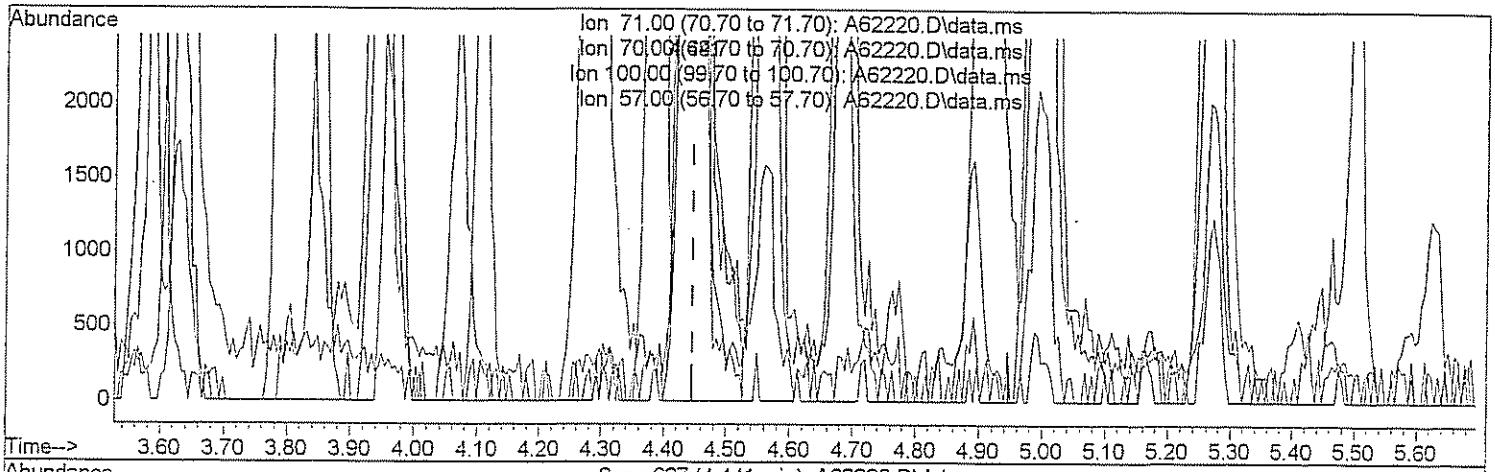
response 3552

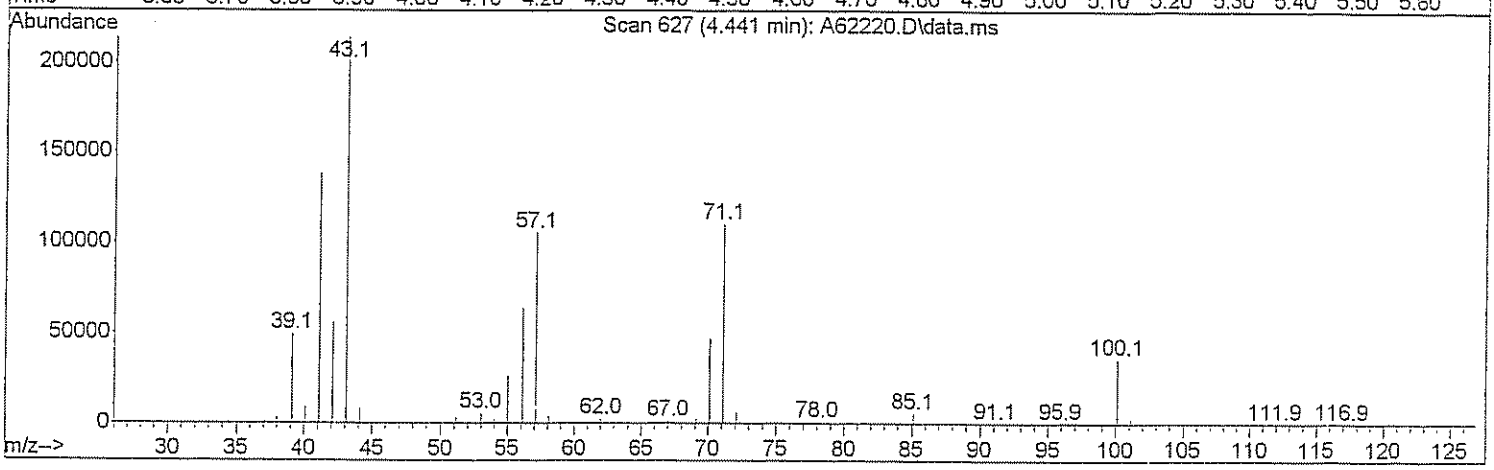
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1479.76#
100.00	60.00	0.00#
57.00	34.00	322.16#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration





TIC: A62220.D\data.ms

(26) n-Heptane (T)

4.441min (-0.005) 186.05 ug/L m DW 3/12/09

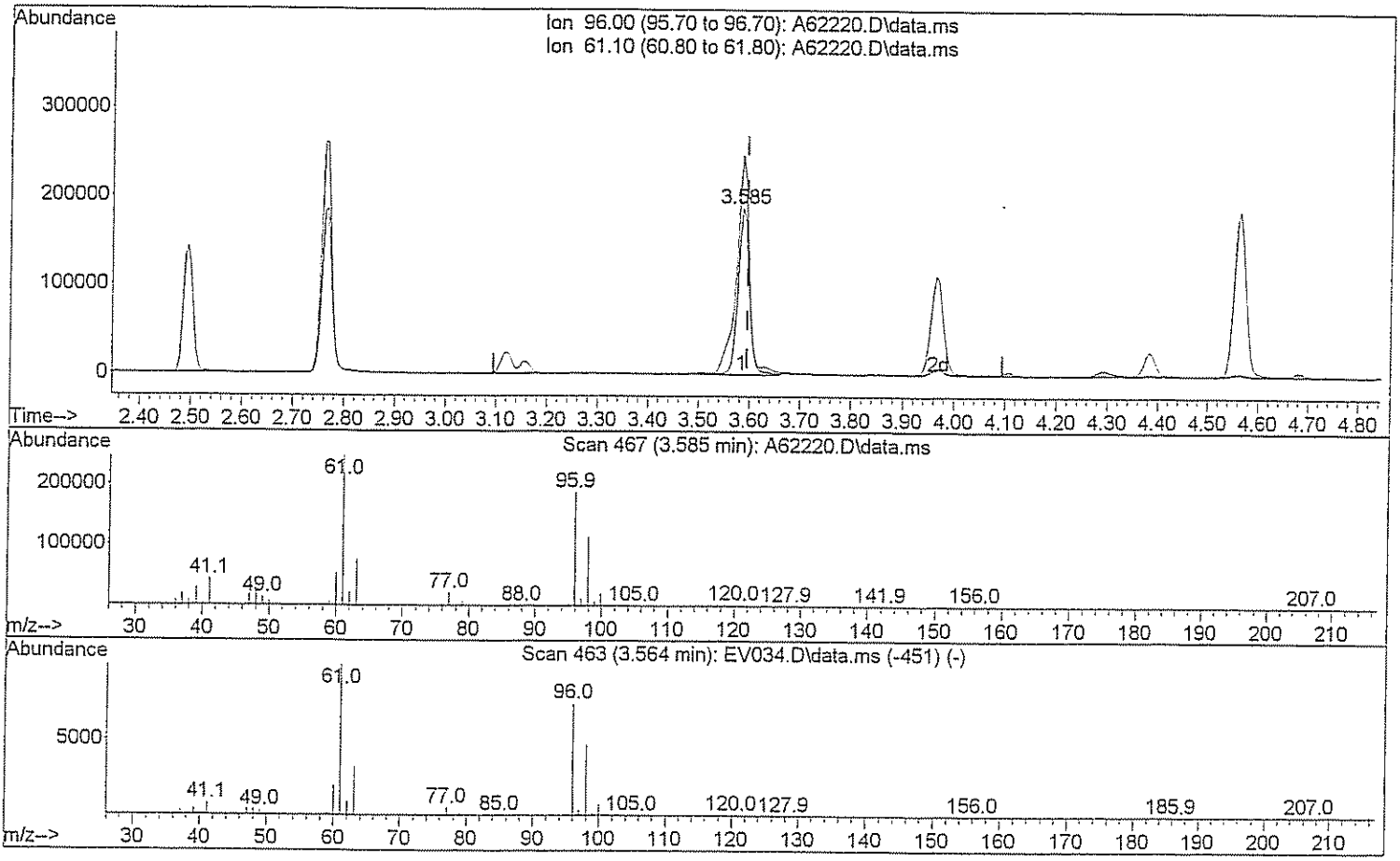
response 178169

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	29.50
100.00	60.00	0.00#
57.00	34.00	6.42#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(29) 1,2-dichloroethene(total)

3.585min (-0.011) 227.36 ug/L

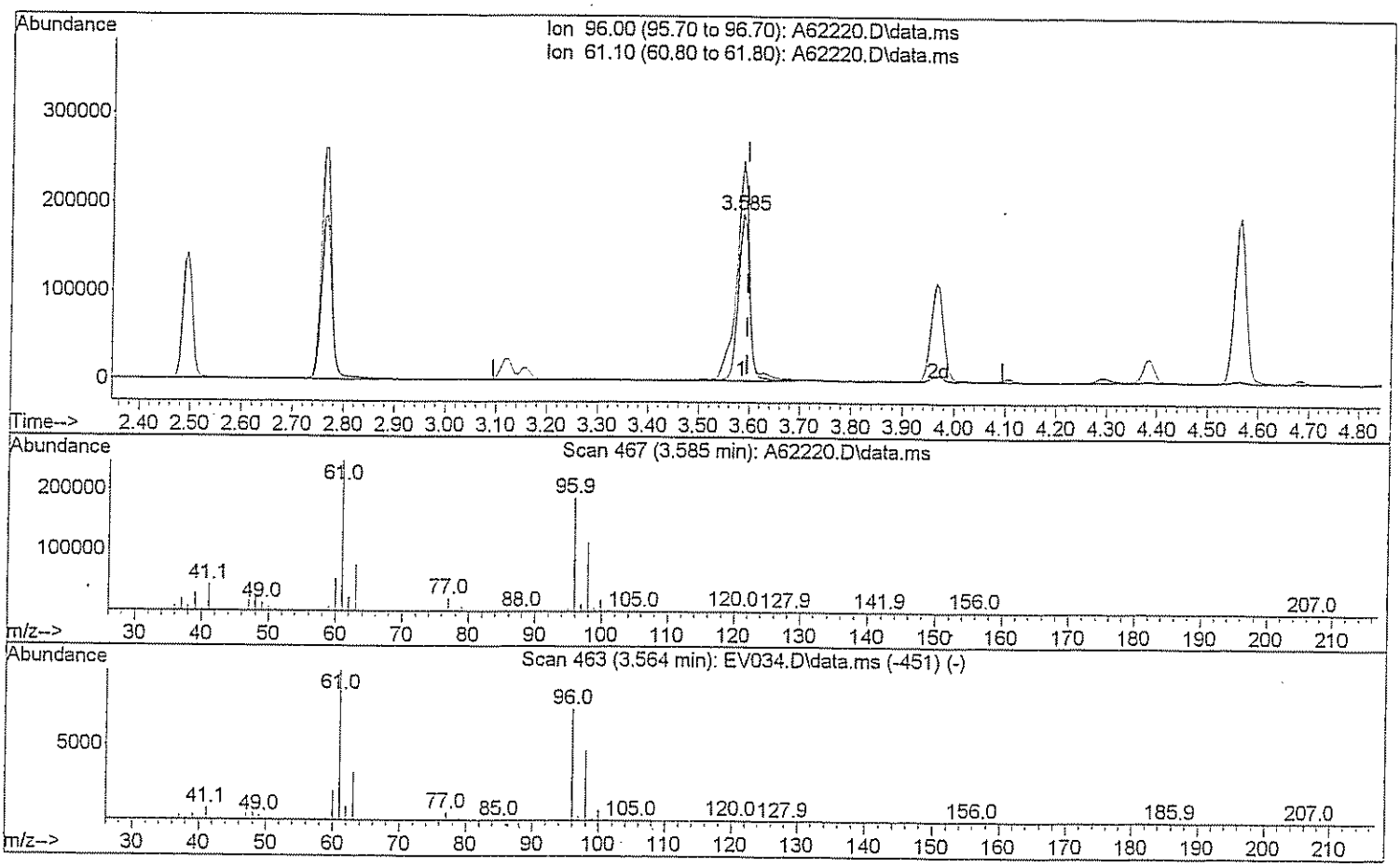
response 291314

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	146.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(29) 1,2-dichloroethene(total)

3.585min (-0.011) 444.24 ug/L m SM 3/12/09

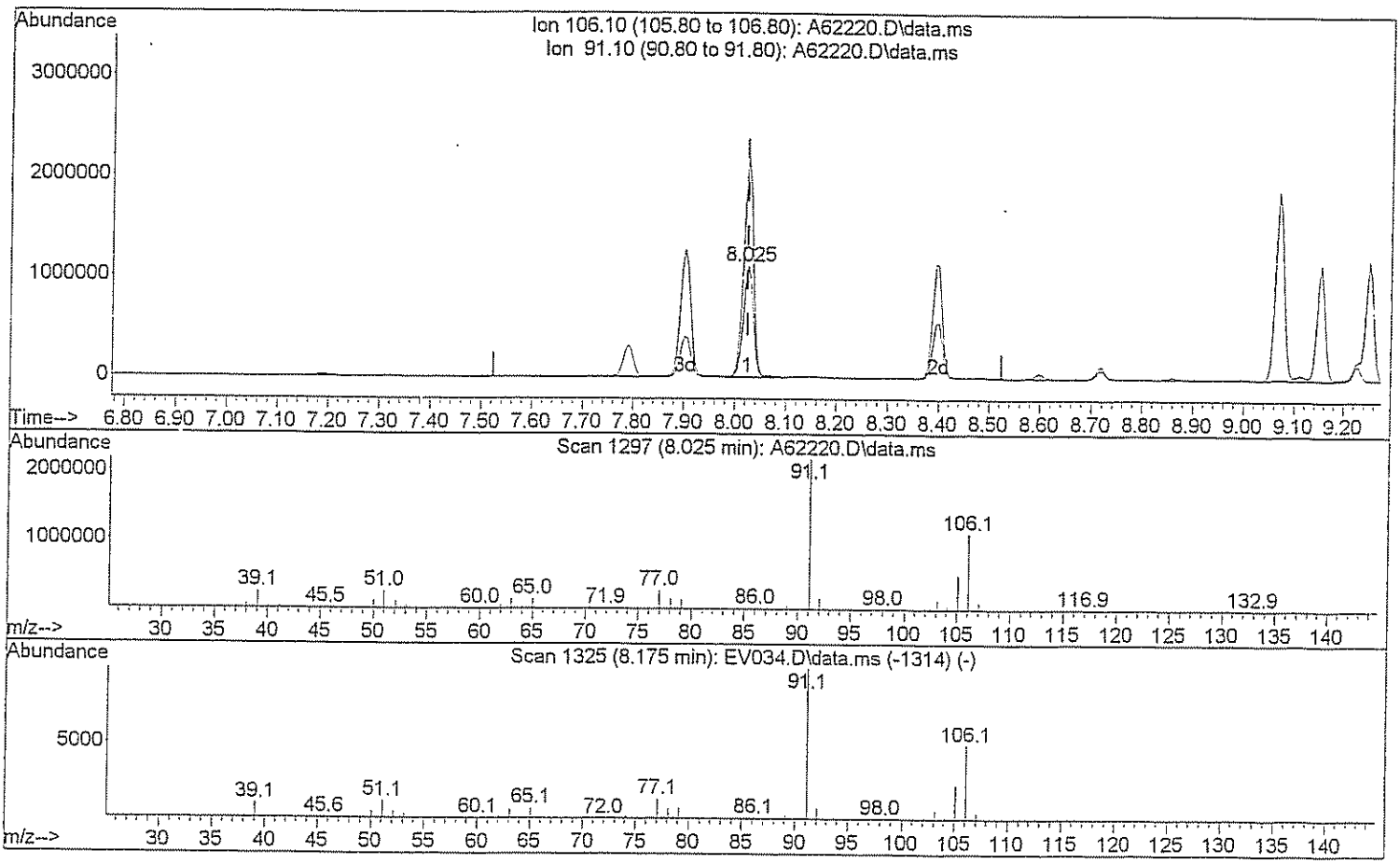
response 569196

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	74.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(71) Xylene (Total)

8.025min (+0.000) 436.10 ug/L

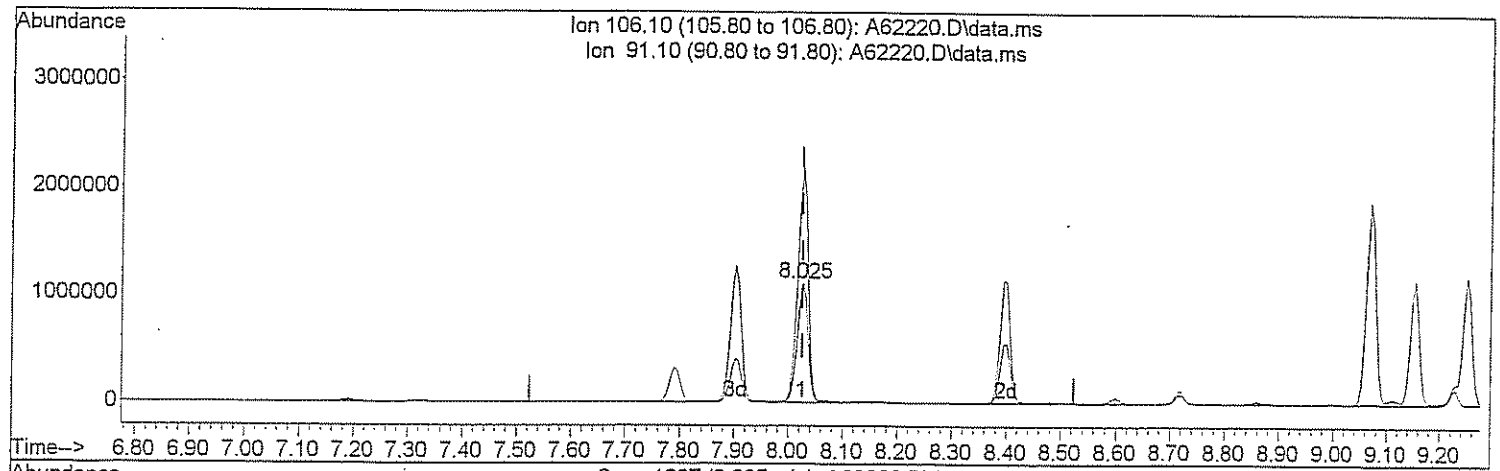
response 1497265

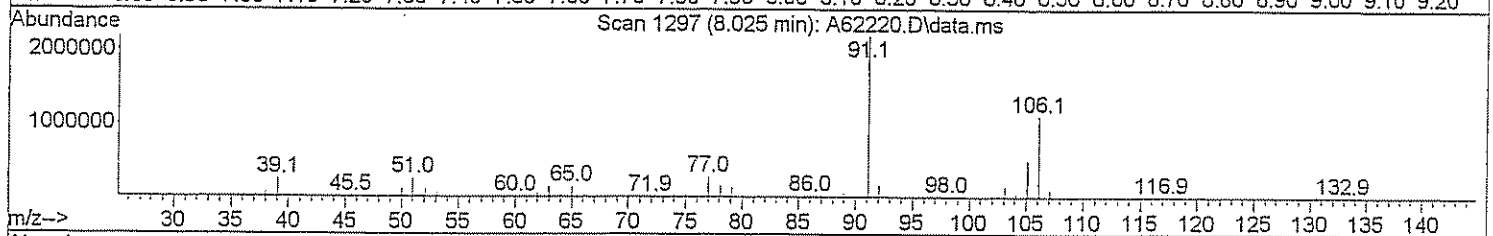
Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.43
0.00	0.00	0.00
0.00	0.00	0.00

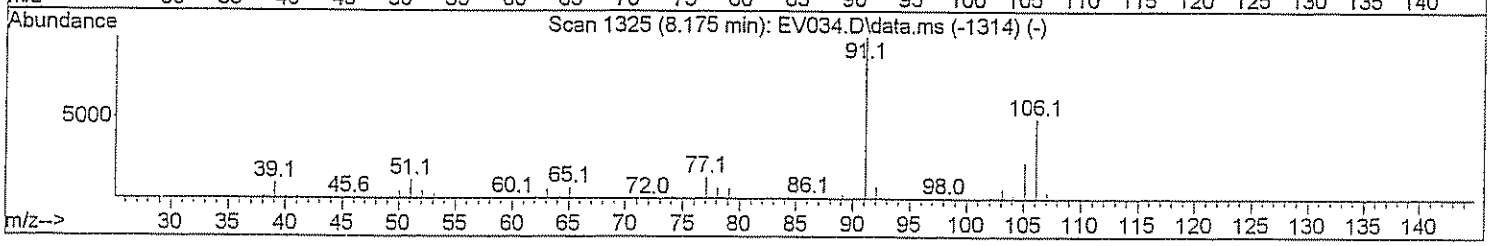
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration







TIC: A62220.D\data.ms

(71) Xylene (Total)

8.025min (+0.000) 662.20 ug/L m Am 3/12/09

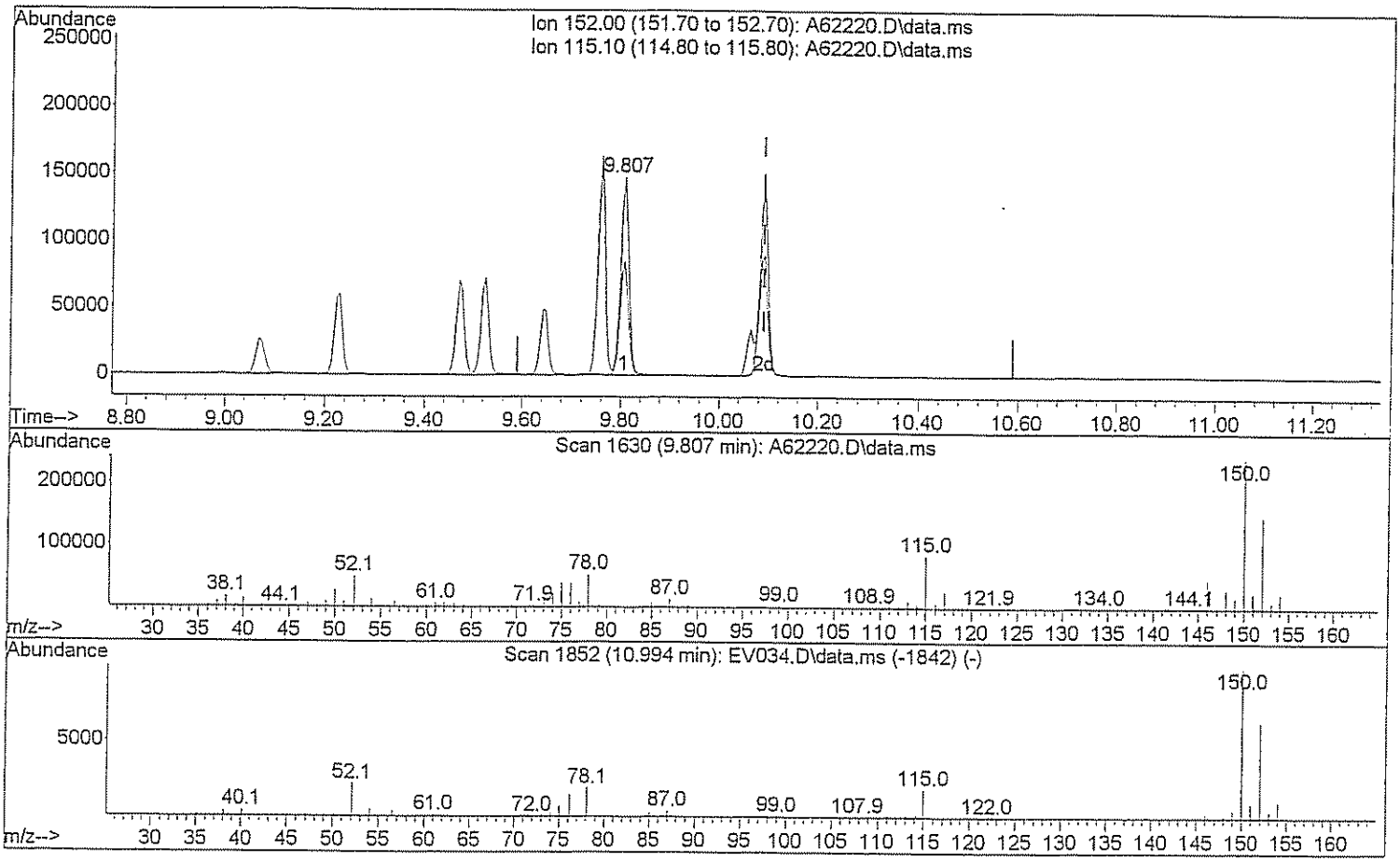
response 2273541

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.283) 56.42 ug/L

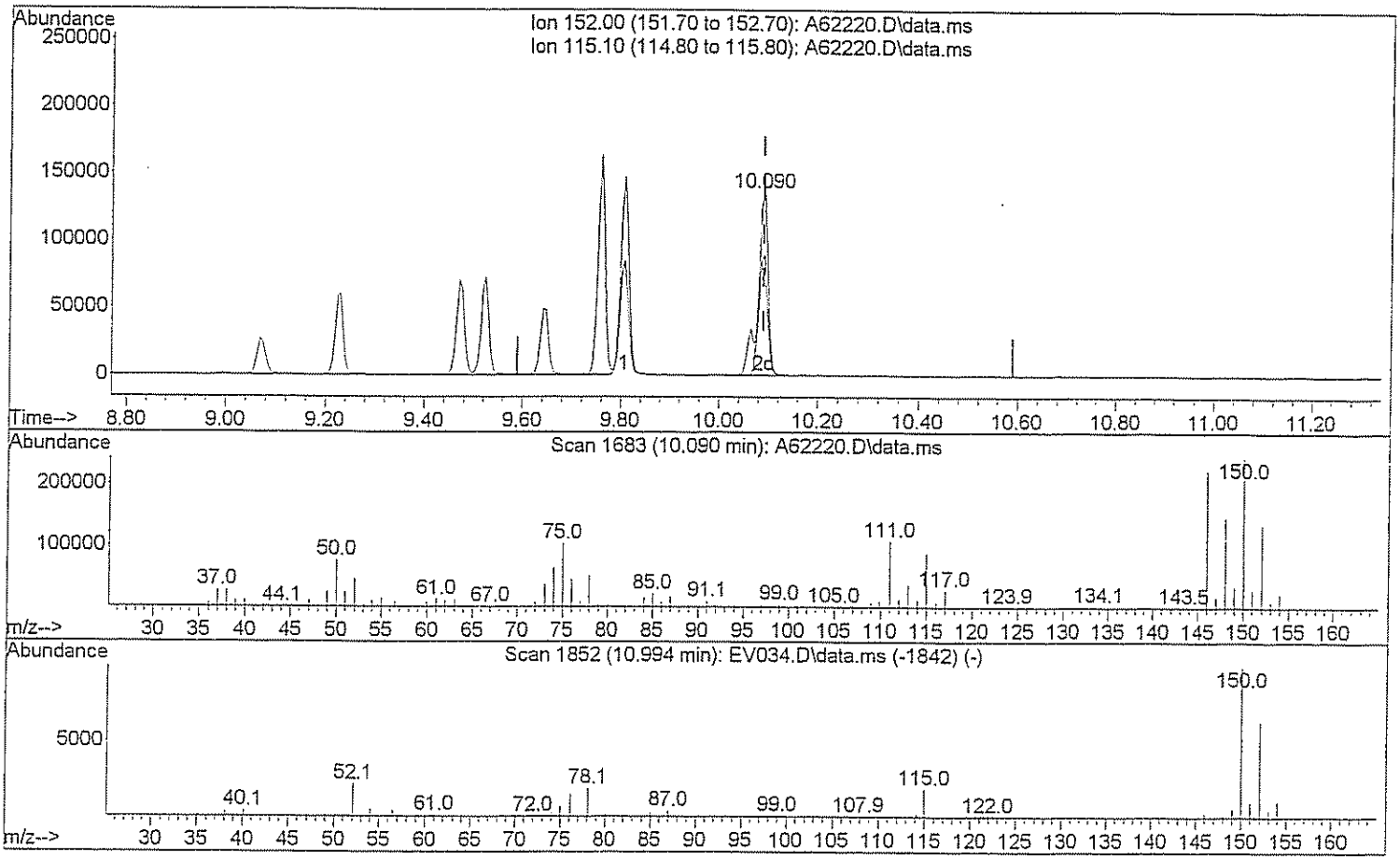
response 171456

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.000) 53.53 ug/L m DW 3/12/09

response 162681

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	62.65
0.00	0.00	0.00
0.00	0.00	0.00

REFERENCE

Evaluate ~~Continuing~~ Calibration Report

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	46#	0.00
2		Dichlorodifluoromethane	0.113	0.147	-30.1#	78	0.00
3		Chloromethane	0.142	0.146	-2.8	63	0.00
4		Vinyl chloride	0.183	0.233	-27.3#	64	0.00
5		Bromomethane	0.064	0.082	-28.1#	69	0.00
6		Chloroethane	0.142	0.133	6.3	52	0.00
7		Trichlorofluoromethane	0.239	0.290	-21.3	61	0.00
8		Ethyl Ether	0.186	0.204	-9.7	63	0.00
9		Freon 113	0.170	0.186	-9.4	66	0.00
10		Acrolein	0.043	0.047	-9.3	71	0.00
11		Tert-Butyl alcohol	0.020	0.016	20.0	64	0.00
12		1,1-Dichloroethene	0.184	0.181	1.6	60	0.00
13		Iodomethane	0.164	0.256	-56.1#	65	0.00
14		Acetonitrile	0.096	0.118	-22.9	61	0.00
15		Methylene chloride	0.257	0.229	10.9	58	0.00
16		Trans-1,2-dichloroethene	0.200	0.200	0.0	55	0.00
17		Isopropyl ether	0.805	0.895	-11.2	62	0.01
18		1,1-Dichloroethane	0.356	0.398	-11.8	58	0.00
19		Acetone	0.092	0.092	0.0	75	0.00
20		Methyl Acetate	0.209	0.179	14.4	54	0.00
21		MTBE	0.579	0.630	-8.8	60	0.00
22		Carbon disulfide	0.764	0.627	17.9	61	0.00
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.077	-2.7	66	0.00
25		Chloroprene	0.341	0.349	-2.3	59	0.00
26	T	n-Heptane	0.174	0.178	-2.3	53	0.00
27		2,2-Dichloropropane	0.291	0.300	-3.1	52	0.00
28		Cis-1,2-dichloroethene	0.238	0.228	4.2	51	0.00
29		1,2-dichloroethene(total)	0.217	0.219	-0.9	53	-0.82#
30		Propionitrile	0.032	0.033	-3.1	58	0.00
31		Bromochloromethane	0.115	0.117	-1.7	51	0.00
32		Tetrahydrofuran	0.059	0.057	3.4	52	0.00
33		Chloroform	0.403	0.393	2.5	52	0.00
34		Cyclohexane	0.398	0.400	-0.5	57	0.00
35		1,1,1-Trichloroethane	0.307	0.320	-4.2	49#	0.00
36		Carbon tetrachloride	0.232	0.246	-6.0	43#	0.00
37		Methylcyclohexane	0.342	0.373	-9.1	52	0.00
38		Isobutyl Alcohol	0.016	0.018	-12.5	57	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.301	-9.1	52	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	46#	0.00
41		2-Butanone	0.191	0.183	4.2	60	0.00
42		1,1-Dichloropropene	0.326	0.337	-3.4	47#	0.00
43		Vinyl Acetate	0.357	0.343	3.9	52	0.00
44		Benzene	1.078	1.051	2.5	46#	0.00
45		1,2-Dichloroethane	0.340	0.371	-9.1	50	0.00
46		Trichloroethene	0.276	0.265	4.0	46#	0.00
47		1,2-Dichloropropane	0.280	0.284	-1.4	45#	0.00
48		Methyl methacrylate	0.221	0.193	12.7	45#	0.00
49		Dibromomethane	0.170	0.167	1.8	43#	0.00
50		Bromodichloromethane	0.361	0.340	5.8	42#	0.00
51		2-Chloroethylvinyl ether	0.188	0.181	3.7	44#	0.00
52		Cis-1,3-dichloropropene	0.408	0.396	2.9	40#	0.00
53	SS	Toluene-d8	1.110	1.140	-2.7	62	0.00
54		Toluene	0.589	0.630	-7.0	57	0.00
55		Trans-1,3-dichloropropene	0.372	0.365	1.9	54	0.00
56		Ethyl methacrylate	0.349	0.359	-2.9	59	0.00
57		1,1,2-Trichloroethane	0.208	0.214	-2.9	60	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	66	0.00
59		4-Methyl-2-pentanone	0.350	0.315	10.0	64	0.00
60		2-Hexanone	0.240	0.223	7.1	63	0.00
61		Tetrachloroethene	0.264	0.265	-0.4	62	0.00
62		1,3-Dichloropropane	0.405	0.413	-2.0	64	0.00
63		Dibromochloromethane	0.278	0.263	5.4	57	0.02
64		1,2-Dibromoethane	0.251	0.249	0.8	61	0.00
65		1-Chlorohexane	0.415	0.371	10.6	62	0.00
66		Chlorobenzene	0.821	0.804	2.1	62	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.297	2.6	60	0.00
68		Ethylbenzene	1.403	1.349	3.8	62	0.00
69		m,p-Xylene	0.579	0.557	3.8	62	0.00
70		o-Xylene	0.571	0.573	-0.4	63	0.00
71		Xylene (Total)	0.573	0.565	1.4	62	0.00
72		Styrene	0.959	0.942	1.8	62	0.00
73		Bromoform	0.187	0.188	-0.5	59	0.00
74		Isopropylbenzene	1.268	1.282	-1.1	64	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.535	-7.9	71	0.00
76		Bromobenzene	0.362	0.364	-0.6	64	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.387	0.0	66	0.00
78		1,2,3-Trichloropropane	0.116	0.110	5.2	64	0.00
79		n-Propylbenzene	1.718	1.735	-1.0	63	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.119	-8.2	68	0.00
81		2-Chlorotoluene	0.368	0.384	-4.3	64	0.00
82		4-Chlorotoluene	0.392	0.396	-1.0	63	0.00
83		1,3,5-Trimethylbenzene	1.331	1.366	-2.6	65	0.00
84		Tert-butylbenzene	1.188	1.244	-4.7	67	0.00
85		Pentachloroethane	0.000	0.000	0.0	59	0.00
86		1,2,4-Trimethylbenzene	1.416	1.418	-0.1	65	0.00
87		Sec-Butylbenzene	1.840	1.894	-2.9	66	0.00
88		1,3-Dichlorobenzene	0.805	0.815	-1.2	66	0.00
89		4-Isopropyltoluene	1.579	1.670	-5.8	66	0.00
90		1,4-Dichlorobenzene	0.804	0.837	-4.1	67	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.599	-10.7	73	0.00
92		1,2-Dichlorobenzene	0.773	0.815	-5.4	68	0.00
93		n-Butylbenzene	1.496	1.533	-2.5	66	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.087	-13.0	73	0.00
95		1,2,4-Trichlorobenzene	0.529	0.591	-11.7	75	0.00
96		Hexachlorobutadiene	0.235	0.253	-7.7	81	0.00
97		Naphthalene	1.447	1.574	-8.8	73	0.00
98		1,2,3-Trichlorobenzene	0.473	0.528	-11.6	75	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	225368	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	184873	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.785	117	197670	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	67928	54.56	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 109.12%				
53) Toluene-d8	6.148	98	210745	51.36	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 102.72%				
75) 4-Bromofluorobenzene	8.881	95	105728	53.90	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 107.80%				
91) 1,2-Dichlorobenzene-d4	10.085	152	118385	55.32	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 110.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.210	85	33095	64.90	ug/L		92
3) Chloromethane	1.349	50	32862	51.45	ug/L		99
4) Vinyl chloride	1.413	62	52431	53.65	ug/L	#	85
5) Bromomethane	1.648	94	18464	63.82	ug/L		92
6) Chloroethane	1.718	64	29892	46.74	ug/L		95
7) Trichlorofluoromethane	1.862	101	65436	60.63	ug/L		99
8) Ethyl Ether	2.066	59	45988	54.96	ug/L		98
9) Freon 113	2.199	101	41895	54.79	ug/L		94
10) Acrolein	2.210	56	52967	351.97	ug/L	#	66
11) Tert-Butyl alcohol	2.681	59	73843	1409.85	ug/L	#	47
12) 1,1-Dichloroethene	2.226	96	40889	49.33	ug/L		100
13) Iodomethane	2.355	142	57756	77.99	ug/L		96
14) Acetonitrile	2.499	40	264932	510.47	ug/L	#	1
15) Methylene chloride	2.611	84	51592	51.18	ug/L		93
16) Trans-1,2-dichloroethene	2.772	96	45007	49.93	ug/L		98
17) Isopropyl ether	3.109	45	201784	55.65	ug/L		100
18) 1,1-Dichloroethane	3.125	63	89679	55.88	ug/L		100
19) Acetone	2.317	43	41468	152.17	ug/L		92
20) Methyl Acetate	4.264	43	40331	70.32	ug/L	#	100
21) MTBE	2.756	73	141930	54.41	ug/L		100
22) Carbon disulfide	2.376	76	141319	55.88	ug/L		100
24) Acrylonitrile	2.847	53	86622	330.61	ug/L		97
25) Chloroprene	3.162	53	78717	51.28	ug/L		94
26) n-Heptane	4.446	71	40016m	51.08	ug/L		
27) 2,2-Dichloropropane	3.564	77	67505	51.50	ug/L	#	39
28) Cis-1,2-dichloroethene	3.590	96	51392	47.94	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	2.772	96	98618m	100.76 ug/L	
30) Propionitrile	3.745	54	75180	527.05 ug/L	96
31) Bromochloromethane	3.799	128	26281	50.49 ug/L	98
32) Tetrahydrofuran	3.622	72	12753	47.61 ug/L #	1
33) Chloroform	3.847	83	88657	48.77 ug/L	97
34) Cyclohexane	3.949	56	90147	55.87 ug/L	95
35) 1,1,1-Trichloroethane	3.970	97	72125	52.06 ug/L	94
36) Carbon tetrachloride	4.072	117	55509	43.74 ug/L	97
37) Methylcyclohexane	5.003	83	83979	54.52 ug/L	95
38) Isobutyl Alcohol	4.446	43	79106	1103.89 ug/L	89
41) 2-Butanone	3.628	43	67845	126.80 ug/L	97
42) 1,1-Dichloropropene	4.109	75	62267	51.69 ug/L	96
43) Vinyl Acetate	3.152	43	63412	48.06 ug/L	99
44) Benzene	4.291	78	194237	48.74 ug/L	100
45) 1,2-Dichloroethane	4.382	62	68558	54.46 ug/L #	86
46) Trichloroethene	4.890	95	48984	47.94 ug/L	92
47) 1,2-Dichloropropane	5.168	63	52501	50.66 ug/L	95
48) Methyl methacrylate	5.270	69	35694	51.91 ug/L	93
49) Dibromomethane	5.286	93	30832	48.98 ug/L	99
50) Bromodichloromethane	5.436	83	62929	47.21 ug/L	100
51) 2-Chloroethylvinyl ether	5.784	63	133955	192.70 ug/L	99
52) Cis-1,3-dichloropropene	5.917	75	73284	42.44 ug/L	99
54) Toluene	6.222	92	116501	53.53 ug/L	96
55) Trans-1,3-dichloropropene	6.575	75	67425	48.96 ug/L	99
56) Ethyl methacrylate	6.629	69	66438	51.53 ug/L	90
57) 1,1,2-Trichloroethane	6.779	83	39491	51.34 ug/L	93
59) 4-Methyl-2-pentanone	6.099	43	124616	90.16 ug/L #	92
60) 2-Hexanone	7.068	43	88216	93.10 ug/L	97
61) Tetrachloroethene	6.795	166	52394	50.16 ug/L	95
62) 1,3-Dichloropropane	6.977	76	81732	51.03 ug/L	96
63) Dibromochloromethane	7.191	129	51956	47.24 ug/L	100
64) 1,2-Dibromoethane	7.319	107	49258	49.55 ug/L	98
65) 1-Chlorohexane	7.790	91	73285	44.65 ug/L	97
66) Chlorobenzene	7.811	112	158977	48.97 ug/L	91
67) 1,1,1,2-Tetrachloroethane	7.908	131	58797	44.13 ug/L	94
68) Ethylbenzene	7.902	91	266736	48.11 ug/L	98
69) m,p-Xylene	8.020	106	220147	96.14 ug/L	88
70) o-Xylene	8.394	106	113298	50.19 ug/L	93
71) Xylene (Total)	8.020	106	335117m	148.01 ug/L	
72) Styrene	8.421	104	186280	49.11 ug/L	92
73) Bromoform	8.598	173	37234	42.69 ug/L	98
74) Isopropylbenzene	8.715	105	253471	50.55 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

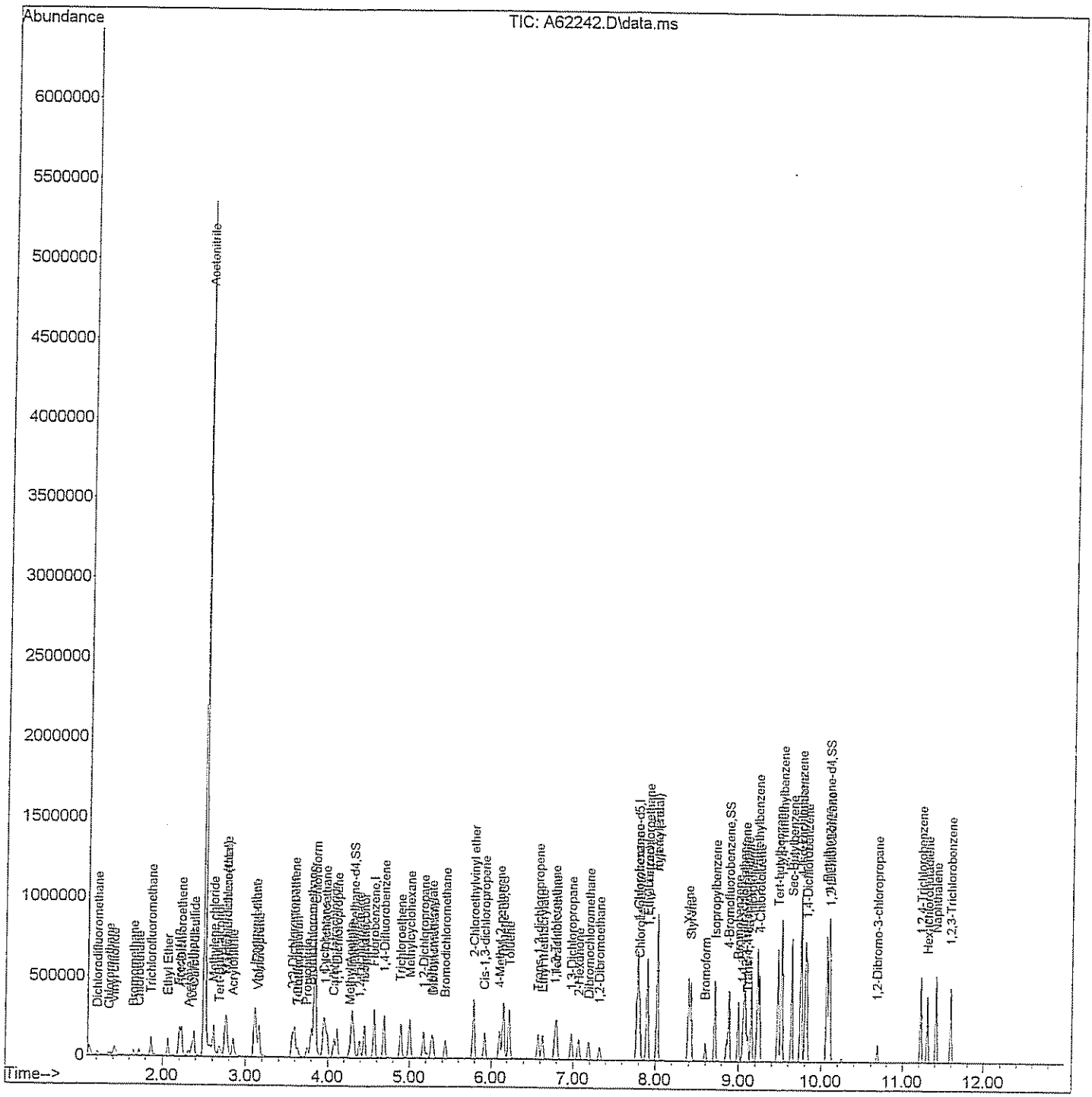
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	71889	50.18 ug/L	97
77) 1,1,2,2-Tetrachloroethane	9.047	83	76564	49.98 ug/L	97
78) 1,2,3-Trichloropropane	9.084	110	21658	47.38 ug/L	97
79) n-Propylbenzene	9.068	91	343014	50.50 ug/L	98
80) Trans-1,4-dichloro-2-b...	9.106	53	23461	53.90 ug/L #	25
81) 2-Chlorotoluene	9.149	126	75972	52.16 ug/L	88
82) 4-Chlorotoluene	9.250	126	78312	50.56 ug/L	94
83) 1,3,5-Trimethylbenzene	9.224	105	269919	51.31 ug/L	97
84) Tert-butylbenzene	9.470	119	245990	52.35 ug/L	96
86) 1,2,4-Trimethylbenzene	9.518	105	280364	50.10 ug/L	94
87) Sec-Butylbenzene	9.641	105	374344	51.45 ug/L	99
88) 1,3-Dichlorobenzene	9.748	146	161103	50.62 ug/L	98
89) 4-Isopropyltoluene	9.759	119	330147	52.88 ug/L	99
90) 1,4-Dichlorobenzene	9.823	146	165386	52.05 ug/L	97
92) 1,2-Dichlorobenzene	10.101	146	161017	52.66 ug/L	99
93) n-Butylbenzene	10.058	91	302933	51.22 ug/L	94
94) 1,2-Dibromo-3-chloropr...	10.679	75	17173	56.77 ug/L	85
95) 1,2,4-Trichlorobenzene	11.224	180	116881	55.89 ug/L	100
96) Hexachlorobutadiene	11.305	225	50107	53.89 ug/L	98
97) Naphthalene	11.412	128	311050	54.38 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	104452	55.87 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

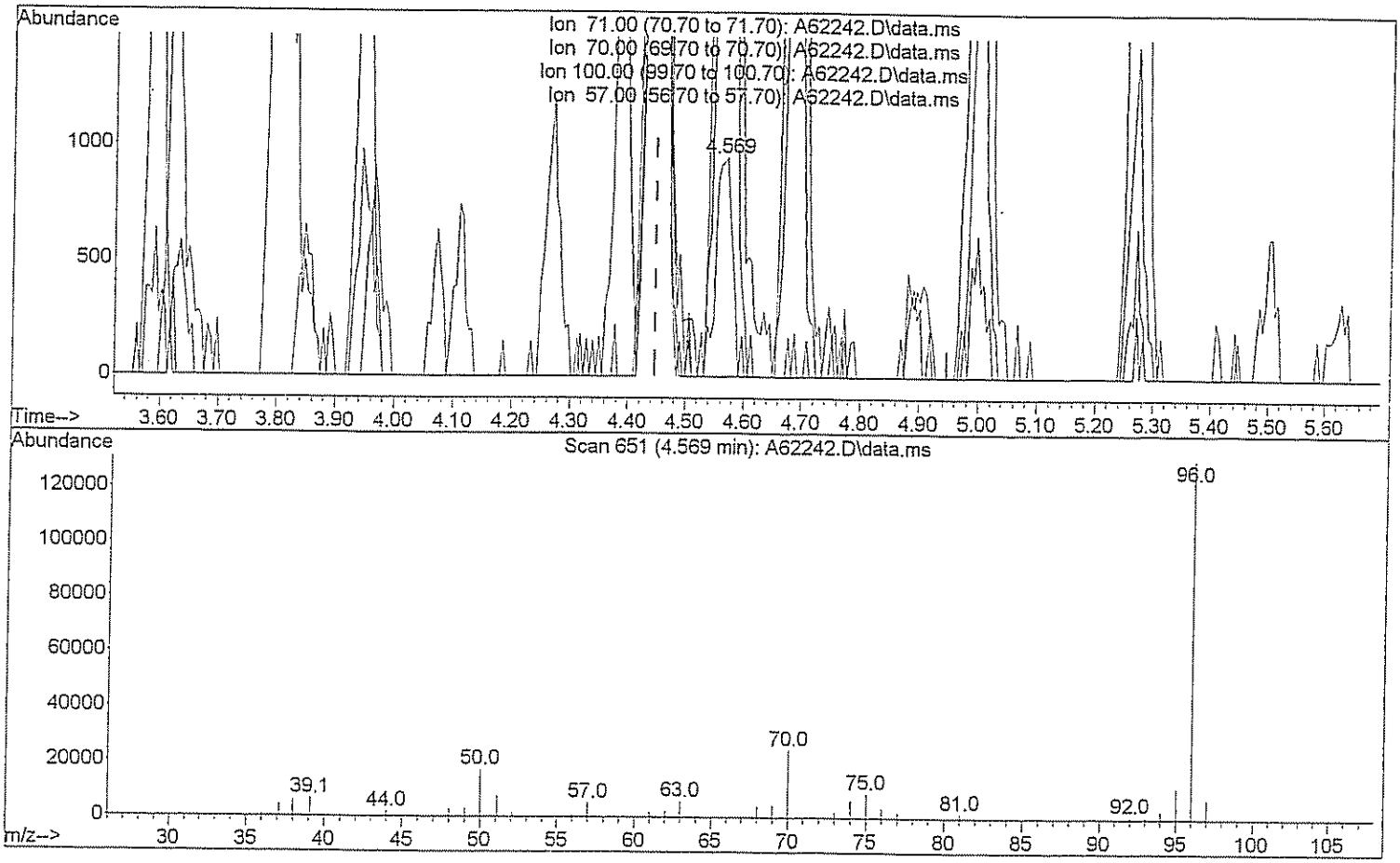
Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(26) n-Heptane (T)

4.569min (+0.122) 2.50 ug/L

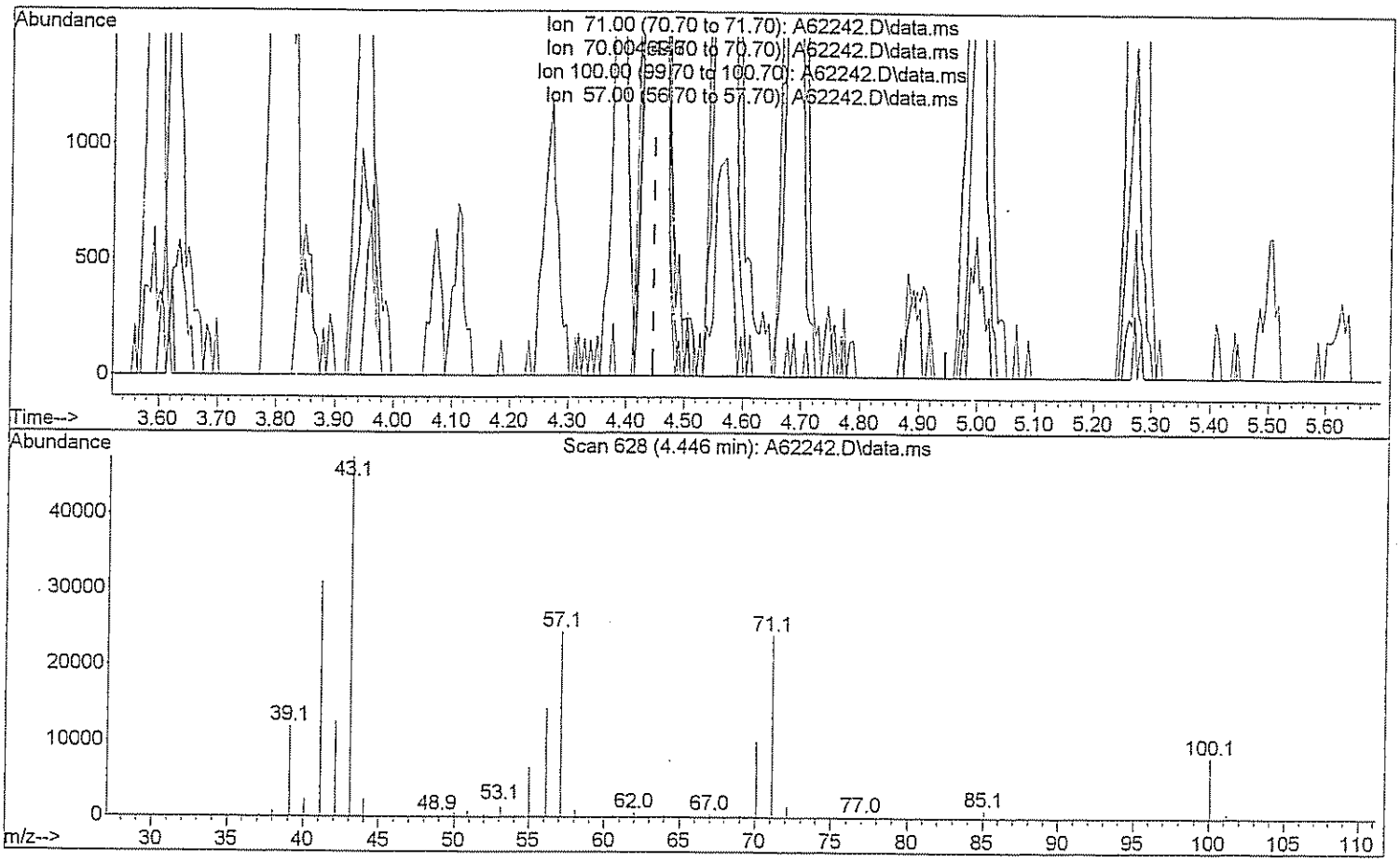
response 1961

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2134.68#
100.00	60.00	0.00#
57.00	34.00	496.69#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(26) n-Heptane (T)

4.446min (-0.001) 51.08 ug/L m DW 3/12/09

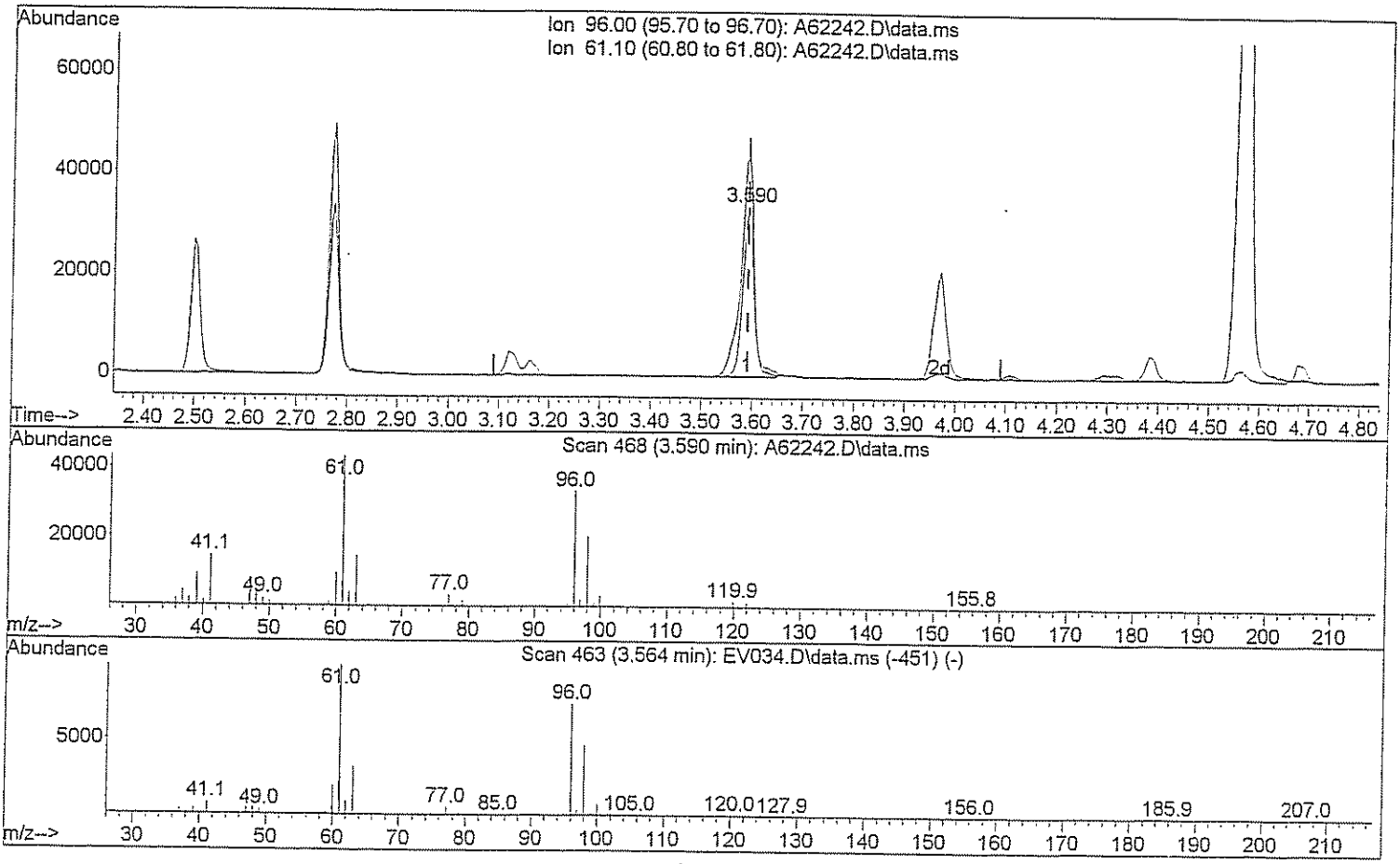
response 40016

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	104.61#
100.00	60.00	0.00#
57.00	34.00	24.34#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 52.51 ug/L

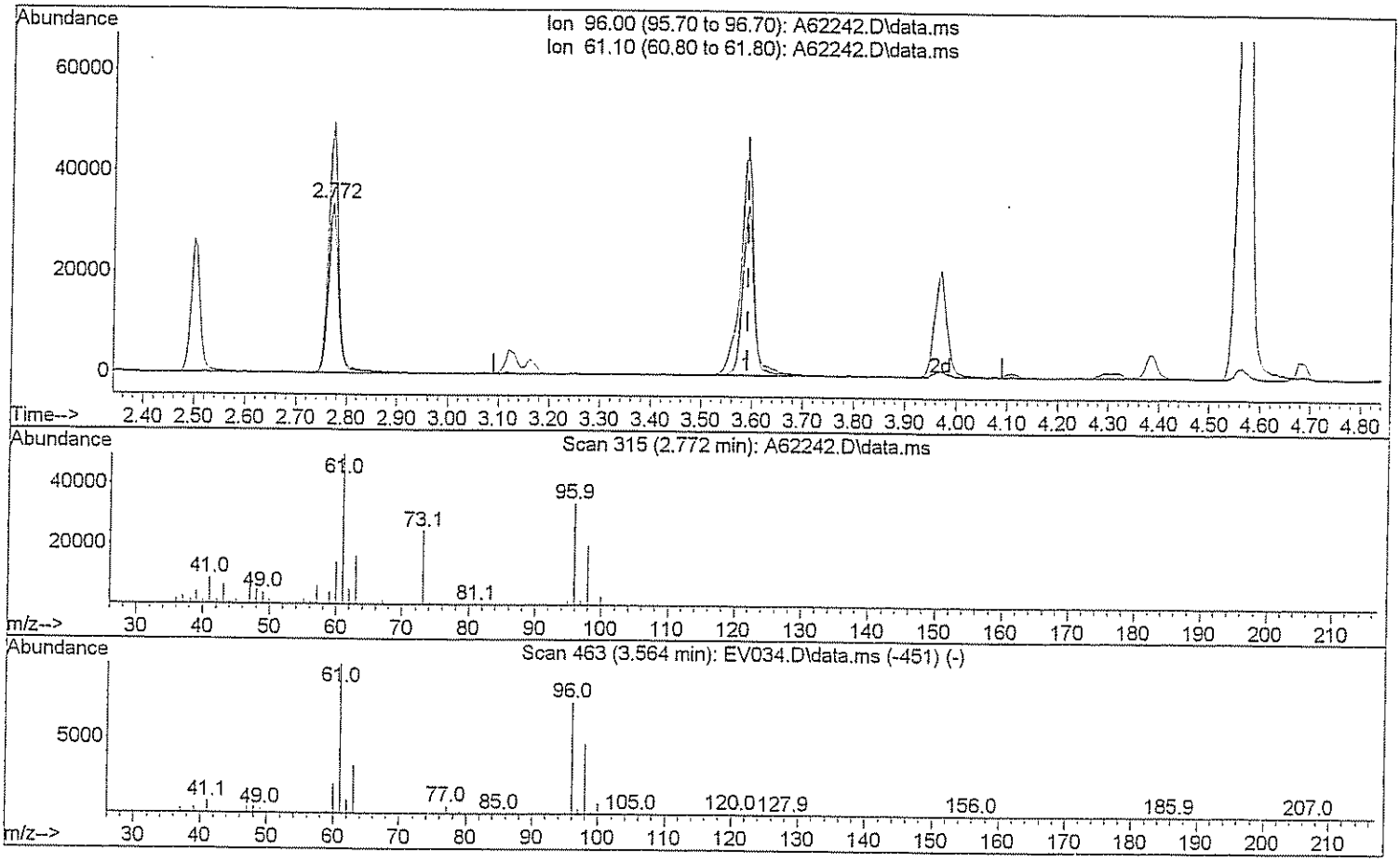
response 51392

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	158.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(29) 1,2-dichloroethene(total)

2.772min (-0.819) 100.76 ug/L m DW 3/12/09

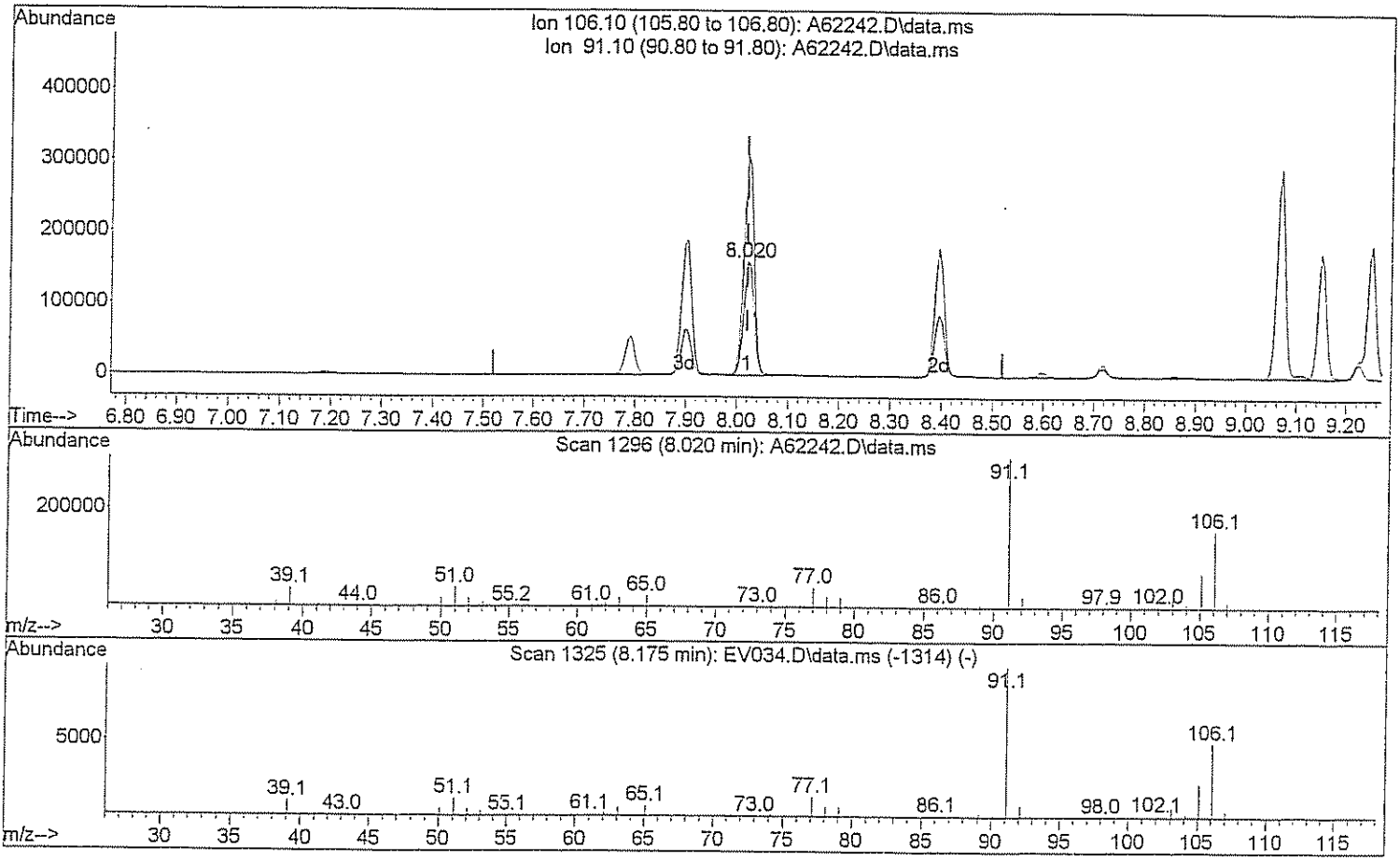
response 98618

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	82.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 97.23 ug/L

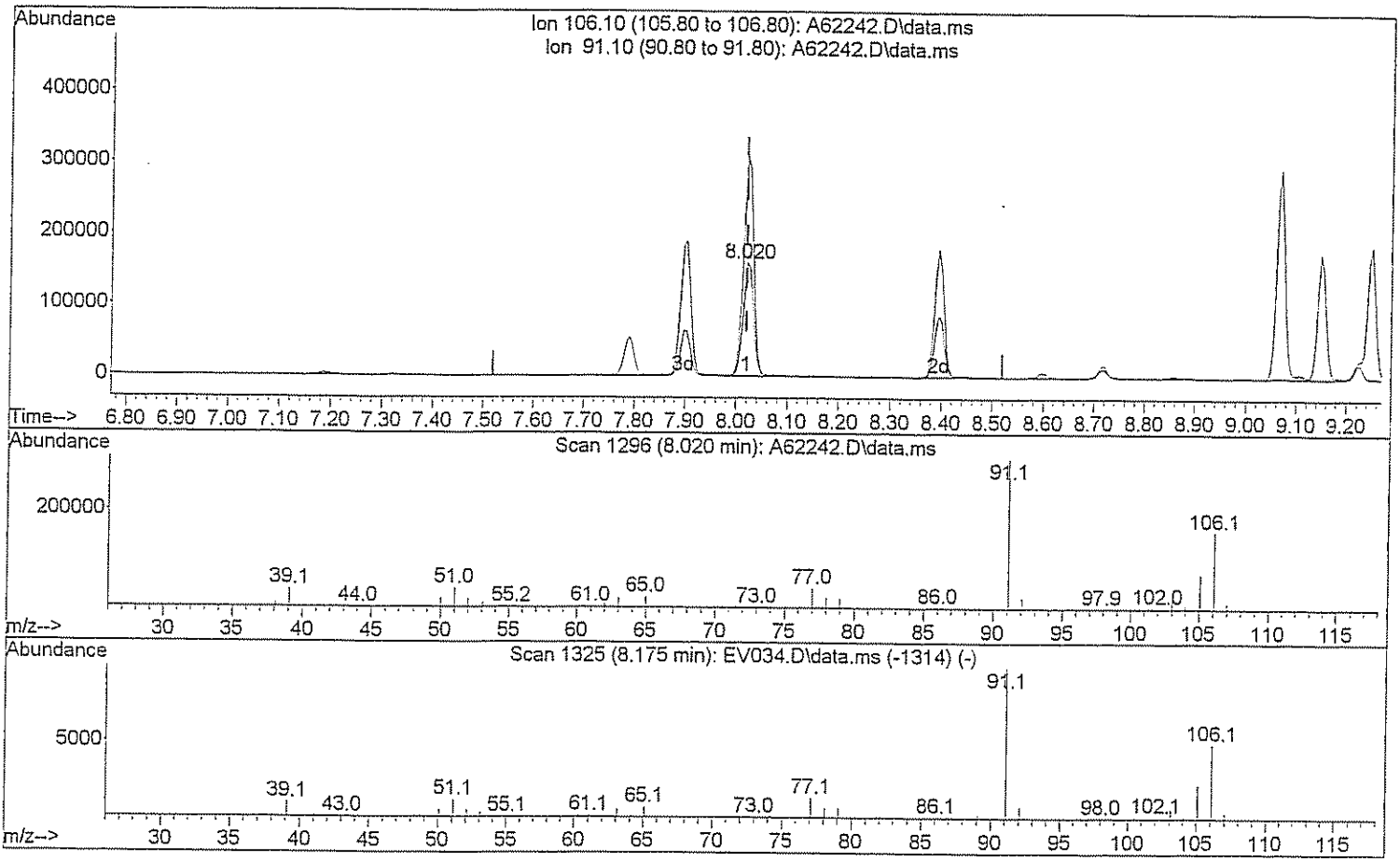
response 220147

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	190.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 148.01 ug/L m

response 335117

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.05#
0.00	0.00	0.00
0.00	0.00	0.00

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 08:06:42 2009
Response Via : Initial Calibration

Calibration Files
1 =A62207.D 5 =A62209.D 20 =A62211.D 50 =A62213.D 100 =A62215.D
200 =A62219.D

		Compound	1	5	20	50	100	200	Avg	SD	%R
1)	I	Fluorobenzene	----------ISTD----------								
2)		Dichlorodifluo...	0.067	0.085	0.103	0.098		0.090	0.089	15.40	
3)		Chloromethane	0.188	0.181	0.173	0.145	0.159	0.199	0.174	11.27	
4)		Vinyl chloride	0.220	0.190	0.192	0.211	0.214	0.214	0.207	6.19	
5)		Bromomethane	0.218	0.069	0.099	0.078	0.114		0.115	~~51.80~~ r^2=0.9[illegible]	
6)		Chloroethane		0.144	0.142	0.142	0.141	0.157	0.145	4.69	
7)		Trichlorofluor...	0.154	0.245	0.282	0.290	0.307		0.256	~~23.94~~ r^2=0.[illegible]	
8)		Ethyl Ether	0.163	0.157	0.165	0.189	0.188	0.206	0.178	10.84	
9)		Freon 113	0.153	0.135	0.174	0.165		0.165	0.158	9.58	
10)		Acrolein		0.037	0.031	0.036	0.035	0.040	0.036	9.22	
11)		Tert-Butyl alc...	0.016	0.021	0.018	0.026	0.021		0.020	18.36	
12)		1,1-Dichloroet...	0.177	0.162	0.167	0.188	0.193	0.202	0.182	8.55	
13)		Iodomethane	0.457	0.111	0.200	0.091	0.247	0.161	0.211	63.20	
14)		Acetonitrile	0.079	0.075	0.093	0.124	0.139	0.138	0.108	~~26.99~~ r^2=0.9[illegible]	
15)		Methylene chlo...	0.375	0.222	0.213	0.224	0.235	0.243	0.252	~~24.26~~ r^2=0.9[illegible]	
16)		Trans-1,2-dich...	0.209	0.186	0.197	0.221	0.230		0.209	8.57	
17)		Isopropyl ether	0.794	0.717	0.779	0.874	0.894		0.812	8.93	
18)		1,1-Dichloroet...	0.325	0.334	0.368	0.411	0.431		0.374	12.44	
19)		Acetone	0.151	0.086	0.070	0.091	0.084	0.086	0.095	~~30.23~~ r^2=0.9[illegible]	
20)		Methyl Acetate	0.225	0.217	0.185	0.256		0.048	0.186	~~43.60~~ r^2=0.9[illegible]	
21)		MTBE	0.473	0.510	0.527	0.610	0.604		0.545	11.02	
22)		Carbon disulfide	1.024	0.568	0.589	0.610	0.643	0.638	0.679	~~25.30~~ r^2=0.9[illegible]	
23)		Allyl Chloride							0.000	-1.00	
24)		Acrylonitrile		0.059	0.058	0.067	0.062	0.071	0.063	8.81	
25)		Chloroprene	0.352	0.318	0.337	0.354	0.398	0.383	0.357	8.23	
26)	T	n-Heptane	0.229	0.156	0.188	0.173	0.184	0.166	0.183	14.14	
27)		2,2-Dichloropr...	0.284	0.268		0.334	0.340	0.338	0.313	10.86	
28)		Cis-1,2-dichlo...	0.280	0.214		0.253	0.263	0.256	0.253	9.47	
29)		1,2-dichloroet...	0.366		0.223	0.242	0.248	0.260	0.268	21.04	
30)		Propionitrile	0.028	0.029	0.028	0.035	0.031	0.036	0.031	11.14	
31)		Bromochloromet...	0.088	0.091	0.107	0.119	0.122	0.129	0.109	15.51	
32)		Tetrahydrofuran	0.047	0.049	0.049	0.055	0.049	0.059	0.051	9.52	
33)		Chloroform	0.515	0.347	0.353	0.399	0.446	0.498	0.426	16.82	
34)		Cyclohexane	0.560	0.302	0.371	0.358	0.395	0.363	0.392	~~22.47~~ r^2=0.99[illegible]	
35)		1,1,1-Trichlor...	0.289	0.274	0.307	0.333	0.343	0.363	0.318	10.68	
36)		Carbon tetrach...	0.218	0.240	0.265	0.290	0.310	0.313	0.272	14.18	
37)		Methacrylonitrile	0.141		0.144	0.175	0.176	0.213	0.170	17.12	
38)		Methylcyclohexane	0.360	0.292	0.354	0.333	0.373	0.318	0.338	8.82	
39)		Isobutyl Alcohol	0.011	0.014	0.017	0.016		0.015	0.015	15.42	
40)	SS	1,2-Dichloroet...	0.258	0.262	0.263	0.265	0.265	0.282	0.266	3.13	
41)		1,4-Difluorobenzene	----------ISTD----------								
42)		2-Butanone	0.150	0.152	0.146	0.185	0.166	0.178	0.163	9.84	

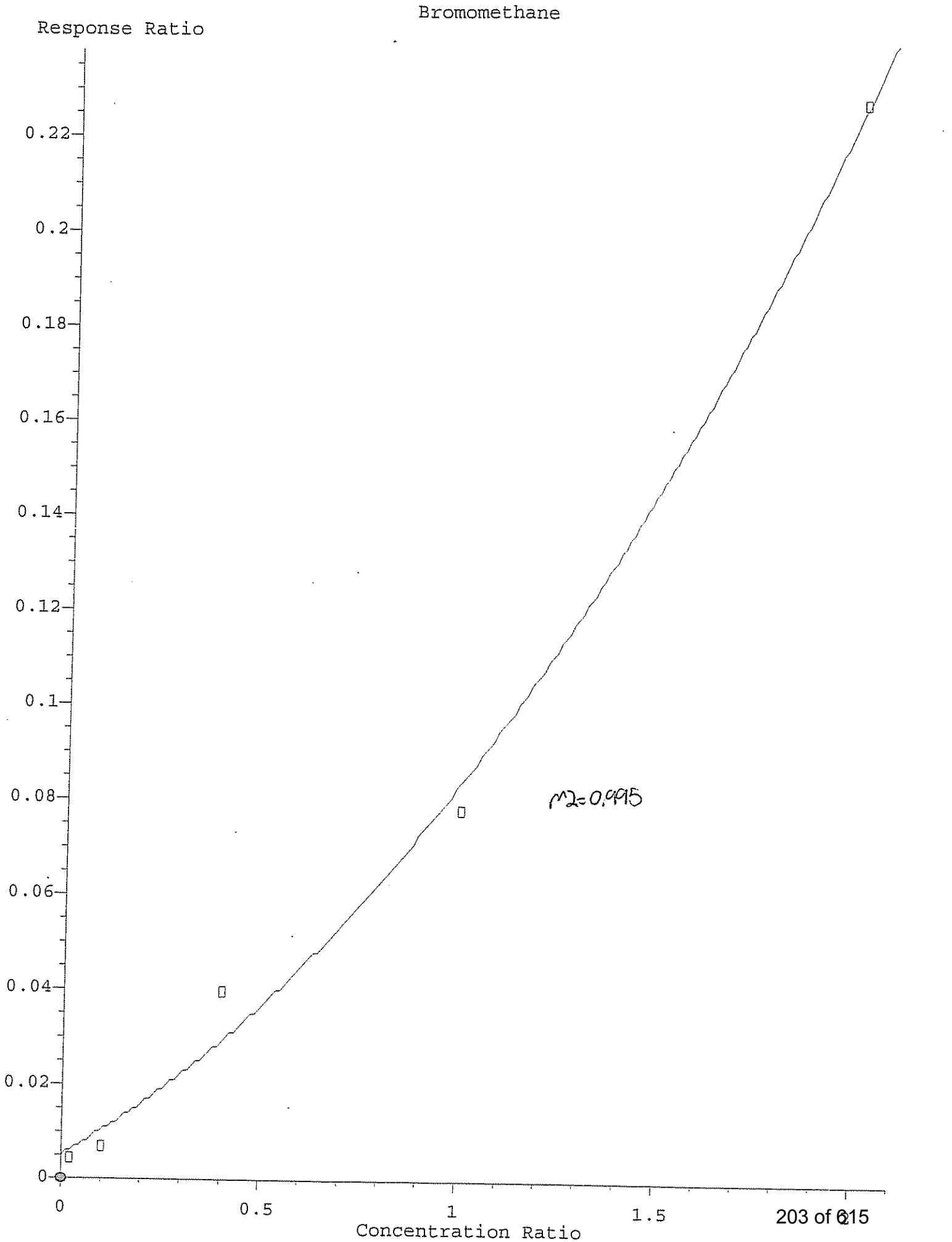
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

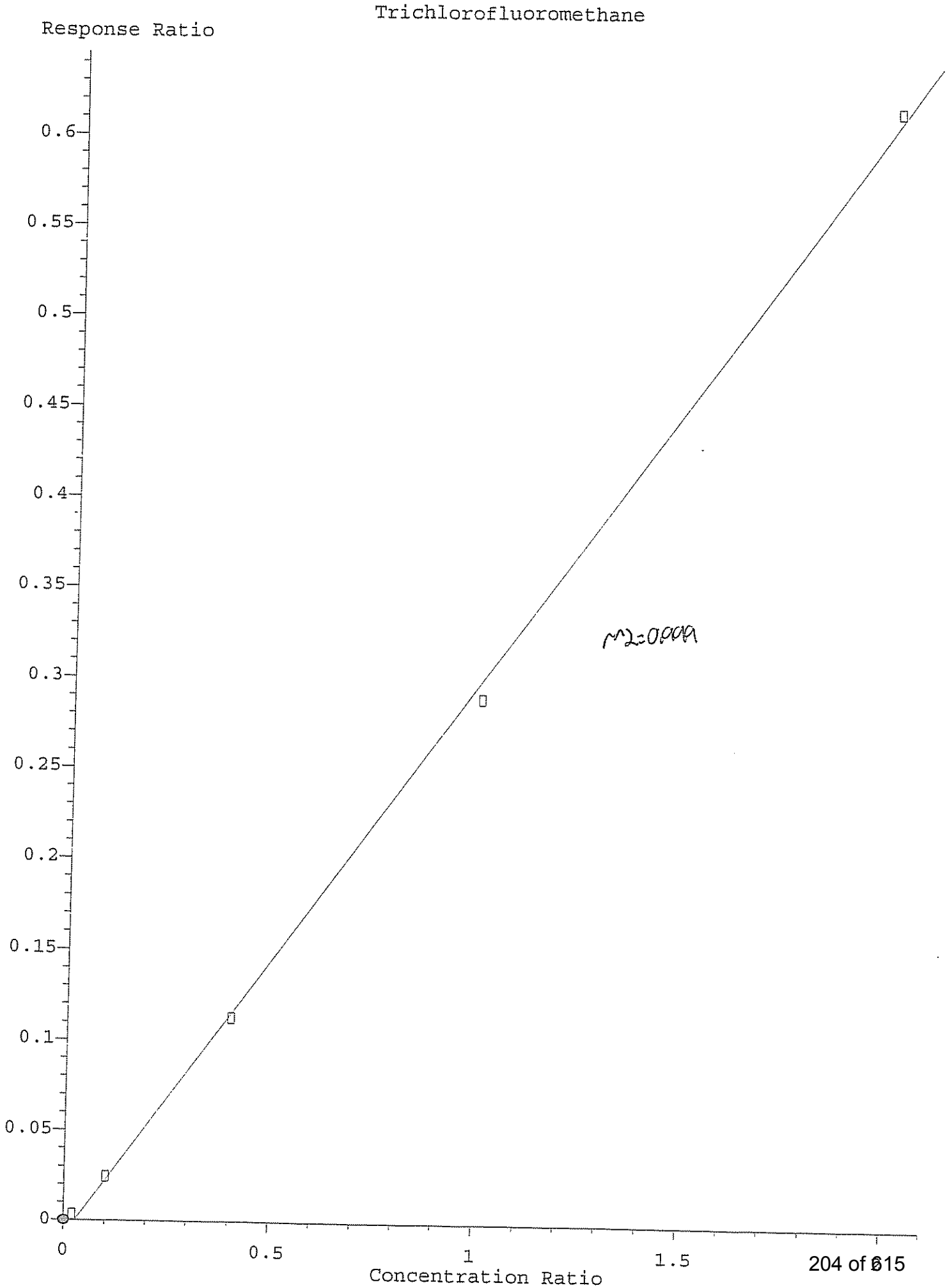
43)		1,1-Dichloropr...	0.270	0.305	0.331	0.370	0.377	0.381	0.339	13.34
44)		Vinyl Acetate	0.369	0.357		0.401	0.394	0.386	0.381	4.81
45)		Benzene	0.924	0.932	1.027	1.118	1.156	1.192	1.058	10.86
46)		1,2-Dichloroet...	0.277	0.295	0.324	0.359	0.360	0.376	0.332	12.02
47)		Trichloroethene	0.269	0.243	0.263	0.278	0.289	0.289	0.272	6.46
48)		1,2-Dichloropr...	0.226	0.230	0.263	0.298	0.305	0.305	0.271	13.65
49)		Methyl methacr...	0.215	0.205	0.171	0.201	0.185	0.202	0.196	8.01
50)		Dibromomethane	0.171	0.151	0.147	0.176	0.172	0.184	0.167	8.78
51)		Bromodichlorom...	0.338	0.315	0.334	0.376	0.376	0.385	0.354	8.07
52)		2-Chloroethylv...	0.027	0.143	0.149	0.165	0.057	0.106	0.108	51.45
53)		Cis-1,3-dichlo...	0.340	0.361		0.469	0.471	0.491	0.427	16.46
54)	SS	Toluene-d8	1.125	1.133	1.141	1.158	1.177	1.218	1.159	2.99
55)		Toluene	0.589	0.599	0.664	0.740	0.763	0.807	0.694	13.02
56)		Trans-1,3-dich...	0.273	0.355		0.433	0.417	0.455	0.387	18.95
57)		Ethyl methacry...	0.347	0.304	0.324	0.365	0.358	0.385	0.347	8.47
58)		1,1,2-Trichlor...	0.183	0.186		0.220	0.217	0.234	0.208	10.71
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)		4-Methyl-2-pen...	0.272	0.284	0.284	0.321	0.289	0.300	0.292	5.85
61)		2-Hexanone	0.175	0.219	0.196	0.238	0.214	0.220	0.210	10.29
62)		Tetrachloroethene	0.228	0.256	0.285	0.305	0.324	0.332	0.288	13.99
63)		1,3-Dichloropr...	0.361	0.399	0.395	0.451	0.441	0.448	0.416	8.74
64)		Dibromochlorom...	0.245	0.291	0.291	0.322	0.324	0.334	0.301	10.93
65)		1,2-Dibromoethane	0.246	0.242	0.248	0.270	0.266	0.271	0.257	5.13
66)		1-Chlorohexane	0.470	0.400	0.409	0.437	0.441	0.437	0.432	5.79
67)		Chlorobenzene	0.748	0.753	0.821	0.906	0.935	0.925	0.848	10.10
68)		1,1,1,2-Tetrac...	0.248	0.259	0.292	0.328	0.342	0.354	0.304	14.65
69)		Ethylbenzene	1.318	1.300	1.394	1.507	1.582	1.607	1.451	9.15
70)		m,p-Xylene	0.510	0.513	0.560	0.618	0.648		0.570	10.86
71)		o-Xylene	0.551	0.505	0.566	0.601	0.624	0.620	0.578	7.95
72)		Xylene (Total)	0.524	0.511	0.564	0.613	0.641	0.662	0.586	10.68
73)		Styrene	0.827	0.857	0.930	1.024	1.062	1.060	0.960	10.80
74)		Bromoform	0.149	0.175	0.176	0.212	0.200	0.209	0.187	13.15
75)		Isopropylbenzene	1.052	1.108	1.196	1.299	1.367	1.346	1.228	10.60
76)	SS	4-Bromofluorob...	0.468	0.466	0.474	0.477	0.477	0.465	0.471	1.16
77)		Bromobenzene	0.300	0.296	0.326	0.356	0.370	0.370	0.336	10.07
78)		1,1,2,2-Tetrac...	0.317	0.314	0.308	0.356	0.339	0.347	0.330	6.00
79)		1,2,3-Trichlor...	0.091	0.103	0.091	0.105	0.098	0.101	0.098	6.04
80)		n-Propylbenzene	1.522	1.538	1.655	1.792	1.853	1.840	1.700	8.79
81)		Trans-1,4-dich...	0.066	0.099	0.064	0.109	0.074	0.088	0.083	~~21.93~~ M 20.987
82)		2-Chlorotoluene	0.338	0.323	0.352	0.384	0.388	0.378	0.361	7.43
83)		4-Chlorotoluene	0.354	0.335	0.356	0.391	0.407	0.403	0.374	7.96
84)		1,3,5-Trimethy...	1.021	1.048	1.163	1.281	1.369	1.359	1.207	12.65
85)		Tert-butylbenzene	0.855	0.919	1.011	1.122	1.196	1.189	1.049	13.66
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.051	1.091	1.184	1.318	1.418	1.460	1.254	13.63
88)		Sec-Butylbenzene	1.363	1.379	1.554	1.726	1.836	1.785	1.607	12.83
89)		1,3-Dichlorobe...	0.581	0.583	0.663	0.740	0.804	0.864	0.706	16.56
90)		4-Isopropyltol...	1.162	1.185	1.338	1.507	1.641		1.367	15.11
91)		1,4-Dichlorobe...	0.581	0.624	0.679	0.749	0.800	0.815	0.708	13.52
92)	SS	1,2-Dichlorobe...	0.439	0.440	0.457	0.465	0.487	0.486	0.462	4.56
93)		1,2-Dichlorobe...	0.614	0.556		0.688	0.756	0.756	0.674	13.10
94)		n-Butylbenzene	1.300	1.191	1.253	1.396	1.500	1.454	1.349	8.94
95)		1,2-Dibromo-3-...	0.051	0.056	0.051	0.062	0.057	0.063	0.057	9.21
96)		1,2,4-Trichlor...	0.405	0.335	0.363	0.417	0.452	0.481	0.409	13.24

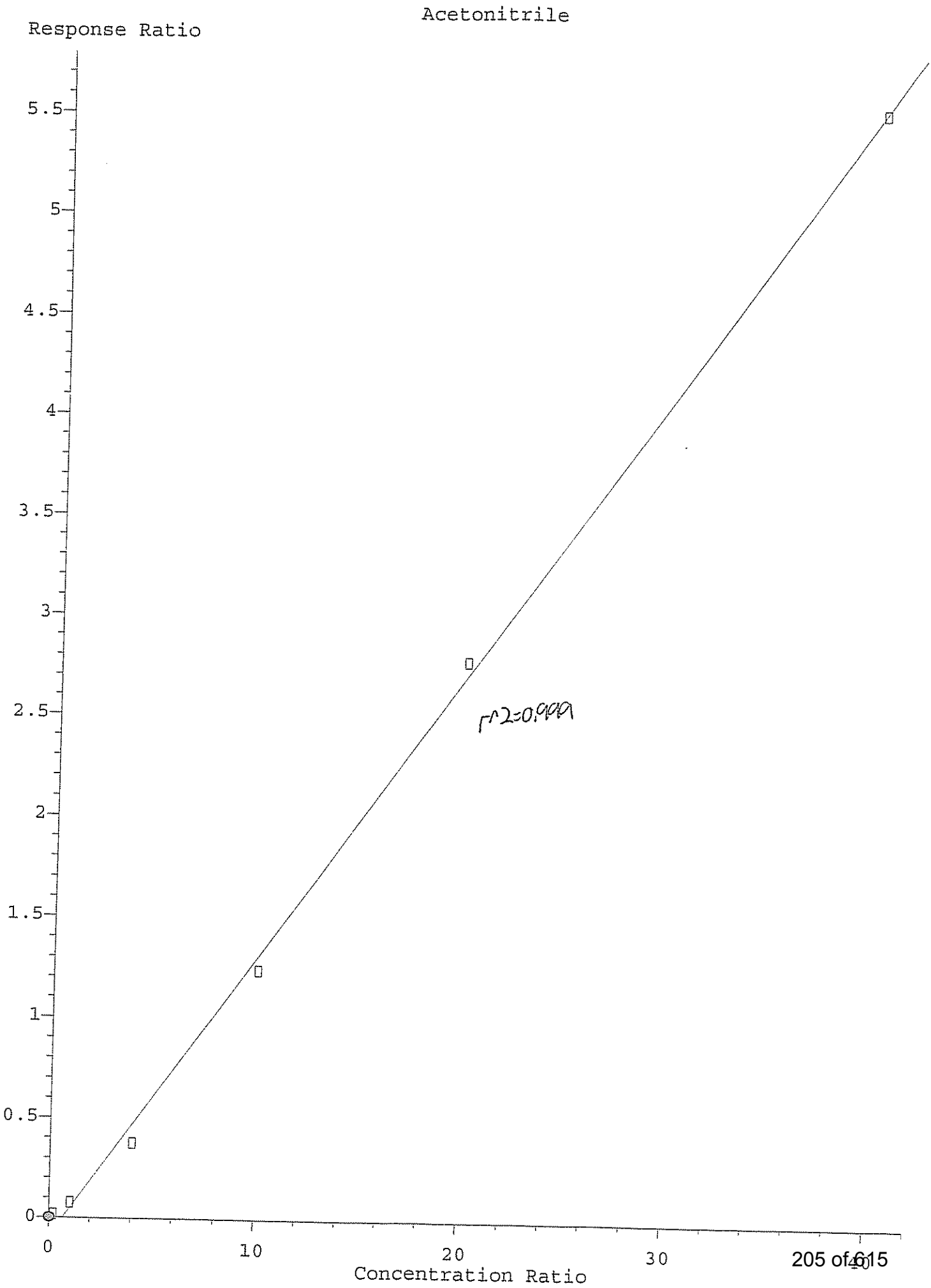
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

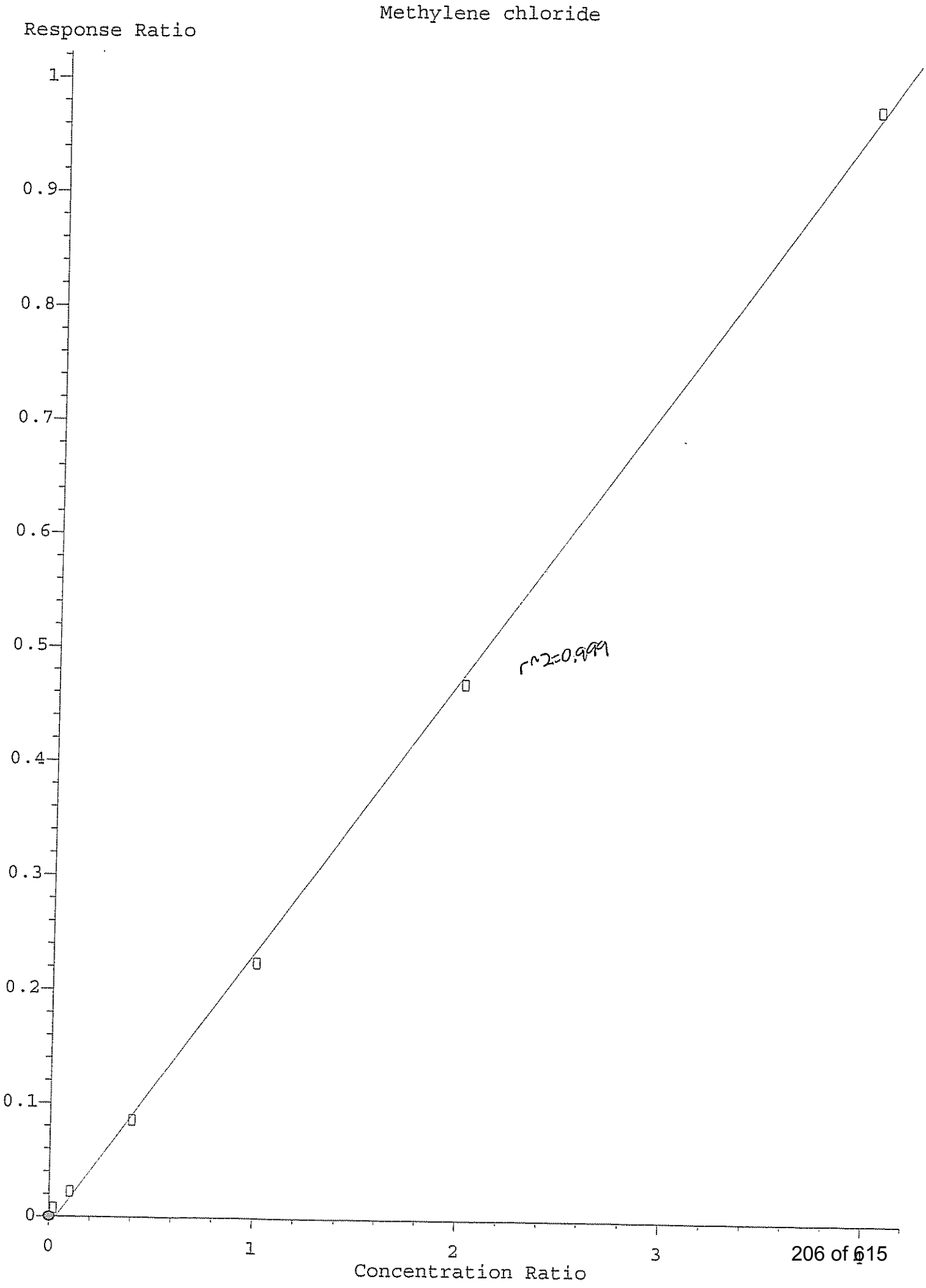
97)	Hexachlorobuta...	0.192	0.145	0.170	0.197	0.215	0.224	0.190	15.45
98)	Naphthalene	0.824	0.898	0.877	1.102	1.033	1.113	0.975	12.73
99)	1,2,3-Trichlor...	0.323	0.289	0.308	0.362	0.371	0.400	0.342	12.35

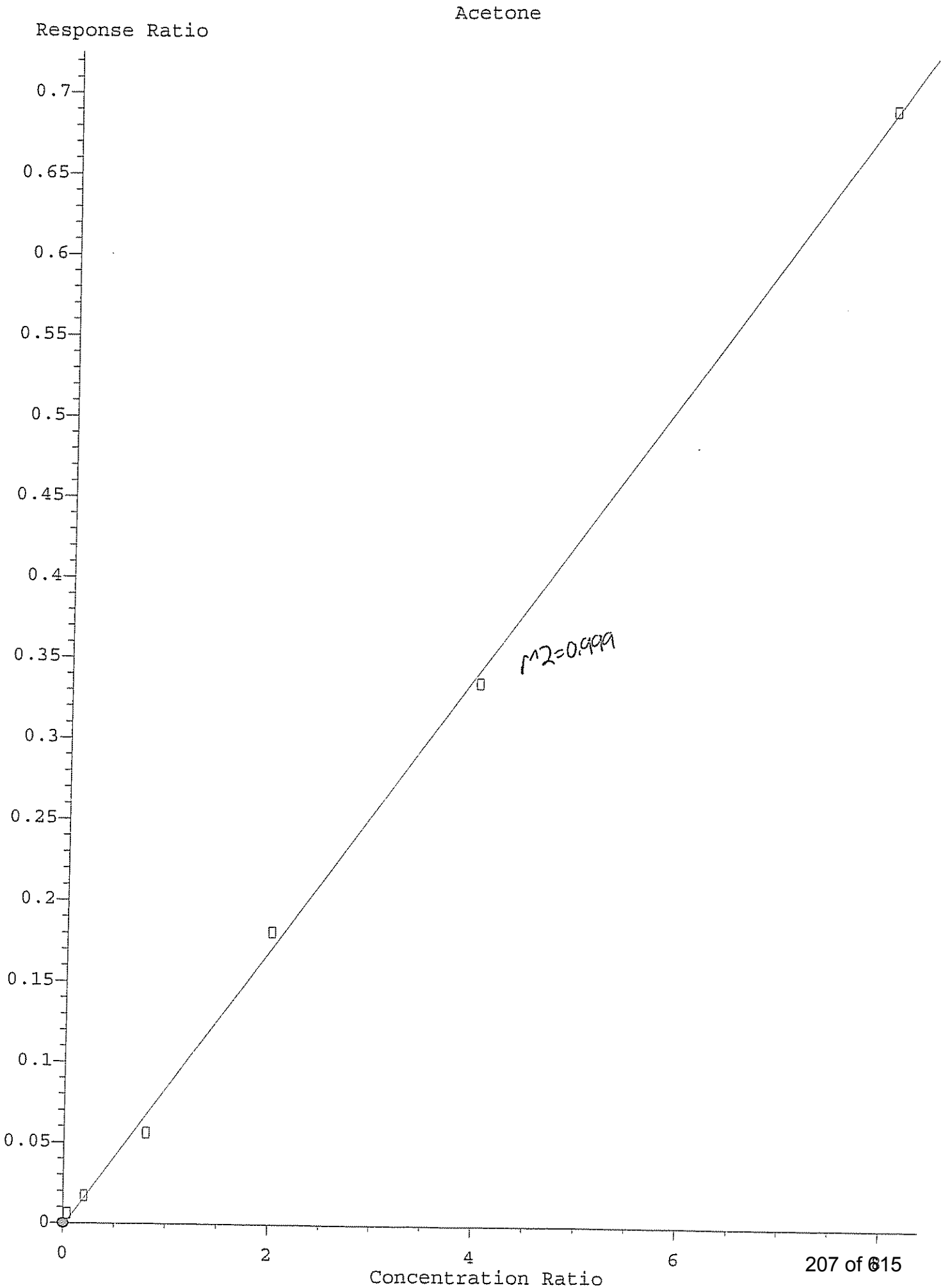
(#) = Out of Range

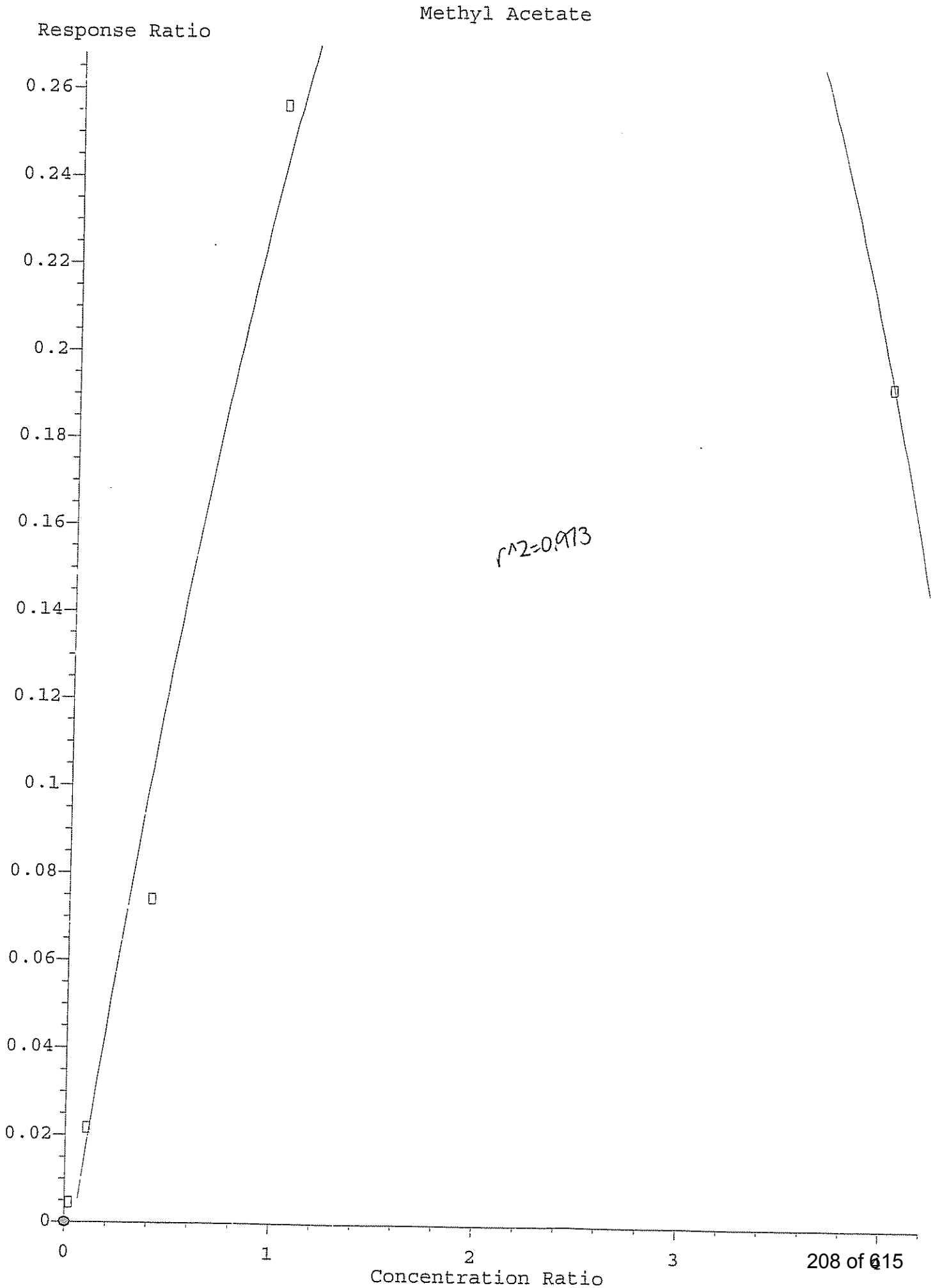

Bromomethane
Response Ratio
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.5
1
1.5
Concentration Ratio
r^2=0.995

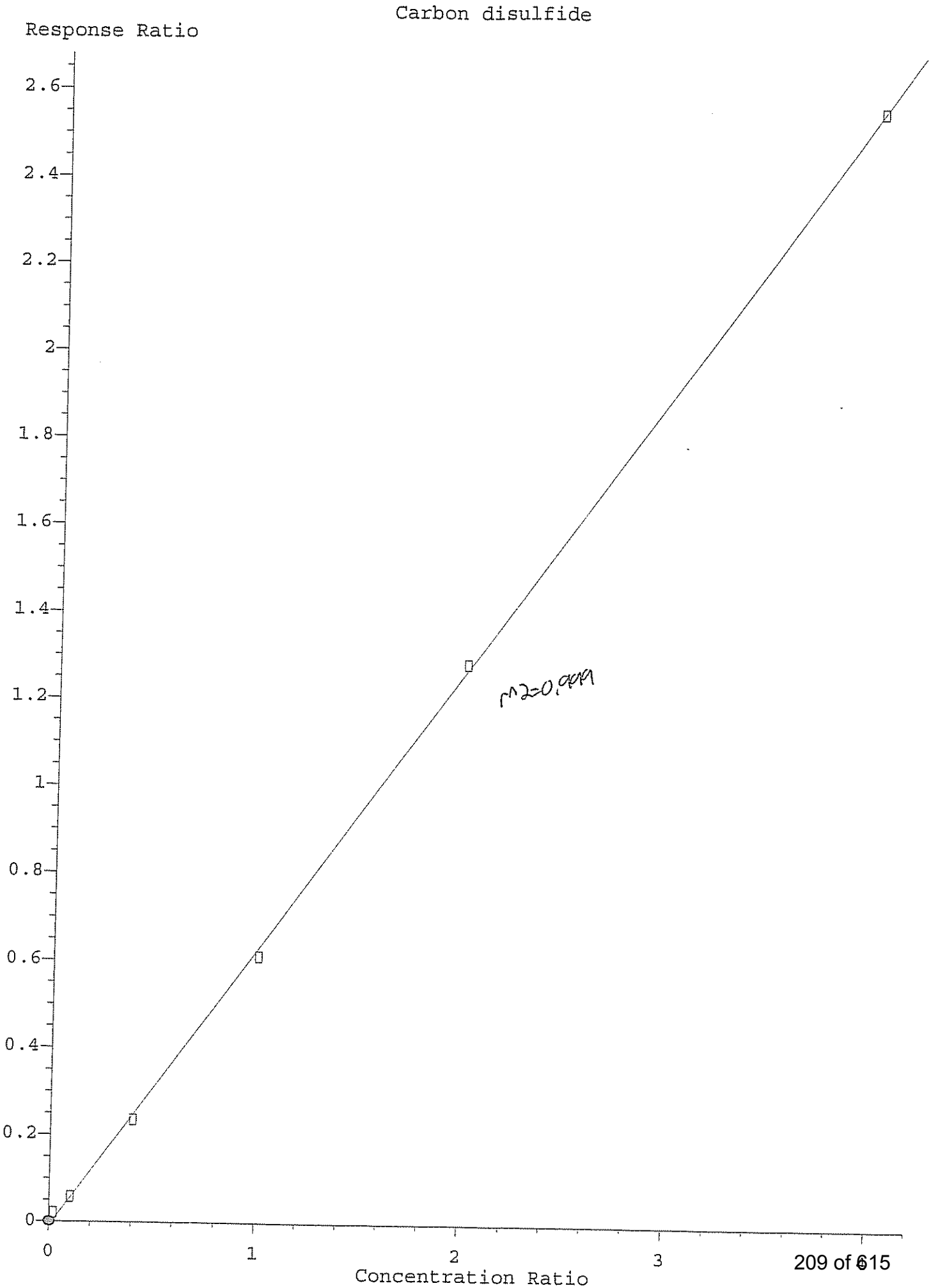

Trichlorofluoromethane
Response Ratio
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
0.5
1
1.5
Concentration Ratio
r^2=0.999

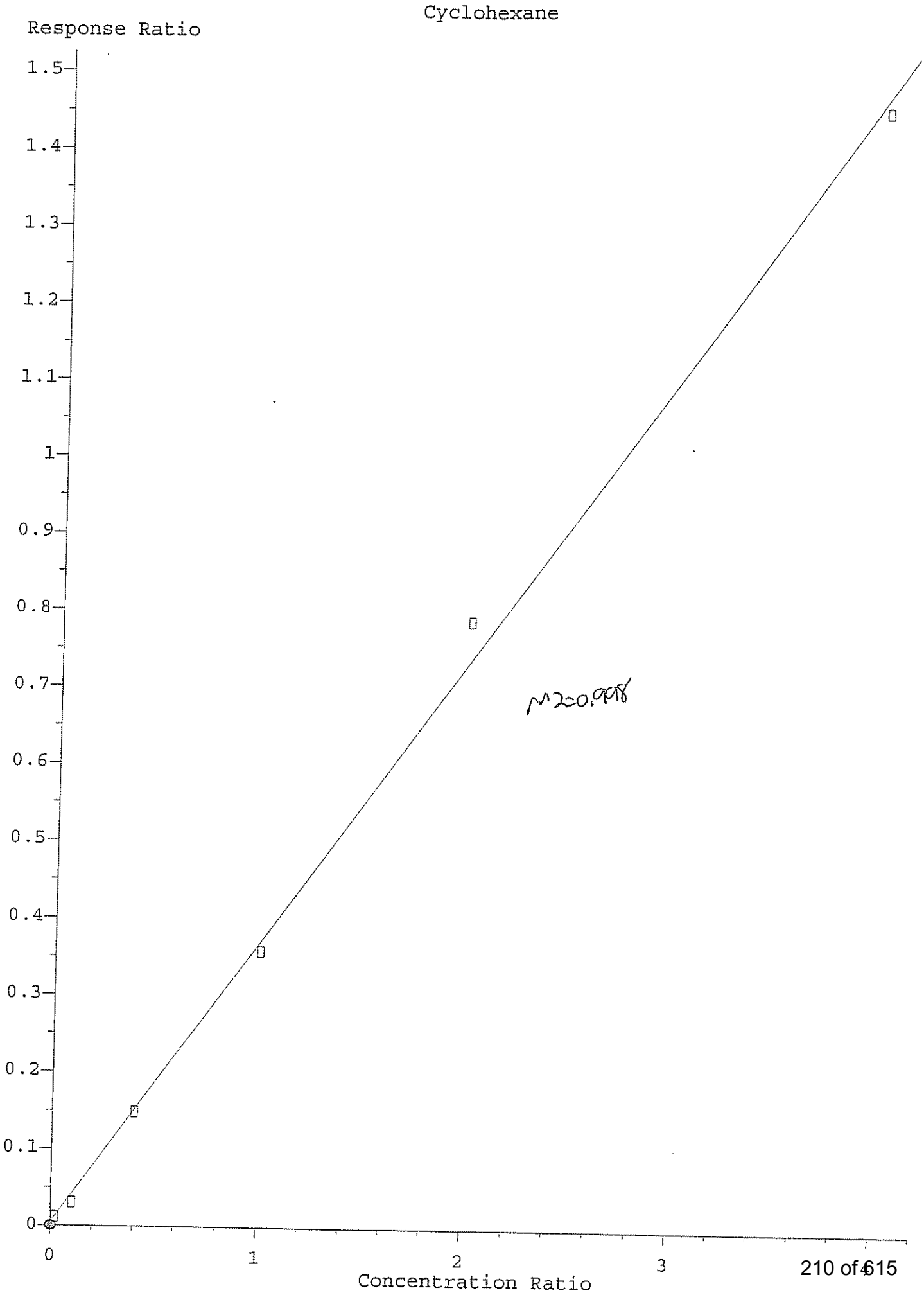

Acetonitrile
Response Ratio
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
r^2=0.999
0
10
20
30
40
Concentration Ratio

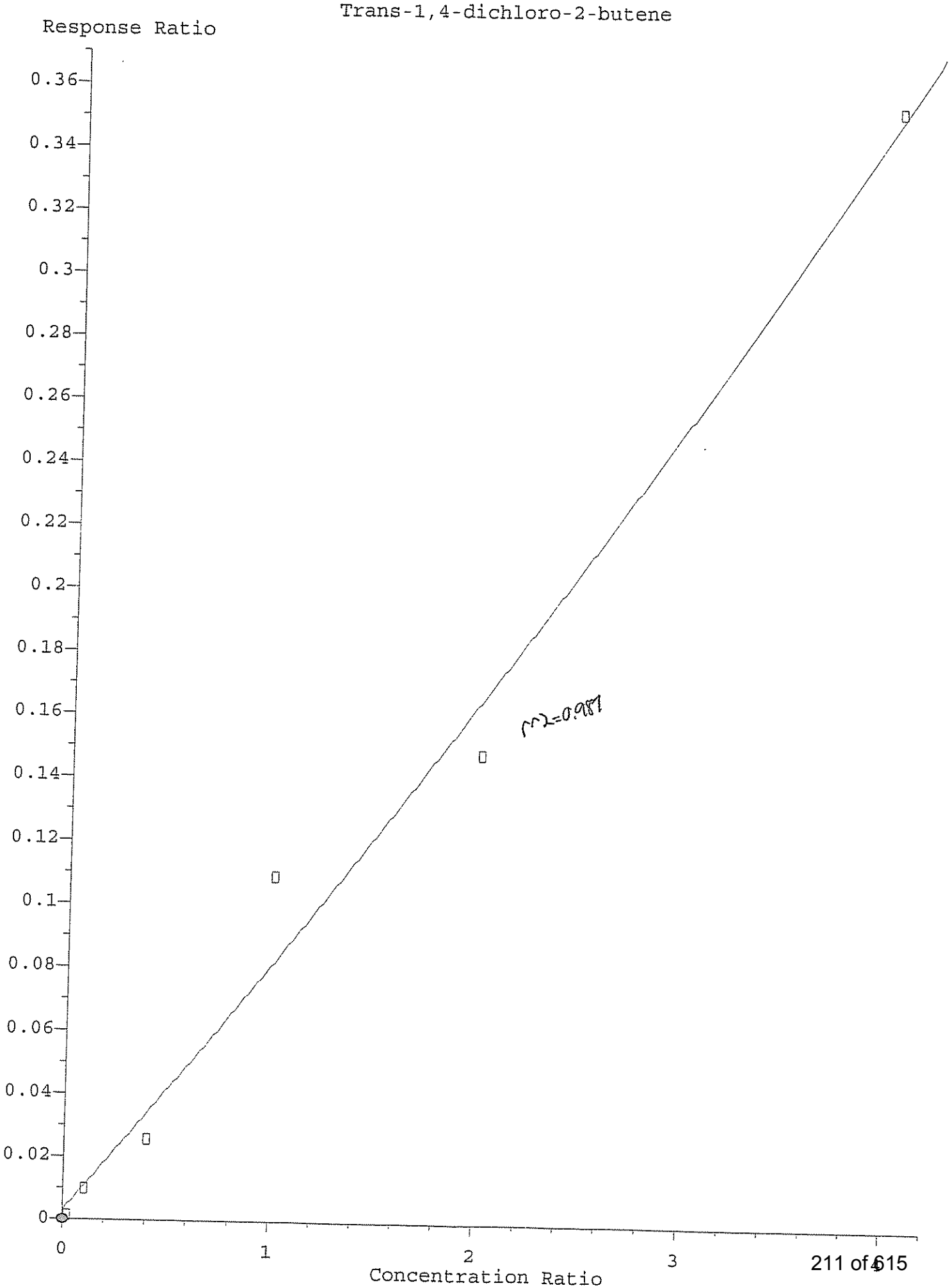

Methylene chloride
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
Concentration Ratio
r^2=0.999


Acetone
Response Ratio
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
r^2=0.999
0
2
4
6
Concentration Ratio


Methyl Acetate
Response Ratio
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
r^2=0.913
0
1
2
3
Concentration Ratio


Carbon disulfide
Response Ratio
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1
2
3
Concentration Ratio
r^2=0.9999


Cyclohexane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
Concentration Ratio
r^2=0.998


Trans-1,4-dichloro-2-butene
Response Ratio
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
1
2
3
Concentration Ratio
r^2=0.987

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.559	96	653851	50.00 ug/L	0.00
41) 1,4-Difluorobenzene	4.682	114	545045	50.00 ug/L	0.00
59) Chlorobenzene-d5	7.779	117	494605	50.00 ug/L	0.00
System Monitoring Compounds					
40) 1,2-Dichloroethane-d4	4.307	65	168508	48.22 ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.44%		
54) Toluene-d8	6.142	98	612948	48.25 ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.50%		
76) 4-Bromofluorobenzene	8.881	95	231662	49.63 ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.26%		
92) 1,2-Dichlorobenzene-d4	10.085	152	217113	47.01 ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 94.02%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.188	85	879	0.72 ug/L	98
3) Chloromethane	1.317	50	2454m	1.09 ug/L	
4) Vinyl chloride	1.402	62	2881	1.08 ug/L #	44
5) Bromomethane	1.622	94	2845m	2.42 ug/L	
6) Chloroethane	1.285	64	313549	165.07 ug/L #	53
7) Trichlorofluoromethane	1.846	101	2014	0.55 ug/L	91
8) Ethyl Ether	2.050	59	2126	0.90 ug/L	96
9) Freon 113	2.184	101	2000	0.96 ug/L	92
10) Acrolein	2.189	56	2058	4.40 ug/L #	74
11) Tert-Butyl alcohol	2.670	59	4154	14.85 ug/L #	47
12) 1,1-Dichloroethene	2.210	96	2320	0.97 ug/L #	69
13) Iodomethane	2.339	142	5982	2.82 ug/L	99
14) Acetonitrile	2.483	40	10288	6.90 ug/L #	1
15) Methylene chloride	2.595	84	4904	1.65 ug/L	77
16) Trans-1,2-dichloroethene	2.756	96	2729	1.00 ug/L #	61
17) Isopropyl ether	3.093	45	10388	0.97 ug/L	96
18) 1,1-Dichloroethane	3.114	63	4250	0.84 ug/L	94
19) Acetone	2.296	43	3961	3.63 ug/L	95
20) Methyl Acetate	4.259	43	2948	1.24 ug/L #	100
21) MTBE	2.740	73	6186	0.84 ug/L	100
22) Carbon disulfide	2.360	76	13396	1.68 ug/L	100
24) Acrylonitrile	2.831	53	3734	4.51 ug/L	91
25) Chloroprene	3.146	53	4598	0.98 ug/L	92
26) n-Heptane	4.436	71	2999m	1.32 ug/L	
27) 2,2-Dichloropropane	3.548	77	3711	0.89 ug/L #	40
28) Cis-1,2-dichloroethene	3.580	96	3658	1.13 ug/L #	70

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	9570m	3.01 ug/L	
30) Propionitrile	3.735	54	3668	8.80 ug/L #	89
31) Bromochloromethane	3.783	128	1151	0.78 ug/L	98
32) Tetrahydrofuran	3.617	72	609	0.89 ug/L	85
33) Chloroform	3.837	83	6730	1.26 ug/L	95
34) Cyclohexane	3.938	56	7325	1.56 ug/L #	89
35) 1,1,1-Trichloroethane	3.960	97	3774	0.89 ug/L	87
36) Carbon tetrachloride	4.072	117	2845	0.77 ug/L	85
37) Methacrylonitrile	3.826	41	18476	8.37 ug/L #	37
38) Methylcyclohexane	4.997	83	4705	1.08 ug/L #	81
39) Isobutyl Alcohol	4.259	43	2948	14.35 ug/L	100
42) 2-Butanone	3.612	43	3280	1.82 ug/L	98
43) 1,1-Dichloropropene	4.099	75	2939	0.76 ug/L #	84
44) Vinyl Acetate	3.141	43	4019m	0.96 ug/L	
45) Benzene	4.286	78	10074	0.85 ug/L	100
46) 1,2-Dichloroethane	4.377	62	3017	0.81 ug/L #	80
47) Trichloroethene	4.885	95	2932	0.99 ug/L	86
48) 1,2-Dichloropropane	5.169	63	2461	0.81 ug/L	97
49) Methyl methacrylate	5.270	69	2343	1.12 ug/L	80
50) Dibromomethane	5.281	93	1866	1.03 ug/L	92
51) Bromodichloromethane	5.431	83	3684	0.95 ug/L #	99
52) 2-Chloroethylvinyl ether	5.779	63	1158	0.86 ug/L #	80
53) Cis-1,3-dichloropropene	5.918	75	3707	0.76 ug/L	93
55) Toluene	6.217	92	6417	0.82 ug/L	97
56) Trans-1,3-dichloropropene	6.570	75	2980	0.66 ug/L #	89
57) Ethyl methacrylate	6.618	69	3778	1.00 ug/L	96
58) 1,1,2-Trichloroethane	6.774	83	1999	0.86 ug/L	93
60) 4-Methyl-2-pentanone	6.099	43	5390	1.84 ug/L #	85
61) 2-Hexanone	7.068	43	3471	1.61 ug/L	98
62) Tetrachloroethene	6.790	166	2253	0.76 ug/L	97
63) 1,3-Dichloropropane	6.977	76	3571	0.85 ug/L	97
64) Dibromochloromethane	7.185	129	2423	0.78 ug/L	88
65) 1,2-Dibromoethane	7.319	107	2434	0.95 ug/L	89
66) 1-Chlorohexane	7.790	91	4651	1.11 ug/L #	30
67) Chlorobenzene	7.811	112	7395	0.86 ug/L	93
68) 1,1,1,2-Tetrachloroethane	7.908	131	2449	0.79 ug/L #	18
69) Ethylbenzene	7.897	91	13042	0.89 ug/L	96
70) m,p-Xylene	8.020	106	10091	1.74 ug/L	92
71) o-Xylene	8.395	106	5451	0.95 ug/L	83
72) Xylene (Total)	8.020	106	15541m	2.63 ug/L	
73) Styrene	8.421	104	8177	0.84 ug/L	96
74) Bromoform	8.598	173	1471	0.77 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

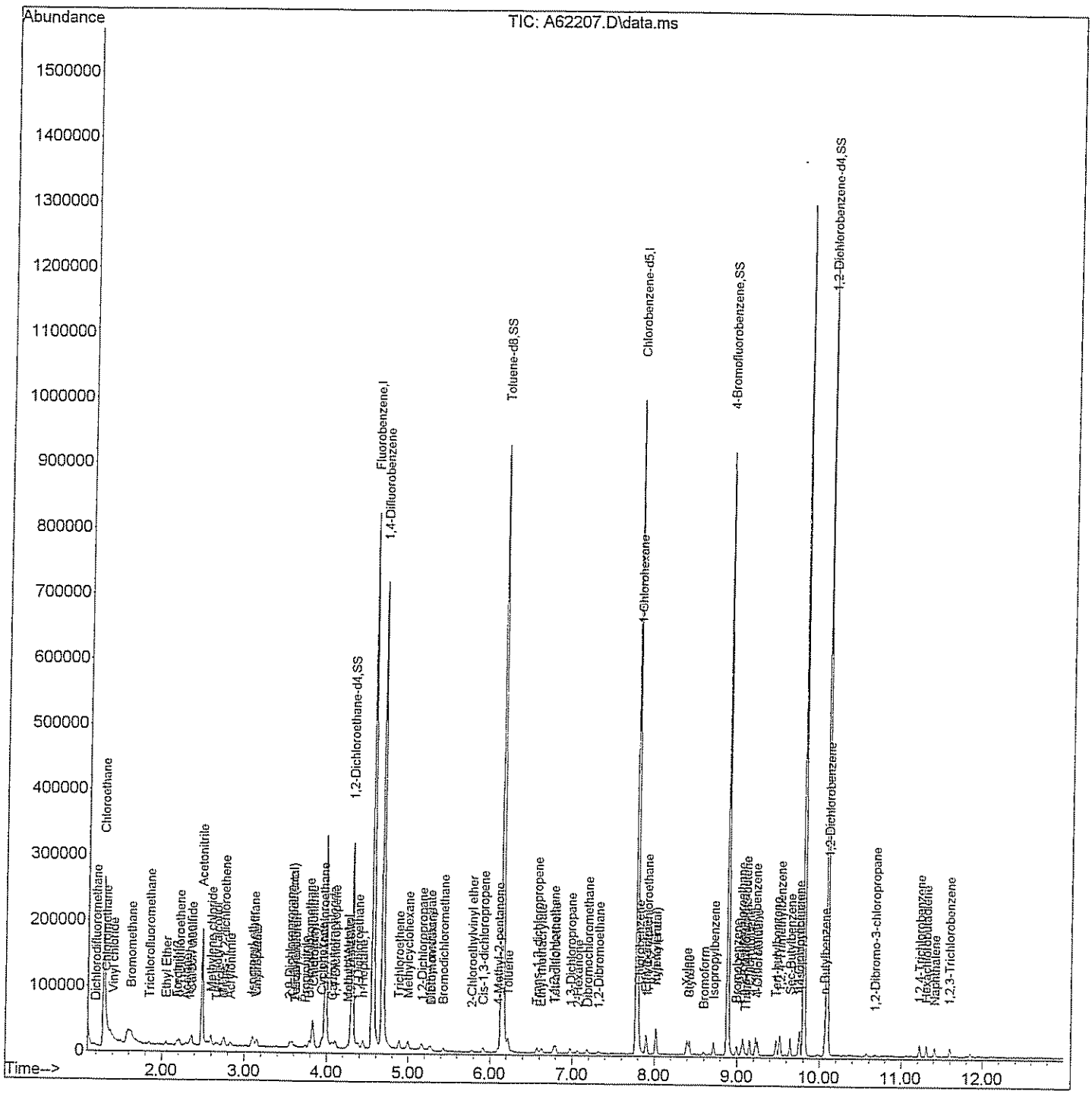
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.716	105	10411	0.83 ug/L	99
77) Bromobenzene	8.994	156	2968	0.87 ug/L	95
78) 1,1,2,2-Tetrachloroethane	9.047	83	3138m	0.95 ug/L	
79) 1,2,3-Trichloropropane	9.085	110	898	0.91 ug/L #	82
80) n-Propylbenzene	9.069	91	15058	0.88 ug/L	100
81) Trans-1,4-dichloro-2-b...	9.106	53	656	0.72 ug/L #	23
82) 2-Chlorotoluene	9.149	126	3342	0.93 ug/L	87
83) 4-Chlorotoluene	9.245	126	3499	0.93 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	10102	0.82 ug/L	92
85) Tert-butylbenzene	9.470	119	8456	0.79 ug/L	94
87) 1,2,4-Trimethylbenzene	9.518	105	10397	0.81 ug/L	92
88) Sec-Butylbenzene	9.641	105	13481	0.82 ug/L	100
89) 1,3-Dichlorobenzene	9.743	146	5746	0.80 ug/L	94
90) 4-Isopropyltoluene	9.759	119	11496	0.82 ug/L	95
91) 1,4-Dichlorobenzene	9.743	146	5746	0.79 ug/L	95
93) 1,2-Dichlorobenzene	10.101	146	6074m	0.89 ug/L	
94) n-Butylbenzene	10.058	91	12855	0.96 ug/L	100
95) 1,2-Dibromo-3-chloropr...	10.679	75	501	0.88 ug/L	95
96) 1,2,4-Trichlorobenzene	11.225	180	4004	0.99 ug/L	98
97) Hexachlorobutadiene	11.305	225	1901	1.01 ug/L	98
98) Naphthalene	11.412	128	8153	0.82 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	3193	0.93 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

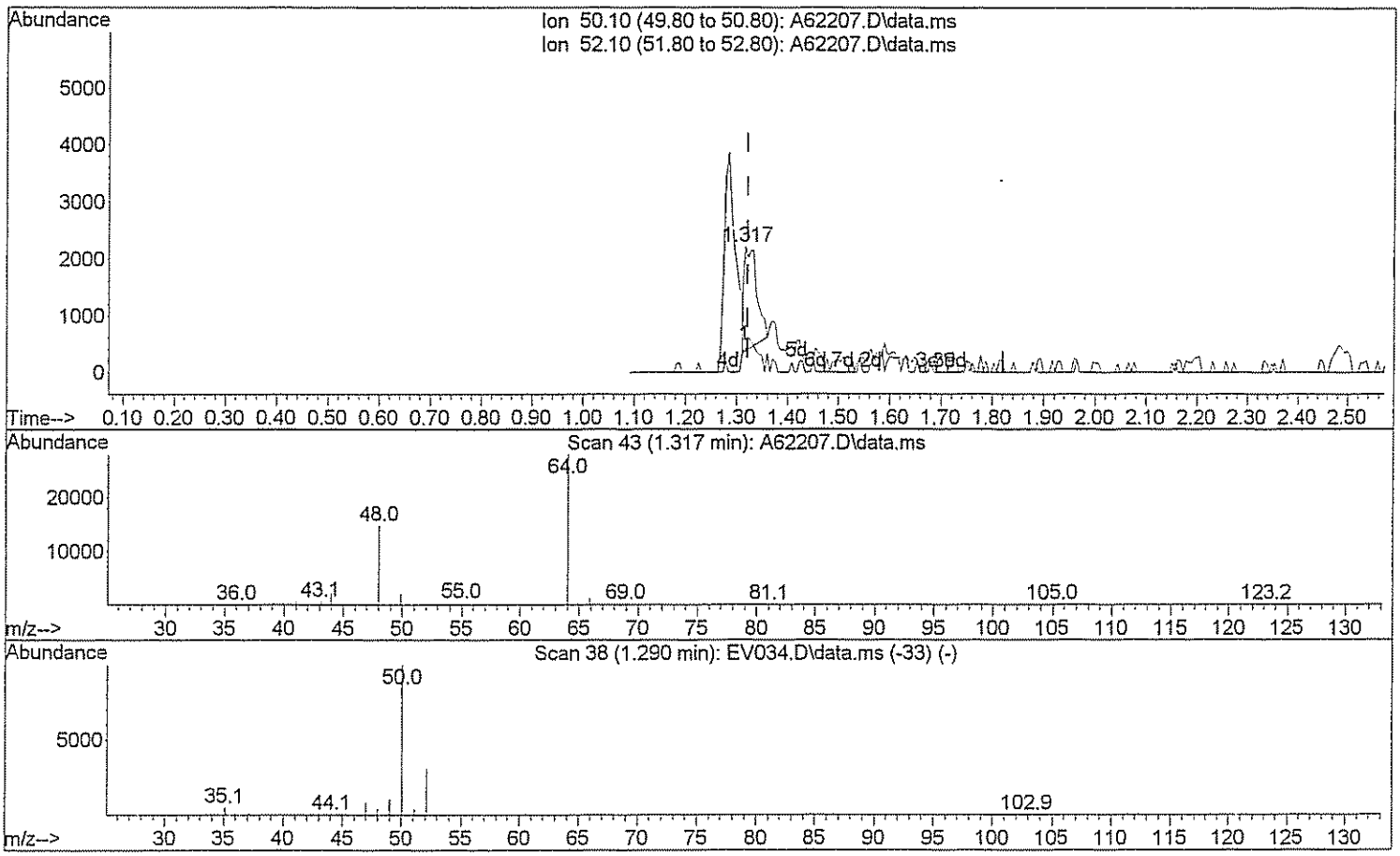
Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(3) Chloromethane

1.317min (-0.005) 1.32 ug/L

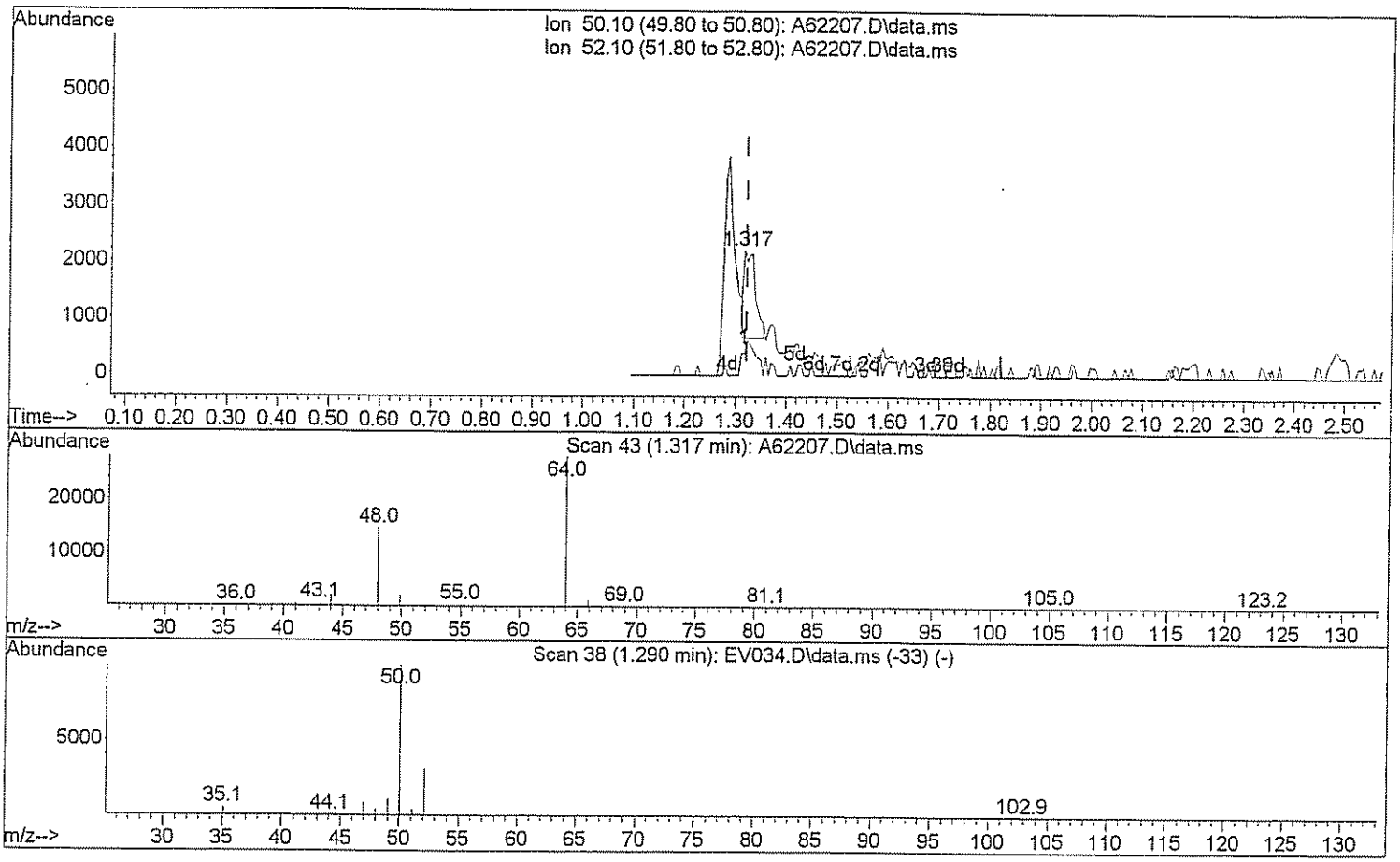
response 2970

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	35.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(3) Chloromethane

1.317min (-0.005) 1.09 ug/L m DW 3/17/09

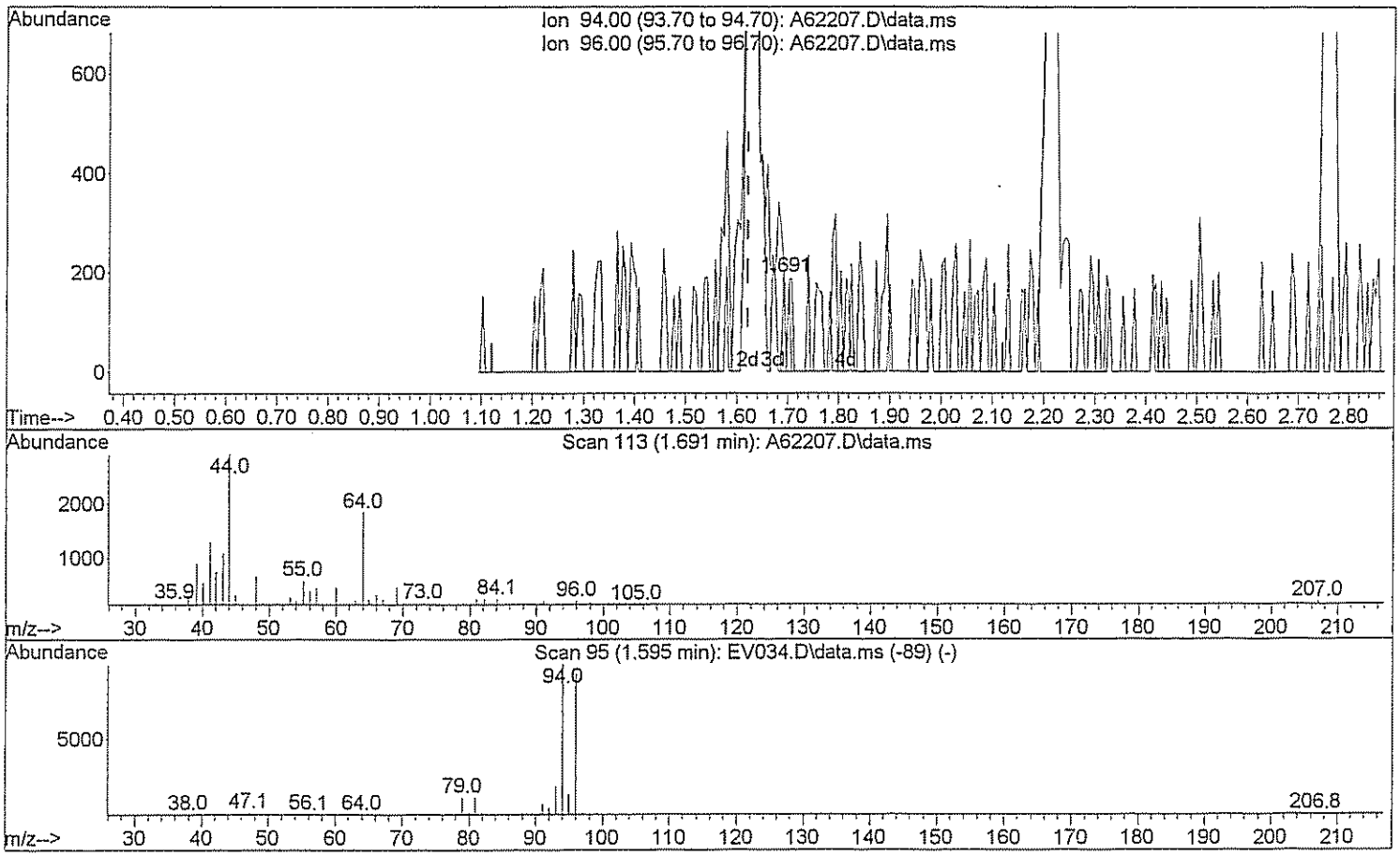
response 2454

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	43.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(5) Bromomethane

1.691min (+0.070) 0.10 ug/L

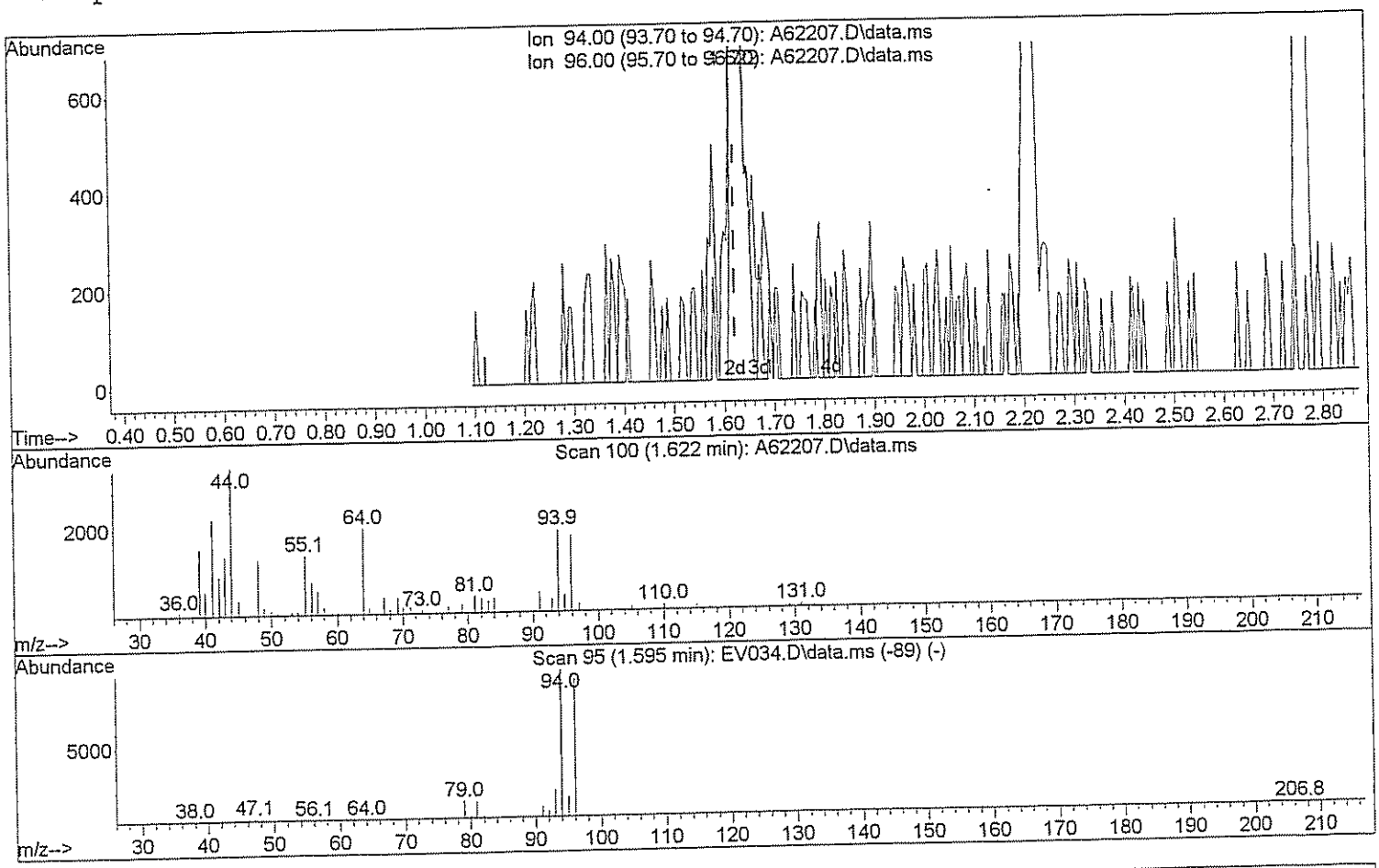
response 120

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	99.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(5) Bromomethane

1.622min (+0.000) 2.42 ug/L m DW 3/17/09

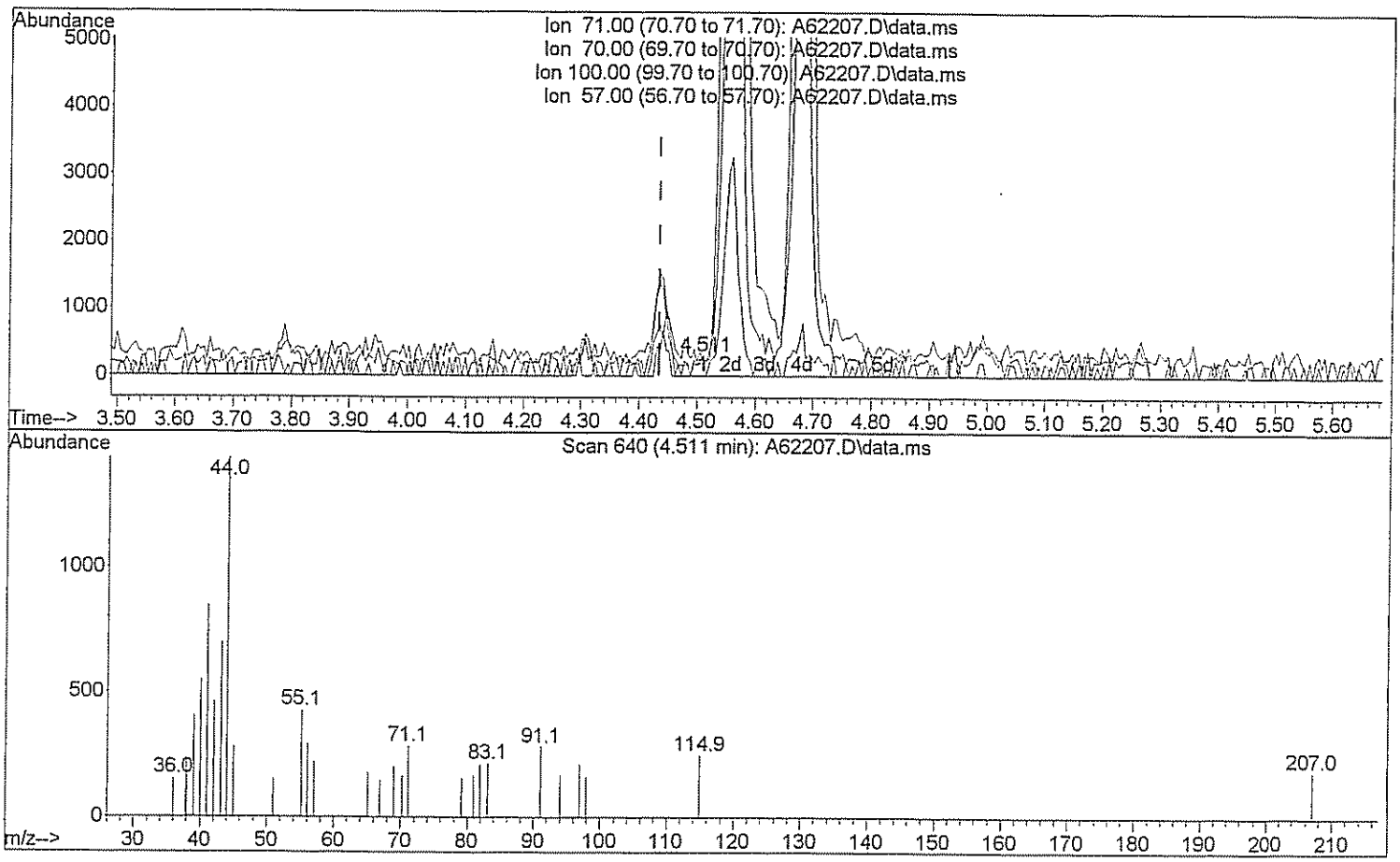
response 2845

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	4.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(26) n-Heptane (T)

4.511min (+0.075) 0.13 ug/L

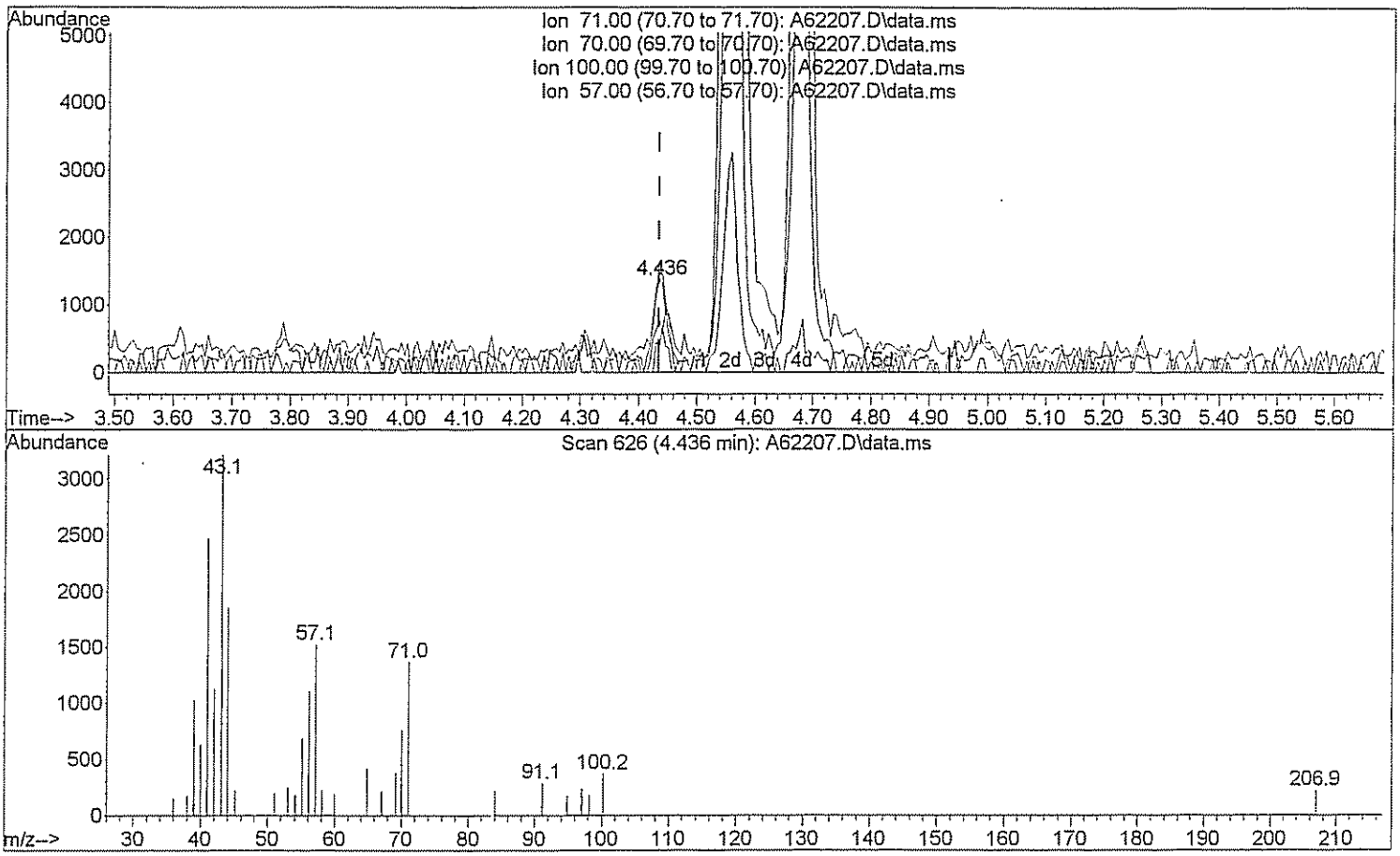
response 287

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	62.00	0.00#
57.00	40.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 1.32 ug/L m DW 3/17/09

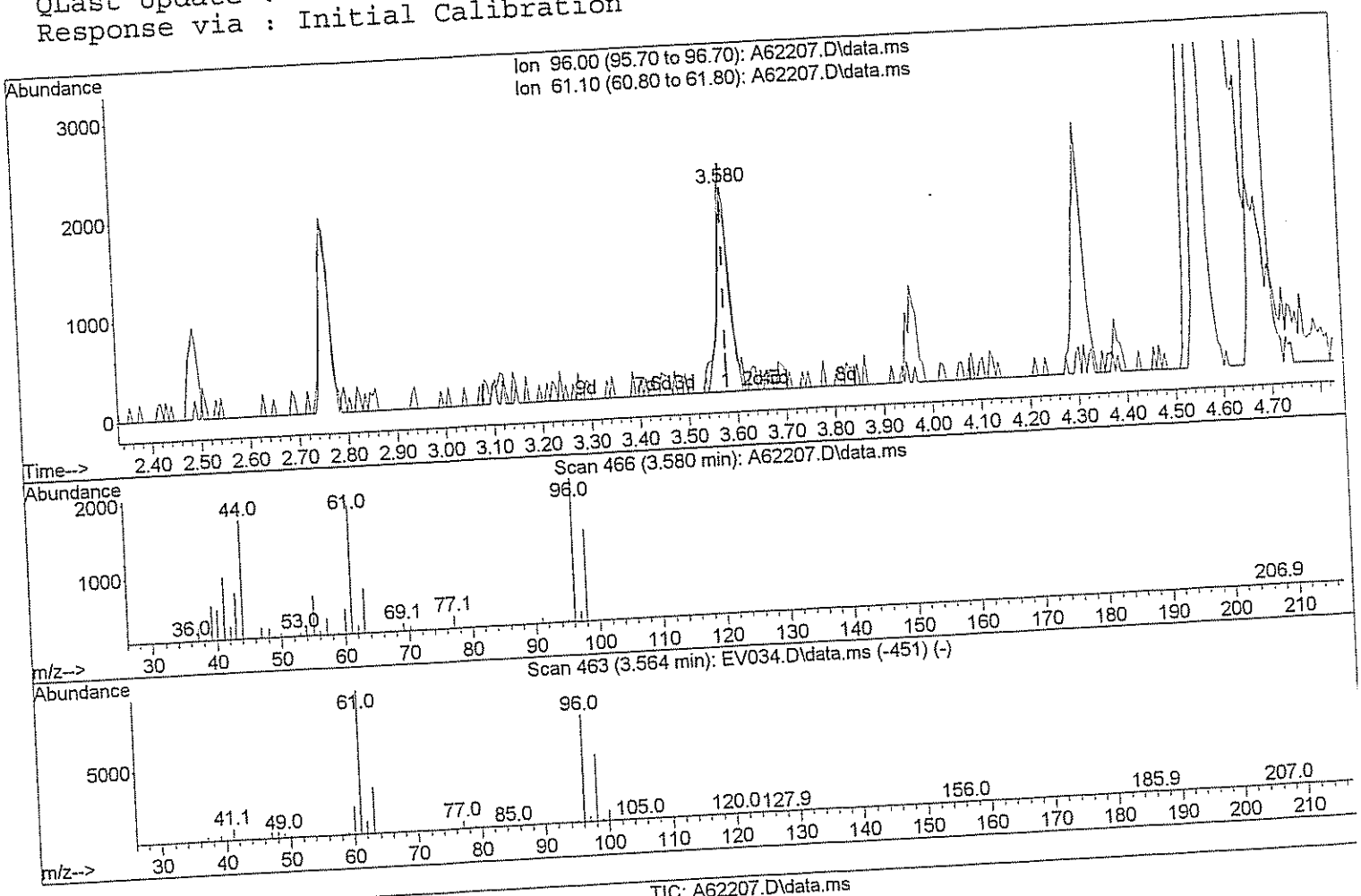
response 2999

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	62.00	0.00#
57.00	40.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



(29) 1,2-dichloroethene(total)

3.580min (+0.000) 1.15 ug/L

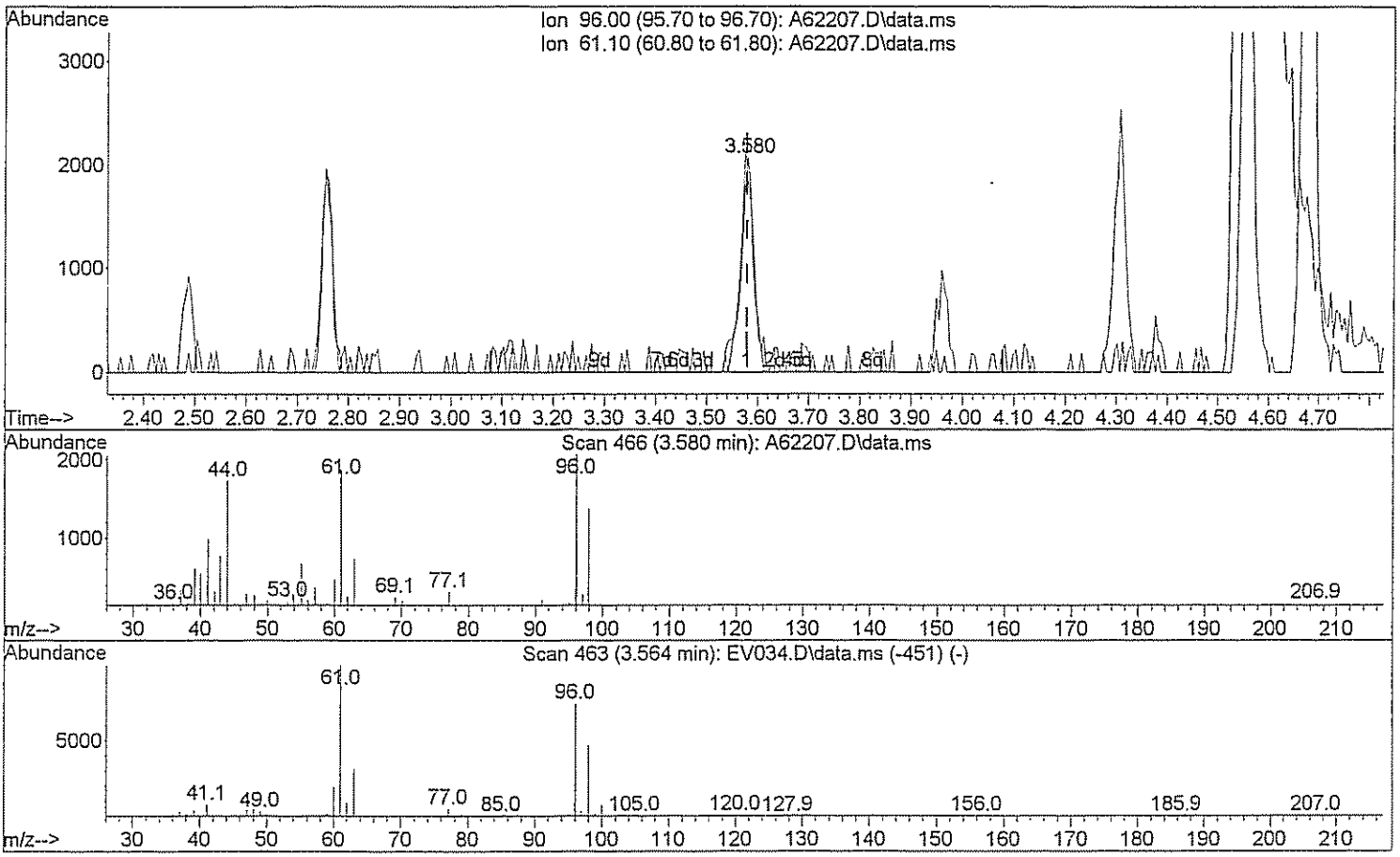
response 3658

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	106.40#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.000) 3.01 ug/L m DM 3/17/09

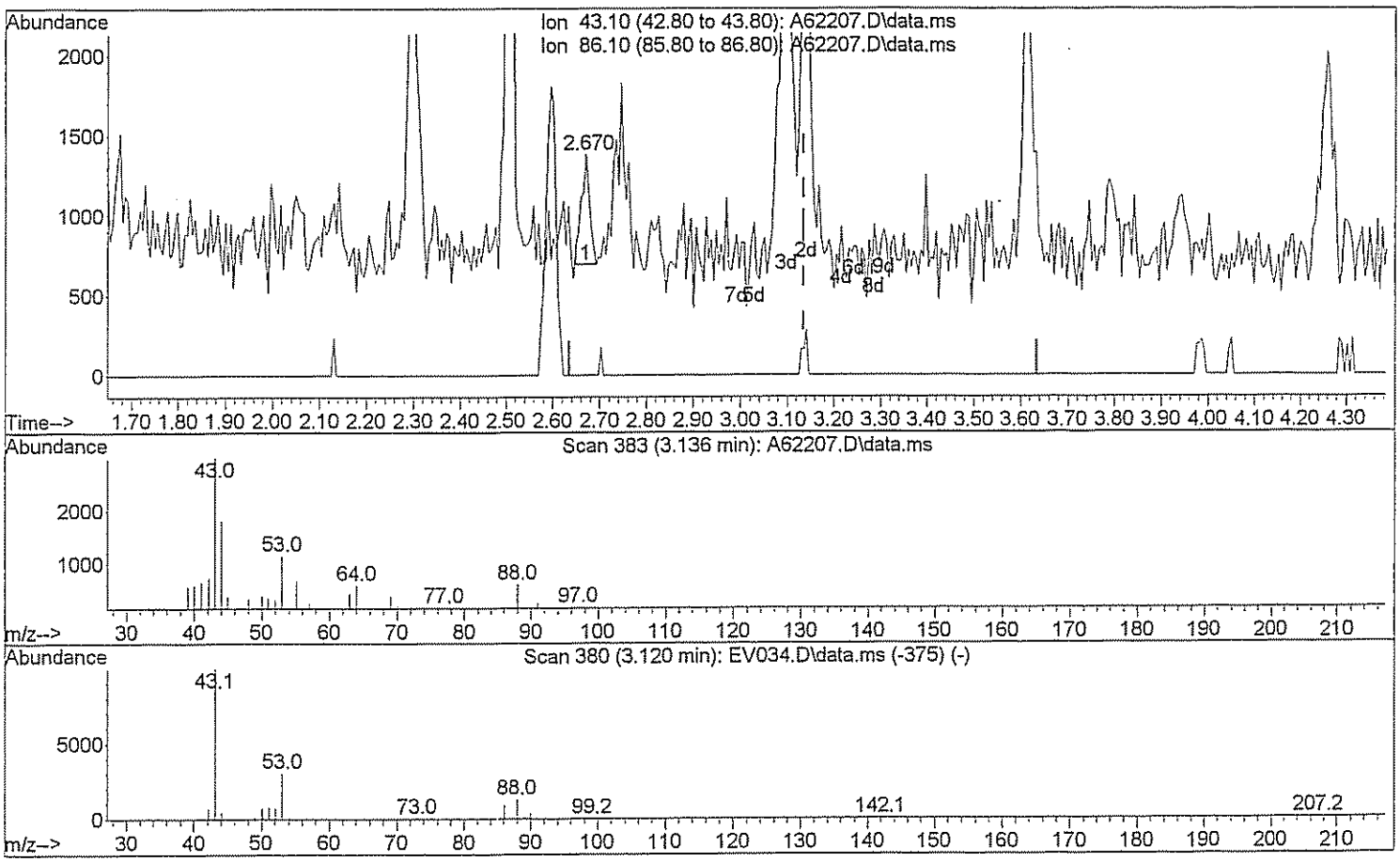
response 9570

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	40.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(44) Vinyl Acetate

2.670min (-0.465) 0.20 ug/L

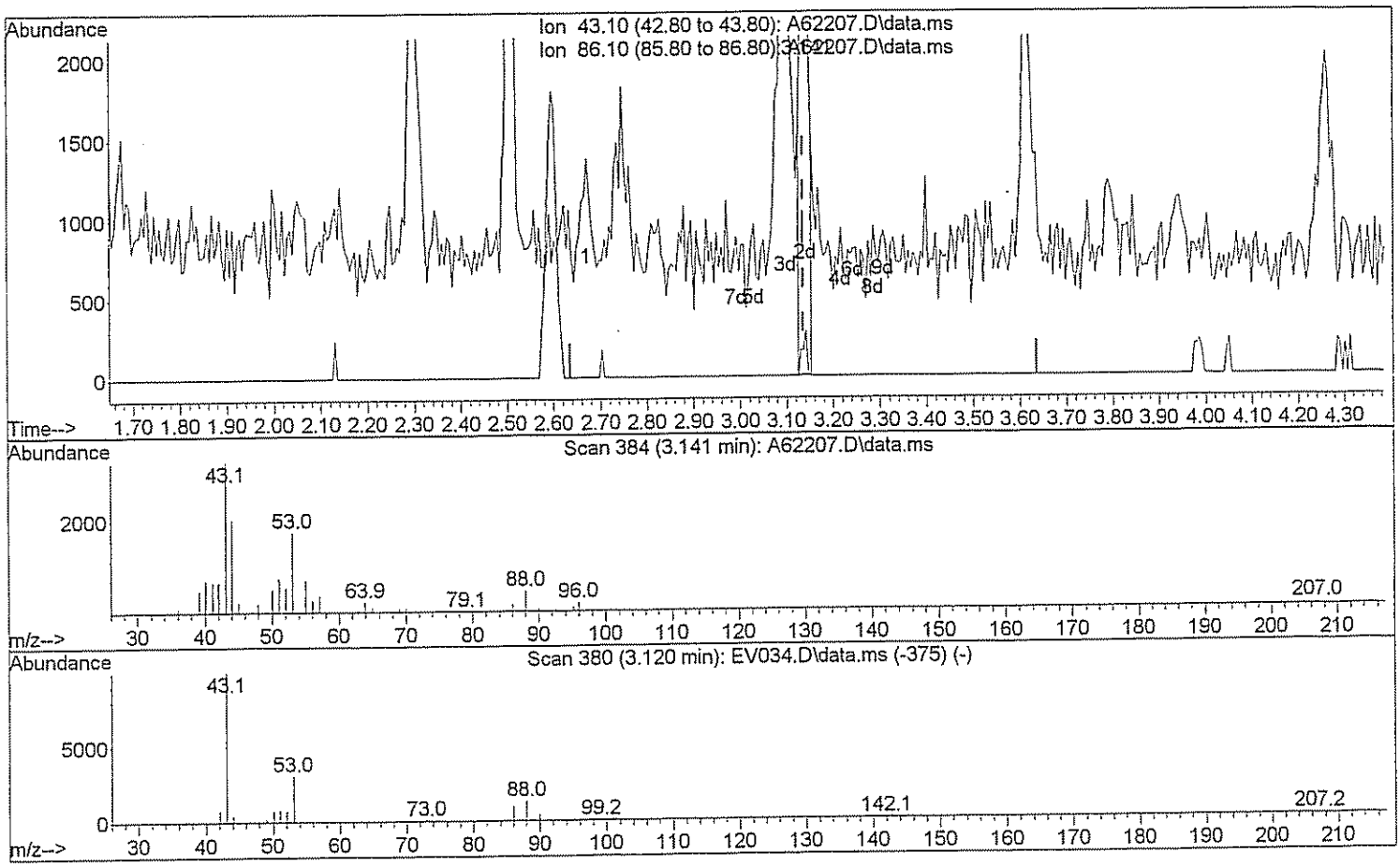
response 826

Ion	Exp%	Act%
43.10	100	100
86.10	8.20	6.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(44) Vinyl Acetate

3.141min (+0.005) 0.96 ug/L m DW 3/17/09

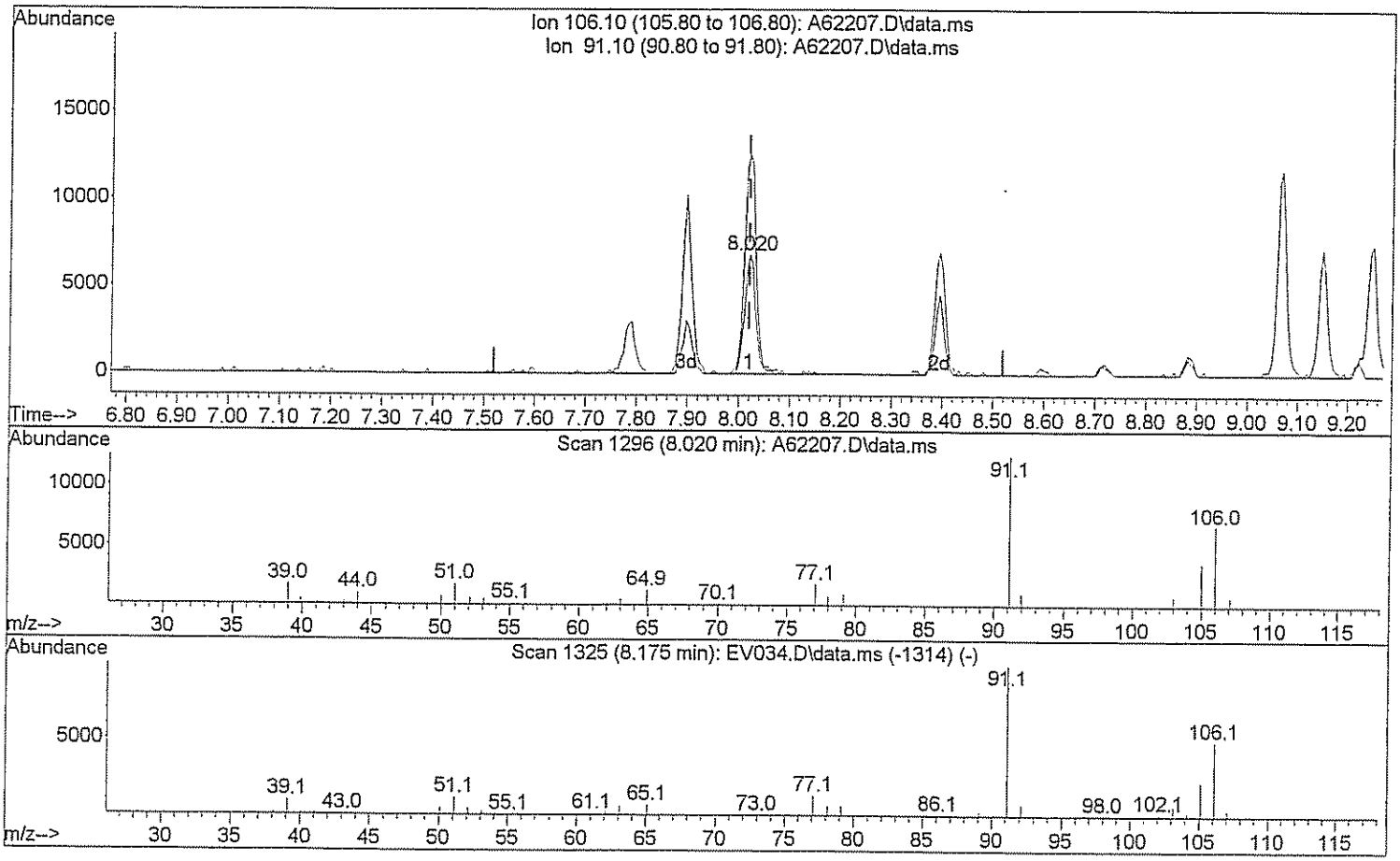
response 4019

Ion	Exp%	Act%
43.10	100	100
86.10	8.20	1.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 1.71 ug/L

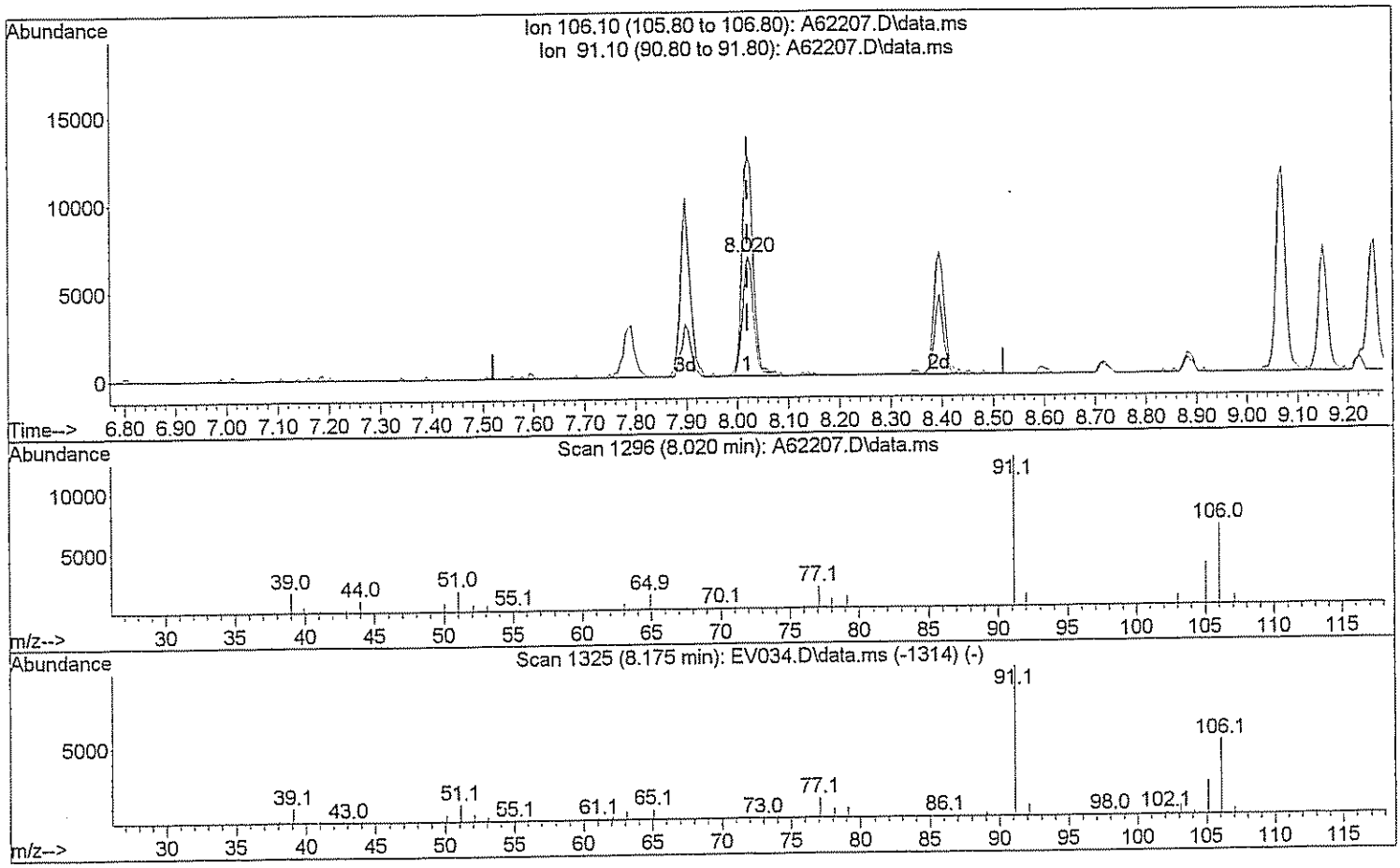
response 10091

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 2.63 ug/L m DW 3/17/09

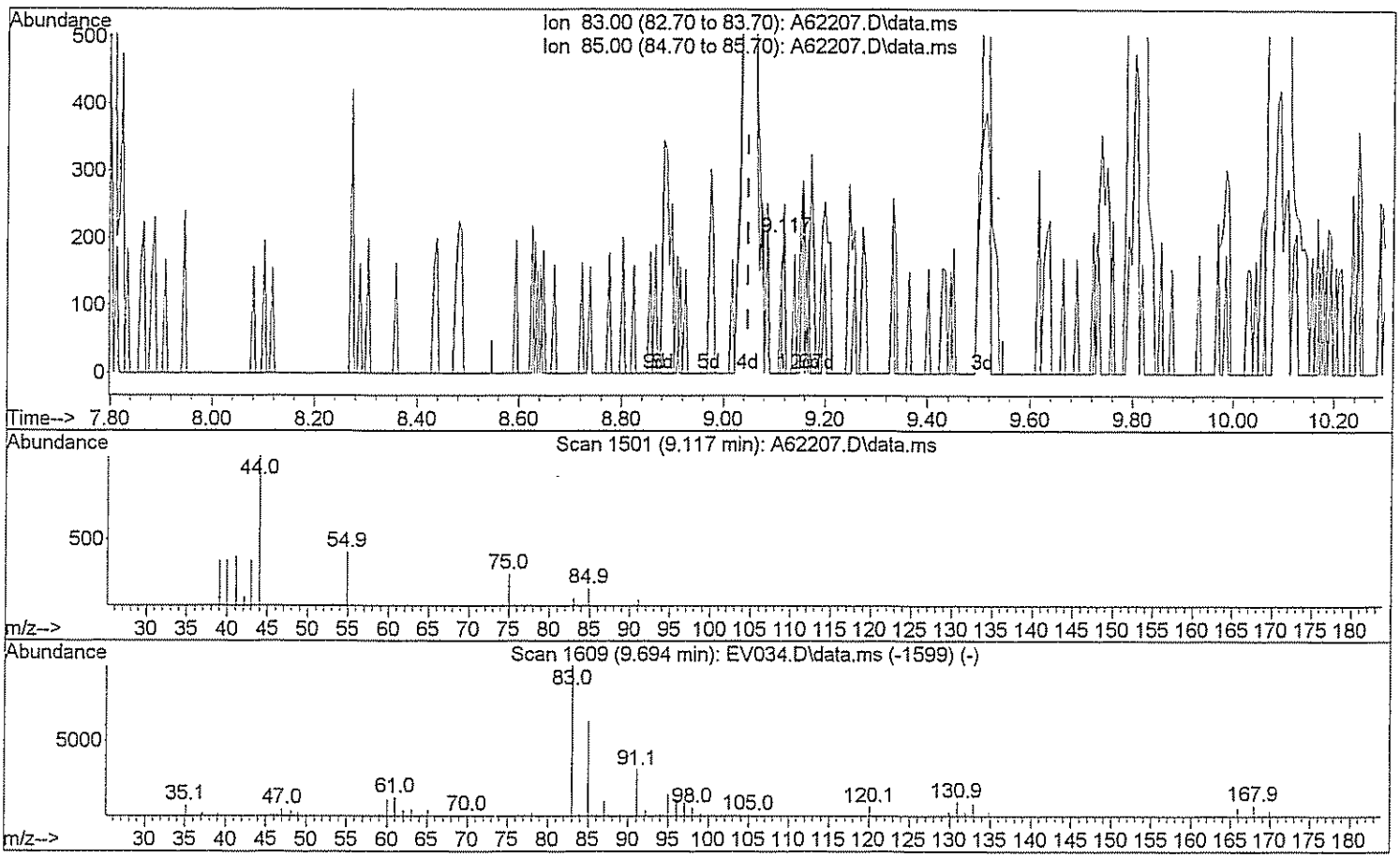
response 15541

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.94#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(78) 1,1,2,2-Tetrachloroethane

9.117min (+0.070) 0.03 ug/L

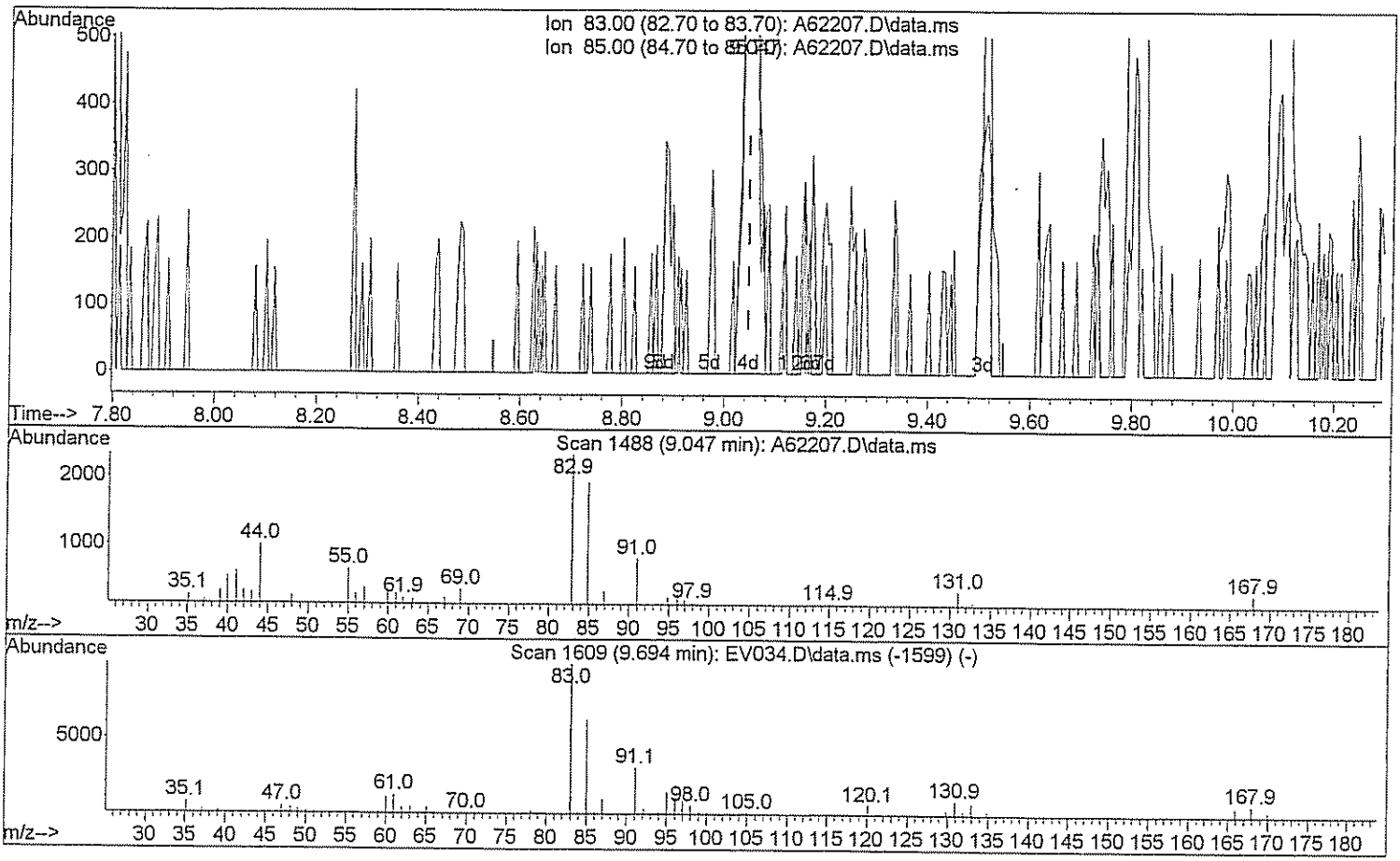
response 114

Ion	Exp%	Act%
83.00	100	100
85.00	62.40	71.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(78) 1,1,2,2-Tetrachloroethane

9.047min (+0.000) 0.95 ug/L m

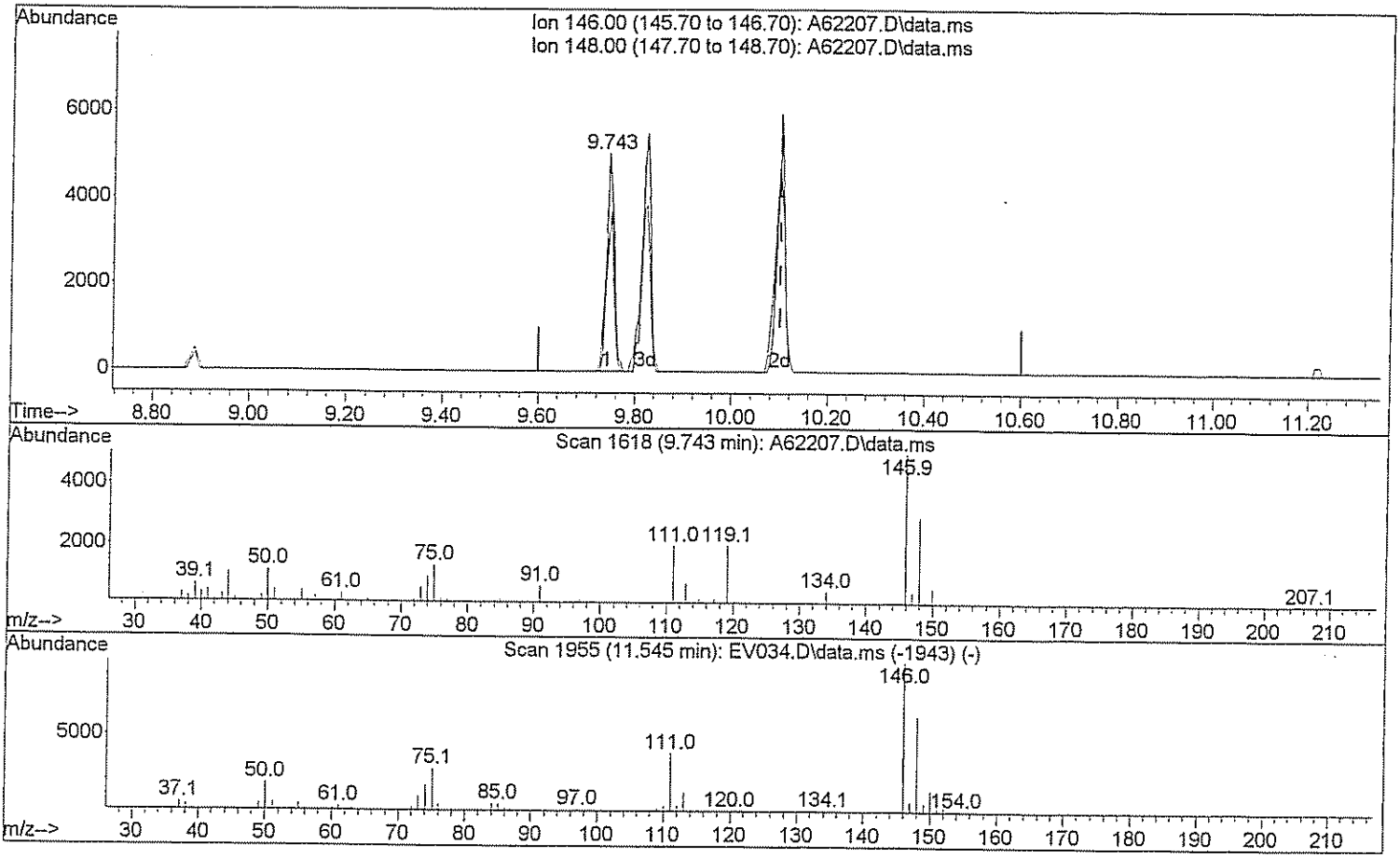
response 3138

Ion	Exp%	Act%
83.00	100	100
85.00	62.40	2.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(93) 1,2-Dichlorobenzene

9.743min (-0.358) 0.84 ug/L

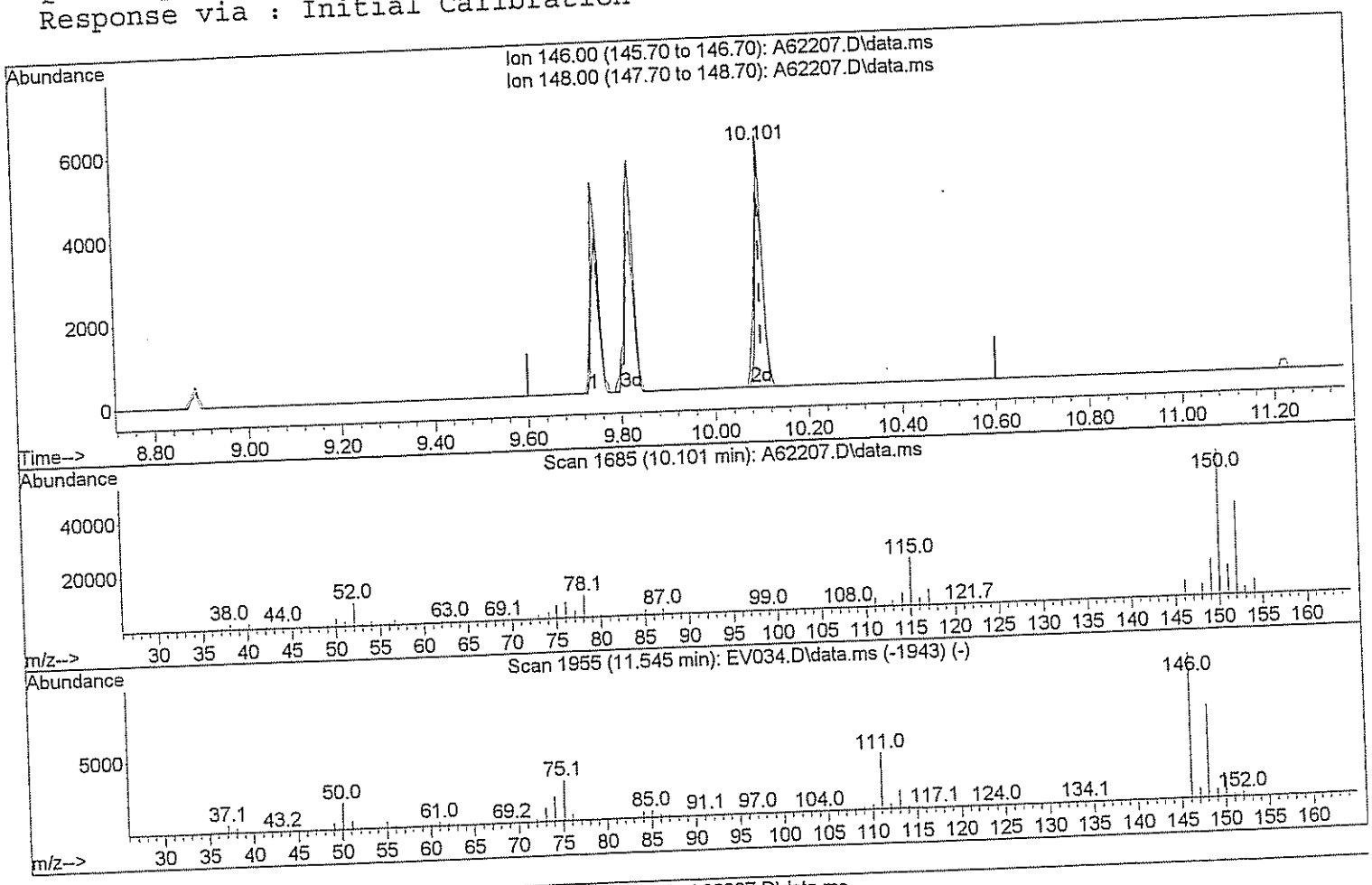
response 5746

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	68.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



(93) 1,2-Dichlorobenzene

10.101min (+0.000) 0.89 ug/L m SmJ 3/17/09

response 6074

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	64.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	620821	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	510609	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	461433	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	162435	48.71	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.42%			
54) Toluene-d8	6.142	98	578385	48.26	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.52%			
76) 4-Bromofluorobenzene	8.881	95	215086	49.24	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.48%			
92) 1,2-Dichlorobenzene-d4	10.085	152	202987	46.44	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 92.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.188	85	5296	4.41	ug/L	95
3) Chloromethane	1.322	50	11263	5.36	ug/L #	63
4) Vinyl chloride	1.392	62	11774	4.56	ug/L #	46
5) Bromomethane	1.622	94	4253m	3.53	ug/L	
6) Chloroethane	1.686	64	8923m	4.93	ug/L	
7) Trichlorofluoromethane	1.841	101	15209	4.18	ug/L	99
8) Ethyl Ether	2.044	59	9718	4.19	ug/L	90
9) Freon 113	2.178	101	8353	4.01	ug/L	93
10) Acrolein	2.189	56	11354	25.72	ug/L #	74
11) Tert-Butyl alcohol	2.665	59	25601	95.22	ug/L #	47
12) 1,1-Dichloroethene	2.210	96	10037	4.31	ug/L	76
13) Iodomethane	2.333	142	6874	3.17	ug/L	97
14) Acetonitrile	2.483	40	46779	30.48	ug/L #	1
15) Methylene chloride	2.590	84	13777	4.85	ug/L	96
16) Trans-1,2-dichloroethene	2.750	96	11537	4.30	ug/L	84
17) Isopropyl ether	3.088	45	44510	4.22	ug/L	100
18) 1,1-Dichloroethane	3.109	63	20739	4.14	ug/L	99
19) Acetone	2.296	43	10639	10.34	ug/L	96
20) Methyl Acetate	4.254	43	13443	6.38	ug/L #	100
21) MTBE	2.734	73	31650	4.39	ug/L	100
22) Carbon disulfide	2.355	76	35249	4.58	ug/L	100
24) Acrylonitrile	2.831	53	18286	22.89	ug/L	93
25) Chloroprene	3.146	53	19767	4.32	ug/L	89
26) n-Heptane	4.436	71	9657m	4.38	ug/L	
27) 2,2-Dichloropropane	3.548	77	16666	3.98	ug/L #	53
28) Cis-1,2-dichloroethene	3.580	96	13315	4.17	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	27425m	9.07 ug/L	
30) Propionitrile	3.729	54	18264	45.27 ug/L	96
31) Bromochloromethane	3.783	128	5626	3.80 ug/L	95
32) Tetrahydrofuran	3.794	72	3012	4.56 ug/L #	1
33) Chloroform	3.836	83	21517	4.09 ug/L	97
34) Cyclohexane	3.933	56	18757	4.06 ug/L #	81
35) 1,1,1-Trichloroethane	3.960	97	17034	4.08 ug/L	94
36) Carbon tetrachloride	4.061	117	14873	4.07 ug/L	98
37) Methacrylonitrile	3.820	41	84193	38.28 ug/L #	12
38) Methylcyclohexane	4.987	83	18142	4.24 ug/L	95
39) Isobutyl Alcohol	4.436	43	17978	89.80 ug/L	91
42) 2-Butanone	3.612	43	15533	9.00 ug/L	98
43) 1,1-Dichloropropene	4.099	75	15570	4.18 ug/L	100
44) Vinyl Acetate	3.136	43	18207	4.53 ug/L	97
45) Benzene	4.281	78	47600	4.15 ug/L	100
46) 1,2-Dichloroethane	4.371	62	15061m	4.16 ug/L	
47) Trichloroethene	4.880	95	12390	4.34 ug/L	96
48) 1,2-Dichloropropane	5.158	63	11740	3.93 ug/L	98
49) Methyl methacrylate	5.265	69	10447	5.39 ug/L	83
50) Dibromomethane	5.276	93	7721	4.46 ug/L	99
51) Bromodichloromethane	5.425	83	16101	4.29 ug/L	100
52) 2-Chloroethylvinyl ether	5.773	63	29297	24.02 ug/L	92
53) Cis-1,3-dichloropropene	5.912	75	18450	3.79 ug/L	96
55) Toluene	6.217	92	30564	4.02 ug/L	94
56) Trans-1,3-dichloropropene	6.570	75	18138	4.09 ug/L	95
57) Ethyl methacrylate	6.624	69	15501	4.24 ug/L	93
58) 1,1,2-Trichloroethane	6.768	83	9497	4.16 ug/L	97
60) 4-Methyl-2-pentanone	6.094	43	26186	9.51 ug/L #	91
61) 2-Hexanone	7.062	43	20194	10.08 ug/L	95
62) Tetrachloroethene	6.790	166	11834	4.12 ug/L	92
63) 1,3-Dichloropropane	6.966	76	18431	4.60 ug/L	96
64) Dibromochloromethane	7.185	129	13422	4.58 ug/L	91
65) 1,2-Dibromoethane	7.319	107	11148	4.58 ug/L	99
66) 1-Chlorohexane	7.785	91	18454	4.64 ug/L	93
67) Chlorobenzene	7.806	112	34730	4.20 ug/L	93
68) 1,1,1,2-Tetrachloroethane	7.908	131	11935	3.93 ug/L #	18
69) Ethylbenzene	7.897	91	59985	4.27 ug/L	99
70) m,p-Xylene	8.020	106	47385	8.43 ug/L	90
71) o-Xylene	8.394	106	23297	4.19 ug/L	92
72) Xylene (Total)	8.020	106	70685m	12.36 ug/L	
73) Styrene	8.421	104	39554	4.21 ug/L	98
74) Bromoform	8.598	173	8081	4.40 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

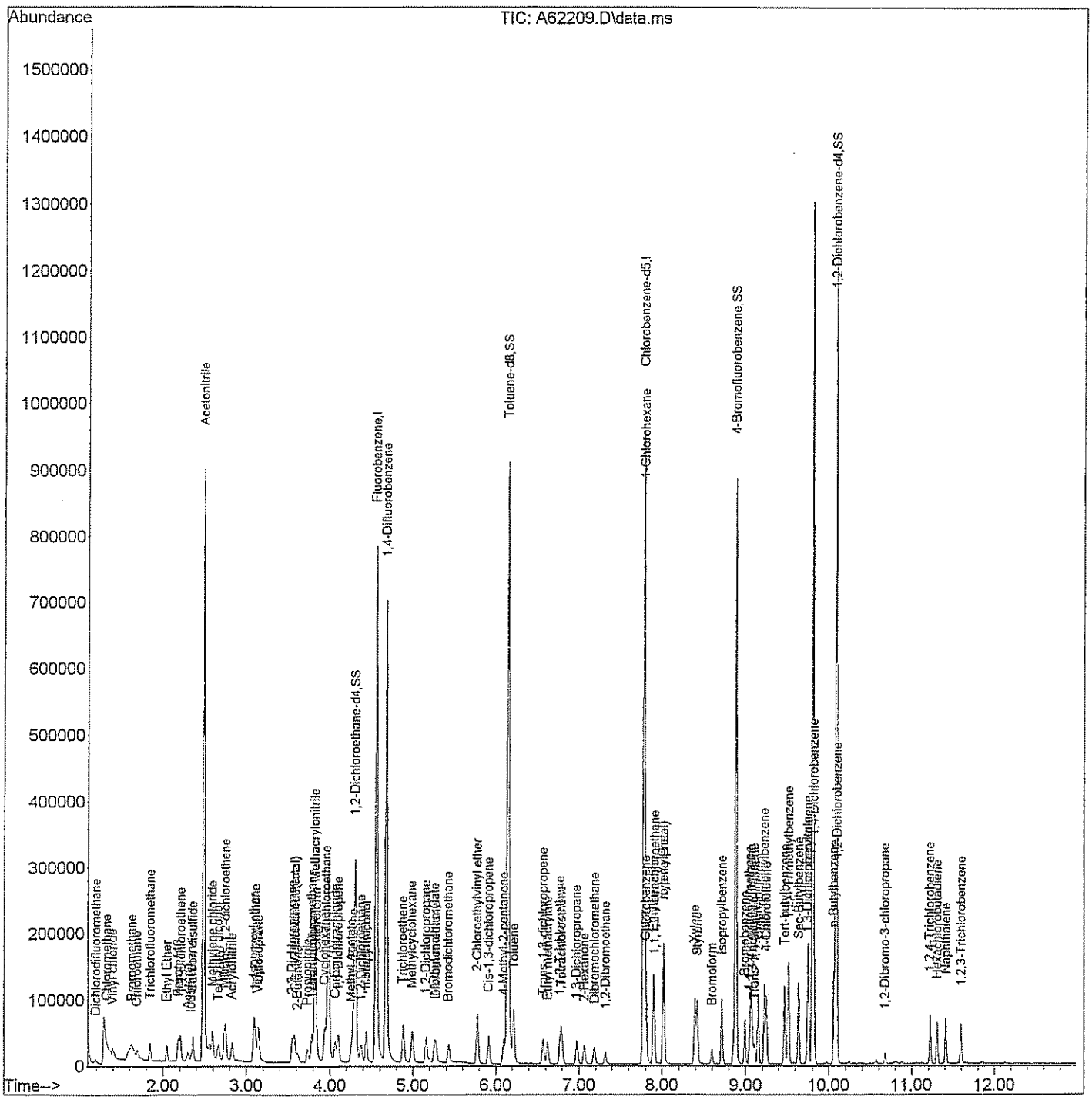
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	51123	4.25	ug/L		100
77) Bromobenzene	8.994	156	13648	4.16	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	14505	4.66	ug/L		95
79) 1,2,3-Trichloropropane	9.085	110	4733	5.19	ug/L		86
80) n-Propylbenzene	9.063	91	70946	4.31	ug/L		99
81) Trans-1,4-dichloro-2-b...	9.106	53	4560	5.46	ug/L	#	25
82) 2-Chlorotoluene	9.149	126	14908	4.30	ug/L	#	83
83) 4-Chlorotoluene	9.245	126	15465	4.31	ug/L		86
84) 1,3,5-Trimethylbenzene	9.224	105	48345	4.05	ug/L		98
85) Tert-butylbenzene	9.470	119	42422	4.07	ug/L		96
87) 1,2,4-Trimethylbenzene	9.518	105	50363	4.06	ug/L		94
88) Sec-Butylbenzene	9.641	105	63647	4.00	ug/L		98
89) 1,3-Dichlorobenzene	9.743	146	26904	3.80	ug/L		98
90) 4-Isopropyltoluene	9.753	119	54688	3.96	ug/L		98
91) 1,4-Dichlorobenzene	9.817	146	28782	4.10	ug/L		93
93) 1,2-Dichlorobenzene	10.101	146	25653	3.79	ug/L		86
94) n-Butylbenzene	10.058	91	54952	4.25	ug/L		98
95) 1,2-Dibromo-3-chloropr...	10.679	75	2578	4.80	ug/L		86
96) 1,2,4-Trichlorobenzene	11.219	180	15481	3.92	ug/L		97
97) Hexachlorobutadiene	11.305	225	6672	3.59	ug/L		100
98) Naphthalene	11.412	128	41431	4.35	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	13348	4.01	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

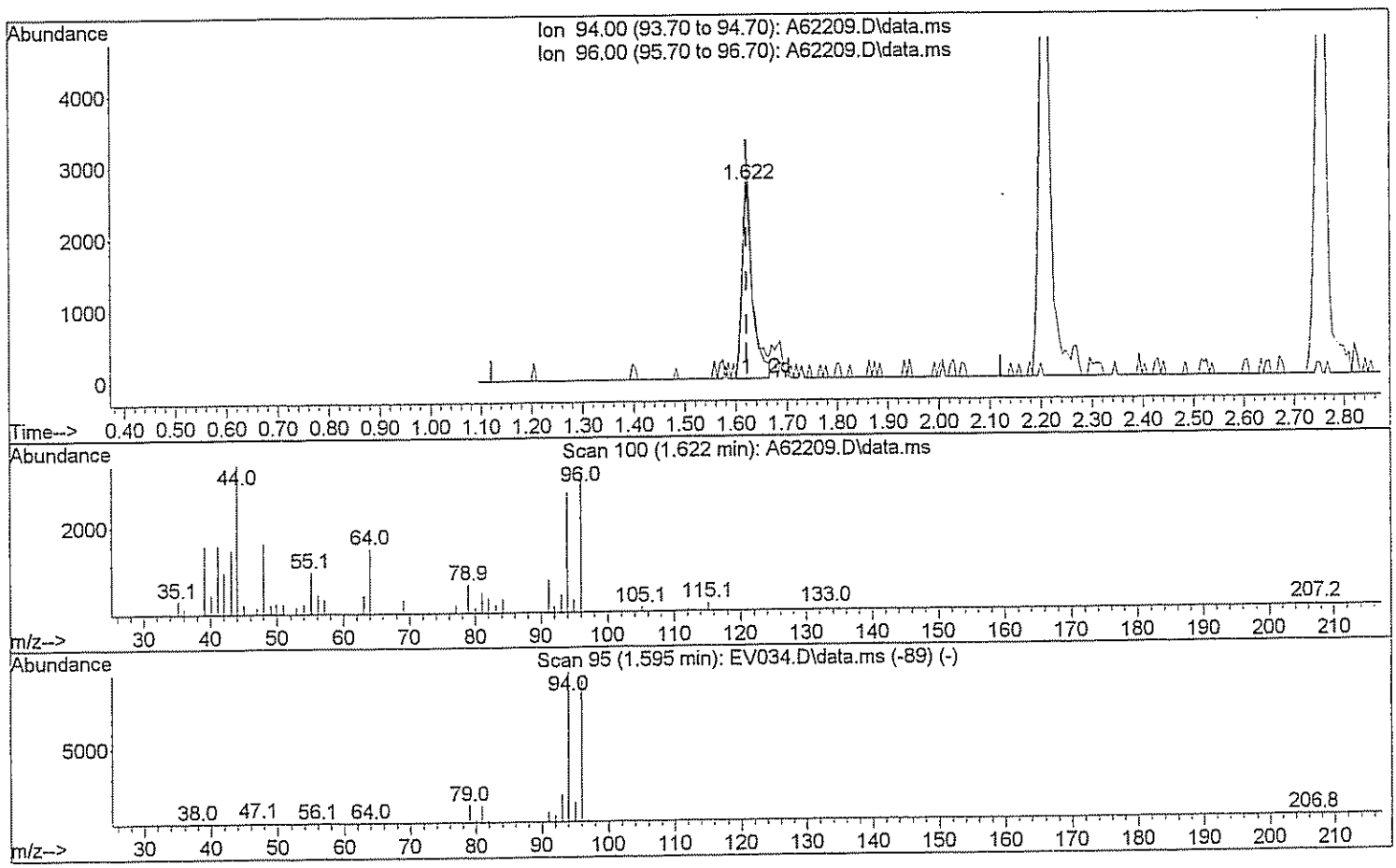
Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(5) Bromomethane

1.622min (+0.000) 3.06 ug/L

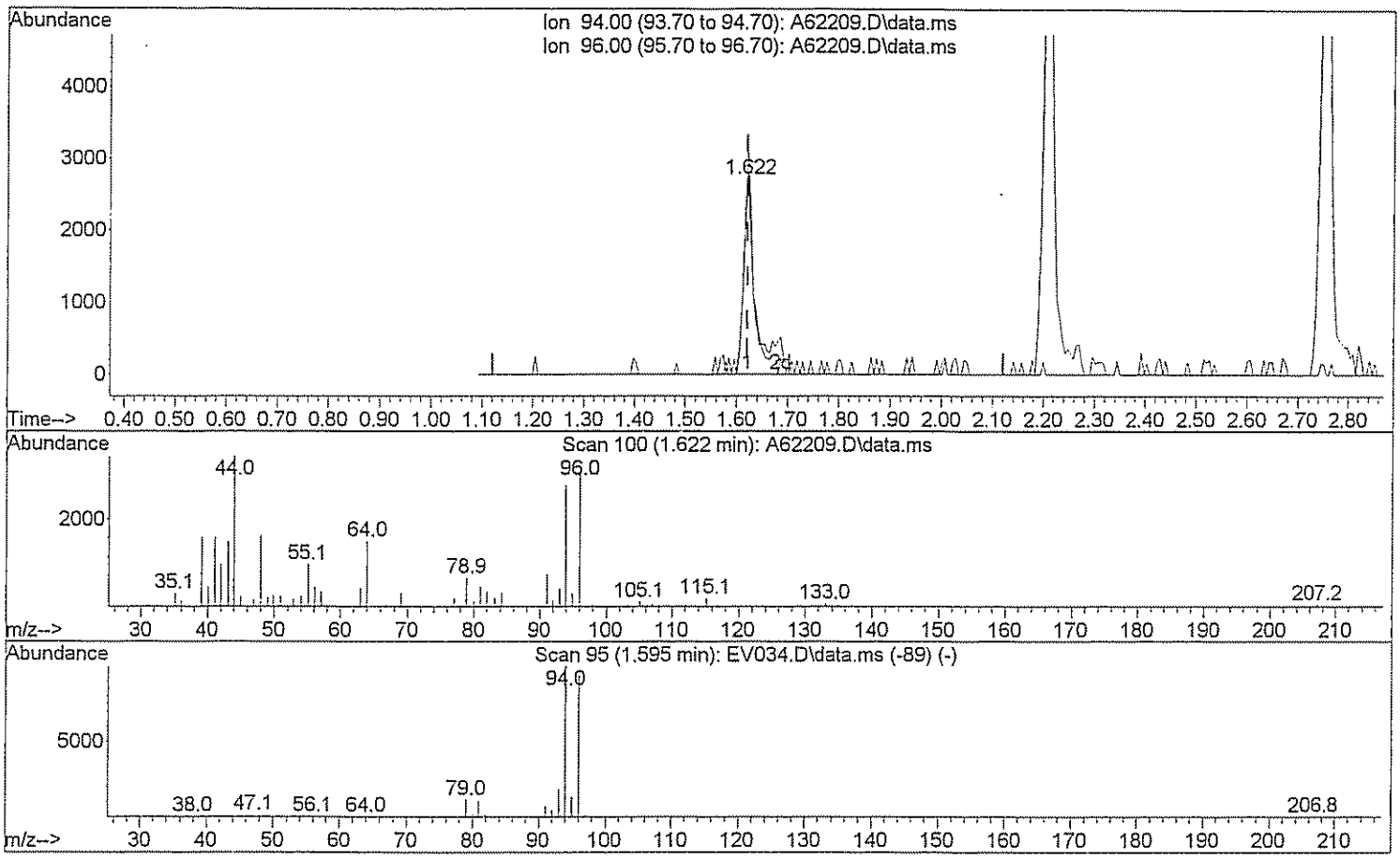
response 3686

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	114.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(5) Bromomethane

1.622min (+0.000) 3.53 ug/L m SW 3/17/09

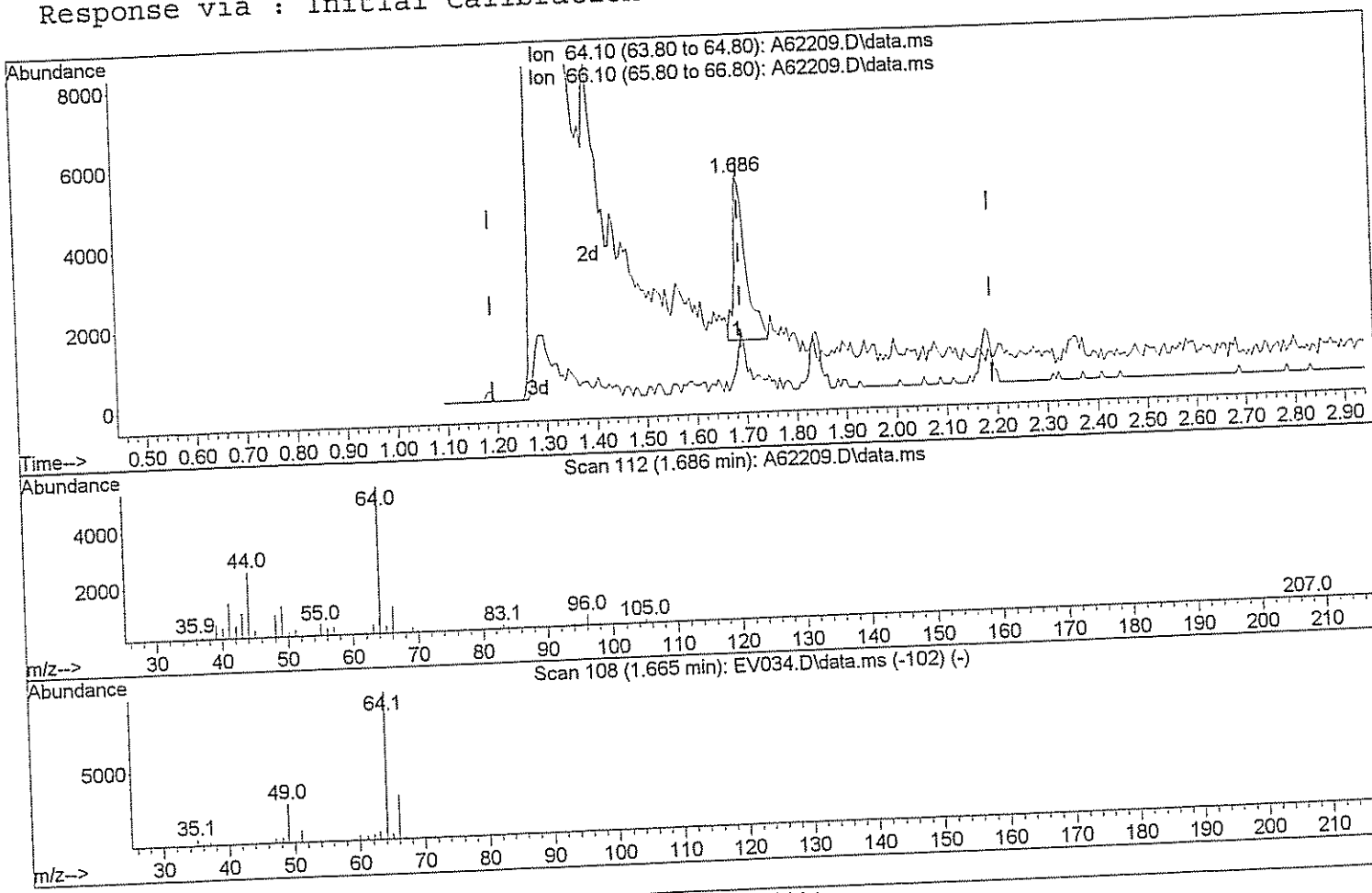
response 4253

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	98.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(6) Chloroethane

1.686min (-0.005) 3.89 ug/L

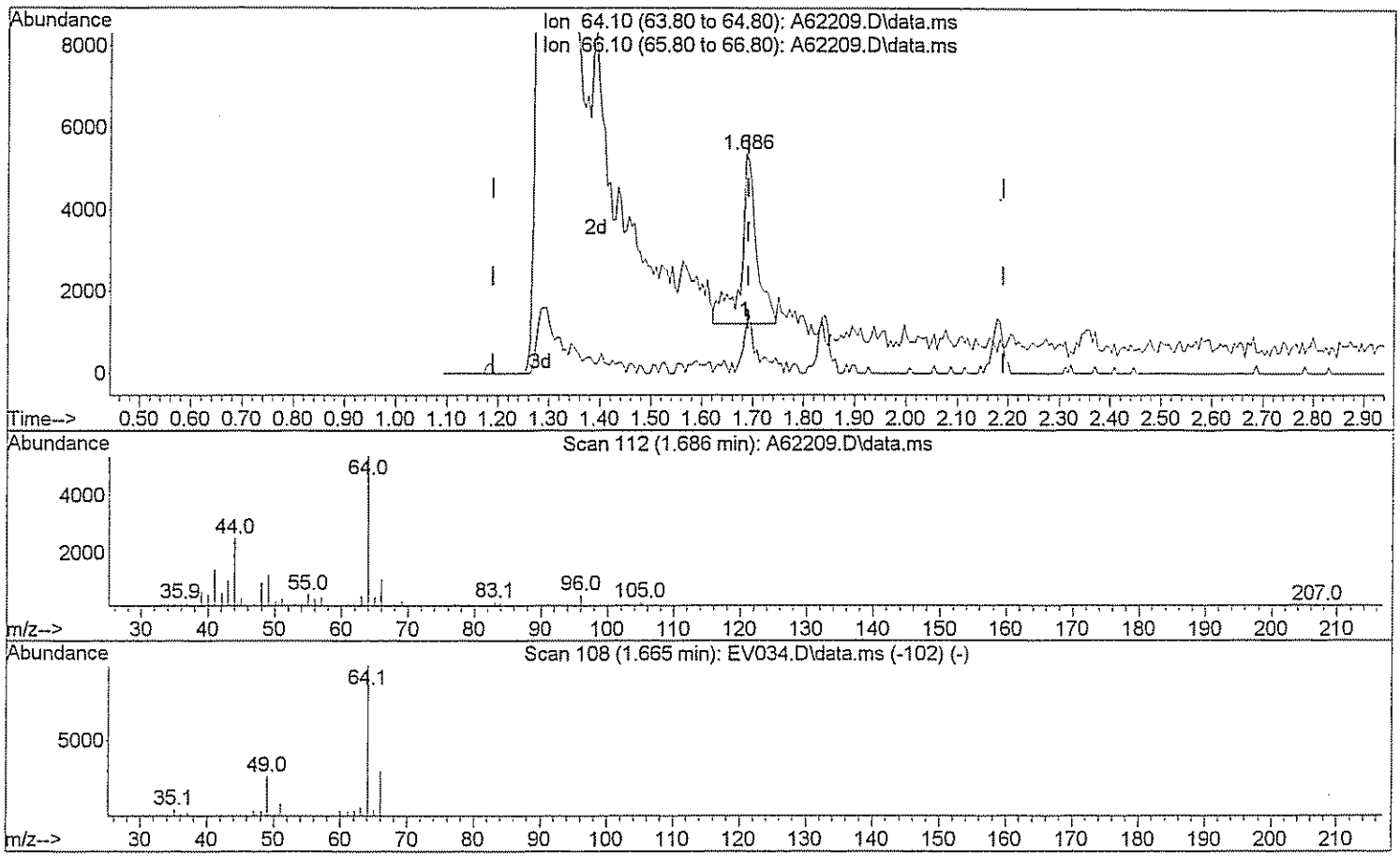
response 7032

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	29.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(6) Chloroethane

1.686min (-0.005) 4.93 ug/L m

DW 3/17/09

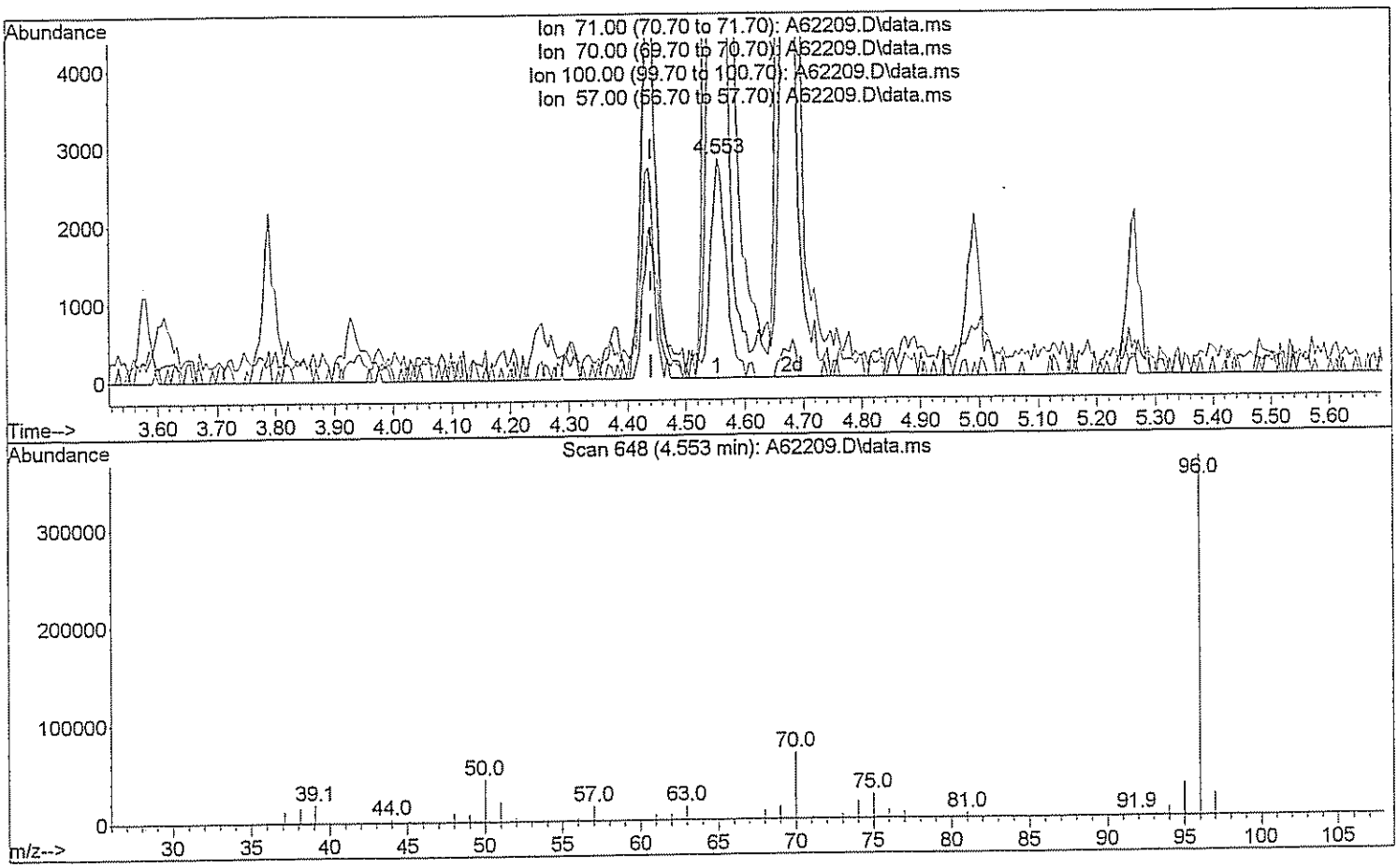
response 8923

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	23.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(26) n-Heptane (T)

4.553min (+0.112) 2.38 ug/L

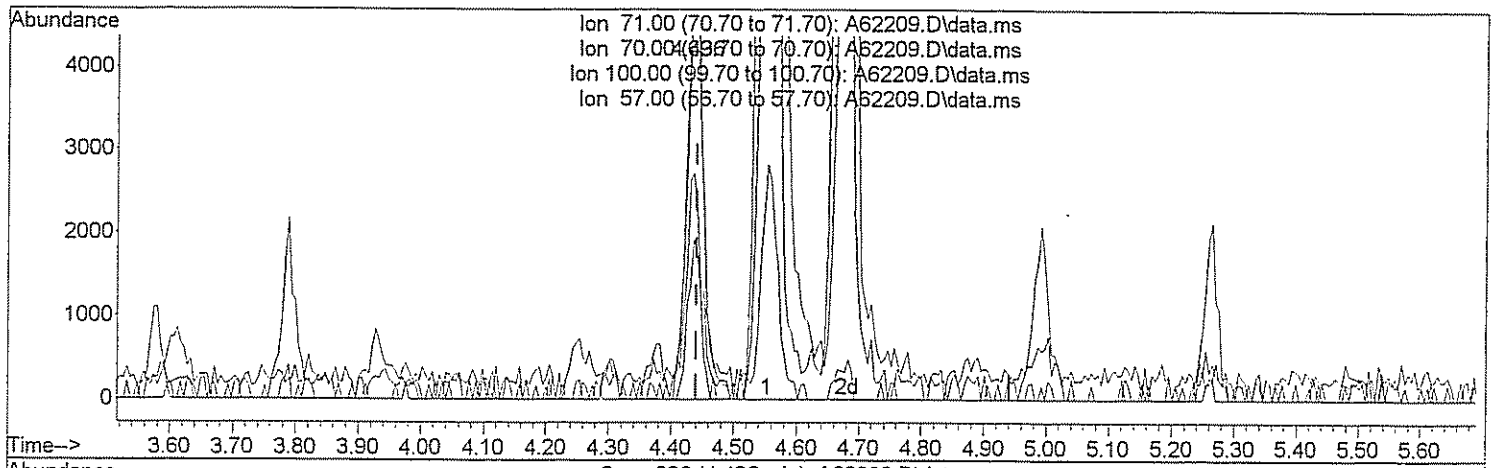
response 5249

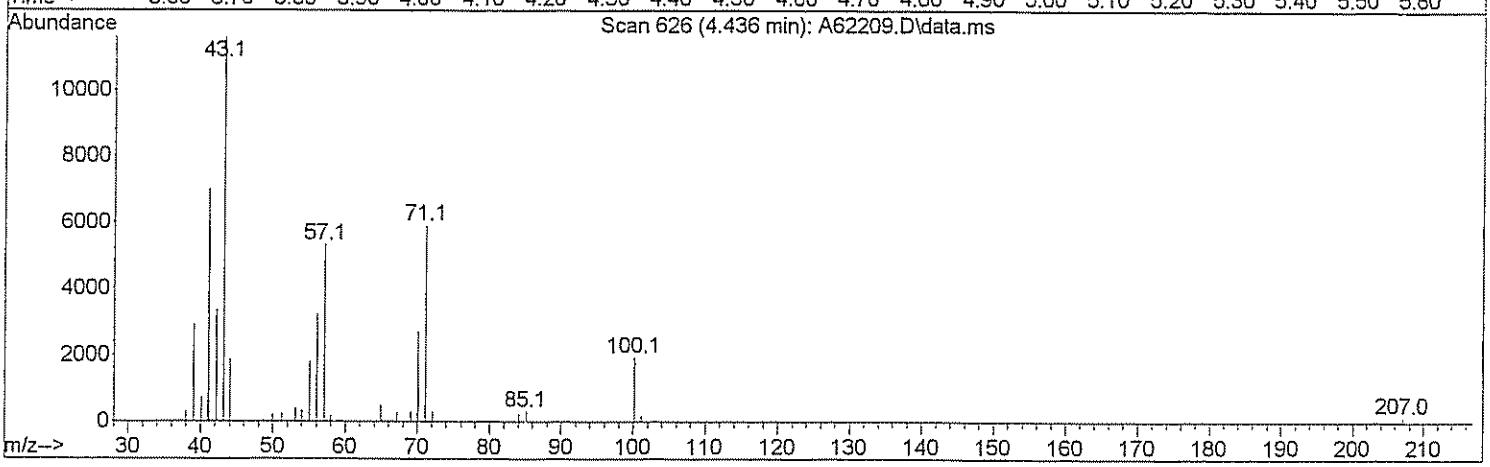
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2067.21#
100.00	62.00	0.00#
57.00	40.00	486.55#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration





TIC: A62209.D\data.ms

(26) n-Heptane (T)

4.436min (-0.005) 4.38 ug/L m 3/17/09

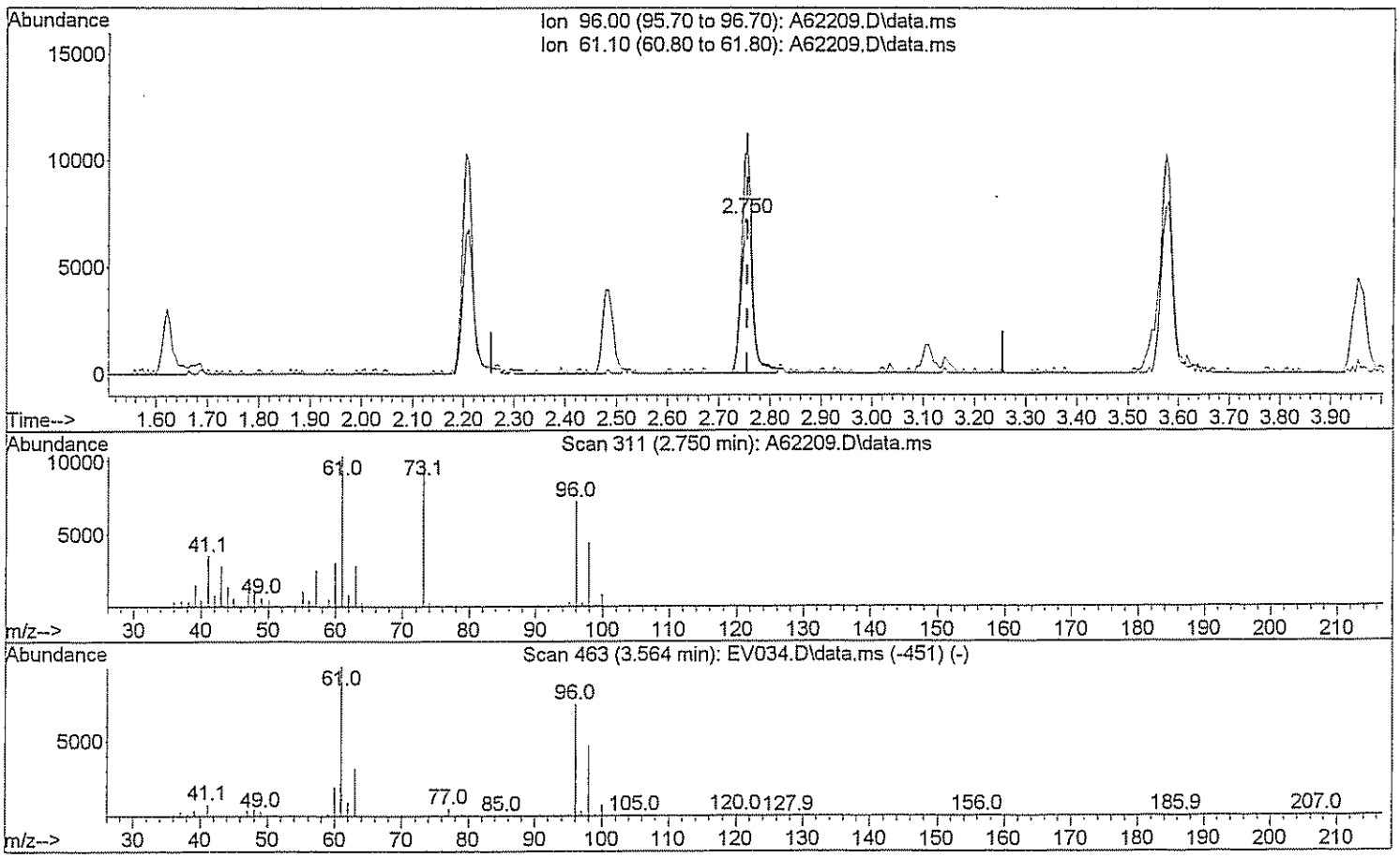
response 9657

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1123.62#
100.00	62.00	0.00#
57.00	40.00	264.46#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 3.82 ug/L

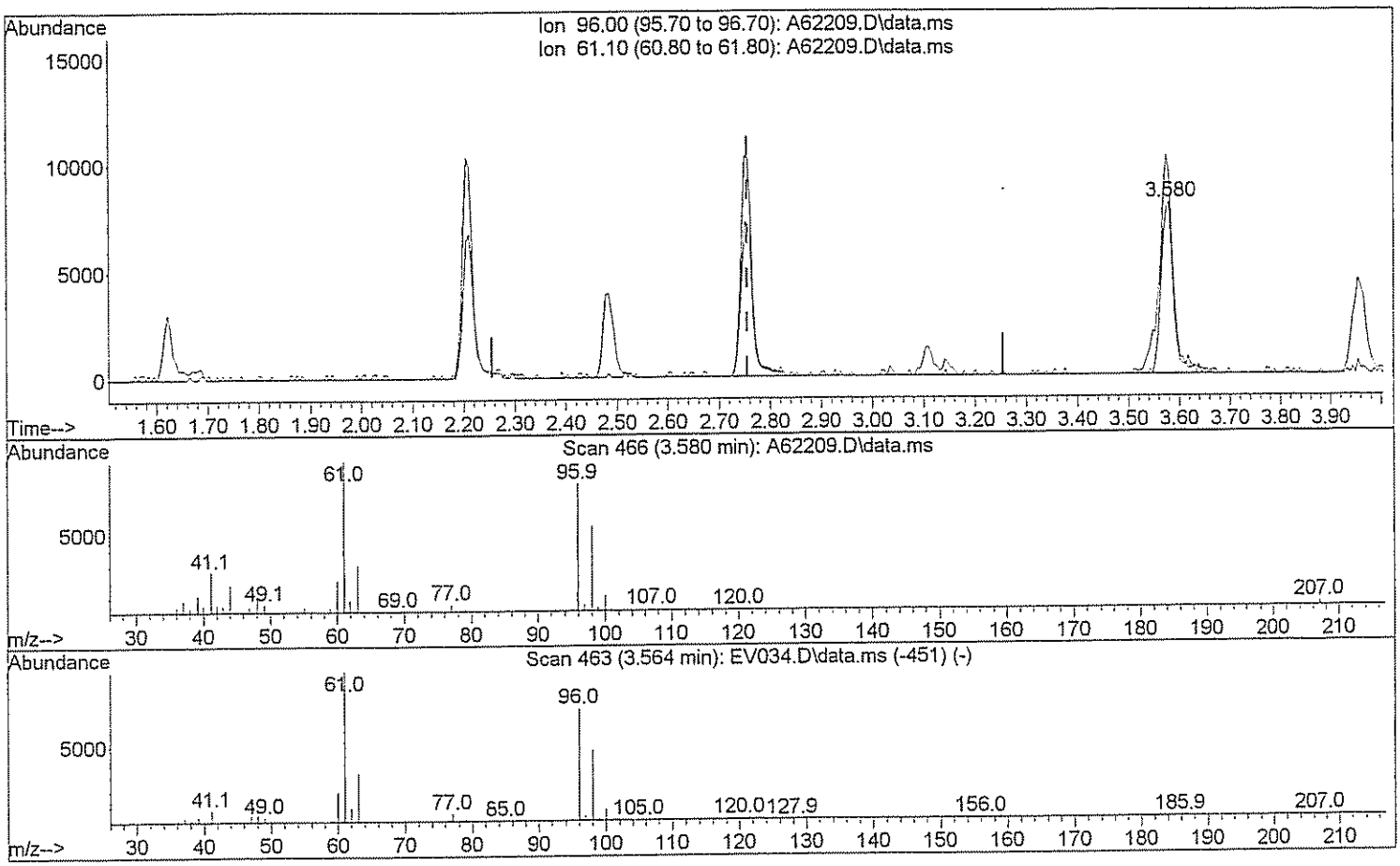
response 11537

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	134.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.824) 9.07 ug/L m 3/17/09

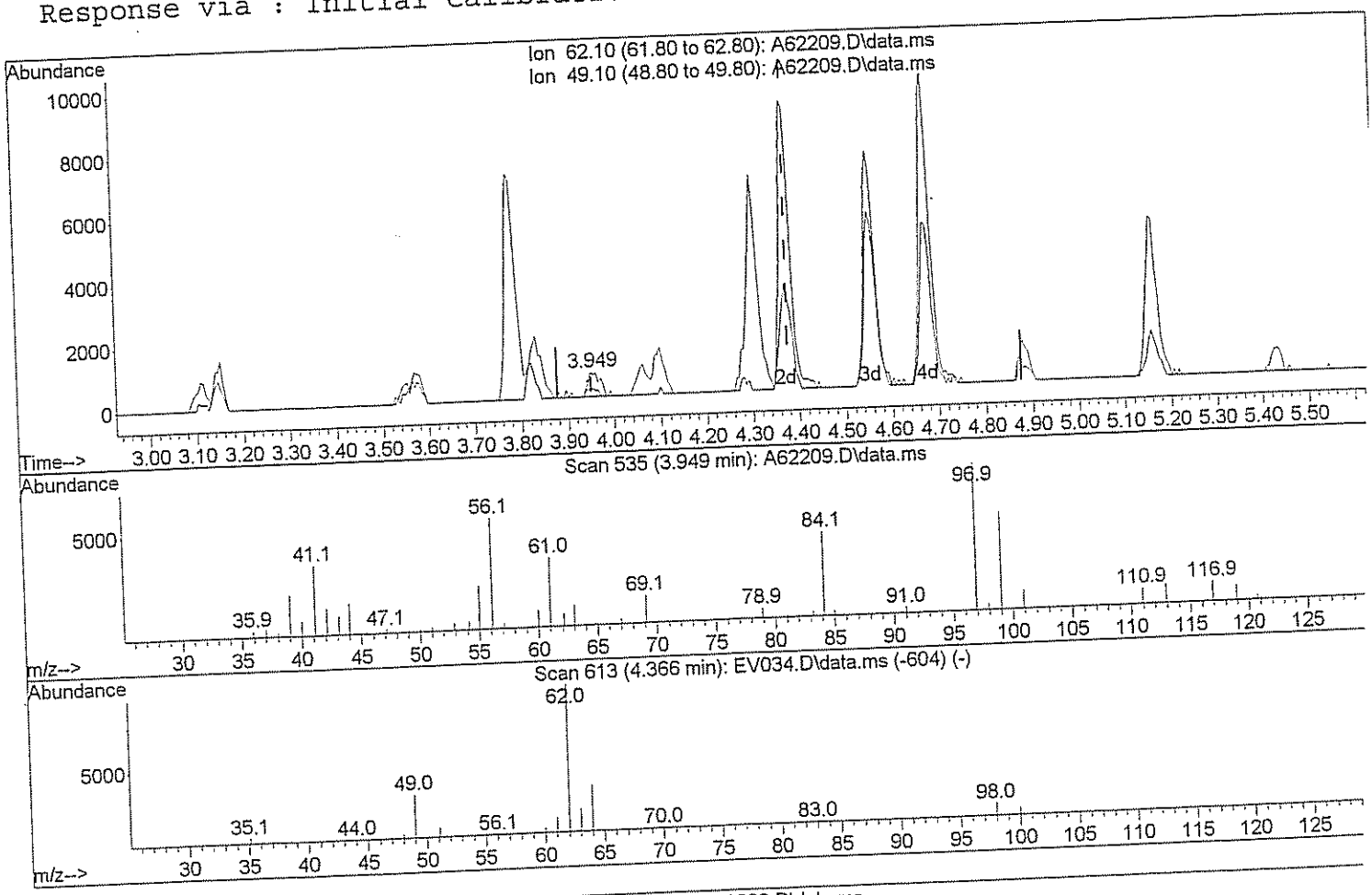
response 27425

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	56.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(46) 1,2-Dichloroethane

3.949min (-0.428) 0.37 ug/L

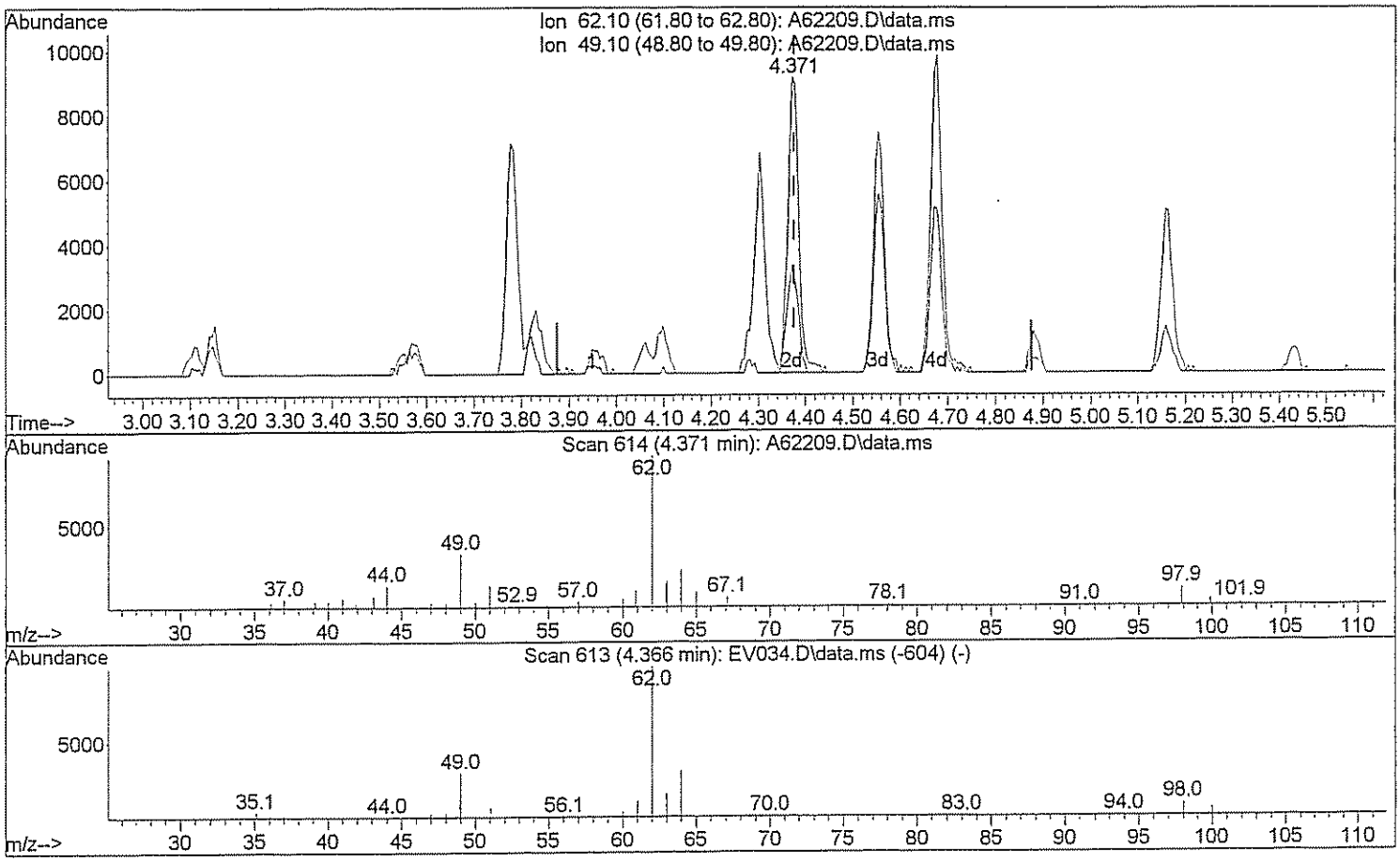
response 1349

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	28.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(46) 1,2-Dichloroethane

4.371min (-0.005) 4.16 ug/L m

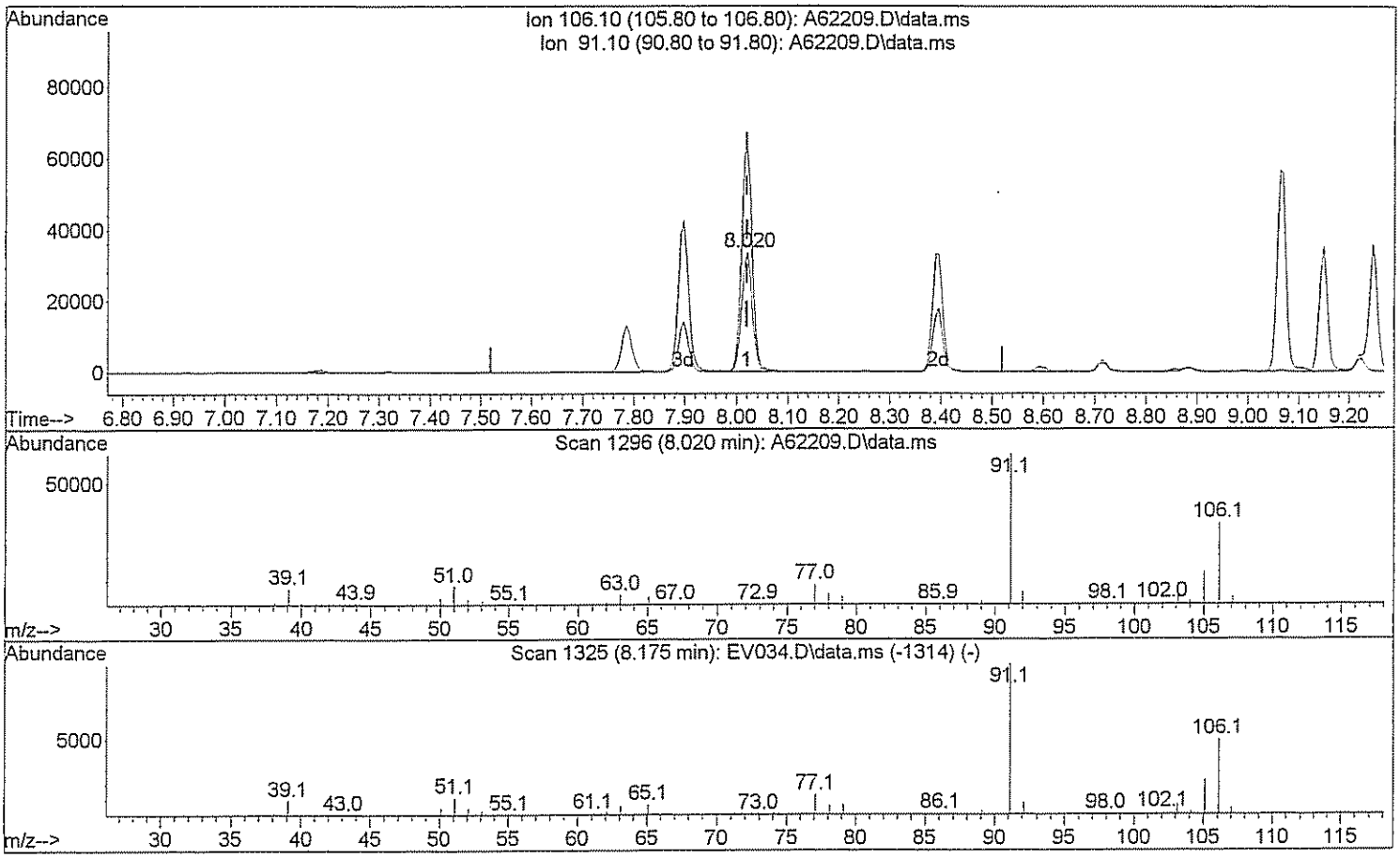
response 15061

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 8.28 ug/L

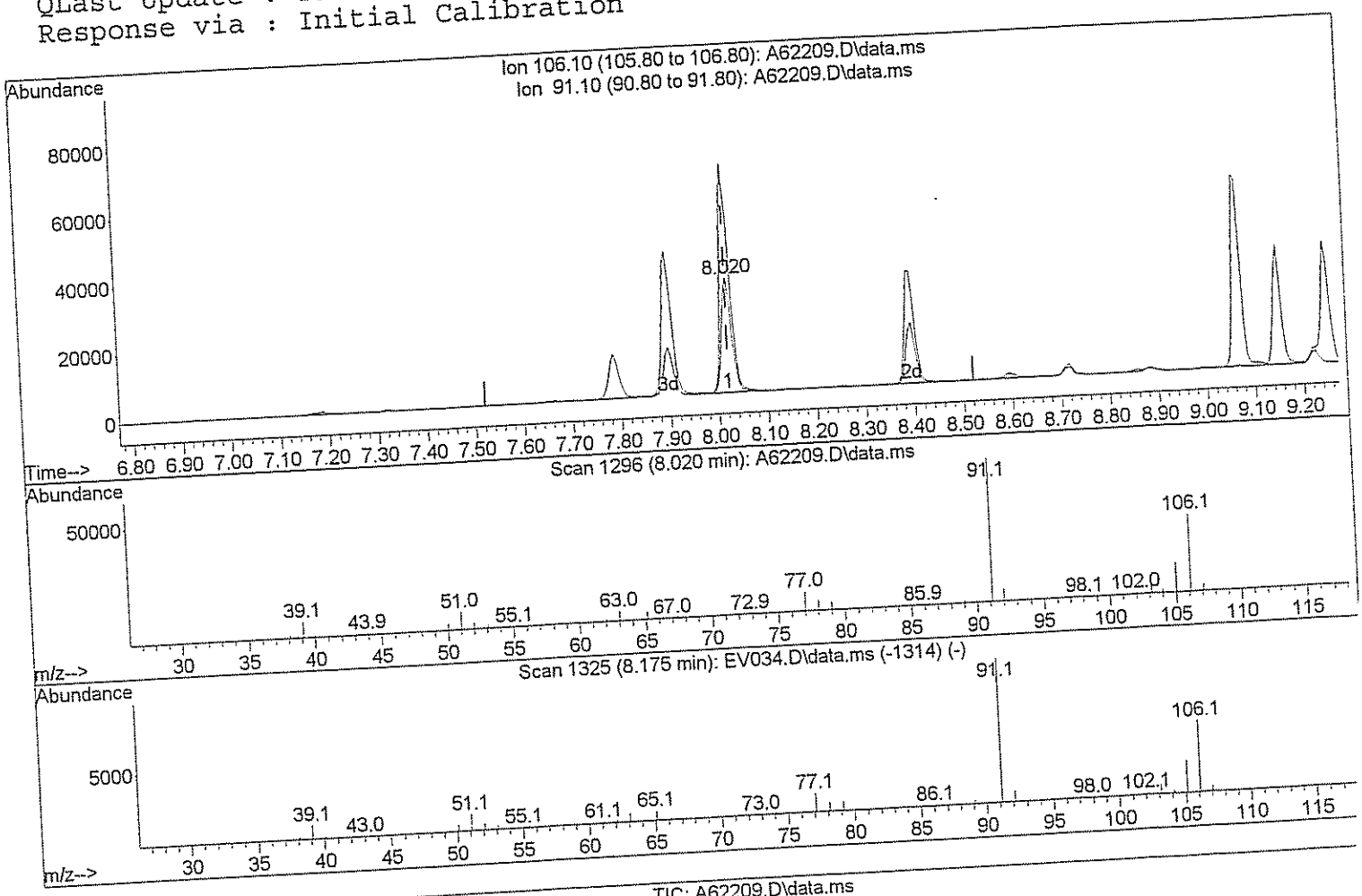
response 47385

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



(72) Xylene (Total)

8.020min (+0.000) 12.36 ug/L m

response 70685

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.45#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	553220	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	454496	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	419468	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	145754	48.73	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.46%			
54) Toluene-d8	6.142	98	518648	48.17	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.34%			
76) 4-Bromofluorobenzene	8.881	95	198881	50.11	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.22%			
92) 1,2-Dichlorobenzene-d4	10.085	152	191647	47.67	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 95.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.188	85	22683	21.82	ug/L	97
3) Chloromethane	1.327	50	38383m	20.68	ug/L	
4) Vinyl chloride	1.397	62	42503	18.03	ug/L #	74
5) Bromomethane	1.622	94	21911	20.64	ug/L	87
6) Chloroethane	1.691	64	31385	19.31	ug/L	93
7) Trichlorofluoromethane	1.841	101	62310	18.86	ug/L	95
8) Ethyl Ether	2.044	59	36511	16.98	ug/L	96
9) Freon 113	2.183	101	38442	21.06	ug/L	90
10) Acrolein	2.189	56	34430	84.02	ug/L #	64
11) Tert-Butyl alcohol	2.670	59	80163	309.29	ug/L #	47
12) 1,1-Dichloroethene	2.210	96	37050	17.23	ug/L	86
13) Iodomethane	2.333	142	44272	24.05	ug/L	93
14) Acetonitrile	2.483	40	206871	139.91	ug/L #	1
15) Methylene chloride	2.595	84	47036	18.14	ug/L	97
16) Trans-1,2-dichloroethene	2.756	96	43592	17.46	ug/L	86
17) Isopropyl ether	3.093	45	172315	17.62	ug/L	99
18) 1,1-Dichloroethane	3.109	63	81435	17.48	ug/L	99
19) Acetone	2.296	43	31043	32.22	ug/L	99
20) Methyl Acetate	4.259	43	40988	22.85	ug/L #	100
21) MTBE	2.740	73	116553	17.36	ug/L	100
22) Carbon disulfide	2.360	76	130326	18.68	ug/L	100
24) Acrylonitrile	2.831	53	63684	86.41	ug/L	97
25) Chloroprene	3.146	53	74629	17.82	ug/L	92
26) n-Heptane	4.441	71	41645m	21.62	ug/L	
27) 2,2-Dichloropropane	3.553	77	65546	17.57	ug/L #	78
28) Cis-1,2-dichloroethene	3.580	96	51423	18.07	ug/L	100

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	98727m	35.66	ug/L		
30) Propionitrile	3.735	54	61322	162.62	ug/L		98
31) Bromochloromethane	3.783	128	23720	17.41	ug/L		92
32) Tetrahydrofuran	3.788	72	10883	18.06	ug/L	#	22
33) Chloroform	3.836	83	78218	15.79	ug/L		99
34) Cyclohexane	3.938	56	82196	19.97	ug/L		94
35) 1,1,1-Trichloroethane	3.959	97	67891	17.72	ug/L		98
36) Carbon tetrachloride	4.066	117	58586	17.41	ug/L		99
37) Methacrylonitrile	3.826	41	319463	153.51	ug/L	#	16
38) Methylcyclohexane	4.992	83	78324	20.75	ug/L		92
39) Isobutyl Alcohol	4.436	43	77335	452.45	ug/L		89
42) 2-Butanone	3.617	43	53217	33.16	ug/L		98
43) 1,1-Dichloropropene	4.099	75	60167	17.60	ug/L		100
44) Vinyl Acetate	3.136	43	58557	16.36	ug/L	#	95
45) Benzene	4.286	78	186683	17.77	ug/L		100
46) 1,2-Dichloroethane	4.377	62	58822	17.72	ug/L	#	85
47) Trichloroethene	4.885	95	47885	18.47	ug/L		98
48) 1,2-Dichloropropane	5.163	63	47828	17.38	ug/L		96
49) Methyl methacrylate	5.265	69	31100	17.47	ug/L		93
50) Dibromomethane	5.281	93	26649	16.54	ug/L		100
51) Bromodichloromethane	5.431	83	60679	17.62	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	27174	27.32	ug/L		99
53) Cis-1,3-dichloropropene	5.917	75	73064	16.84	ug/L		97
55) Toluene	6.217	92	120757	17.25	ug/L		97
56) Trans-1,3-dichloropropene	6.570	75	65209	16.50	ug/L		98
57) Ethyl methacrylate	6.624	69	58889	17.54	ug/L		94
58) 1,1,2-Trichloroethane	6.773	83	35068	17.24	ug/L		99
60) 4-Methyl-2-pentanone	6.094	43	95219	37.44	ug/L		95
61) 2-Hexanone	7.062	43	65905	35.06	ug/L	#	98
62) Tetrachloroethene	6.795	166	47752	17.78	ug/L		99
63) 1,3-Dichloropropane	6.971	76	66347	17.70	ug/L		93
64) Dibromochloromethane	7.185	129	48825	17.81	ug/L		95
65) 1,2-Dibromoethane	7.314	107	41606	18.45	ug/L		98
66) 1-Chlorohexane	7.785	91	68657	18.67	ug/L		98
67) Chlorobenzene	7.806	112	137741	17.81	ug/L		92
68) 1,1,1,2-Tetrachloroethane	7.908	131	48936	17.09	ug/L		94
69) Ethylbenzene	7.897	91	233839	17.81	ug/L		99
70) m,p-Xylene	8.020	106	187997	35.38	ug/L		90
71) o-Xylene	8.394	106	94963	18.42	ug/L		88
72) Xylene (Total)	8.020	106	283667m	52.95	ug/L		
73) Styrene	8.421	104	156053	17.74	ug/L		96
74) Bromoform	8.598	173	29487	16.98	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

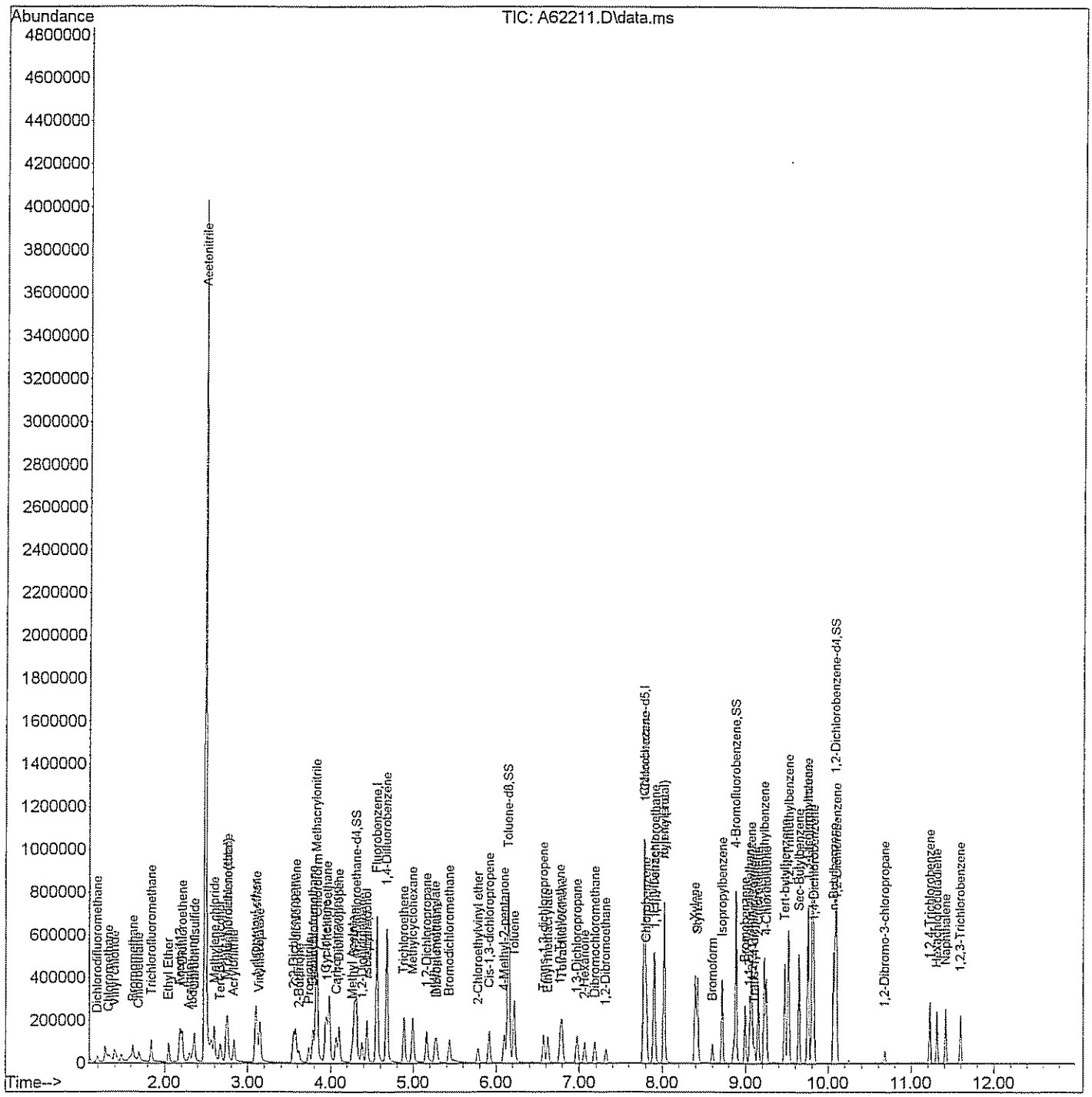
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	200704	17.88 ug/L	98
77) Bromobenzene	8.994	156	54693	17.85 ug/L	99
78) 1,1,2,2-Tetrachloroethane	9.047	83	51631	17.71 ug/L	98
79) 1,2,3-Trichloropropane	9.085	110	15281	17.96 ug/L	98
80) n-Propylbenzene	9.068	91	277751	18.11 ug/L	98
81) Trans-1,4-dichloro-2-b...	9.106	53	10745	14.15 ug/L #	1
82) 2-Chlorotoluene	9.149	126	59122	18.39 ug/L	87
83) 4-Chlorotoluene	9.250	126	59717	17.79 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	195130	17.41 ug/L	95
85) Tert-butylbenzene	9.470	119	169553	17.29 ug/L	94
87) 1,2,4-Trimethylbenzene	9.518	105	198690	16.93 ug/L	92
88) Sec-Butylbenzene	9.641	105	260702	17.44 ug/L	99
89) 1,3-Dichlorobenzene	9.748	146	111192	16.52 ug/L	99
90) 4-Isopropyltoluene	9.753	119	224435	17.00 ug/L	98
91) 1,4-Dichlorobenzene	9.823	146	113933	17.23 ug/L	99
93) 1,2-Dichlorobenzene	10.101	146	104653	17.01 ug/L	98
94) n-Butylbenzene	10.063	91	210224	17.28 ug/L	95
95) 1,2-Dibromo-3-chloropr...	10.679	75	8530	16.76 ug/L	81
96) 1,2,4-Trichlorobenzene	11.224	180	60919	16.13 ug/L	99
97) Hexachlorobutadiene	11.305	225	28493	16.01 ug/L	96
98) Naphthalene	11.412	128	147178	16.20 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	51745	16.32 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

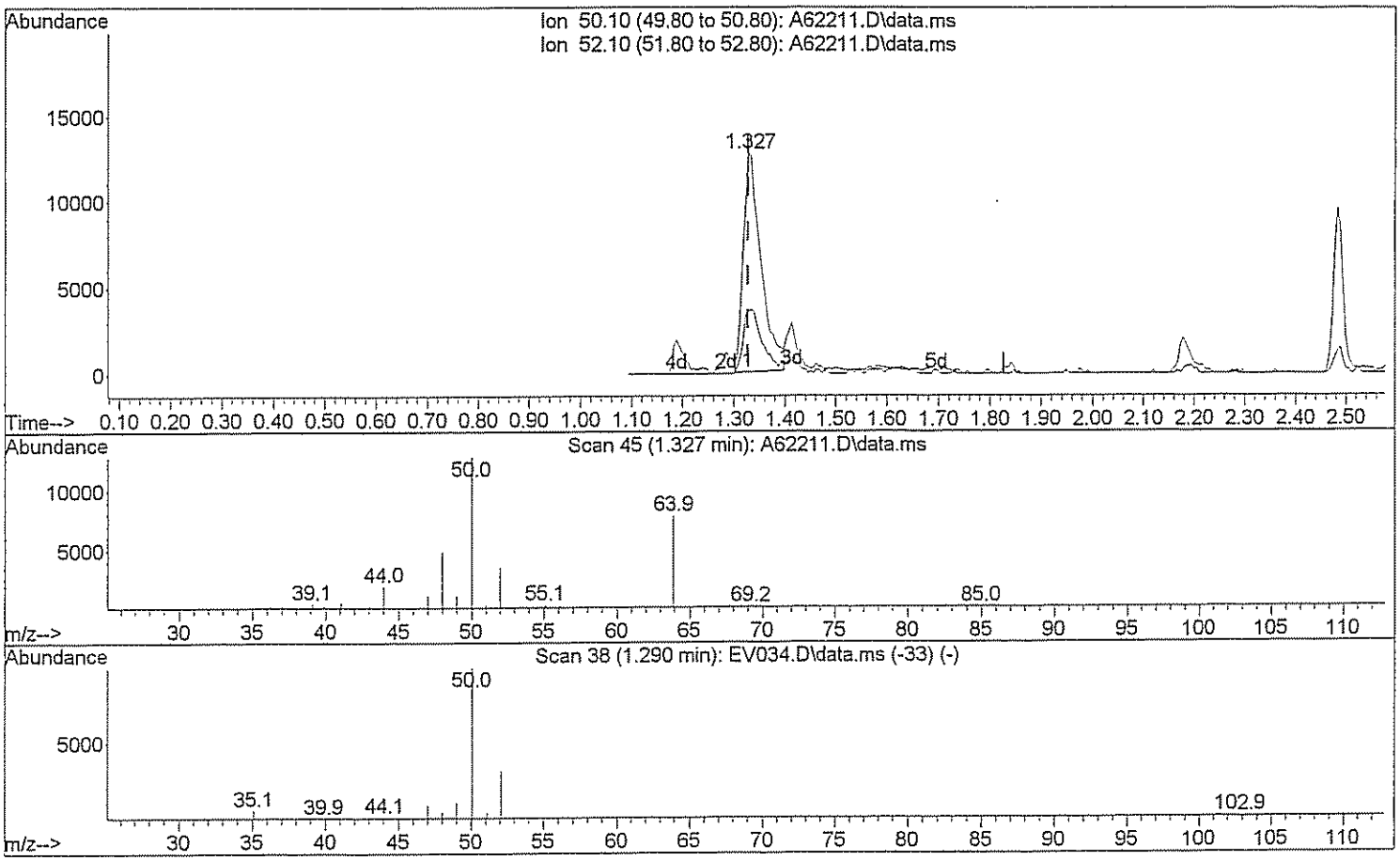
Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(3) Chloromethane

1.327min (-0.000) 16.63 ug/L

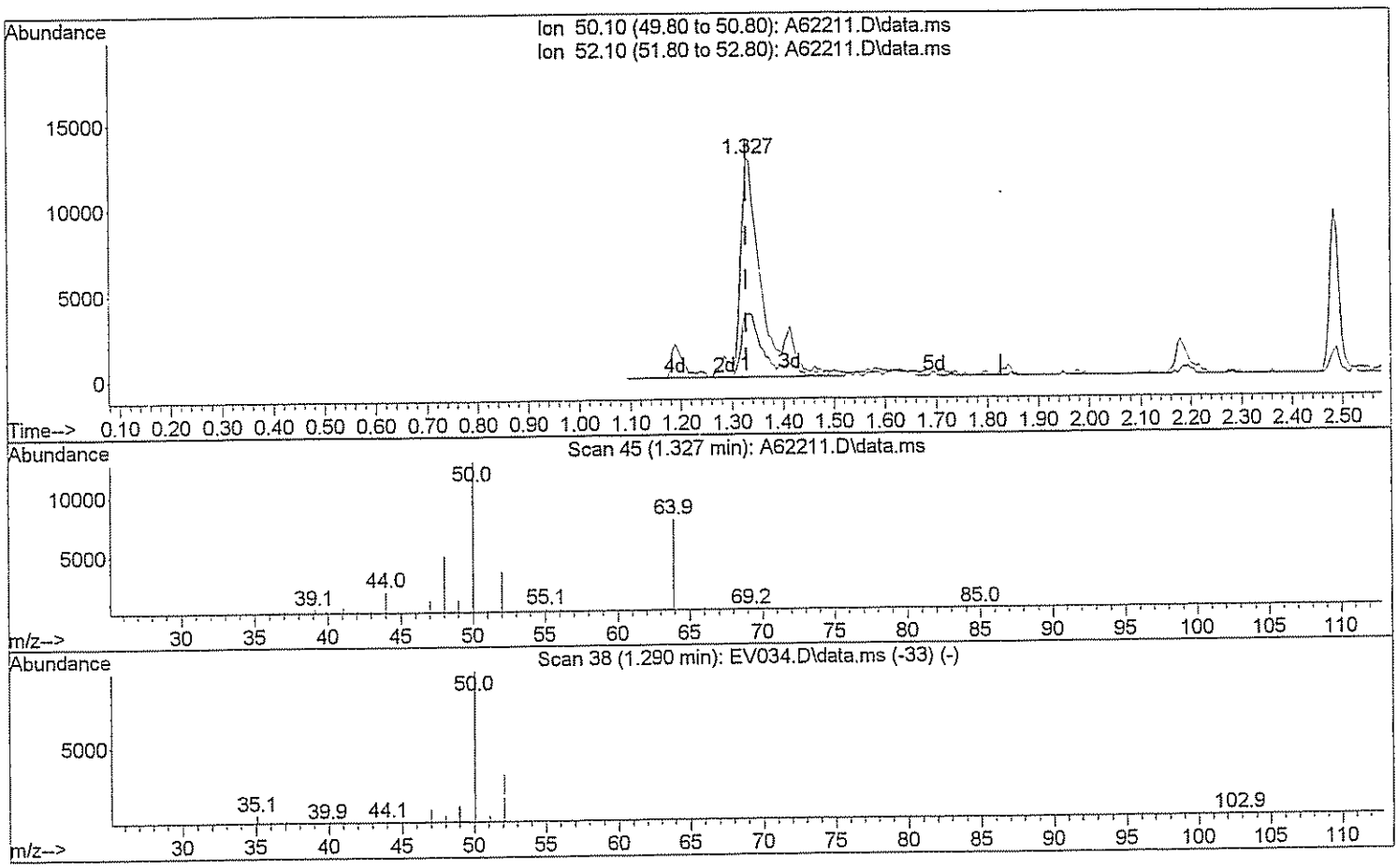
response 30866

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	31.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(3) Chloromethane

1.327min (-0.000) 20.68 ug/L m SM 3/17/09

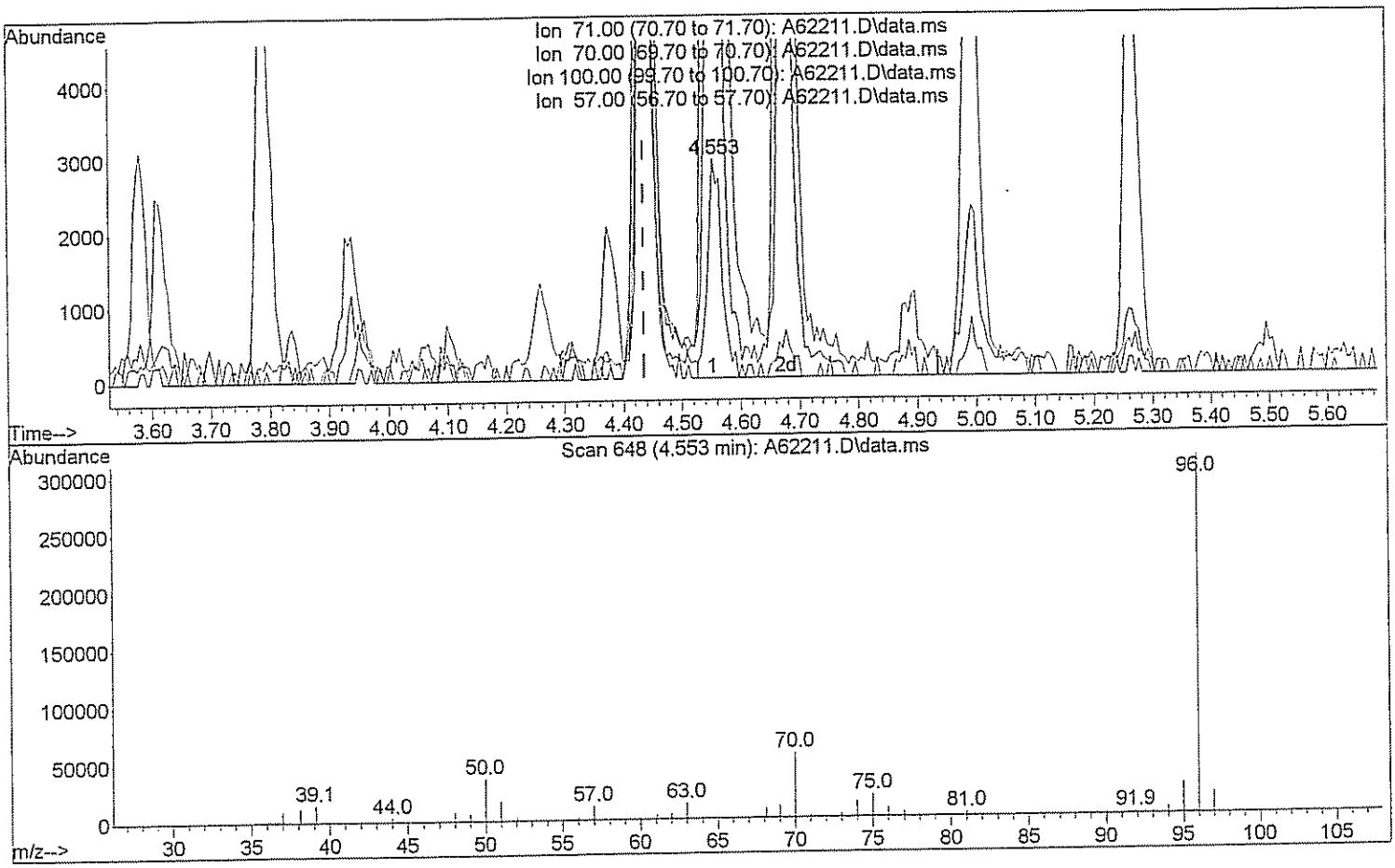
response 38383

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	24.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.60 ug/L

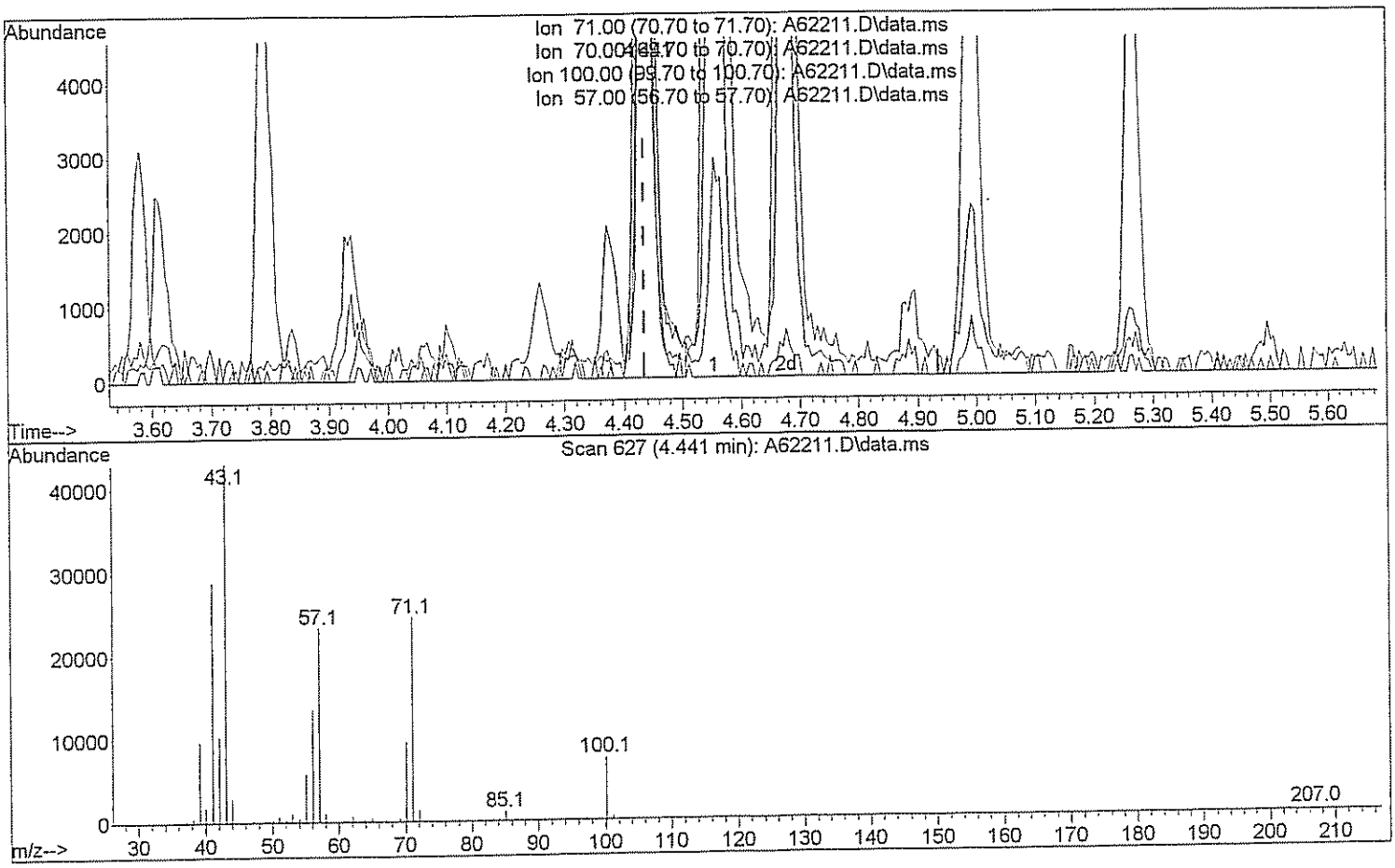
response 5014

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1952.27#
100.00	62.00	0.00#
57.00	40.00	404.87#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(26) n-Heptane (T)

4.441min (+0.005) 21.62 ug/L m

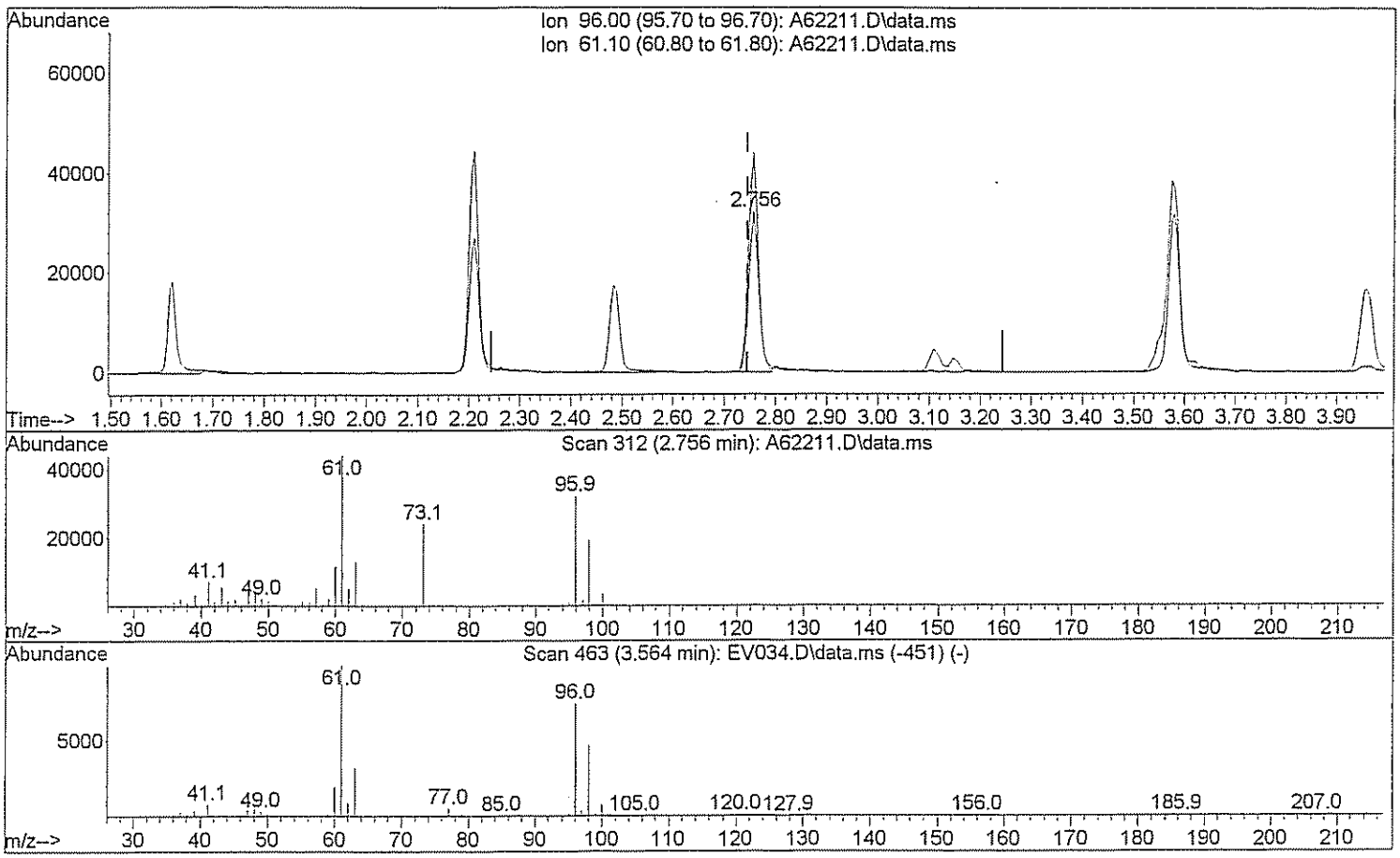
response 41645

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	235.05#
100.00	62.00	0.00#
57.00	40.00	48.75#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.011) 15.74 ug/L

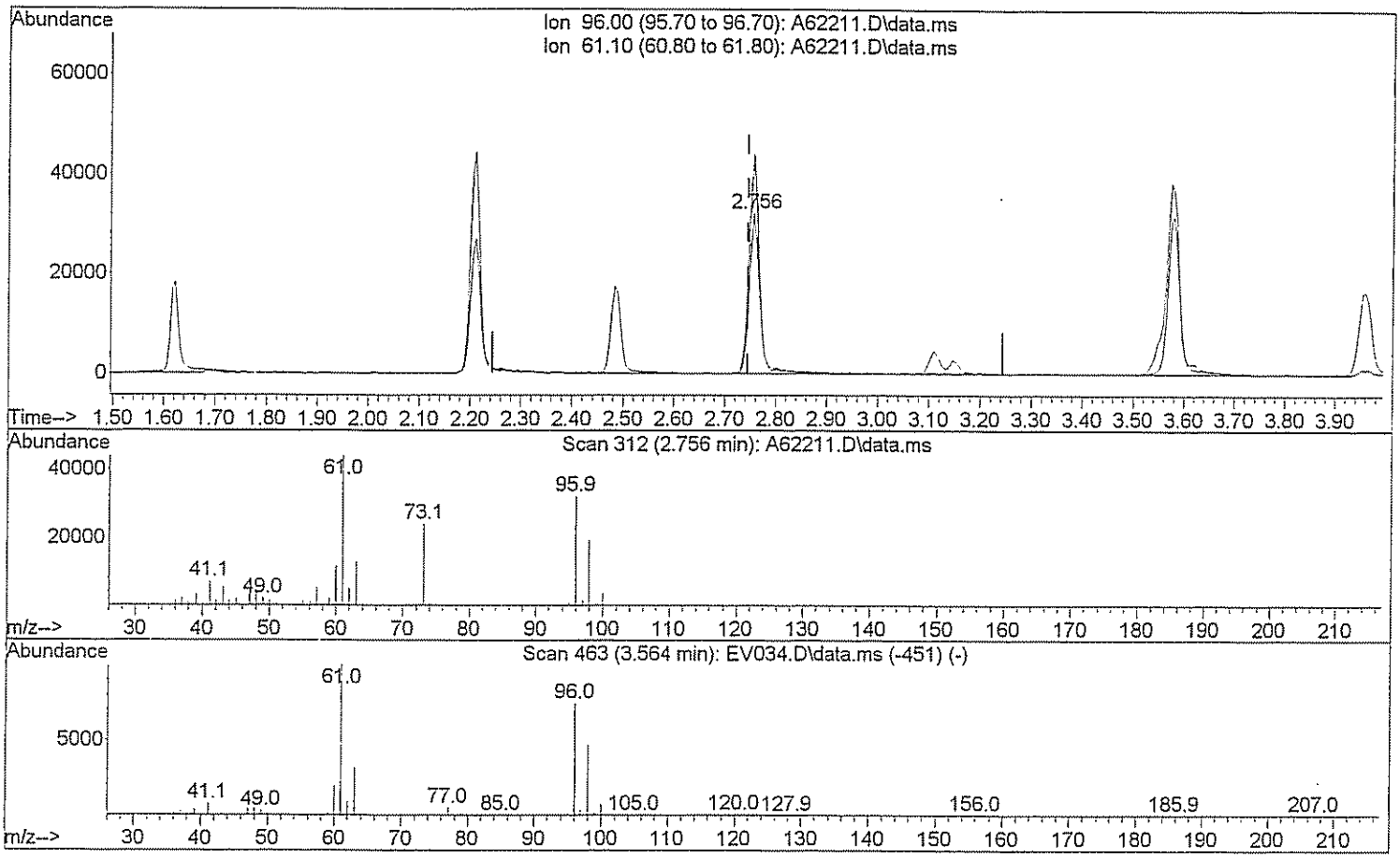
response 43592

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	136.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.011) 35.66 ug/L m DM 3/17/09

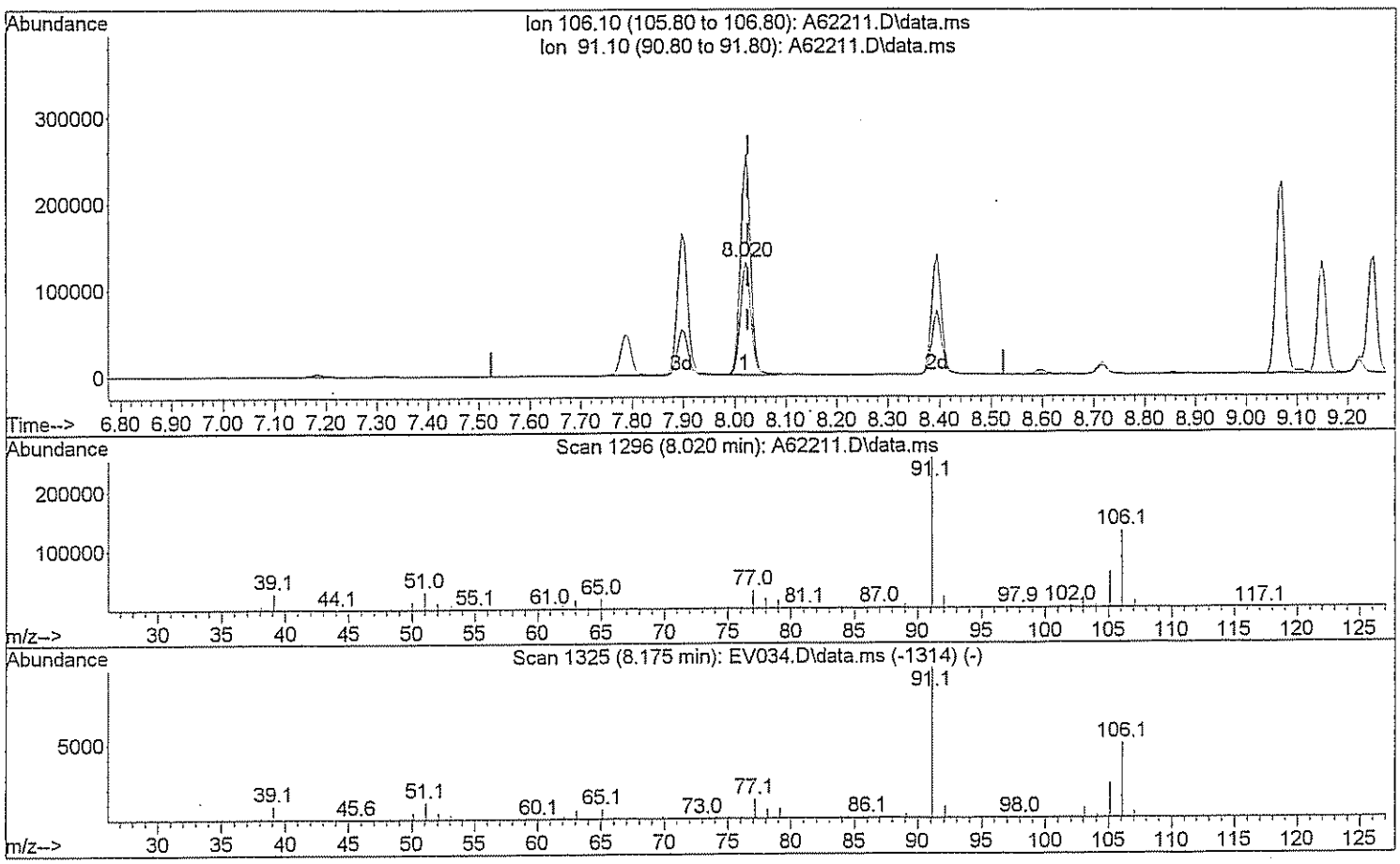
response 98727

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(72) Xylene (Total)

8.020min (-0.005) 35.09 ug/L

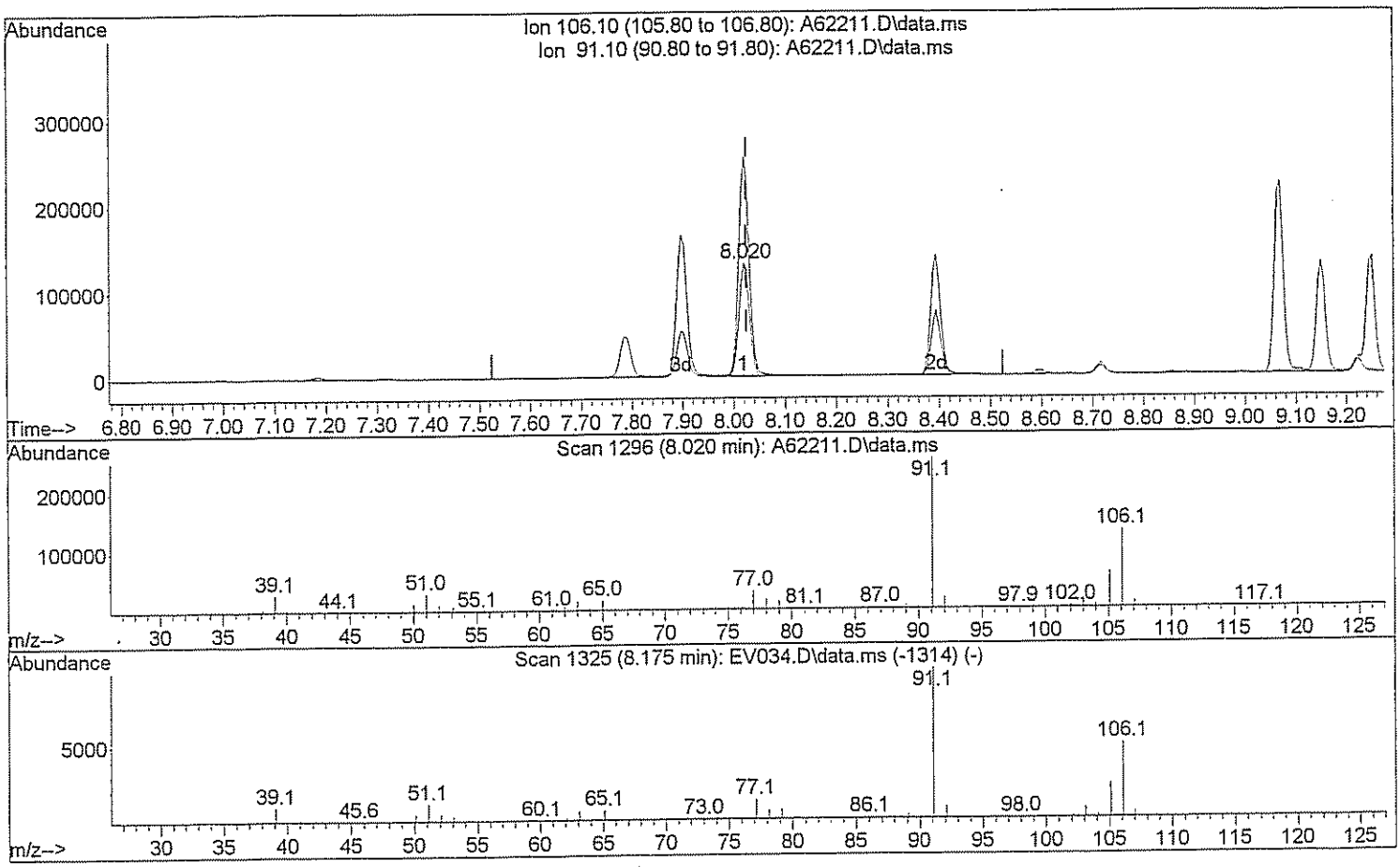
response 187997

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(72) Xylene (Total)

8.020min (-0.005) 52.95 ug/L m

response 283667

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.02#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	517488	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	422933	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	401270	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	136891	50.00	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.00%				
54) Toluene-d8	6.142	98	489895	50.00	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.00%				
76) 4-Bromofluorobenzene	8.881	95	191568	50.00	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.00%				
92) 1,2-Dichlorobenzene-d4	10.085	152	186765	50.00	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 100.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	50493	50.00	ug/L		99
3) Chloromethane	1.333	50	75038	50.00	ug/L		99
4) Vinyl chloride	1.392	62	109090	50.00	ug/L		89
5) Bromomethane	1.616	94	40459	50.00	ug/L		93
6) Chloroethane	1.681	64	73681	50.00	ug/L		98
7) Trichlorofluoromethane	1.830	101	150042	50.00	ug/L		99
8) Ethyl Ether	2.044	59	98047	50.00	ug/L		97
9) Freon 113	2.173	101	85406	50.00	ug/L		88
10) Acrolein	2.189	56	92821	250.00	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	267348	1000.00	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	97387	50.00	ug/L		88
13) Iodomethane	2.328	142	47106	50.00	ug/L		98
14) Acetonitrile	2.478	40	640731	500.00	ug/L	#	1
15) Methylene chloride	2.590	84	116172	50.00	ug/L		97
16) Trans-1,2-dichloroethene	2.750	96	114422	50.00	ug/L		88
17) Isopropyl ether	3.093	45	452281	50.00	ug/L		97
18) 1,1-Dichloroethane	3.104	63	212749	50.00	ug/L		100
19) Acetone	2.296	43	93893	100.00	ug/L		98
20) Methyl Acetate	4.259	43	132527	50.00	ug/L	#	100
21) MTBE	2.740	73	315419	50.00	ug/L		100
22) Carbon disulfide	2.349	76	315893	50.00	ug/L		100
24) Acrylonitrile	2.831	53	172844	250.00	ug/L		100
25) Chloroprene	3.146	53	183033	50.00	ug/L		89
26) n-Heptane	4.436	71	89309m	49.81	ug/L		
27) 2,2-Dichloropropane	3.548	77	172586	50.00	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	130958	50.00	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	2.750	96	250709m	99.75 ug/L	
30) Propionitrile	3.735	54	181196	500.00 ug/L	100
31) Bromochloromethane	3.778	128	61344	50.00 ug/L	94
32) Tetrahydrofuran	3.788	72	28703	50.00 ug/L #	1
33) Chloroform	3.836	83	206436	50.00 ug/L	99
34) Cyclohexane	3.933	56	185439	50.00 ug/L	92
35) 1,1,1-Trichloroethane	3.954	97	172467	50.00 ug/L	100
36) Carbon tetrachloride	4.061	117	150120	50.00 ug/L	97
37) Methacrylonitrile	3.826	41	905465	500.00 ug/L #	16
38) Methylcyclohexane	4.992	83	172498	50.00 ug/L	93
39) Isobutyl Alcohol	4.436	43	164334	1000.00 ug/L	90
42) 2-Butanone	3.612	43	156619	100.00 ug/L	96
43) 1,1-Dichloropropene	4.099	75	156550	50.00 ug/L	98
44) Vinyl Acetate	3.130	43	169548	50.00 ug/L	98
45) Benzene	4.280	78	472720	50.00 ug/L	100
46) 1,2-Dichloroethane	4.371	62	151934	50.00 ug/L #	85
47) Trichloroethene	4.885	95	117651	50.00 ug/L	92
48) 1,2-Dichloropropane	5.163	63	126153	50.00 ug/L	93
49) Methyl methacrylate	5.259	69	84950	50.00 ug/L	100
50) Dibromomethane	5.276	93	74340	50.00 ug/L	99
51) Bromodichloromethane	5.431	83	159151	50.00 ug/L	100
52) 2-Chloroethylvinyl ether	5.778	63	279014	200.00 ug/L	97
53) Cis-1,3-dichloropropene	5.912	75	198463	50.00 ug/L	99
55) Toluene	6.217	92	313028	50.00 ug/L	100
56) Trans-1,3-dichloropropene	6.570	75	182970	50.00 ug/L	97
57) Ethyl methacrylate	6.624	69	154204	50.00 ug/L	95
58) 1,1,2-Trichloroethane	6.773	83	93153	50.00 ug/L	99
60) 4-Methyl-2-pentanone	6.094	43	257968	100.00 ug/L	99
61) 2-Hexanone	7.062	43	190783	100.00 ug/L	98
62) Tetrachloroethene	6.789	166	122244	50.00 ug/L	95
63) 1,3-Dichloropropane	6.971	76	181121	50.00 ug/L	92
64) Dibromochloromethane	7.185	129	129242	50.00 ug/L	98
65) 1,2-Dibromoethane	7.314	107	108267	50.00 ug/L	97
66) 1-Chlorohexane	7.785	91	175461	50.00 ug/L	92
67) Chlorobenzene	7.806	112	363383	50.00 ug/L	89
68) 1,1,1,2-Tetrachloroethane	7.908	131	131724	50.00 ug/L	98
69) Ethylbenzene	7.897	91	604763	50.00 ug/L	98
70) m,p-Xylene	8.020	106	496360	100.00 ug/L	90
71) o-Xylene	8.394	106	241033	50.00 ug/L	93
72) Xylene (Total)	8.020	106	737592m	149.98 ug/L	
73) Styrene	8.421	104	410712	50.00 ug/L	95
74) Bromoform	8.598	173	85091	50.00 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

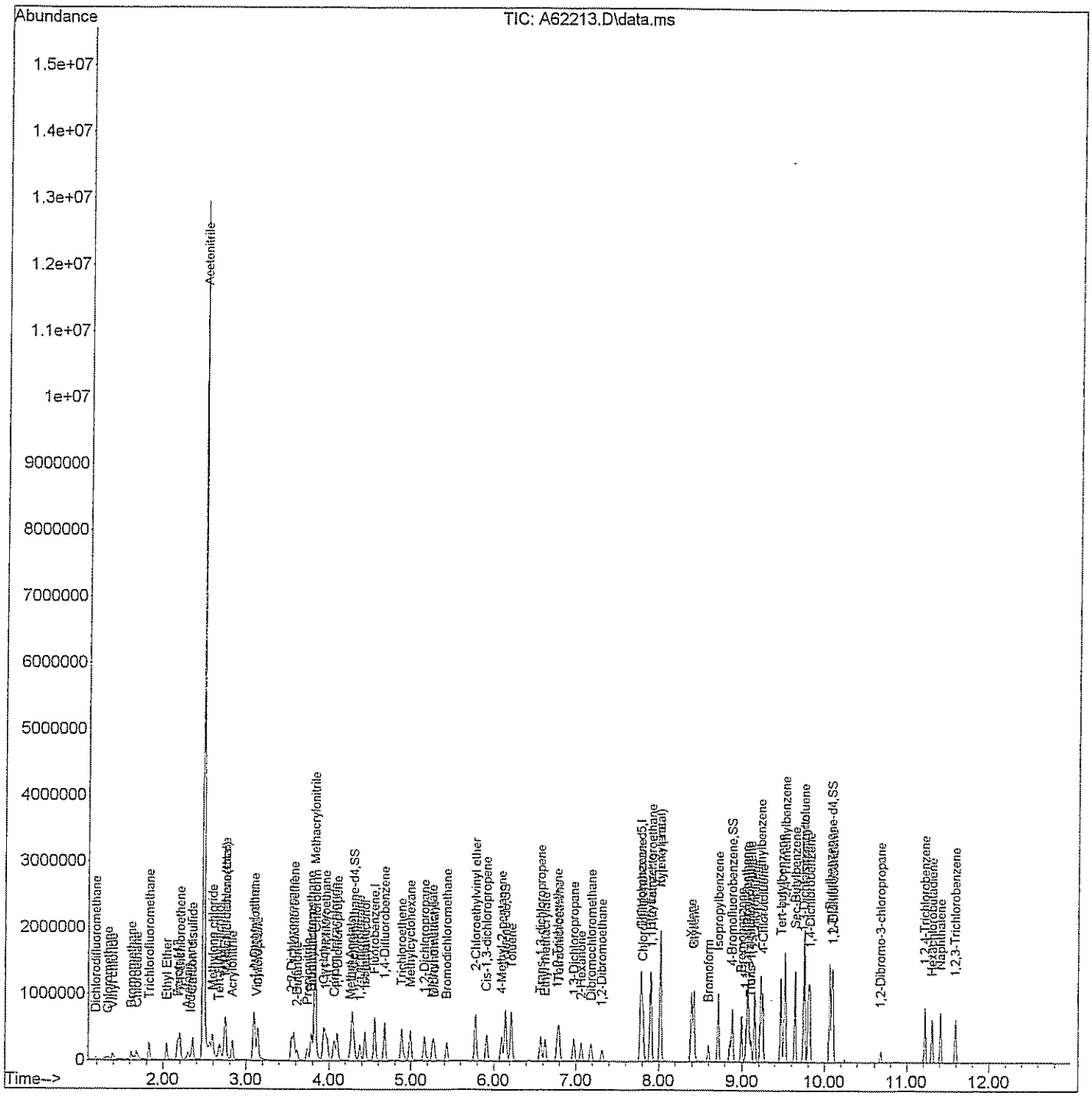
Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	521416	50.00	ug/L		97
77) Bromobenzene	8.994	156	142716	50.00	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	142875	50.00	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	41981	50.00	ug/L		97
80) n-Propylbenzene	9.063	91	719141	50.00	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	43806	50.00	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	154063	50.00	ug/L		86
83) 4-Chlorotoluene	9.250	126	156819	50.00	ug/L		92
84) 1,3,5-Trimethylbenzene	9.224	105	514134	50.00	ug/L		95
85) Tert-butylbenzene	9.470	119	450241	50.00	ug/L		97
87) 1,2,4-Trimethylbenzene	9.518	105	528715	50.00	ug/L		93
88) Sec-Butylbenzene	9.641	105	692528	50.00	ug/L		99
89) 1,3-Dichlorobenzene	9.743	146	296768	50.00	ug/L		98
90) 4-Isopropyltoluene	9.753	119	604752	50.00	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	300653	50.00	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	276122	50.00	ug/L		97
94) n-Butylbenzene	10.058	91	560174	50.00	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	24817	50.00	ug/L	#	78
96) 1,2,4-Trichlorobenzene	11.219	180	167452	50.00	ug/L		99
97) Hexachlorobutadiene	11.305	225	78952	50.00	ug/L		100
98) Naphthalene	11.412	128	442312	50.00	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	145394	50.00	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

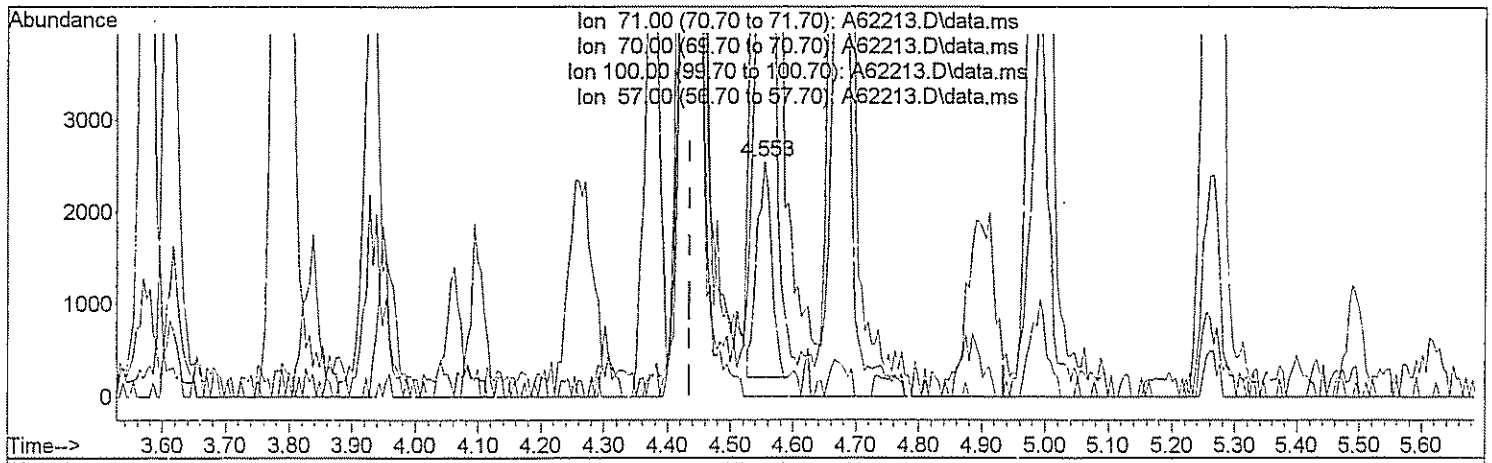
Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

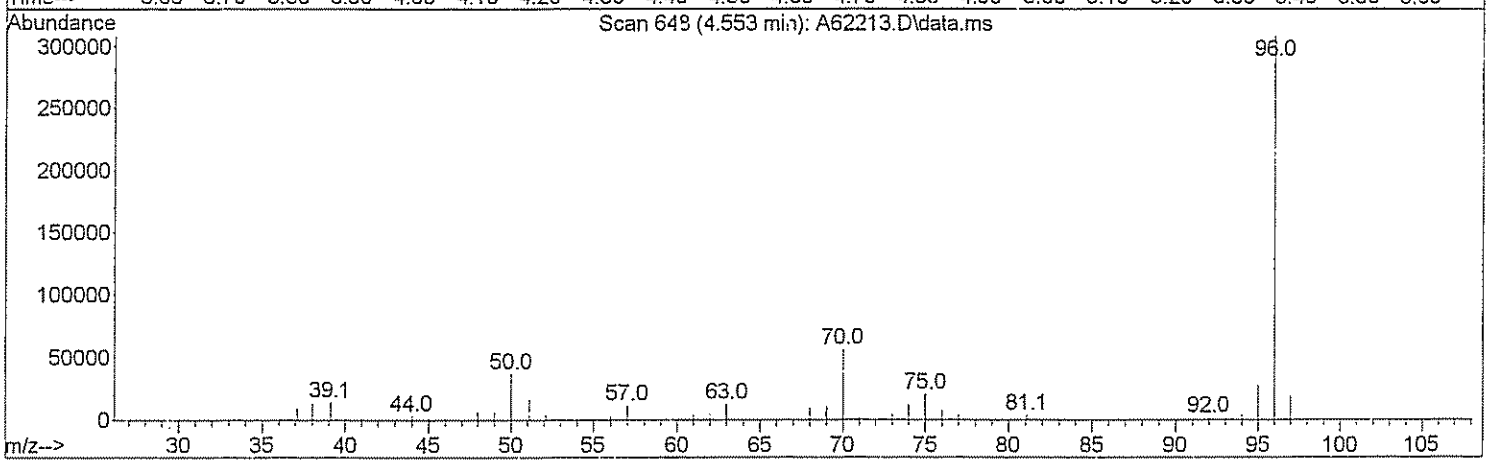


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration





TIC: A62213.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.13 ug/L

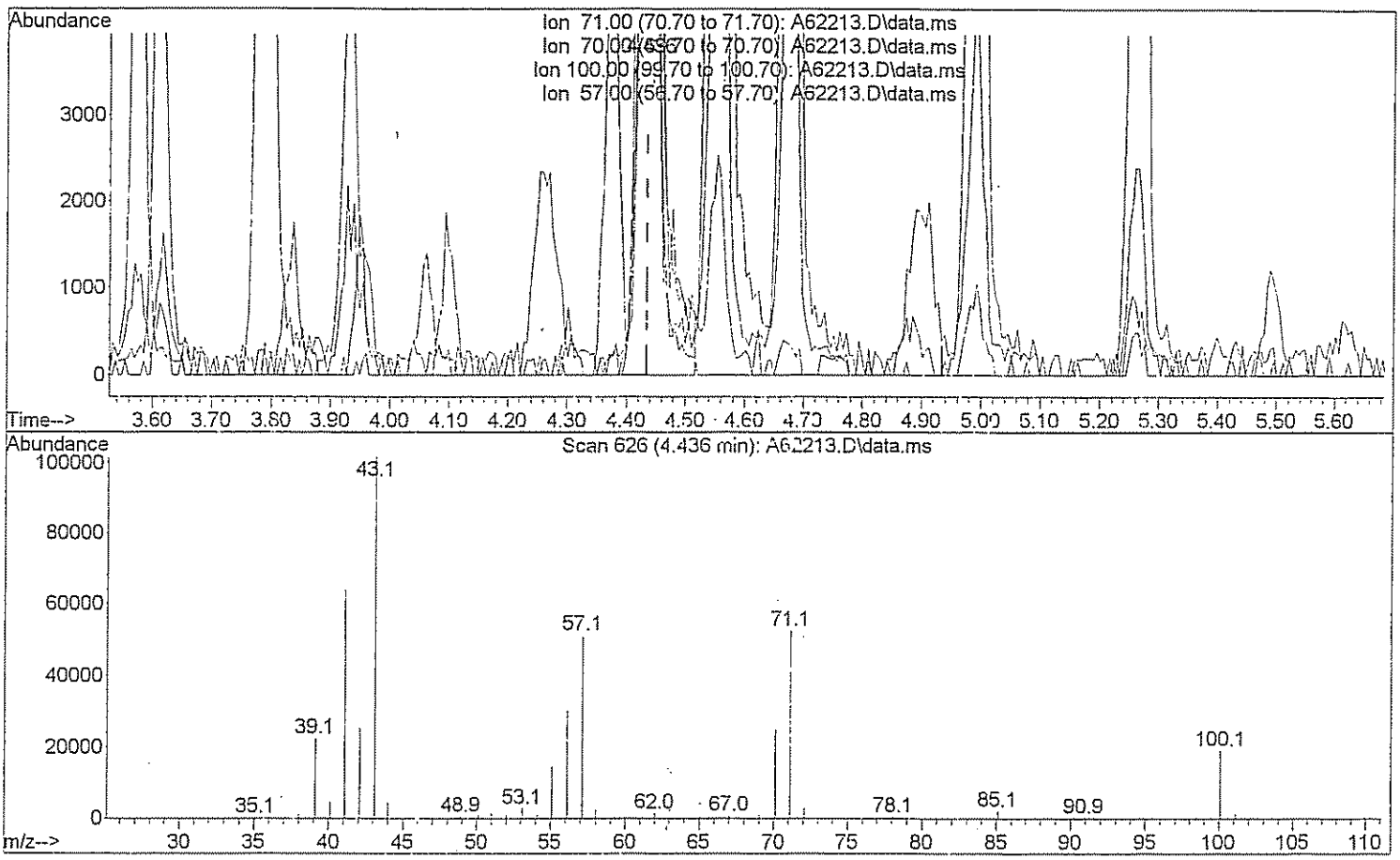
response 3811

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2353.53#
100.00	62.00	0.00#
57.00	40.00	501.02#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(26) n-Heptane (T)

4.436min (0.000) 49.81 ug/L m

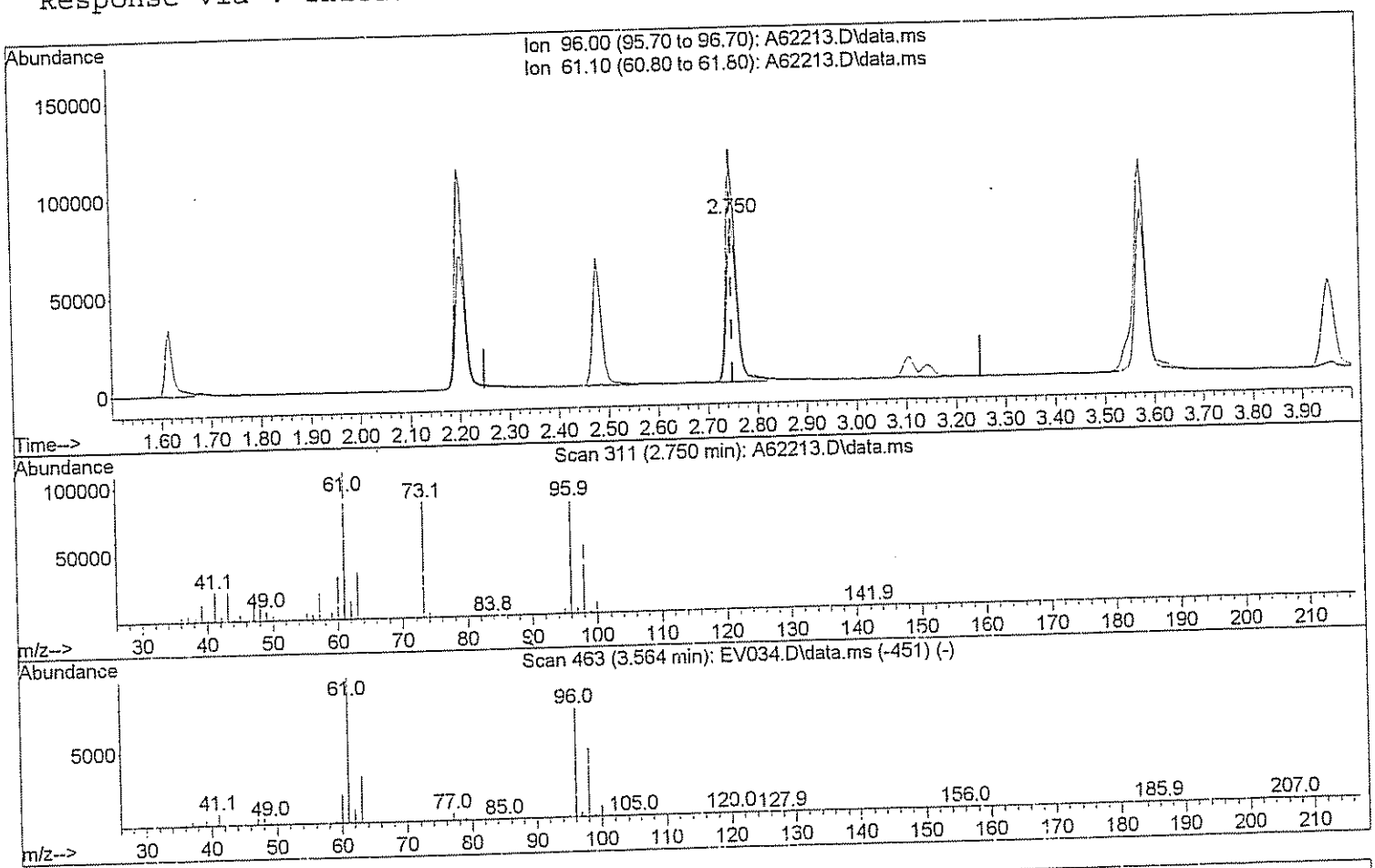
response 89309

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	100.43#
100.00	62.00	0.00#
57.00	40.00	21.38#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (0.000) 45.53 ug/L

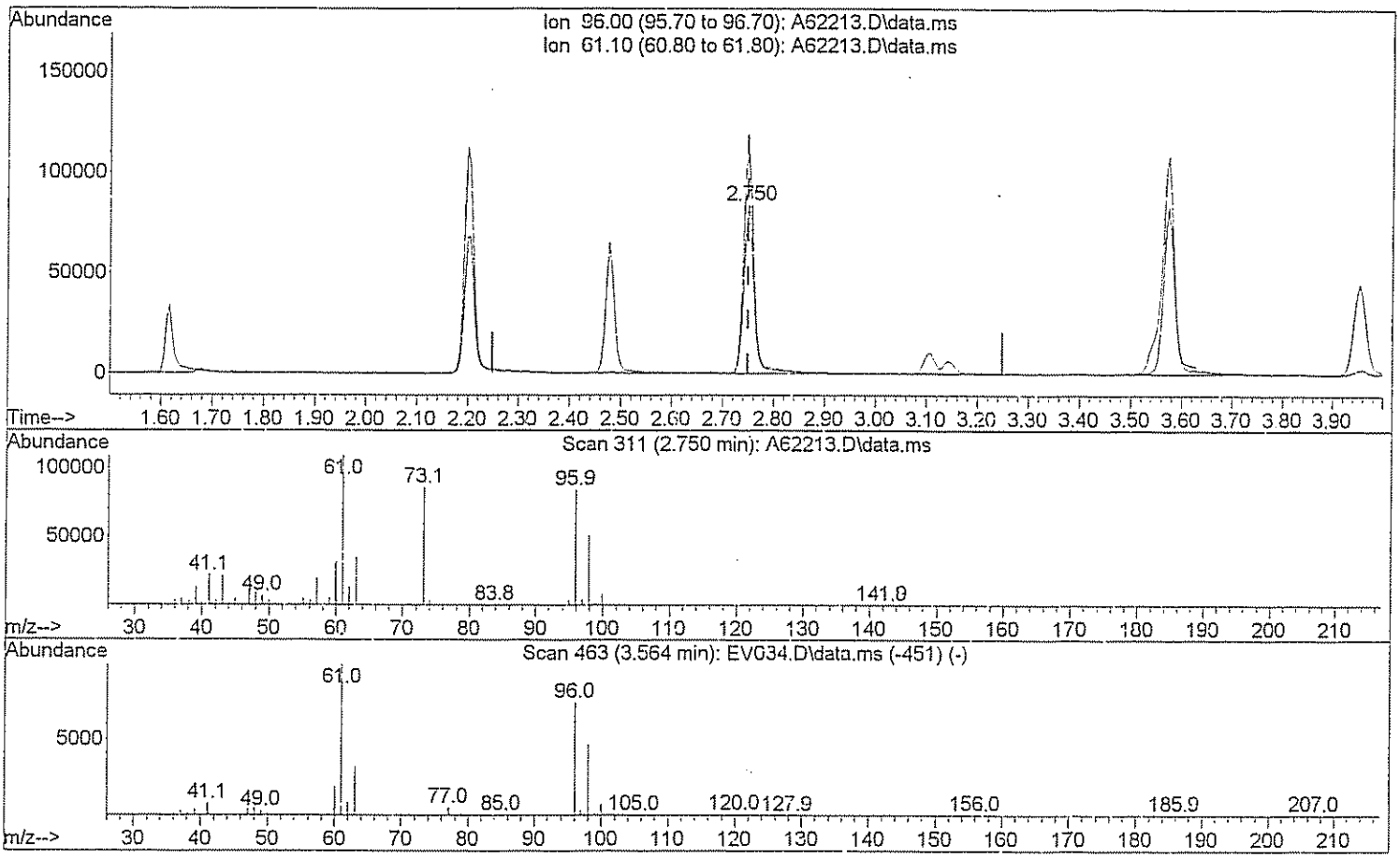
response 114422

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (0.000) 99.75 ug/L m JW 3/16/09

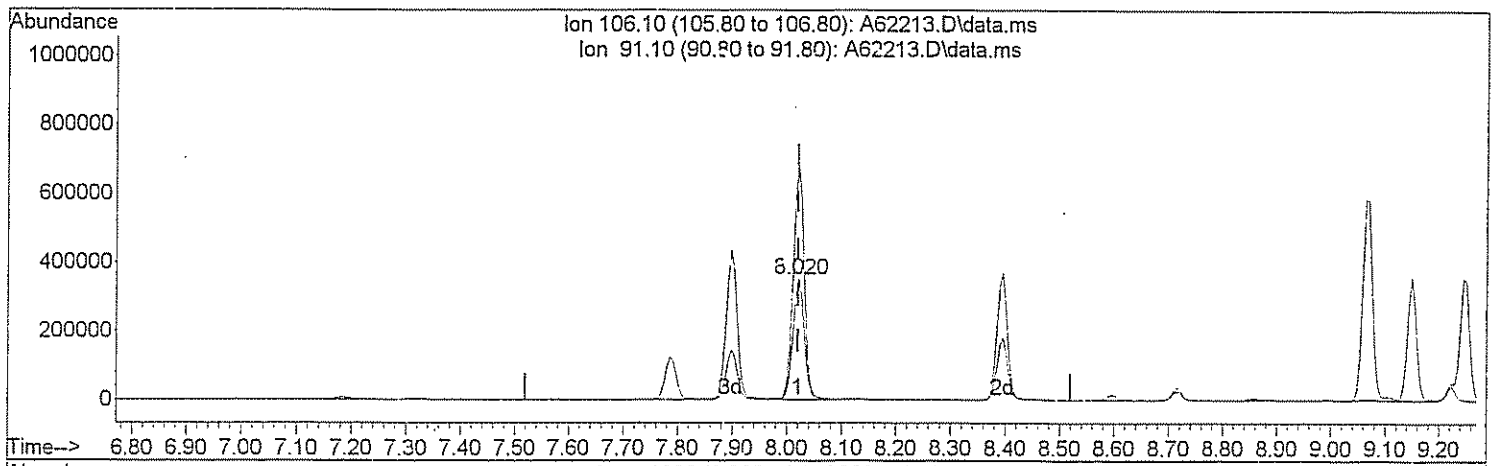
response 250709

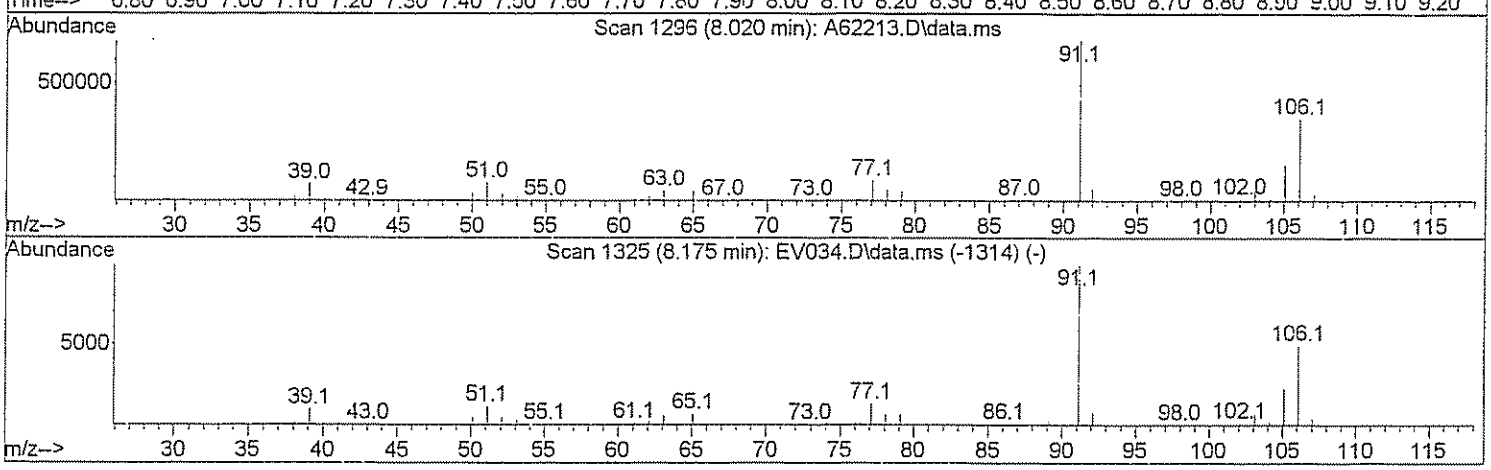
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	63.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration





TIC: A62213.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 100.93 ug/L

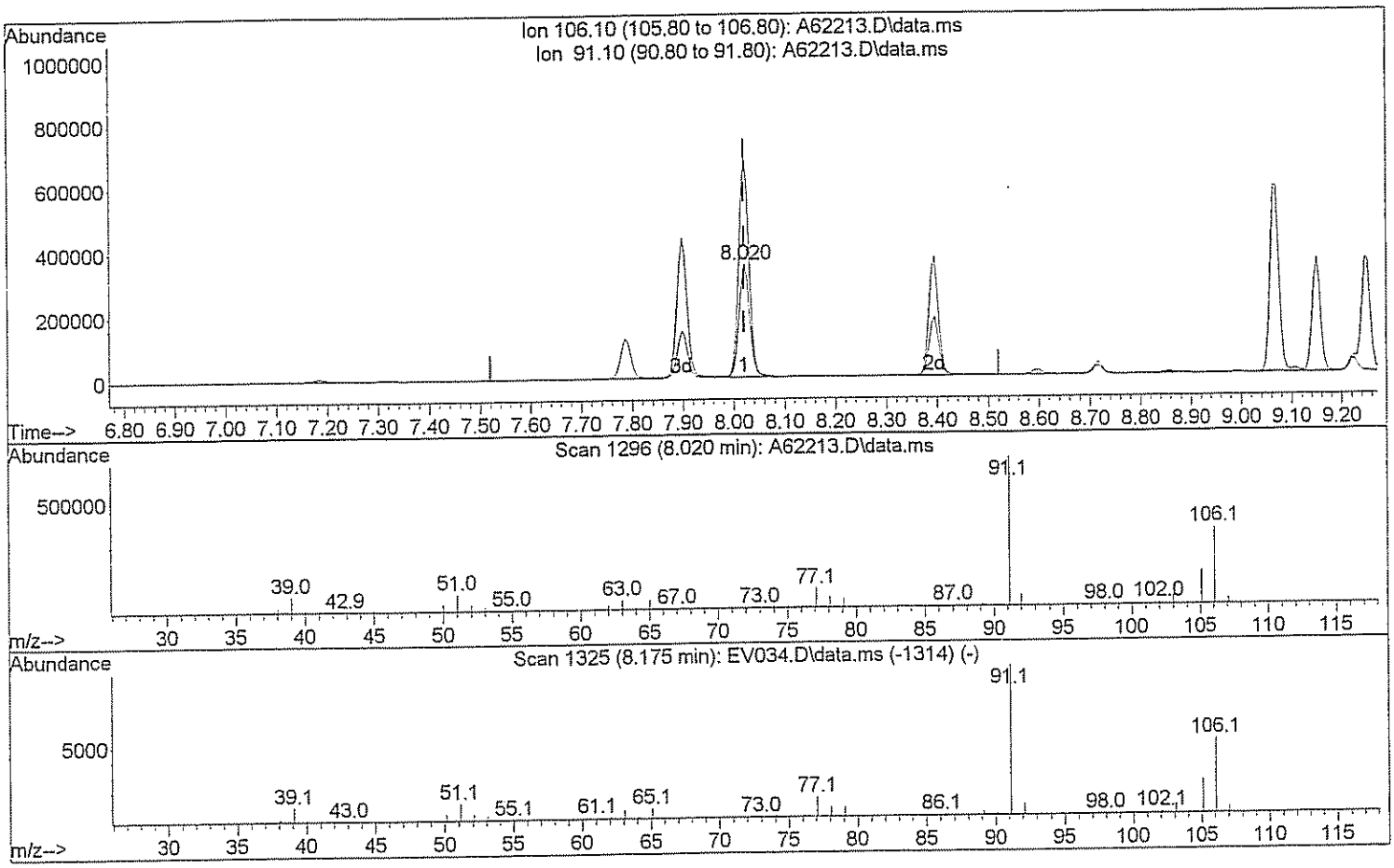
response 496360

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 149.98 ug/L m

response 737592

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.33#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	488113	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	402895	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	382461	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	129184	50.02	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.04%				
54) Toluene-d8	6.142	98	474149	50.80	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 101.60%				
76) 4-Bromofluorobenzene	8.881	95	182324	49.93	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.86%				
92) 1,2-Dichlorobenzene-d4	10.090	152	186080m	52.27	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 104.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	101899	106.98	ug/L		99
3) Chloromethane	1.327	50	155403	109.78	ug/L		99
4) Vinyl chloride	1.392	62	209191	101.65	ug/L		97
5) Bromomethane	1.616	94	111043	145.49	ug/L		87
6) Chloroethane	1.681	64	137679	99.05	ug/L		93
7) Trichlorofluoromethane	1.825	101	300088	106.02	ug/L		98
8) Ethyl Ether	2.044	59	183503	99.21	ug/L		96
9) Freon 113	2.173	101	180697	112.15	ug/L		89
10) Acrolein	2.189	56	170559	487.02	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	410388	1627.41	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	188294	102.49	ug/L		90
13) Iodomethane	2.328	142	241226	271.45	ug/L		98
14) Acetonitrile	2.478	40	1358379	1123.82	ug/L	#	1
15) Methylene chloride	2.590	84	229545	104.74	ug/L		100
16) Trans-1,2-dichloroethene	2.750	96	224781	104.14	ug/L		88
17) Isopropyl ether	3.093	45	872545	102.27	ug/L		100
18) 1,1-Dichloroethane	3.109	63	420716	104.83	ug/L		98
19) Acetone	2.301	43	164150	185.35	ug/L		96
20) Methyl Acetate	4.264	43	66527	26.61	ug/L	#	100
21) MTBE	2.740	73	589661	99.10	ug/L		100
22) Carbon disulfide	2.349	76	627594	105.31	ug/L		100
24) Acrylonitrile	2.836	53	303172	464.89	ug/L		100
25) Chloroprene	3.146	53	388959	112.65	ug/L		91
26) n-Heptane	4.436	71	179679m	106.65	ug/L		
27) 2,2-Dichloropropane	3.553	77	331997	101.97	ug/L	#	74
28) Cis-1,2-dichloroethene	3.580	96	256374	103.77	ug/L		97

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	484745m	204.99 ug/L		
30) Propionitrile	3.740	54	307367	899.20 ug/L		100
31) Bromochloromethane	3.783	128	119161	102.97 ug/L		91
32) Tetrahydrofuran	3.794	72	47686	88.07 ug/L	#	1
33) Chloroform	3.842	83	435779	111.90 ug/L		97
34) Cyclohexane	3.933	56	385205	110.11 ug/L		94
35) 1,1,1-Trichloroethane	3.960	97	334582	102.84 ug/L		98
36) Carbon tetrachloride	4.061	117	302357	106.77 ug/L		99
37) Methacrylonitrile	3.831	41	1721571	1007.87 ug/L	#	20
38) Methylcyclohexane	4.992	83	363723	111.77 ug/L		93
39) Isobutyl Alcohol	4.436	43	336613	2171.62 ug/L		89
42) 2-Butanone	3.617	43	268048	179.66 ug/L		98
43) 1,1-Dichloropropene	4.099	75	303893	101.89 ug/L		98
44) Vinyl Acetate	3.136	43	317561	98.31 ug/L		100
45) Benzene	4.281	78	931840	103.46 ug/L		100
46) 1,2-Dichloroethane	4.377	62	290421m	100.33 ug/L		
47) Trichloroethene	4.885	95	232664	103.80 ug/L		92
48) 1,2-Dichloropropane	5.163	63	245860	102.29 ug/L		97
49) Methyl methacrylate	5.265	69	148916	92.01 ug/L		96
50) Dibromomethane	5.281	93	138697	97.93 ug/L		98
51) Bromodichloromethane	5.431	83	302833	99.87 ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	184535	138.86 ug/L		97
53) Cis-1,3-dichloropropene	5.918	75	379910	100.47 ug/L		98
55) Toluene	6.217	92	614952	103.11 ug/L		97
56) Trans-1,3-dichloropropene	6.570	75	335781	96.32 ug/L		98
57) Ethyl methacrylate	6.624	69	288818	98.31 ug/L		96
58) 1,1,2-Trichloroethane	6.773	83	175100	98.66 ug/L		97
60) 4-Methyl-2-pentanone	6.099	43	441380	179.51 ug/L		99
61) 2-Hexanone	7.068	43	327869	180.31 ug/L		99
62) Tetrachloroethene	6.795	166	248012	106.43 ug/L		95
63) 1,3-Dichloropropane	6.977	76	337277	97.69 ug/L		92
64) Dibromochloromethane	7.185	129	247971	100.65 ug/L		99
65) 1,2-Dibromoethane	7.319	107	203221	98.47 ug/L		98
66) 1-Chlorohexane	7.790	91	337355	100.86 ug/L		92
67) Chlorobenzene	7.811	112	714834	103.20 ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.908	131	261629	104.19 ug/L		96
69) Ethylbenzene	7.902	91	1209808	104.94 ug/L		99
70) m,p-Xylene	8.025	106	991494	209.58 ug/L		90
71) o-Xylene	8.394	106	476964	103.81 ug/L		93
72) Xylene (Total)	8.025	106	1471853m	314.04 ug/L		
73) Styrene	8.427	104	812237	103.74 ug/L		95
74) Bromoform	8.598	173	152829	94.22 ug/L		100

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

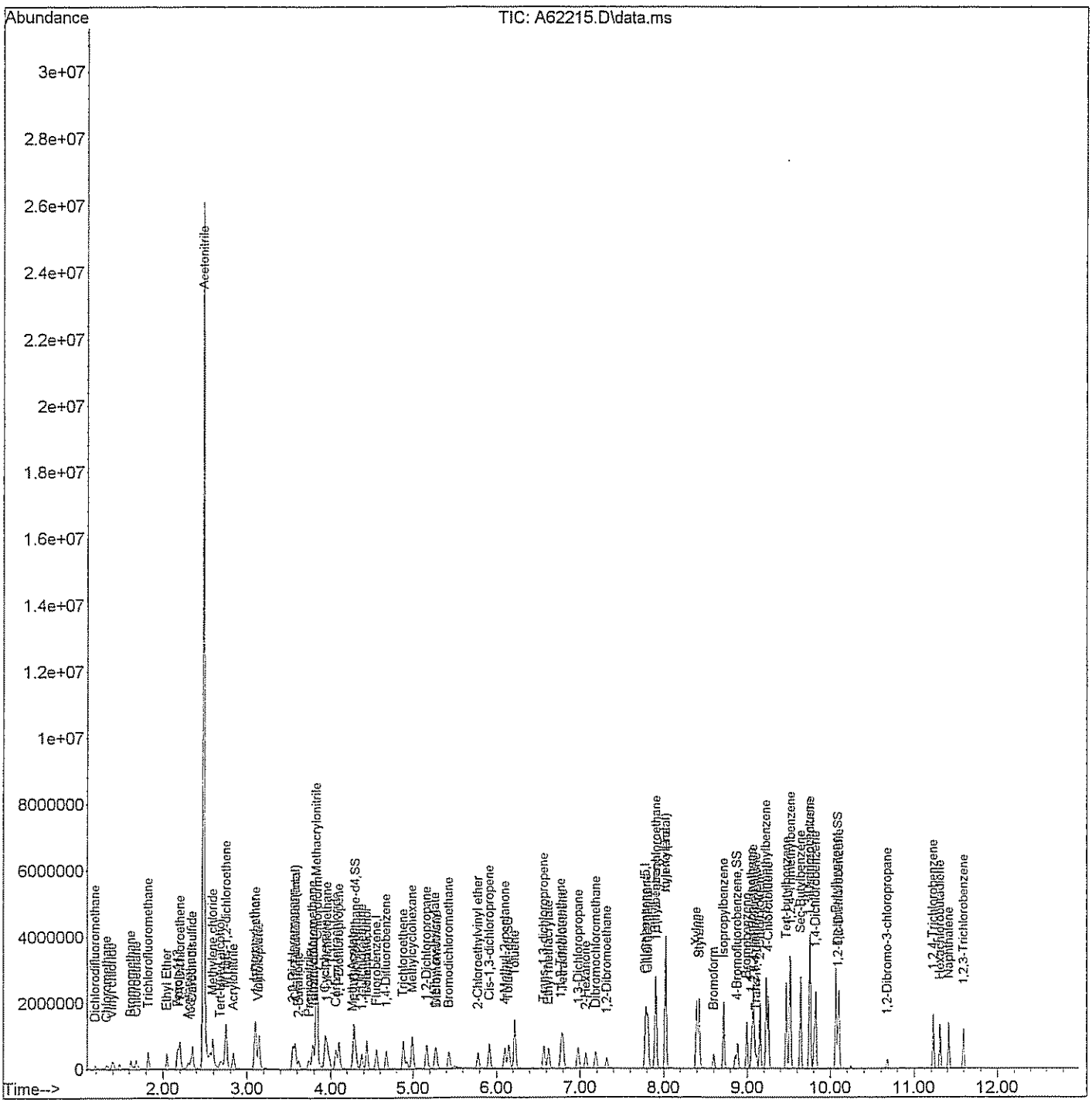
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	1046010	105.24	ug/L		99
77) Bromobenzene	8.994	156	282960	104.01	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.052	83	259312	95.21	ug/L		100
79) 1,2,3-Trichloropropane	9.085	110	75218	93.99	ug/L		99
80) n-Propylbenzene	9.068	91	1417344	103.39	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	56785	68.00	ug/L	#	23
82) 2-Chlorotoluene	9.154	126	296723	101.04	ug/L		89
83) 4-Chlorotoluene	9.250	126	310968	104.02	ug/L		93
84) 1,3,5-Trimethylbenzene	9.224	105	1047309	106.86	ug/L		95
85) Tert-butylbenzene	9.470	119	914746	106.58	ug/L		96
87) 1,2,4-Trimethylbenzene	9.523	105	1084517	107.61	ug/L		94
88) Sec-Butylbenzene	9.641	105	1404375	106.38	ug/L		99
89) 1,3-Dichlorobenzene	9.748	146	614964	108.71	ug/L		99
90) 4-Isopropyltoluene	9.759	119	1255344	108.89	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	612216	106.82	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	578388	109.88	ug/L		99
94) n-Butylbenzene	10.064	91	1147680	107.48	ug/L		96
95) 1,2-Dibromo-3-chloropr...	10.679	75	43888	92.77	ug/L	#	78
96) 1,2,4-Trichlorobenzene	11.224	180	346038	108.41	ug/L		98
97) Hexachlorobutadiene	11.305	225	164609	109.37	ug/L		98
98) Naphthalene	11.412	128	790325	93.73	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	284128	102.51	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

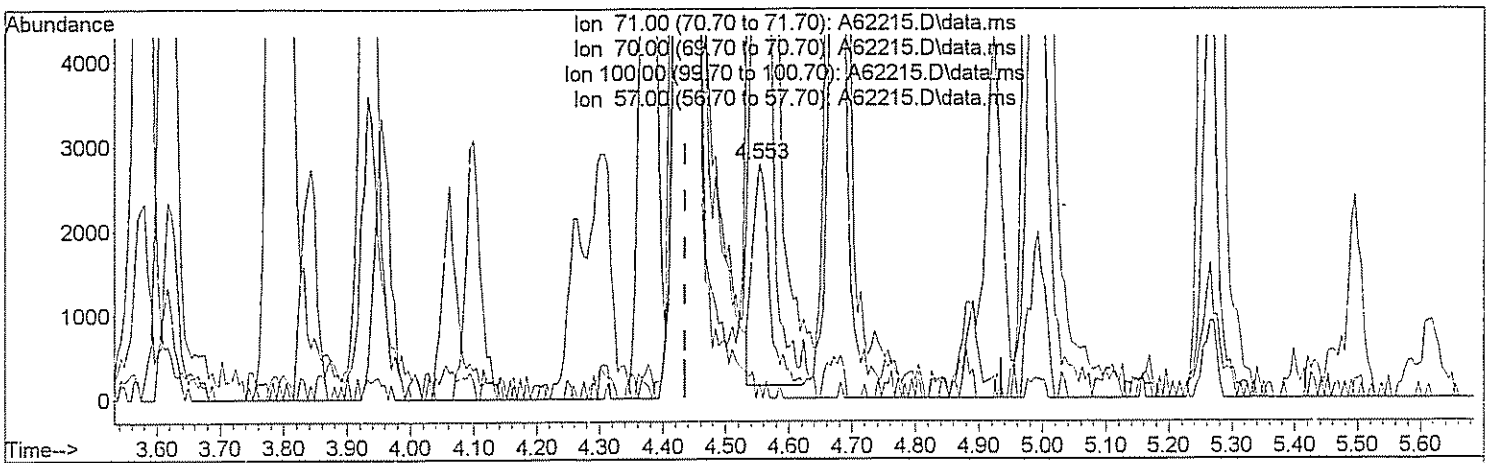
Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

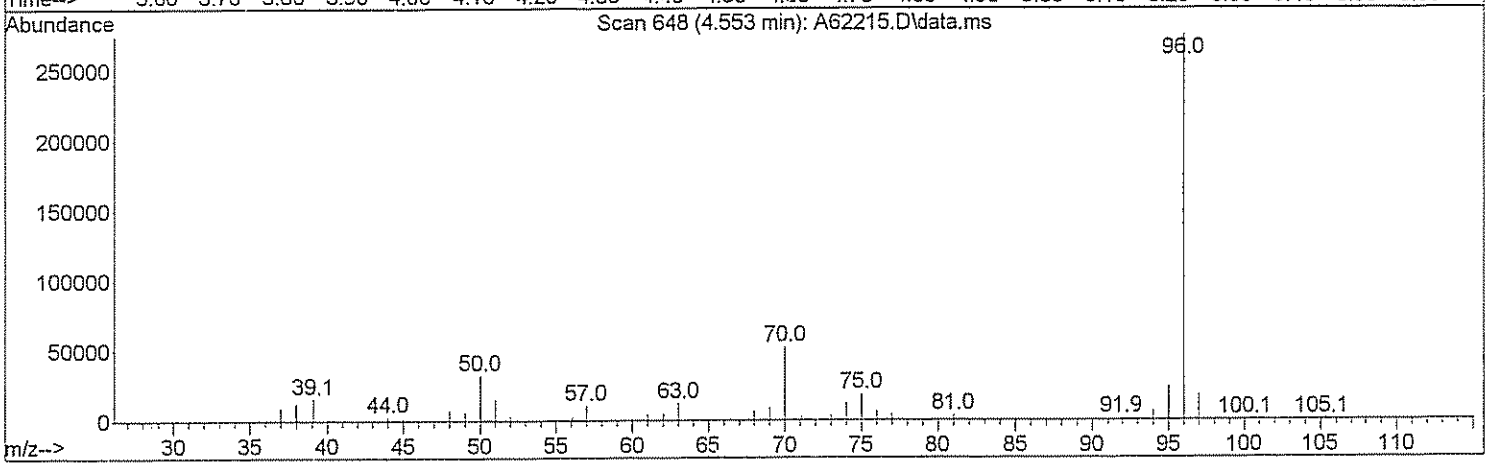


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration





TIC: A62215.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.89 ug/L

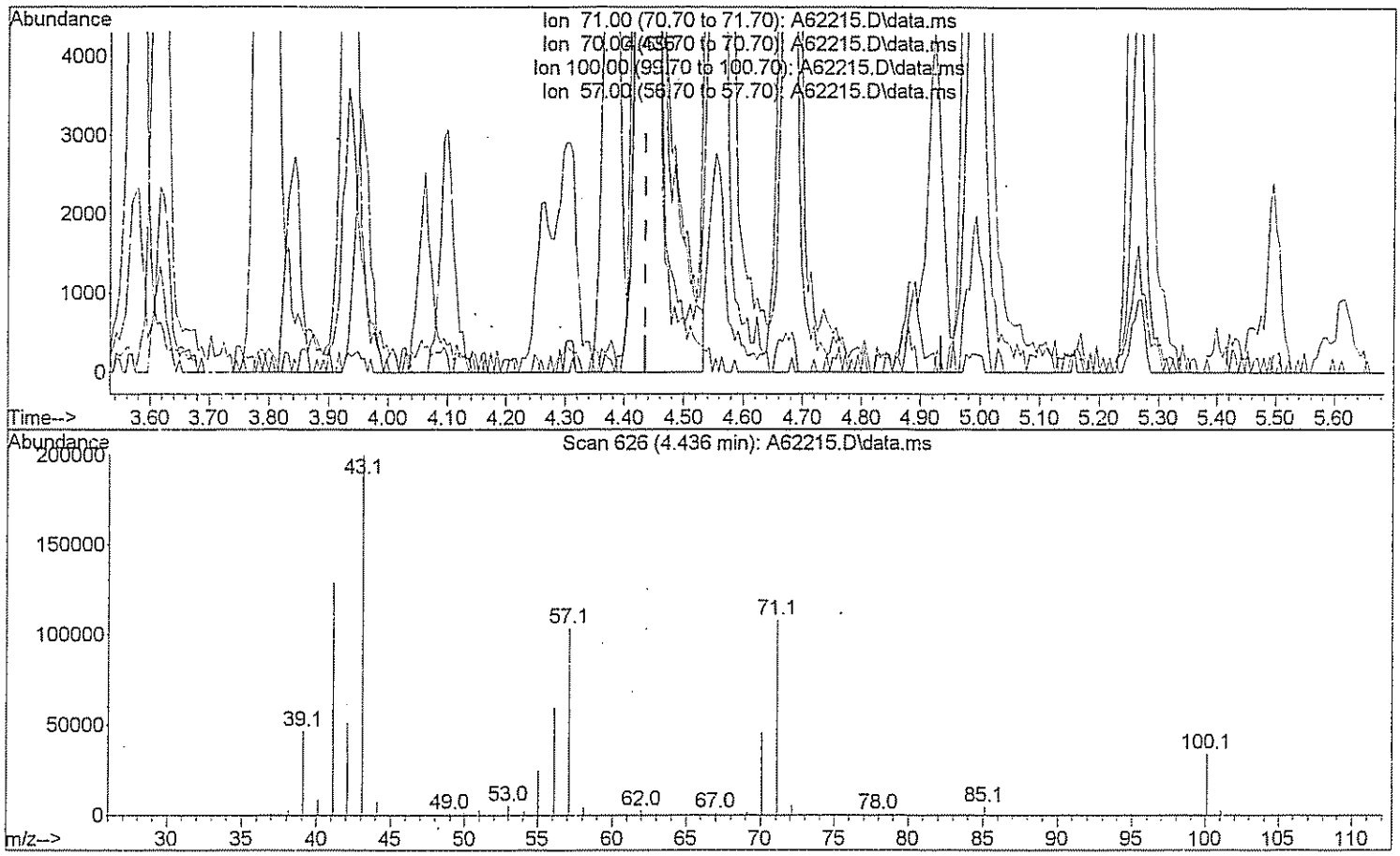
response 4871

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1781.01#
100.00	62.00	0.00#
57.00	40.00	395.26#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 106.65 ug/L m

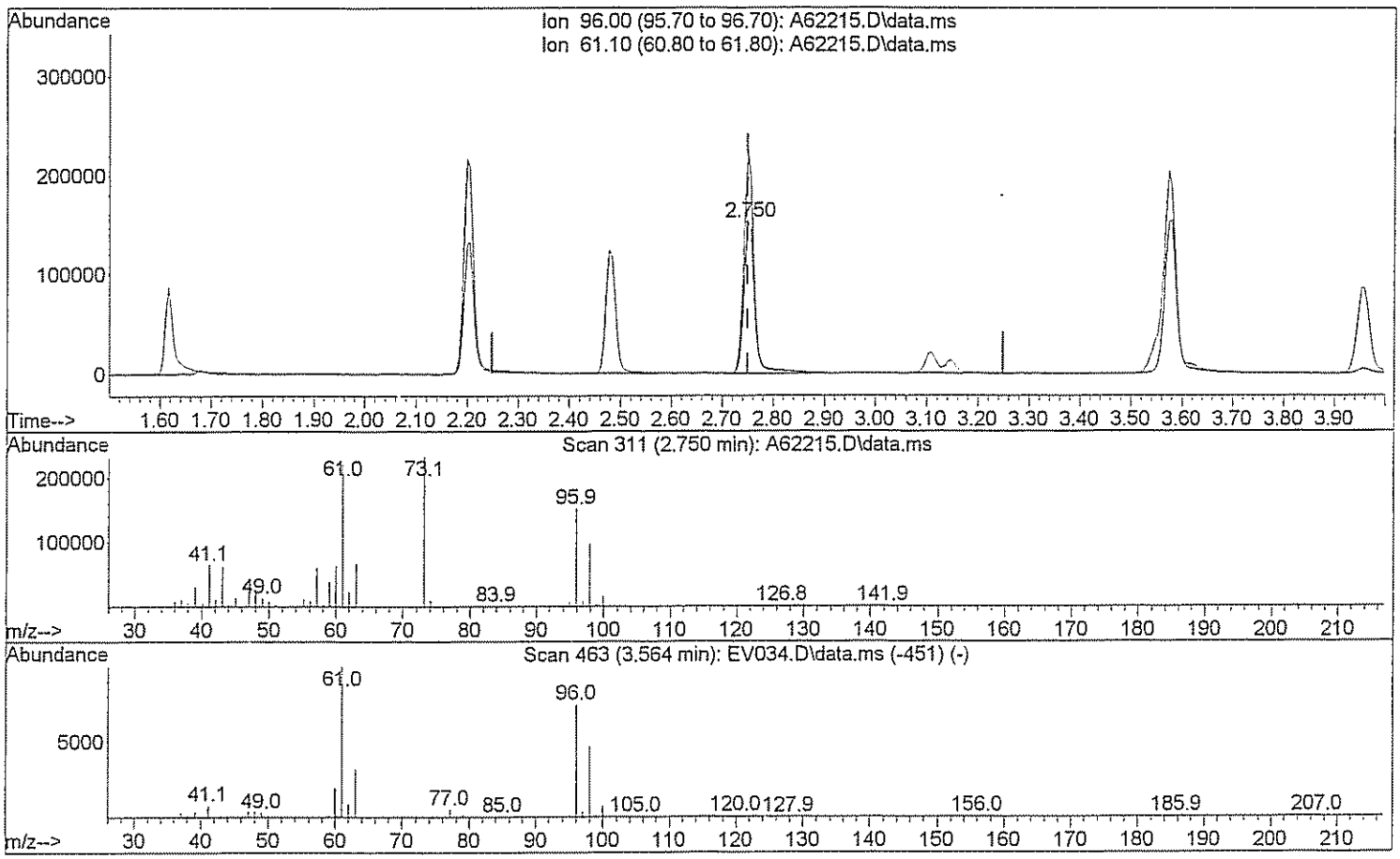
response 179679

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	48.28#
100.00	62.00	0.00#
57.00	40.00	10.72#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (+0.000) 95.05 ug/L

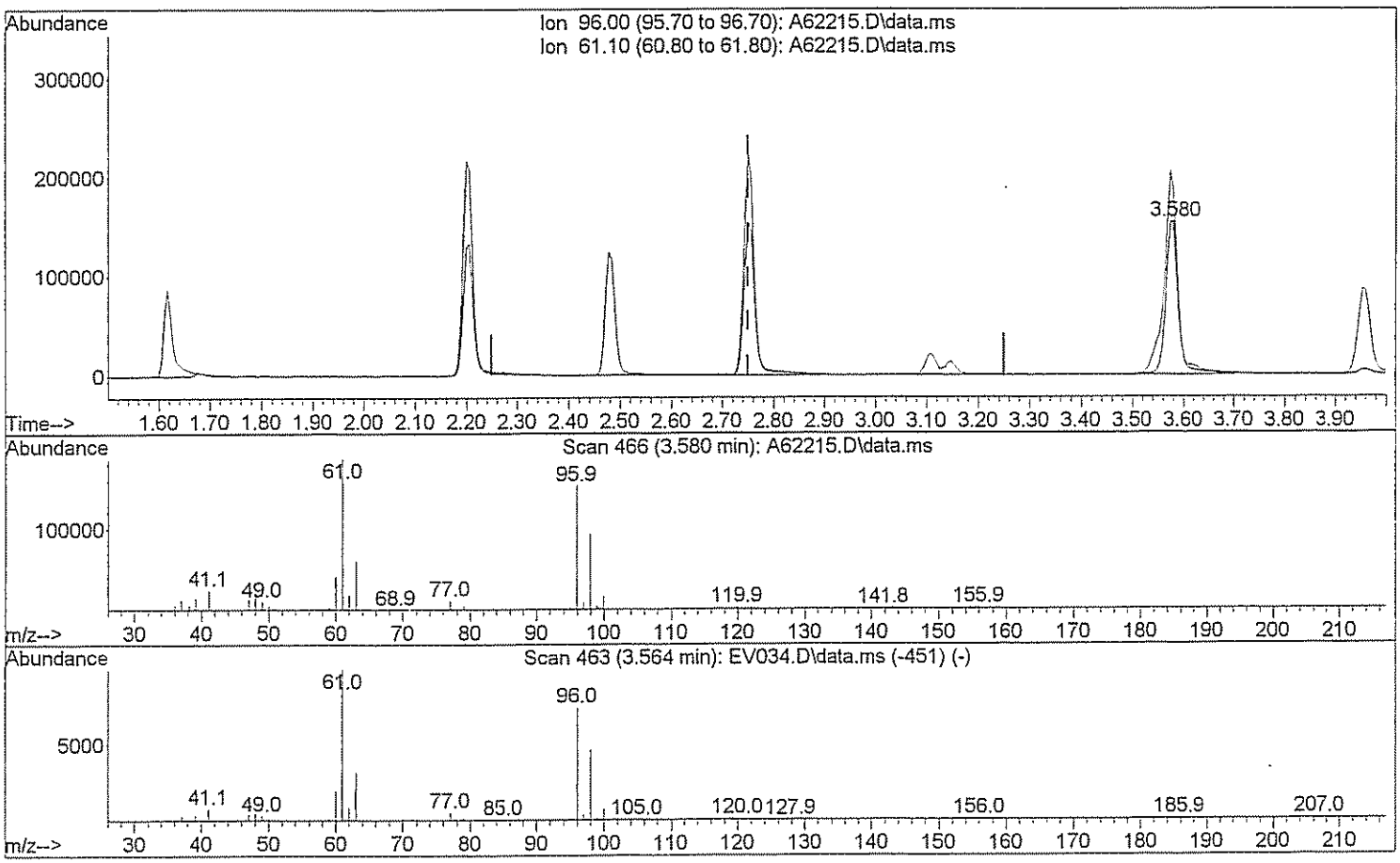
response 224781

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.829) 204.99 ug/L m DW3/16/09

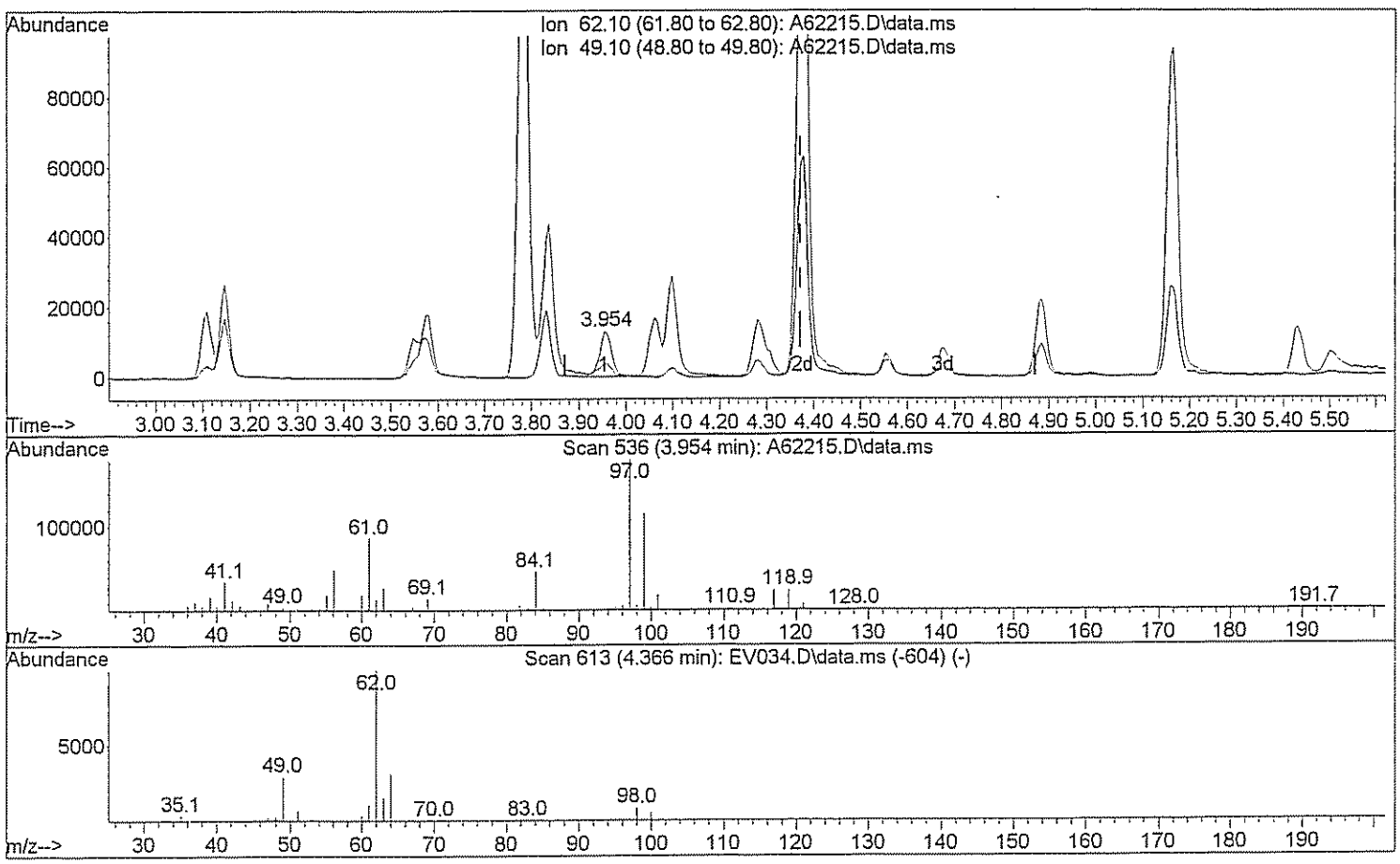
response 484745

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	64.83#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(46) 1,2-Dichloroethane

3.954min (-0.417) 7.81 ug/L

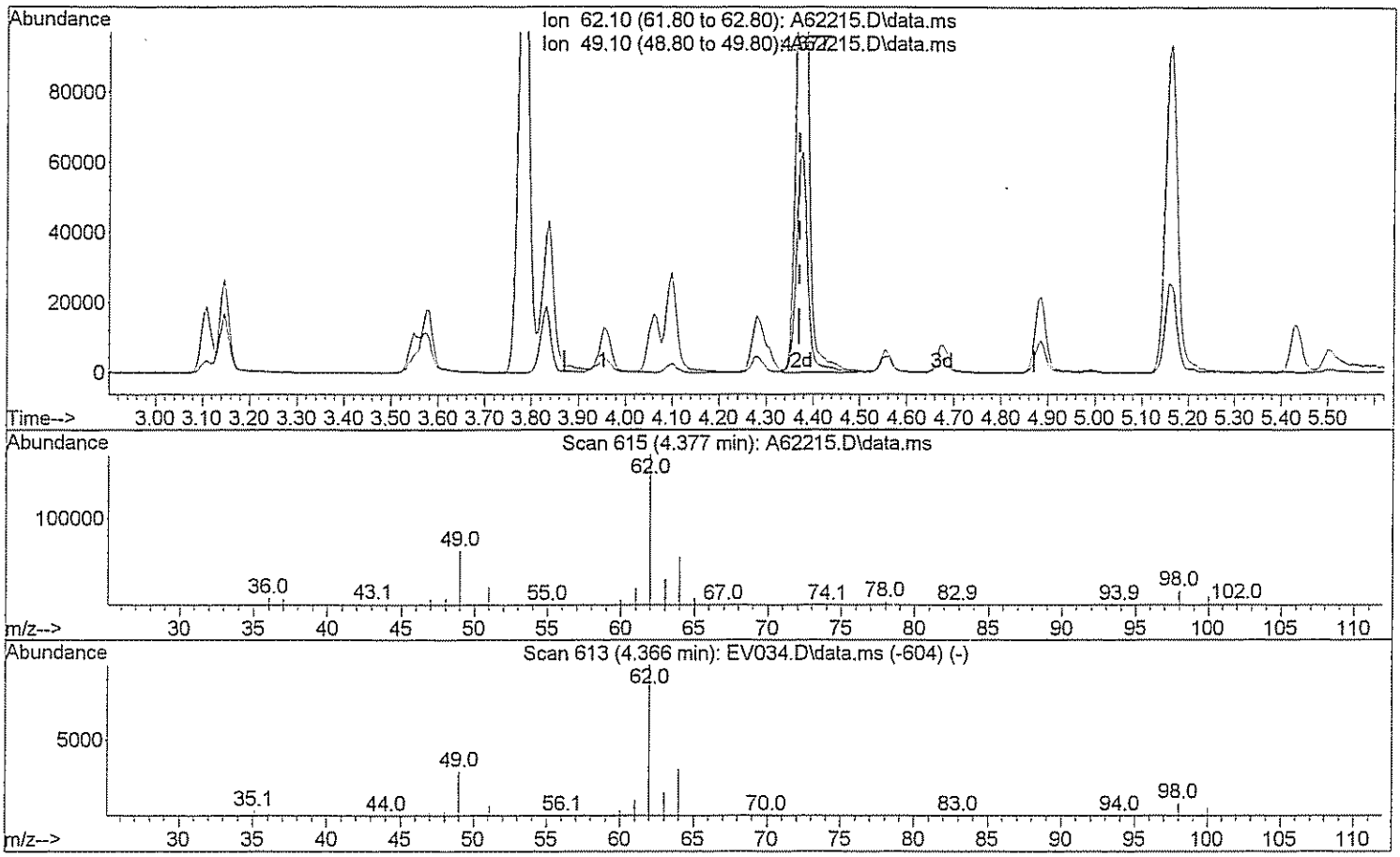
response 22614

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	33.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(46) 1,2-Dichloroethane

4.377min (+0.005) 100.33 ug/L m DM 3/16/09

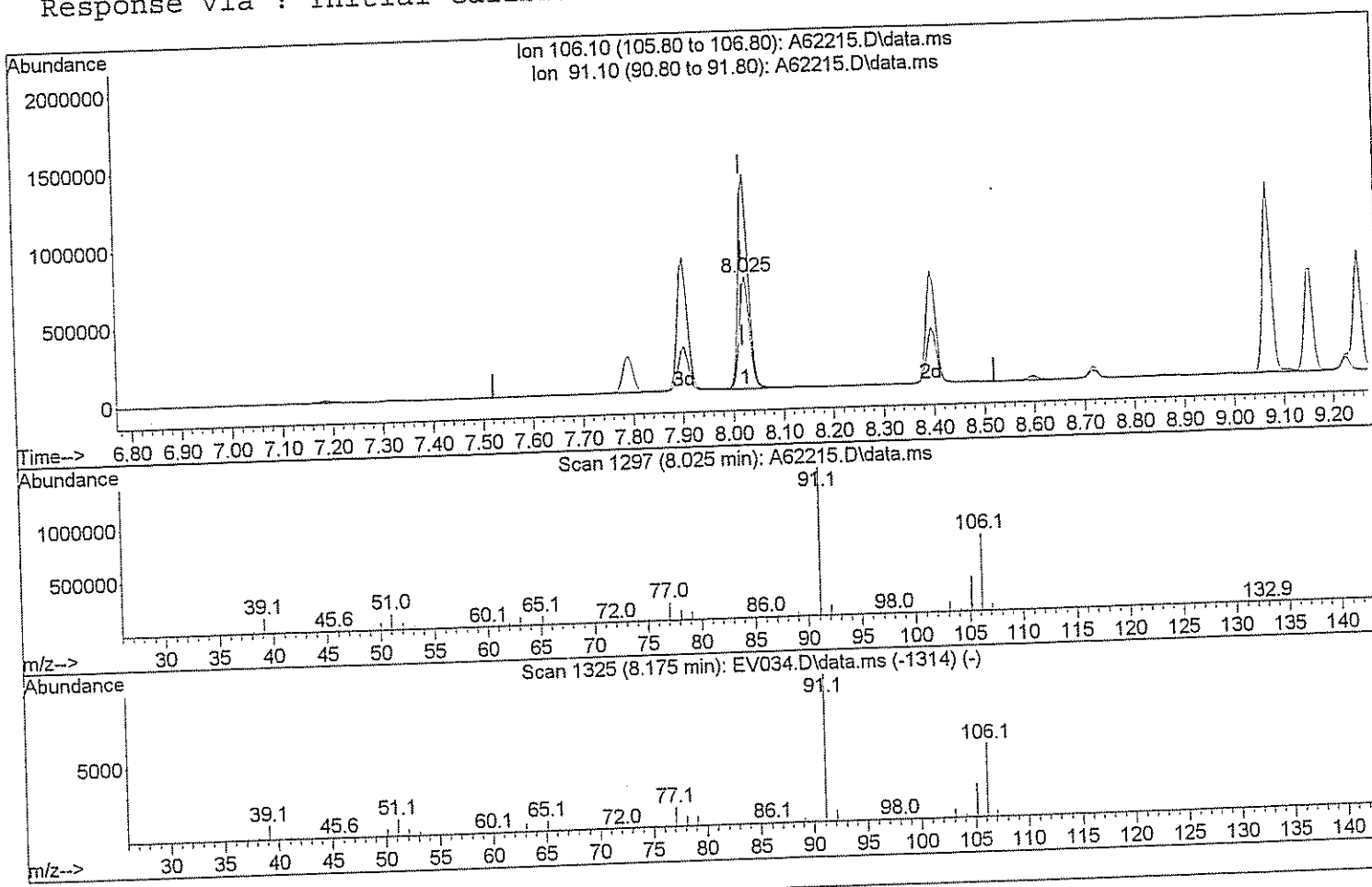
response 290421

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(72) Xylene (Total)

8.025min (+0.005) 211.55 ug/L

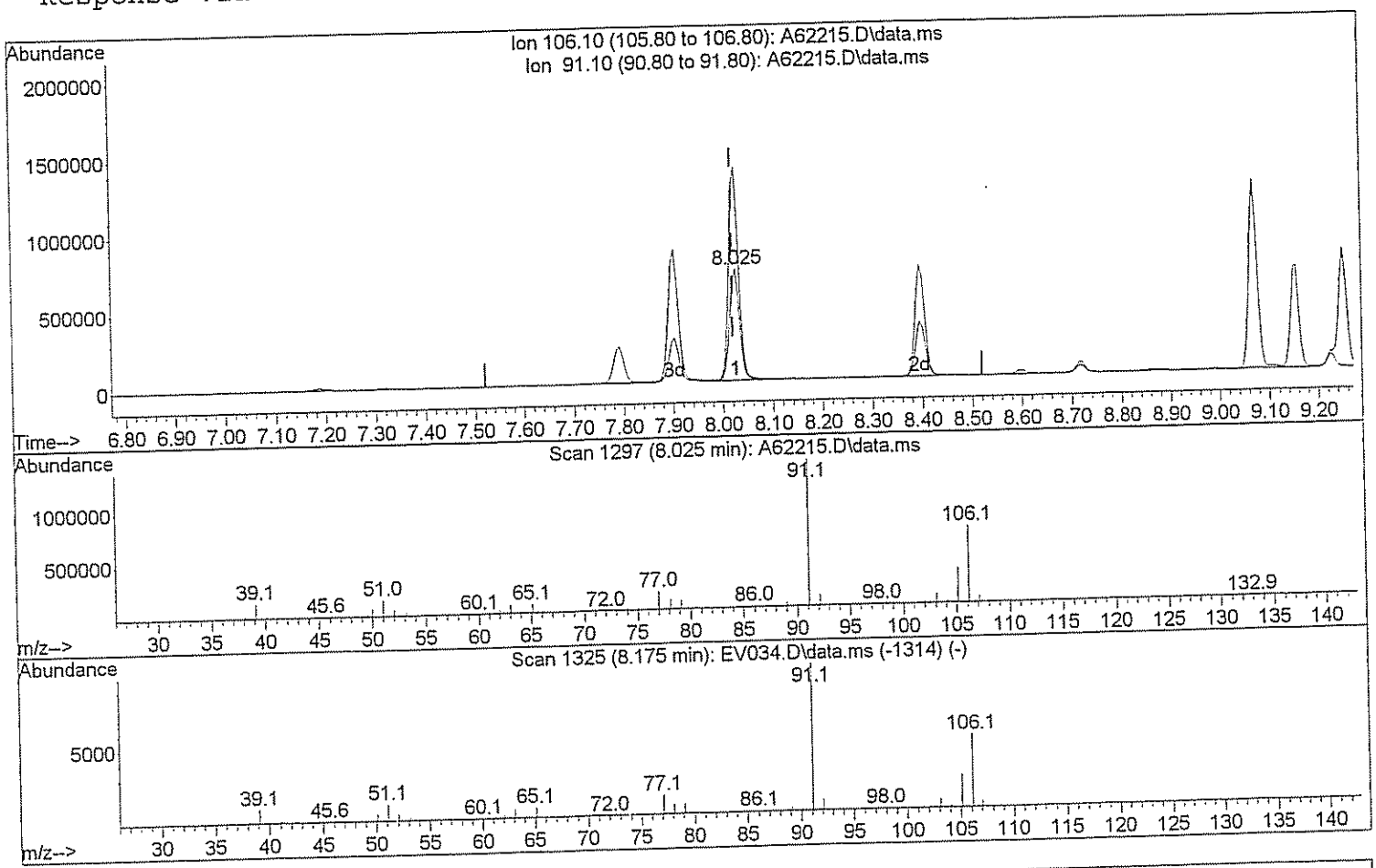
response 991494

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(72) Xylene (Total)

8.025min (+0.005) 314.04 ug/L m AM 3/16/09

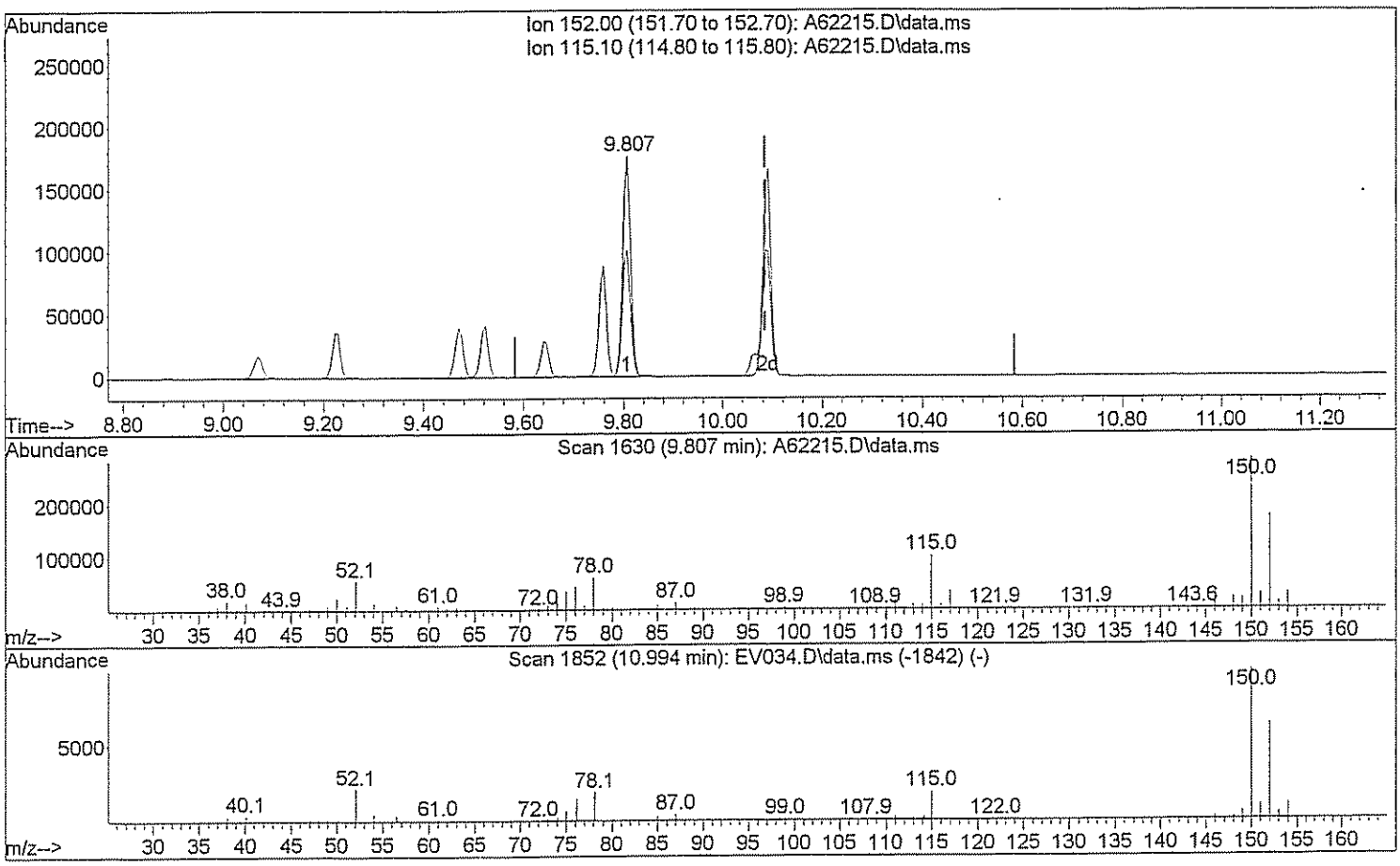
response 1471853

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	130.22#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.278) 55.06 ug/L

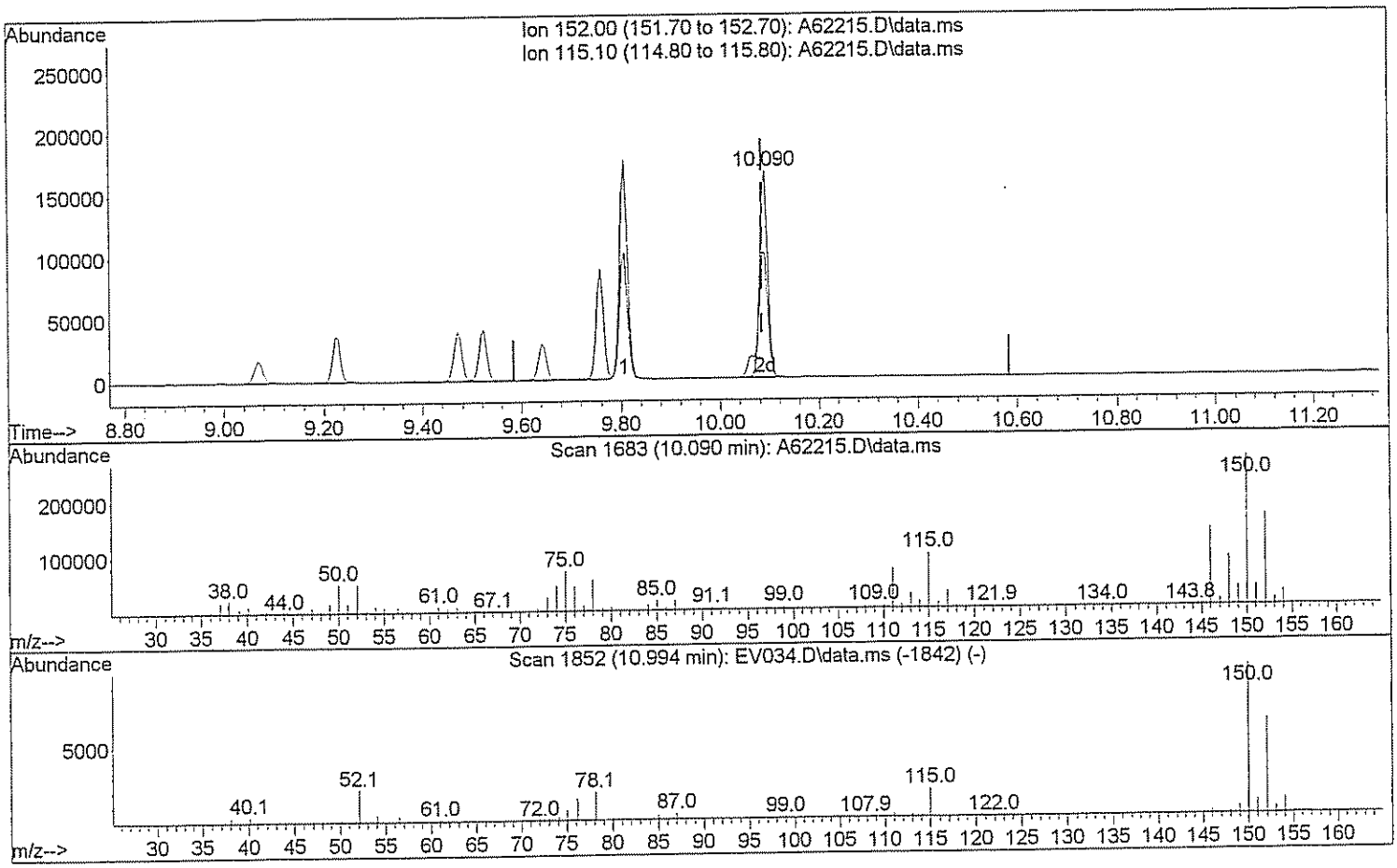
response 196008

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	58.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.005) 52.27 ug/L m

response 186080

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	61.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	451792	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	368065	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.785	117	369201	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	127289	53.24	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.48%				
54) Toluene-d8	6.148	98	448303	52.16	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.32%				
76) 4-Bromofluorobenzene	8.887	95	171713	48.75	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.50%				
92) 1,2-Dichlorobenzene-d4	10.090	152	179334m	51.02	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.04%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	163283	185.20	ug/L		99
3) Chloromethane	1.328	50	359762	261.78	ug/L		94
4) Vinyl chloride	1.392	62	387193	201.61	ug/L		97
5) Bromomethane	1.611	94	202436	233.46	ug/L		92
6) Chloroethane	1.675	64	284270	222.01	ug/L		99
7) Trichlorofluoromethane	1.809	101	811281	300.62	ug/L		99
8) Ethyl Ether	2.044	59	371482	217.85	ug/L		98
9) Freon 113	2.162	101	297997	199.83	ug/L		93
10) Acrolein	2.194	56	364103	1138.03	ug/L	#	65
11) Tert-Butyl alcohol	2.702	59	300740	1420.82	ug/L	#	47
12) 1,1-Dichloroethene	2.194	96	365174	212.11	ug/L		90
13) Iodomethane	2.323	142	290902	190.43	ug/L		96
14) Acetonitrile	2.472	40	2492691	2098.16	ug/L	#	1
15) Methylene chloride	2.585	84	439869	211.83	ug/L		98
16) Trans-1,2-dichloroethene	2.745	96	440274	215.90	ug/L		88
17) Isopropyl ether	3.098	45	1680957	210.47	ug/L		97
18) 1,1-Dichloroethane	3.104	63	800890	210.51	ug/L		100
19) Acetone	2.312	43	312363	395.54	ug/L		97
20) Methyl Acetate	4.270	43	87097	59.46	ug/L	#	100
21) MTBE	2.745	73	1194298	217.83	ug/L		100
22) Carbon disulfide	2.339	76	1152952	203.62	ug/L		100
24) Acrylonitrile	2.836	53	640901	1100.42	ug/L		99
25) Chloroprene	3.141	53	692315	203.74	ug/L		91
26) n-Heptane	4.436	71	299522m	185.89	ug/L		
27) 2,2-Dichloropropane	3.548	77	610873	200.73	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	462197	198.38	ug/L		90

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.745	96	940669m	424.47	ug/L		
30) Propionitrile	3.751	54	646001	2150.18	ug/L		98
31) Bromochloromethane	3.783	128	232724	214.09	ug/L		93
32) Tetrahydrofuran	3.794	72	106842	226.71	ug/L	#	1
33) Chloroform	3.842	83	899112	235.43	ug/L		98
34) Cyclohexane	3.933	56	656554	193.01	ug/L		93
35) 1,1,1-Trichloroethane	3.960	97	656121	214.83	ug/L		99
36) Carbon tetrachloride	4.061	117	564740	208.40	ug/L		100
37) Methacrylonitrile	3.842	41	3847918	2424.27	ug/L	#	26
38) Methylcyclohexane	4.992	83	574234	180.05	ug/L		99
39) Isobutyl Alcohol	4.436	43	542821	3783.48	ug/L		91
42) 2-Butanone	3.623	43	524768	405.64	ug/L		100
43) 1,1-Dichloropropene	4.099	75	560845	203.91	ug/L		98
44) Vinyl Acetate	3.136	43	568872	194.42	ug/L		97
45) Benzene	4.281	78	1755663	209.75	ug/L		100
46) 1,2-Dichloroethane	4.377	62	553129	208.82	ug/L	#	86
47) Trichloroethene	4.885	95	424939	203.65	ug/L		92
48) 1,2-Dichloropropane	5.163	63	448805	202.08	ug/L		97
49) Methyl methacrylate	5.270	69	297322	209.45	ug/L		89
50) Dibromomethane	5.281	93	270802	211.48	ug/L		98
51) Bromodichloromethane	5.431	83	566453	204.62	ug/L		100
52) 2-Chloroethylvinyl ether	5.784	63	624995	764.27	ug/L		98
53) Cis-1,3-dichloropropene	5.918	75	722742	208.73	ug/L		99
55) Toluene	6.217	92	1188416	214.78	ug/L		98
56) Trans-1,3-dichloropropene	6.576	75	669322	214.11	ug/L		97
57) Ethyl methacrylate	6.629	69	567116	213.10	ug/L		95
58) 1,1,2-Trichloroethane	6.779	83	344109	213.67	ug/L		97
60) 4-Methyl-2-pentanone	6.105	43	884809	392.91	ug/L		97
61) 2-Hexanone	7.073	43	650280	389.64	ug/L		98
62) Tetrachloroethene	6.795	166	489859	210.98	ug/L		96
63) 1,3-Dichloropropane	6.977	76	661242	200.72	ug/L		92
64) Dibromochloromethane	7.185	129	493255	206.73	ug/L		98
65) 1,2-Dibromoethane	7.319	107	399950	202.30	ug/L		98
66) 1-Chlorohexane	7.790	91	644735	198.83	ug/L		92
67) Chlorobenzene	7.811	112	1366383	201.13	ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.913	131	522187	211.01	ug/L		99
69) Ethylbenzene	7.902	91	2372752	208.07	ug/L		99
70) m,p-Xylene	8.025	106	2011769	430.21	ug/L		92
71) o-Xylene	8.400	106	914944	202.43	ug/L		95
72) Xylene (Total)	8.025	106	2931434m	633.11	ug/L		
73) Styrene	8.427	104	1565653	203.35	ug/L		95
74) Bromoform	8.603	173	308929	203.17	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

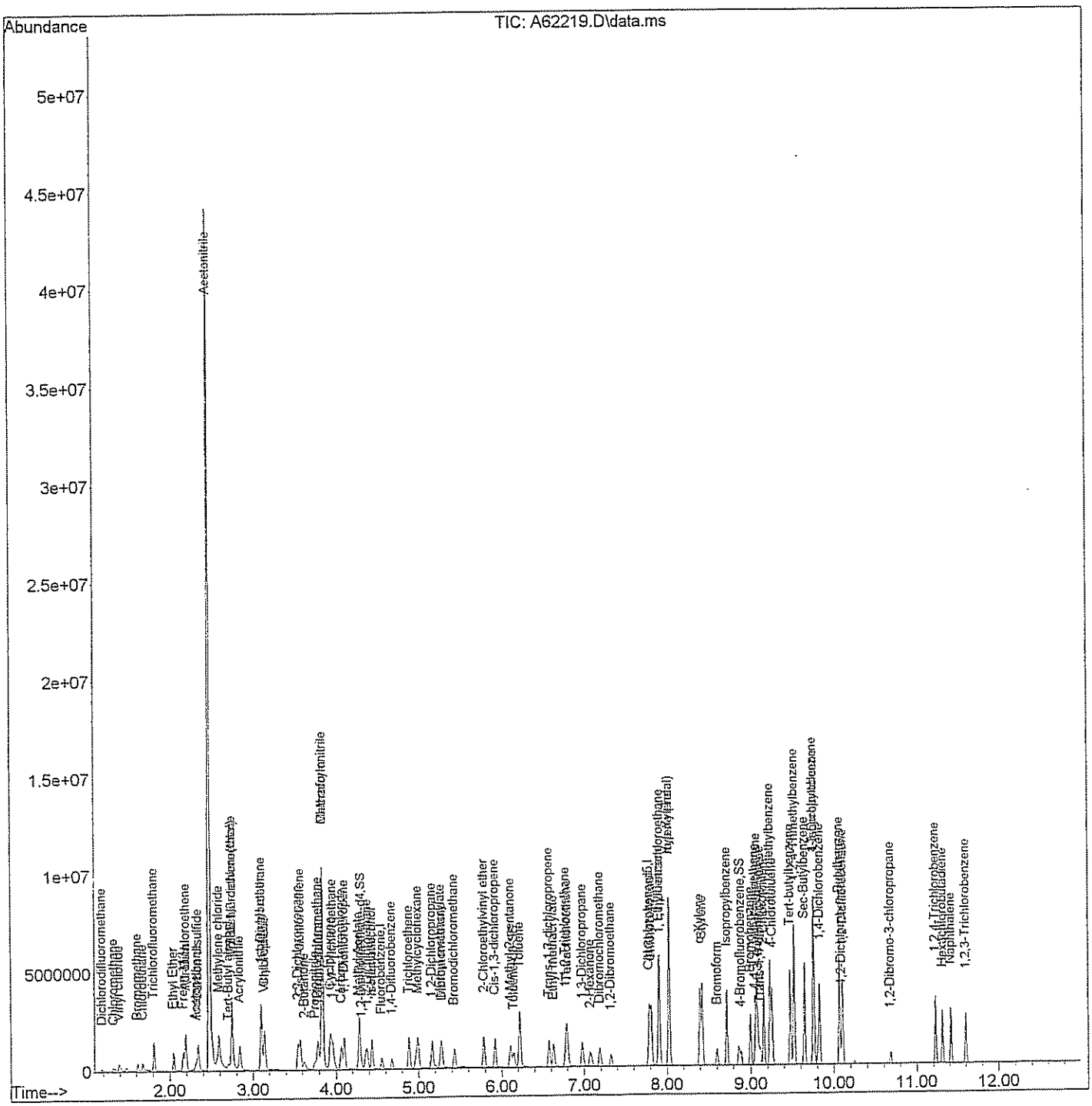
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.721	105	1988139	201.92	ug/L		99
77) Bromobenzene	8.999	156	546933	204.17	ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.053	83	512859	199.85	ug/L		99
79) 1,2,3-Trichloropropane	9.090	110	149522	199.55	ug/L		98
80) n-Propylbenzene	9.069	91	2717913	201.96	ug/L		99
81) Trans-1,4-dichloro-2-b...	9.111	53	130202	192.28	ug/L	#	1
82) 2-Chlorotoluene	9.154	126	558332	195.93	ug/L		88
83) 4-Chlorotoluene	9.256	126	595421	202.26	ug/L		94
84) 1,3,5-Trimethylbenzene	9.229	105	2006295	205.03	ug/L		96
85) Tert-butylbenzene	9.470	119	1756037	205.20	ug/L		97
87) 1,2,4-Trimethylbenzene	9.523	105	2156492	213.53	ug/L		94
88) Sec-Butylbenzene	9.646	105	2636165	200.47	ug/L		99
89) 1,3-Dichlorobenzene	9.753	146	1275620	223.84	ug/L		99
90) 4-Isopropyltoluene	9.759	119	2537819	218.34	ug/L		98
91) 1,4-Dichlorobenzene	9.828	146	1203750	210.40	ug/L		98
93) 1,2-Dichlorobenzene	10.106	146	1116199	209.33	ug/L		99
94) n-Butylbenzene	10.064	91	2146674	200.75	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	92731	210.67	ug/L		82
96) 1,2,4-Trichlorobenzene	11.224	180	710232	221.19	ug/L		99
97) Hexachlorobutadiene	11.310	225	331241	217.79	ug/L		99
98) Naphthalene	11.412	128	1644380	208.57	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	590974	218.14	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

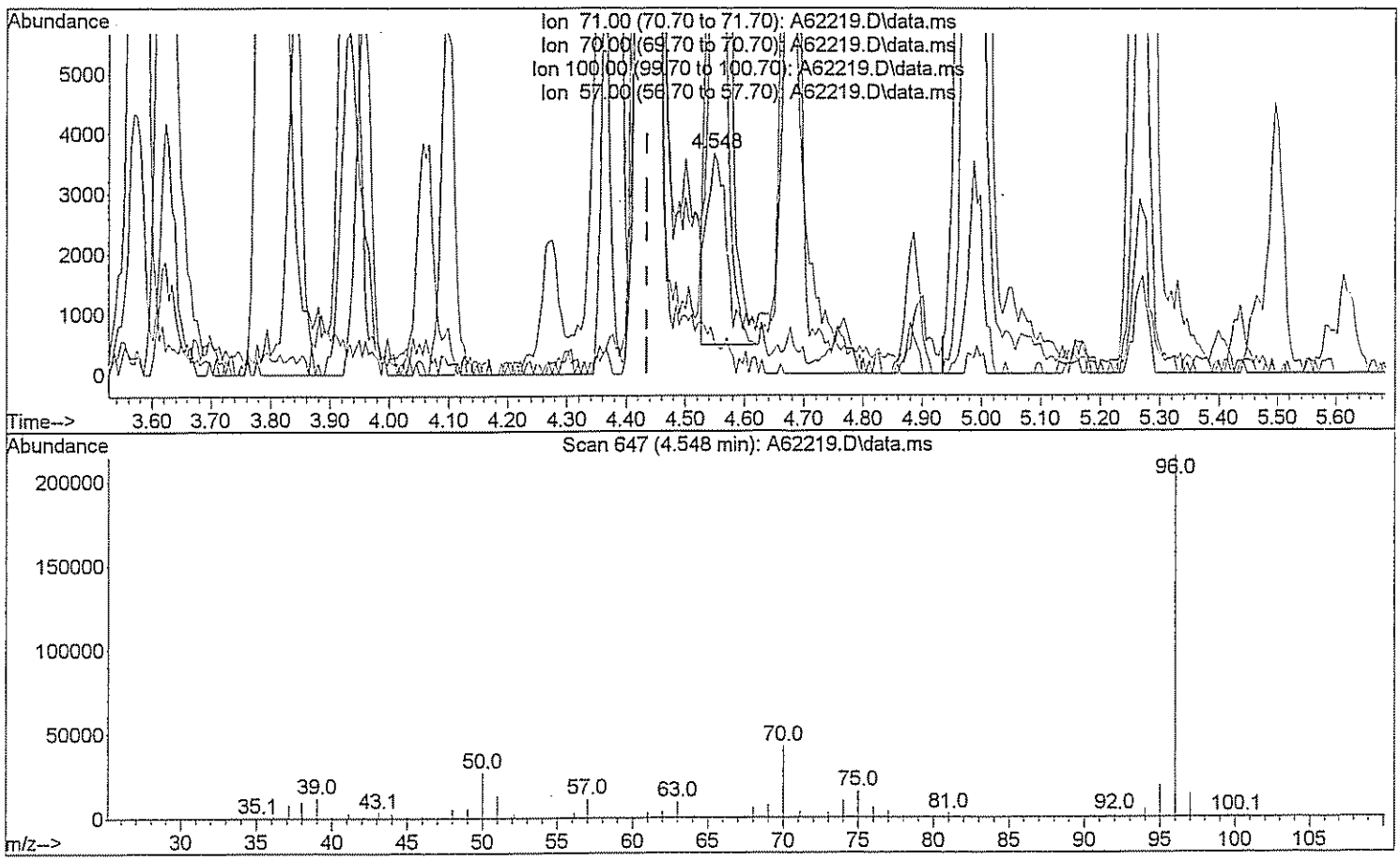
Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(26) n-Heptane (T)

4.548min (+0.112) 4.62 ug/L

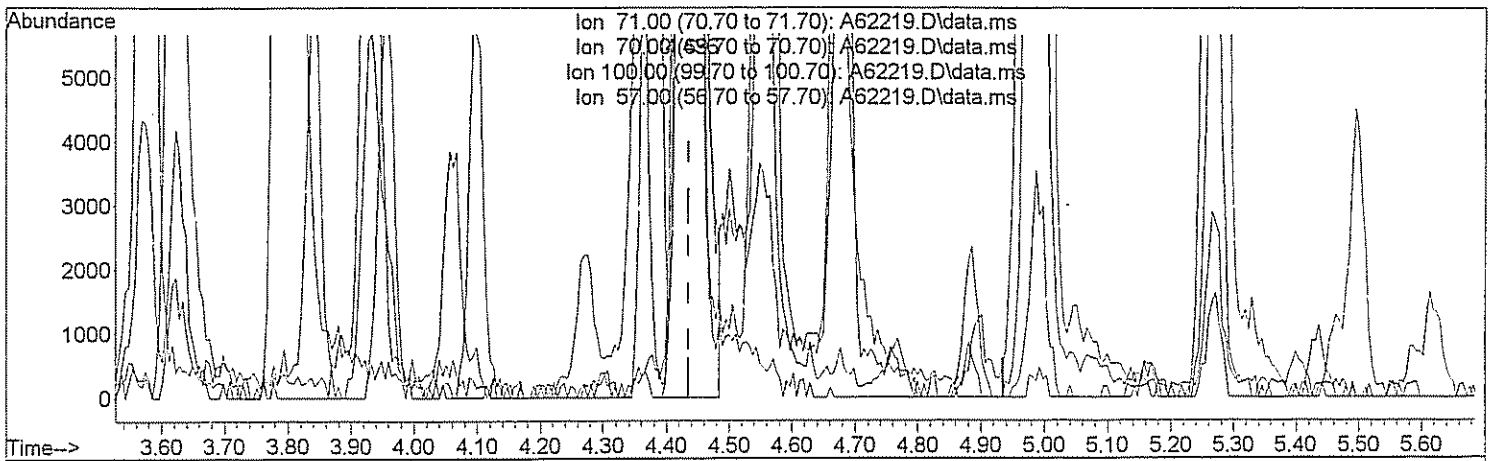
response 7438

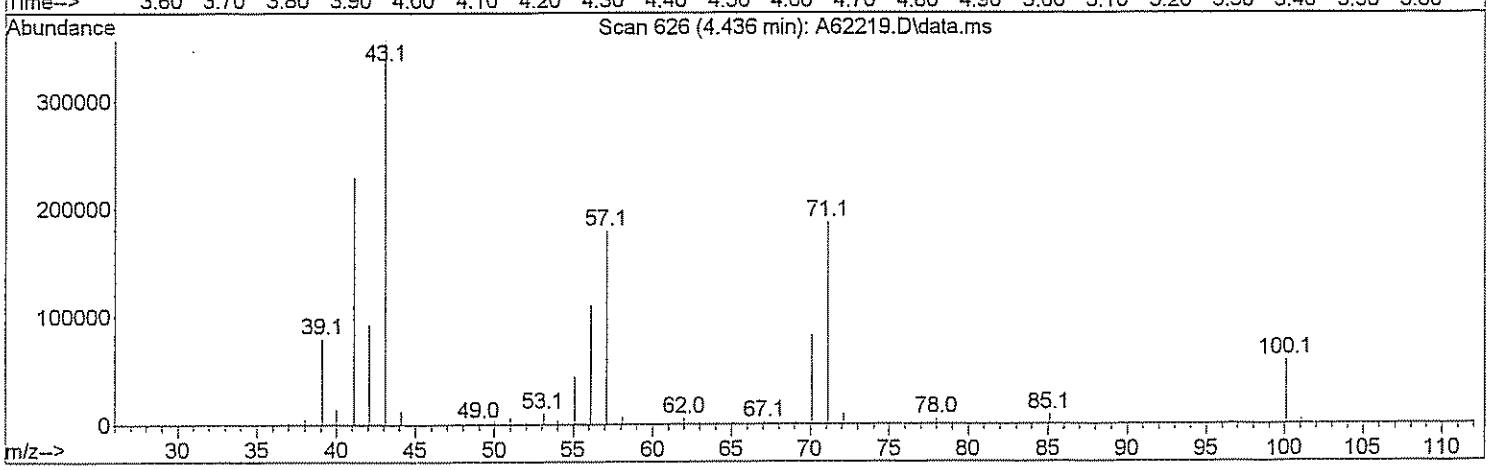
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1084.50#
100.00	62.00	0.00#
57.00	40.00	281.08#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration





TIC: A62219.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 185.89 ug/L m 3/17/09

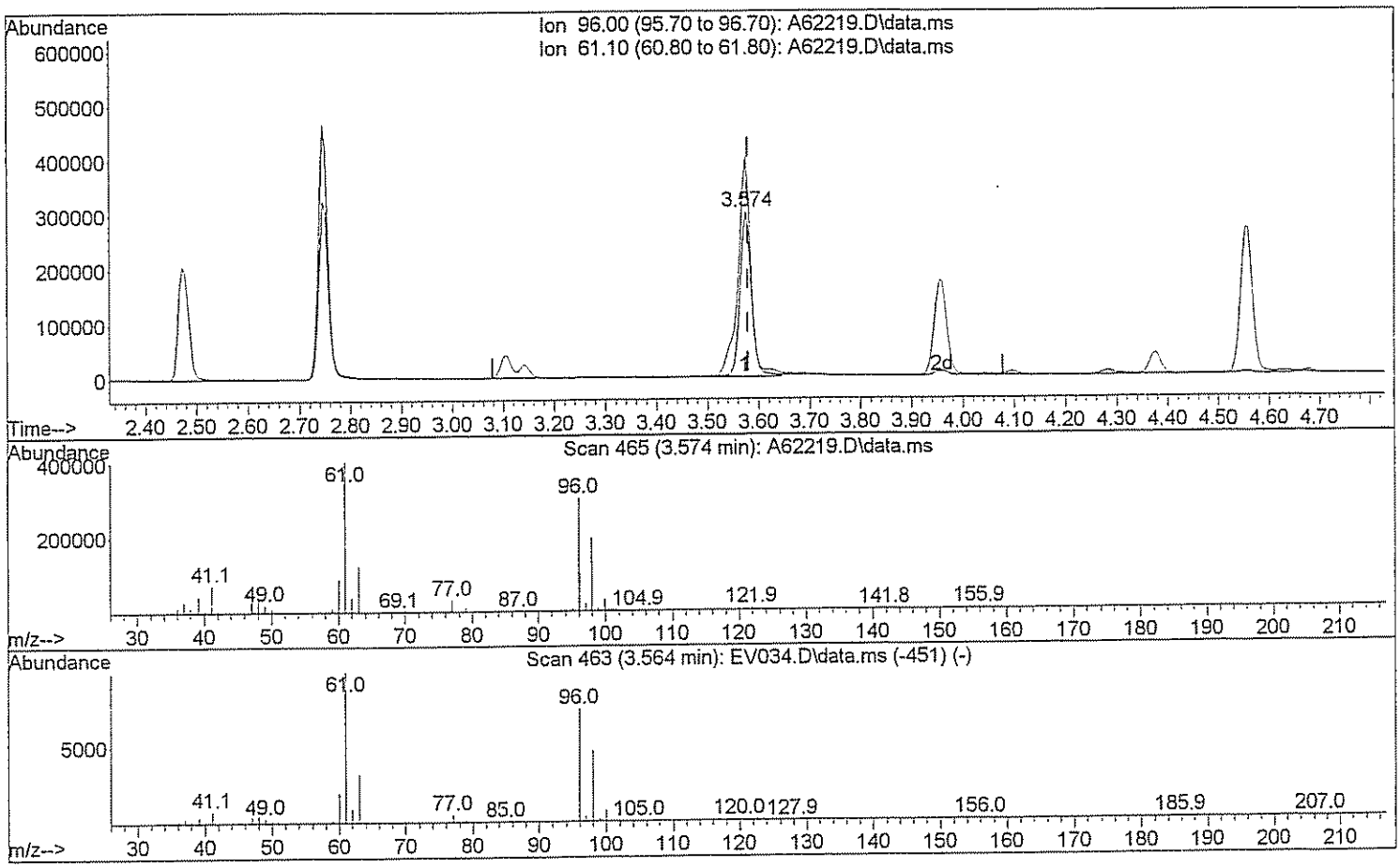
response 299522

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	26.93
100.00	62.00	0.00#
57.00	40.00	6.98#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (-0.005) 208.56 ug/L

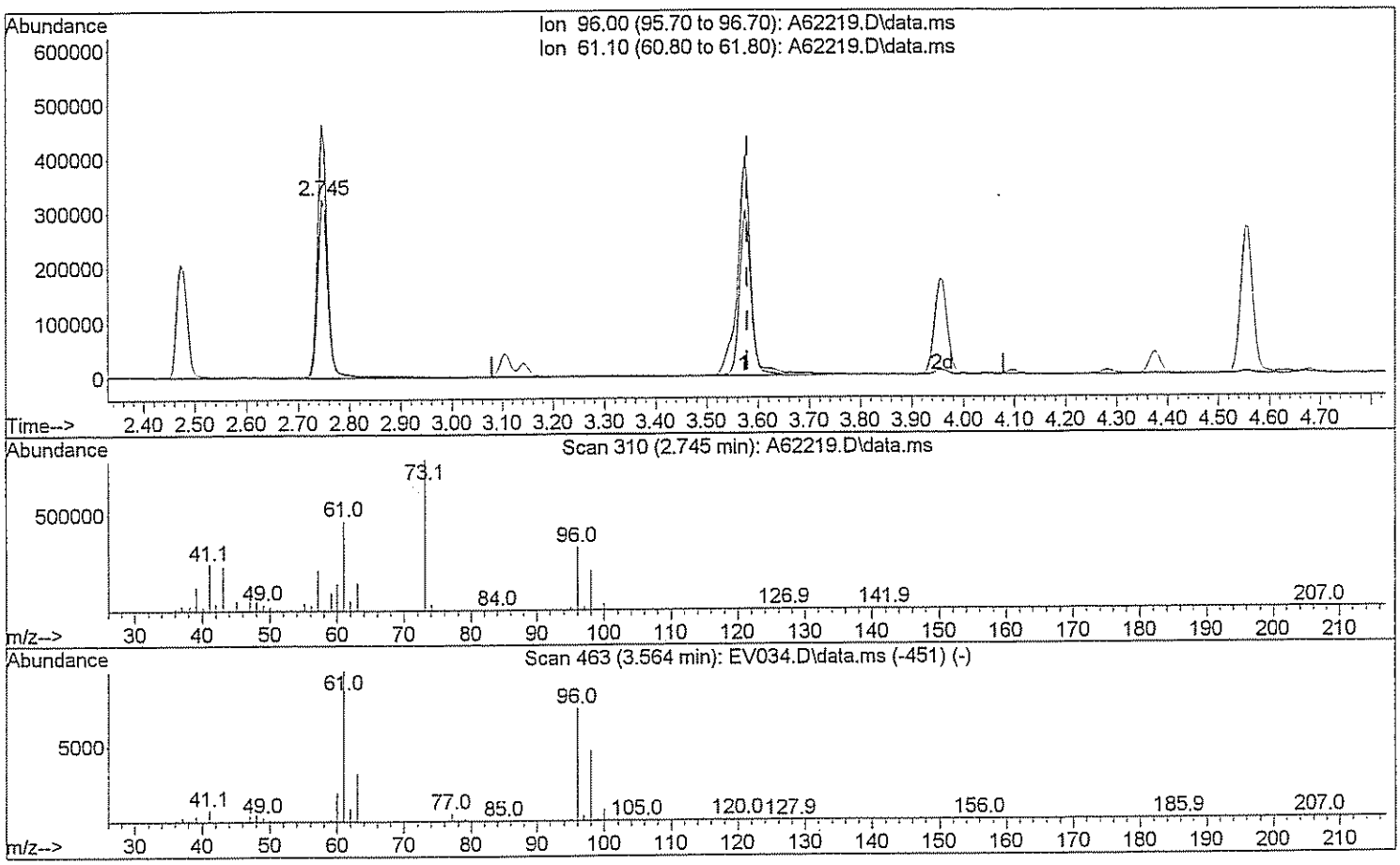
response 462197

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	155.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(29) 1,2-dichloroethene(total)

2.745min (-0.835) 424.47 ug/L m DM 3/17/09

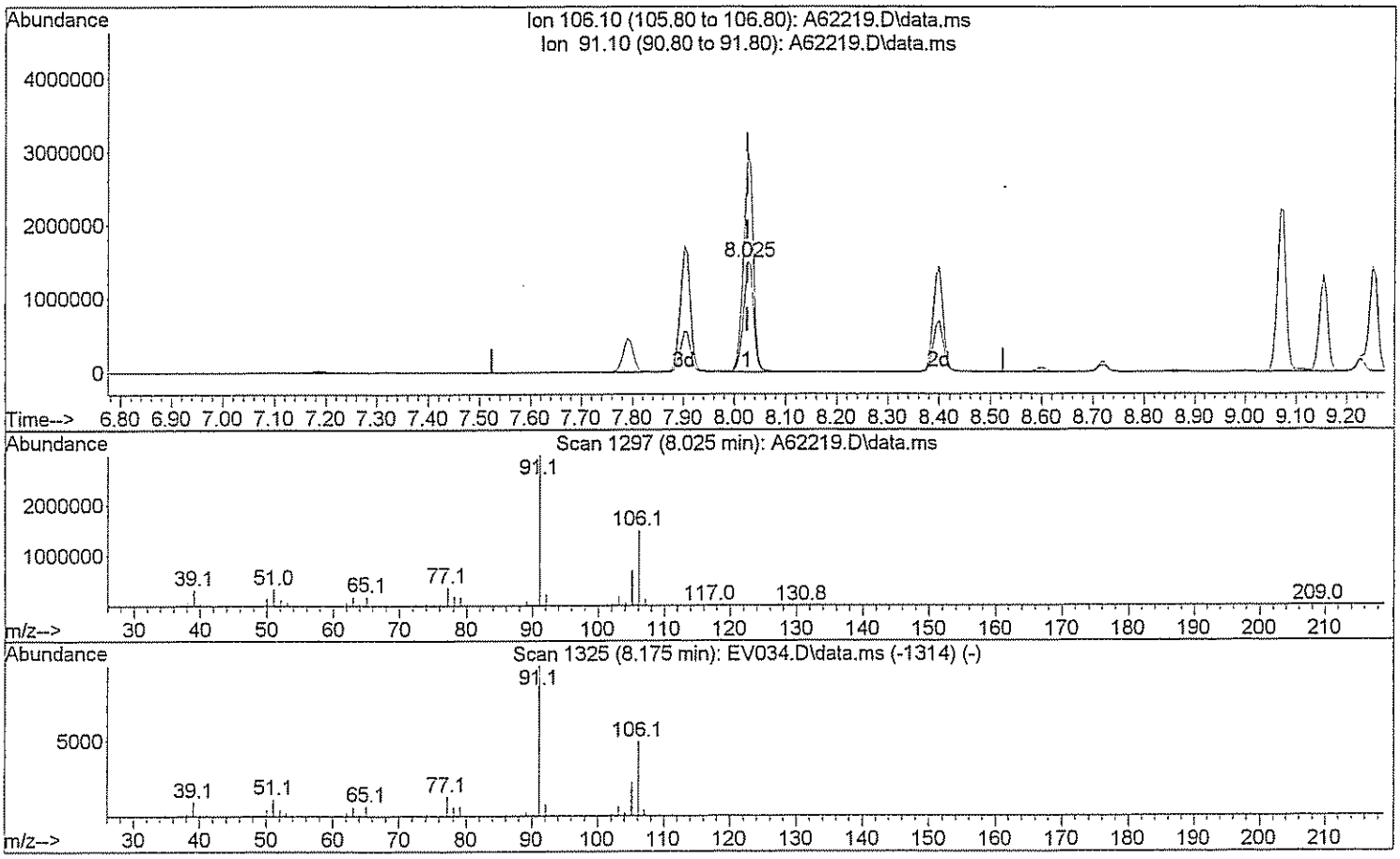
response 940669

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	76.49#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(72) Xylene (Total)

8.025min (+0.000) 434.49 ug/L

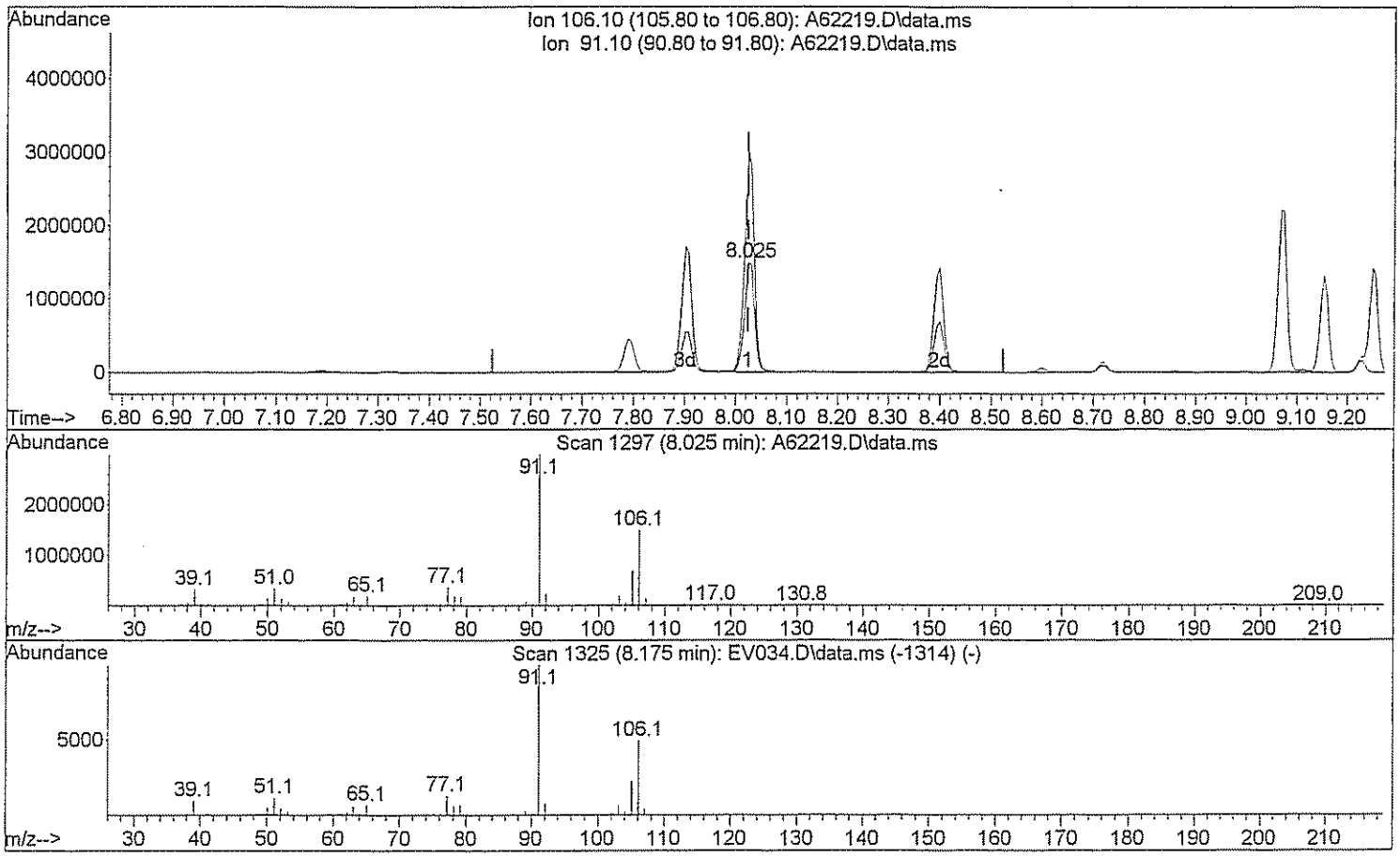
response 2011769

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(72) Xylene (Total)

8.025min (+0.000) 633.11 ug/L m DW 3/17/09

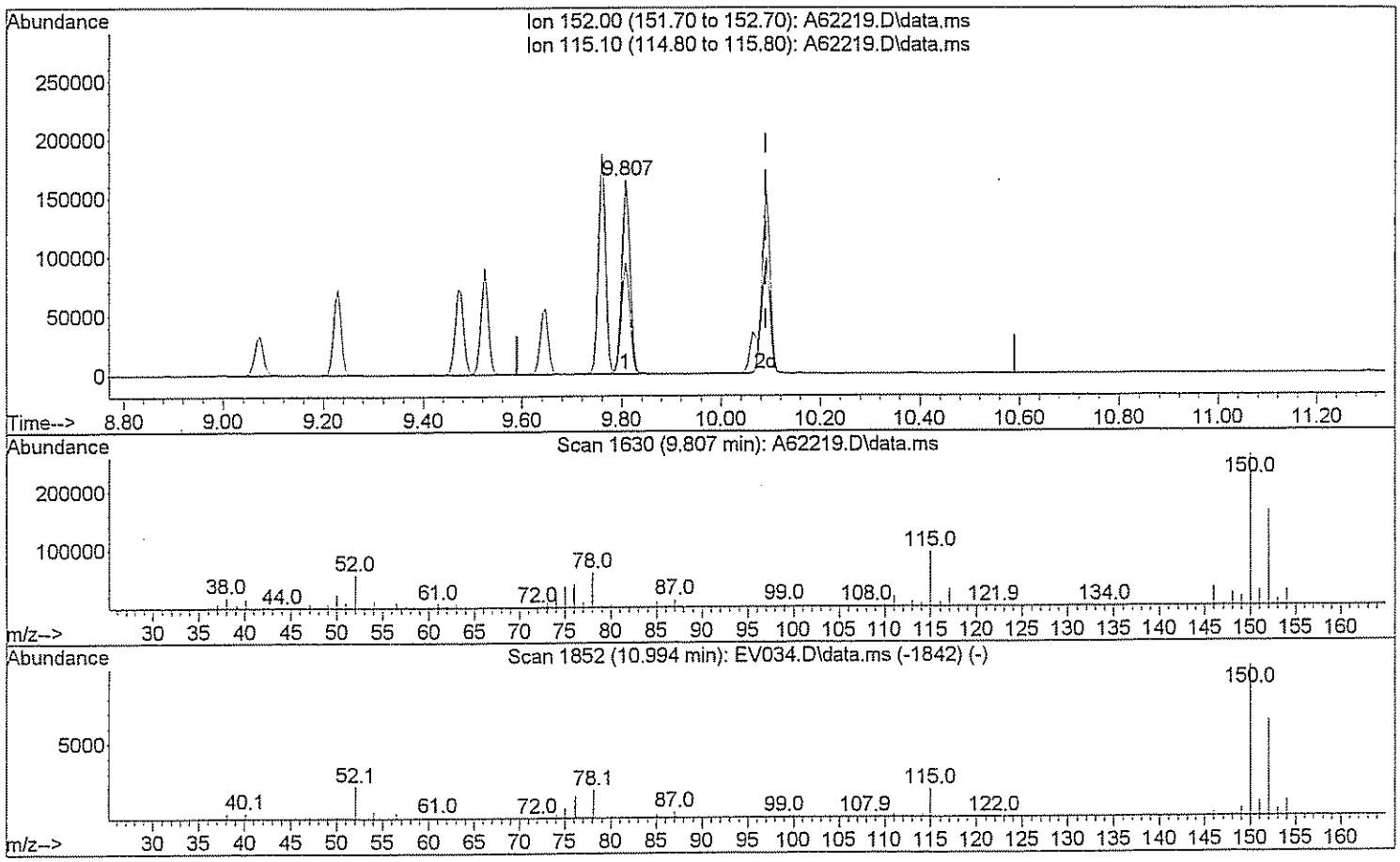
response 2931434

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	134.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.283) 53.05 ug/L

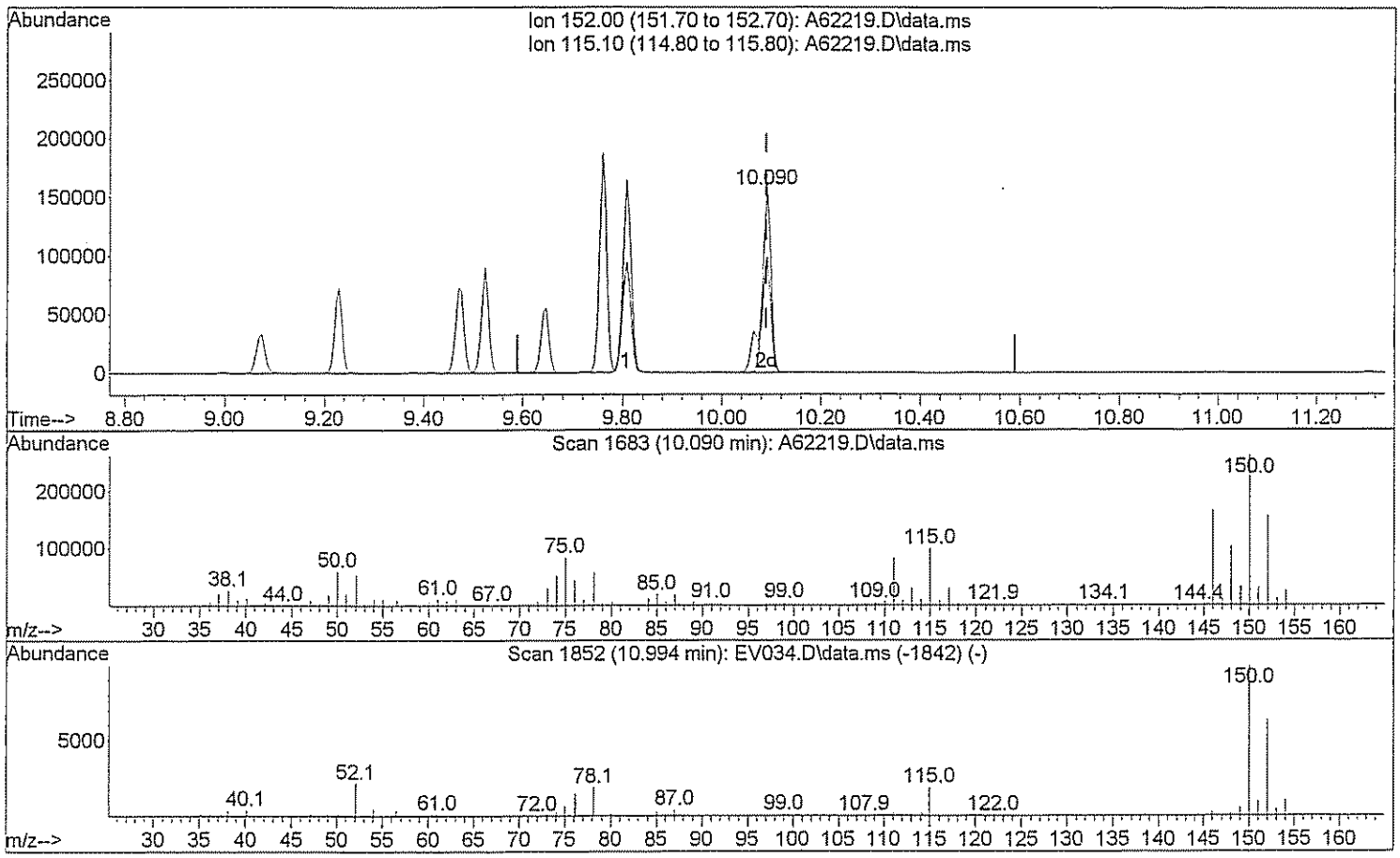
response 186440

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.000) 51.02 ug/L m DM 3/17/09

response 179334

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	61.39
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate ~~Continuing~~ REFERENCE Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	88	0.00
2		Dichlorodifluoromethane	0.089	0.119	-33.7#	107	0.00
3		Chloromethane	0.174	0.181	-4.0	110	0.00
4		Vinyl chloride	0.207	0.222	-7.2	93	0.00
5		Bromomethane	0.115	0.170	-47.8#	191#	0.00
6		Chloroethane	0.145	0.167	-15.2	103	0.00
7		Trichlorofluoromethane	0.256	0.367	-43.4#	111	0.00
8		Ethyl Ether	0.178	0.188	-5.6	87	0.00
9		Freon 113	0.158	0.191	-20.9#	102	0.00
10		Acrolein	0.036	0.034	5.6	84	0.00
11		Tert-Butyl alcohol	0.020	0.020	0.0	69	0.00
12		1,1-Dichloroethene	0.182	0.191	-4.9	89	0.00
13		Iodomethane	0.211	0.197	6.6	191#	0.00
14		Acetonitrile	0.108	0.142	-31.5#	101	0.00
15		Methylene chloride	0.252	0.238	5.6	93	0.00
16		Trans-1,2-dichloroethene	0.209	0.233	-11.5	93	0.00
17		Isopropyl ether	0.812	0.913	-12.4	92	0.00
18		1,1-Dichloroethane	0.374	0.442	-18.2	95	0.00
19		Acetone	0.095	0.092	3.2	89	0.00
20		Methyl Acetate	0.186	0.222	-19.4	76	0.00
21		MTBE	0.545	0.606	-11.2	87	0.00
22		Carbon disulfide	0.679	0.630	7.2	91	0.00
23		Allyl Chloride	0.000	0.000	0.0	101	0.00
24		Acrylonitrile	0.063	0.063	0.0	83	0.00
25		Chloroprene	0.357	0.375	-5.0	93	0.00
26	T	n-Heptane	0.183	0.202	-10.4	103	0.00
27		2,2-Dichloropropane	0.313	0.341	-8.9	90	0.00
28		Cis-1,2-dichloroethene	0.253	0.261	-3.2	91	0.00
29		1,2-dichloroethene(total)	0.268	0.250	6.7	91	0.82#
30		Propionitrile	0.031	0.031	0.0	78	0.00
31		Bromochloromethane	0.109	0.123	-12.8	92	0.00
32		Tetrahydrofuran	0.051	0.052	-2.0	83	0.00
33		Chloroform	0.426	0.434	-1.9	96	0.00
34		Cyclohexane	0.392	0.405	-3.3	99	0.00
35		1,1,1-Trichloroethane	0.318	0.346	-8.8	91	0.00
36		Carbon tetrachloride	0.272	0.309	-13.6	94	0.00
37		Methacrylonitrile	0.170	0.171	-0.6	86	0.00
38		Methylcyclohexane	0.338	0.378	-11.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.019	-26.7#	106	0.00
40	SS	1,2-Dichloroethane-d4	0.266	0.278	-4.5	93	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
42		2-Butanone	0.163	0.177	-8.6	84	0.00
43		1,1-Dichloropropene	0.339	0.392	-15.6	93	0.00
44		Vinyl Acetate	0.381	0.382	-0.3	84	0.00
45		Benzene	1.058	1.201	-13.5	94	0.00
46		1,2-Dichloroethane	0.332	0.366	-10.2	90	0.00
47		Trichloroethene	0.272	0.285	-4.8	90	0.00
48		1,2-Dichloropropane	0.271	0.311	-14.8	92	0.00
49		Methyl methacrylate	0.196	0.187	4.6	82	0.00
50		Dibromomethane	0.167	0.175	-4.8	87	0.00
51		Bromodichloromethane	0.354	0.383	-8.2	89	0.00
52		2-Chloroethylvinyl ether	0.108	0.059	45.4#	32#	0.00
53		Cis-1,3-dichloropropene	0.427	0.497	-16.4	93	0.00
54	SS	Toluene-d8	1.159	1.216	-4.9	92	0.00
55		Toluene	0.694	0.799	-15.1	95	0.00
56		Trans-1,3-dichloropropene	0.387	0.440	-13.7	89	0.00
57		Ethyl methacrylate	0.347	0.372	-7.2	90	0.00
58		1,1,2-Trichloroethane	0.208	0.221	-6.3	88	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
60		4-Methyl-2-pentanone	0.292	0.305	-4.5	86	0.00
61		2-Hexanone	0.210	0.229	-9.0	87	0.00
62		Tetrachloroethene	0.288	0.327	-13.5	97	0.00
63		1,3-Dichloropropane	0.416	0.459	-10.3	92	0.00
64		Dibromochloromethane	0.301	0.315	-4.7	89	0.00
65		1,2-Dibromoethane	0.257	0.271	-5.4	91	0.00
66		1-Chlorohexane	0.432	0.455	-5.3	94	0.00
67		Chlorobenzene	0.848	0.950	-12.0	95	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.336	-10.5	93	0.00
69		Ethylbenzene	1.451	1.577	-8.7	95	0.00
70		m,p-Xylene	0.570	0.647	-13.5	95	0.00
71		o-Xylene	0.578	0.622	-7.6	94	0.00
72		Xylene (Total)	0.586	0.639	-9.0	94	0.00
73		Styrene	0.960	1.041	-8.4	92	0.00
74		Bromoform	0.187	0.198	-5.9	84	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.345	-9.5	94	0.00
76	SS	4-Bromofluorobenzene	0.471	0.472	-0.2	89	0.00
77		Bromobenzene	0.336	0.367	-9.2	93	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.331	-0.3	84	0.00
79		1,2,3-Trichloropropane	0.098	0.101	-3.1	87	0.00
80		n-Propylbenzene	1.700	1.863	-9.6	94	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.074	10.8	61	0.00
82		2-Chlorotoluene	0.361	0.385	-6.6	91	0.00
83		4-Chlorotoluene	0.374	0.406	-8.6	94	0.00
84		1,3,5-Trimethylbenzene	1.207	1.314	-8.9	93	0.00
85		Tert-butylbenzene	1.049	1.148	-9.4	93	0.00
86		Pentachloroethane	0.000	0.000	0.0	91	0.00
87		1,2,4-Trimethylbenzene	1.254	1.370	-9.3	94	0.00
88		Sec-Butylbenzene	1.607	1.767	-10.0	93	0.00
89		1,3-Dichlorobenzene	0.706	0.771	-9.2	94	0.00
90		4-Isopropyltoluene	1.367	1.547	-13.2	93	0.00
91		1,4-Dichlorobenzene	0.708	0.780	-10.2	94	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.472	-2.2	92	0.00
93		1,2-Dichlorobenzene	0.674	0.729	-8.2	96	0.00
94		n-Butylbenzene	1.349	1.441	-6.8	93	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.056	1.8	82	0.00
96		1,2,4-Trichlorobenzene	0.409	0.441	-7.8	96	0.00
97		Hexachlorobutadiene	0.190	0.220	-15.8	101	0.00
98		Naphthalene	0.975	1.016	-4.2	83	0.00
99		1,2,3-Trichlorobenzene	0.342	0.368	-7.6	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	455382	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	371810	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	362973	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	126686	52.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.74%			
54) Toluene-d8	6.142	98	452235	52.49	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.98%			
76) 4-Bromofluorobenzene	8.881	95	171300	50.07	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.14%			
92) 1,2-Dichlorobenzene-d4	10.090	152	171474	51.10	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.188	85	54067	67.01	ug/L	98
3) Chloromethane	1.327	50	82491	51.96	ug/L	98
4) Vinyl chloride	1.392	62	101158	53.68	ug/L	95
5) Bromomethane	1.616	94	77377	82.68	ug/L	92
6) Chloroethane	1.686	64	76250	57.64	ug/L	96
7) Trichlorofluoromethane	1.836	101	167046	60.75	ug/L	99
8) Ethyl Ether	2.044	59	85752	52.94	ug/L	97
9) Freon 113	2.178	101	86854	60.27	ug/L	89
10) Acrolein	2.189	56	77846	239.01	ug/L #	74
11) Tert-Butyl alcohol	2.670	59	184154	996.39	ug/L #	47
12) 1,1-Dichloroethene	2.205	96	86773	52.46	ug/L	89
13) Iodomethane	2.333	142	89900	46.73	ug/L	96
14) Acetonitrile	2.478	40	648038	539.72	ug/L #	1
15) Methylene chloride	2.590	84	108208	50.44	ug/L	98
16) Trans-1,2-dichloroethene	2.750	96	106306	55.96	ug/L	90
17) Isopropyl ether	3.093	45	415843	56.26	ug/L	100
18) 1,1-Dichloroethane	3.109	63	201485	59.18	ug/L	97
19) Acetone	2.296	43	83481	107.15	ug/L	95
20) Methyl Acetate	4.259	43	101155	44.82	ug/L #	100
21) MTBE	2.740	73	275965	55.64	ug/L	100
22) Carbon disulfide	2.355	76	286671	49.87	ug/L	100
24) Acrylonitrile	2.831	53	143730	249.46	ug/L	98
25) Chloroprene	3.146	53	170876	52.54	ug/L	91
26) n-Heptane	4.436	71	92056m	55.36	ug/L	
27) 2,2-Dichloropropane	3.553	77	155142	54.46	ug/L #	71
28) Cis-1,2-dichloroethene	3.574	96	118772	51.52	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	227721m	93.31 ug/L	
30) Propionitrile	3.735	54	142132	499.58 ug/L	99
31) Bromochloromethane	3.783	128	56165	56.47 ug/L	96
32) Tetrahydrofuran	3.788	72	23801	50.96 ug/L #	1
33) Chloroform	3.836	83	197718	50.93 ug/L	97
34) Cyclohexane	3.933	56	184270	54.44 ug/L	94
35) 1,1,1-Trichloroethane	3.960	97	157737	54.44 ug/L	99
36) Carbon tetrachloride	4.061	117	140935	56.81 ug/L	100
37) Methacrylonitrile	3.826	41	780286	504.02 ug/L #	19
38) Methylcyclohexane	4.992	83	172142	55.87 ug/L	94
39) Isobutyl Alcohol	4.436	43	174603	1293.22 ug/L	91
42) 2-Butanone	3.612	43	131383	108.32 ug/L	96
43) 1,1-Dichloropropene	4.099	75	145727	57.82 ug/L	98
44) Vinyl Acetate	3.136	43	142059	50.10 ug/L	99
45) Benzene	4.281	78	446598	56.75 ug/L	100
46) 1,2-Dichloroethane	4.377	62	135994	55.12 ug/L #	84
47) Trichloroethene	4.885	95	106034	52.47 ug/L	89
48) 1,2-Dichloropropane	5.163	63	115549	57.30 ug/L	95
49) Methyl methacrylate	5.265	69	69429	47.55 ug/L	97
50) Dibromomethane	5.281	93	64913	52.33 ug/L	96
51) Bromodichloromethane	5.431	83	142305	54.06 ug/L	100
52) 2-Chloroethylvinyl ether	5.778	63	88259	109.93 ug/L	95
53) Cis-1,3-dichloropropene	5.918	75	184617	58.20 ug/L	99
55) Toluene	6.217	92	297166	57.61 ug/L	98
56) Trans-1,3-dichloropropene	6.570	75	163637	56.93 ug/L	97
57) Ethyl methacrylate	6.624	69	138195	53.55 ug/L	94
58) 1,1,2-Trichloroethane	6.773	83	82308	53.18 ug/L	95
60) 4-Methyl-2-pentanone	6.094	43	221650	104.72 ug/L	95
61) 2-Hexanone	7.062	43	166157	108.75 ug/L	97
62) Tetrachloroethene	6.795	166	118630	56.70 ug/L	96
63) 1,3-Dichloropropane	6.977	76	166692	55.20 ug/L	92
64) Dibromochloromethane	7.185	129	114427	52.34 ug/L	99
65) 1,2-Dibromoethane	7.319	107	98318	52.70 ug/L	98
66) 1-Chlorohexane	7.790	91	164972	52.56 ug/L	93
67) Chlorobenzene	7.811	112	344787	56.02 ug/L	89
68) 1,1,1,2-Tetrachloroethane	7.908	131	122072	55.38 ug/L	96
69) Ethylbenzene	7.902	91	572267	54.32 ug/L	98
70) m,p-Xylene	8.020	106	469420	113.43 ug/L	90
71) o-Xylene	8.394	106	225692	53.82 ug/L	94
72) Xylene (Total)	8.020	106	695566m	163.62 ug/L	
73) Styrene	8.421	104	377972	54.24 ug/L	92
74) Bromoform	8.598	173	71717	52.89 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	488282	54.76 ug/L	98
77) Bromobenzene	8.994	156	133216	54.57 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	120279	50.17 ug/L	97
79) 1,2,3-Trichloropropane	9.085	110	36572	51.35 ug/L	96
80) n-Propylbenzene	9.069	91	676242	54.79 ug/L	99
81) Trans-1,4-dichloro-2-b...	9.106	53	26923	45.29 ug/L #	25
82) 2-Chlorotoluene	9.149	126	139769	53.40 ug/L	90
83) 4-Chlorotoluene	9.250	126	147320	54.23 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	476804	54.42 ug/L	95
85) Tert-butylbenzene	9.470	119	416869	54.76 ug/L	96
87) 1,2,4-Trimethylbenzene	9.518	105	497453	54.66 ug/L	93
88) Sec-Butylbenzene	9.641	105	641537	54.99 ug/L	98
89) 1,3-Dichlorobenzene	9.748	146	279766	54.61 ug/L	100
90) 4-Isopropyltoluene	9.759	119	561573	56.60 ug/L	98
91) 1,4-Dichlorobenzene	9.823	146	283114	55.08 ug/L	98
93) 1,2-Dichlorobenzene	10.101	146	264432	54.04 ug/L	99
94) n-Butylbenzene	10.064	91	523187	53.43 ug/L	95
95) 1,2-Dibromo-3-chloropr...	10.679	75	20440	49.78 ug/L	80
96) 1,2,4-Trichlorobenzene	11.224	180	160221	53.96 ug/L	99
97) Hexachlorobutadiene	11.305	225	79748	57.67 ug/L	98
98) Naphthalene	11.412	128	368792	52.12 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	133500	53.71 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
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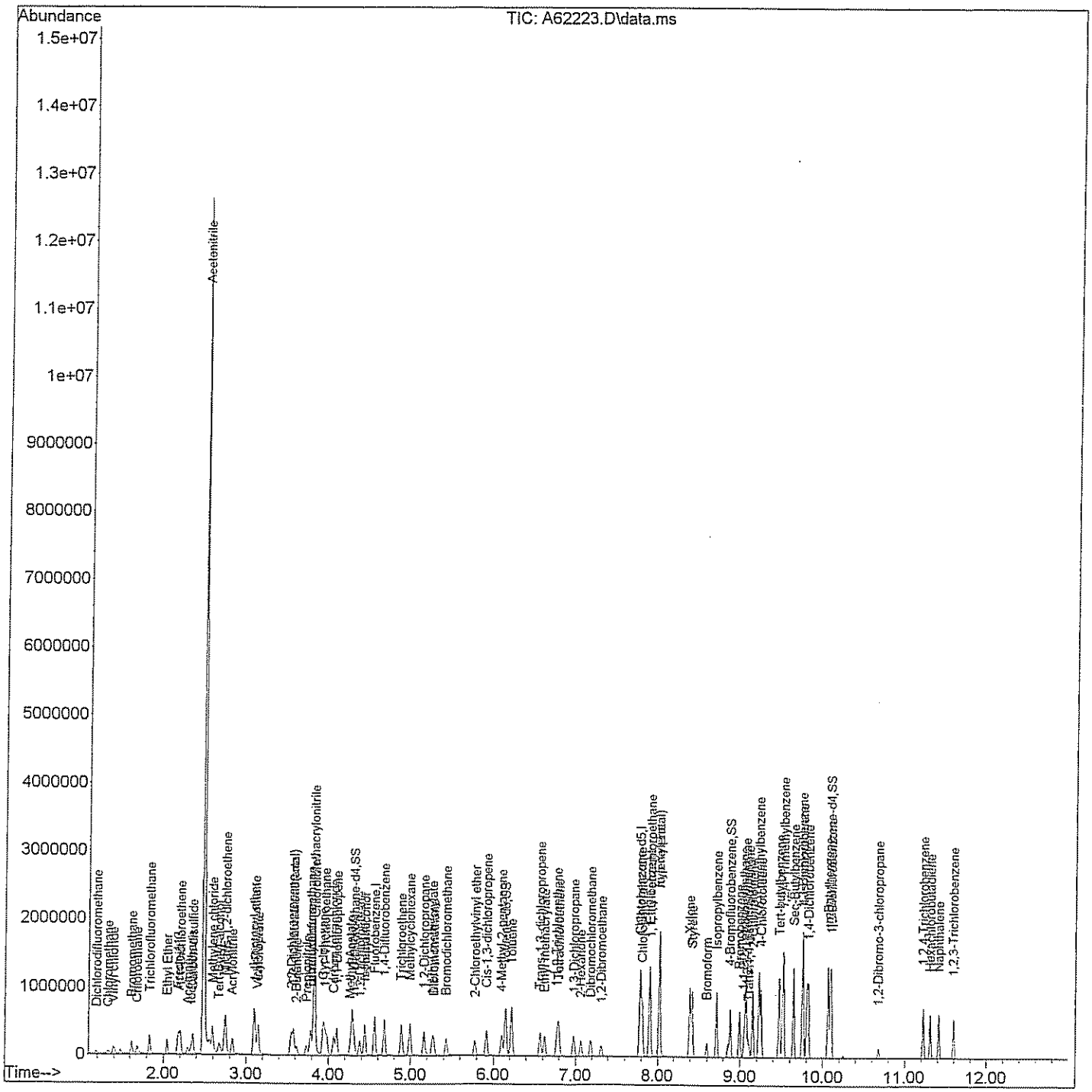
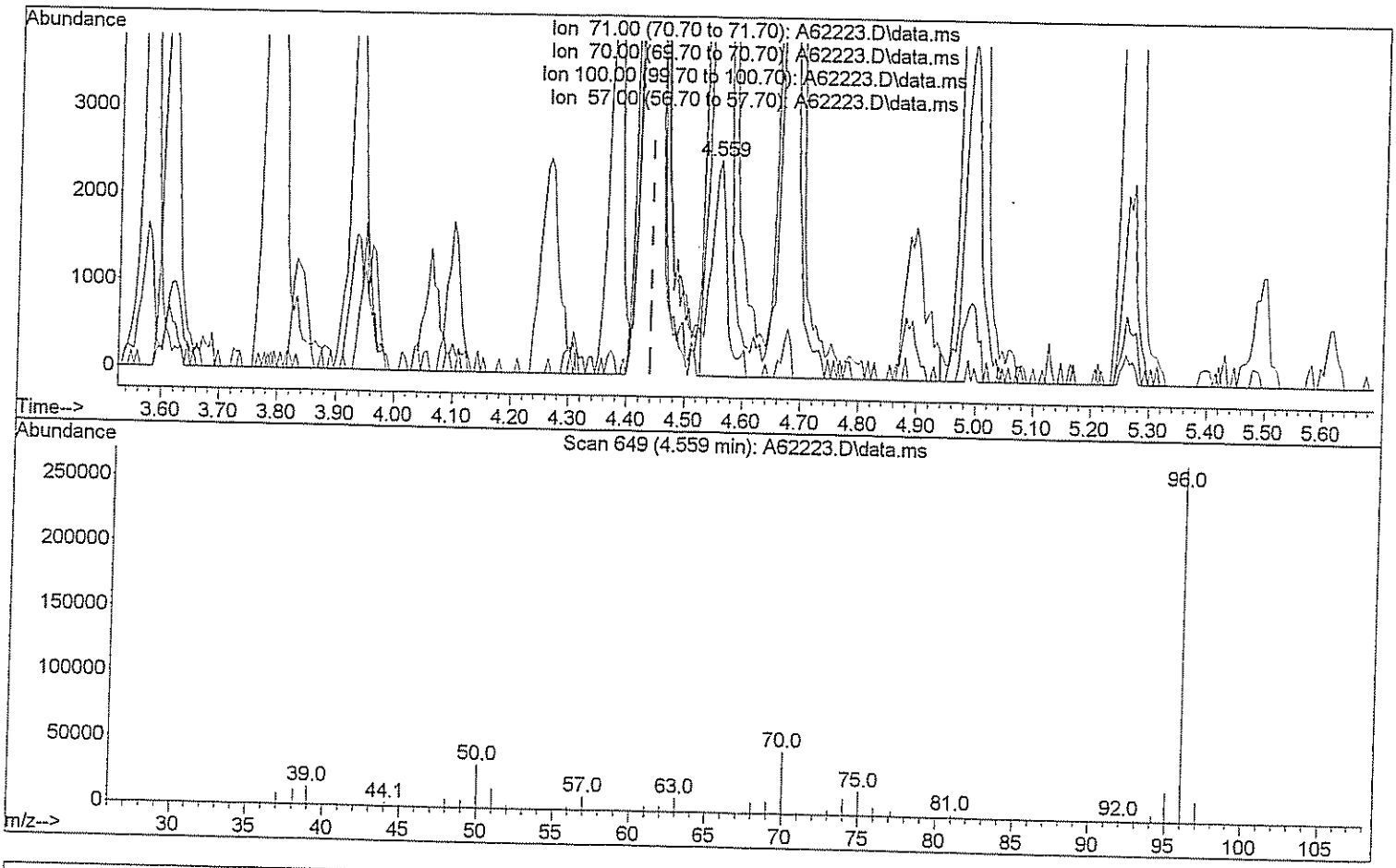
Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(26) n-Heptane (T)

4.559min (+0.118) 2.75 ug/L

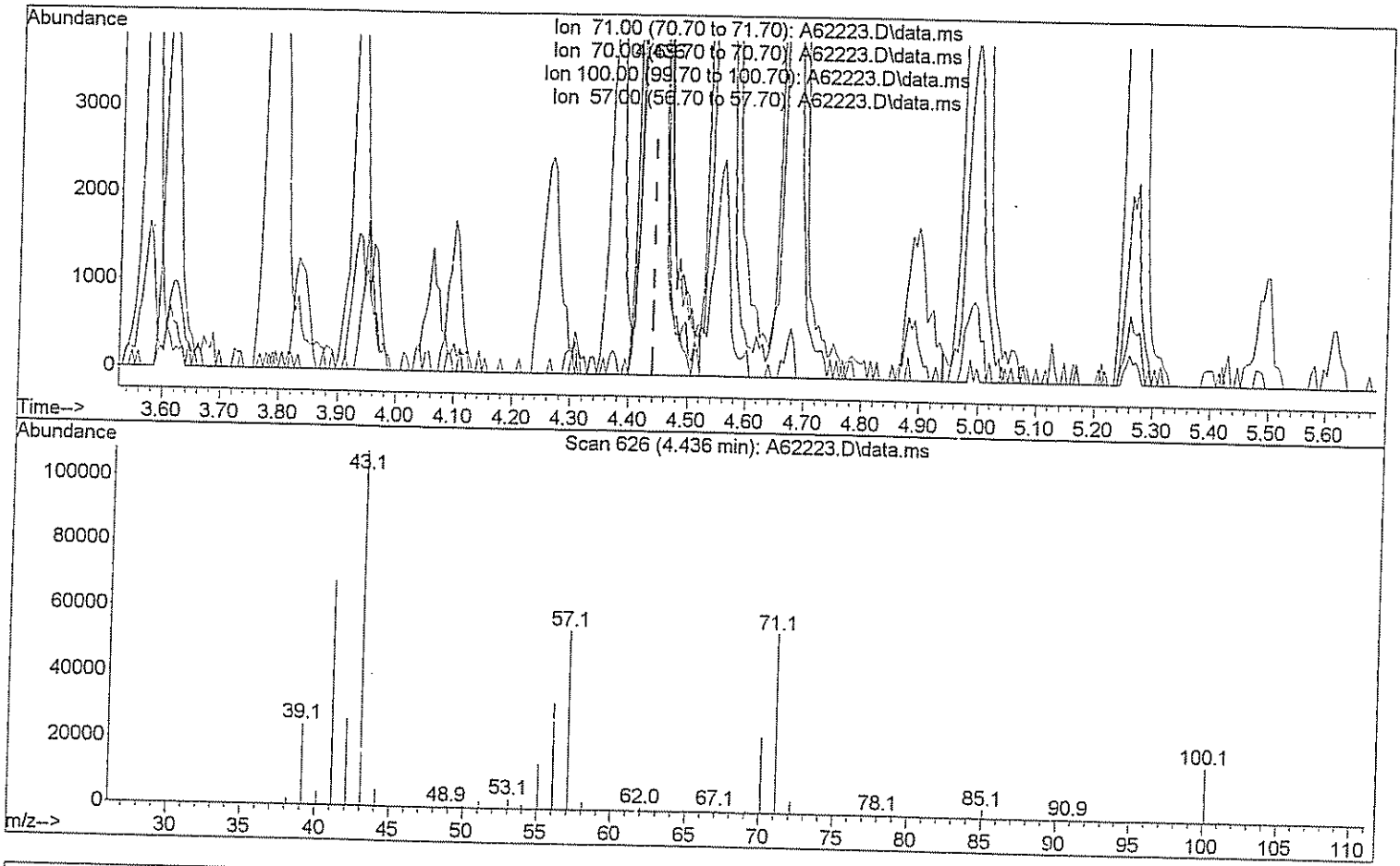
response 4573

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1777.41#
100.00	62.00	0.00#
57.00	40.00	406.25#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(26) n-Heptane (T)

4.436min (-0.005) 55.36 ug/L m DM 3/17/09

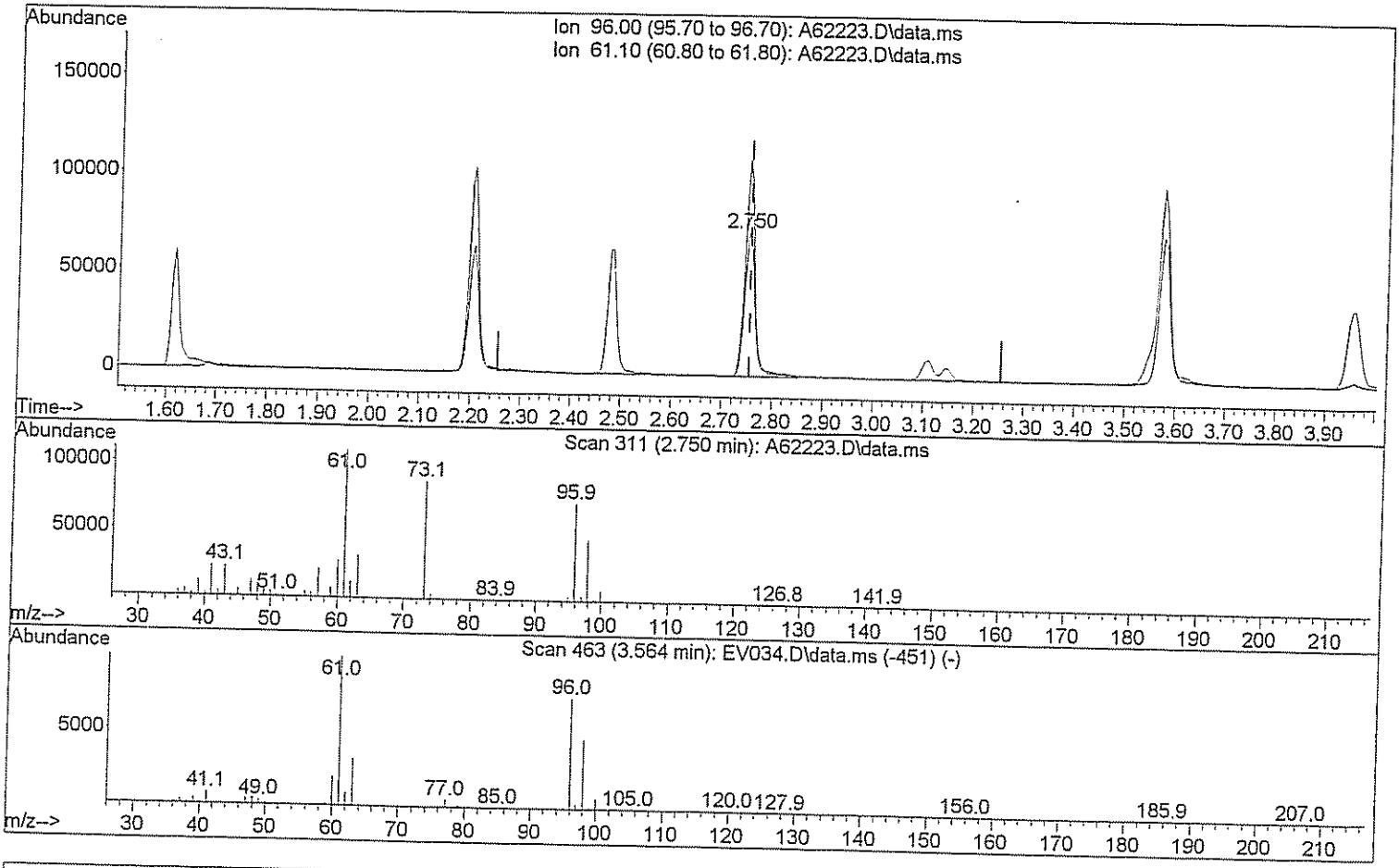
response 92056

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	88.30#
100.00	62.00	0.00#
57.00	40.00	20.18#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 43.56 ug/L

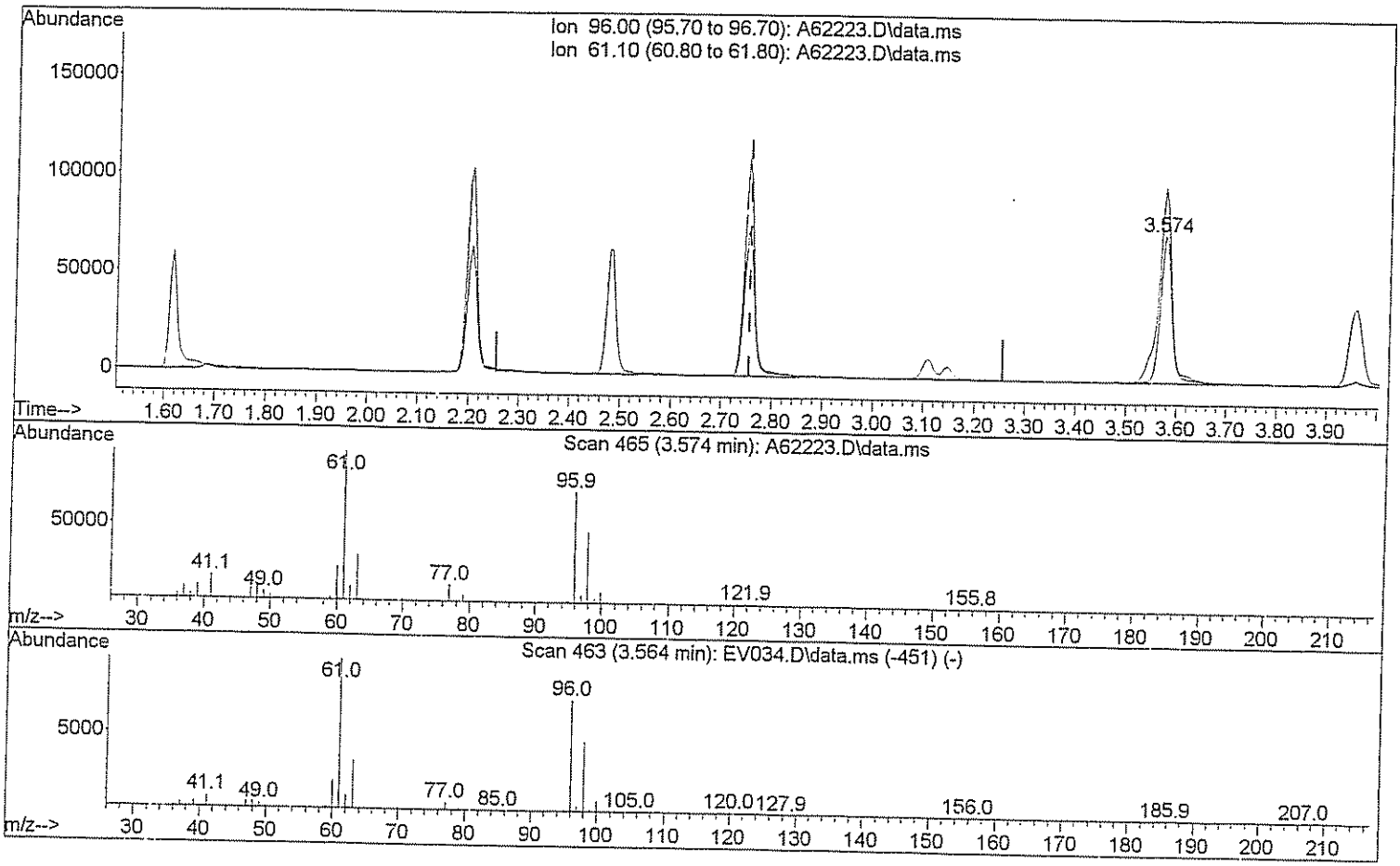
response 106306

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	142.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (+0.819) 93.31 ug/L m DMW 3/17/09

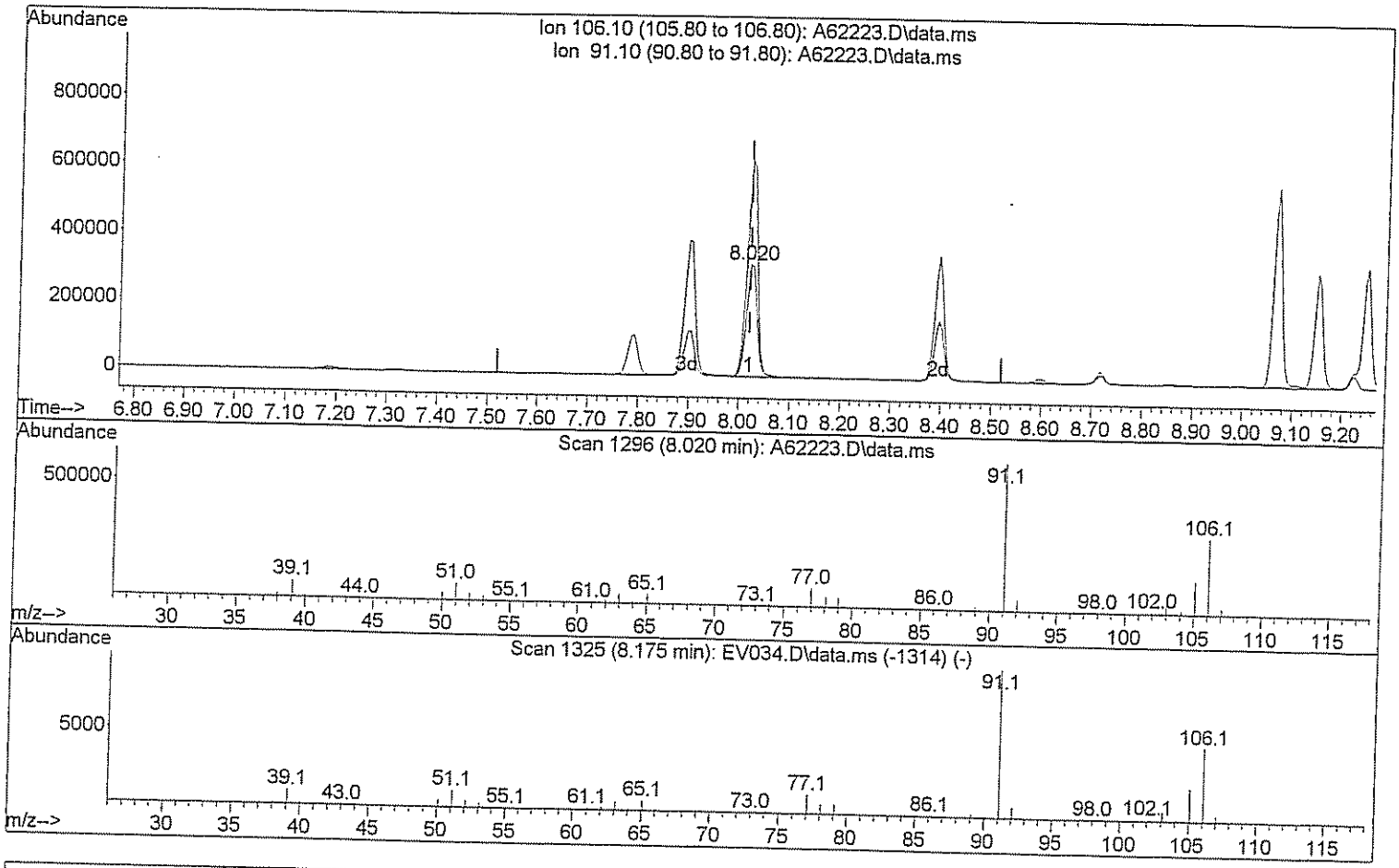
response 227721

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	66.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 110.42 ug/L

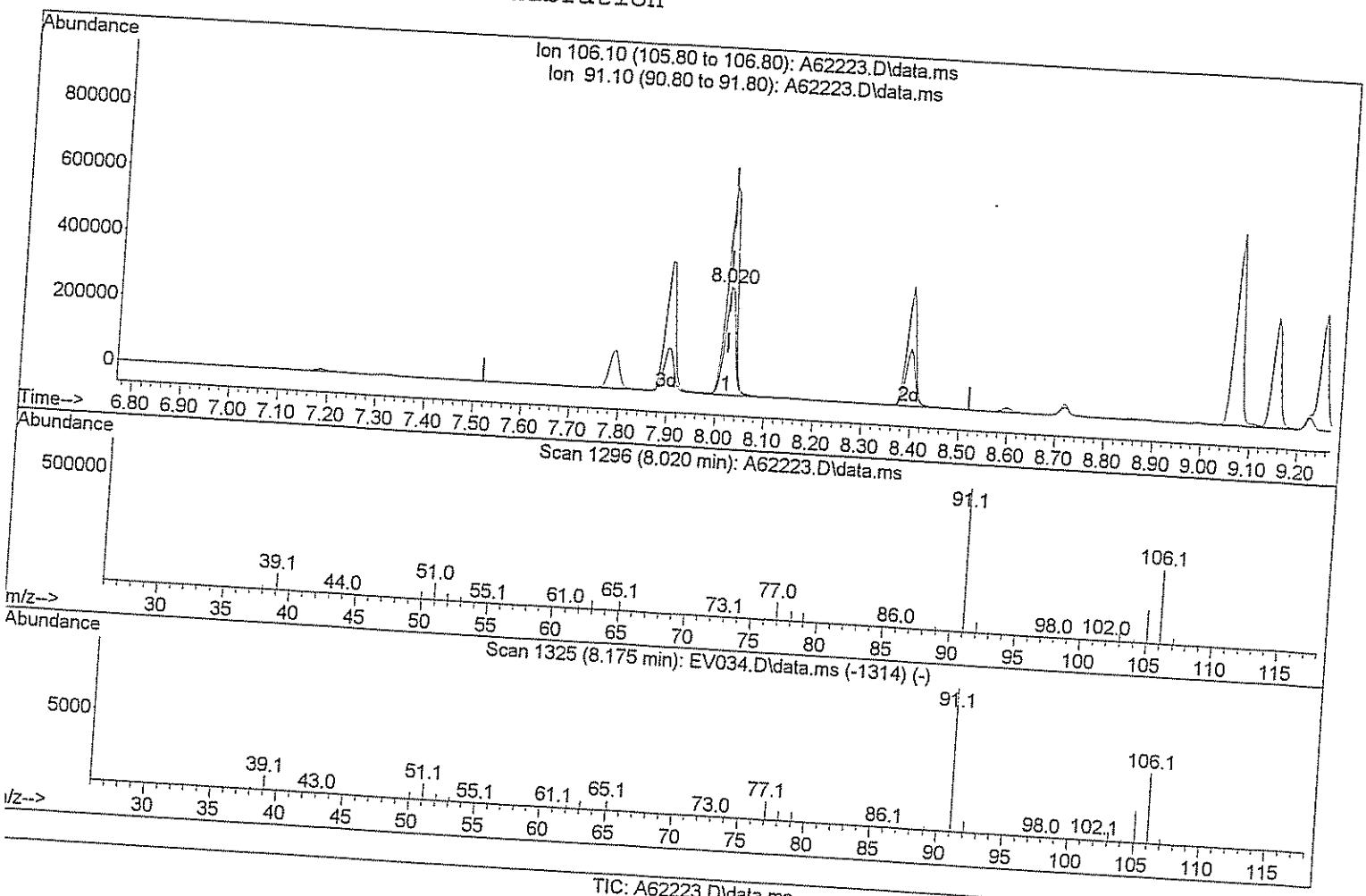
response 469420

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 163.62 ug/L m DM 3/17/09

response 695566

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.95#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 17:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	75	0.00
2		Dichlorodifluoromethane	0.113	0.100	11.5	86	0.01
3		Chloromethane	0.142	0.166	-16.9	117	0.01
4		Vinyl chloride	0.183	0.194	-6.0	87	0.01
5		Bromomethane	0.064	0.076	-18.7	105	0.00
6		Chloroethane	0.142	0.133	6.3	85	0.00
7		Trichlorofluoromethane	0.239	0.308	-28.9#	106	0.01
8		Ethyl Ether	0.186	0.171	8.1	86	0.00
9		Freon 113	0.170	0.196	-15.3	113	0.00
10		Acrolein	0.043	0.030	30.2#	73	0.00
11		Tert-Butyl alcohol	0.020	0.013	35.0#	84	0.00
12		1,1-Dichloroethene	0.184	0.181	1.6	96	0.00
13		Iodomethane	0.164	0.349	-112.8#	144	0.01
14		Acetonitrile	0.096	0.146	-52.1#	124	0.00
15		Methylene chloride	0.257	0.212	17.5	87	0.00
16		Trans-1,2-dichloroethene	0.200	0.204	-2.0	91	0.00
17		Isopropyl ether	0.805	0.766	4.8	86	0.01
18		1,1-Dichloroethane	0.356	0.386	-8.4	92	0.00
19		Acetone	0.092	0.059	35.9#	78	0.01
20		Methyl Acetate	0.209	0.135	35.4#	67	0.00
21		MTBE	0.579	0.598	-3.3	92	0.00
22		Carbon disulfide	0.764	0.517	32.3#	82	0.01
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.063	16.0	88	0.00
25		Chloroprene	0.341	0.321	5.9	89	0.01
26	T	n-Heptane	0.174	0.008	95.4#	4#	0.12
27		2,2-Dichloropropane	0.291	0.305	-4.8	86	0.00
28		Cis-1,2-dichloroethene	0.238	0.225	5.5	81	0.00
29		1,2-dichloroethene(total)	0.217	0.217	0.0	85	0.00
30		Propionitrile	0.032	0.025	21.9	70	0.00
31		Bromochloromethane	0.115	0.134	-16.5	95	0.00
32		Tetrahydrofuran	0.059	0.046	22.0	68	0.00
33		Chloroform	0.403	0.414	-2.7	89	0.00
34		Cyclohexane	0.398	0.347	12.8	81	0.00
35		1,1,1-Trichloroethane	0.307	0.341	-11.1	85	0.00
36		Carbon tetrachloride	0.232	0.312	-34.5#	89	0.00
37		Methylcyclohexane	0.342	0.353	-3.2	81	0.00
38		Isobutyl Alcohol	0.016	0.007	56.3#	36#	-0.18

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 17:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.290	-5.1	81	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
41		2-Butanone	0.191	0.133	30.4#	76	0.00
42		1,1-Dichloropropene	0.326	0.316	3.1	77	0.00
43		Vinyl Acetate	0.357	0.282	21.0	75	0.00
44		Benzene	1.078	0.955	11.4	73	0.00
45		1,2-Dichloroethane	0.340	0.314	7.6	74	0.00
46		Trichloroethene	0.276	0.248	10.1	74	0.00
47		1,2-Dichloropropane	0.280	0.249	11.1	68	0.00
48		Methyl methacrylate	0.221	0.167	24.4	67	0.00
49		Dibromomethane	0.170	0.170	0.0	77	0.00
50		Bromodichloromethane	0.361	0.341	5.5	73	0.00
51		2-Chloroethylvinyl ether	0.188	0.149	20.7	63	0.00
52		Cis-1,3-dichloropropene	0.408	0.388	4.9	67	0.01
53	SS	Toluene-d8	1.110	1.084	2.3	103	0.00
54		Toluene	0.589	0.627	-6.5	98	0.00
55		Trans-1,3-dichloropropene	0.372	0.338	9.1	86	0.00
56		Ethyl methacrylate	0.349	0.299	14.3	86	0.00
57		1,1,2-Trichloroethane	0.208	0.197	5.3	96	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	127	0.00
59		4-Methyl-2-pentanone	0.350	0.223	36.3#	87	0.00
60		2-Hexanone	0.240	0.170	29.2#	93	0.00
61		Tetrachloroethene	0.264	0.287	-8.7	130	0.00
62		1,3-Dichloropropane	0.405	0.374	7.7	112	0.00
63		Dibromochloromethane	0.278	0.276	0.7	116	0.01
64		1,2-Dibromoethane	0.251	0.229	8.8	107	0.00
65		1-Chlorohexane	0.415	0.356	14.2	114	0.00
66		Chlorobenzene	0.821	0.836	-1.8	123	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.334	-9.5	129	0.00
68		Ethylbenzene	1.403	1.321	5.8	117	0.00
69		m,p-Xylene	0.579	0.569	1.7	122	0.00
70		o-Xylene	0.571	0.567	0.7	119	0.00
71		Xylene (Total)	0.573	0.571	0.3	121	0.00
72		Styrene	0.959	0.958	0.1	120	0.00
73		Bromoform	0.187	0.198	-5.9	119	0.00
74		Isopropylbenzene	1.268	1.290	-1.7	124	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 17:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.501	-1.0	128	0.00
76		Bromobenzene	0.362	0.404	-11.6	137	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.334	13.7	109	0.00
78		1,2,3-Trichloropropane	0.116	0.102	12.1	114	0.00
79		n-Propylbenzene	1.718	1.720	-0.1	119	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.098	10.9	107	0.00
81		2-Chlorotoluene	0.368	0.415	-12.8	132	0.00
82		4-Chlorotoluene	0.392	0.424	-8.2	130	0.00
83		1,3,5-Trimethylbenzene	1.331	1.348	-1.3	123	0.00
84		Tert-butylbenzene	1.188	1.275	-7.3	131	0.00
85		Pentachloroethane	0.000	0.000	0.0	127	0.00
86		1,2,4-Trimethylbenzene	1.416	1.400	1.1	123	0.00
87		Sec-Butylbenzene	1.840	1.870	-1.6	124	0.00
88		1,3-Dichlorobenzene	0.805	0.914	-13.5	143	0.00
89		4-Isopropyltoluene	1.579	1.725	-9.2	132	0.00
90		1,4-Dichlorobenzene	0.804	0.900	-11.9	138	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.622	-15.0	146	0.00
92		1,2-Dichlorobenzene	0.773	0.852	-10.2	137	0.00
93		n-Butylbenzene	1.496	1.453	2.9	120	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.063	18.2	102	0.00
95		1,2,4-Trichlorobenzene	0.529	0.571	-7.9	140	0.00
96		Hexachlorobutadiene	0.235	0.243	-3.4	149	0.00
97		Naphthalene	1.447	1.349	6.8	120	0.00
98		1,2,3-Trichlorobenzene	0.473	0.494	-4.4	134	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 17:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	366780	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	320456	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.779	117	379848	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	106224	52.42	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.84%				
53) Toluene-d8	6.148	98	347464	48.85	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 97.70%				
75) 4-Bromofluorobenzene	8.881	95	190288	50.48	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.96%				
91) 1,2-Dichlorobenzene-d4	10.085	152	236281	57.46	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.92%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	36609	44.11	ug/L		99
3) Chloromethane	1.360	50	60986	58.67	ug/L		98
4) Vinyl chloride	1.424	62	71166	45.53	ug/L		94
5) Bromomethane	1.654	94	28020	59.51	ug/L		87
6) Chloroethane	1.724	64	48959	47.04	ug/L		100
7) Trichlorofluoromethane	1.868	101	113099	64.39	ug/L		96
8) Ethyl Ether	2.066	59	62587	45.96	ug/L		97
9) Freon 113	2.205	101	71985	57.85	ug/L		92
10) Acrolein	2.210	56	54848	245.84	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	96399	1267.39	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	66206	49.08	ug/L		89
13) Iodomethane	2.360	142	127930	106.14	ug/L		97
14) Acetonitrile	2.505	40	536469	621.80	ug/L	#	1
15) Methylene chloride	2.612	84	77814	47.62	ug/L		95
16) Trans-1,2-dichloroethene	2.772	96	74714	50.93	ug/L		84
17) Isopropyl ether	3.109	45	280837	47.59	ug/L		97
18) 1,1-Dichloroethane	3.125	63	141510	54.18	ug/L		98
19) Acetone	2.323	43	43409	112.32	ug/L		95
20) Methyl Acetate	4.265	43	49562	60.83	ug/L	#	100
21) MTBE	2.756	73	219245	51.65	ug/L		100
22) Carbon disulfide	2.382	76	189551	46.33	ug/L		100
24) Acrylonitrile	2.852	53	116438	284.55	ug/L		97
25) Chloroprene	3.168	53	117766	47.14	ug/L		90
26) n-Heptane	4.570	71	2934	2.30	ug/L	#	1
27) 2,2-Dichloropropane	3.564	77	111799	52.41	ug/L	#	78
28) Cis-1,2-dichloroethene	3.596	96	82603	47.35	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 17:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.596	96	159157m	99.92 ug/L		
30) Propionitrile	3.746	54	91800	395.44 ug/L		99
31) Bromochloromethane	3.799	128	49008	57.85 ug/L	#	72
32) Tetrahydrofuran	3.617	72	16802	38.54 ug/L	#	22
33) Chloroform	3.847	83	152030	51.38 ug/L		100
34) Cyclohexane	3.949	56	127250	48.53 ug/L		90
35) 1,1,1-Trichloroethane	3.970	97	124891	55.39 ug/L		98
36) Carbon tetrachloride	4.077	117	114419	55.07 ug/L		98
37) Methylcyclohexane	5.003	83	129482	51.65 ug/L		90
38) Isobutyl Alcohol	4.265	43	49562	424.96 ug/L		96
41) 2-Butanone	3.623	43	85247	97.25 ug/L		95
42) 1,1-Dichloropropene	4.109	75	101201	48.46 ug/L		97
43) Vinyl Acetate	3.152	43	90388	39.52 ug/L		96
44) Benzene	4.297	78	306004	44.30 ug/L		100
45) 1,2-Dichloroethane	4.382	62	100614m	46.11 ug/L		
46) Trichloroethene	4.896	95	79354	44.80 ug/L	#	75
47) 1,2-Dichloropropane	5.169	63	79728	44.38 ug/L		99
48) Methyl methacrylate	5.270	69	53380	45.20 ug/L		95
49) Dibromomethane	5.286	93	54568	50.01 ug/L		94
50) Bromodichloromethane	5.436	83	109432	47.36 ug/L	#	98
51) 2-Chloroethylvinyl ether	5.784	63	191361	158.81 ug/L		96
52) Cis-1,3-dichloropropene	5.923	75	124317	41.59 ug/L		97
54) Toluene	6.223	92	200919	53.26 ug/L		100
55) Trans-1,3-dichloropropene	6.576	75	108358	45.39 ug/L		99
56) Ethyl methacrylate	6.629	69	95690	42.81 ug/L		91
57) 1,1,2-Trichloroethane	6.779	83	62991	47.24 ug/L		89
59) 4-Methyl-2-pentanone	6.100	43	169351	63.76 ug/L		95
60) 2-Hexanone	7.068	43	129395	71.06 ug/L	#	96
61) Tetrachloroethene	6.795	166	109062	54.34 ug/L		99
62) 1,3-Dichloropropane	6.977	76	142252	46.22 ug/L		89
63) Dibromochloromethane	7.186	129	104988	49.68 ug/L		100
64) 1,2-Dibromoethane	7.319	107	86806	45.44 ug/L		96
65) 1-Chlorohexane	7.790	91	135141	42.85 ug/L		95
66) Chlorobenzene	7.811	112	317617	50.91 ug/L		89
67) 1,1,1,2-Tetrachloroethane	7.908	131	126847	49.12 ug/L		98
68) Ethylbenzene	7.897	91	501775	47.09 ug/L		98
69) m,p-Xylene	8.020	106	432556	98.30 ug/L		86
70) o-Xylene	8.395	106	215412	49.66 ug/L		88
71) Xylene (Total)	8.020	106	650167m	149.44 ug/L		
72) Styrene	8.421	104	363783	49.91 ug/L		94
73) Bromoform	8.598	173	75150	44.62 ug/L		99
74) Isopropylbenzene	8.716	105	490180	50.87 ug/L		94

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

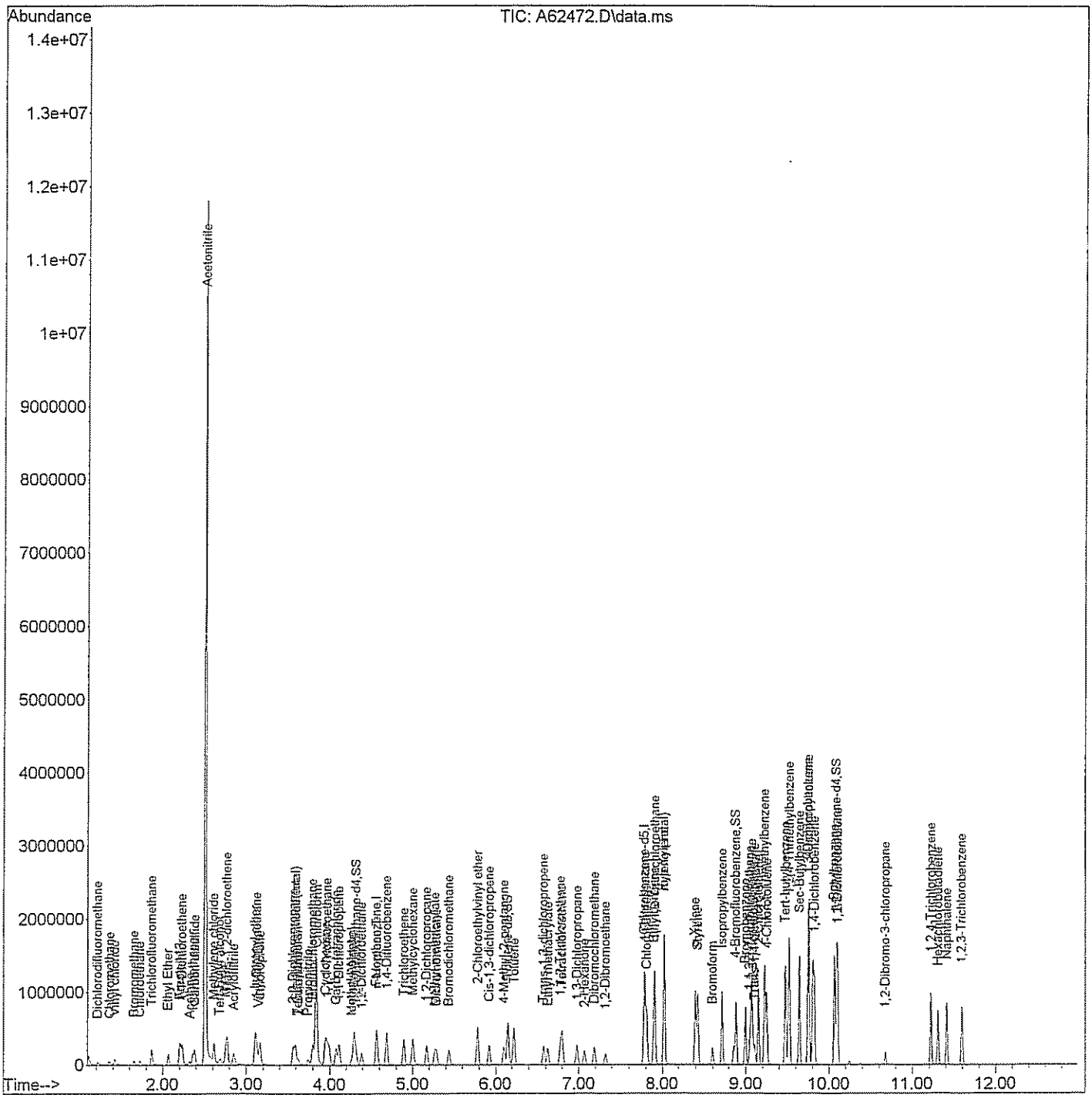
Quant Time: Mar 24 17:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
76) Bromobenzene	8.994	156	153335	55.70 ug/L		99
77) 1,1,2,2-Tetrachloroethane	9.047	83	126857	43.10 ug/L		97
78) 1,2,3-Trichloropropane	9.085	110	38619	43.96 ug/L		98
79) n-Propylbenzene	9.069	91	653451	50.07 ug/L		95
80) Trans-1,4-dichloro-2-b...	9.106	53	37051	44.30 ug/L	#	1
81) 2-Chlorotoluene	9.149	126	157455	56.26 ug/L		89
82) 4-Chlorotoluene	9.251	126	160868	54.05 ug/L		80
83) 1,3,5-Trimethylbenzene	9.224	105	512111	50.66 ug/L		94
84) Tert-butylbenzene	9.470	119	484128	53.62 ug/L		94
86) 1,2,4-Trimethylbenzene	9.518	105	531871	49.46 ug/L		90
87) Sec-Butylbenzene	9.641	105	710492	50.82 ug/L		95
88) 1,3-Dichlorobenzene	9.748	146	347178	56.76 ug/L		98
89) 4-Isopropyltoluene	9.753	119	655252	54.62 ug/L		95
90) 1,4-Dichlorobenzene	9.823	146	341991	56.01 ug/L		100
92) 1,2-Dichlorobenzene	10.101	146	323456	55.05 ug/L		97
93) n-Butylbenzene	10.058	91	551766	48.55 ug/L	#	88
94) 1,2-Dibromo-3-chloropr...	10.679	75	24064	41.40 ug/L	#	77
95) 1,2,4-Trichlorobenzene	11.225	180	216752	53.93 ug/L		98
96) Hexachlorobutadiene	11.305	225	92481	51.76 ug/L		98
97) Naphthalene	11.412	128	512448	46.62 ug/L		100
98) 1,2,3-Trichlorobenzene	11.594	180	187675	52.24 ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

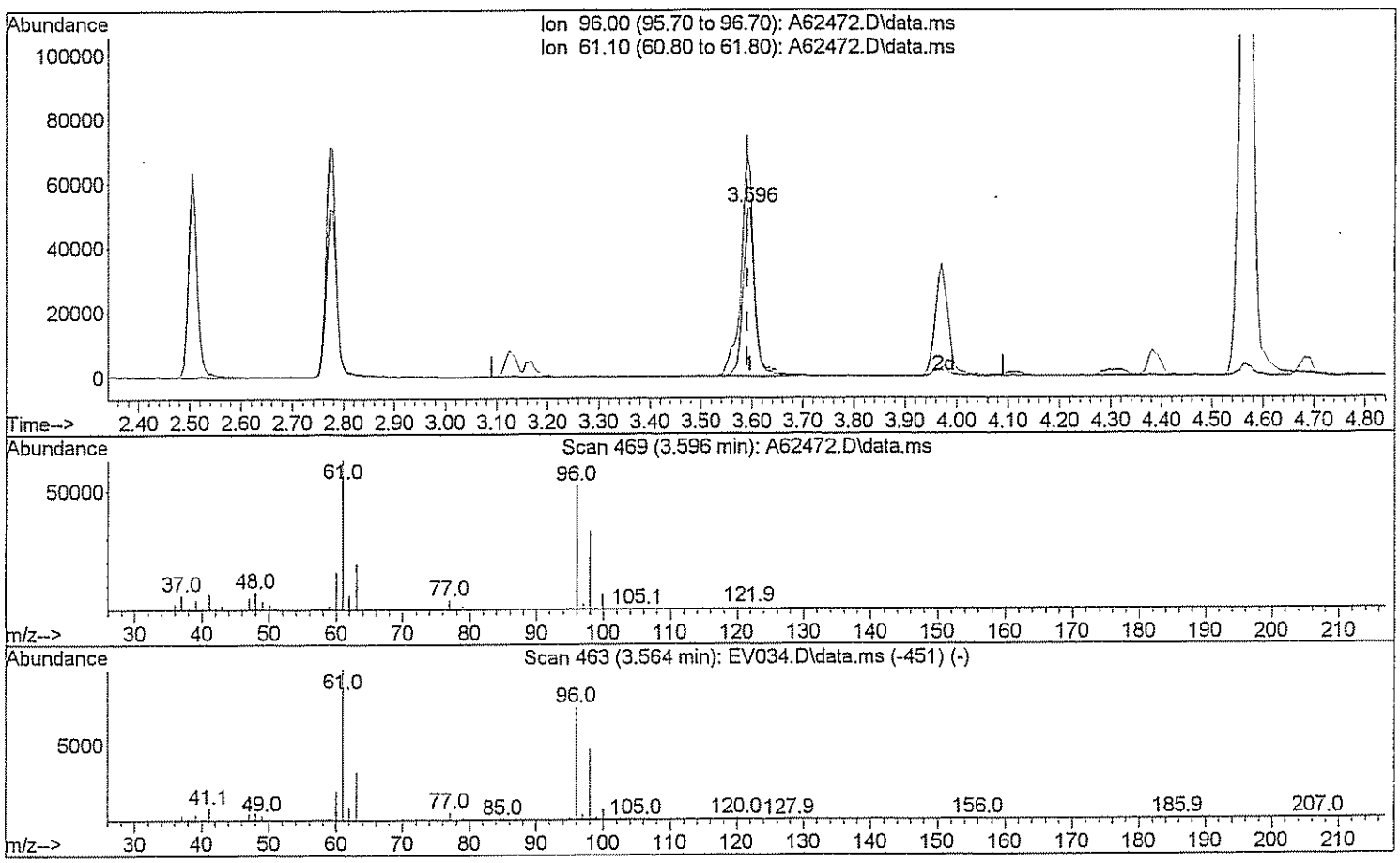
Quant Time: Mar 24 17:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 10:08:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62472.D\data.ms

(29) 1,2-dichloroethene(total)

3.596min (+0.005) 51.86 ug/L

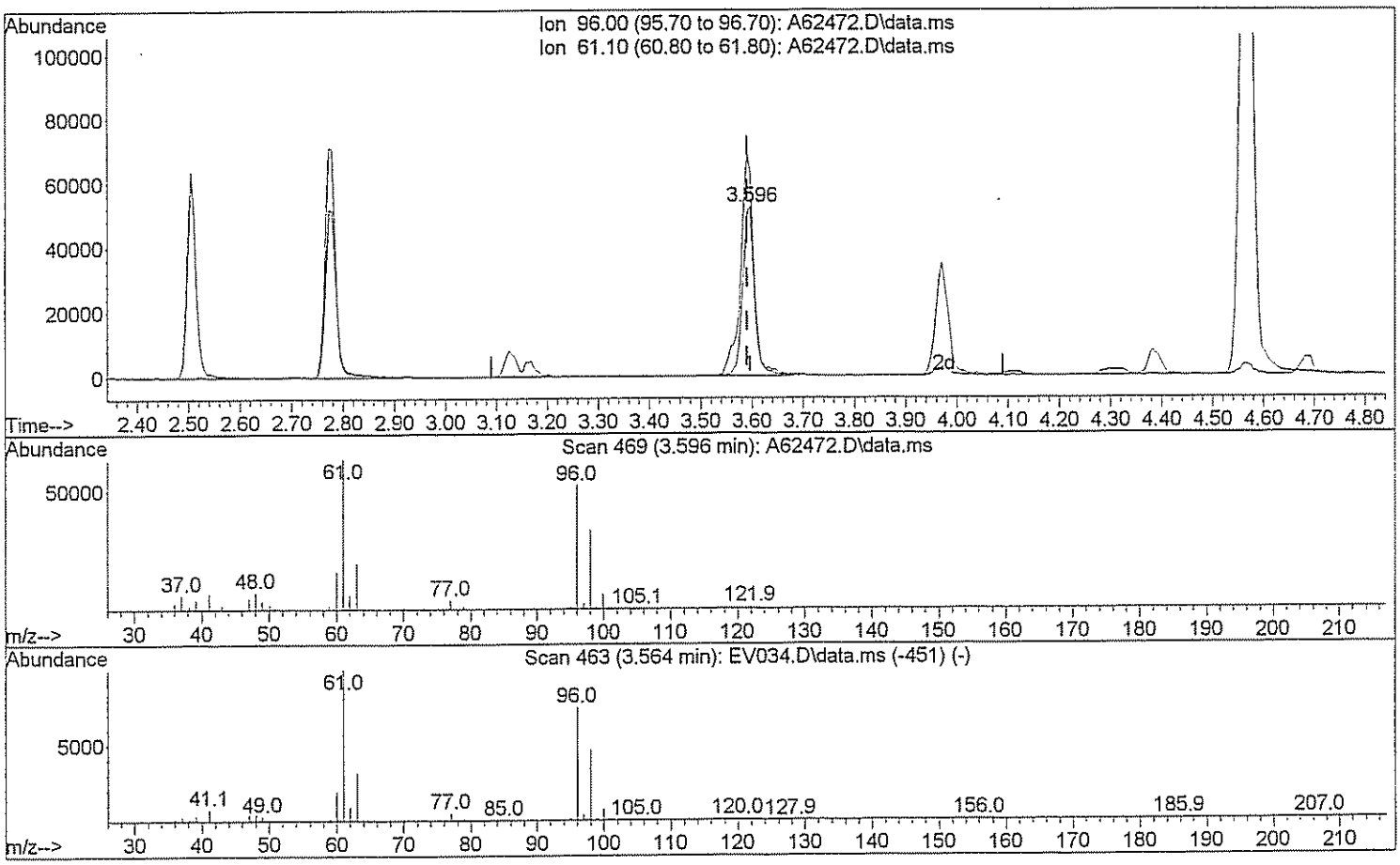
response 82603

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	150.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 10:08:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62472.D\data.ms

(29) 1,2-dichloroethene(total)

3.596min (+0.005) 99.92 ug/L m 3/24/09

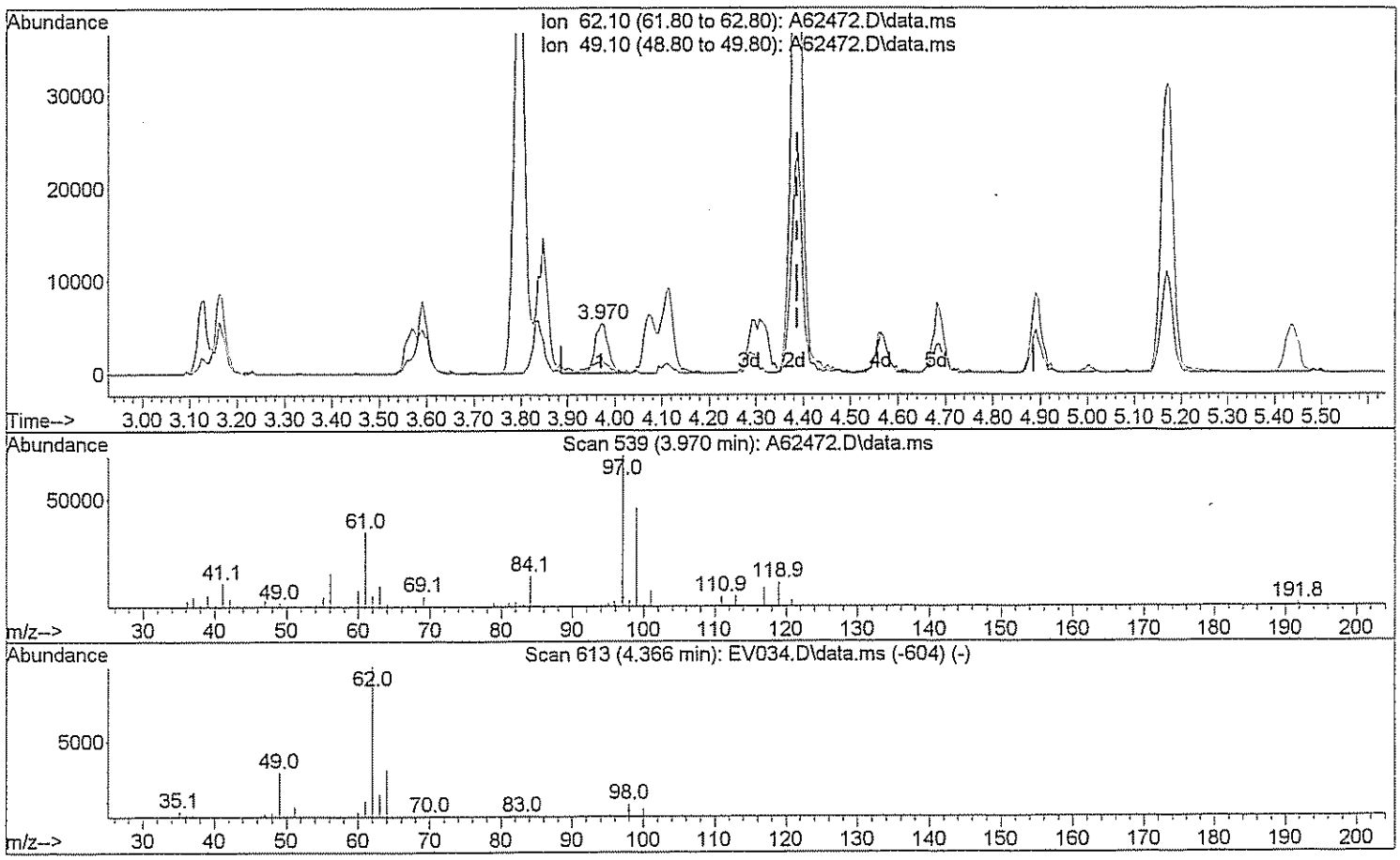
response 159157

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	78.09#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 10:08:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62472.D\data.ms

(45) 1,2-Dichloroethane

3.970min (-0.417) 4.74 ug/L

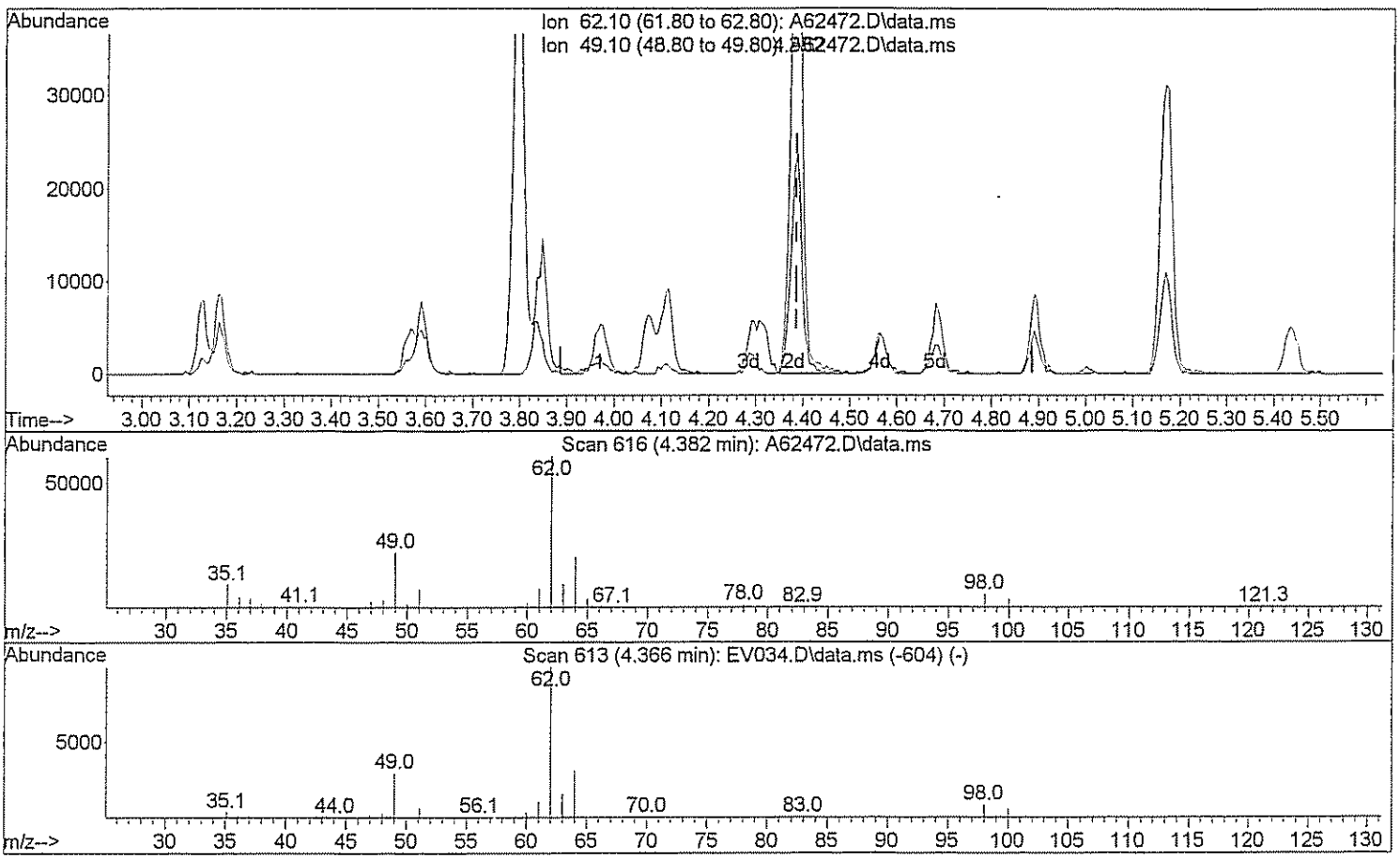
response 10346

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	34.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 10:08:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62472.D\data.ms

(45) 1,2-Dichloroethane

4.382min (-0.005) 46.11 ug/L m Am 3/24/09

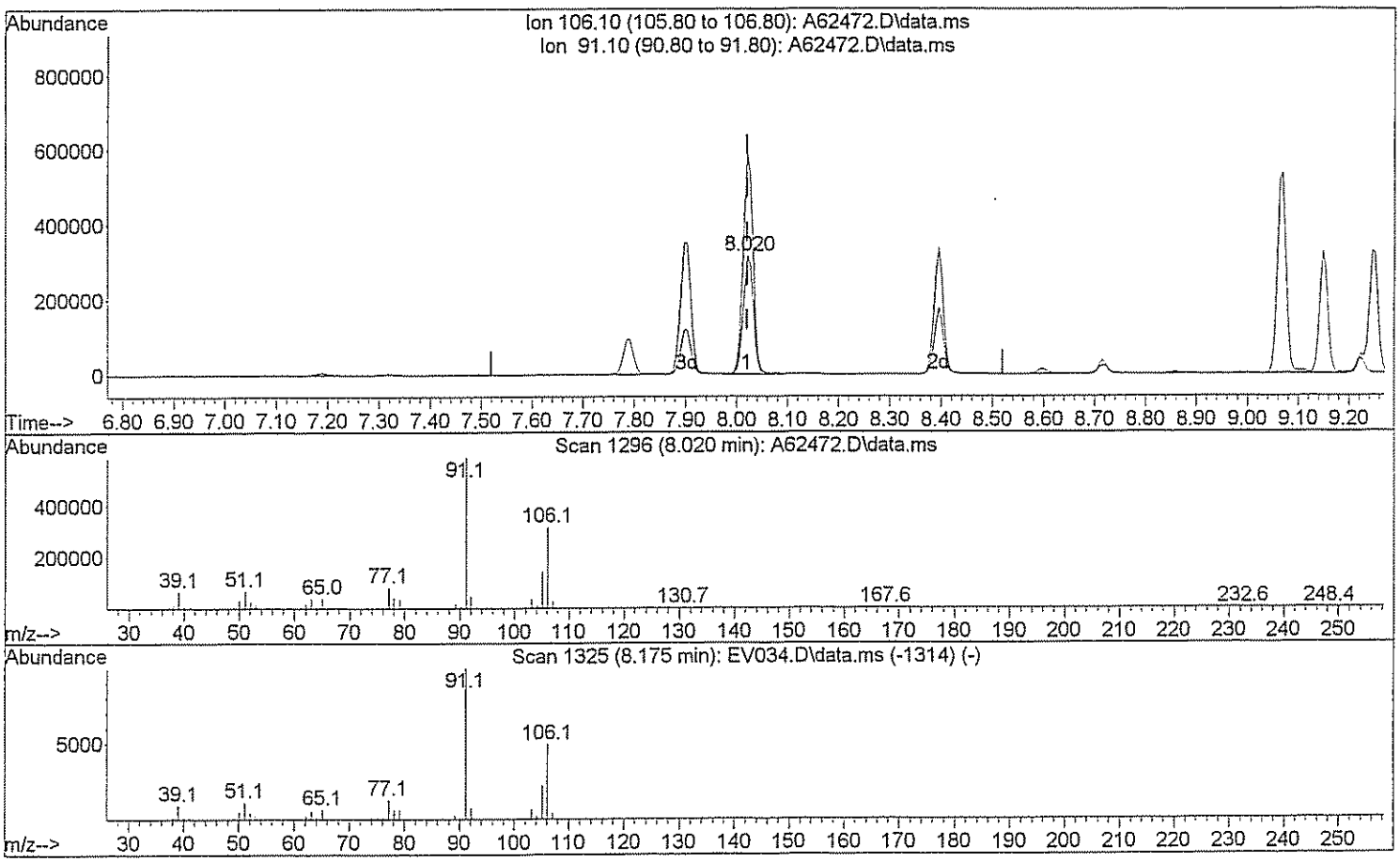
response 100614

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	3.56#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 10:08:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62472.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 99.42 ug/L

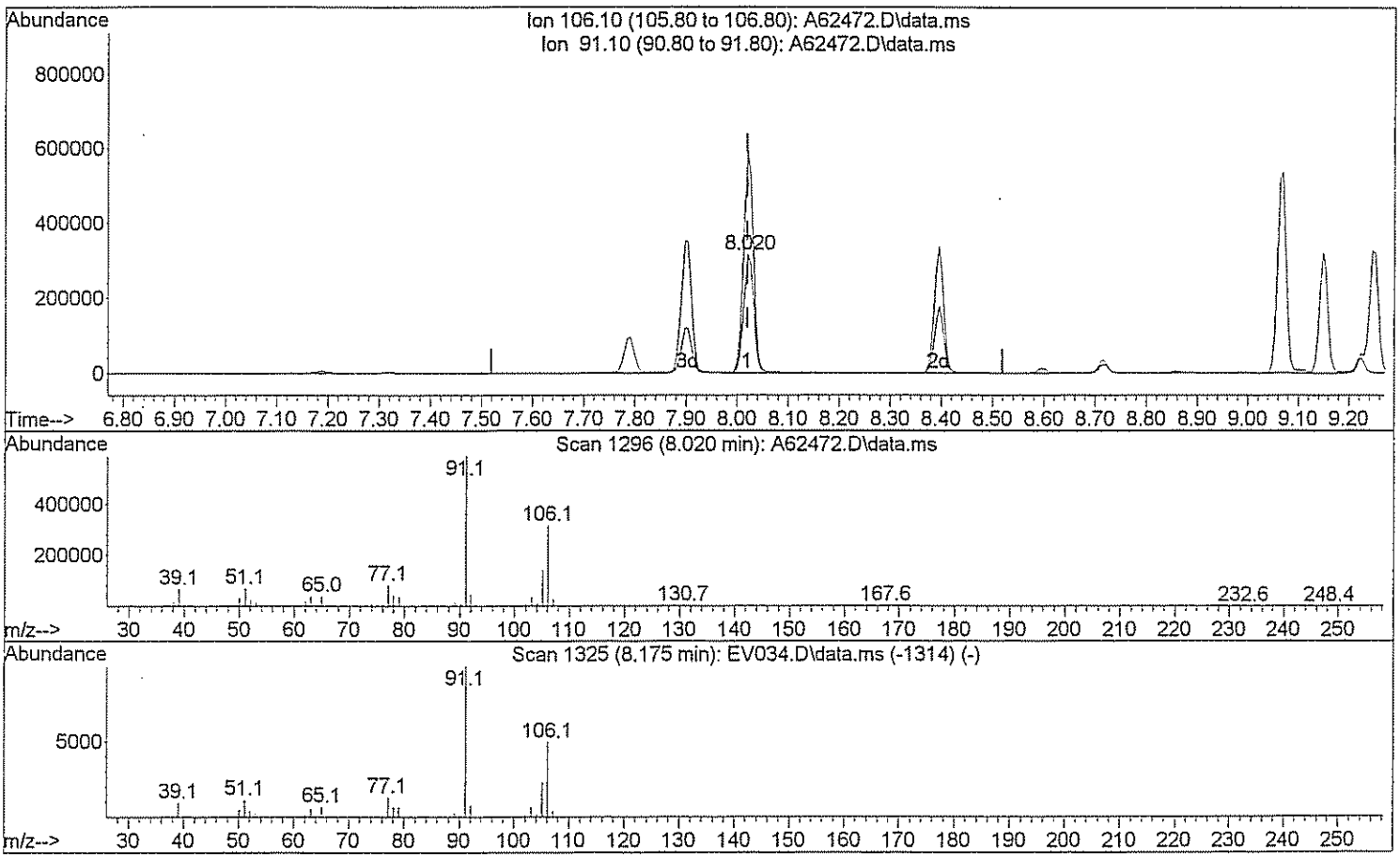
response 432556

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	186.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62472.D
Acq On : 24 Mar 2009 9:42
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 24 10:08:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62472.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 149.44 ug/L m SM 3/24/09

response 650167

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	123.83#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00
2		Dichlorodifluoromethane	0.089	0.089	0.0	82	0.00
3		Chloromethane	0.174	0.153	12.1	96	0.00
4		Vinyl chloride	0.207	0.189	8.7	81	0.00
5		Bromomethane	0.115	0.335	-191.3#	388#	0.00
6		Chloroethane	0.145	0.135	6.9	86	0.00
7		Trichlorofluoromethane	0.256	0.297	-16.0	93	0.00
8		Ethyl Ether	0.178	0.169	5.1	81	0.00
9		Freon 113	0.158	0.196	-24.1#	108	0.00
10		Acrolein	0.036	0.030	16.7	75	0.00
11		Tert-Butyl alcohol	0.020	0.018	10.0	61	0.00
12		1,1-Dichloroethene	0.182	0.176	3.3	85	0.00
13		Iodomethane	0.211	0.334	-58.3#	332#	0.00
14		Acetonitrile	0.108	0.160	-48.1#	117	0.00
15		Methylene chloride	0.252	0.212	15.9	86	0.00
16		Trans-1,2-dichloroethene	0.209	0.203	2.9	83	0.00
17		Isopropyl ether	0.812	0.778	4.2	81	0.00
18		1,1-Dichloroethane	0.374	0.407	-8.8	90	0.00
19		Acetone	0.095	0.066	30.5#	65	0.00
20		Methyl Acetate	0.186	0.179	3.8	63	0.00
21		MTBE	0.545	0.573	-5.1	85	0.00
22		Carbon disulfide	0.679	0.526	22.5#	78	0.00
23		Allyl Chloride	0.000	0.000	0.0	114	0.00
24		Acrylonitrile	0.063	0.062	1.6	83	0.00
25		Chloroprene	0.357	0.334	6.4	85	0.00
26	T	n-Heptane	0.183	0.009	95.1#	5#	0.11
27		2,2-Dichloropropane	0.313	0.321	-2.6	87	0.00
28		Cis-1,2-dichloroethene	0.253	0.236	6.7	84	0.00
29		1,2-dichloroethene(total)	0.268	0.226	15.7	84	0.00
30		Propionitrile	0.031	0.028	9.7	73	0.00
31		Bromochloromethane	0.109	0.134	-22.9#	102	0.00
32		Tetrahydrofuran	0.051	0.044	13.7	72	0.00
33		Chloroform	0.426	0.436	-2.3	99	0.00
34		Cyclohexane	0.392	0.342	12.8	86	0.00
35		1,1,1-Trichloroethane	0.318	0.350	-10.1	95	0.00
36		Carbon tetrachloride	0.272	0.319	-17.3	99	0.00
37		Methacrylonitrile	0.170	0.165	2.9	86	0.00
38		Methylcyclohexane	0.338	0.344	-1.8	93	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	51	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.283	-6.4	97	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
42		2-Butanone	0.163	0.134	17.8	71	0.00
43		1,1-Dichloropropene	0.339	0.328	3.2	87	0.00
44		Vinyl Acetate	0.381	0.304	20.2#	75	0.00
45		Benzene	1.058	0.971	8.2	85	0.00
46		1,2-Dichloroethane	0.332	0.319	3.9	87	0.00
47		Trichloroethene	0.272	0.256	5.9	90	0.00
48		1,2-Dichloropropane	0.271	0.256	5.5	84	0.00
49		Methyl methacrylate	0.196	0.164	16.3	80	0.00
50		Dibromomethane	0.167	0.166	0.6	93	0.00
51		Bromodichloromethane	0.354	0.388	-9.6	101	0.00
52		2-Chloroethylvinyl ether	0.108	0.048	55.6#	29#	0.00
53		Cis-1,3-dichloropropene	0.427	0.486	-13.8	102	0.00
54	SS	Toluene-d8	1.159	1.359	-17.3	115	0.00
55		Toluene	0.694	0.825	-18.9	109	0.00
56		Trans-1,3-dichloropropene	0.387	0.421	-8.8	96	0.00
57		Ethyl methacrylate	0.347	0.384	-10.7	103	0.00
58		1,1,2-Trichloroethane	0.208	0.238	-14.4	106	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	123	0.00
60		4-Methyl-2-pentanone	0.292	0.243	16.8	93	0.00
61		2-Hexanone	0.210	0.168	20.0	87	0.00
62		Tetrachloroethene	0.288	0.327	-13.5	132	0.00
63		1,3-Dichloropropane	0.416	0.391	6.0	106	0.00
64		Dibromochloromethane	0.301	0.307	-2.0	117	0.00
65		1,2-Dibromoethane	0.257	0.238	7.4	108	0.00
66		1-Chlorohexane	0.432	0.379	12.3	106	0.00
67		Chlorobenzene	0.848	0.850	-0.2	115	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.332	-9.2	124	0.00
69		Ethylbenzene	1.451	1.351	6.9	110	0.00
70		m,p-Xylene	0.570	0.578	-1.4	115	0.00
71		o-Xylene	0.578	0.562	2.8	115	0.00
72		Xylene (Total)	0.586	0.573	2.2	115	0.00
73		Styrene	0.960	0.958	0.2	115	0.00
74		Bromoform	0.187	0.196	-4.8	114	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.254	-2.1	119	0.00
76	SS	4-Bromofluorobenzene	0.471	0.468	0.6	120	0.00
77		Bromobenzene	0.336	0.378	-12.5	131	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.299	9.4	103	0.00
79		1,2,3-Trichloropropane	0.098	0.095	3.1	112	0.00
80		n-Propylbenzene	1.700	1.660	2.4	114	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.065	21.7#	73	0.00
82		2-Chlorotoluene	0.361	0.384	-6.4	123	0.00
83		4-Chlorotoluene	0.374	0.406	-8.6	128	0.00
84		1,3,5-Trimethylbenzene	1.207	1.236	-2.4	119	0.00
85		Tert-butylbenzene	1.049	1.127	-7.4	123	0.00
86		Pentachloroethane	0.000	0.000	0.0	128	0.00
87		1,2,4-Trimethylbenzene	1.254	1.311	-4.5	122	0.00
88		Sec-Butylbenzene	1.607	1.698	-5.7	121	0.00
89		1,3-Dichlorobenzene	0.706	0.819	-16.0	136	0.00
90		4-Isopropyltoluene	1.367	1.573	-15.1	128	0.00
91		1,4-Dichlorobenzene	0.708	0.810	-14.4	133	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.535	-15.8	141	0.00
93		1,2-Dichlorobenzene	0.674	0.758	-12.5	135	0.00
94		n-Butylbenzene	1.349	1.330	1.4	117	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.049	14.0	97	0.00
96		1,2,4-Trichlorobenzene	0.409	0.463	-13.2	136	0.00
97		Hexachlorobutadiene	0.190	0.223	-17.4	139	0.00
98		Naphthalene	0.975	0.977	-0.2	109	0.00
99		1,2,3-Trichlorobenzene	0.342	0.382	-11.7	129	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.554	96	468610	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.677	114	415116	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	492903	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	132556	53.25	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.50%				
54) Toluene-d8	6.142	98	564001	58.63	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 117.26%				
76) 4-Bromofluorobenzene	8.881	95	230475	49.61	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.22%				
92) 1,2-Dichlorobenzene-d4	10.085	152	263479	57.82	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.189	85	41601	50.10	ug/L		97
3) Chloromethane	1.333	50	71900	44.01	ug/L		99
4) Vinyl chloride	1.397	62	88778	45.78	ug/L		97
5) Bromomethane	1.617	94	157080	128.29	ug/L		87
6) Chloroethane	1.686	64	63060	46.32	ug/L		100
7) Trichlorofluoromethane	1.836	101	139314	49.50	ug/L		96
8) Ethyl Ether	2.045	59	79217	47.52	ug/L		95
9) Freon 113	2.178	101	92061	62.08	ug/L		98
10) Acrolein	2.189	56	69288	206.73	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	164327	864.02	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	82621	48.54	ug/L		92
13) Iodomethane	2.333	142	156342	78.98	ug/L		97
14) Acetonitrile	2.483	40	747875	601.28	ug/L	#	1
15) Methylene chloride	2.590	84	99388	45.20	ug/L		97
16) Trans-1,2-dichloroethene	2.751	96	95067	48.63	ug/L		88
17) Isopropyl ether	3.093	45	364682	47.95	ug/L		98
18) 1,1-Dichloroethane	3.109	63	190654	54.42	ug/L		97
19) Acetone	2.296	43	61459	76.95	ug/L		92
20) Methyl Acetate	4.265	43	83783	34.82	ug/L	#	100
21) MTBE	2.740	73	268611	52.62	ug/L		100
22) Carbon disulfide	2.355	76	246292	41.75	ug/L		100
24) Acrylonitrile	2.831	53	144108	243.06	ug/L		98
25) Chloroprene	3.147	53	156387	46.73	ug/L		91
26) n-Heptane	4.554	71	4023	2.35	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	150501	51.34	ug/L	#	73
28) Cis-1,2-dichloroethene	3.575	96	110501	46.58	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	211817m	84.35	ug/L		
30) Propionitrile	3.735	54	131724	449.93	ug/L		99
31) Bromochloromethane	3.783	128	62641	61.20	ug/L	#	70
32) Tetrahydrofuran	3.789	72	20774	43.22	ug/L	#	22
33) Chloroform	3.837	83	204178	51.11	ug/L		97
34) Cyclohexane	3.933	56	160400	45.95	ug/L		90
35) 1,1,1-Trichloroethane	3.960	97	163858	54.95	ug/L		98
36) Carbon tetrachloride	4.061	117	149310	58.49	ug/L		100
37) Methacrylonitrile	3.826	41	775044	486.51	ug/L	#	19
38) Methylcyclohexane	4.992	83	161255	50.86	ug/L		90
39) Isobutyl Alcohol	4.265	43	83783	603.03	ug/L		94
42) 2-Butanone	3.612	43	110977	81.95	ug/L		94
43) 1,1-Dichloropropene	4.099	75	136360	48.46	ug/L		100
44) Vinyl Acetate	3.136	43	126342	39.91	ug/L		99
45) Benzene	4.281	78	402999	45.87	ug/L		100
46) 1,2-Dichloroethane	4.377	62	132556	48.12	ug/L	#	83
47) Trichloroethene	4.885	95	106210	47.07	ug/L	#	79
48) 1,2-Dichloropropane	5.158	63	106442	47.28	ug/L		99
49) Methyl methacrylate	5.260	69	68166	41.81	ug/L		94
50) Dibromomethane	5.276	93	68924	49.77	ug/L		96
51) Bromodichloromethane	5.431	83	160961	54.77	ug/L	#	99
52) 2-Chloroethylvinyl ether	5.779	63	79765	88.99	ug/L		97
53) Cis-1,3-dichloropropene	5.918	75	201611	56.92	ug/L		100
55) Toluene	6.217	92	342372	59.45	ug/L		98
56) Trans-1,3-dichloropropene	6.570	75	174935	54.52	ug/L		97
57) Ethyl methacrylate	6.624	69	159466	55.34	ug/L		97
58) 1,1,2-Trichloroethane	6.774	83	98997	57.29	ug/L		97
60) 4-Methyl-2-pentanone	6.094	43	239580	83.35	ug/L		93
61) 2-Hexanone	7.063	43	165446	79.74	ug/L		96
62) Tetrachloroethene	6.795	166	161295	56.77	ug/L		97
63) 1,3-Dichloropropane	6.972	76	192499	46.94	ug/L		90
64) Dibromochloromethane	7.186	129	151490	51.02	ug/L		98
65) 1,2-Dibromoethane	7.314	107	117222	46.27	ug/L		100
66) 1-Chlorohexane	7.785	91	186745	43.81	ug/L		93
67) Chlorobenzene	7.806	112	418902	50.13	ug/L		88
68) 1,1,1,2-Tetrachloroethane	7.908	131	163834	54.74	ug/L		97
69) Ethylbenzene	7.897	91	666111	46.56	ug/L		97
70) m,p-Xylene	8.020	106	569519	101.34	ug/L		86
71) o-Xylene	8.395	106	277110	48.67	ug/L		90
72) Xylene (Total)	8.020	106	847820m	146.86	ug/L		
73) Styrene	8.421	104	471982	49.88	ug/L		97
74) Bromoform	8.598	173	96703	52.52	ug/L		97

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

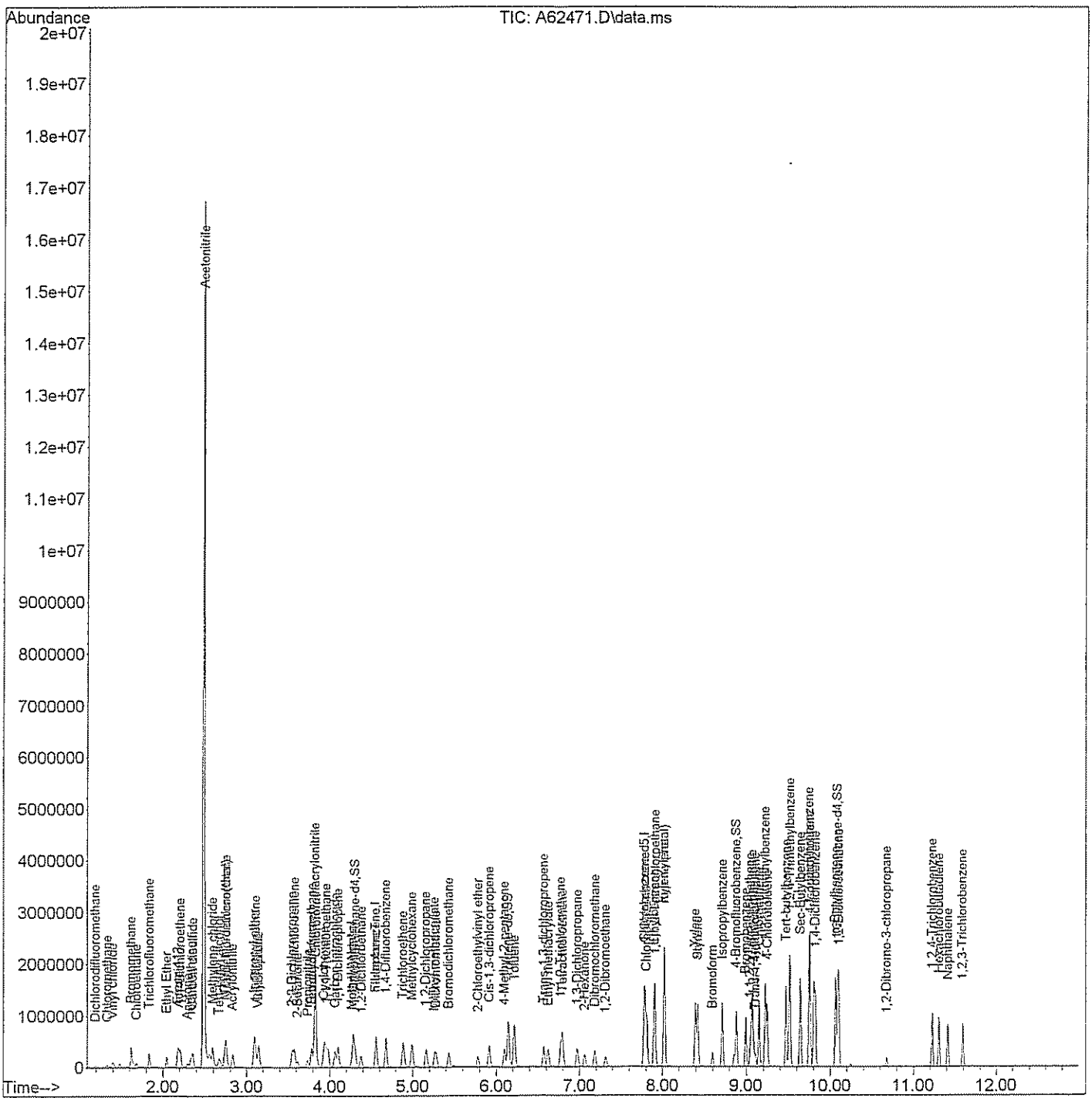
Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	617894	51.03	ug/L		97
77) Bromobenzene	8.994	156	186427	56.24	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	147279	45.24	ug/L		97
79) 1,2,3-Trichloropropane	9.085	110	46891	48.49	ug/L		96
80) n-Propylbenzene	9.069	91	818294	48.83	ug/L		95
81) Trans-1,4-dichloro-2-b...	9.106	53	32015	39.56	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	189413	53.29	ug/L		88
83) 4-Chlorotoluene	9.251	126	200148	54.25	ug/L		76
84) 1,3,5-Trimethylbenzene	9.224	105	609324	51.22	ug/L		91
85) Tert-butylbenzene	9.470	119	555328	53.72	ug/L		93
87) 1,2,4-Trimethylbenzene	9.518	105	646364	52.30	ug/L		91
88) Sec-Butylbenzene	9.641	105	837078	52.84	ug/L		94
89) 1,3-Dichlorobenzene	9.748	146	403865	58.06	ug/L		100
90) 4-Isopropyltoluene	9.759	119	775400	57.55	ug/L		96
91) 1,4-Dichlorobenzene	9.823	146	399412	57.22	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	373676	56.24	ug/L		100
94) n-Butylbenzene	10.058	91	655390	49.29	ug/L	#	89
95) 1,2-Dibromo-3-chloropr...	10.679	75	23968	42.99	ug/L	#	65
96) 1,2,4-Trichlorobenzene	11.225	180	228199	56.60	ug/L		98
97) Hexachlorobutadiene	11.305	225	109949	58.56	ug/L		97
98) Naphthalene	11.412	128	481680	50.13	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	188085	55.72	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

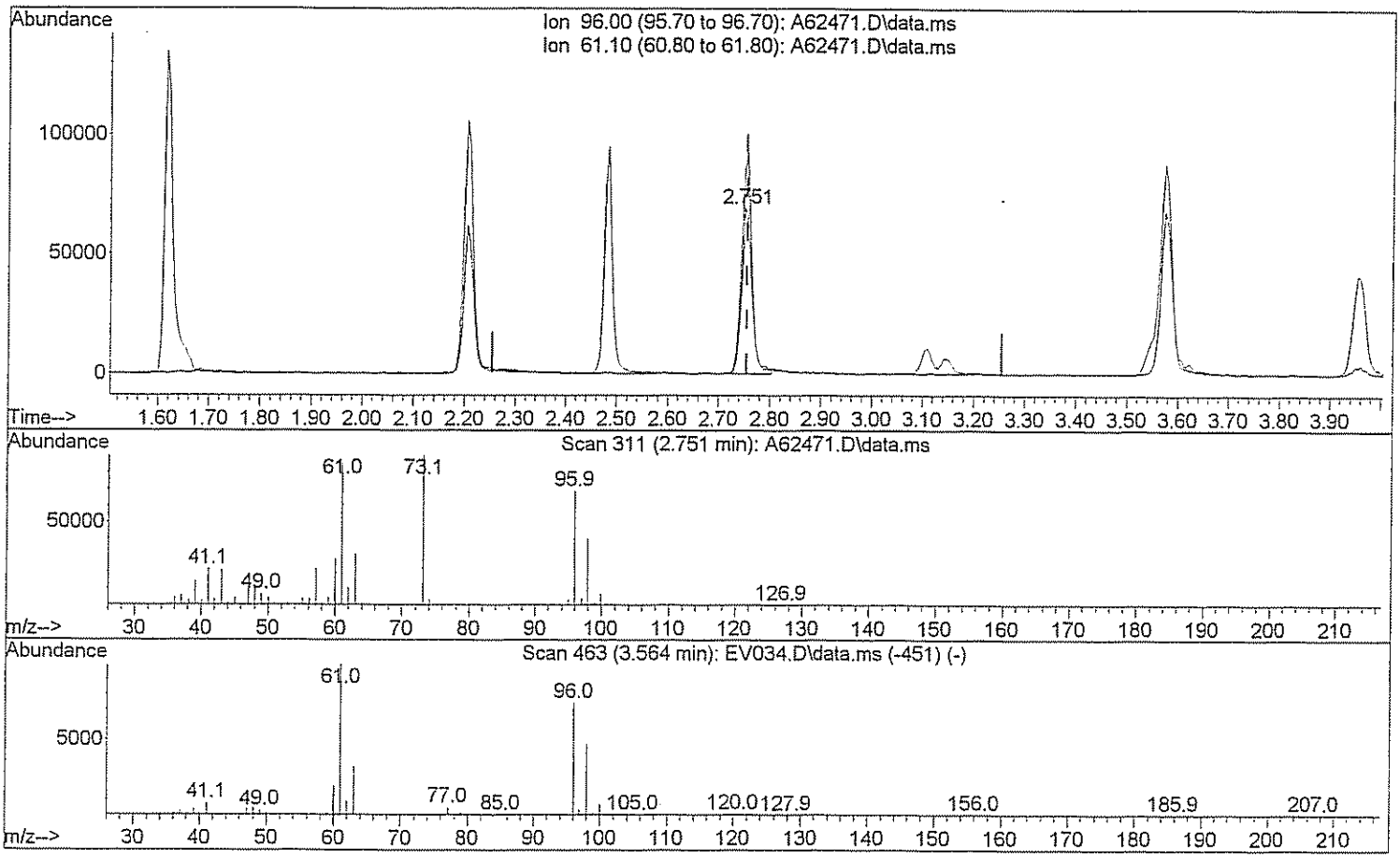
Quant Time: Mar 24 13:18:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 09:42:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62471.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 37.86 ug/L

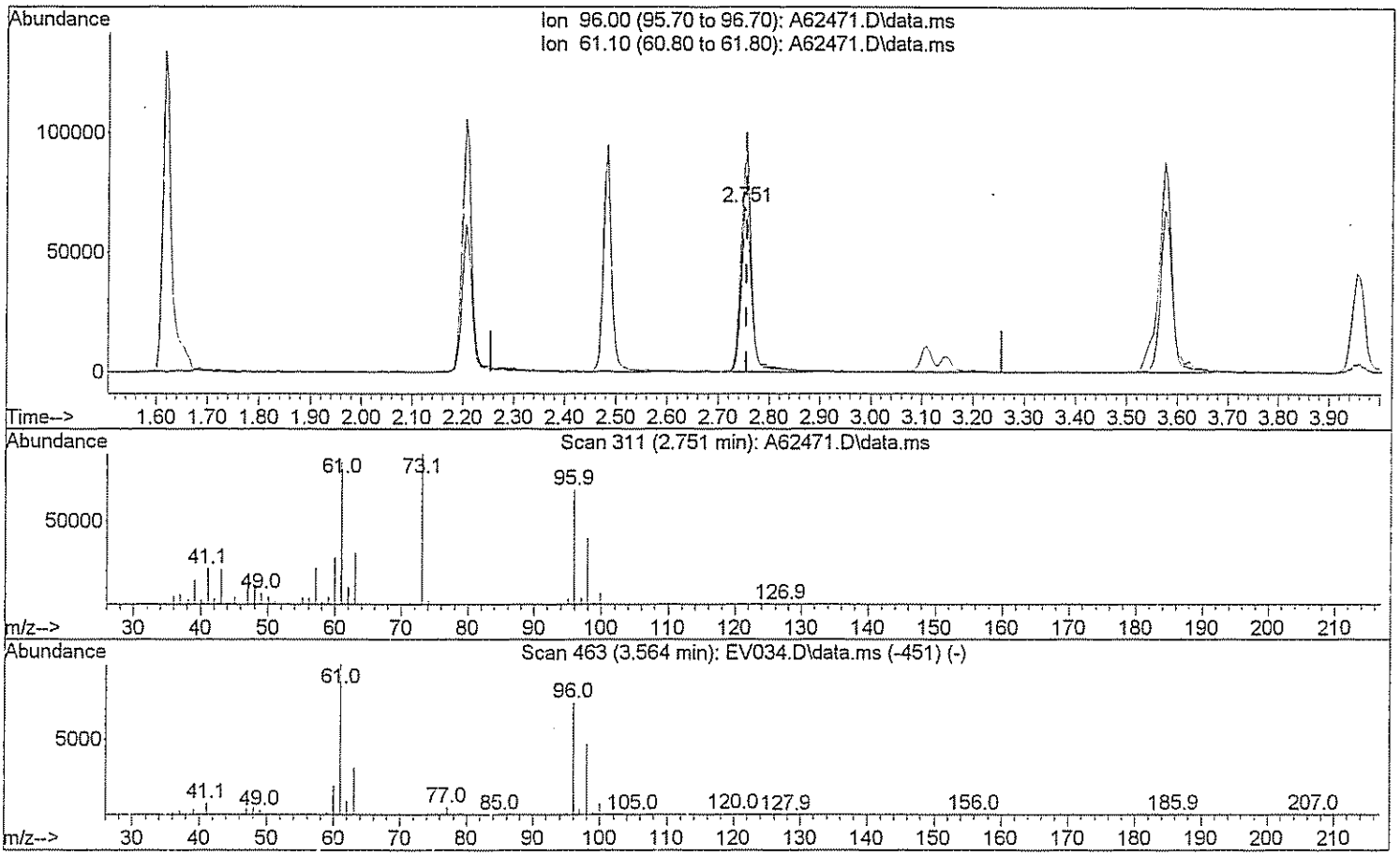
response 95067

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 09:42:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62471.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 84.35 ug/L m SN 3/24/09

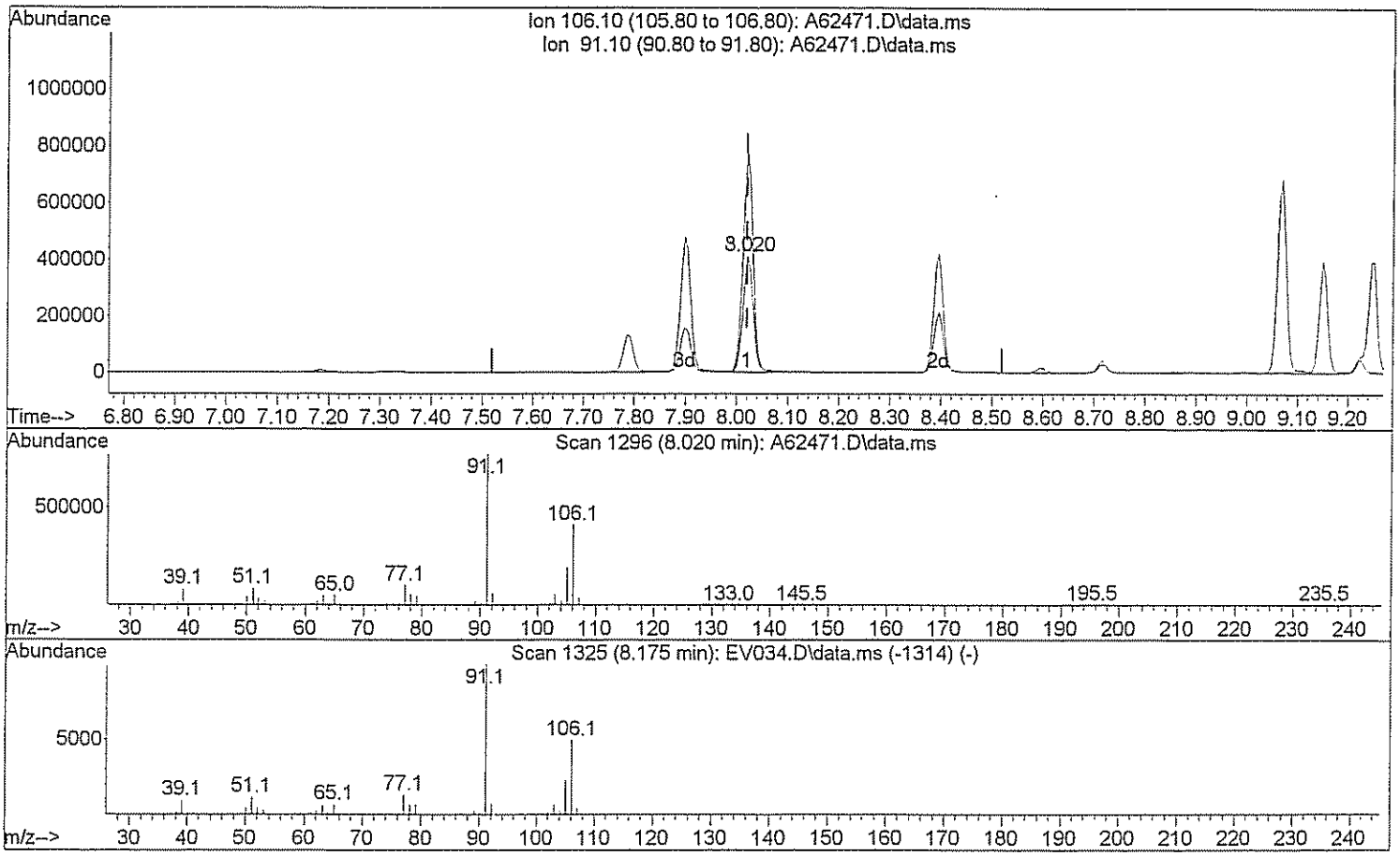
response 211817

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	62.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 09:42:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62471.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 98.65 ug/L

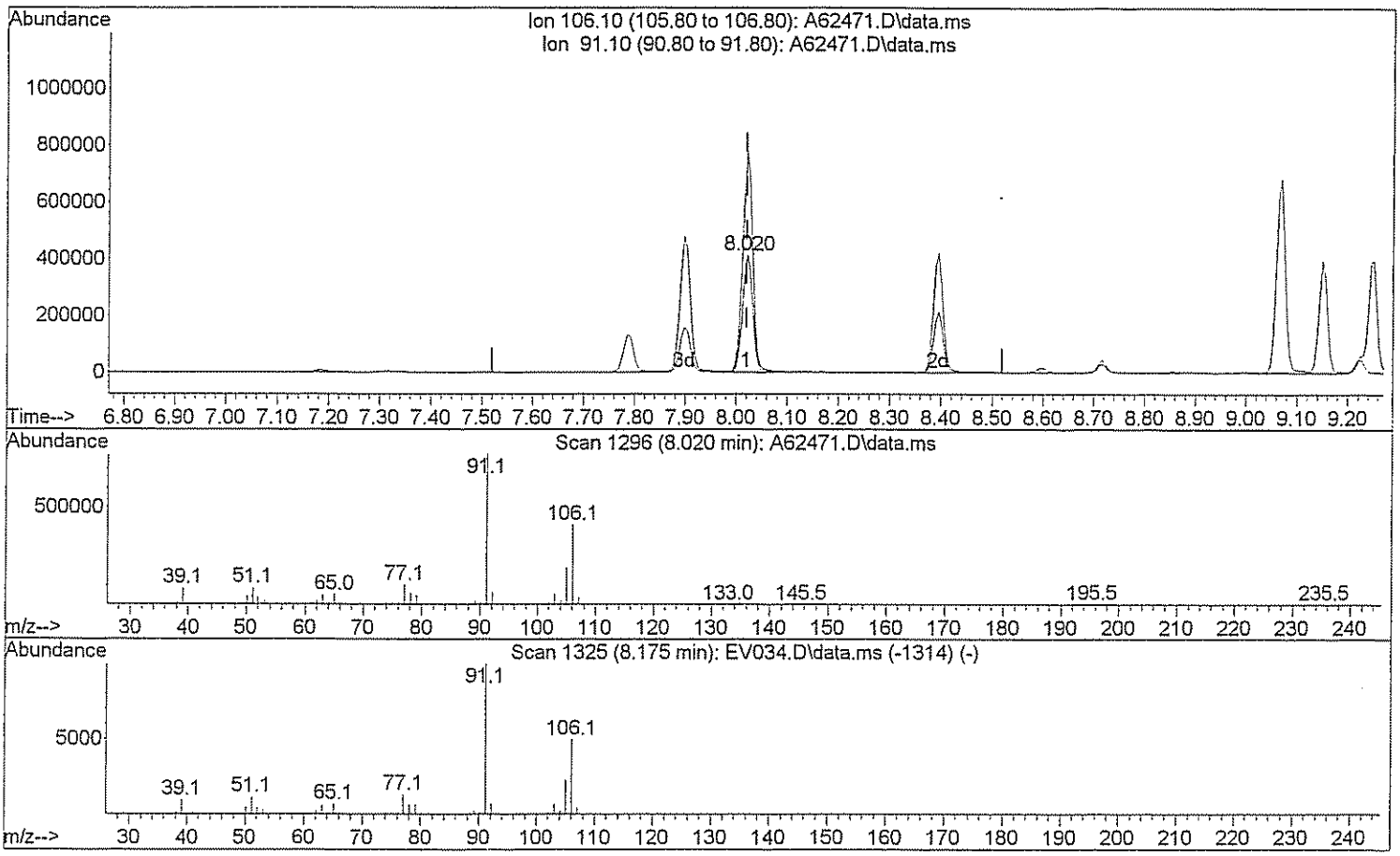
response 569519

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	187.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62471.D
Acq On : 24 Mar 2009 9:22
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 09:42:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62471.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 146.86 ug/L m JW 3/24/09

response 847820

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.86#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	82	0.00
2		Dichlorodifluoromethane	0.113	0.112	0.9	107	0.01
3		Chloromethane	0.142	0.199	-40.1#	154#	0.00
4		Vinyl chloride	0.183	0.209	-14.2	102	0.00
5		Bromomethane	0.064	0.102	-59.4#	153#	0.00
6		Chloroethane	0.142	0.143	-0.7	100	0.00
7		Trichlorofluoromethane	0.239	0.324	-35.6#	122	0.01
8		Ethyl Ether	0.186	0.163	12.4	90	0.01
9		Freon 113	0.170	0.184	-8.2	116	0.00
10		Acrolein	0.043	0.030	30.2#	81	0.01
11		Tert-Butyl alcohol	0.020	0.014	30.0#	99	0.00
12		1,1-Dichloroethene	0.184	0.164	10.9	96	0.00
13		Iodomethane	0.164	0.325	-98.2#	147	0.00
14		Acetonitrile	0.096	0.134	-39.6#	124	0.00
15		Methylene chloride	0.257	0.198	23.0	89	0.00
16		Trans-1,2-dichloroethene	0.200	0.186	7.0	92	0.00
17		Isopropyl ether	0.805	0.726	9.8	89	0.01
18		1,1-Dichloroethane	0.356	0.381	-7.0	100	0.00
19		Acetone	0.092	0.062	32.6#	90	0.01
20		Methyl Acetate	0.209	0.153	26.8#	83	0.00
21		MTBE	0.579	0.608	-5.0	103	0.00
22		Carbon disulfide	0.764	0.395	48.3#	69	0.01
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.063	16.0	97	0.00
25		Chloroprene	0.341	0.290	15.0	88	0.00
26	T	n-Heptane	0.174	0.007	96.0#	4#	0.12
27		2,2-Dichloropropane	0.291	0.302	-3.8	93	0.00
28		Cis-1,2-dichloroethene	0.238	0.217	8.8	86	0.00
29		1,2-dichloroethene(total)	0.217	0.204	6.0	88	-0.82#
30		Propionitrile	0.032	0.024	25.0	75	0.00
31		Bromochloromethane	0.115	0.132	-14.8	103	0.00
32		Tetrahydrofuran	0.059	0.049	16.9	79	0.00
33		Chloroform	0.403	0.410	-1.7	97	0.00
34		Cyclohexane	0.398	0.300	24.6	77	0.00
35		1,1,1-Trichloroethane	0.307	0.333	-8.5	91	0.00
36		Carbon tetrachloride	0.232	0.304	-31.0#	95	0.00
37		Methylcyclohexane	0.342	0.295	13.7	74	0.00
38		Isobutyl Alcohol	0.016	0.008	50.0#	44#	-0.18

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.289	-4.7	89	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
41		2-Butanone	0.191	0.130	31.9#	83	0.00
42		1,1-Dichloropropene	0.326	0.288	11.7	79	0.00
43		Vinyl Acetate	0.357	0.258	27.7#	77	0.00
44		Benzene	1.078	0.856	20.6	73	0.00
45		1,2-Dichloroethane	0.340	0.307	9.7	81	0.00
46		Trichloroethene	0.276	0.230	16.7	77	0.00
47		1,2-Dichloropropane	0.280	0.224	20.0	68	0.00
48		Methyl methacrylate	0.221	0.152	31.2#	68	0.00
49		Dibromomethane	0.170	0.154	9.4	78	0.00
50		Bromodichloromethane	0.361	0.303	16.1	73	0.00
51		2-Chloroethylvinyl ether	0.188	0.134	28.7#	63	0.00
52		Cis-1,3-dichloropropene	0.408	0.355	13.0	69	0.01
53	SS	Toluene-d8	1.110	1.231	-10.9	131	0.00
54		Toluene	0.589	0.676	-14.8	118	0.00
55		Trans-1,3-dichloropropene	0.372	0.378	-1.6	109	0.00
56		Ethyl methacrylate	0.349	0.340	2.6	109	0.00
57		1,1,2-Trichloroethane	0.208	0.208	0.0	114	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	141	0.00
59		4-Methyl-2-pentanone	0.350	0.220	37.1#	95	0.00
60		2-Hexanone	0.240	0.170	29.2#	102	0.00
61		Tetrachloroethene	0.264	0.285	-8.0	143	0.00
62		1,3-Dichloropropane	0.405	0.356	12.1	117	0.00
63		Dibromochloromethane	0.278	0.277	0.4	129	0.02
64		1,2-Dibromoethane	0.251	0.227	9.6	117	0.00
65		1-Chlorohexane	0.415	0.325	21.7	115	0.00
66		Chlorobenzene	0.821	0.782	4.8	127	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.317	-3.9	135	0.00
68		Ethylbenzene	1.403	1.217	13.3	119	0.00
69		m,p-Xylene	0.579	0.523	9.7	124	0.00
70		o-Xylene	0.571	0.526	7.9	122	0.00
71		Xylene (Total)	0.573	0.526	8.2	123	0.00
72		Styrene	0.959	0.874	8.9	121	0.00
73		Bromoform	0.187	0.188	-0.5	125	0.00
74		Isopropylbenzene	1.268	1.211	4.5	129	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.480	3.2	135	0.00
76		Bromobenzene	0.362	0.378	-4.4	141	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.321	17.1	116	0.00
78		1,2,3-Trichloropropane	0.116	0.097	16.4	120	0.00
79		n-Propylbenzene	1.718	1.577	8.2	121	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.097	11.8	118	0.00
81		2-Chlorotoluene	0.368	0.386	-4.9	136	0.00
82		4-Chlorotoluene	0.392	0.396	-1.0	134	0.00
83		1,3,5-Trimethylbenzene	1.331	1.259	5.4	127	0.00
84		Tert-butylbenzene	1.188	1.194	-0.5	136	0.00
85		Pentachloroethane	0.000	0.000	0.0	138	0.00
86		1,2,4-Trimethylbenzene	1.416	1.300	8.2	126	0.00
87		Sec-Butylbenzene	1.840	1.746	5.1	128	0.00
88		1,3-Dichlorobenzene	0.805	0.851	-5.7	147	0.00
89		4-Isopropyltoluene	1.579	1.626	-3.0	137	0.00
90		1,4-Dichlorobenzene	0.804	0.844	-5.0	142	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.630	-16.5	163#	0.00
92		1,2-Dichlorobenzene	0.773	0.818	-5.8	146	0.00
93		n-Butylbenzene	1.496	1.375	8.1	125	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.059	23.4	104	0.00
95		1,2,4-Trichlorobenzene	0.529	0.547	-3.4	148	0.00
96		Hexachlorobutadiene	0.235	0.237	-0.9	160#	0.00
97		Naphthalene	1.447	1.338	7.5	131	0.00
98		1,2,3-Trichlorobenzene	0.473	0.474	-0.2	142	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	402043	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	359942	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.779	117	419275	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	116345	52.38	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.76%				
53) Toluene-d8	6.148	98	443257	55.48	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 110.96%				
75) 4-Bromofluorobenzene	8.881	95	201454	48.42	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.84%				
91) 1,2-Dichlorobenzene-d4	10.085	152	264203	58.21	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.42%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	45228	49.72	ug/L		96
3) Chloromethane	1.354	50	79945	70.17	ug/L		100
4) Vinyl chloride	1.419	62	83916	48.62	ug/L		99
5) Bromomethane	1.654	94	40868	79.18	ug/L		90
6) Chloroethane	1.723	64	57458	50.36	ug/L		96
7) Trichlorofluoromethane	1.868	101	130425	67.74	ug/L		97
8) Ethyl Ether	2.071	59	65584	43.93	ug/L		92
9) Freon 113	2.205	101	74040	54.28	ug/L		92
10) Acrolein	2.216	56	60259	246.32	ug/L	#	74
11) Tert-Butyl alcohol	2.686	59	114762	1319.25	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	65983	44.62	ug/L		90
13) Iodomethane	2.355	142	130568	98.83	ug/L		95
14) Acetonitrile	2.505	40	538034	573.72	ug/L	#	1
15) Methylene chloride	2.612	84	79590	44.60	ug/L		99
16) Trans-1,2-dichloroethene	2.772	96	74823	46.53	ug/L		85
17) Isopropyl ether	3.109	45	291815	45.11	ug/L		95
18) 1,1-Dichloroethane	3.125	63	153212	53.51	ug/L		96
19) Acetone	2.323	43	49852	116.15	ug/L		90
20) Methyl Acetate	4.265	43	61470	64.87	ug/L	#	100
21) MTBE	2.756	73	244437	52.53	ug/L		100
22) Carbon disulfide	2.382	76	158828	35.60	ug/L		100
24) Acrylonitrile	2.852	53	127533	284.37	ug/L		98
25) Chloroprene	3.163	53	116753	42.63	ug/L		90
26) n-Heptane	4.570	71	2685	1.92	ug/L	#	1
27) 2,2-Dichloropropane	3.564	77	121482	51.95	ug/L	#	82
28) Cis-1,2-dichloroethene	3.591	96	87125	45.56	ug/L		93

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	2.772	96	164103m	93.99 ug/L	
30) Propionitrile	3.746	54	97250	382.17 ug/L	96
31) Bromochloromethane	3.799	128	52922	56.99 ug/L #	66
32) Tetrahydrofuran	3.623	72	19510	40.83 ug/L #	1
33) Chloroform	3.847	83	164695	50.78 ug/L	96
34) Cyclohexane	3.949	56	120447	41.98 ug/L	89
35) 1,1,1-Trichloroethane	3.970	97	133932	54.19 ug/L	98
36) Carbon tetrachloride	4.077	117	122064	53.62 ug/L	95
37) Methylcyclohexane	5.003	83	118708	43.20 ug/L	90
38) Isobutyl Alcohol	4.265	43	61470	480.84 ug/L	99
41) 2-Butanone	3.628	43	93683	95.46 ug/L	93
42) 1,1-Dichloropropene	4.109	75	103517	44.14 ug/L	96
43) Vinyl Acetate	3.152	43	92801	36.13 ug/L	96
44) Benzene	4.291	78	308280	39.73 ug/L	100
45) 1,2-Dichloroethane	4.382	62	110327	45.01 ug/L	90
46) Trichloroethene	4.891	95	82857	41.65 ug/L #	74
47) 1,2-Dichloropropane	5.169	63	80639	39.96 ug/L	97
48) Methyl methacrylate	5.270	69	54602	41.34 ug/L	98
49) Dibromomethane	5.286	93	55332	45.15 ug/L	96
50) Bromodichloromethane	5.436	83	109031	42.01 ug/L #	99
51) 2-Chloroethylvinyl ether	5.784	63	192296	142.08 ug/L	95
52) Cis-1,3-dichloropropene	5.923	75	127640	38.25 ug/L	96
54) Toluene	6.223	92	243376	57.43 ug/L	99
55) Trans-1,3-dichloropropene	6.576	75	136188	50.79 ug/L	96
56) Ethyl methacrylate	6.624	69	122273	48.71 ug/L	99
57) 1,1,2-Trichloroethane	6.774	83	74700	49.87 ug/L	92
59) 4-Methyl-2-pentanone	6.100	43	184384	62.89 ug/L	95
60) 2-Hexanone	7.068	43	142584	70.94 ug/L	96
61) Tetrachloroethene	6.800	166	119676	54.02 ug/L	98
62) 1,3-Dichloropropane	6.977	76	149222	43.92 ug/L	89
63) Dibromochloromethane	7.191	129	116341	49.87 ug/L	96
64) 1,2-Dibromoethane	7.319	107	95090	45.09 ug/L	100
65) 1-Chlorohexane	7.785	91	136070	39.09 ug/L	93
66) Chlorobenzene	7.811	112	327714	47.59 ug/L	87
67) 1,1,1,2-Tetrachloroethane	7.908	131	132758	46.75 ug/L	96
68) Ethylbenzene	7.902	91	510376	43.40 ug/L	95
69) m,p-Xylene	8.020	106	438763	90.34 ug/L	86
70) o-Xylene	8.395	106	220564	46.07 ug/L	88
71) Xylene (Total)	8.020	106	662178m	137.89 ug/L	
72) Styrene	8.421	104	366460	45.55 ug/L	97
73) Bromoform	8.598	173	78904	42.65 ug/L	97
74) Isopropylbenzene	8.716	105	507582	47.73 ug/L	97

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

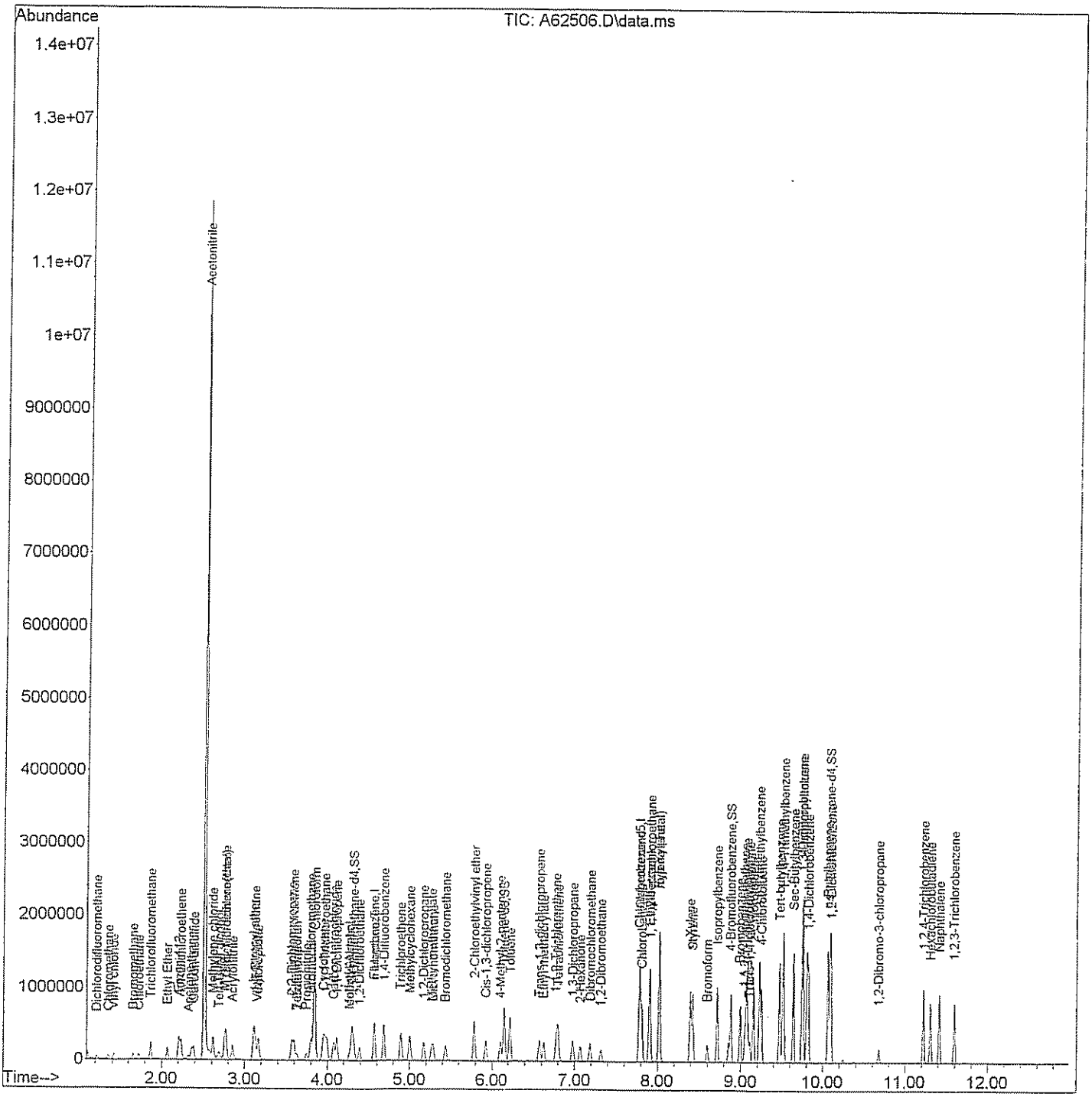
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) Bromobenzene	8.994	156	158332	52.10	ug/L		97
77) 1,1,2,2-Tetrachloroethane	9.047	83	134681	41.45	ug/L		96
78) 1,2,3-Trichloropropane	9.085	110	40704	41.98	ug/L		99
79) n-Propylbenzene	9.069	91	661360	45.91	ug/L		94
80) Trans-1,4-dichloro-2-b...	9.106	53	40820	44.22	ug/L	#	1
81) 2-Chlorotoluene	9.149	126	161947	52.42	ug/L		86
82) 4-Chlorotoluene	9.251	126	165837	50.48	ug/L		76
83) 1,3,5-Trimethylbenzene	9.224	105	527685	47.29	ug/L		92
84) Tert-butylbenzene	9.470	119	500738	50.24	ug/L		94
86) 1,2,4-Trimethylbenzene	9.518	105	545171	45.93	ug/L		89
87) Sec-Butylbenzene	9.641	105	732056	47.44	ug/L		95
88) 1,3-Dichlorobenzene	9.748	146	356912	52.87	ug/L		100
89) 4-Isopropyltoluene	9.753	119	681575	51.47	ug/L		94
90) 1,4-Dichlorobenzene	9.823	146	353768	52.49	ug/L		98
92) 1,2-Dichlorobenzene	10.101	146	343067	52.89	ug/L		97
93) n-Butylbenzene	10.058	91	576615	45.96	ug/L	#	88
94) 1,2-Dibromo-3-chloropr...	10.679	75	24599	38.34	ug/L	#	54
95) 1,2,4-Trichlorobenzene	11.225	180	229233	51.67	ug/L		98
96) Hexachlorobutadiene	11.305	225	99299	50.35	ug/L		97
97) Naphthalene	11.412	128	560804	46.22	ug/L		100
98) 1,2,3-Trichlorobenzene	11.594	180	198750	50.12	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

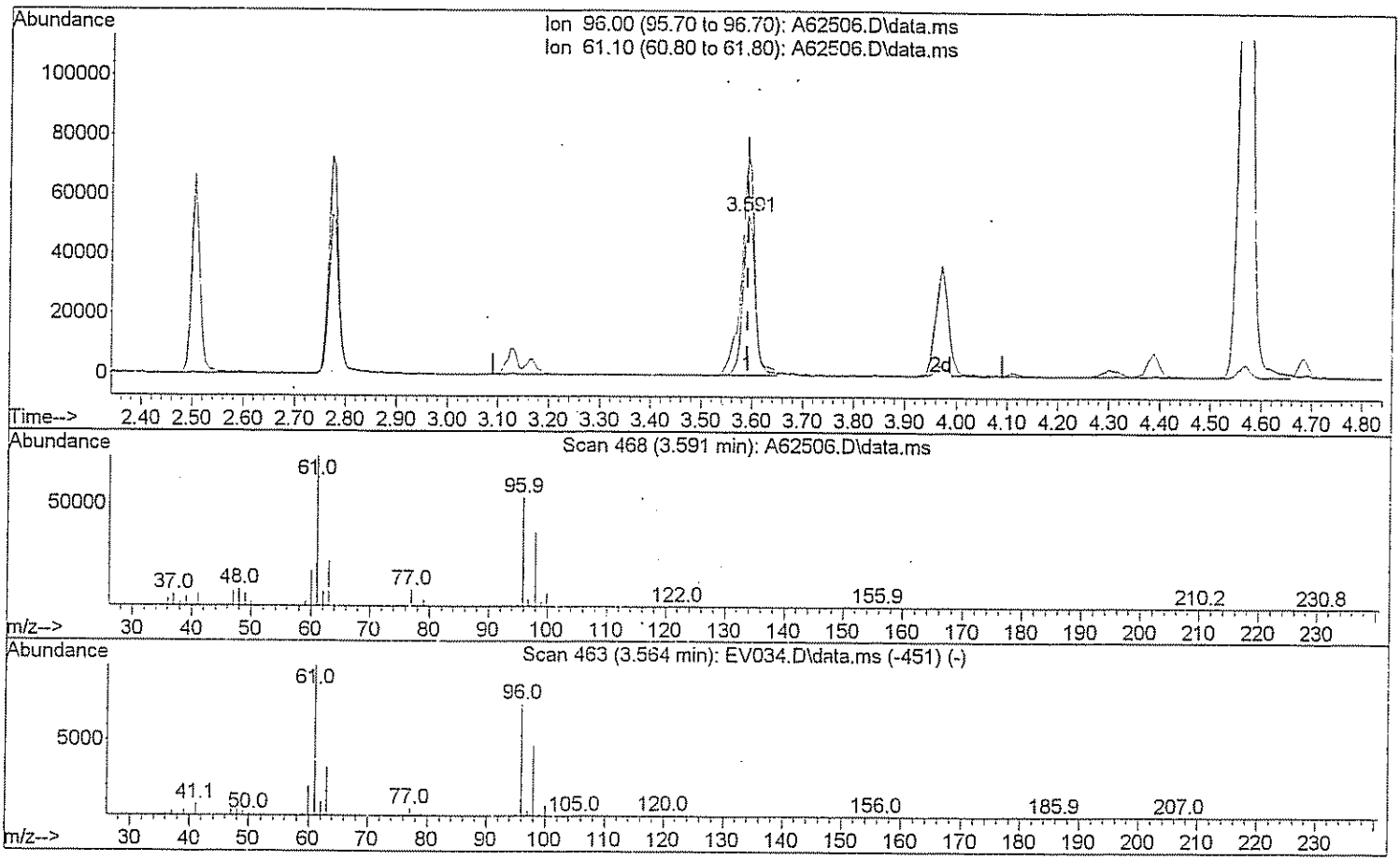
Quant Time: Mar 25 14:42:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62506.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (-0.000) 49.90 ug/L

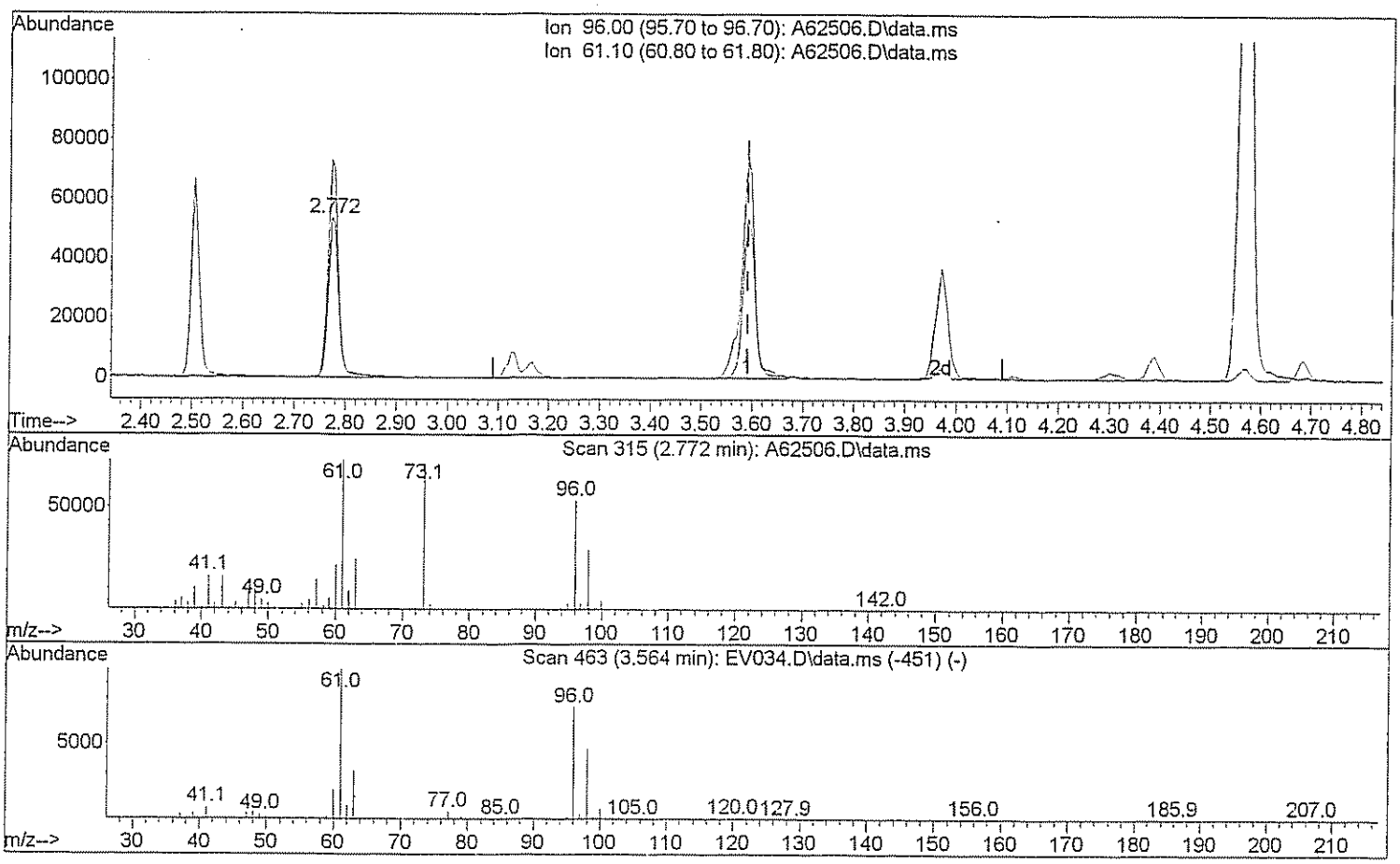
response 87125

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	152.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62506.D\data.ms

(29) 1,2-dichloroethene(total)

2.772min (-0.819) 93.99 ug/L m 3/25/09

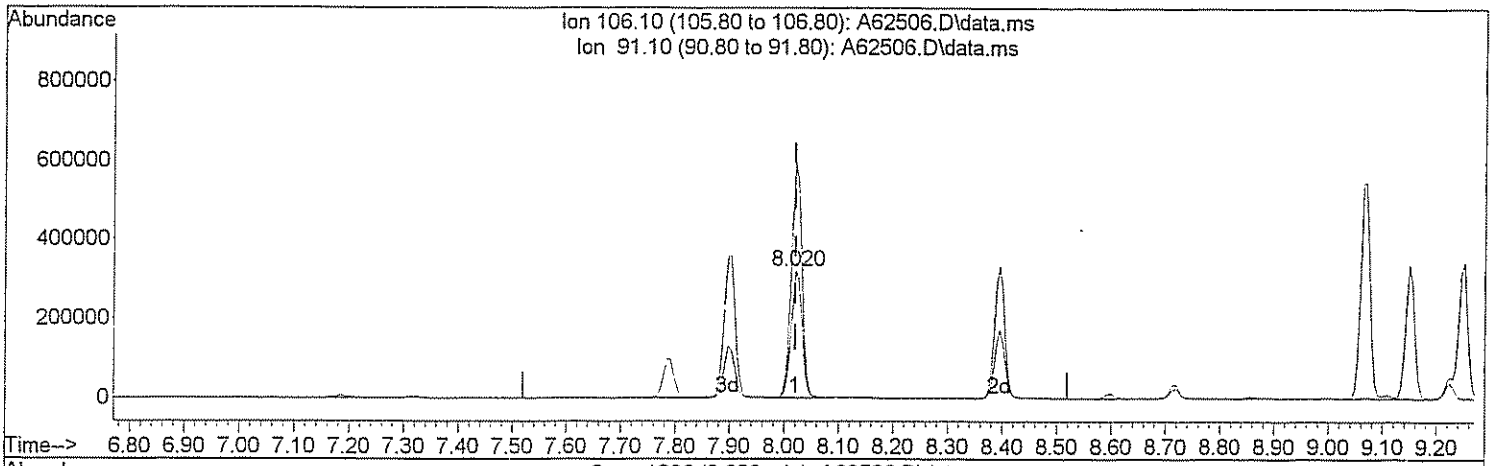
response 164103

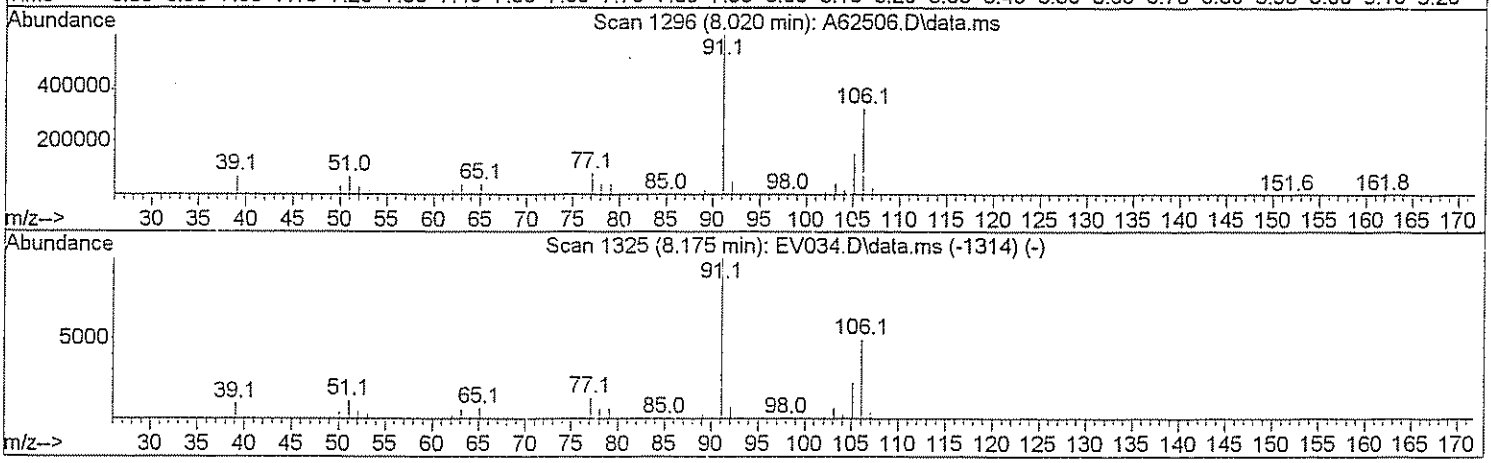
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	80.92#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration





TIC: A62506.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 91.36 ug/L

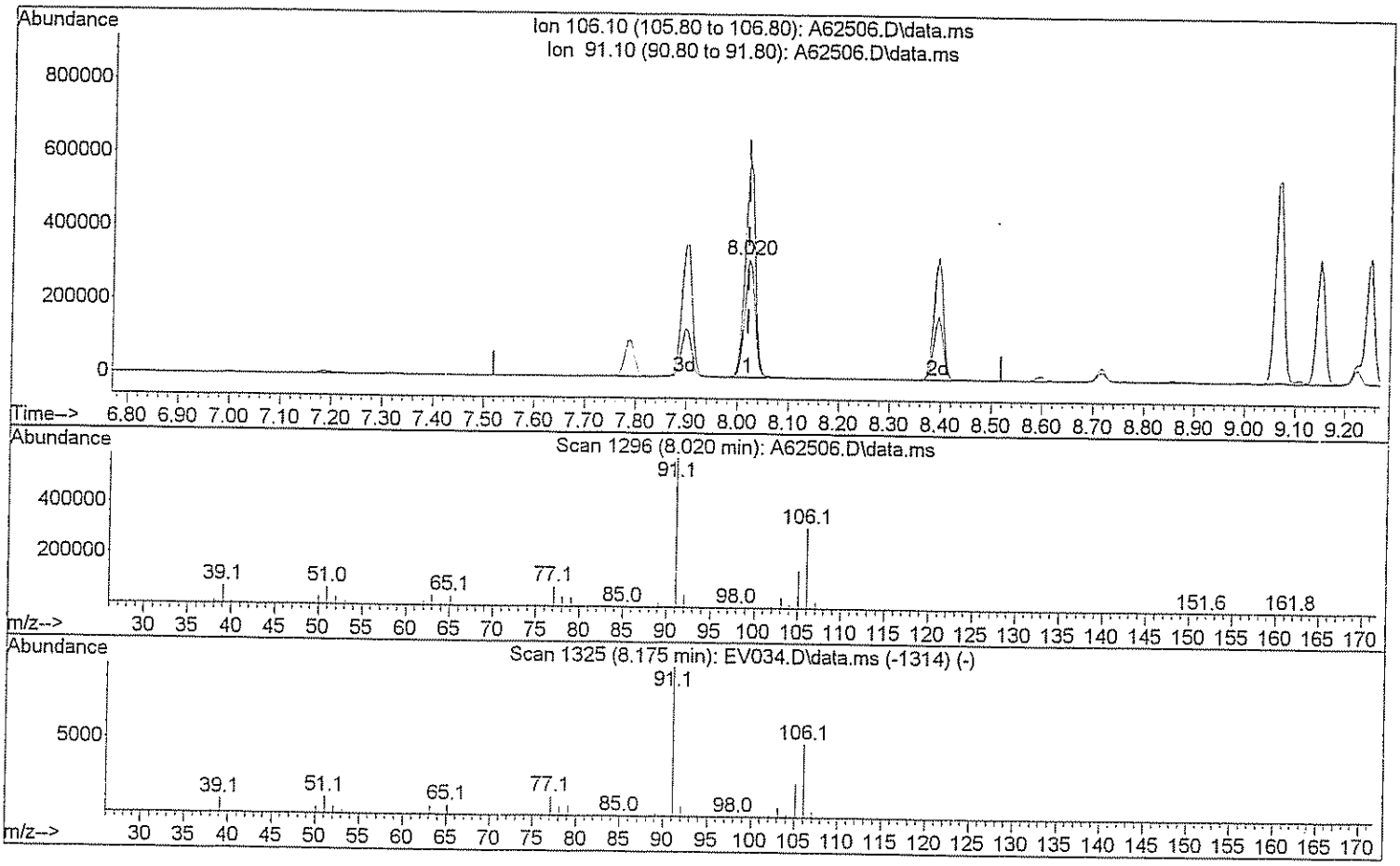
response 438763

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	185.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62506.D
Acq On : 25 Mar 2009 10:56
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 25 14:42:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62506.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 137.89 ug/L m DM 3/25/09

response 662178

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	123.17#
0.00	0.00	0.00
0.00	0.00	0.00

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

6. Injection Logsheet

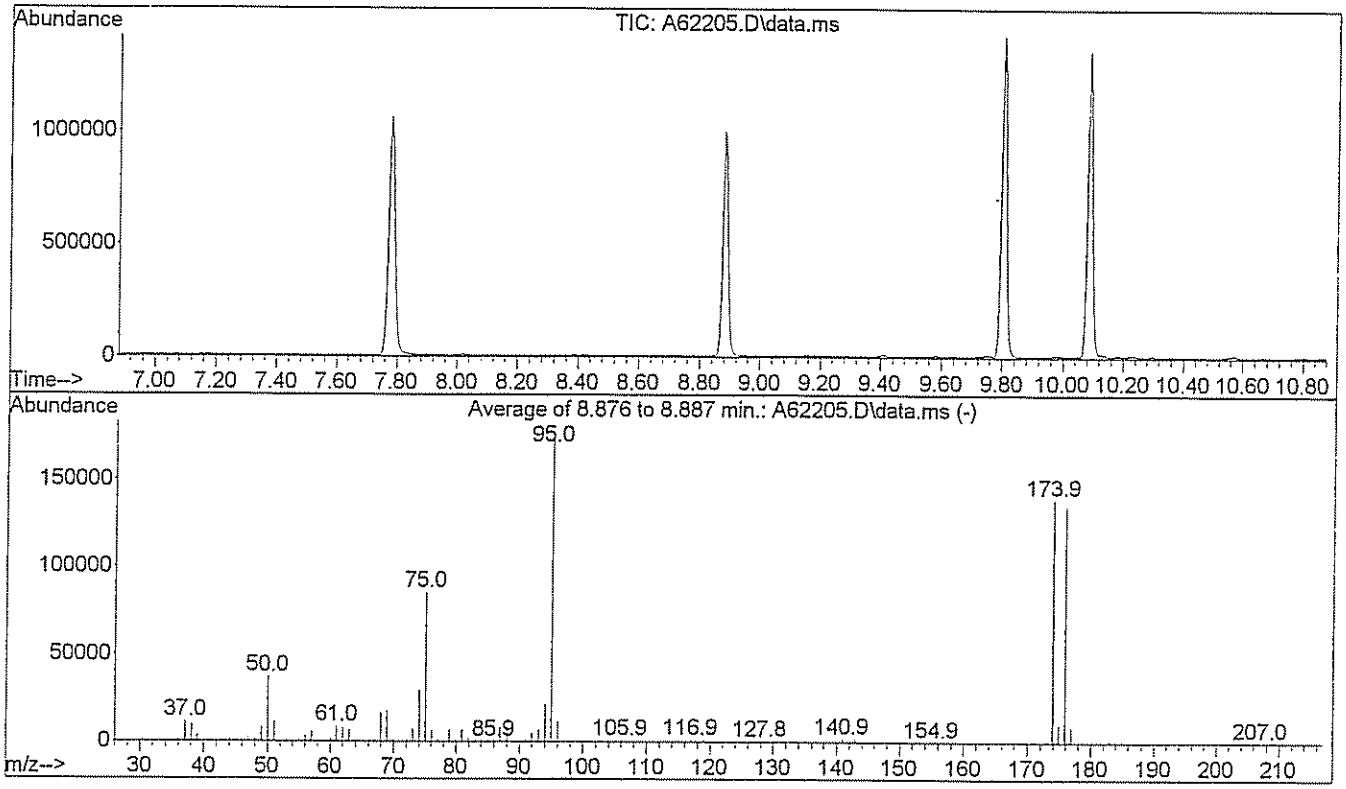
7. Control Charts (where applicable)

GPL Laboratories

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62205.D
Acq On : 10 Mar 2009 7:35
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 07:32:19 2009



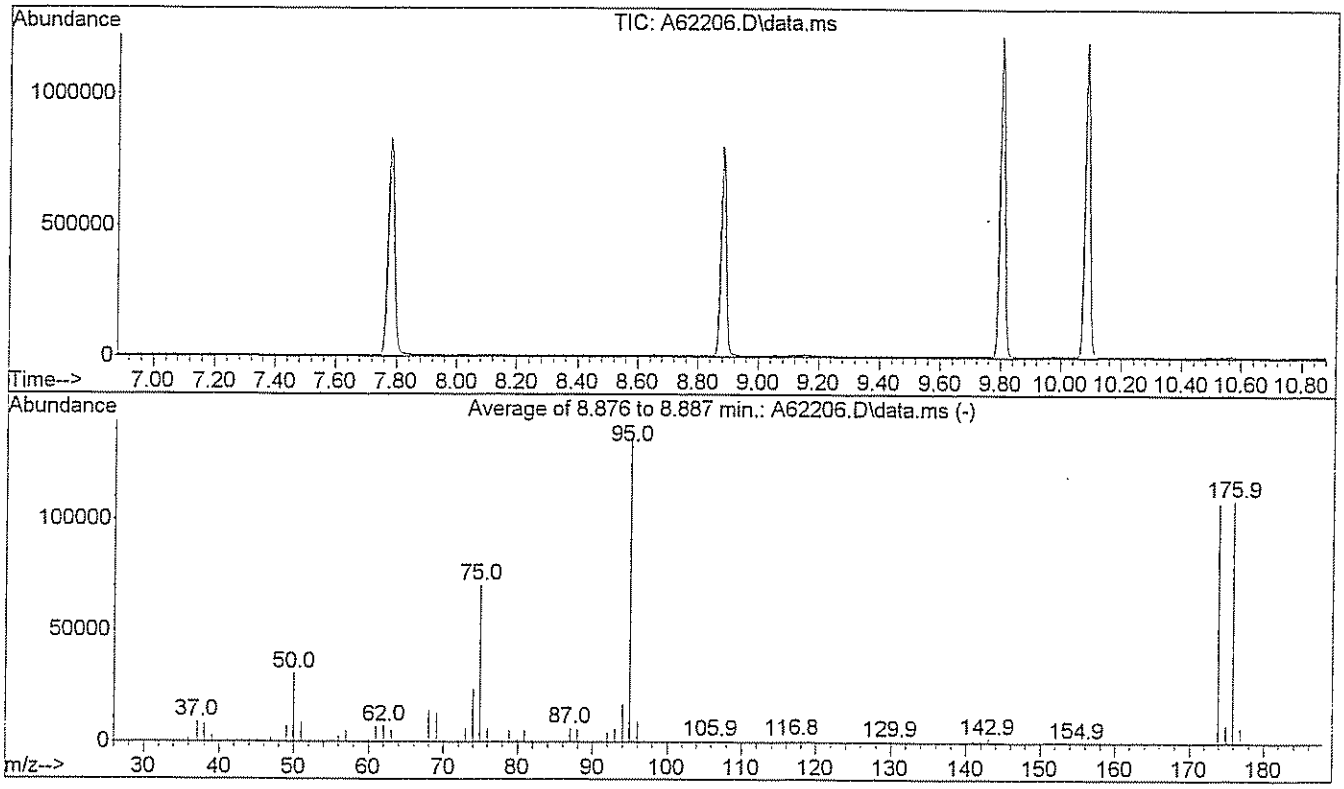
AutoFind: Scans 1456, 1457, 1458; Background Corrected with Scan 1448

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	36987	PASS
75	95	30	60	48.8	85267	PASS
95	95	100	100	100.0	174571	PASS
96	95	5	9	6.6	11522	PASS
173	174	0.00	2	0.8	1093	PASS
174	95	50	100	79.6	139005	PASS
175	174	5	9	7.4	10350	PASS
176	174	95	100	97.3	135299	PASS
177	176	5	9	6.5	8791	PASS

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62206.D
Acq On : 10 Mar 2009 7:55
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 51 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Title : 8260
Last Update : Tue Mar 10 15:42:35 2009



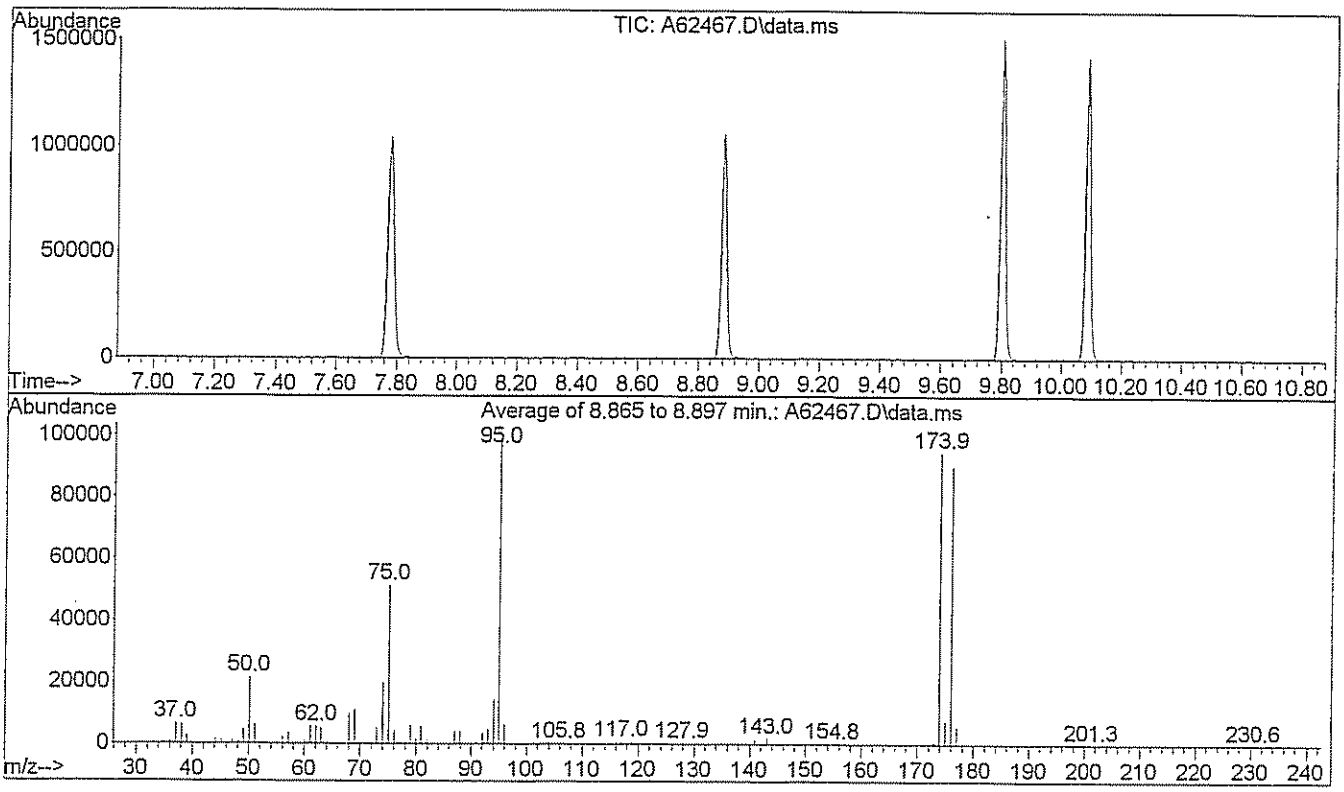
Spectrum Information: Average of 8.876 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	30827	PASS
75	95	30	60	51.3	70403	PASS
95	95	100	100	100.0	137192	PASS
96	95	5	9	6.7	9147	PASS
173	174	0.00	2	1.1	1158	PASS
174	95	50	100	78.5	107739	PASS
175	174	5	9	7.5	8069	PASS
176	174	95	101	100.8	108616	PASS
177	176	5	9	6.6	7206	PASS

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62467.D
Acq On : 24 Mar 2009 7:34
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



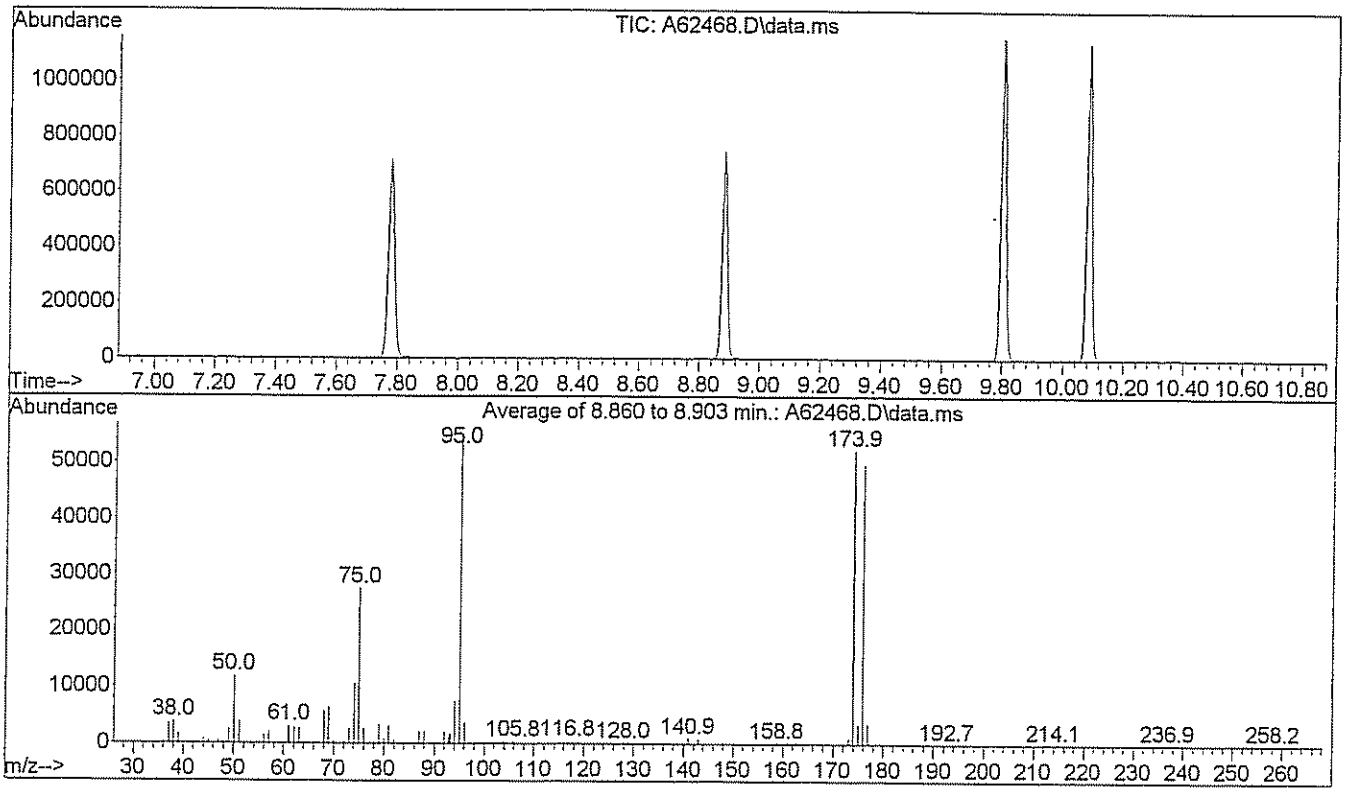
Spectrum Information: Average of 8.865 to 8.897 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	21465	PASS
75	95	30	60	51.9	51406	PASS
95	95	100	100	100.0	98997	PASS
96	95	5	9	6.3	6263	PASS
173	174	0.00	2	0.8	761	PASS
174	95	50	100	95.6	94662	PASS
175	174	5	9	7.9	7484	PASS
176	174	95	100	95.1	90039	PASS
177	176	5	9	6.4	5759	PASS

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62468.D
Acq On : 24 Mar 2009 7:55
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 51 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009



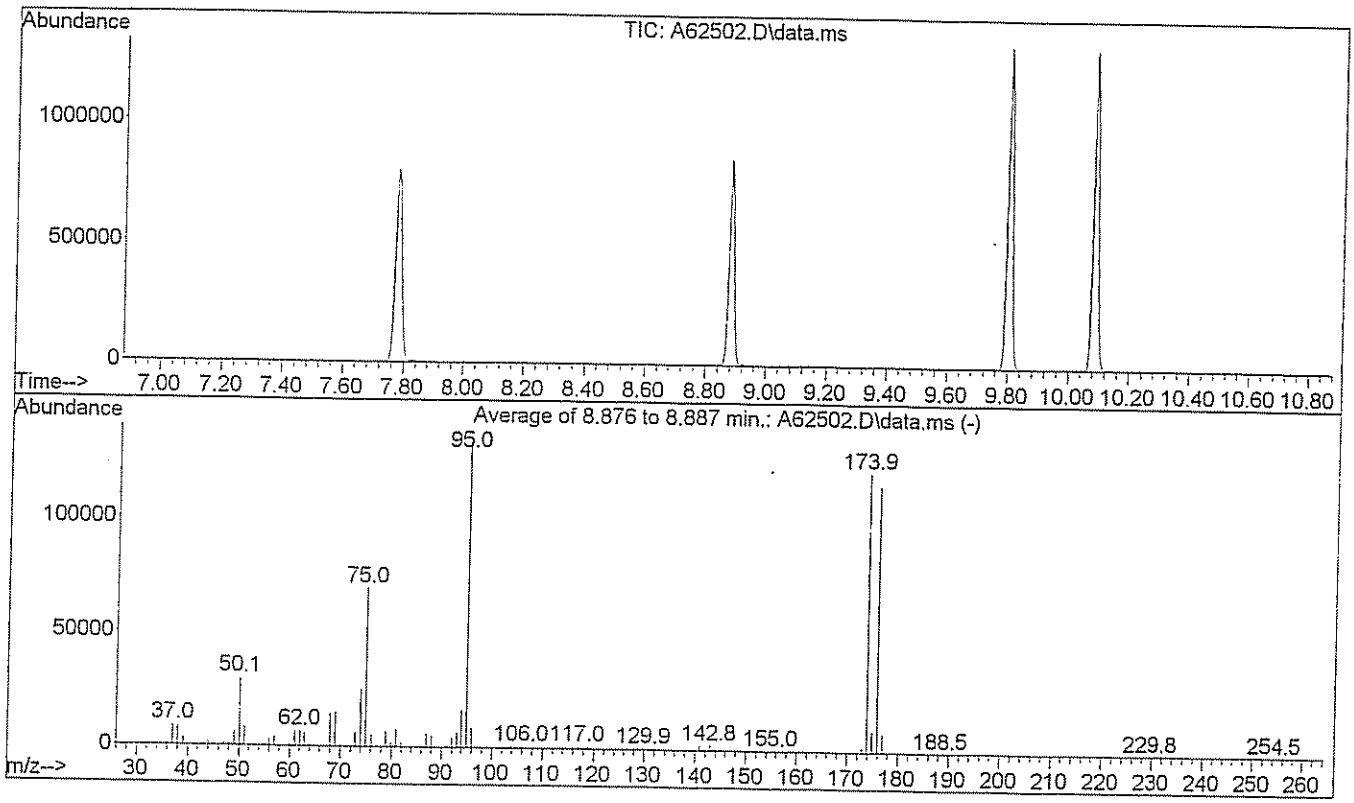
Spectrum Information: Average of 8.860 to 8.903 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	11862	PASS
75	95	30	60	50.6	27449	PASS
95	95	100	100	100.0	54222	PASS
96	95	5	9	6.8	3668	PASS
173	174	0.00	2	1.9	994	PASS
174	95	50	100	96.3	52207	PASS
175	174	5	9	6.7	3503	PASS
176	174	95	101	95.3	49735	PASS
177	176	5	9	7.1	3548	PASS

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62502.D
Acq On : 25 Mar 2009 8:54
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 51 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



Spectrum Information: Average of 8.876 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	29973	PASS
75	95	30	60	52.2	69941	PASS
95	95	100	100	100.0	133859	PASS
96	95	5	9	6.5	8723	PASS
173	174	0.00	2	1.8	2160	PASS
174	95	50	100	91.4	122323	PASS
175	174	5	9	7.6	9279	PASS
176	174	95	100	95.4	116704	PASS
177	176	5	9	7.0	8155	PASS

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108792
Sample Volume :	5	Lab File ID :	A62476.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108792
Sample Volume :	5	Lab File ID :	A62476.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108792
Sample Volume :	5	Lab File ID :	A62476.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62476.D
Acq On : 24 Mar 2009 11:26
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 24 17:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	299283	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	268879	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	307270	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	82965	50.18	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.36%			
53) Toluene-d8	6.148	98	276877	46.39	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 92.78%			
75) 4-Bromofluorobenzene	8.881	95	146033	47.89	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.78%			
91) 1,2-Dichlorobenzene-d4	10.085	152	180665	54.31	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 108.62%			

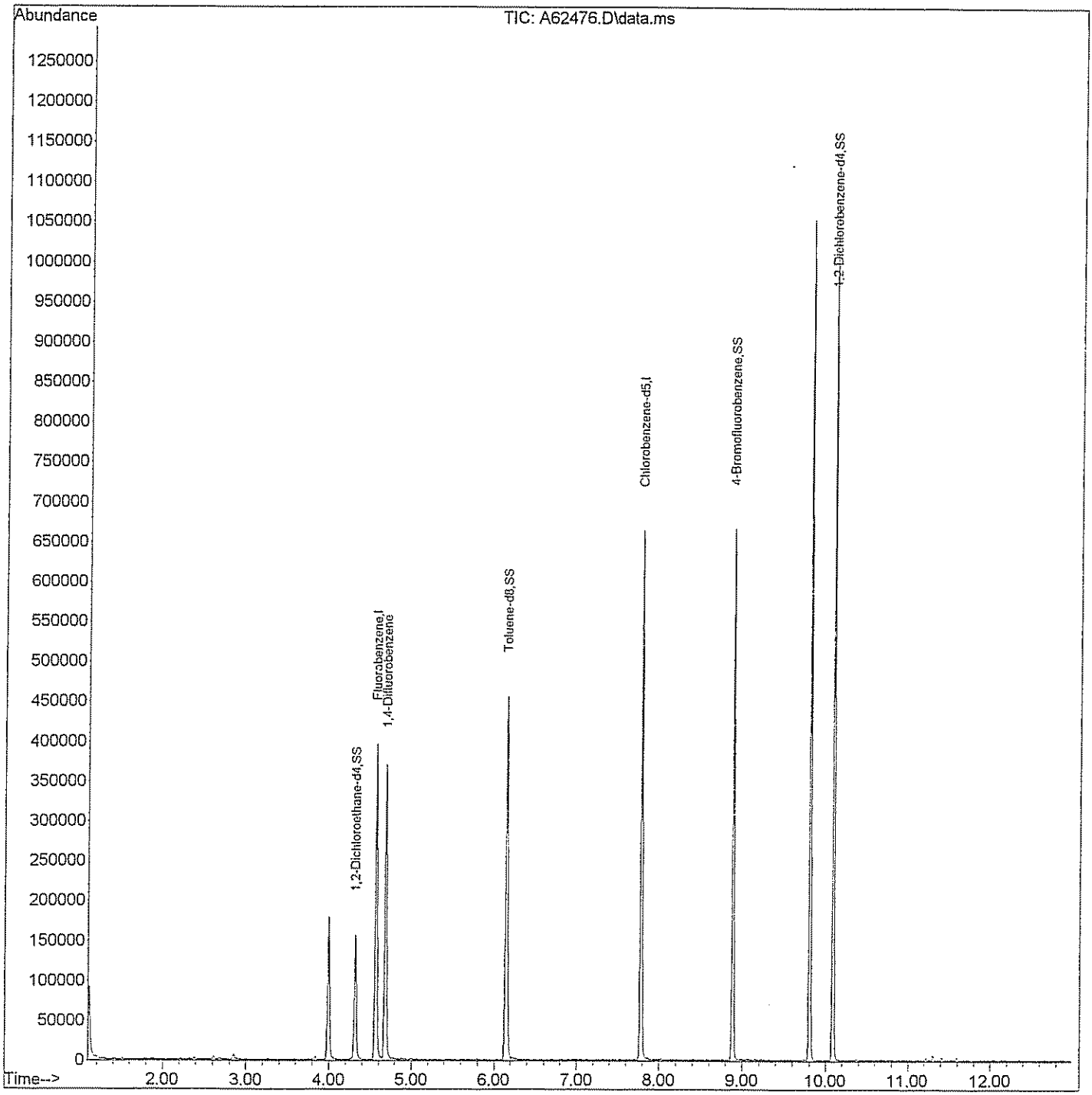
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62476.D
Acq On : 24 Mar 2009 11:26
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 24 17:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108803
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108803
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108803
Sample Volume :	5	Lab File ID :	A62475.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62475.D
Acq On : 24 Mar 2009 11:06
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:22:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	449301	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	400974	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	448334	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	125283	52.49	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.98%			
54) Toluene-d8	6.142	98	515642	55.50	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 111.00%			
76) 4-Bromofluorobenzene	8.881	95	202540	47.93	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.86%			
92) 1,2-Dichlorobenzene-d4	10.085	152	222032	53.57	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.14%			

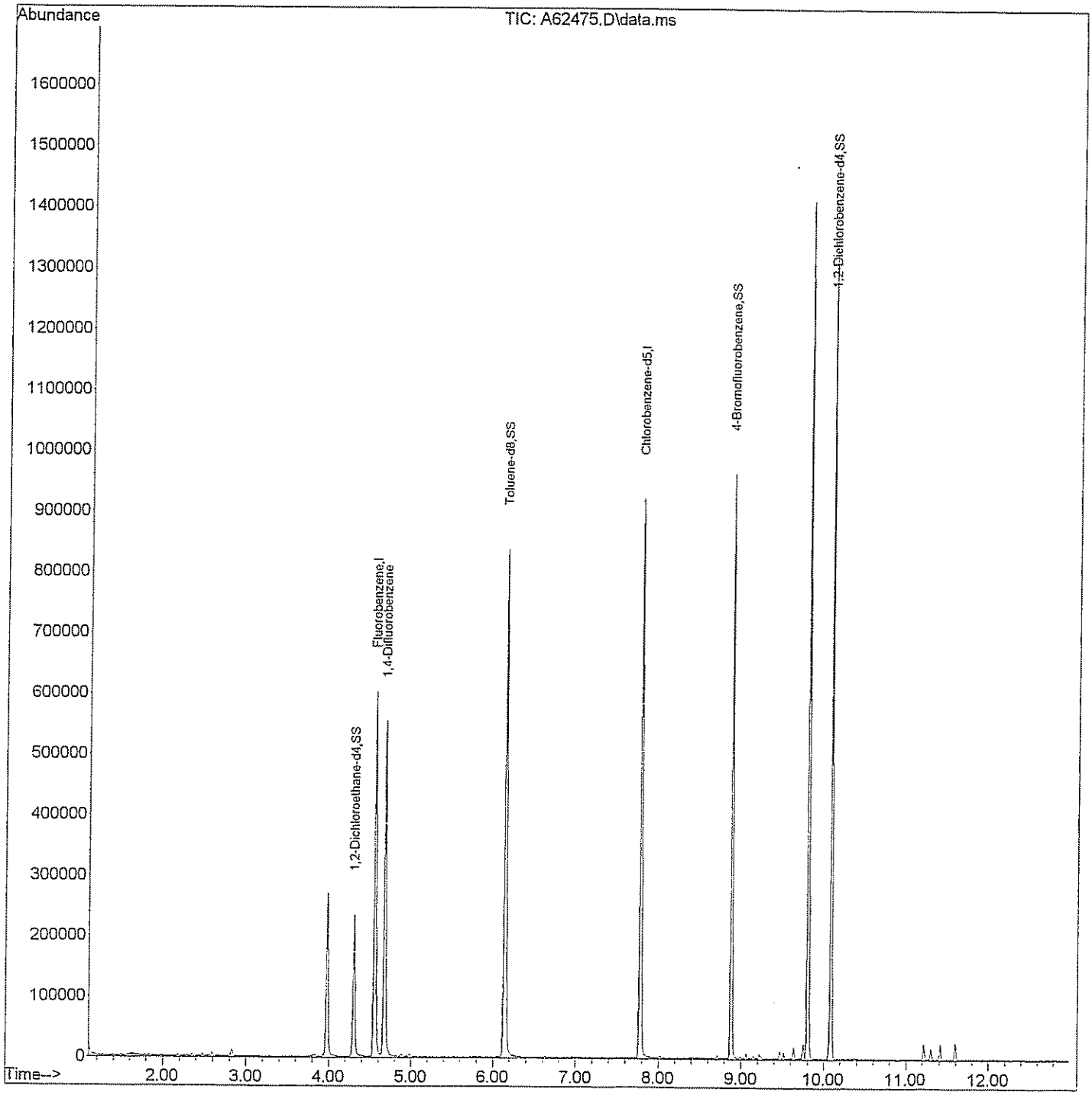
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62475.D
Acq On : 24 Mar 2009 11:06
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 13:22:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108804
Sample Volume :	5	Lab File ID :	A62510.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108804
Sample Volume :	5	Lab File ID :	A62510.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108804
Sample Volume :	5	Lab File ID :	A62510.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62510.D
Acq On : 25 Mar 2009 12:40
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 25 14:44:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

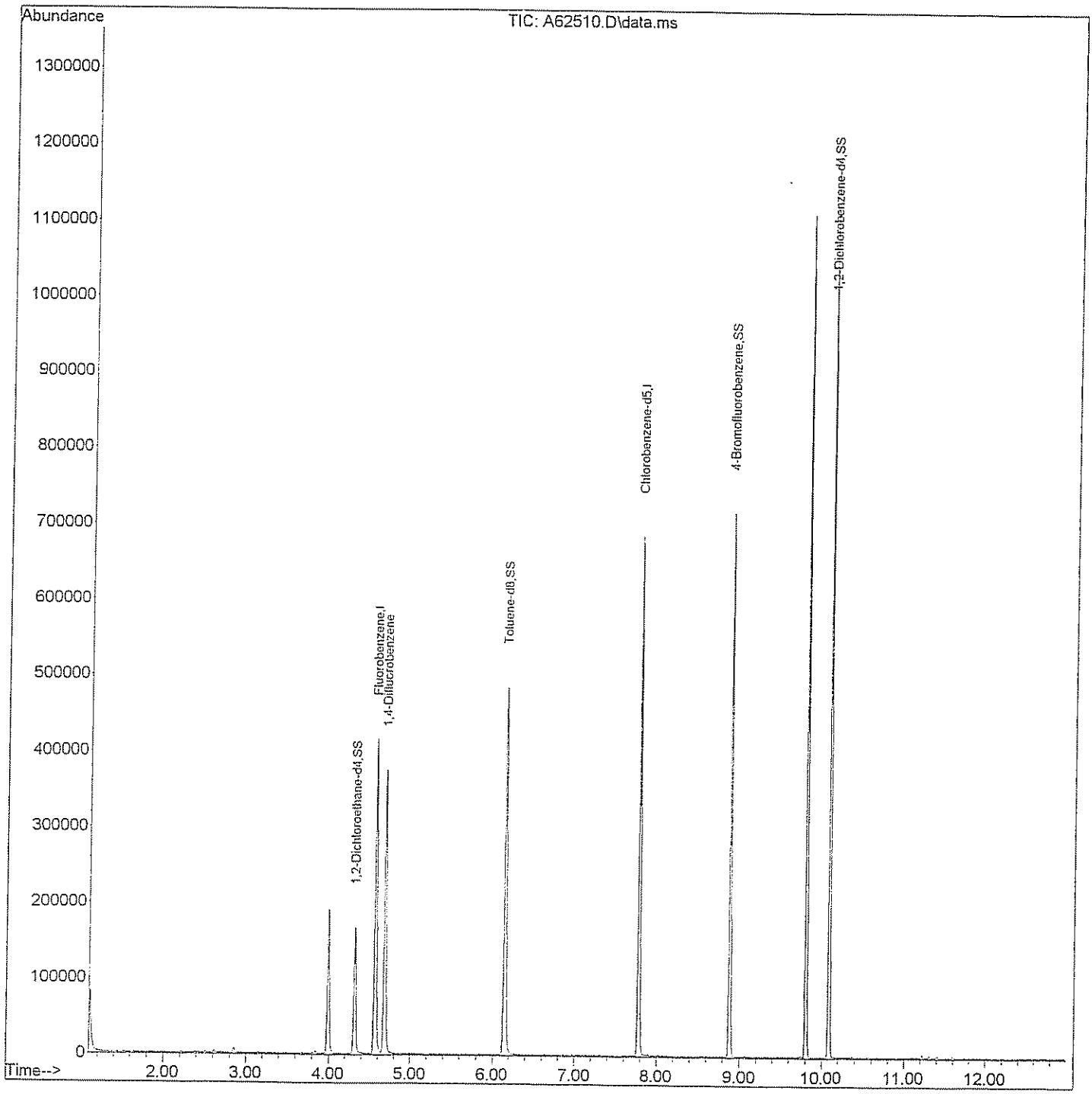
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	320125	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	282248	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	320524	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	92421	52.26	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.52%			
53) Toluene-d8	6.148	98	300300	47.94	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 95.88%			
75) 4-Bromofluorobenzene	8.881	95	150141	47.20	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.40%			
91) 1,2-Dichlorobenzene-d4	10.085	152	191289	55.13	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 110.26%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62510.D
Acq On : 25 Mar 2009 12:40
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 25 14:44:41 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
MW8S0309MS

Lab Name :	GPL Laboratories	Client. :	Earth Resources Technology, Inc
Lab Code :	GPL	SAS NO. :	903080
Case No. :		SDG NO :	903080
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903080-004-034-1/6MS
Sample Volume :	5	Lab File ID :	A62477.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	67	
79-34-5	1,1,2,2-Tetrachloroethane	52	
79-00-5	1,1,2-Trichloroethane	67	
75-34-3	1,1-Dichloroethane	64	
75-35-4	1,1-Dichloroethene	59	
120-82-1	1,2,4-Trichlorobenzene	61	
96-12-8	1,2-Dibromo-3-Chloropropane	48	
95-50-1	1,2-Dichlorobenzene	63	
107-06-2	1,2-Dichloroethane	54	
78-87-5	1,2-Dichloropropane	54	
541-73-1	1,3-Dichlorobenzene	67	
106-46-7	1,4-Dichlorobenzene	66	
78-93-3	2-Butanone	90	
591-78-6	2-Hexanone	87	
108-10-1	4-Methyl-2-Pentanone	92	
67-64-1	Acetone	74	
71-43-2	Benzene	56	
75-27-4	Bromodichloromethane	66	
75-25-2	Bromoform	59	
74-83-9	Bromomethane	140	
75-15-0	Carbon Disulfide	50	
56-23-5	Carbon Tetrachloride	75	
108-90-7	Chlorobenzene	60	
75-00-3	Chloroethane	52	
67-66-3	Chloroform	62	
74-87-3	Chloromethane	45	
110-82-7	Cyclohexane	63	
124-48-1	Dibromochloromethane	57	
75-71-8	Dichlorodifluoromethane	47	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
MW8S0309MS

Lab Name :	GPL Laboratories	Client. :	Earth Resources Technology, Inc
Lab Code :	GPL	SAS NO. :	903080
Case No. :		SDG NO :	903080
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903080-004-034-1/6MS
Sample Volume :	5	Lab File ID :	A62477.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	57	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	81	
98-82-8	Isopropylbenzene	63	
79-20-9	Methyl Acetate	43	
108-87-2	Methylcyclohexane	70	
75-09-2	Methylene Chloride	54	
100-42-5	Styrene	57	
127-18-4	Tetrachloroethylene	70	
108-88-3	Toluene	70	
79-01-6	Trichloroethene	57	
75-69-4	Trichlorofluoromethane	58	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	57	
10061-01-5	cis-1,3-Dichloropropene	63	
136777-61-2	m,p-Xylene	120	
95-47-6	o-Xylene	58	
1634-04-4	tert-butyl methyl ether	60	
156-60-5	trans-1,2-dichloroethene	59	
10061-02-6	trans-1,3-dichloropropene	59	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62477.D
Acq On : 24 Mar 2009 12:08
Operator : SM
Sample : 903080-004MS
Misc : MW8S0309,ERT,WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 24 13:23:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	438987	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	389011	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	468669	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	119128	51.08	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.16%				
54) Toluene-d8	6.142	98	526126	58.37	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 116.74%				
76) 4-Bromofluorobenzene	8.881	95	223551	50.60	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 101.20%				
92) 1,2-Dichlorobenzene-d4	10.090	152	247575	57.14	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.28%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	36881	47.42	ug/L		99
3) Chloromethane	1.327	50	68643	44.86	ug/L		96
4) Vinyl chloride	1.397	62	85394	47.01	ug/L		99
5) Bromomethane	1.616	94	167825	139.14	ug/L		93
6) Chloroethane	1.681	64	66409	52.07	ug/L		96
7) Trichlorofluoromethane	1.836	101	154993	58.53	ug/L		100
8) Ethyl Ether	2.044	59	81733	52.34	ug/L		97
9) Freon 113	2.178	101	112883	81.26	ug/L		97
10) Acrolein	2.189	56	66681	212.38	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	178656	1002.75	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	94506	59.27	ug/L		93
13) Iodomethane	2.333	142	156584	84.44	ug/L		96
14) Acetonitrile	2.483	40	916847	776.68	ug/L	#	1
15) Methylene chloride	2.590	84	111198	53.66	ug/L		88
16) Trans-1,2-dichloroethene	2.756	96	107520	58.71	ug/L		90
17) Isopropyl ether	3.093	45	398259	55.89	ug/L		98
18) 1,1-Dichloroethane	3.109	63	209036	63.69	ug/L		98
19) Acetone	2.296	43	55705	74.48	ug/L		95
20) Methyl Acetate	4.264	43	94498	43.15	ug/L	#	100
21) MTBE	2.740	73	287575	60.14	ug/L		100
22) Carbon disulfide	2.355	76	278280	50.21	ug/L		100
24) Acrylonitrile	2.831	53	147490	265.55	ug/L		98
25) Chloroprene	3.146	53	174374	55.62	ug/L		87
26) n-Heptane	4.559	71	3110	1.94	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	165987	60.45	ug/L	#	72
28) Cis-1,2-dichloroethene	3.574	96	127079	57.18	ug/L		99

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62477.D
Acq On : 24 Mar 2009 12:08
Operator : SM
Sample : 903080-004MS
Misc : MW8S0309,ERT,WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 24 13:23:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	241540m	102.67	ug/L		
30) Propionitrile	3.735	54	135312	493.37	ug/L		99
31) Bromochloromethane	3.783	128	66564	69.43	ug/L	#	70
32) Tetrahydrofuran	3.788	72	23795	52.85	ug/L	#	22
33) Chloroform	3.836	83	232643	62.16	ug/L		98
34) Cyclohexane	3.933	56	204048	62.62	ug/L		90
35) 1,1,1-Trichloroethane	3.960	97	188453	67.47	ug/L		99
36) Carbon tetrachloride	4.061	117	178572	74.68	ug/L		99
37) Methacrylonitrile	3.826	41	833098	558.23	ug/L	#	20
38) Methylcyclohexane	4.992	83	207801	69.97	ug/L		89
39) Isobutyl Alcohol	4.264	43	94498	726.05	ug/L		100
42) 2-Butanone	3.612	43	113586	89.51	ug/L		100
43) 1,1-Dichloropropene	4.099	75	156710	59.42	ug/L		98
44) Vinyl Acetate	3.136	43	116690	39.33	ug/L		98
45) Benzene	4.281	78	458283	55.66	ug/L		100
46) 1,2-Dichloroethane	4.377	62	140454	54.41	ug/L	#	86
47) Trichloroethene	4.880	95	120991	57.22	ug/L	#	77
48) 1,2-Dichloropropane	5.163	63	112900	53.51	ug/L		100
49) Methyl methacrylate	5.265	69	80904	52.95	ug/L		88
50) Dibromomethane	5.276	93	82285	63.41	ug/L		97
51) Bromodichloromethane	5.431	83	181060	65.74	ug/L	#	99
52) 2-Chloroethylvinyl ether	6.217	63	55081	65.57	ug/L	#	49
53) Cis-1,3-dichloropropene	5.918	75	210253	63.35	ug/L		96
55) Toluene	6.217	92	380635	70.53	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	176994	58.86	ug/L		97
57) Ethyl methacrylate	6.624	69	171485	63.51	ug/L		100
58) 1,1,2-Trichloroethane	6.773	83	108394	66.94	ug/L		94
60) 4-Methyl-2-pentanone	6.094	43	252721	92.47	ug/L		94
61) 2-Hexanone	7.062	43	170893	86.62	ug/L		96
62) Tetrachloroethene	6.795	166	190214	70.40	ug/L		100
63) 1,3-Dichloropropane	6.971	76	208270	53.41	ug/L		86
64) Dibromochloromethane	7.185	129	159796	56.60	ug/L		96
65) 1,2-Dibromoethane	7.314	107	124601	51.73	ug/L		95
66) 1-Chlorohexane	7.790	91	218633	53.95	ug/L		95
67) Chlorobenzene	7.806	112	476178	59.92	ug/L		86
68) 1,1,1,2-Tetrachloroethane	7.908	131	180482	63.42	ug/L		97
69) Ethylbenzene	7.897	91	771139	56.69	ug/L		96
70) m,p-Xylene	8.020	106	652759	122.16	ug/L		86
71) o-Xylene	8.394	106	313964	57.99	ug/L		91
72) Xylene (Total)	8.020	106	969792m	176.68	ug/L		
73) Styrene	8.421	104	514900	57.23	ug/L		94
74) Bromoform	8.598	173	103486	59.11	ug/L		100

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62477.D
Acq On : 24 Mar 2009 12:08
Operator : SM
Sample : 903080-004MS
Misc : MW8S0309,ERT,WATER
ALS Vial : 6 Sample Multiplier: 1

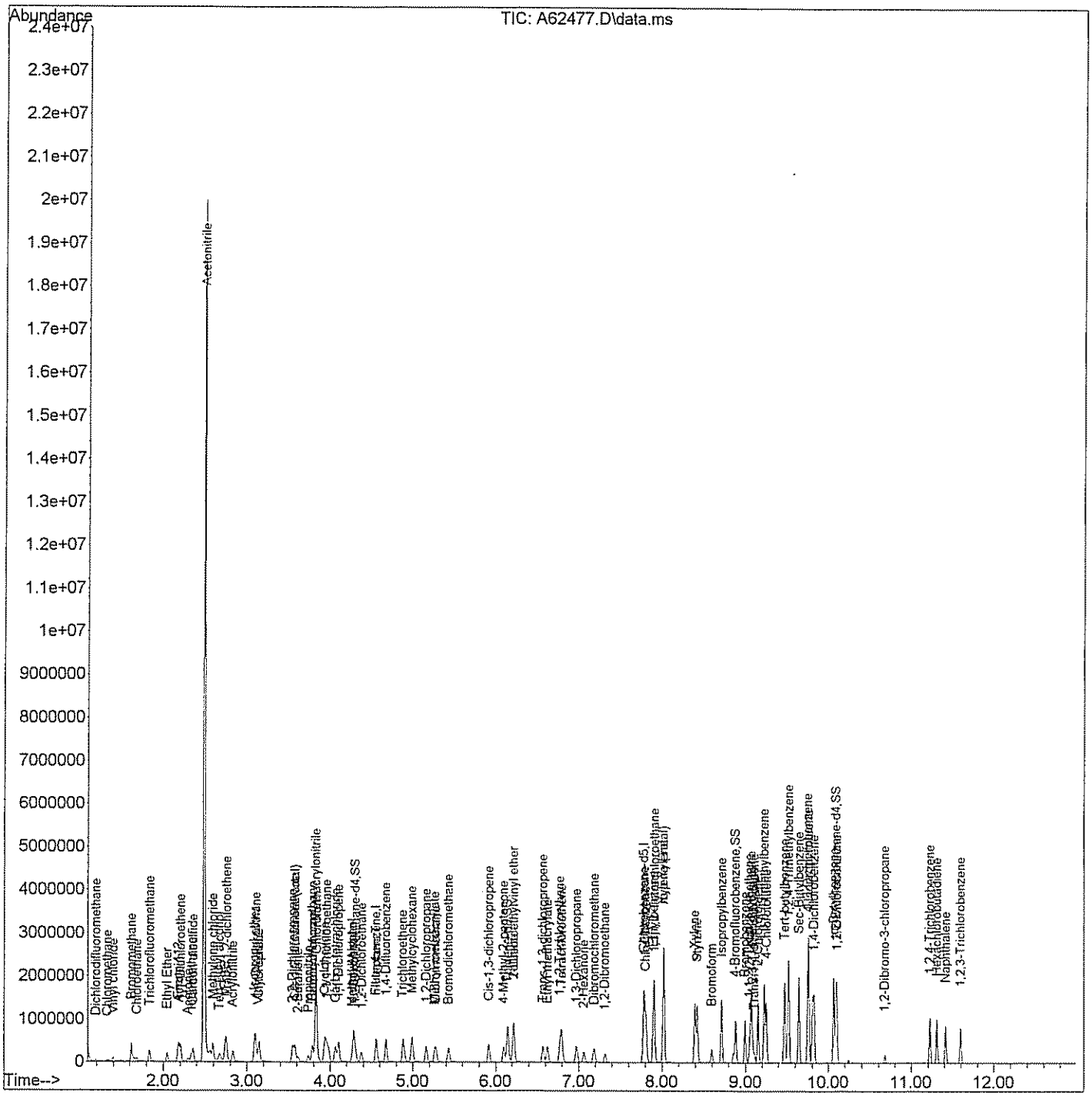
Quant Time: Mar 24 13:23:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	725033	62.97	ug/L		98
77) Bromobenzene	8.994	156	209677	66.52	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	161404	52.14	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	49624	53.96	ug/L		99
80) n-Propylbenzene	9.068	91	948010	59.49	ug/L		94
81) Trans-1,4-dichloro-2-b...	9.106	53	28339	36.76	ug/L	#	25
82) 2-Chlorotoluene	9.154	126	212919	63.00	ug/L		89
83) 4-Chlorotoluene	9.250	126	226327	64.52	ug/L		77
84) 1,3,5-Trimethylbenzene	9.224	105	691843	61.16	ug/L		93
85) Tert-butylbenzene	9.470	119	659889	67.14	ug/L		93
87) 1,2,4-Trimethylbenzene	9.518	105	721612	61.41	ug/L		90
88) Sec-Butylbenzene	9.641	105	971236	64.47	ug/L		95
89) 1,3-Dichlorobenzene	9.748	146	444125	67.15	ug/L		99
90) 4-Isopropyltoluene	9.759	119	896462	69.98	ug/L		96
91) 1,4-Dichlorobenzene	9.823	146	439938	66.29	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	395480	62.60	ug/L		100
94) n-Butylbenzene	10.064	91	742187	58.70	ug/L	#	88
95) 1,2-Dibromo-3-chloropr...	10.679	75	25256	47.64	ug/L	#	65
96) 1,2,4-Trichlorobenzene	11.224	180	234716	61.23	ug/L		97
97) Hexachlorobutadiene	11.305	225	121993	68.33	ug/L		100
98) Naphthalene	11.412	128	514289	56.29	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	192345	59.93	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62477.D
Acq On : 24 Mar 2009 12:08
Operator : SM
Sample : 903080-004MS
Misc : MW8S0309,ERT,WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 24 13:23:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
MW8S0309MSD

Lab Name :	GPL Laboratories	Client. :	Earth Resources Technology, Inc
Lab Code :	GPL	SAS NO. :	903080
Case No. :		SDG NO :	903080
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903080-004-034-1/6MSD
Sample Volume :	5	Lab File ID :	A62479.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	59	
79-34-5	1,1,2,2-Tetrachloroethane	52	
79-00-5	1,1,2-Trichloroethane	60	
75-34-3	1,1-Dichloroethane	56	
75-35-4	1,1-Dichloroethene	54	
120-82-1	1,2,4-Trichlorobenzene	60	
96-12-8	1,2-Dibromo-3-Chloropropane	53	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	48	
78-87-5	1,2-Dichloropropane	50	
541-73-1	1,3-Dichlorobenzene	61	
106-46-7	1,4-Dichlorobenzene	61	
78-93-3	2-Butanone	90	
591-78-6	2-Hexanone	92	
108-10-1	4-Methyl-2-Pentanone	97	
67-64-1	Acetone	80	
71-43-2	Benzene	47	
75-27-4	Bromodichloromethane	48	
75-25-2	Bromoform	57	
74-83-9	Bromomethane	130	
75-15-0	Carbon Disulfide	42	
56-23-5	Carbon Tetrachloride	66	
108-90-7	Chlorobenzene	53	
75-00-3	Chloroethane	96	
67-66-3	Chloroform	55	
74-87-3	Chloromethane	45	
110-82-7	Cyclohexane	52	
124-48-1	Dibromochloromethane	52	
75-71-8	Dichlorodifluoromethane	44	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
MW8S0309MSD

Lab Name :	GPL Laboratories	Client. :	Earth Resources Technology, Inc
Lab Code :	GPL	SAS NO. :	903080
Case No. :		SDG NO :	903080
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903080-004-034-1/6MSD
Sample Volume :	5	Lab File ID :	A62479.D
Level :	Low	Date Received	03/12/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	74	
98-82-8	Isopropylbenzene	54	
79-20-9	Methyl Acetate	55	
108-87-2	Methylcyclohexane	62	
75-09-2	Methylene Chloride	44	
100-42-5	Styrene	50	
127-18-4	Tetrachloroethylene	59	
108-88-3	Toluene	60	
79-01-6	Trichloroethene	48	
75-69-4	Trichlorofluoromethane	56	
75-01-4	Vinyl Chloride	42	
156-59-2	cis-1,2-Dichloroethene	49	
10061-01-5	cis-1,3-Dichloropropene	57	
136777-61-2	m,p-Xylene	110	
95-47-6	o-Xylene	50	
1634-04-4	tert-butyl methyl ether	58	
156-60-5	trans-1,2-dichloroethene	52	
10061-02-6	trans-1,3-dichloropropene	58	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62479.D
Acq On : 24 Mar 2009 12:48
Operator : SM
Sample : 903080-004MSD
Misc : MW8S0309,ERT,WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 25 19:41:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	441438	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.671	114	399176	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	472907	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	128052	54.60	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 109.20%				
54) Toluene-d8	6.142	98	535242	57.87	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 115.74%				
76) 4-Bromofluorobenzene	8.881	95	220891	49.55	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.10%				
92) 1,2-Dichlorobenzene-d4	10.085	152	261369	59.78	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 119.56%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	34603	44.24	ug/L		96
3) Chloromethane	1.317	50	69739	45.32	ug/L		96
4) Vinyl chloride	1.386	62	77225	42.28	ug/L		99
5) Bromomethane	1.617	94	153012	130.99	ug/L		94
6) Chloroethane	1.675	64	123171	96.05	ug/L		95
7) Trichlorofluoromethane	1.825	101	149417	56.16	ug/L		97
8) Ethyl Ether	2.044	59	77261	49.20	ug/L		96
9) Freon 113	2.173	101	102759	73.56	ug/L		95
10) Acrolein	2.189	56	68631	217.37	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	223882	1249.61	ug/L	#	47
12) 1,1-Dichloroethene	2.200	96	86597	54.01	ug/L		88
13) Iodomethane	2.328	142	66452	35.63	ug/L		99
14) Acetonitrile	2.478	40	764364	649.56	ug/L	#	1
15) Methylene chloride	2.590	84	91293	44.12	ug/L		100
16) Trans-1,2-dichloroethene	2.751	96	96561	52.44	ug/L		84
17) Isopropyl ether	3.093	45	361674	50.48	ug/L		100
18) 1,1-Dichloroethane	3.104	63	184936	56.03	ug/L		96
19) Acetone	2.296	43	60019	79.73	ug/L		98
20) Methyl Acetate	4.259	43	115194	55.10	ug/L	#	100
21) MTBE	2.735	73	278391	57.90	ug/L		100
22) Carbon disulfide	2.349	76	235560	42.38	ug/L		100
24) Acrylonitrile	2.831	53	156399	280.02	ug/L		99
25) Chloroprene	3.147	53	159122	50.47	ug/L		92
26) n-Heptane	4.548	71	3746	2.32	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	152029	55.06	ug/L	#	74
28) Cis-1,2-dichloroethene	3.575	96	109835	49.15	ug/L		96

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62479.D
Acq On : 24 Mar 2009 12:48
Operator : SM
Sample : 903080-004MSD
Misc : MW8S0309,ERT,WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 25 19:41:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.575	96	215295m	91.01 ug/L		
30) Propionitrile	3.730	54	144842	525.19 ug/L		97
31) Bromochloromethane	3.778	128	58372	60.54 ug/L		77
32) Tetrahydrofuran	3.783	72	25230	55.72 ug/L	#	1
33) Chloroform	3.831	83	208821	55.49 ug/L		98
34) Cyclohexane	3.933	56	170252	51.85 ug/L	#	82
35) 1,1,1-Trichloroethane	3.954	97	164942	58.72 ug/L		97
36) Carbon tetrachloride	4.056	117	157571	65.53 ug/L		95
37) Methacrylonitrile	3.826	41	859707	572.87 ug/L	#	19
38) Methylcyclohexane	4.992	83	184383	61.74 ug/L		88
39) Isobutyl Alcohol	4.259	43	115194	880.15 ug/L		97
42) 2-Butanone	3.612	43	117380	90.14 ug/L		96
43) 1,1-Dichloropropene	4.093	75	139496	51.55 ug/L		97
44) Vinyl Acetate	3.136	43	123083	40.43 ug/L		99
45) Benzene	4.281	78	400111	47.36 ug/L		100
46) 1,2-Dichloroethane	4.372	62	126870	47.90 ug/L	#	87
47) Trichloroethene	4.880	95	104460	48.15 ug/L	#	77
48) 1,2-Dichloropropane	5.158	63	108894	50.30 ug/L		98
49) Methyl methacrylate	5.260	69	68973	44.00 ug/L		95
50) Dibromomethane	5.276	93	65711	49.35 ug/L		97
51) Bromodichloromethane	5.431	83	136546	48.32 ug/L	#	99
52) 2-Chloroethylvinyl ether	6.212	63	49989	58.00 ug/L	#	49
53) Cis-1,3-dichloropropene	5.912	75	193923	56.94 ug/L		99
55) Toluene	6.212	92	334509	60.40 ug/L		98
56) Trans-1,3-dichloropropene	6.570	75	179407	58.14 ug/L		96
57) Ethyl methacrylate	6.624	69	163522	59.02 ug/L		99
58) 1,1,2-Trichloroethane	6.774	83	100471	60.47 ug/L		94
60) 4-Methyl-2-pentanone	6.094	43	267705	97.07 ug/L		97
61) 2-Hexanone	7.063	43	183459	92.16 ug/L		97
62) Tetrachloroethene	6.790	166	161558	59.26 ug/L		99
63) 1,3-Dichloropropane	6.972	76	193290	49.13 ug/L		89
64) Dibromochloromethane	7.186	129	148409	52.10 ug/L		97
65) 1,2-Dibromoethane	7.314	107	118397	48.71 ug/L		99
66) 1-Chlorohexane	7.785	91	203298	49.71 ug/L		93
67) Chlorobenzene	7.806	112	423230	52.78 ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.908	131	161432	56.21 ug/L		96
69) Ethylbenzene	7.897	91	684826	49.89 ug/L		97
70) m,p-Xylene	8.020	106	576236	106.87 ug/L		85
71) o-Xylene	8.395	106	272785	49.93 ug/L		91
72) Xylene (Total)	8.020	106	853837m	154.16 ug/L		
73) Styrene	8.421	104	454561	50.07 ug/L		93
74) Bromoform	8.598	173	100840	57.09 ug/L		98

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62479.D
Acq On : 24 Mar 2009 12:48
Operator : SM
Sample : 903080-004MSD
Misc : MW8S0309,ERT,WATER
ALS Vial : 7 Sample Multiplier: 1

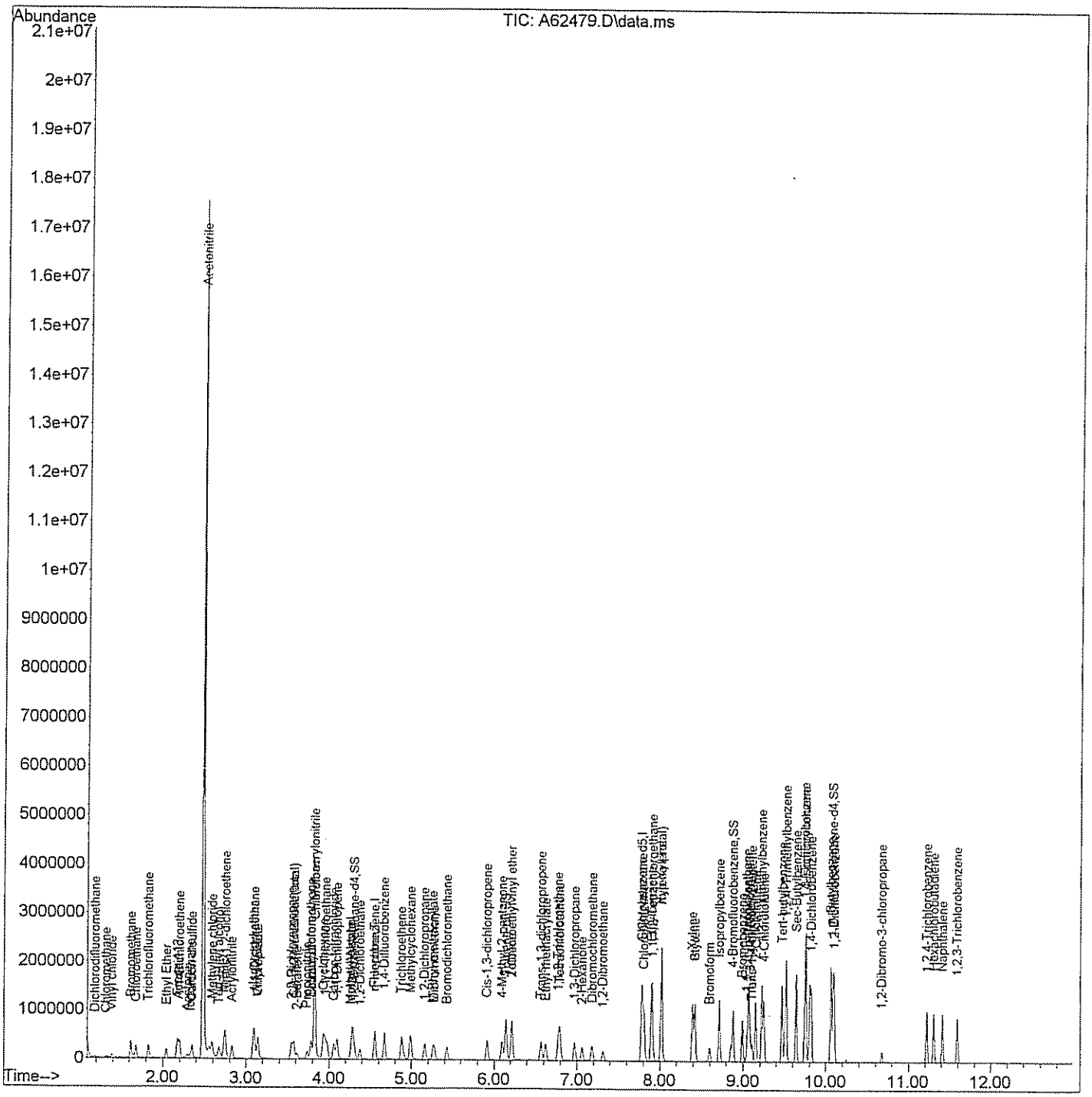
Quant Time: Mar 25 19:41:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	627585	54.02	ug/L		97
77) Bromobenzene	8.994	156	186047	58.49	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	163068	52.20	ug/L		99
79) 1,2,3-Trichloropropane	9.085	110	50337	54.25	ug/L		99
80) n-Propylbenzene	9.063	91	845639	52.59	ug/L		94
81) Trans-1,4-dichloro-2-b...	9.106	53	48429	62.56	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	193576	56.77	ug/L		85
83) 4-Chlorotoluene	9.251	126	201818	57.02	ug/L		76
84) 1,3,5-Trimethylbenzene	9.224	105	607531	53.23	ug/L		92
85) Tert-butylbenzene	9.470	119	583538	58.84	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	637587	53.77	ug/L		89
88) Sec-Butylbenzene	9.641	105	869300	57.19	ug/L		93
89) 1,3-Dichlorobenzene	9.748	146	405570	60.77	ug/L		99
90) 4-Isopropyltoluene	9.753	119	795897	61.57	ug/L		93
91) 1,4-Dichlorobenzene	9.823	146	407859	60.90	ug/L		97
93) 1,2-Dichlorobenzene	10.101	146	369626	57.98	ug/L		97
94) n-Butylbenzene	10.058	91	684645	53.66	ug/L	#	87
95) 1,2-Dibromo-3-chloropr...	10.679	75	28143	52.61	ug/L	#	68
96) 1,2,4-Trichlorobenzene	11.225	180	230954	59.70	ug/L		99
97) Hexachlorobutadiene	11.305	225	120778	67.04	ug/L		97
98) Naphthalene	11.412	128	578404	62.74	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	205434	63.44	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62479.D
Acq On : 24 Mar 2009 12:48
Operator : SM
Sample : 903080-004MSD
Misc : MW8S0309,ERT,WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 25 19:41:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108803
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	59	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	50	
79-00-5	1,1,2-Trichloroethane	63	
75-34-3	1,1-Dichloroethane	58	
75-35-4	1,1-Dichloroethene	52	
563-58-6	1,1-Dichloropropene	52	
87-61-6	1,2,3-Trichlorobenzene	60	
96-18-4	1,2,3-Trichloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	59	
95-63-6	1,2,4-Trimethylbenzene	56	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
95-50-1	1,2-Dichlorobenzene	60	
107-06-2	1,2-Dichloroethane	53	
78-87-5	1,2-Dichloropropane	52	
108-67-8	1,3,5-trimethylbenzene	55	
541-73-1	1,3-Dichlorobenzene	62	
142-28-9	1,3-Dichloropropane	51	
106-46-7	1,4-Dichlorobenzene	62	
594-20-7	2,2-Dichloropropane	56	
78-93-3	2-Butanone	90	
95-49-8	2-Chlorotoluene	58	
591-78-6	2-Hexanone	87	
106-43-4	4-Chlorotoluene	59	
99-87-6	4-Isopropyltoluene	63	
108-10-1	4-Methyl-2-Pentanone	90	
67-64-1	Acetone	87	
71-43-2	Benzene	50	
108-86-1	Bromobenzene	62	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108803
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	67	
75-27-4	Bromodichloromethane	62	
75-25-2	Bromoform	57	
74-83-9	Bromomethane	120	
75-15-0	Carbon Disulfide	45	
56-23-5	Carbon Tetrachloride	63	
108-90-7	Chlorobenzene	55	
75-00-3	Chloroethane	69	
67-66-3	Chloroform	58	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	45	
124-48-1	Dibromochloromethane	55	
74-95-3	Dibromomethane	52	
75-71-8	Dichlorodifluoromethane	41	
100-41-4	Ethylbenzene	52	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	56	
87-68-3	Hexachlorobutadiene	63	
98-82-8	Isopropylbenzene	55	
79-20-9	Methyl Acetate	42	
108-87-2	Methylcyclohexane	48	
75-09-2	Methylene Chloride	50	
91-20-3	Naphthalene	54	
135-98-8	Sec-Butylbenzene	57	
100-42-5	Styrene	53	
127-18-4	Tetrachloroethylene	61	
108-88-3	Toluene	64	
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108803

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108803
Sample Volume :	5	Lab File ID :	A62473.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	39	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	51	
10061-01-5	cis-1,3-Dichloropropene	62	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	55	
103-65-1	n-Propylbenzene	53	
95-47-6	o-Xylene	53	
98-06-6	tert-Butylbenzene	59	
1634-04-4	tert-butyl methyl ether	59	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	60	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 13:20:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	477603	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	424198	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	498687	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	136188	53.67	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 107.34%				
54) Toluene-d8	6.142	98	575203	58.52	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 117.04%				
76) 4-Bromofluorobenzene	8.881	95	233300	49.63	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.26%				
92) 1,2-Dichlorobenzene-d4	10.090	152	263141	57.08	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.16%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.194	85	34644	40.94	ug/L		99
3) Chloromethane	1.327	50	71962	43.22	ug/L		100
4) Vinyl chloride	1.392	62	85503	43.26	ug/L		94
5) Bromomethane	1.616	94	145515	120.87	ug/L		94
6) Chloroethane	1.686	64	96256	69.37	ug/L		95
7) Trichlorofluoromethane	1.836	101	146989	51.19	ug/L		94
8) Ethyl Ether	2.044	59	89657	52.78	ug/L		94
9) Freon 113	2.178	101	84483	55.90	ug/L		87
10) Acrolein	2.189	56	75309	220.46	ug/L	#	74
11) Tert-Butyl alcohol	2.665	59	183583	947.09	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	90766	52.32	ug/L		93
13) Iodomethane	2.333	142	167250	82.90	ug/L		96
14) Acetonitrile	2.483	40	868769	680.71	ug/L	#	1
15) Methylene chloride	2.590	84	113608	50.49	ug/L		88
16) Trans-1,2-dichloroethene	2.750	96	110412	55.42	ug/L		84
17) Isopropyl ether	3.093	45	412234	53.18	ug/L		98
18) 1,1-Dichloroethane	3.109	63	207889	58.22	ug/L		99
19) Acetone	2.296	43	71313	87.46	ug/L		96
20) Methyl Acetate	4.259	43	99998	41.74	ug/L	#	100
21) MTBE	2.740	73	305876	58.80	ug/L		100
22) Carbon disulfide	2.355	76	272745	45.30	ug/L		100
24) Acrylonitrile	2.831	53	154477	255.64	ug/L		98
25) Chloroprene	3.146	53	162945	47.77	ug/L		92
26) n-Heptane	4.553	71	3783	2.17	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	166832	55.84	ug/L	#	76
28) Cis-1,2-dichloroethene	3.574	96	124143	51.34	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 13:20:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.750	96	238433m	93.16 ug/L		
30) Propionitrile	3.729	54	142156	476.42 ug/L		96
31) Bromochloromethane	3.783	128	69956	67.07 ug/L	#	70
32) Tetrahydrofuran	3.788	72	24678	50.38 ug/L	#	22
33) Chloroform	3.836	83	236636	58.12 ug/L		97
34) Cyclohexane	3.938	56	160666	45.15 ug/L		90
35) 1,1,1-Trichloroethane	3.959	97	181533	59.74 ug/L		99
36) Carbon tetrachloride	4.061	117	163512	62.85 ug/L		98
37) Methacrylonitrile	3.826	41	882431	543.48 ug/L	#	19
38) Methylcyclohexane	4.992	83	156866	48.55 ug/L		90
39) Isobutyl Alcohol	4.259	43	99998	706.19 ug/L		99
42) 2-Butanone	3.612	43	124117	89.70 ug/L		96
43) 1,1-Dichloropropene	4.099	75	148897	51.78 ug/L		100
44) Vinyl Acetate	3.136	43	126968	39.25 ug/L		98
45) Benzene	4.280	78	451189	50.25 ug/L		100
46) 1,2-Dichloroethane	4.371	62	148388	52.72 ug/L	#	85
47) Trichloroethene	4.885	95	112248	48.68 ug/L	#	67
48) 1,2-Dichloropropane	5.158	63	119451	51.92 ug/L		99
49) Methyl methacrylate	5.265	69	74035	44.44 ug/L		99
50) Dibromomethane	5.281	93	73667	52.06 ug/L		99
51) Bromodichloromethane	5.431	83	185976	61.93 ug/L	#	99
52) 2-Chloroethylvinyl ether	5.778	63	83603	91.27 ug/L		97
53) Cis-1,3-dichloropropene	5.912	75	223645	61.79 ug/L		100
55) Toluene	6.217	92	374765	63.68 ug/L		100
56) Trans-1,3-dichloropropene	6.570	75	198093	60.41 ug/L		98
57) Ethyl methacrylate	6.624	69	174826	59.38 ug/L		99
58) 1,1,2-Trichloroethane	6.773	83	111151	62.95 ug/L		94
60) 4-Methyl-2-pentanone	6.094	43	260787	89.68 ug/L		95
61) 2-Hexanone	7.062	43	182158	86.77 ug/L		99
62) Tetrachloroethene	6.795	166	174271	60.62 ug/L		97
63) 1,3-Dichloropropane	6.971	76	212497	51.22 ug/L		88
64) Dibromochloromethane	7.185	129	166077	55.29 ug/L		97
65) 1,2-Dibromoethane	7.319	107	133876	52.23 ug/L		100
66) 1-Chlorohexane	7.785	91	201584	46.75 ug/L		94
67) Chlorobenzene	7.806	112	463036	54.76 ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.908	131	178236	58.86 ug/L		99
69) Ethylbenzene	7.897	91	746896	51.60 ug/L		97
70) m,p-Xylene	8.020	106	629169	110.66 ug/L		86
71) o-Xylene	8.394	106	304747	52.90 ug/L		89
72) Xylene (Total)	8.020	106	936589m	160.36 ug/L		
73) Styrene	8.421	104	510596	53.33 ug/L		93
74) Bromoform	8.598	173	105655	56.72 ug/L		100

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 13:20:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

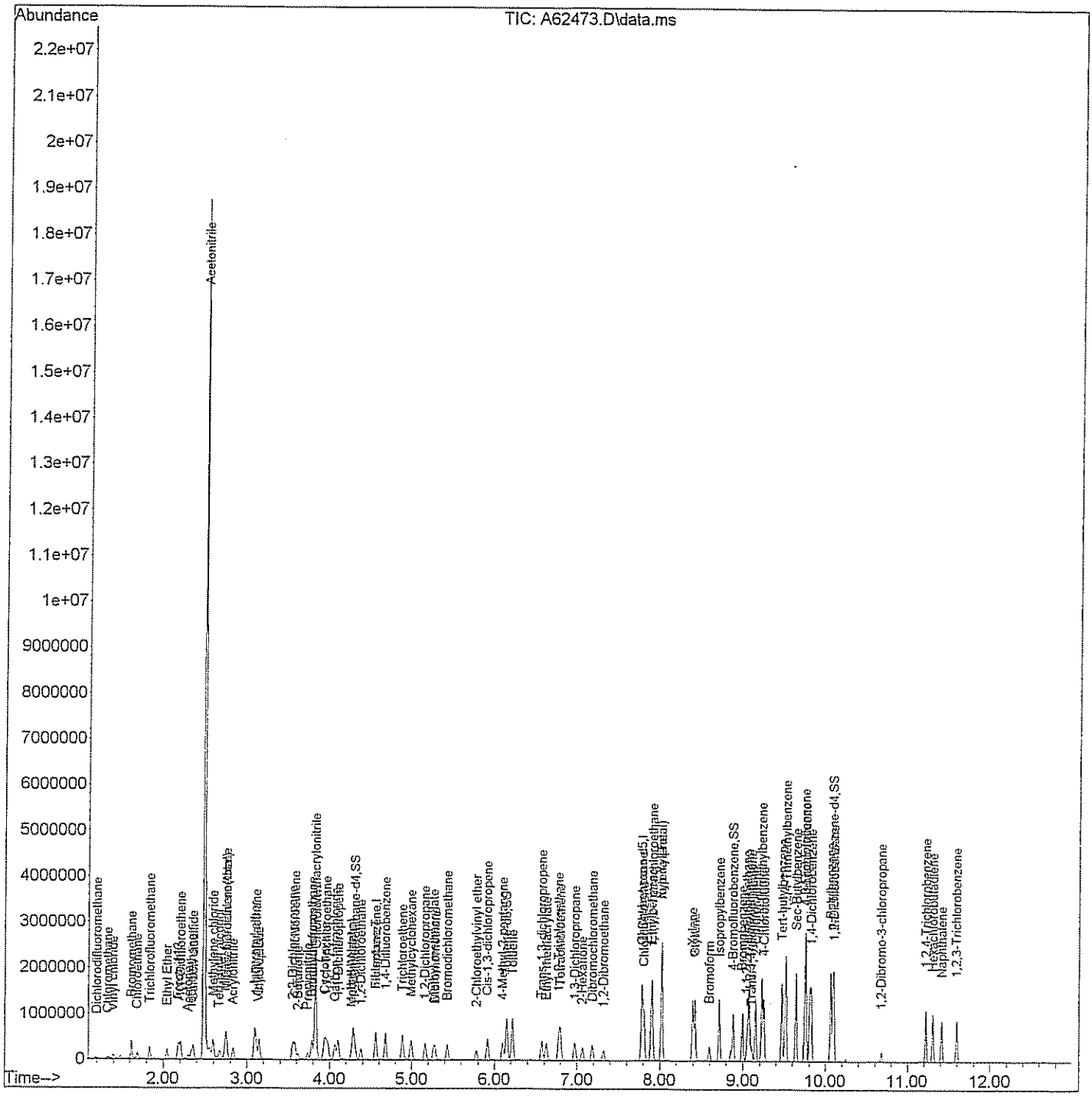
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) Isopropylbenzene	8.715	105	678521	55.39	ug/L	99
77) Bromobenzene	8.994	156	207306	61.81	ug/L	99
78) 1,1,2,2-Tetrachloroethane	9.047	83	163497	49.63	ug/L	98
79) 1,2,3-Trichloropropane	9.084	110	50667	51.78	ug/L	98
80) n-Propylbenzene	9.068	91	906326	53.45	ug/L	95
81) Trans-1,4-dichloro-2-b...	9.106	53	34859	42.64	ug/L #	1
82) 2-Chlorotoluene	9.149	126	207954	57.83	ug/L	88
83) 4-Chlorotoluene	9.250	126	220277	59.02	ug/L	78
84) 1,3,5-Trimethylbenzene	9.224	105	665240	55.27	ug/L	92
85) Tert-butylbenzene	9.470	119	612916	58.60	ug/L	94
87) 1,2,4-Trimethylbenzene	9.518	105	700999	56.06	ug/L	90
88) Sec-Butylbenzene	9.641	105	915601	57.12	ug/L	95
89) 1,3-Dichlorobenzene	9.748	146	437530	62.17	ug/L	100
90) 4-Isopropyltoluene	9.759	119	864513	63.43	ug/L	95
91) 1,4-Dichlorobenzene	9.823	146	439725	62.27	ug/L	99
93) 1,2-Dichlorobenzene	10.101	146	402135	59.82	ug/L	97
94) n-Butylbenzene	10.058	91	738231	54.87	ug/L	90
95) 1,2-Dibromo-3-chloropr...	10.679	75	25418	45.06	ug/L #	65
96) 1,2,4-Trichlorobenzene	11.224	180	239889	58.81	ug/L	99
97) Hexachlorobutadiene	11.305	225	120345	63.35	ug/L	97
98) Naphthalene	11.412	128	522161	53.71	ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	205682	60.23	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

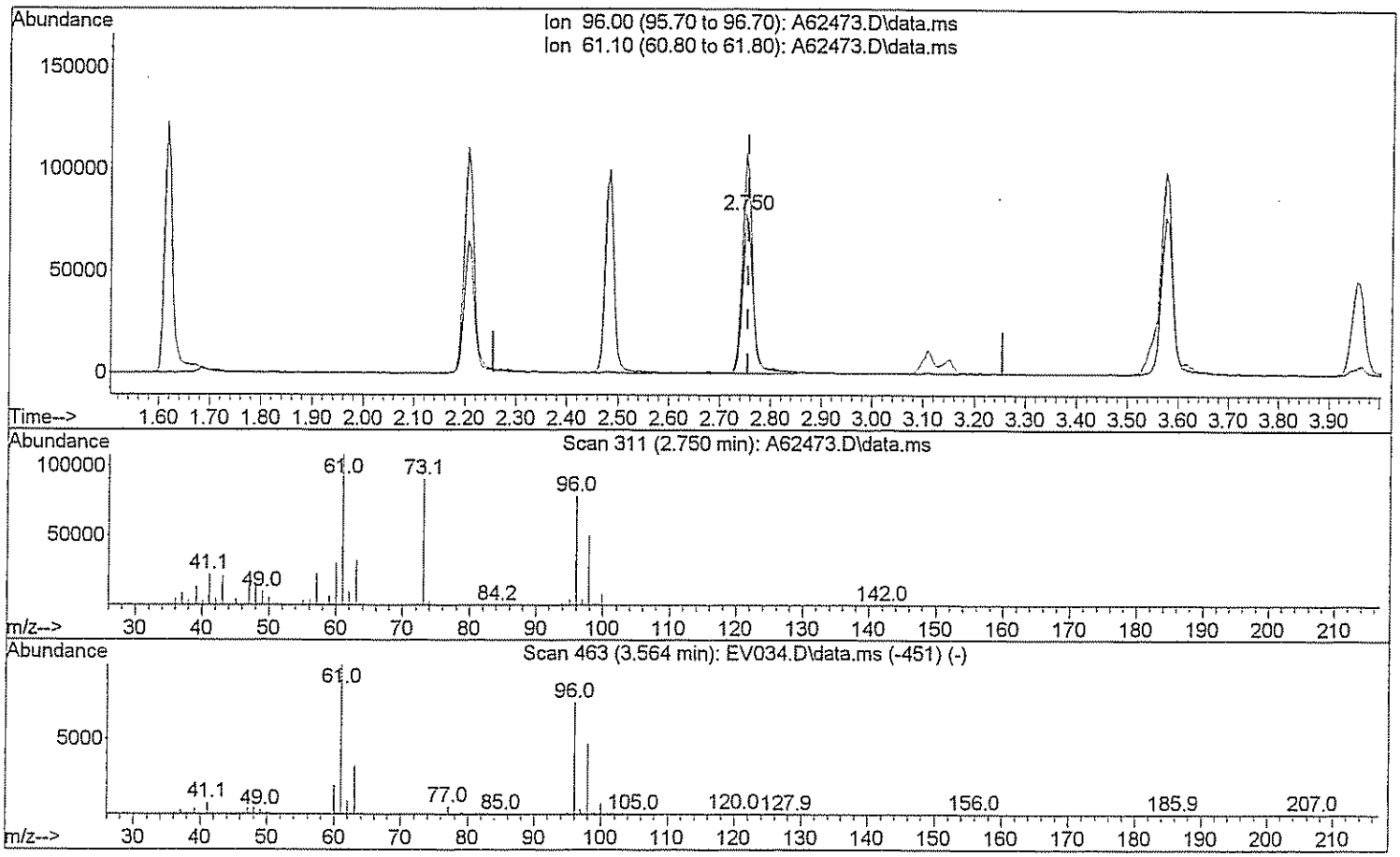
Quant Time: Mar 24 13:20:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 10:50:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62473.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 43.14 ug/L

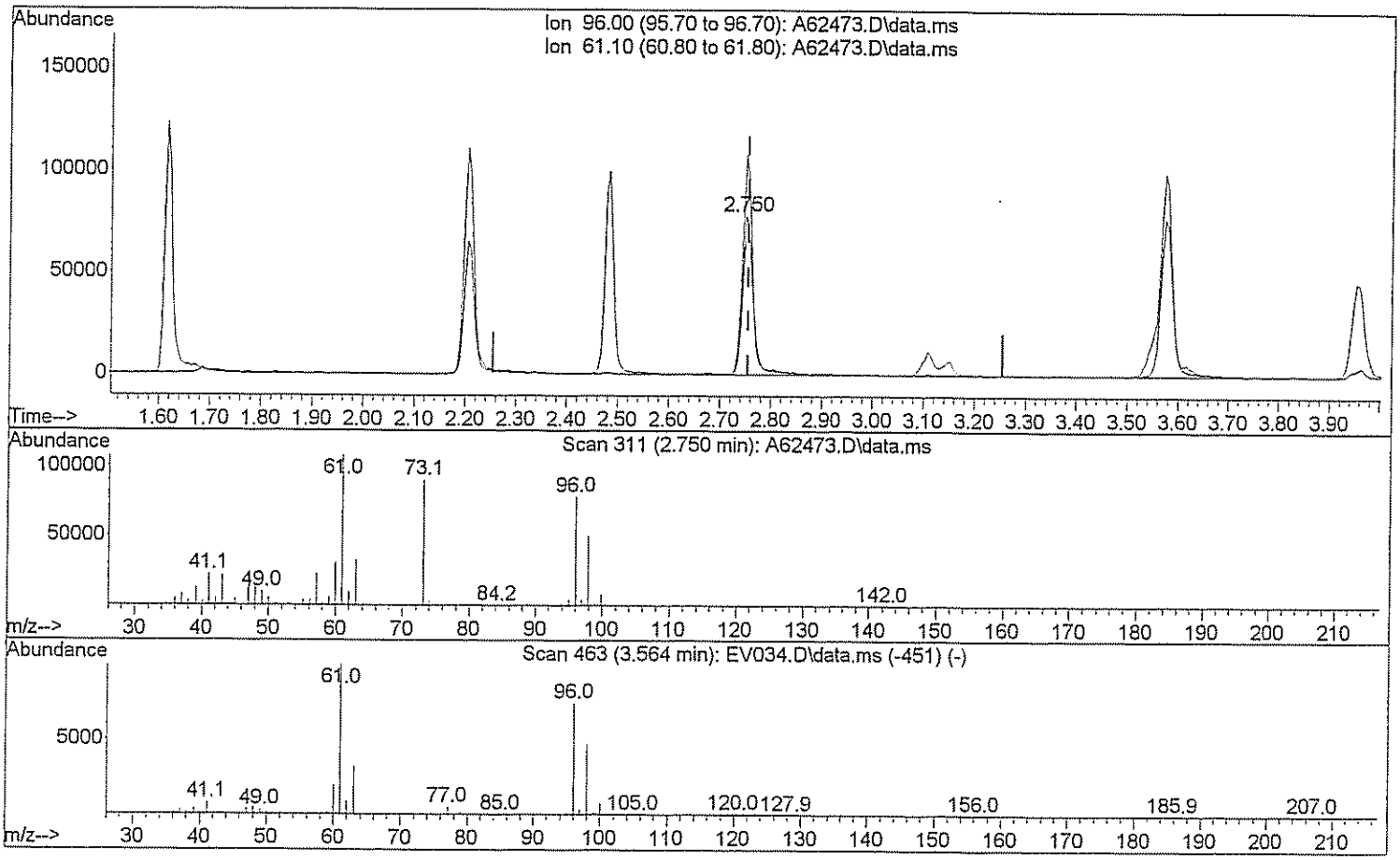
response 110412

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	134.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 10:50:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62473.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 93.16 ug/L m JM 3/24/09

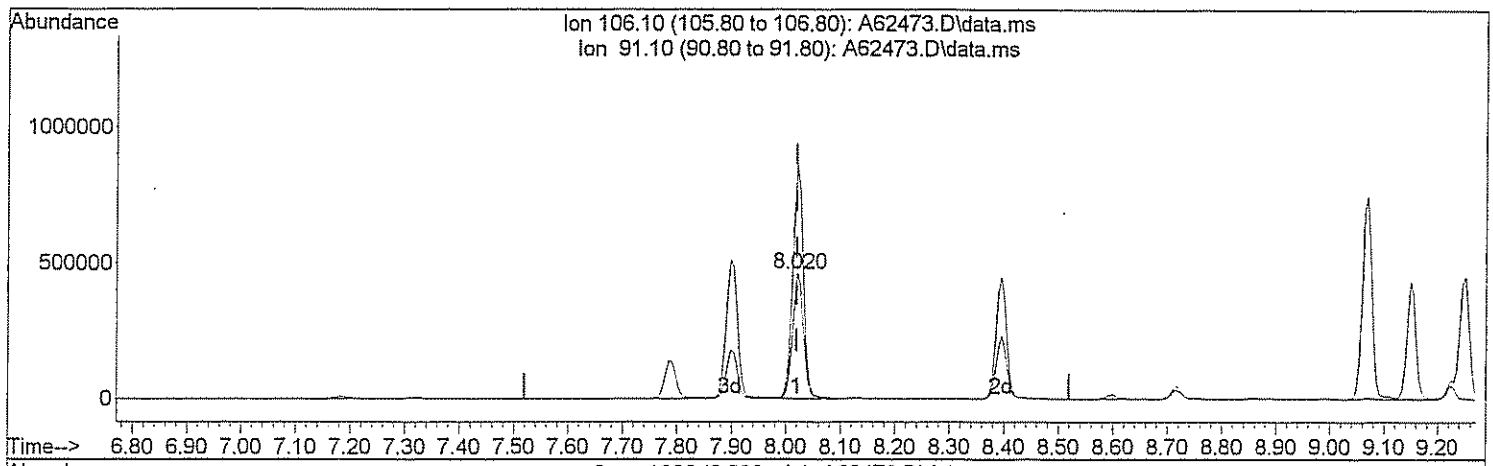
response 238433

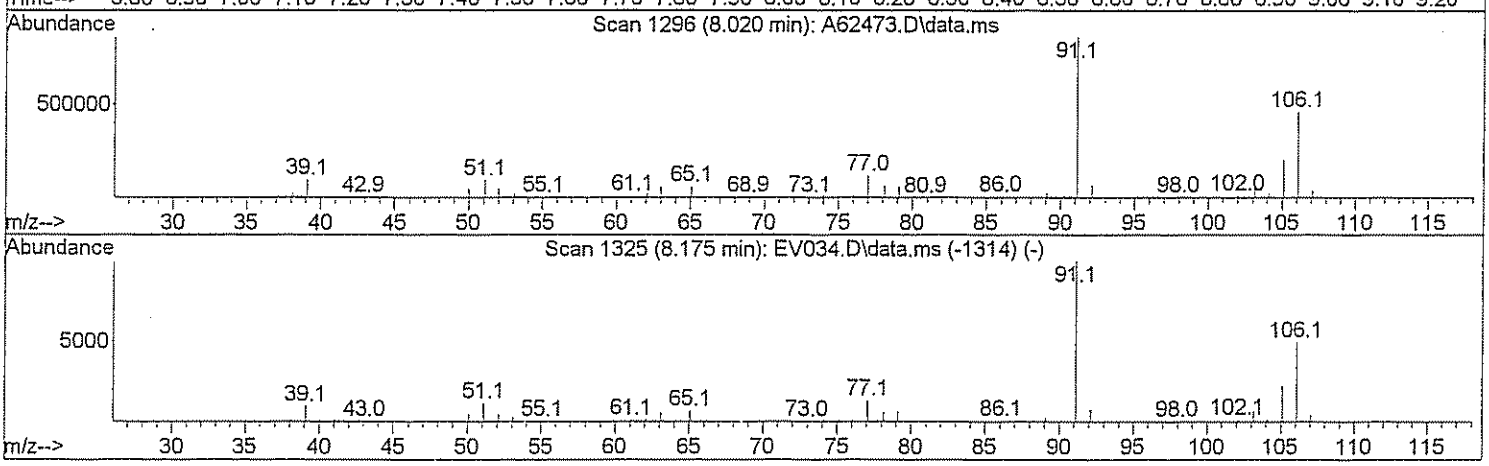
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	62.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 10:50:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration





TIC: A62473.D\data.ms

(72) Xylene (Total)

8.020min (-0.000) 107.72 ug/L

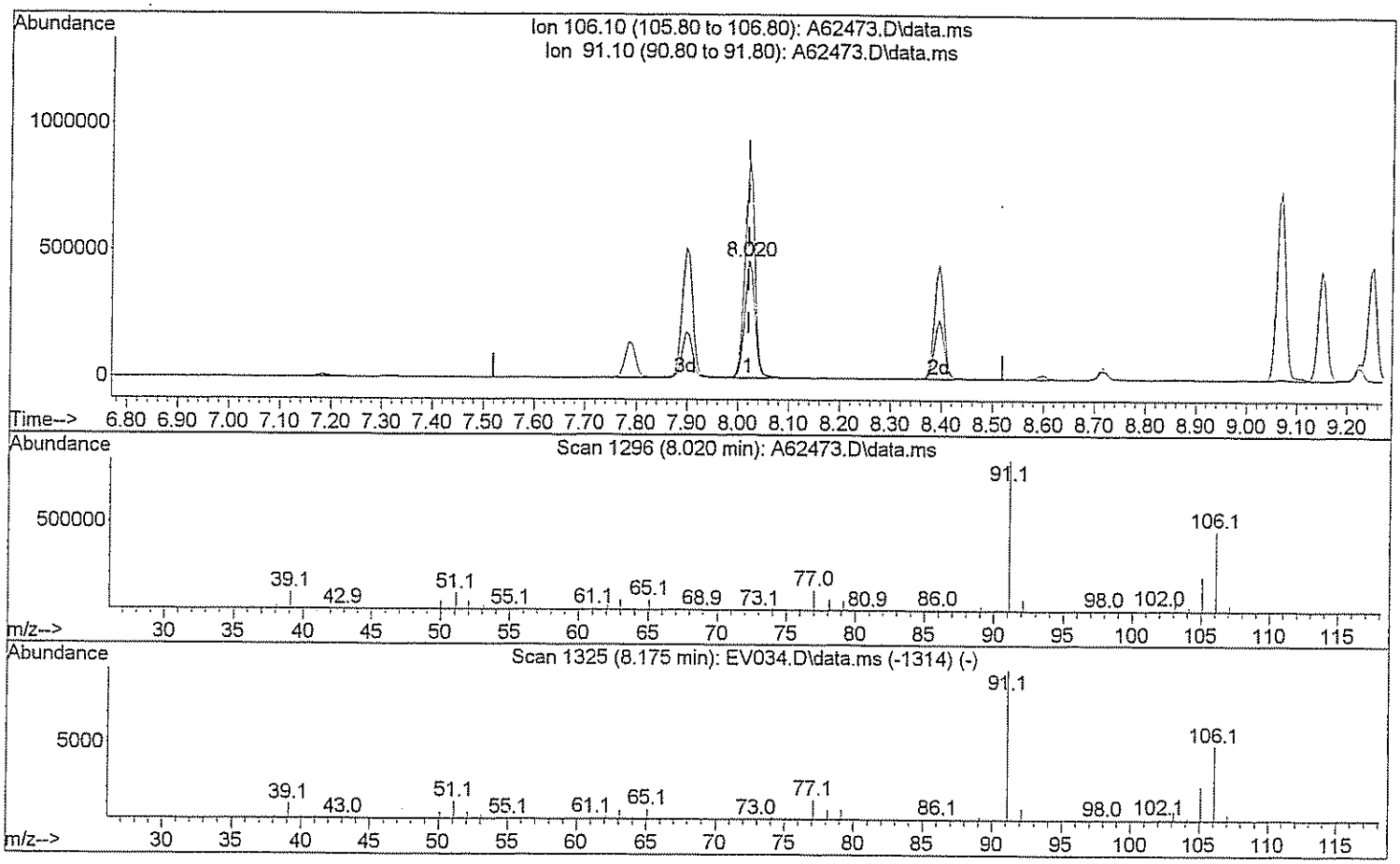
response 629169

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	186.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C1\
Data File : A62473.D
Acq On : 24 Mar 2009 10:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 10:50:22 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62473.D\data.ms

(72) Xylene (Total)

8.020min (-0.000) 160.36 ug/L m JW 3/24/09

response 936589

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.26#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108792
Sample Volume :	5	Lab File ID :	A62474.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	53	
71-55-6	1,1,1-Trichloroethane	59	
79-34-5	1,1,2,2-Tetrachloroethane	48	
79-00-5	1,1,2-Trichloroethane	50	
75-34-3	1,1-Dichloroethane	61	
75-35-4	1,1-Dichloroethene	53	
563-58-6	1,1-Dichloropropene	53	
87-61-6	1,2,3-Trichlorobenzene	71	
96-18-4	1,2,3-Trichloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	72	
95-63-6	1,2,4-Trimethylbenzene	57	
96-12-8	1,2-Dibromo-3-Chloropropane	52	
95-50-1	1,2-Dichlorobenzene	67	
107-06-2	1,2-Dichloroethane	52	
78-87-5	1,2-Dichloropropane	50	
108-67-8	1,3,5-trimethylbenzene	58	
541-73-1	1,3-Dichlorobenzene	65	
142-28-9	1,3-Dichloropropane	41	
106-46-7	1,4-Dichlorobenzene	64	
594-20-7	2,2-Dichloropropane	53	
78-93-3	2-Butanone	110	
95-49-8	2-Chlorotoluene	63	
591-78-6	2-Hexanone	76	
106-43-4	4-Chlorotoluene	60	
99-87-6	4-Isopropyltoluene	65	
108-10-1	4-Methyl-2-Pentanone	71	
67-64-1	Acetone	130	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	63	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108792
Sample Volume :	5	Lab File ID :	A62474.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	59	
75-27-4	Bromodichloromethane	51	
75-25-2	Bromoform	47	
74-83-9	Bromomethane	58	
75-15-0	Carbon Disulfide	49	
56-23-5	Carbon Tetrachloride	56	
108-90-7	Chlorobenzene	55	
75-00-3	Chloroethane	44	
67-66-3	Chloroform	55	
74-87-3	Chloromethane	53	
110-82-7	Cyclohexane	47	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	56	
75-71-8	Dichlorodifluoromethane	43	
100-41-4	Ethylbenzene	51	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	56	
87-68-3	Hexachlorobutadiene	68	
98-82-8	Isopropylbenzene	57	
79-20-9	Methyl Acetate	60	
108-87-2	Methylcyclohexane	48	
75-09-2	Methylene Chloride	52	
91-20-3	Naphthalene	62	
135-98-8	Sec-Butylbenzene	59	
100-42-5	Styrene	53	
127-18-4	Tetrachloroethylene	59	
108-88-3	Toluene	56	
79-01-6	Trichloroethene	51	
75-69-4	Trichlorofluoromethane	58	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108792

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108792
Sample Volume :	5	Lab File ID :	A62474.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	4.8	
75-01-4	Vinyl Chloride	45	
156-59-2	cis-1,2-Dichloroethene	54	
10061-01-5	cis-1,3-Dichloropropene	42	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	59	
103-65-1	n-Propylbenzene	56	
95-47-6	o-Xylene	55	
98-06-6	tert-Butylbenzene	62	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	54	
10061-02-6	trans-1,3-dichloropropene	47	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62474.D
Acq On : 24 Mar 2009 10:46
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 24 17:07:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	283470	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.682	114	242329	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.779	117	289118	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	80693	51.53	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.06%				
53) Toluene-d8	6.148	98	270580	50.31	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.62%				
75) 4-Bromofluorobenzene	8.881	95	149911	52.25	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 104.50%				
91) 1,2-Dichlorobenzene-d4	10.085	152	205755	65.74	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 131.48%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.205	85	27483	42.85	ug/L		94
3) Chloromethane	1.349	50	42809	53.29	ug/L		98
4) Vinyl chloride	1.408	62	53756	44.60	ug/L		91
5) Bromomethane	1.643	94	21121	58.04	ug/L		89
6) Chloroethane	1.713	64	35687	44.36	ug/L		97
7) Trichlorofluoromethane	1.863	101	78667	57.95	ug/L		96
8) Ethyl Ether	2.061	59	53577	50.90	ug/L		96
9) Freon 113	2.194	101	53932	56.08	ug/L		94
10) Acrolein	2.205	56	50308	283.20	ug/L	#	37
11) Tert-Butyl alcohol	2.681	59	70793	1236.15	ug/L	#	47
12) 1,1-Dichloroethene	2.226	96	54921	52.68	ug/L		88
13) Iodomethane	2.349	142	96219	103.29	ug/L		96
14) Acetonitrile	2.499	40	415851	623.48	ug/L	#	1
15) Methylene chloride	2.606	84	66444	52.34	ug/L		94
16) Trans-1,2-dichloroethene	2.772	96	61619	54.35	ug/L		88
17) Isopropyl ether	3.104	45	247080	54.17	ug/L		96
18) 1,1-Dichloroethane	3.120	63	122675	60.77	ug/L		96
19) Acetone	2.312	43	40794	128.96	ug/L		92
20) Methyl Acetate	4.265	43	37781	60.39	ug/L	#	100
21) MTBE	2.751	73	187602	57.18	ug/L		100
22) Carbon disulfide	2.371	76	156672	49.46	ug/L		100
24) Acrylonitrile	2.847	53	102624	315.63	ug/L		96
25) Chloroprene	3.163	53	91555	47.42	ug/L		89
26) n-Heptane	4.559	71	2145	2.18	ug/L	#	1
27) 2,2-Dichloropropane	3.558	77	87457	53.04	ug/L	#	77
28) Cis-1,2-dichloroethene	3.585	96	72844	54.03	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62474.D
Acq On : 24 Mar 2009 10:46
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 24 17:07:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.585	96	139375m	113.21	ug/L		
30) Propionitrile	3.740	54	73969	412.27	ug/L		95
31) Bromochloromethane	3.799	128	38649	59.03	ug/L		81
32) Tetrahydrofuran	3.623	72	15231	45.21	ug/L	#	1
33) Chloroform	3.847	83	125765	55.00	ug/L		99
34) Cyclohexane	3.949	56	94447	46.63	ug/L		88
35) 1,1,1-Trichloroethane	3.965	97	103508	59.40	ug/L		96
36) Carbon tetrachloride	4.072	117	90583	56.39	ug/L		98
37) Methylcyclohexane	4.998	83	92230	47.61	ug/L		91
38) Isobutyl Alcohol	4.265	43	37781	419.15	ug/L		96
41) 2-Butanone	3.623	43	72817	107.74	ug/L		92
42) 1,1-Dichloropropene	4.109	75	84323	53.40	ug/L		100
43) Vinyl Acetate	2.686	43	8307	4.80	ug/L		96
44) Benzene	4.291	78	252474	48.33	ug/L		100
45) 1,2-Dichloroethane	4.382	62	86709	52.55	ug/L	#	86
46) Trichloroethene	4.891	95	68110	50.85	ug/L	#	71
47) 1,2-Dichloropropane	5.169	63	68244	50.23	ug/L		95
48) Methyl methacrylate	5.265	69	41856	46.77	ug/L		99
49) Dibromomethane	5.286	93	45983	55.73	ug/L		97
50) Bromodichloromethane	5.436	83	88616	50.71	ug/L	#	99
51) 2-Chloroethylvinyl ether	5.779	63	149180	163.72	ug/L		97
52) Cis-1,3-dichloropropene	5.918	75	94816	41.92	ug/L		97
54) Toluene	6.223	92	161332	56.55	ug/L		100
55) Trans-1,3-dichloropropene	6.570	75	84440	46.77	ug/L		96
56) Ethyl methacrylate	6.624	69	81051	47.96	ug/L		93
57) 1,1,2-Trichloroethane	6.779	83	50692	50.27	ug/L		90
59) 4-Methyl-2-pentanone	6.100	43	144364	71.41	ug/L		93
60) 2-Hexanone	7.068	43	104711	75.55	ug/L		97
61) Tetrachloroethene	6.795	166	89746	58.75	ug/L		100
62) 1,3-Dichloropropane	6.977	76	96663	41.26	ug/L		94
63) Dibromochloromethane	7.186	129	82332	51.18	ug/L		97
64) 1,2-Dibromoethane	7.319	107	71331	49.05	ug/L		99
65) 1-Chlorohexane	7.785	91	107853	44.93	ug/L		93
66) Chlorobenzene	7.811	112	261057	54.98	ug/L		89
67) 1,1,1,2-Tetrachloroethane	7.908	131	104892	53.06	ug/L		96
68) Ethylbenzene	7.897	91	416544	51.36	ug/L		96
69) m,p-Xylene	8.020	106	357674	106.79	ug/L		87
70) o-Xylene	8.395	106	181999	55.13	ug/L		90
71) Xylene (Total)	8.020	106	545032m	164.59	ug/L		
72) Styrene	8.421	104	295998	53.35	ug/L		92
73) Bromoform	8.598	173	60612	47.03	ug/L		99
74) Isopropylbenzene	8.716	105	420201	57.30	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62474.D
Acq On : 24 Mar 2009 10:46
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 24 17:07:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

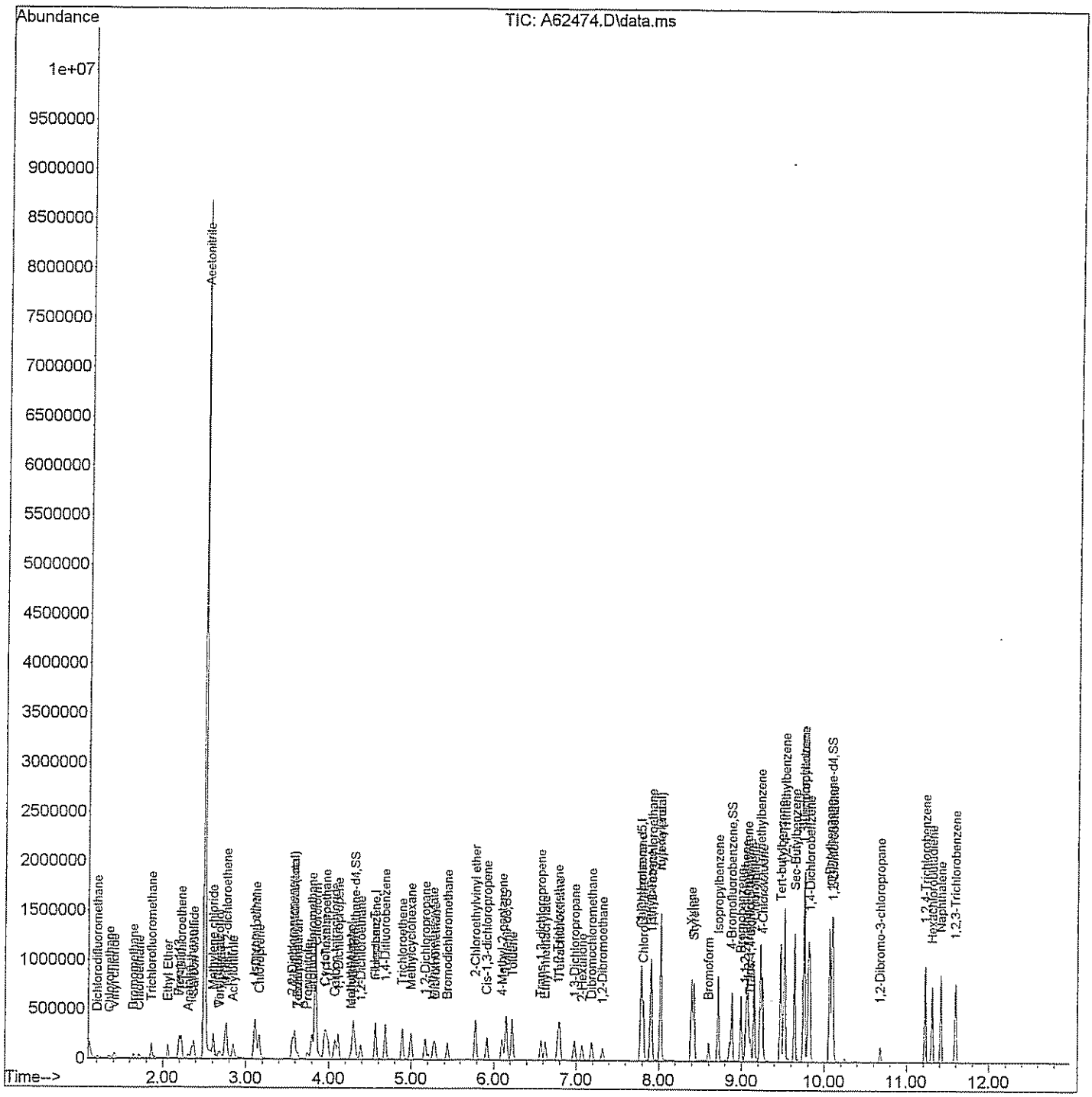
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	131223	62.62 ug/L	99
77) 1,1,2,2-Tetrachloroethane	9.047	83	107256	47.87 ug/L	97
78) 1,2,3-Trichloropropane	9.085	110	35352	52.87 ug/L	98
79) n-Propylbenzene	9.069	91	554100	55.78 ug/L	94
80) Trans-1,4-dichloro-2-b...	9.106	53	30145	47.35 ug/L #	25
81) 2-Chlorotoluene	9.149	126	134640	63.20 ug/L	86
82) 4-Chlorotoluene	9.251	126	136129	60.09 ug/L	83
83) 1,3,5-Trimethylbenzene	9.224	105	447720	58.19 ug/L	93
84) Tert-butylbenzene	9.470	119	425807	61.96 ug/L	93
86) 1,2,4-Trimethylbenzene	9.518	105	470336	57.46 ug/L	93
87) Sec-Butylbenzene	9.641	105	627774	58.99 ug/L	93
88) 1,3-Dichlorobenzene	9.748	146	300859	64.63 ug/L	99
89) 4-Isopropyltoluene	9.753	119	591778	64.81 ug/L	95
90) 1,4-Dichlorobenzene	9.823	146	297143	63.94 ug/L	96
92) 1,2-Dichlorobenzene	10.101	146	301047	67.31 ug/L	98
93) n-Butylbenzene	10.058	91	509848	58.94 ug/L #	89
94) 1,2-Dibromo-3-chloropr...	10.679	75	22854	51.65 ug/L #	63
95) 1,2,4-Trichlorobenzene	11.225	180	219058	71.61 ug/L	98
96) Hexachlorobutadiene	11.305	225	93267	68.59 ug/L	95
97) Naphthalene	11.412	128	521774	62.37 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	193142	70.64 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62474.D
Acq On : 24 Mar 2009 10:46
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

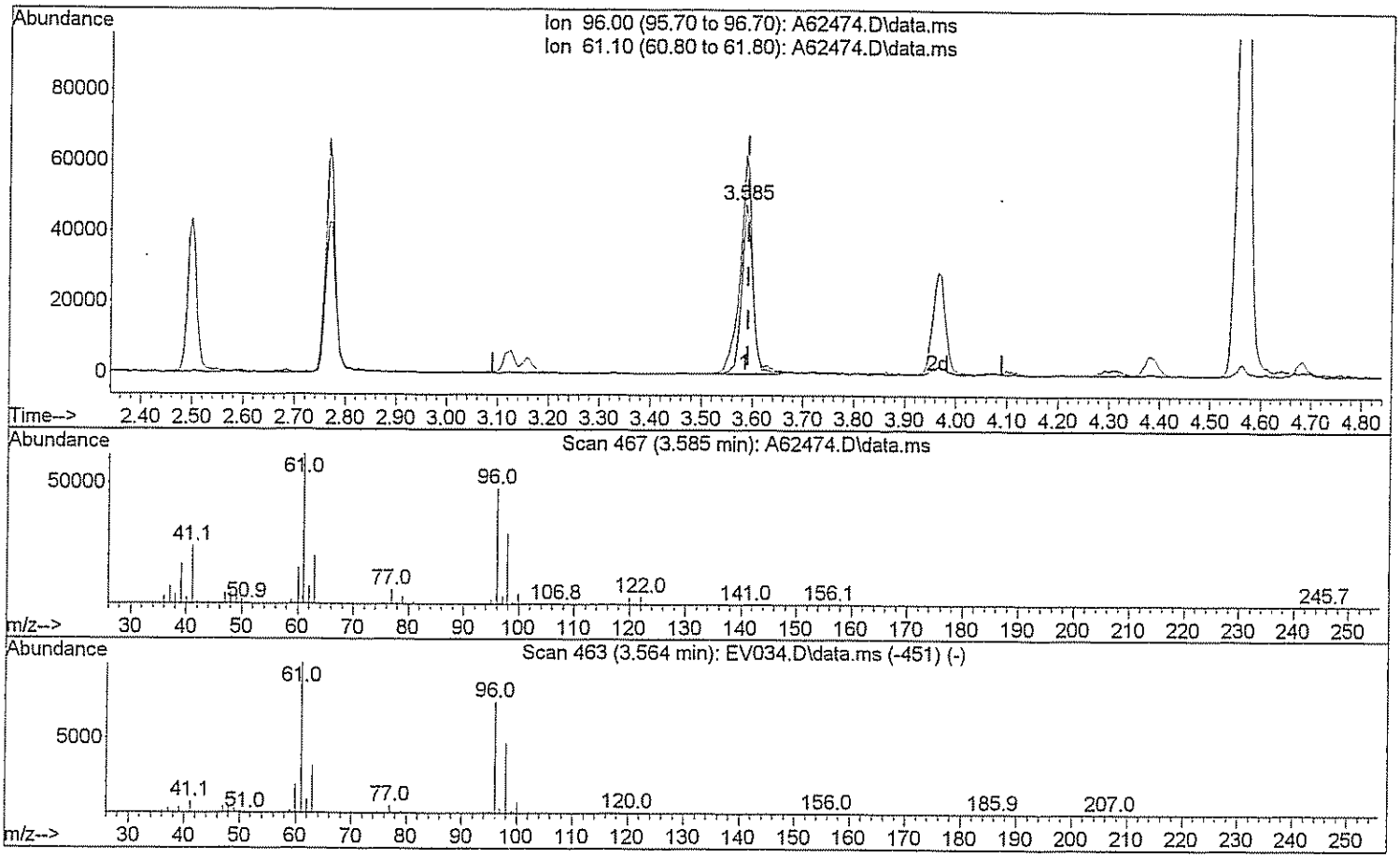
Quant Time: Mar 24 17:07:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62474.D
Acq On : 24 Mar 2009 10:46
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 24 17:02:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62474.D\data.ms

(29) 1,2-dichloroethene(total)

3.585min (-0.006) 59.17 ug/L

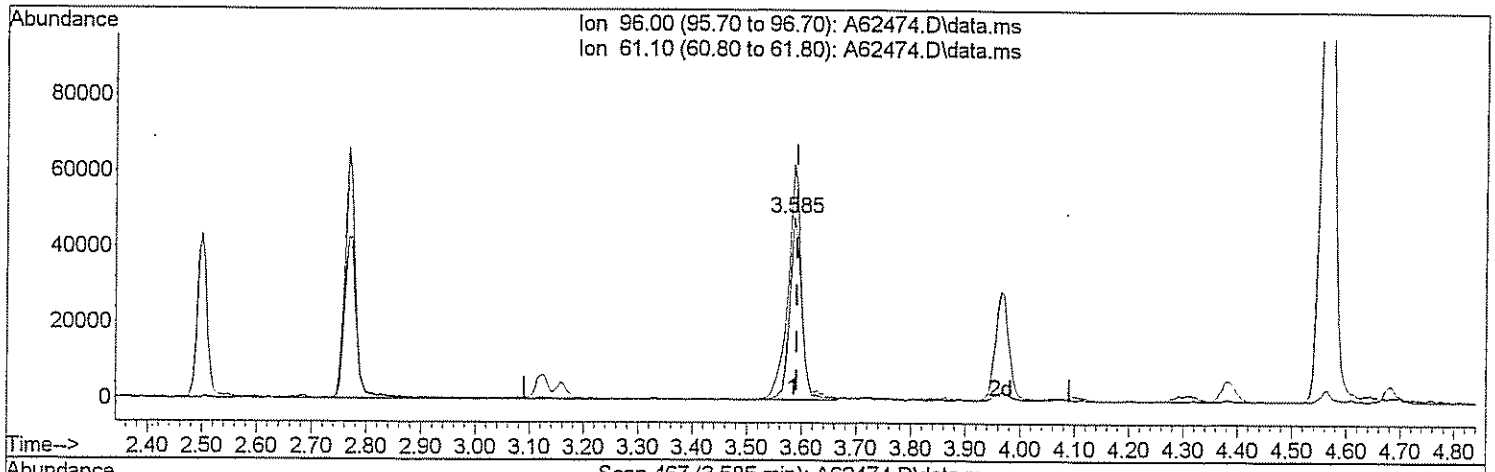
response 72844

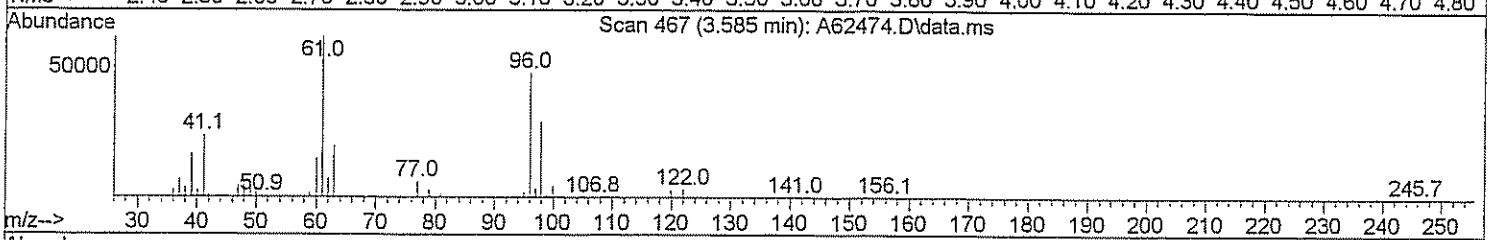
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	142.67
0.00	0.00	0.00
0.00	0.00	0.00

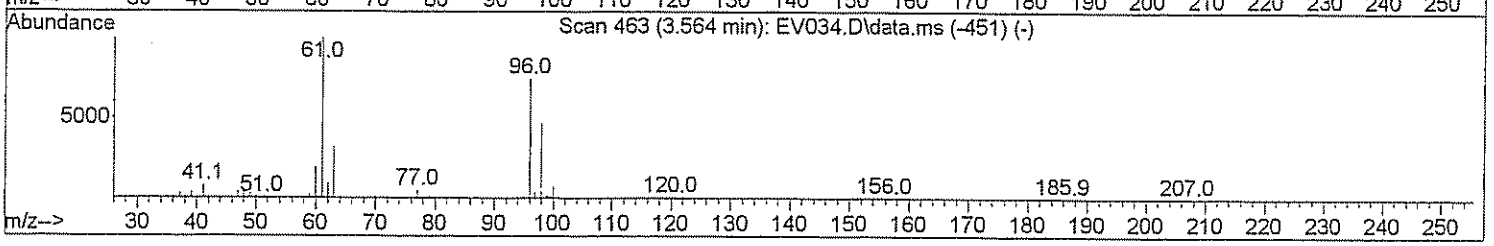
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62474.D
Acq On : 24 Mar 2009 10:46
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 24 17:02:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration







TIC: A62474.D\data.ms

(29) 1,2-dichloroethene(total)

3.585min (-0.006) 113.21 ug/L m AN 3/24/09

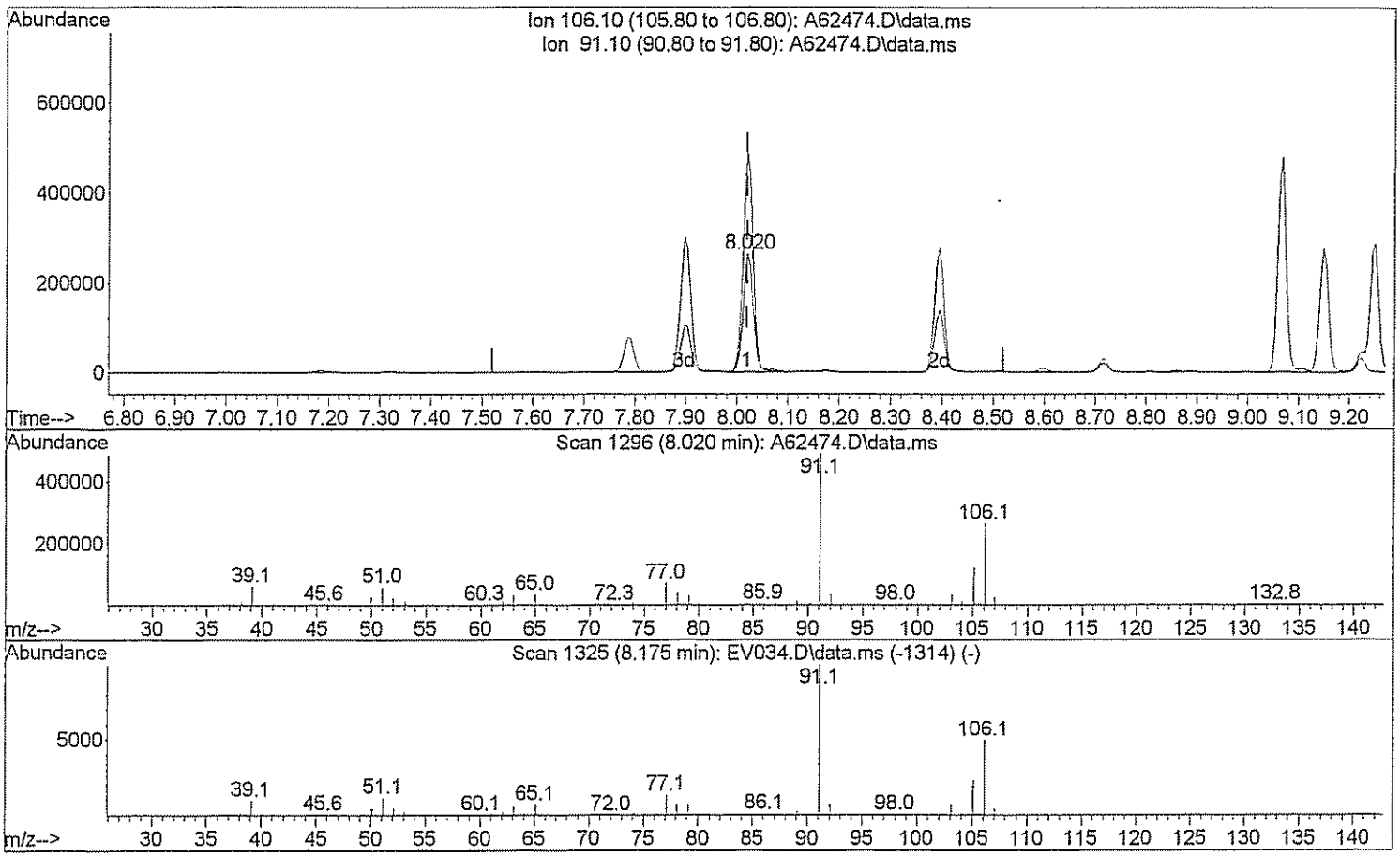
response 139375

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	74.56#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62474.D
Acq On : 24 Mar 2009 10:46
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 24 17:02:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62474.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 108.01 ug/L

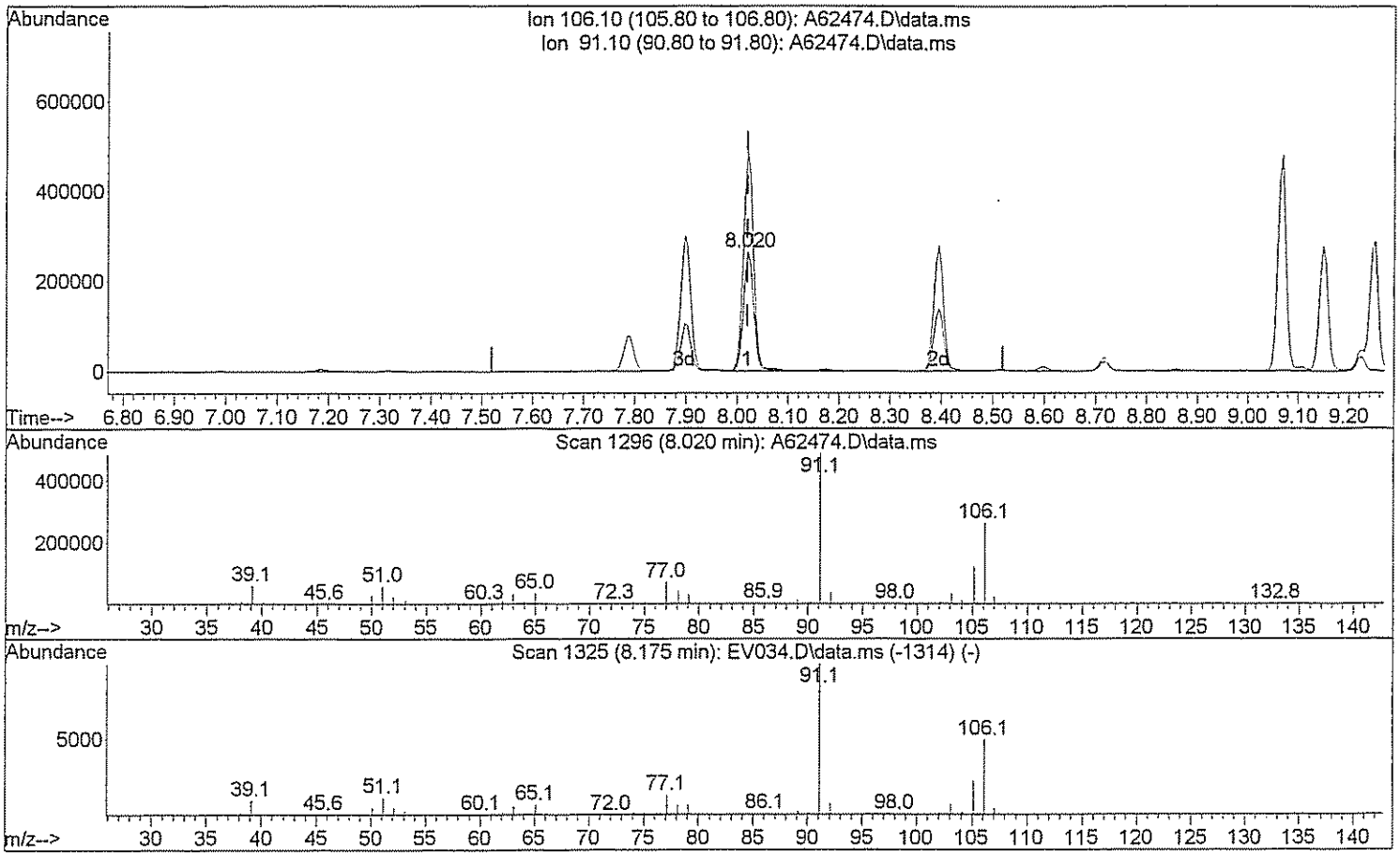
response 357674

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	187.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032409C2\
Data File : A62474.D
Acq On : 24 Mar 2009 10:46
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 24 17:02:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62474.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 164.59 ug/L m SM 3/24/09

response 545032

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	123.15#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108804
Sample Volume :	5	Lab File ID :	A62508.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	49	
71-55-6	1,1,1-Trichloroethane	56	
79-34-5	1,1,2,2-Tetrachloroethane	45	
79-00-5	1,1,2-Trichloroethane	45	
75-34-3	1,1-Dichloroethane	53	
75-35-4	1,1-Dichloroethene	51	
563-58-6	1,1-Dichloropropene	49	
87-61-6	1,2,3-Trichlorobenzene	56	
96-18-4	1,2,3-Trichloropropane	47	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	49	
96-12-8	1,2-Dibromo-3-Chloropropane	44	
95-50-1	1,2-Dichlorobenzene	57	
107-06-2	1,2-Dichloroethane	47	
78-87-5	1,2-Dichloropropane	44	
108-67-8	1,3,5-trimethylbenzene	50	
541-73-1	1,3-Dichlorobenzene	56	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	56	
594-20-7	2,2-Dichloropropane	56	
78-93-3	2-Butanone	100	
95-49-8	2-Chlorotoluene	56	
591-78-6	2-Hexanone	75	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	54	
108-10-1	4-Methyl-2-Pentanone	67	
67-64-1	Acetone	110	
71-43-2	Benzene	44	
108-86-1	Bromobenzene	55	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108804
Sample Volume :	5	Lab File ID :	A62508.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	58	
75-27-4	Bromodichloromethane	46	
75-25-2	Bromoform	47	
74-83-9	Bromomethane	74	
75-15-0	Carbon Disulfide	51	
56-23-5	Carbon Tetrachloride	56	
108-90-7	Chlorobenzene	51	
75-00-3	Chloroethane	49	
67-66-3	Chloroform	51	
74-87-3	Chloromethane	69	
110-82-7	Cyclohexane	46	
124-48-1	Dibromochloromethane	50	
74-95-3	Dibromomethane	49	
75-71-8	Dichlorodifluoromethane	43	
100-41-4	Ethylbenzene	47	
106-93-4	Ethylene DiBromide	48	
76-13-1	Freon 113	56	
87-68-3	Hexachlorobutadiene	52	
98-82-8	Isopropylbenzene	50	
79-20-9	Methyl Acetate	69	
108-87-2	Methylcyclohexane	47	
75-09-2	Methylene Chloride	51	
91-20-3	Naphthalene	50	
135-98-8	Sec-Butylbenzene	50	
100-42-5	Styrene	49	
127-18-4	Tetrachloroethylene	50	
108-88-3	Toluene	53	
79-01-6	Trichloroethene	44	
75-69-4	Trichlorofluoromethane	65	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108804

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108804
Sample Volume :	5	Lab File ID :	A62508.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	160	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	51	
10061-01-5	cis-1,3-Dichloropropene	40	
136777-61-2	m,p-Xylene	98	
104-51-8	n-Butylbenzene	48	
103-65-1	n-Propylbenzene	49	
95-47-6	o-Xylene	50	
98-06-6	tert-Butylbenzene	52	
1634-04-4	tert-butyl methyl ether	54	
156-60-5	trans-1,2-dichloroethene	54	
10061-02-6	trans-1,3-dichloropropene	46	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62508.D
Acq On : 25 Mar 2009 11:47
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 25 14:43:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	370357	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	325733	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.779	117	374869	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	107047	52.32	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.64%				
53) Toluene-d8	6.148	98	344433	47.64	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 95.28%				
75) 4-Bromofluorobenzene	8.881	95	192455	51.73	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 103.46%				
91) 1,2-Dichlorobenzene-d4	10.085	152	240856	59.35	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	35787	42.70	ug/L		93
3) Chloromethane	1.354	50	72637	69.21	ug/L		97
4) Vinyl chloride	1.419	62	74480	47.02	ug/L		96
5) Bromomethane	1.649	94	35036	73.69	ug/L		93
6) Chloroethane	1.718	64	51330	48.84	ug/L		98
7) Trichlorofluoromethane	1.868	101	114909	64.79	ug/L		96
8) Ethyl Ether	2.066	59	66977	48.70	ug/L		96
9) Freon 113	2.205	101	70164	55.84	ug/L		89
10) Acrolein	2.210	56	62334	271.28	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	115747	1378.21	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	69553	51.06	ug/L		91
13) Iodomethane	2.355	142	126823	104.21	ug/L		97
14) Acetonitrile	2.505	40	537432	617.36	ug/L	#	1
15) Methylene chloride	2.612	84	84686	51.12	ug/L		94
16) Trans-1,2-dichloroethene	2.772	96	80266	54.19	ug/L		83
17) Isopropyl ether	3.109	45	285731	47.95	ug/L		98
18) 1,1-Dichloroethane	3.125	63	140948	53.44	ug/L		98
19) Acetone	2.317	43	44121	112.86	ug/L		93
20) Methyl Acetate	4.265	43	63189	68.63	ug/L	#	100
21) MTBE	2.756	73	231254	53.95	ug/L		100
22) Carbon disulfide	2.376	76	213380	51.49	ug/L		100
24) Acrylonitrile	2.852	53	113704	277.02	ug/L		96
25) Chloroprene	3.163	53	109483	43.40	ug/L		87
26) n-Heptane	4.570	71	2979	2.31	ug/L	#	1
27) 2,2-Dichloropropane	3.569	77	120131	55.77	ug/L	#	80
28) Cis-1,2-dichloroethene	3.591	96	89394	50.75	ug/L		99

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62508.D
Acq On : 25 Mar 2009 11:47
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 25 14:43:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.772	96	171284m	106.49 ug/L		
30) Propionitrile	3.746	54	97560	416.19 ug/L		98
31) Bromochloromethane	3.799	128	49599	57.98 ug/L		79
32) Tetrahydrofuran	3.623	72	16813	38.20 ug/L	#	22
33) Chloroform	3.847	83	152579	51.07 ug/L		98
34) Cyclohexane	3.949	56	122648	46.35 ug/L	#	87
35) 1,1,1-Trichloroethane	3.970	97	127304	55.92 ug/L		98
36) Carbon tetrachloride	4.072	117	118266	56.35 ug/L		99
37) Methylcyclohexane	5.003	83	119203	47.09 ug/L		92
38) Isobutyl Alcohol	4.265	43	63189	536.57 ug/L		96
41) 2-Butanone	3.628	43	89982	100.41 ug/L		98
42) 1,1-Dichloropropene	4.115	75	103709	48.86 ug/L		97
43) Vinyl Acetate	3.152	43	362479	155.94 ug/L		97
44) Benzene	4.291	78	307891	43.85 ug/L		100
45) 1,2-Dichloroethane	4.382	62	105135m	47.40 ug/L		
46) Trichloroethene	4.891	95	78710	43.72 ug/L	#	75
47) 1,2-Dichloropropane	5.169	63	79517	43.54 ug/L		99
48) Methyl methacrylate	5.270	69	54826	45.64 ug/L		96
49) Dibromomethane	5.286	93	54586	49.22 ug/L		99
50) Bromodichloromethane	5.436	83	108566	46.22 ug/L	#	98
51) 2-Chloroethylvinyl ether	5.784	63	181149	147.90 ug/L		93
52) Cis-1,3-dichloropropene	5.923	75	121368	40.05 ug/L		98
54) Toluene	6.223	92	203680	53.11 ug/L		100
55) Trans-1,3-dichloropropene	6.576	75	111552	45.97 ug/L		96
56) Ethyl methacrylate	6.624	69	98847	43.51 ug/L		92
57) 1,1,2-Trichloroethane	6.779	83	61246	45.19 ug/L		89
59) 4-Methyl-2-pentanone	6.100	43	176896	67.48 ug/L		95
60) 2-Hexanone	7.068	43	134174	74.67 ug/L		95
61) Tetrachloroethene	6.800	166	98329	49.64 ug/L		98
62) 1,3-Dichloropropane	6.977	76	139149	45.81 ug/L		89
63) Dibromochloromethane	7.191	129	104641	50.17 ug/L		98
64) 1,2-Dibromoethane	7.319	107	90363	47.93 ug/L		99
65) 1-Chlorohexane	7.790	91	128581	41.31 ug/L		95
66) Chlorobenzene	7.811	112	312281	50.72 ug/L		86
67) 1,1,1,2-Tetrachloroethane	7.908	131	125110	49.09 ug/L		97
68) Ethylbenzene	7.897	91	491448	46.74 ug/L		97
69) m,p-Xylene	8.025	106	424168	97.68 ug/L		85
70) o-Xylene	8.395	106	213623	49.91 ug/L		87
71) Xylene (Total)	8.025	106	639260m	148.88 ug/L		
72) Styrene	8.421	104	352210	48.96 ug/L		96
73) Bromoform	8.598	173	78514	46.99 ug/L		97
74) Isopropylbenzene	8.716	105	475641	50.02 ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62508.D
Acq On : 25 Mar 2009 11:47
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 25 14:43:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

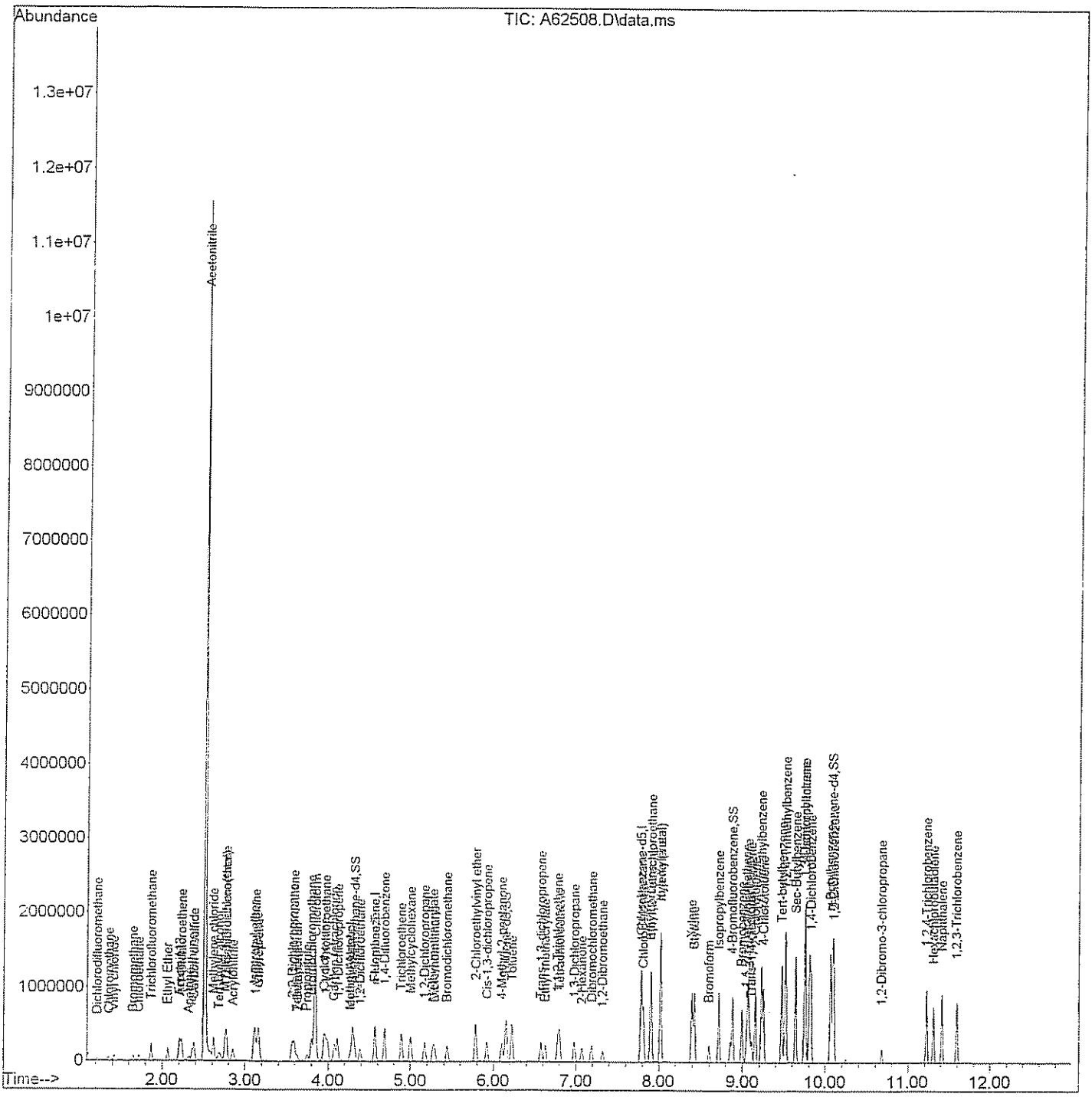
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	150067	55.23 ug/L	100
77) 1,1,2,2-Tetrachloroethane	9.047	83	130191	44.82 ug/L	100
78) 1,2,3-Trichloropropane	9.085	110	40702	46.95 ug/L	99
79) n-Propylbenzene	9.069	91	626504	48.64 ug/L	94
80) Trans-1,4-dichloro-2-b...	9.106	53	38518	46.66 ug/L #	1
81) 2-Chlorotoluene	9.149	126	153545	55.59 ug/L	86
82) 4-Chlorotoluene	9.251	126	158653	54.01 ug/L	77
83) 1,3,5-Trimethylbenzene	9.224	105	497640	49.88 ug/L	93
84) Tert-butylbenzene	9.470	119	467756	52.49 ug/L	94
86) 1,2,4-Trimethylbenzene	9.518	105	524855	49.45 ug/L	90
87) Sec-Butylbenzene	9.641	105	686736	49.77 ug/L	94
88) 1,3-Dichlorobenzene	9.748	146	339539	56.25 ug/L	99
89) 4-Isopropyltoluene	9.753	119	643873	54.38 ug/L	95
90) 1,4-Dichlorobenzene	9.823	146	336285	55.81 ug/L	100
92) 1,2-Dichlorobenzene	10.101	146	328804	56.70 ug/L	99
93) n-Butylbenzene	10.058	91	533958	47.60 ug/L #	86
94) 1,2-Dibromo-3-chloropr...	10.679	75	25236	43.99 ug/L #	67
95) 1,2,4-Trichlorobenzene	11.225	180	220117	55.50 ug/L	99
96) Hexachlorobutadiene	11.305	225	91889	52.12 ug/L	99
97) Naphthalene	11.412	128	547001	50.43 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	196799	55.51 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62508.D
Acq On : 25 Mar 2009 11:47
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

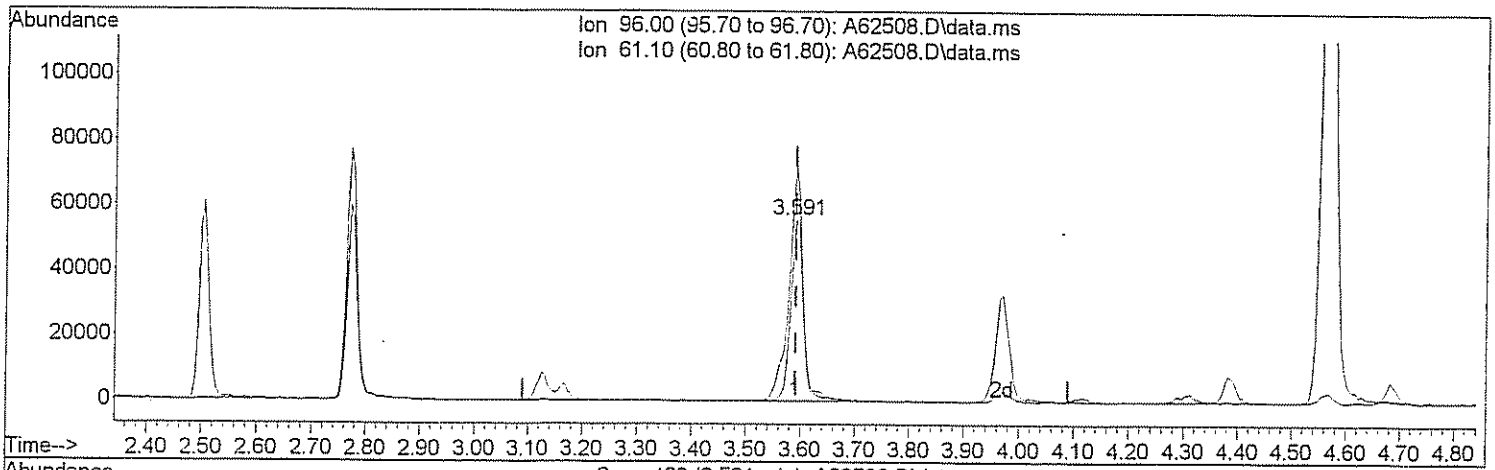
Quant Time: Mar 25 14:43:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

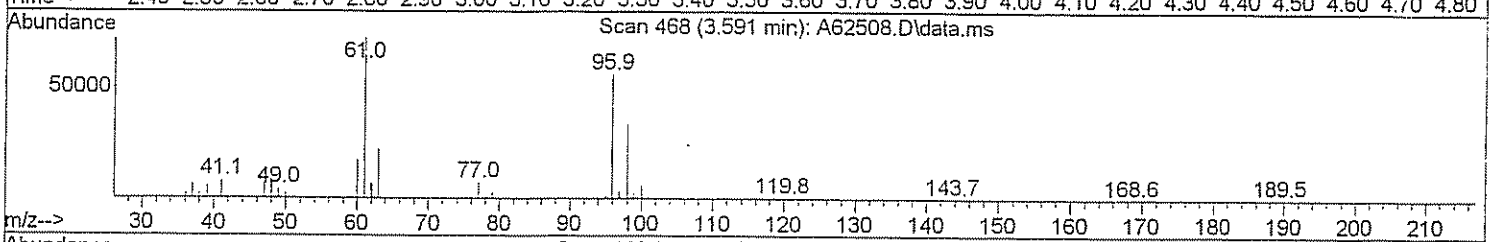


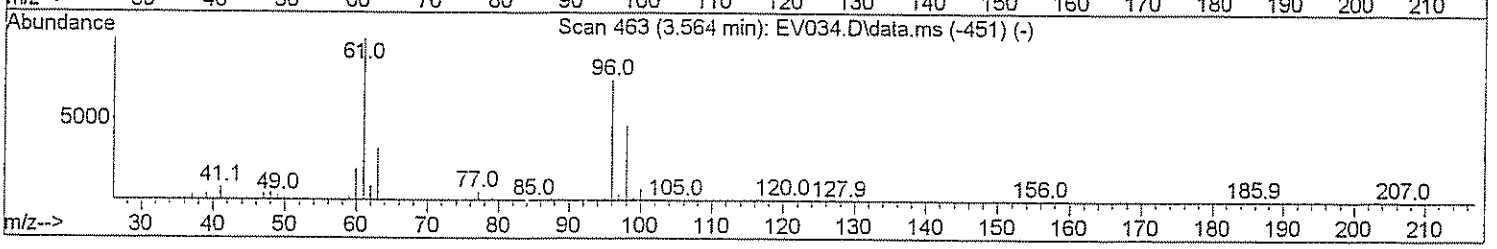
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62508.D
Acq On : 25 Mar 2009 11:47
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 25 12:32:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration







TIC: A62508.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (-0.000) 55.58 ug/L

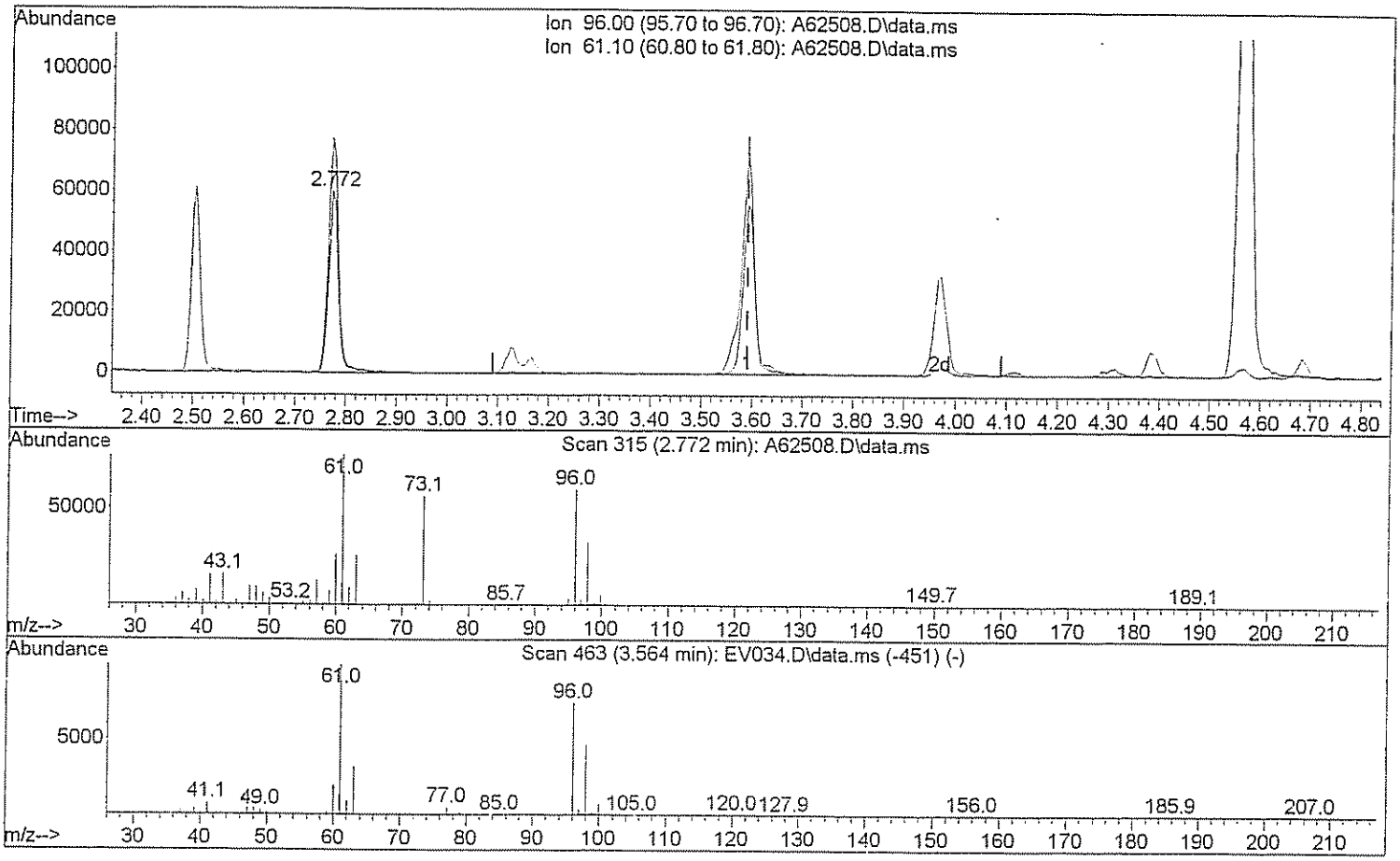
response 89394

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	144.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62508.D
Acq On : 25 Mar 2009 11:47
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 25 12:32:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62508.D\data.ms

(29) 1,2-dichloroethene(total)

2.772min (-0.819) 106.49 ug/L m

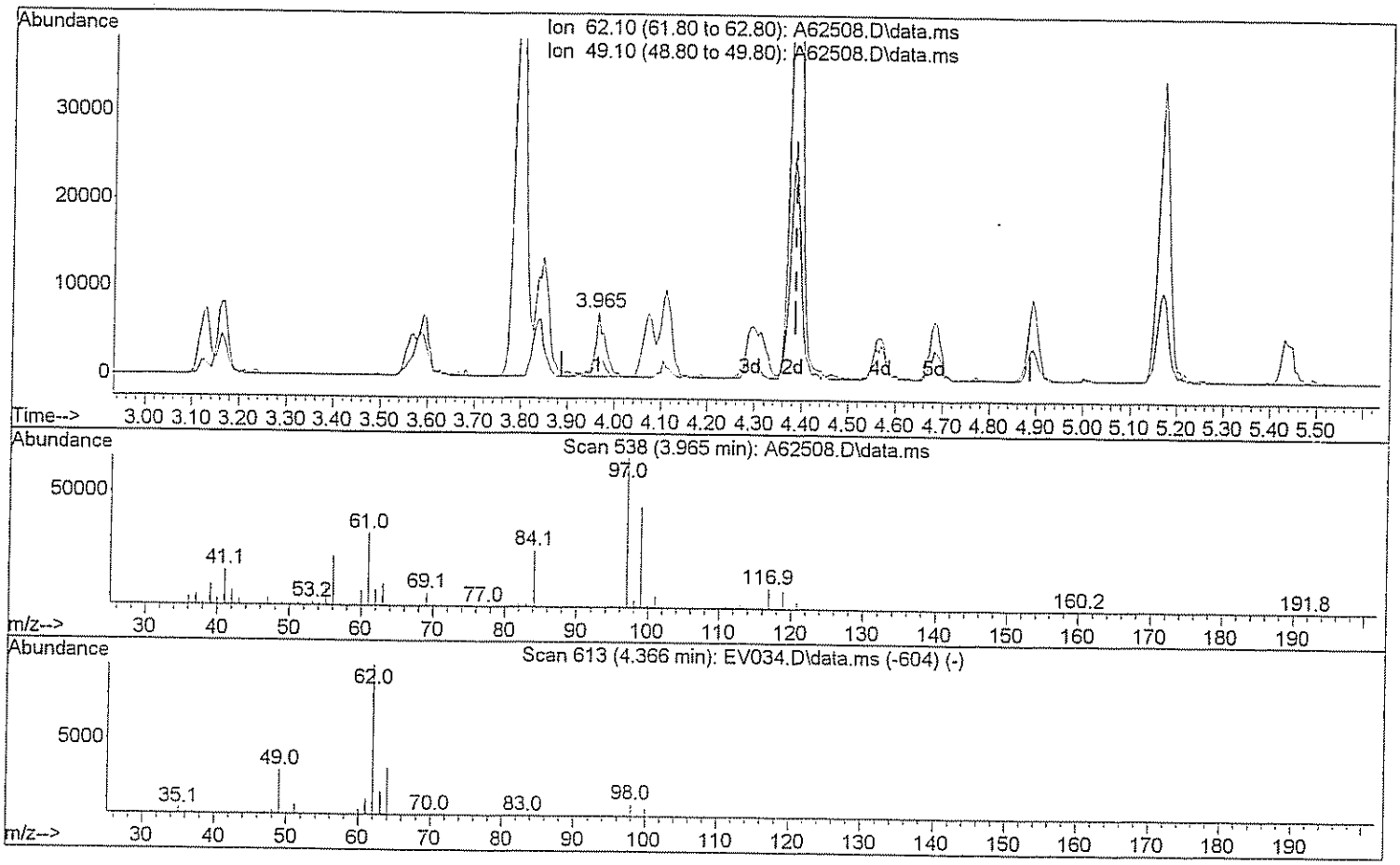
response 171284

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	75.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62508.D
Acq On : 25 Mar 2009 11:47
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 25 12:32:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62508.D\data.ms

(45) 1,2-Dichloroethane

3.965min (-0.423) 4.64 ug/L

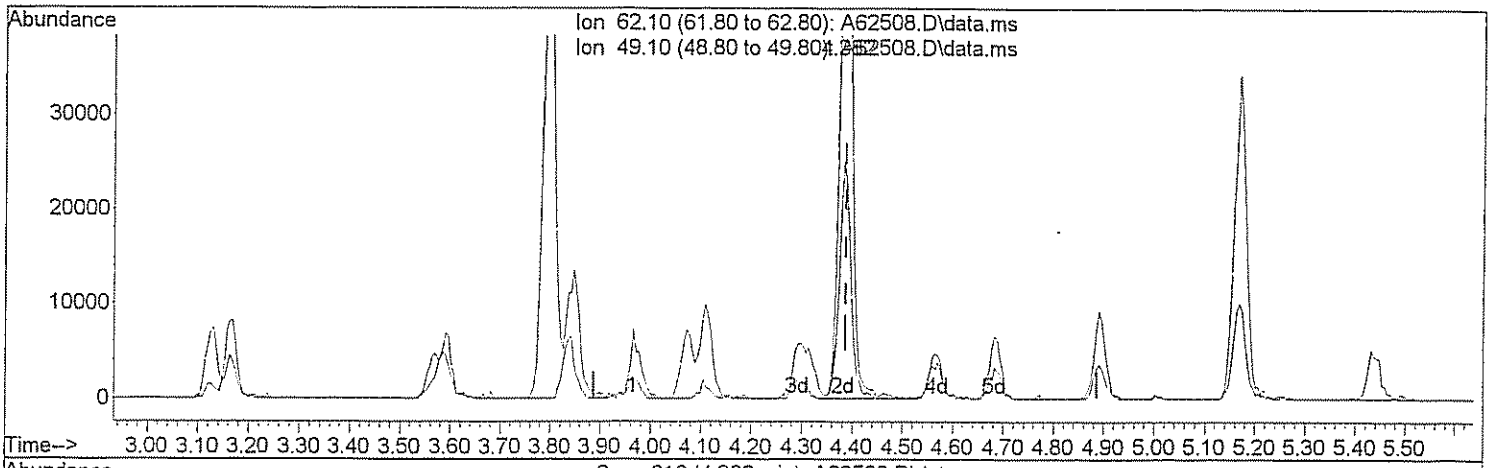
response 10296

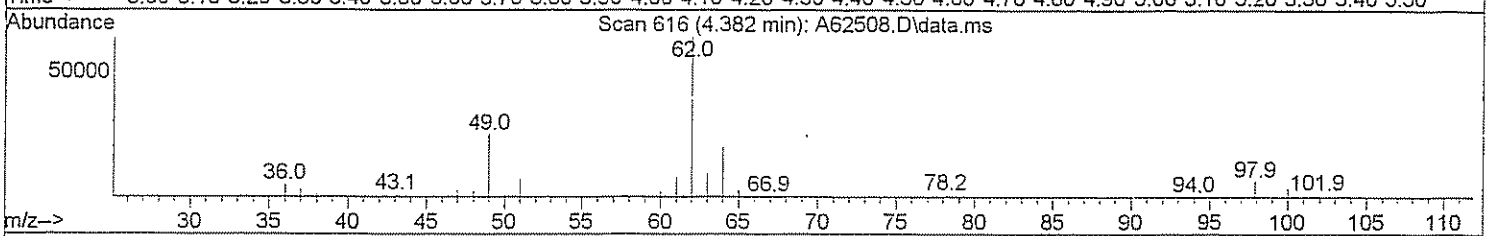
Ion	Exp%	Act%
62.10	100	100
49.10	28.90	29.80
0.00	0.00	0.00
0.00	0.00	0.00

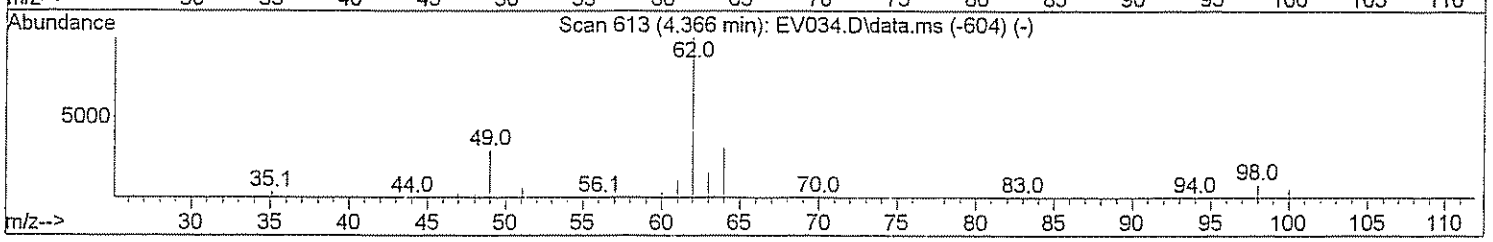
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62508.D
Acq On : 25 Mar 2009 11:47
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 25 12:32:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration







TIC: A62508.D\data.ms

(45) 1,2-Dichloroethane

4.382min (-0.005) 47.40 ug/L m

Dm 3/25/09

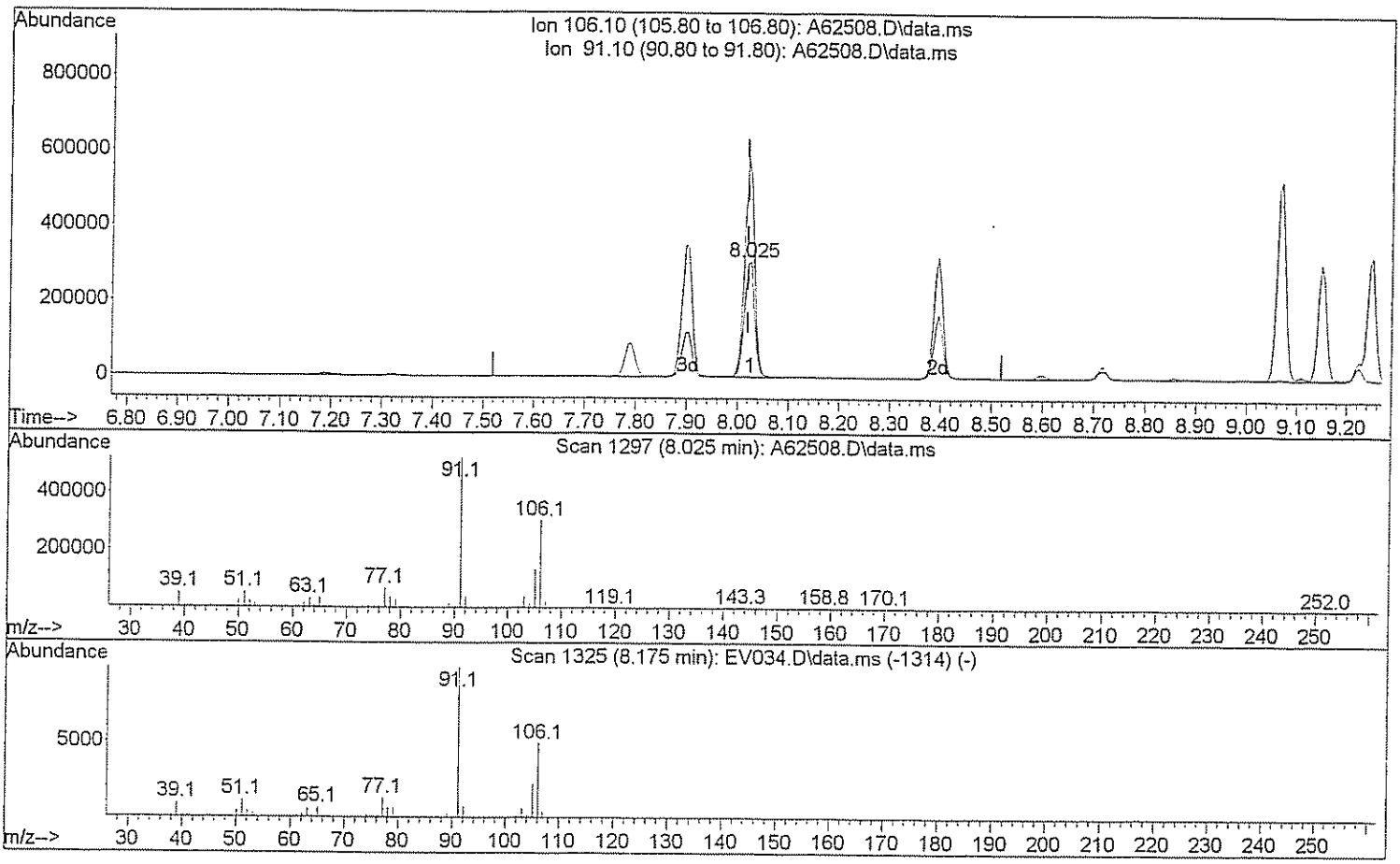
response 105135

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.92#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62508.D
Acq On : 25 Mar 2009 11:47
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 25 12:32:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62508.D\data.ms

(71) Xylene (Total)

8.025min (+0.005) 98.79 ug/L

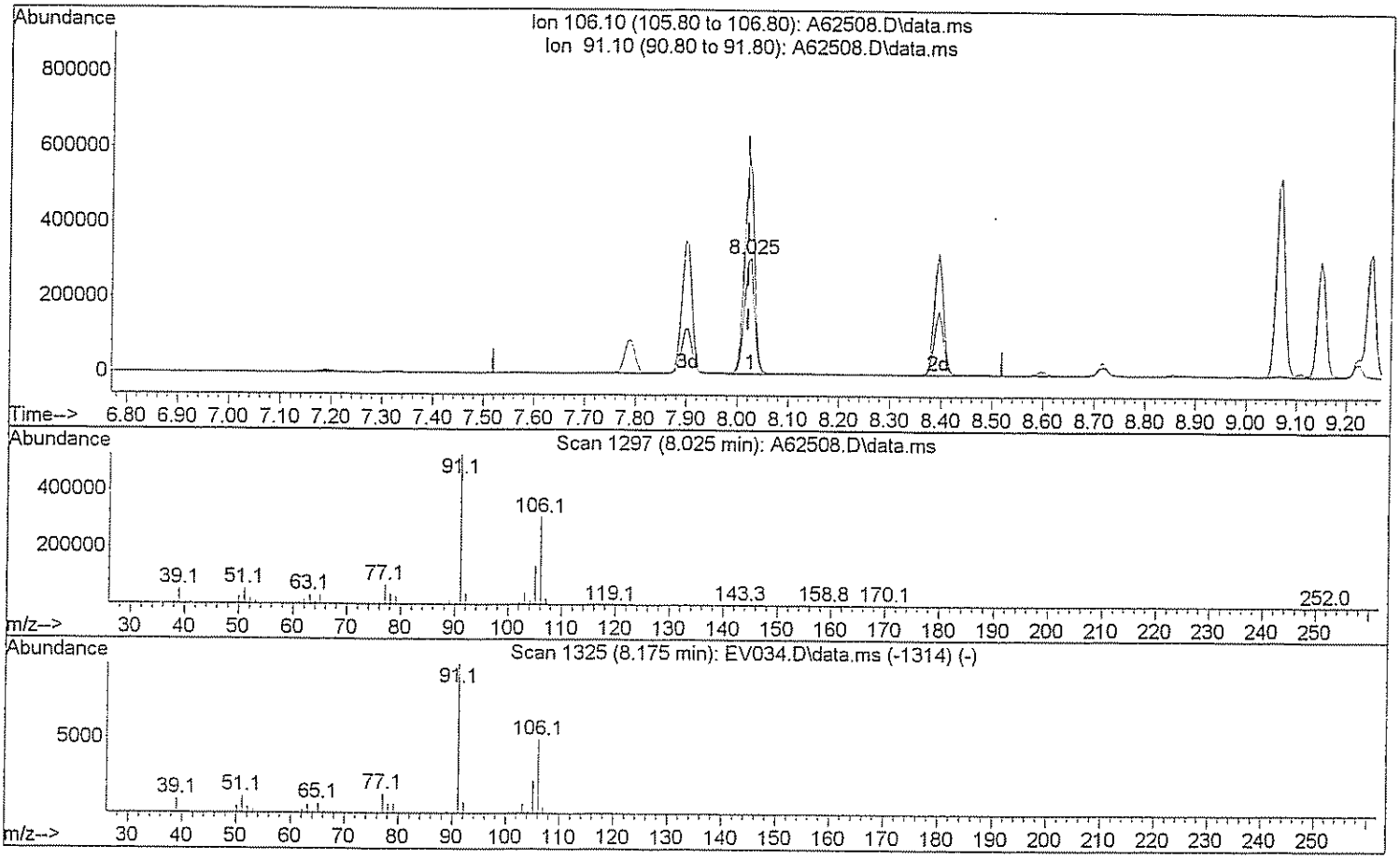
response 424168

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	184.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509C2\
Data File : A62508.D
Acq On : 25 Mar 2009 11:47
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 25 12:32:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62508.D\data.ms

(71) Xylene (Total)

8.025min (+0.005) 148.88 ug/L m

response 639260

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	122.64#
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: [signature] Date: 3/11/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_031009
SEQUENCE FILE:	3-10-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62205	BFB	3-10-09	07:35	1X	Std	5mL	N/A	BFB	Ok
	A 7	CAL01							8260	Ok
	A 9	CAL05								Ok
	A 11	CAL20								Ok
	A 13	CAL50								Ok
	A 15	CAL100								Ok
	A 17	Rinse								cleaning
	A 19	CAL200								Ok
	A 21	BLK								Ok
	A 23	BKS								Ok
	A 25	903020-001				H2O				Ok
	A 27	903020-004								Ok
	A 29	903020-005		↓						Ok
	A 31	903020-006		19:08						Ok
	A ↓ 33	903020-007	↓	Outof Tune	↓	↓	↓	↓	↓	Rerun
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

SM 3/11/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11511	50	3-10-09	2.5 ml
Mix1	11512	100		
Mix2	11513	↓		
Mix3	11514	500		
Gasmix	11515	100		
RefMix	11516	↓	↓	

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NK Date: 3-12-09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260C2-031009
SEQUENCE FILE:	310-09C2
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 622206	BFB	3-10-09	07:55	1X	Std	5mL	N/A	BFB	OK
	A 8	CAL01	↓	↓	↓	↓	↓	↓	8260	OK
	A 10	CAL05							↓	OK
	A 12	CAL20								OK
	A 14	CAL50								OK
	A 16	CAL100								OK
	A 18	Rinse								Cleaning
	A 20	CAL200								OK
	A 22	BLK								OK
	A 24	BKS			↓	↓	↓	↓		OK
	A 26	902161-001			100X	H_2O	50uL	2		OK
	A 28	902161-003			100X	↓	50uL	↓		OK
	A 30	MRL		↓	1X	Std	5mL	N/A		NOT USED
	A 32	902195-003		19:29	1	H_2O		2		
	A 34	MRL	↓	Outofhere	↓	Std	↓	N/A	↓	↓
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

3/12/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11511	50	3-10-09	2.5uL
mix1	11512	100	↓	↓
mix2	11513	↓		
mix3	11514	500		
Gasmix	11515	100		
Refmix	11516	↓	↓	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NK Date: 3/24/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_031009
SEQUENCE FILE:	3-24-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62467	BFB	3-24-09	07:34	1X	Std	5mL	N/A	BFB	Ok
	A 69	CCV50							8260	NOT USED
	A 71	CCV50								Ok
	73	BLK5								Ok
	A 75	BLK				↓		↓		Ok
	A 77	903080-004MS				H_2O		L2		Ok
	A 79	903080-004MSD	↓		↓	↓	↓	↓	↓	Ok
	A 81	Rinse								Cleaning dishwork
	A 83	CAL05								
	A 85	903069-009								Ok
	A 87	903069-010								Ok
	A 89	903069-011								Ok
	A 91	903069-012								Ok
	A 93	903071-005		↓						Ok
	A 95	903071-006		18:58						Ok
	A 97	903069-002MS		Outofline						Reanalyze
	A 99	903069-002MSD	↓	↓	↓	↓	↓	↓	↓	↓
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

3/25/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11540	50	3-17-09	2.5mL
Mix1	11541	100		
Mix2	11542	↓		
Mix3	11543	500		
GasMix	11544	100		
BCPMix	11545	↓	↓	

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NK Date: 3/24/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260C2-031009
SEQUENCE FILE:	3-24-09C2
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 624.68	BFB	~~3-24-09 07:55~~	07:55	1X	Soil	5mL	N/A	BFB	OK
	A 70	CCV50	SM 3/24/09						8260	NOT USED
	A 72	CCV50								OK
	74	BRS								OK
	A 76	BLK			↓	↓	↓	↓		OK
	A 78	TuPBLK-903112			10X	H2O	0.5mL	12		OK
	A 80	903112-001								OK
	A 82	903112-002								OK
	A 84	903127-001								OK
	A 86	903127-002								OK
	A 88	903127-002MS			↓	↓	↓	↓	↓	OK
	A 90	Rinse			1X		5mL			Cleaning
	A 92	~~903071-001~~ SM 3/25/09 CCV05								didn't work
	A 94	903071-002DL		↓						OK
	A 96	903071-002		19:19						OK
	A 98	903071-003		Outofline						re-analyze
	A 500	903071-004	↓	↓	↓	↓	↓	↓	↓	↓
	A									
	A									
	A									
	A									
	A				SM 3/25/09					
	A									
	A									
	A									
	A									
	A									

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11540	50	3-17-09	2.5mL
Mix1	11541	100		
Mix2	11542	↓		
Mix3	11543	500		
GasMix	11544	100		
RefMix	11545	↓	↓	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: N Date: 3/25/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260C2-031009
SEQUENCE FILE:	3-25-09C2
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A G2508	BFB	3-25-09	08:54	1X	Std	5mL	N/A	BFB	ok
	A 4	CCV50							8260	NOT USED
	A 6	CCV50								ok
	8	BKS								ok
	A 10	BLK								ok
	A 12	TCLP BLK-903139			10X	H_2O	0.5mL	2		ok
	A 14	903139-001								ok
	A 16	903071-003			1X		5mL			ok
	A 18	903071-004								ok
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260CIS/SS	11552	50	3-24-09	2.5 mL
Mix1	11553	100		
Mix2	11554	↓		
Mix3	11555	500		
GasMix	11556	100		
RefMix	11557	↓		

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary (where applicable)

GPL Laboratories, LLP

Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903071

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-16MW28-0309	10.3	10.1	1.41	15%
Nitrite-N	E300.0	OU1-16MW28-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-16MW28-0309	1.34	1.36	1.56	15%

RPD - 0 out of 3 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-16MW28-0309	10.3	17.4	10.0	71.1*	90 - 110%
Nitrite-N	E300.0	OU1-16MW28-0309	0.00	1.15	1.00	115*	90 - 110%
Nitrate-N	E300.0	OU1-16MW28-0309	1.339	2.37	1.00	104	90 - 110%

Recovery - 2 out of 3 outside control limits

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #44805/#44035

LCSL (3/14/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	165	104	85 - 115%
Nitrite-N	732	738	101	85 - 115%
Nitrate-N	187	182	97.1	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/14/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	155	98.0	85 - 115%
Nitrate-N	187	186	99.5	85 - 115%

Recovery - 0 out of 2 outside Control Limits

B. Sample Data

GPL Laboratories, LLLP

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-018-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/13/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	24	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

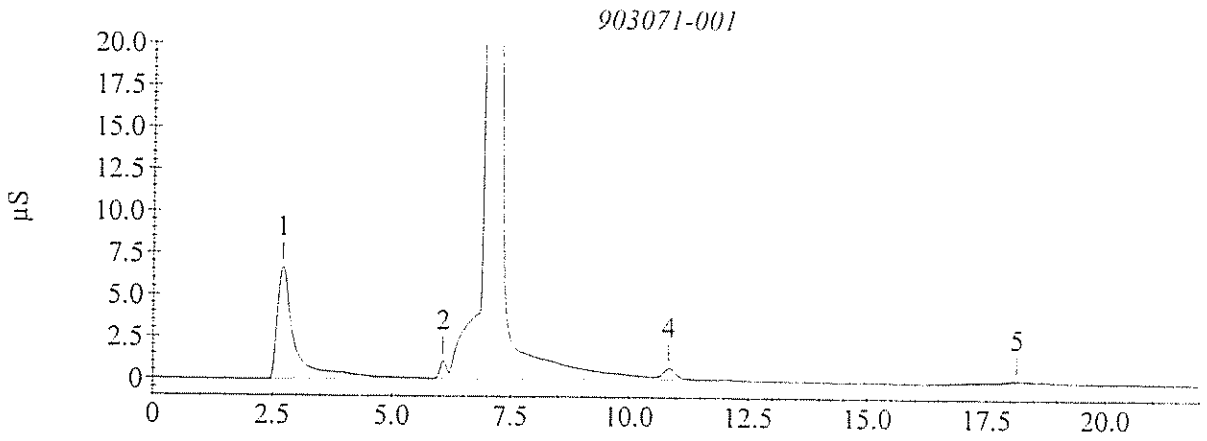
Sample Analysis Report

Sample Name : 903071-001
Data File Name : I:\ICDATA\IC500\090313\090313__013.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 5:16:39 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.327	1670764	66471
2	Chloride	6.07	0.135	100169	10323
3	Nitrite-N	7.10	17.864	31668891	2565801
4	Bromide	10.83	0.420	147458	6896
	Nitrate-N				
	Phosphate-P				
5	Sulfate	18.13	0.091	41681	1026



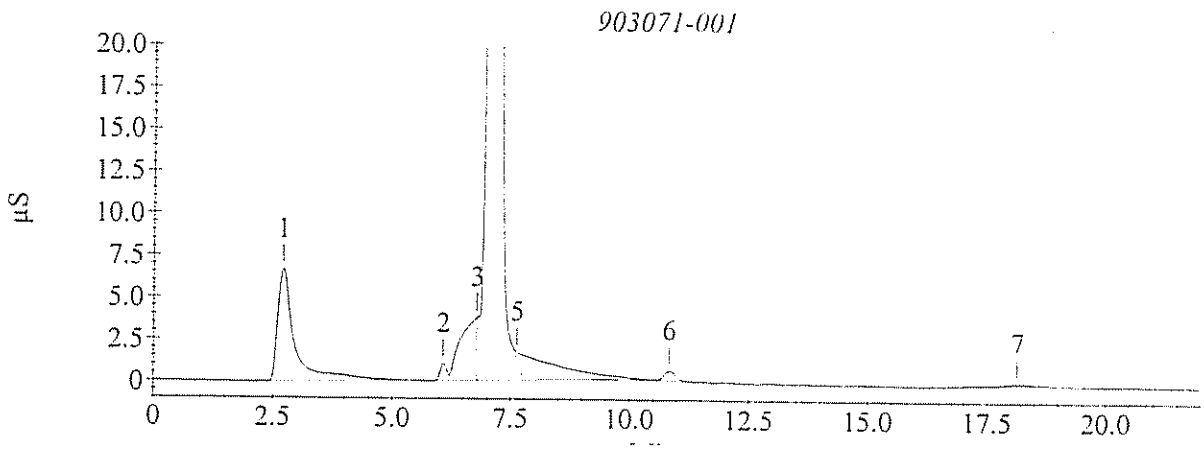
Sample Analysis Report

Sample Name : 903071-001
Data File Name : I:\ICDATA\IC500\090313\090313__013.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/13/09 5:16:39 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.526	1670764	66471
4	Chloride Nitrite-N	7.10	23.793	29685477	2565399
6	Bromide Nitrate-N Phosphate-P	10.83	2.107	90249	5782
7	Sulfate	18.13	1.776	41681	1026



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-019-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/13/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	1.3	
7727-37-9	Nitrite	0.10	U

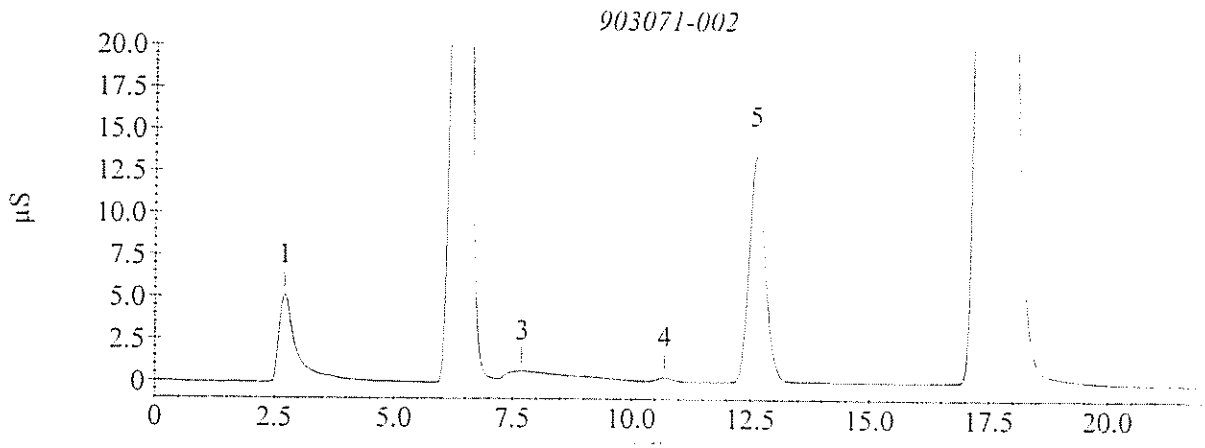
Sample Analysis Report

Sample Name : 903071-002
Data File Name : I:\ICDATA\IC500\090313\090313__014.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 5:41:44 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.104	1380971	51605
2	Chloride	6.47	16.412	14044812	683582
	Nitrite-N				
4	Bromide	10.70	0.192	63901	2611
5	Nitrate-N	12.60	1.339	3138171	133688
	Phosphate-P				
6	Sulfate	17.47	82.695	50829048	1440370



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-019-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	

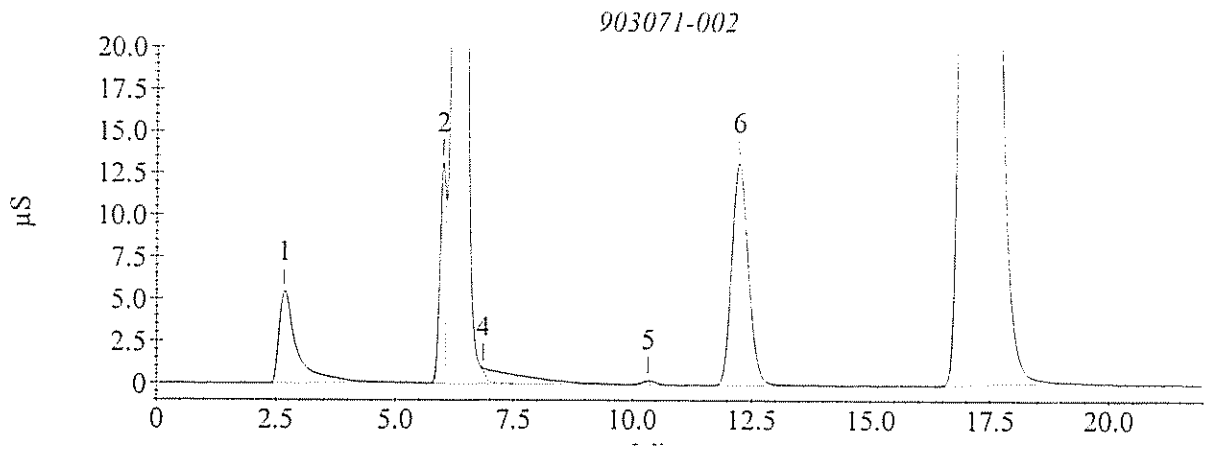
Sample Analysis Report

Sample Name : 903071-002
Data File Name : I:\ICDATA\IC500\090325\090325__041.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/26/09 5:27:13 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1420263	53950
3	Chloride	6.33	10.290	12251751	691093
	Nitrite-N				
5	Bromide	10.33	2.002	50797	2350
	Nitrate-N				
	Phosphate-P				
7	Sulfate	17.13	52.282	51774927	1449029



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-020-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/13/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.2	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

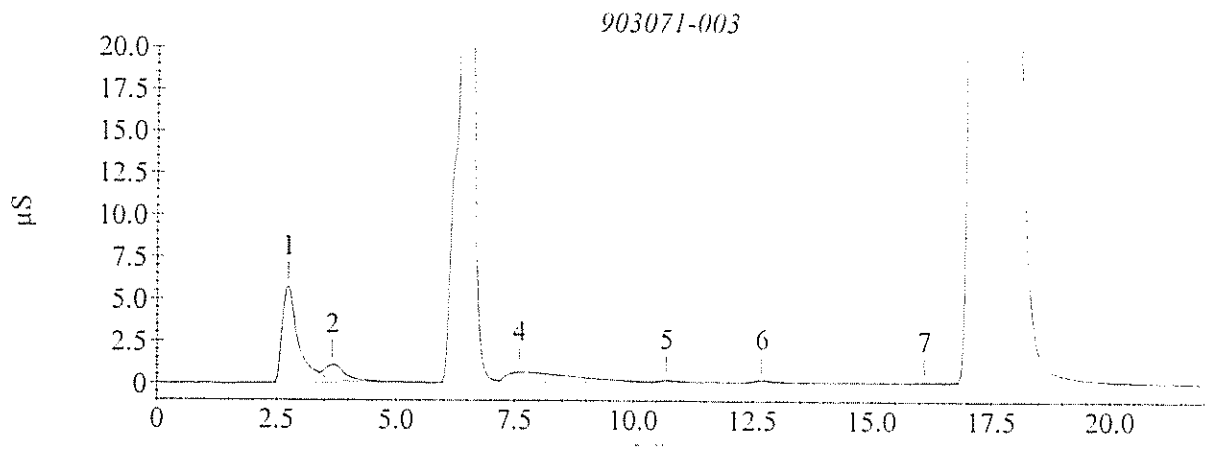
Sample Analysis Report

Sample Name : 903071-003
Data File Name : I:\ICDATA\IC500\090313\090313__017.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 6:57:09 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.233	250031	8311
3	Chloride	6.47	10.438	8927004	435615
	Nitrite-N				
5	Bromide	10.70	0.106	32143	1106
6	Nitrate-N	12.70	0.080	31517	1259
	Phosphate-P				
8	Sulfate	17.30	153.576	94408603	2435758



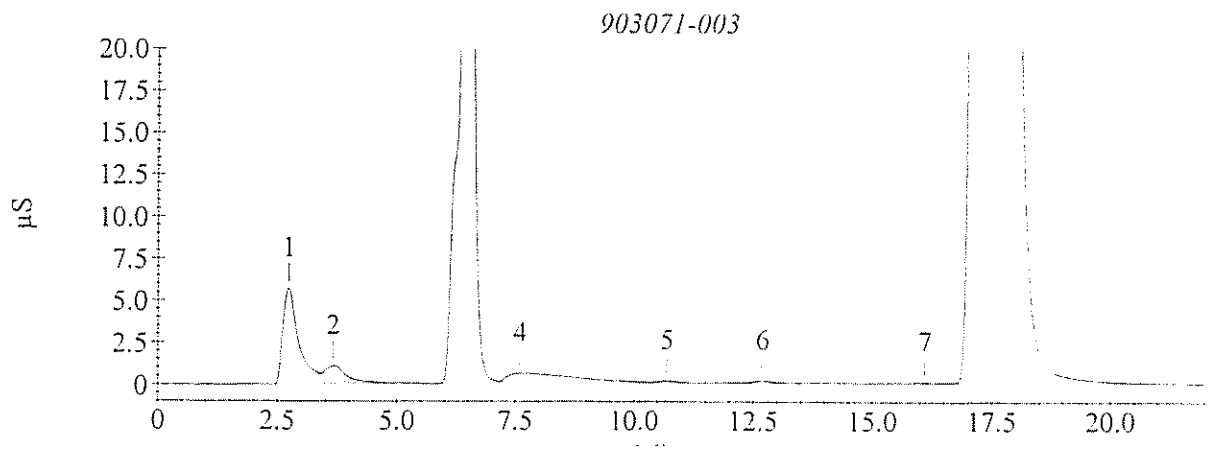
Sample Analysis Report

Sample Name : 903071-003
Data File Name : I:\ICDATA\IC500\090313\090313__017.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/13/09 6:57:09 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.652	250031	8311
3	Chloride	6.47	8.174	8927004	435615
	Nitrite-N				
5	Bromide	10.70	2.002	32143	1106
6	Nitrate-N	12.70	1.195	31517	1259
7	Phosphate-P	16.10	1.837	7184	236
8	Sulfate	17.30	111.070	94408603	2435758



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-021-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/13/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	21	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

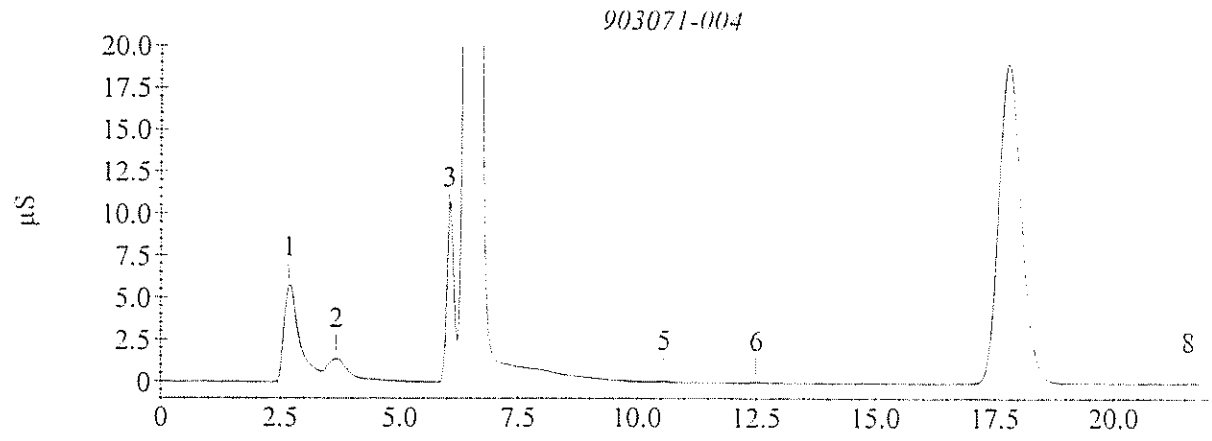
Sample Analysis Report

Sample Name : 903071-004
Data File Name : I:\ICDATA\IC500\090313\090313__018.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Date Time Collected : 3/13/09 7:22:16 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.440	519037	13942
4	Chloride Nitrite-N	6.53	30.305	25946892	1471998
5	Bromide	10.57	0.055	13520	665
6	Nitrate-N Phosphate-P	12.50	0.073	16333	644
7	Sulfate	17.80	10.326	6334277	189941



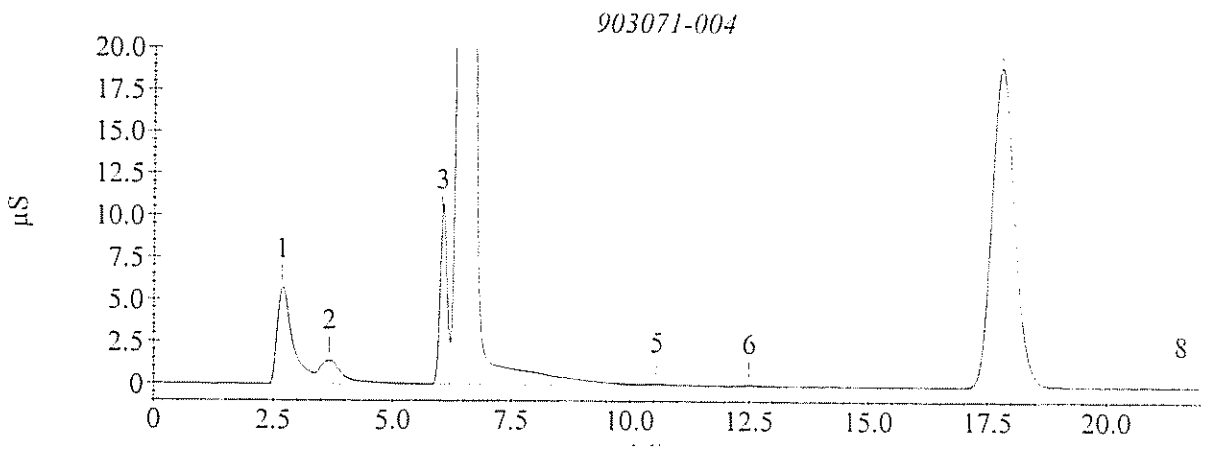
Sample Analysis Report

Sample Name : 903071-004
Data File Name : I:\ICDATA\IC500\090313\090313__018.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/13/09 7:22:16 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.816	519037	13942
4	Chloride	6.53	20.980	25946892	1471998
	Nitrite-N				
	Bromide				
6	Nitrate-N	12.50	1.191	16333	644
	Phosphate-P				
7	Sulfate	17.80	9.064	6334277	189941



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-022-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/13/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

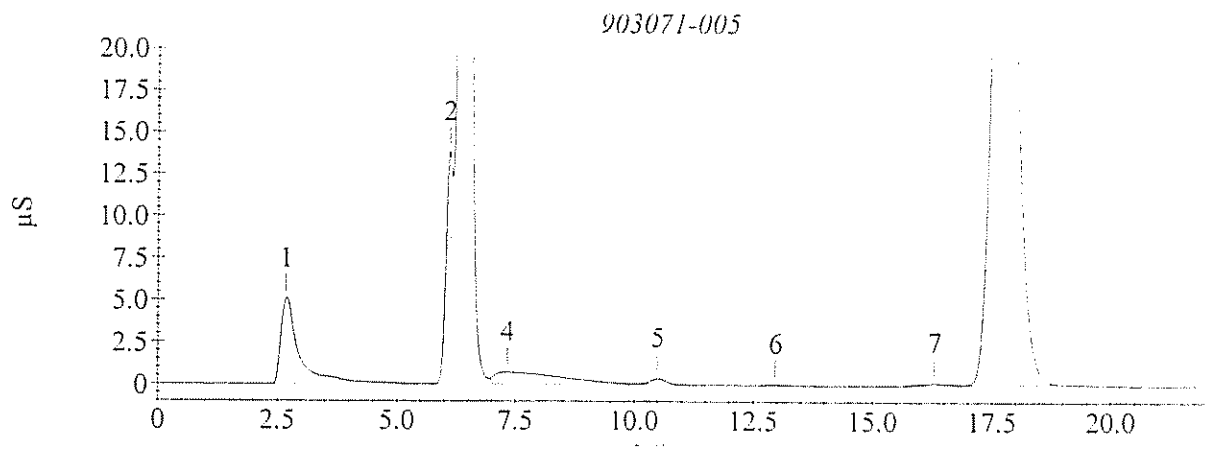
Sample Analysis Report

Sample Name : 903071-005
Data File Name : I:\ICDATA\IC500\090313\090313__019.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Date Time Collected : 3/13/09 7:47:26 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.118	1399601	50477
3	Chloride Nitrite-N	6.40	13.564	11604954	688979
5	Bromide	10.50	0.247	83884	3445
6	Nitrate-N Phosphate-P	12.97	0.071	10279	441
8	Sulfate	17.70	23.997	14739510	443608



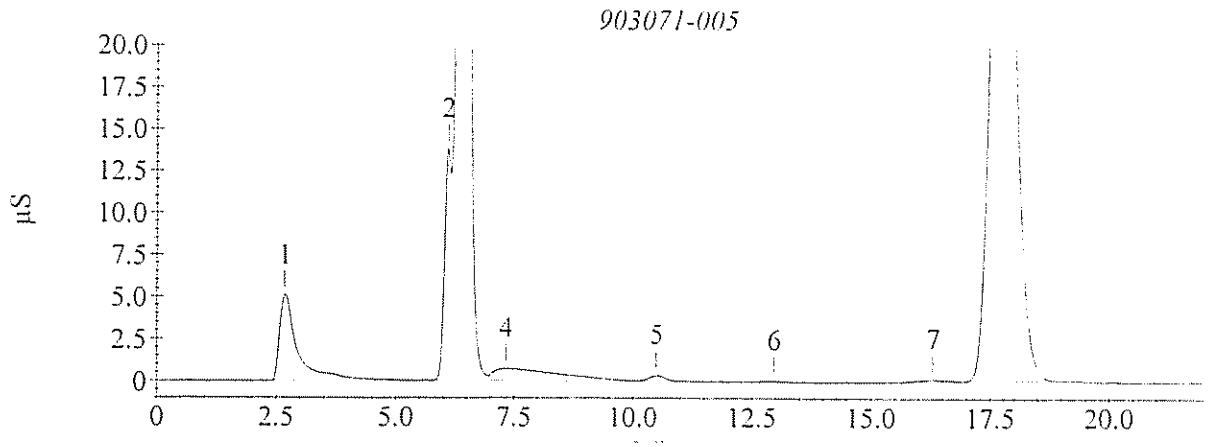
Sample Analysis Report

Sample Name : 903071-005
Data File Name : I:\ICDATA\IC500\090313\090313__019.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/13/09 7:47:26 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.358	1399601	50477
3	Chloride	6.40	10.189	11604954	688979
	Nitrite-N				
5	Bromide	10.50	2.095	83884	3445
6	Nitrate-N	12.97	1.189	10279	441
7	Phosphate-P	16.30	1.875	53578	1198
8	Sulfate	17.70	18.799	14739510	443608



C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLLP

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903071 STD Solution ID: 45325/45405

3/13/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	Chloride	1.25	1.33	107	90 - 110%
	Nitrite-N	1.25	1.31	105	90 - 110%
	Nitrate-N	1.25	1.23	98.3	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	Chloride	1.25	1.33	107	90 - 110%
	Nitrite-N	1.25	1.31	105	90 - 110%
	Nitrate-N	1.25	1.23	98.6	90 - 110%

3/25/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL3	Chloride	1.25	1.17	93.8	90 - 110%
	Nitrite-N	1.25	1.16	92.7	90 - 110%
	Nitrate-N	1.25	1.18	94.6	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL4	Chloride	1.25	1.19	95.4	90 - 110%
	Nitrite-N	1.25	1.18	94.2	90 - 110%
	Nitrate-N	1.25	1.20	96.1	90 - 110%

3/13/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	Chloride	20.0	20.9	104	90 - 110%
	Nitrate-N	20.0	20.4	102	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	Chloride	20.0	20.9	104	90 - 110%
	Nitrate-N	20.0	20.8	104	90 - 110%

3/25/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	Chloride	10.0	9.52	95.2	90 - 110%
	Nitrate-N	10.0	9.84	98.4	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	Chloride	10.0	9.56	95.6	90 - 110%
	Nitrate-N	10.0	10.0	100	90 - 110%

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.63 min	1.00 min	
Chloride	6.40 min	1.00 min	
Nitrite-N	8.27 min	1.00 min	
Bromide	11.13 min	1.00 min	
Nitrate-N	13.37 min	1.00 min	
Phosphate-P	16.77 min	1.00 min	
Sulfate	18.97 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.63 min	0	0
Chloride	6.40 min	0	0
Nitrite-N	8.27 min	0	0
Bromide	11.13 min	0	0
Nitrate-N	13.37 min	0	0
Phosphate-P	16.77 min	0	0
Sulfate	18.97 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.63 min	Linear	Ignore	Area		0.00
Chloride	6.40 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.27 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.13 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	13.37 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.77 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.97 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	4957.2
2	0.10	109547
3	0.25	277132
4	0.50	557311
5	1.00	1.24129e+006
6	2.50	3.20076e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.40 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	77115.9
3	0.25	197410
4	0.50	408470
5	1.00	836176
6	2.50	2.12844e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.27 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	13027
2	0.10	159558
3	0.25	359105
4	0.50	820570
5	1.00	1.74342e+006
6	2.50	4.38464e+006

CD20 Component = Bromide Levels Table

Retention Time : 11.13 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	38326.6
3	0.25	88554.3
4	0.50	165498
5	1.00	356395
6	2.50	912041

CD20 Component = Nitrate-N Levels Table

Retention Time : 13.37 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	205502
3	0.25	506529
4	0.50	970676
5	1.00	2.16507e+006
6	2.50	6.05721e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7303.4
2	0.10	67439.6
3	0.25	165945
4	0.50	353067
5	1.00	734622
6	2.50	1.93771e+006

CD20 Component = Sulfate Levels Table

Retention Time : 18.97 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	53956.6
3	0.25	139751
4	0.50	274835
5	1.00	612643
6	2.50	1.52046e+006

CD20 XY Data Parameters

Calibration Update Report

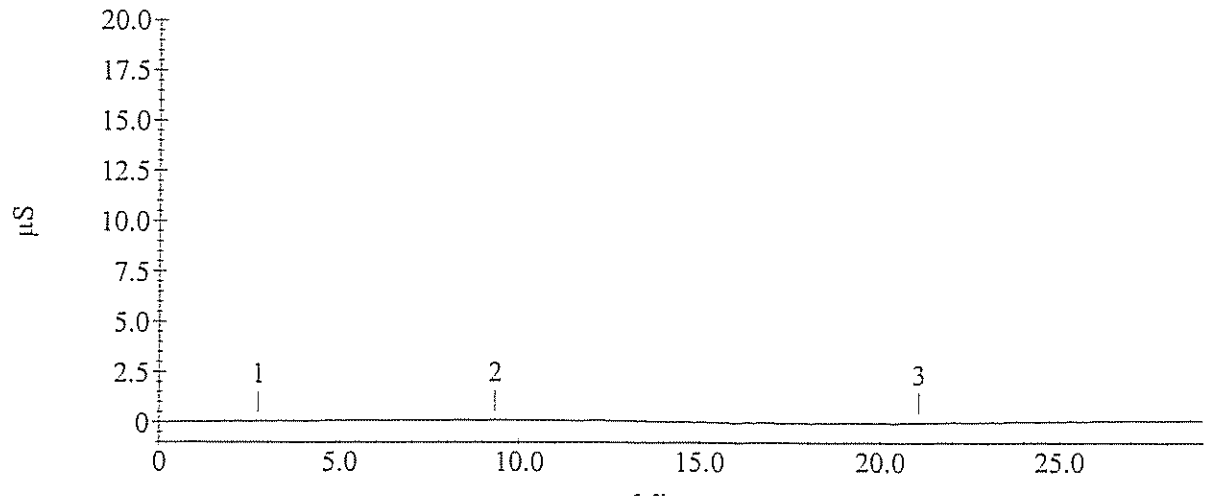
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\080917\080917__003.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:21:51 PM
Calibration Date : 9/18/08 10:53:59 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride Chloride	2.73	12030	4957	4957
2	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	9.33	10214	13027	13027

STD 1 - BLK



Calibration Update Report

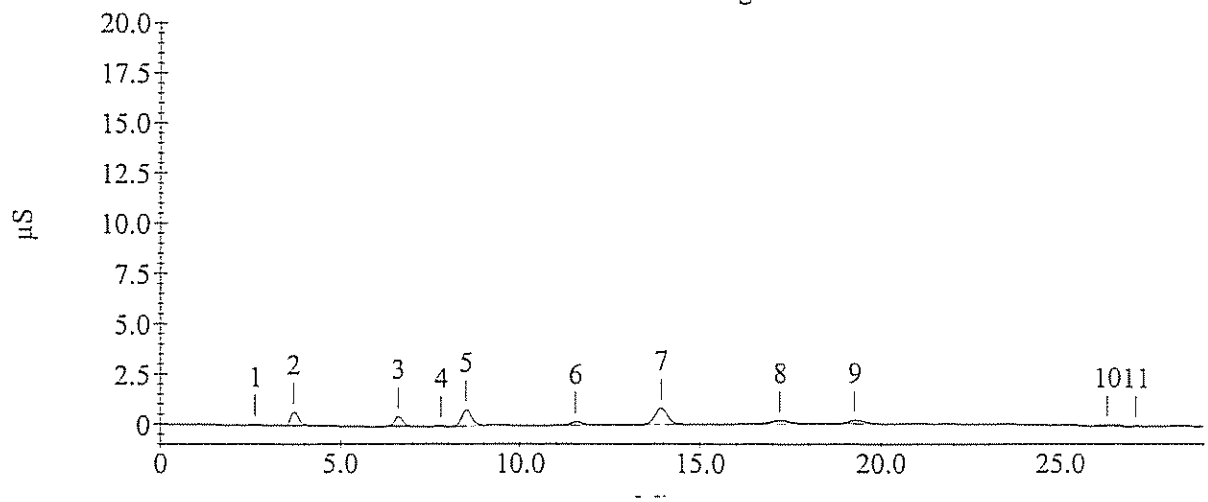
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__004.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:54:07 PM
Calibration Date : 9/18/08 10:54:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.70	127699	109547	109547
3	Chloride	6.60	79506	77116	77116
5	Nitrite-N	8.50	165770	159558	159558
6	Bromide	11.53	36476	38327	38327
7	Nitrate-N	13.93	210099	205502	205502
8	Phosphate-P	17.20	57656	67440	67440
9	Sulfate	19.27	29056	53957	53957

STD 2 - 0.10 mg/L



Calibration Update Report

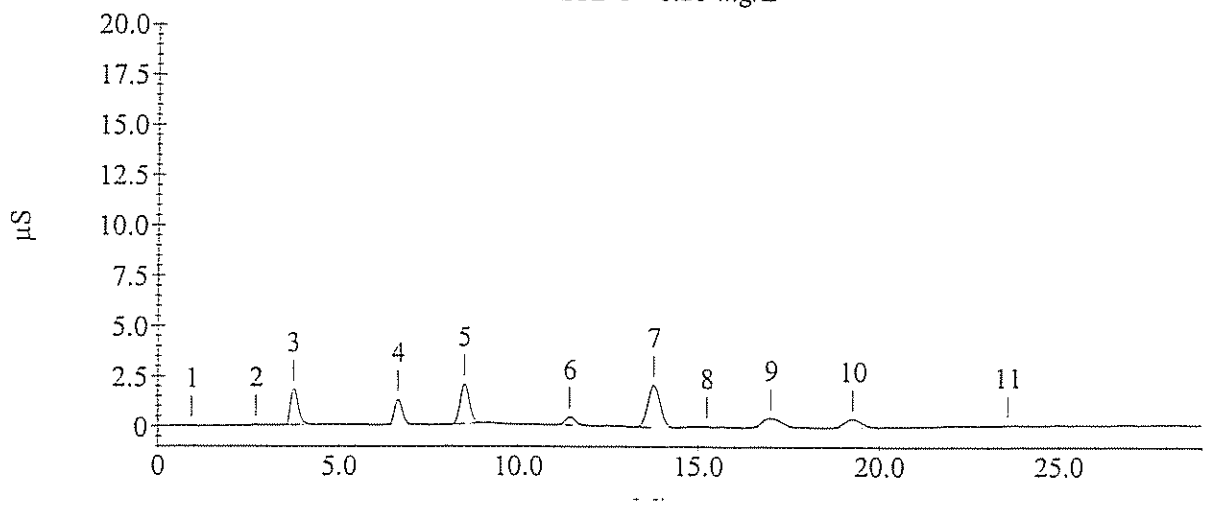
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__005.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:26:23 PM
Calibration Date : 9/18/08 10:55:25 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.73	321091	277132	277132
4	Chloride	6.63	234107	197410	197410
5	Nitrite-N	8.50	439503	359105	359105
6	Bromide	11.43	91211	88554	88554
7	Nitrate-N	13.77	544593	506530	506530
9	Phosphate-P	17.00	161886	165945	165945
10	Sulfate	19.27	150013	139751	139751

STD 3 - 0.25 mg/L



Calibration Update Report

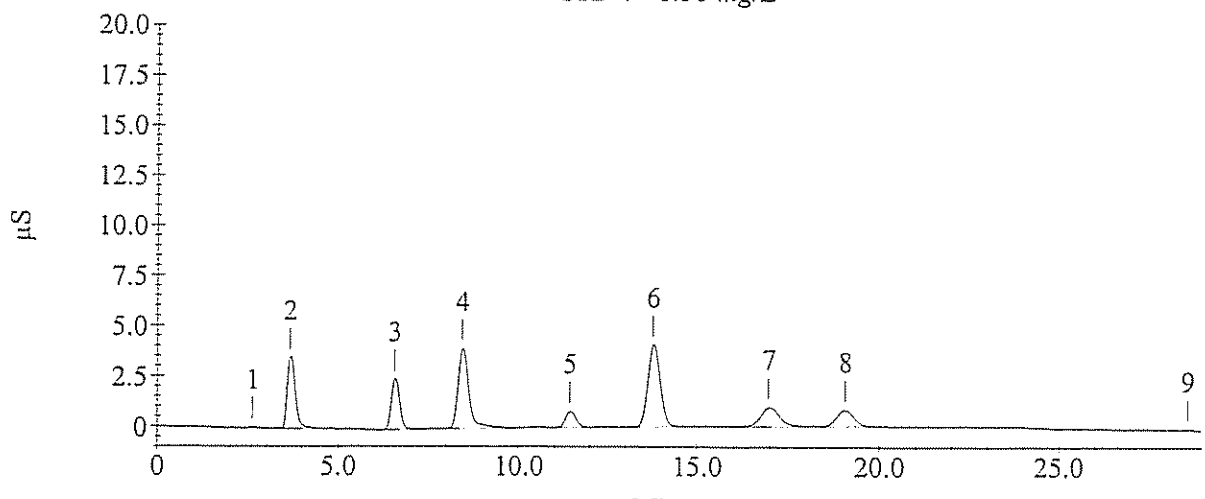
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__006.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:58:39 PM
Calibration Date : 9/18/08 10:55:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	652331	557311	557311
3	Chloride	6.53	443570	408470	408470
4	Nitrite-N	8.43	856511	820570	820570
5	Bromide	11.43	176794	165498	165498
6	Nitrate-N	13.77	1117440	970676	970676
7	Phosphate-P	16.97	364199	353067	353067
8	Sulfate	19.07	317565	274835	274835

STD 4 - 0.50 mg/L



Calibration Update Report

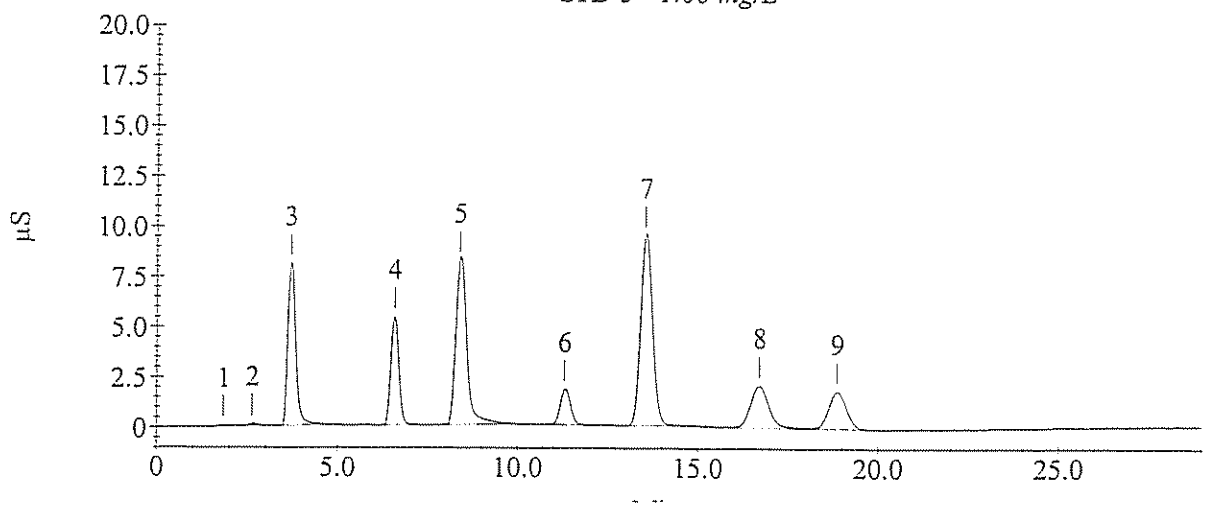
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__007.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 5:30:56 PM
Calibration Date : 9/18/08 10:56:16 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	1414952	1241286	1241286
4	Chloride	6.57	945973	836176	836176
5	Nitrite-N	8.40	1867081	1743424	1743424
6	Bromide	11.30	378829	356395	356395
7	Nitrate-N	13.53	2350504	2165069	2165069
8	Phosphate-P	16.70	766176	734622	734622
9	Sulfate	18.87	605591	612643	612643

STD 5 - 1.00 mg/L



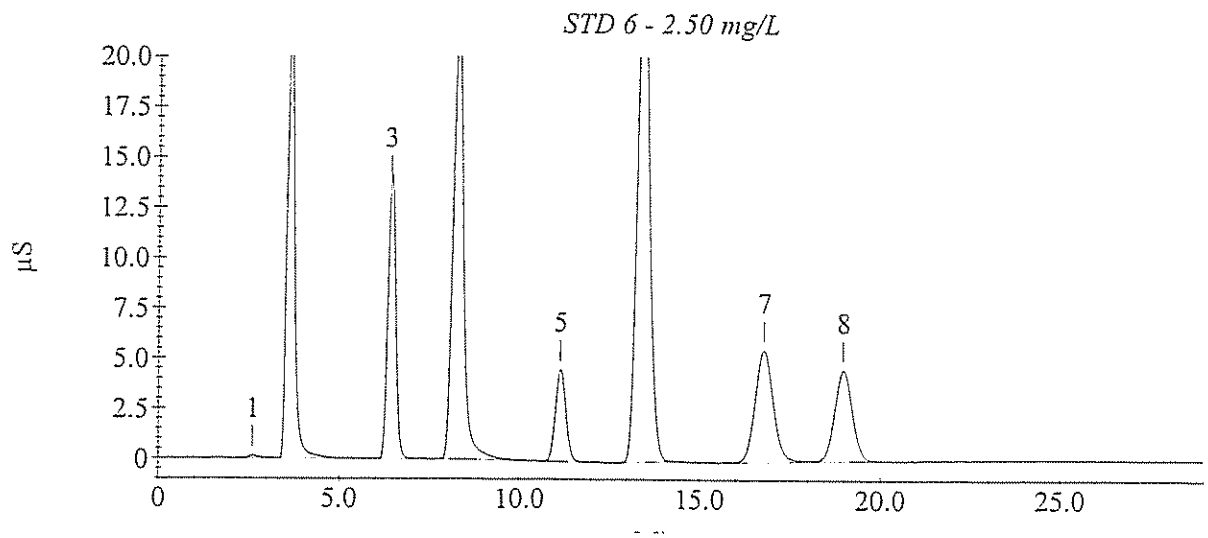
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__008.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:03:10 PM
Calibration Date : 9/18/08 10:56:45 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.63	3393532	3201114	3201114
3	Chloride	6.40	2250125	2128443	2128443
4	Nitrite-N	8.27	4631633	4384638	4384638
5	Bromide	11.13	897545	912041	912041
6	Nitrate-N	13.37	6210895	6057211	6057211
7	Phosphate-P	16.77	2064462	1937708	1937708
8	Sulfate	18.97	1545001	1520461	1520461



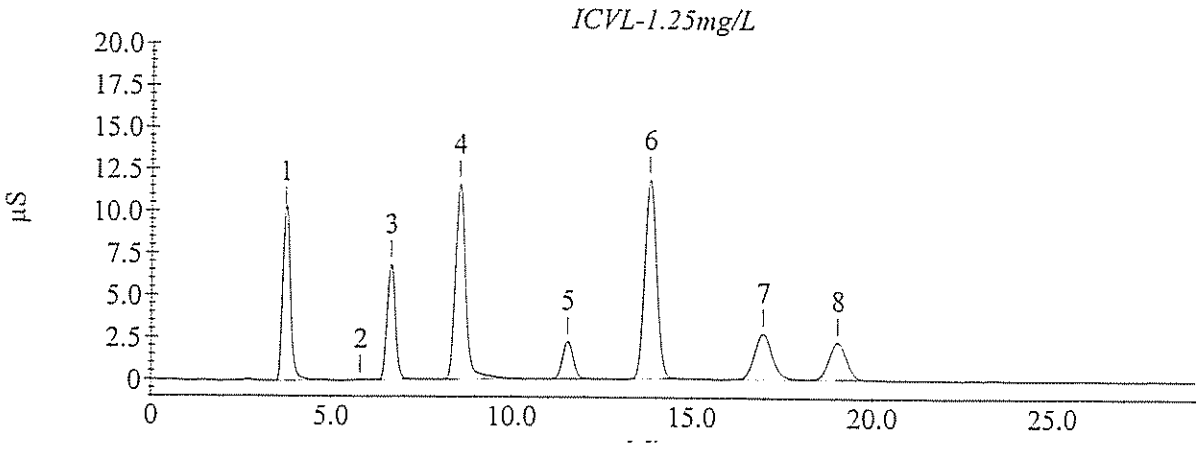
Sample Analysis Report

Sample Name : ICVL-1.25mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 9/17/08 9:49:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	1.272	1599310	100086
3	Chloride	6.63	1.281	1081600	67848
4	Nitrite-N	8.53	1.342	2332375	115172
5	Bromide	11.53	1.266	457280	22107
6	Nitrate-N	13.80	1.167	2714120	117215
7	Phosphate-P	16.97	1.231	934494	27173
8	Sulfate	19.03	1.214	732044	22175



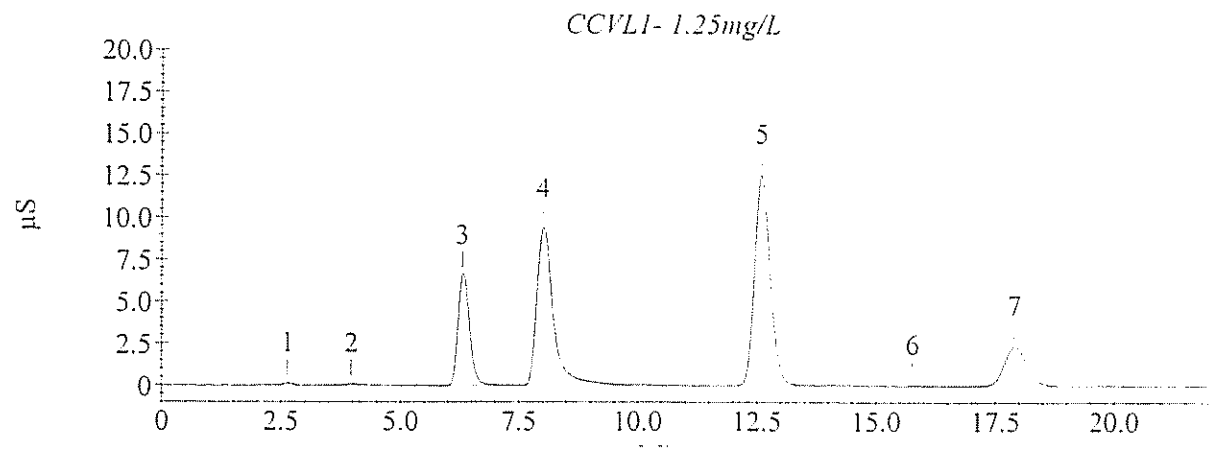
Sample Analysis Report

Sample Name : CCVL1- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090313\090313__009.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 3:36:07 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.97	0.052	15368	837
3	Chloride	6.30	1.334	1126688	65104
4	Nitrite-N Bromide	8.00	1.309	2273367	92712
5	Nitrate-N Phosphate-P	12.60	1.229	2865888	125220
7	Sulfate	17.90	1.293	780357	23468



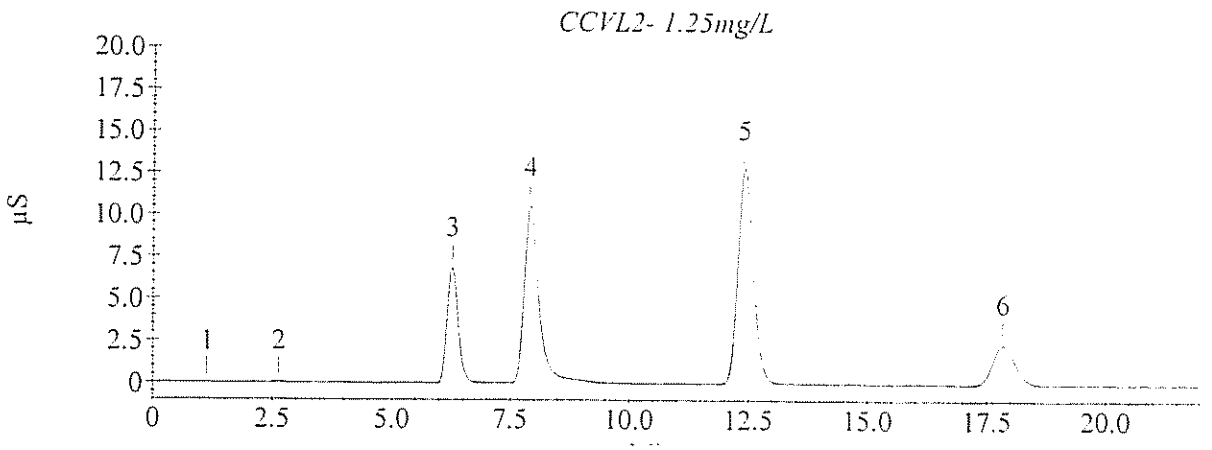
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090313\090313__020.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 8:12:32 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	2.63	0.046	6920	536
3	Chloride	6.27	1.334	1127203	68260
4	Nitrite-N Bromide	7.90	1.314	2282394	103831
5	Nitrate-N Phosphate-P	12.40	1.233	2876897	126073
6	Sulfate	17.83	1.272	767568	23590



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.67 min	1.00 min	
Chloride	6.20 min	1.00 min	
Nitrite-N	7.83 min	1.00 min	
Bromide	10.33 min	1.00 min	
Nitrate-N	12.20 min	1.00 min	
Phosphate-P	15.67 min	5.00 min	
Sulfate	17.80 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.67 min	0	0
Chloride	6.20 min	0	0
Nitrite-N	7.83 min	0	0
Bromide	10.33 min	0	0
Nitrate-N	12.20 min	0	0
Phosphate-P	15.67 min	0	0
Sulfate	17.80 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.67 min	Linear	Ignore	Area		0.00
Chloride	6.20 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	7.83 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.33 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.20 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.67 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.80 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	21958
2	0.10	135267
3	0.25	287985
4	0.50	546281
5	1.00	1.21146e+006
6	2.50	3.07327e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	104137
3	0.25	210975
4	0.50	423601
5	1.00	886345
6	2.50	2.27702e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 7.83 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	62855.3
2	0.10	238116
3	0.25	487595
4	0.50	880655
5	1.00	1.79323e+006
6	2.50	4.50791e+006

CD20 Component = Bromide Levels Table

Retention Time : 10.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	36053.3
3	0.25	87423.9
4	0.50	184692
5	1.00	378819
6	2.50	940431

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	198696
3	0.25	532712
4	0.50	1.03372e+006
5	1.00	2.36629e+006
6	2.50	6.12422e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	8388.6
2	0.10	29693.1
3	0.25	120423
4	0.50	216150
5	1.00	493533
6	2.50	1.34148e+006

CD20 Component = Sulfate Levels Table

Retention Time : 17.80 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	79015.6
3	0.25	193779
4	0.50	348721
5	1.00	729749
6	2.50	1.79531e+006

CD20 XY Data Parameters

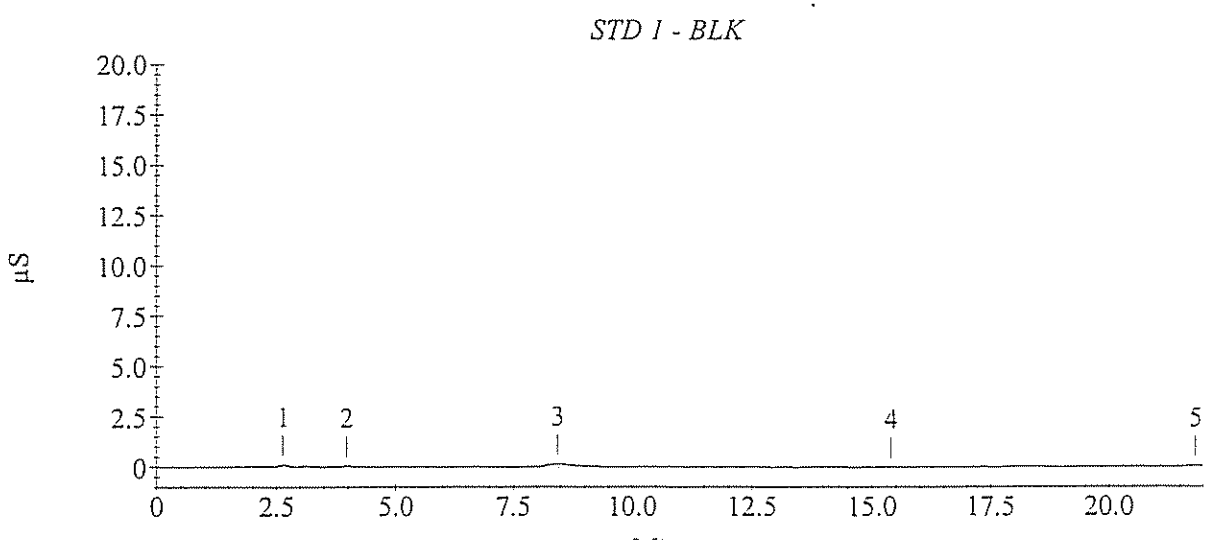
Calibration Update Report

Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\090318\090318__005.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:30:43 PM
Calibration Date : 3/19/09 9:53:29 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride Chloride	3.97	4957	21958	21958
3	Nitrite-N Bromide Nitrate-N	8.43	13027	62855	62855
4	Phosphate-P Sulfate	15.40	7303	8389	8389



Calibration Update Report

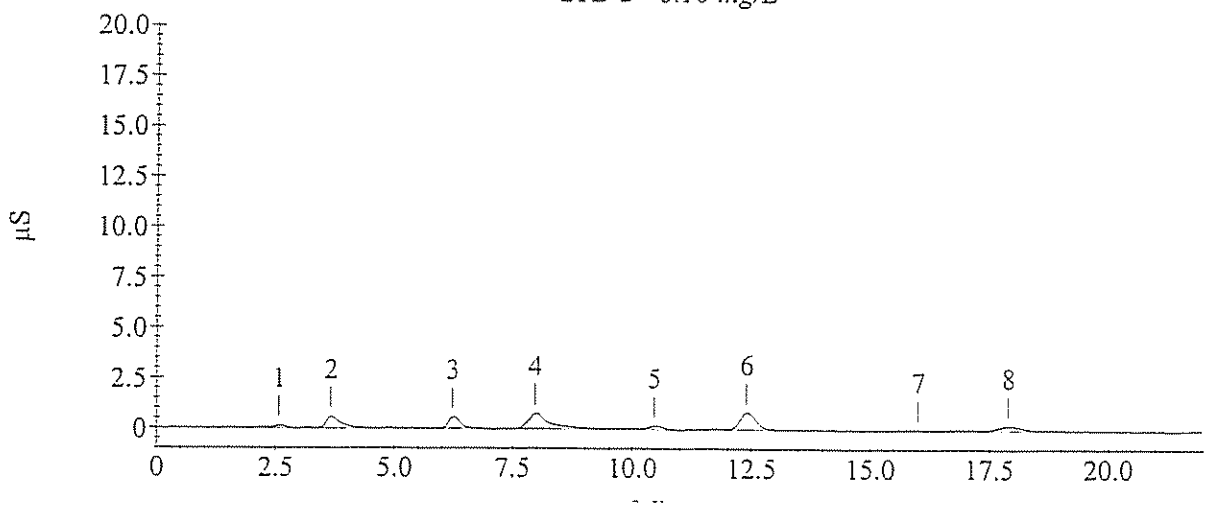
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__006.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:55:47 PM
Calibration Date : 3/19/09 10:00:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	109547	135267	135267
3	Chloride	6.23	77116	104137	104137
4	Nitrite-N	7.97	159558	238116	238116
5	Bromide	10.47	38327	36053	36053
6	Nitrate-N	12.40	205502	198696	198696
7	Phosphate-P	16.00	67440	29693	29693
8	Sulfate	17.90	53957	79016	79016

STD 2 - 0.10 mg/L



Calibration Update Report

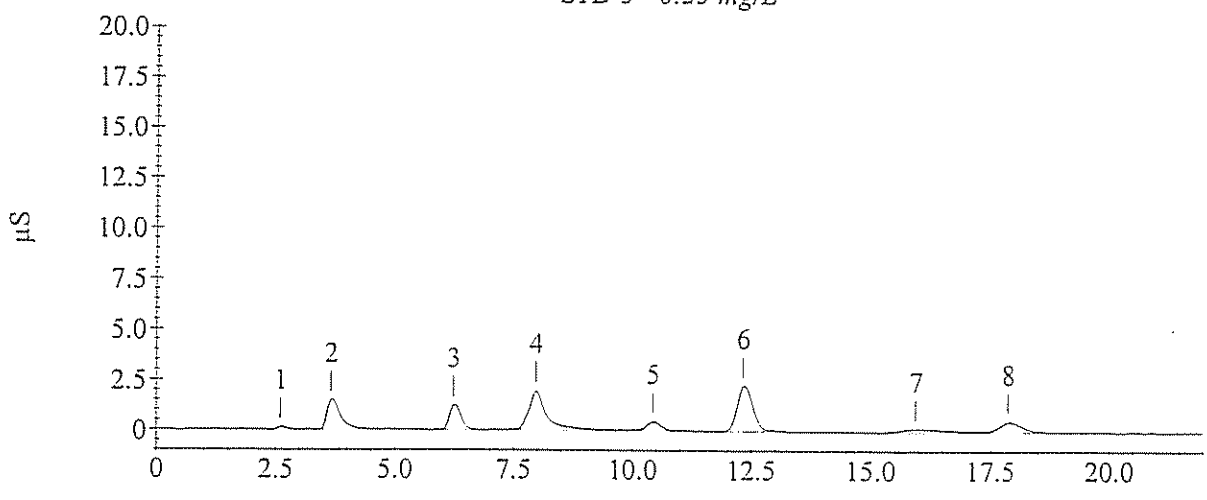
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__007.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:20:51 PM
Calibration Date : 3/19/09 9:16:23 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	277132	287985	287985
3	Chloride	6.23	197410	210975	210975
4	Nitrite-N	7.97	359105	487595	487595
5	Bromide	10.43	88554	87424	87424
6	Nitrate-N	12.33	506529	532712	532712
7	Phosphate-P	15.93	165945	120423	120423
8	Sulfate	17.87	139751	193779	193779

STD 3 - 0.25 mg/L



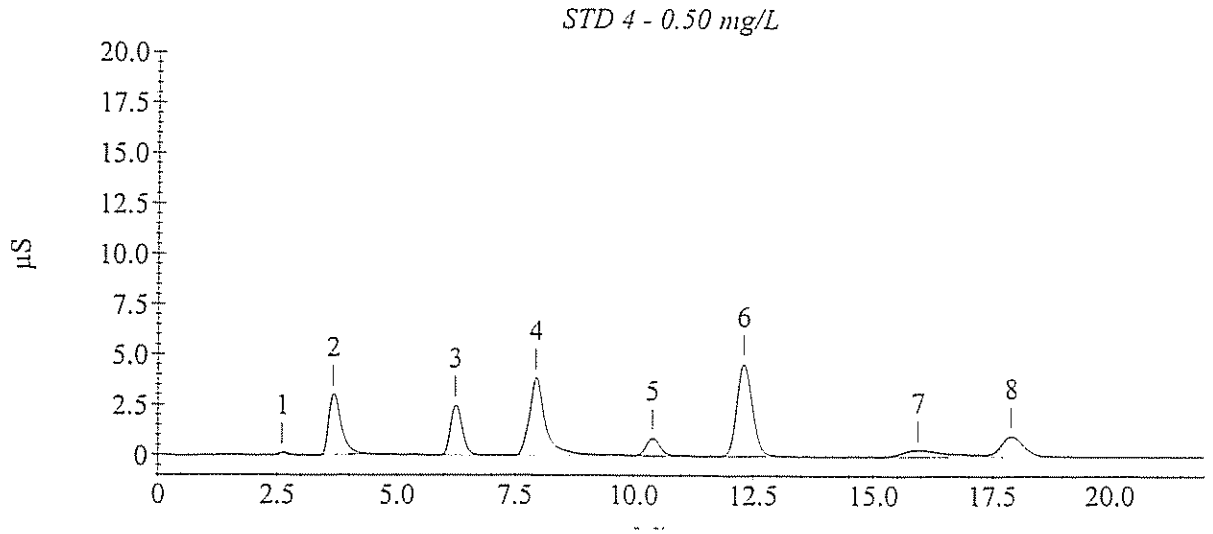
Calibration Update Report

Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__008.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:45:56 PM
Calibration Date : 3/19/09 9:16:47 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	557311	546281	546281
3	Chloride	6.23	408470	423601	423601
4	Nitrite-N	7.93	820570	880655	880655
5	Bromide	10.40	165498	184692	184692
6	Nitrate-N	12.30	970676	1033717	1033717
7	Phosphate-P	15.93	353067	216150	216150
8	Sulfate	17.90	274835	348721	348721



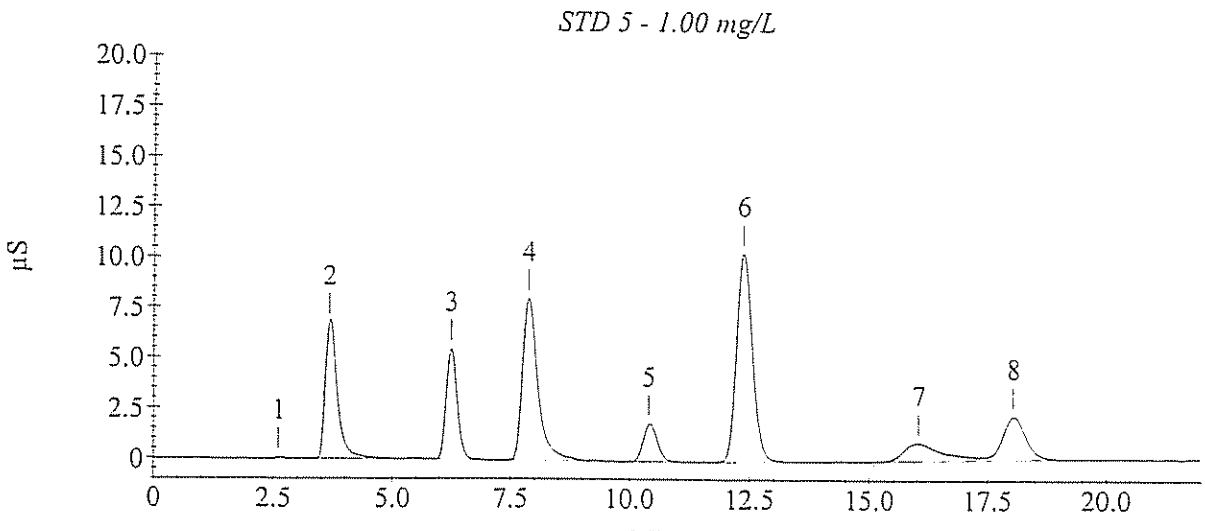
Calibration Update Report

Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__009.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:11:03 PM
Calibration Date : 3/19/09 9:17:01 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	1241286	1211455	1211455
3	Chloride	6.23	836176	886345	886345
4	Nitrite-N	7.87	1743424	1793231	1793231
5	Bromide	10.40	356395	378819	378819
6	Nitrate-N	12.37	2165069	2366291	2366291
7	Phosphate-P	16.03	734622	493533	493533
8	Sulfate	18.03	612643	729749	729749



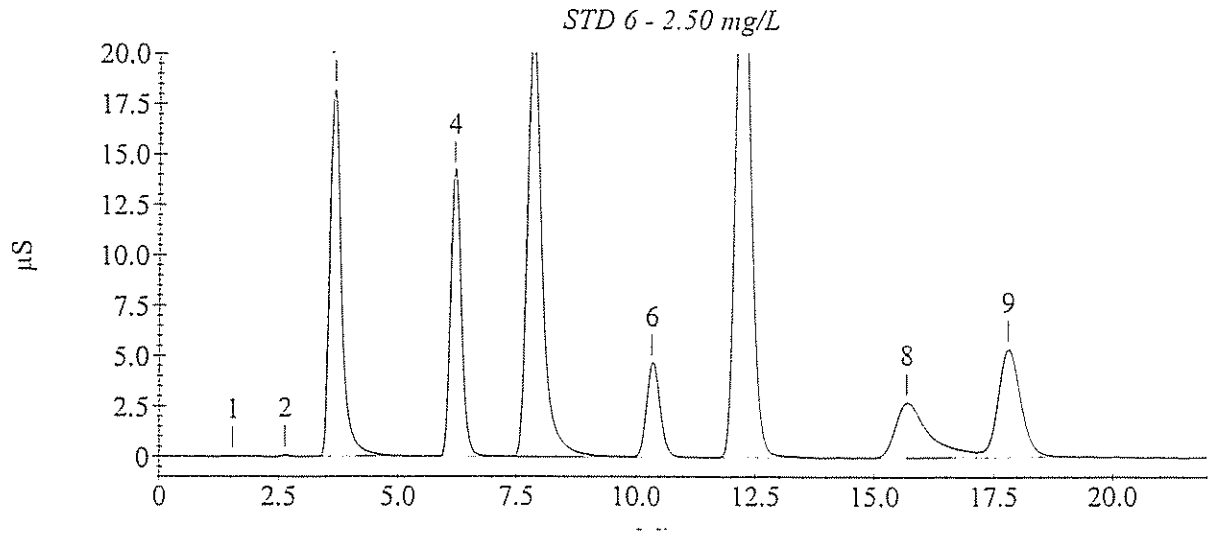
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__010.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:36:08 PM
Calibration Date : 3/19/09 9:17:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.67	3200757	3073266	3073266
4	Chloride	6.20	2128443	2277017	2277017
5	Nitrite-N	7.83	4384638	4507913	4507913
6	Bromide	10.33	912041	940431	940431
7	Nitrate-N	12.20	6057211	6124224	6124224
8	Phosphate-P	15.67	1937708	1341477	1341477
9	Sulfate	17.80	1520461	1795309	1795309



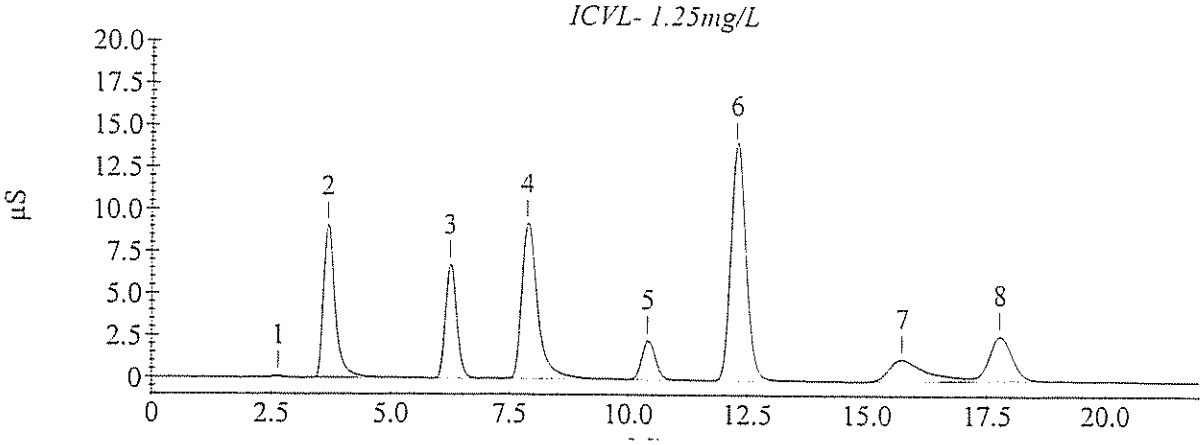
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__017.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/18/09 6:31:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.283	1565911	89179
3	Chloride	6.23	1.228	1107725	66995
4	Nitrite-N	7.87	1.169	2120349	91415
5	Bromide	10.40	1.243	466511	23016
6	Nitrate-N	12.27	1.307	3138229	138573
7	Phosphate-P	15.73	1.340	701225	13082
8	Sulfate	17.77	1.256	905537	26377



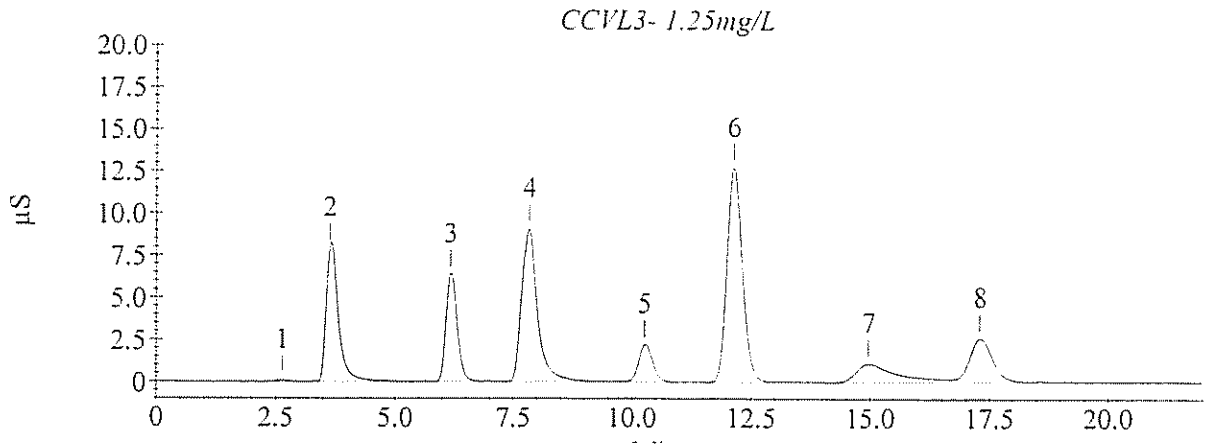
Sample Analysis Report

Sample Name : CCVL3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__036.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/26/09 3:22:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	1.202	1466255	79088
3	Chloride	6.17	1.173	1056950	63500
4	Nitrite-N	7.83	1.159	2102121	90271
5	Bromide	10.27	1.202	451037	21925
6	Nitrate-N	12.13	1.183	2830841	126786
7	Phosphate-P	14.97	1.264	659726	10967
8	Sulfate	17.30	1.188	856783	25674



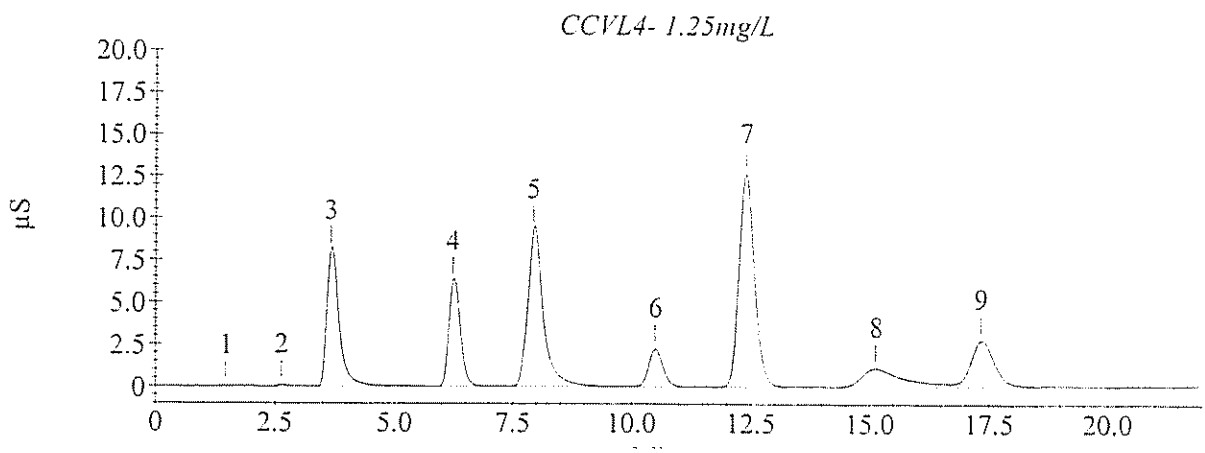
Sample Analysis Report

Sample Name : CCVL4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__045.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/26/09 7:07:30 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
3	Fluoride	3.67	1.216	1482555	80097
4	Chloride	6.23	1.192	1074748	61773
5	Nitrite-N	7.93	1.177	2133223	92425
6	Bromide	10.50	1.221	458040	22080
7	Nitrate-N	12.40	1.201	2874086	125864
8	Phosphate-P	15.13	1.264	660054	10869
9	Sulfate	17.33	1.304	939879	27050



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	2.00 min	
Chloride	6.60 min	2.00 min	
Nitrite-N	8.60 min	2.00 min	
Bromide	11.10 min	2.00 min	
Nitrate-N	12.53 min	2.00 min	
Phosphate-P	16.53 min	2.00 min	
Sulfate	18.63 min	2.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.60 min	0	0
Nitrite-N	8.60 min	0	0
Bromide	11.10 min	0	0
Nitrate-N	12.53 min	0	0
Phosphate-P	16.53 min	0	0
Sulfate	18.63 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.60 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.60 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.10 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.53 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.53 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.63 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.19633e+006
2	5.00	6.79909e+006
3	10.00	1.4197e+007
4	15.00	2.23583e+007
5	25.00	3.24666e+007
6	50.00	5.95621e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.17209e+006
2	5.00	4.74491e+006
3	10.00	1.09177e+007
4	15.00	1.81901e+007
5	25.00	3.02302e+007
6	50.00	6.49975e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.50237e+006
2	5.00	9.32687e+006
3	10.00	1.88466e+007
4	15.00	2.84344e+007
5	25.00	4.30083e+007
6	50.00	7.78228e+007

CD20 Component = Bromide Levels Table

Retention Time : 11.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	944915
2	5.00	1.94188e+006
3	10.00	4.22448e+006
4	15.00	6.96738e+006
5	25.00	1.20925e+007
6	50.00	2.71285e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.0797e+006
2	5.00	1.34786e+007
3	10.00	2.97651e+007
4	15.00	4.68262e+007
5	25.00	7.95557e+007
6	50.00	1.68531e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.91979e+006
2	5.00	4.10318e+006
3	10.00	9.26053e+006
4	15.00	1.50936e+007
5	25.00	2.73147e+007
6	50.00	5.84703e+007

CD20 Component = Sulfate Levels Table

Retention Time : 18.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.51196e+006
2	5.00	3.10193e+006
3	10.00	6.7792e+006
4	15.00	1.0794e+007
5	25.00	1.95858e+007
6	50.00	4.20941e+007

CD20 XY Data Parameters

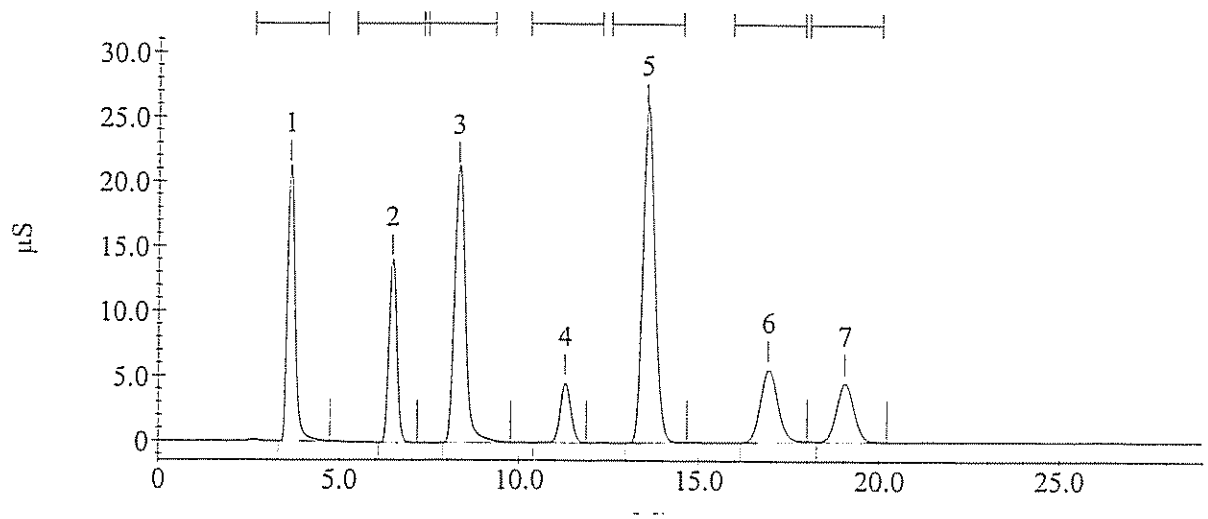
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__009.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:35:27 PM
Calibration Date : 9/18/08 1:45:07 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.63	3490609	3196333	3196333
2	Chloride	6.43	2340736	2172090	2172090
3	Nitrite-N	8.30	4788476	4502370	4502370
4	Bromide	11.27	910060	944915	944915
5	Nitrate-N	13.53	6100255	6079699	6079699
6	Phosphate-P	16.90	1989759	1919795	1919795
7	Sulfate	19.03	1509227	1511958	1511958



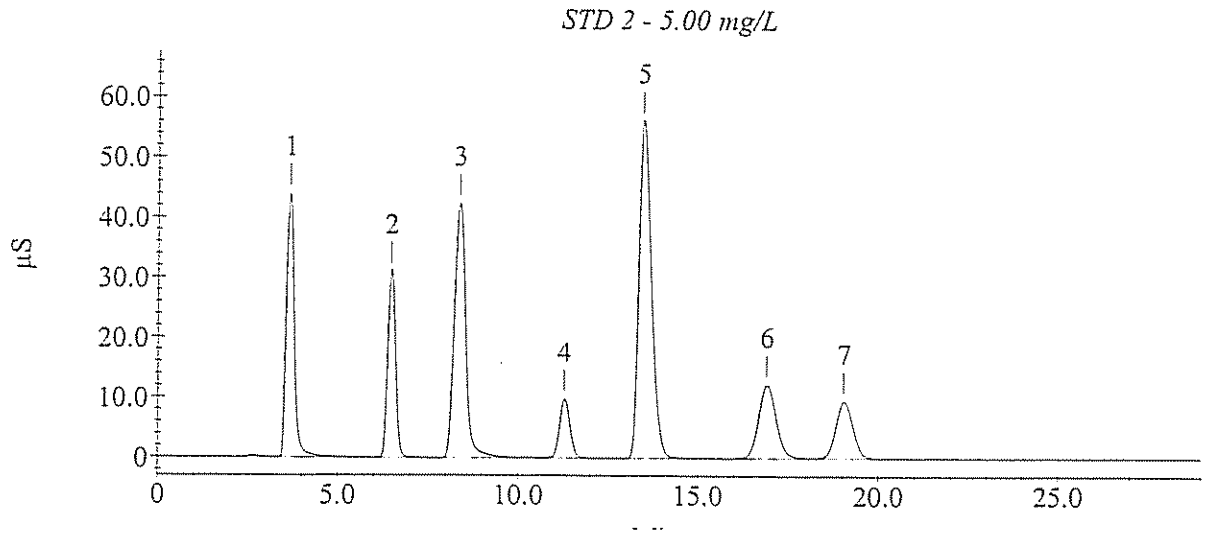
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__010.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:07:45 PM
Calibration Date : 9/18/08 1:46:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	7163728	6799090	6799090
2	Chloride	6.47	4951970	4744908	4744908
3	Nitrite-N	8.37	9622812	9326874	9326874
4	Bromide	11.27	1886735	1941879	1941879
5	Nitrate-N	13.47	13547415	13478598	13478598
6	Phosphate-P	16.90	4333106	4103184	4103184
7	Sulfate	19.03	3220366	3101926	3101926



Calibration Update Report

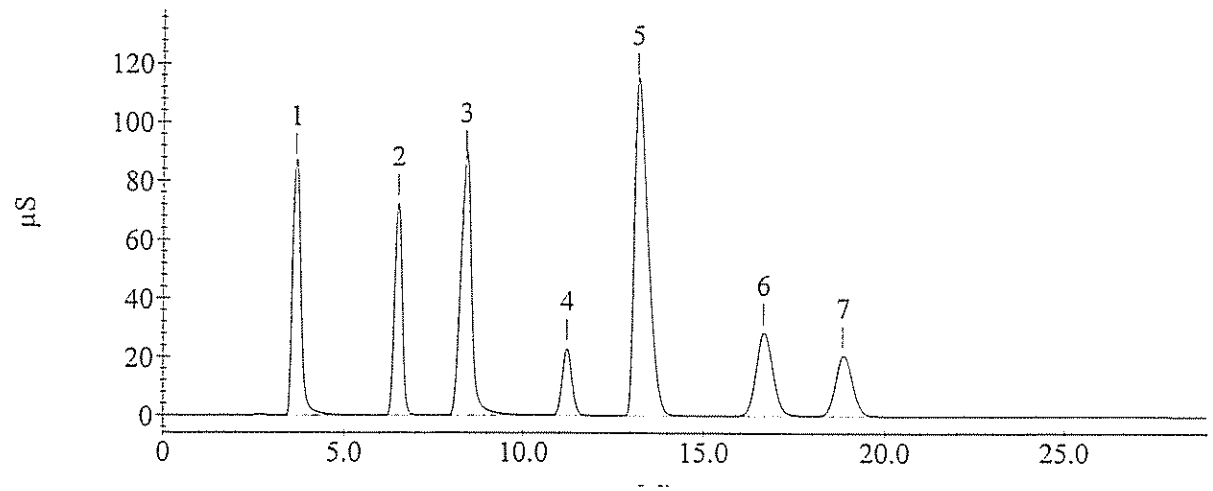
Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__011.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:39:59 PM
Calibration Date : 9/18/08 1:46:56 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	15827968	14197049	14197049
2	Chloride	6.50	12391700	10917702	10917702
3	Nitrite-N	8.40	20828057	18846586	18846586
4	Bromide	11.20	4468055	4224476	4224476
5	Nitrate-N	13.17	32002772	29765135	29765135
6	Phosphate-P	16.63	10155360	9260527	9260527
7	Sulfate	18.83	7254458	6779202	6779202

STD 3 - 10.0 mg/L



Calibration Update Report

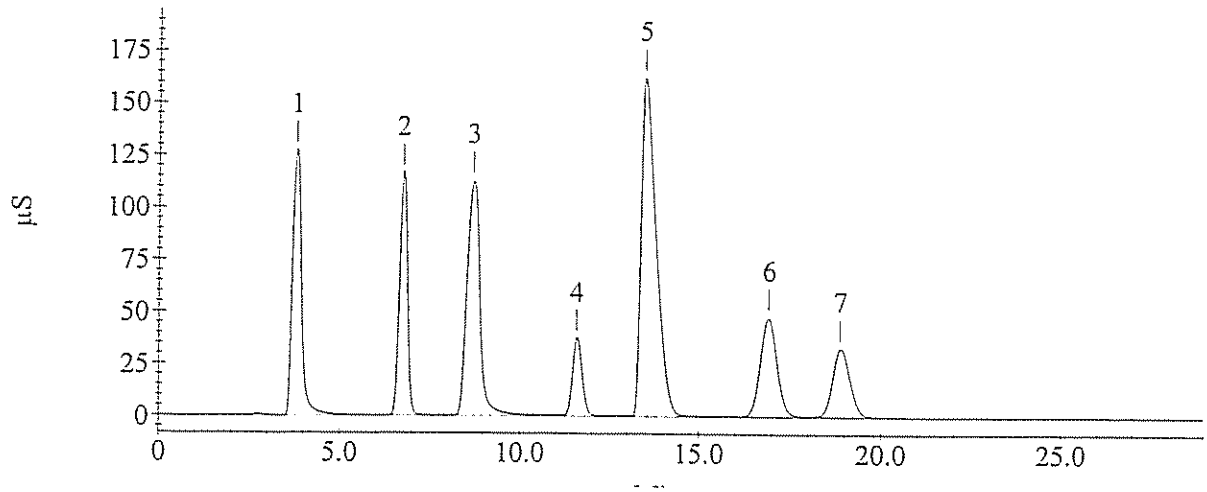
Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__012.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:12:14 PM
Calibration Date : 9/18/08 1:55:13 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.80	22029611	22358309	22358309
2	Chloride	6.73	18865697	18190071	18190071
3	Nitrite-N	8.70	29289300	28434383	28434383
4	Bromide	11.57	7016812	6967382	6967382
5	Nitrate-N	13.47	50292581	46826178	46826178
6	Phosphate-P	16.90	16723468	15093639	15093639
7	Sulfate	18.87	11671317	10793955	10793955

STD 4 - 15.0 mg/L



Calibration Update Report

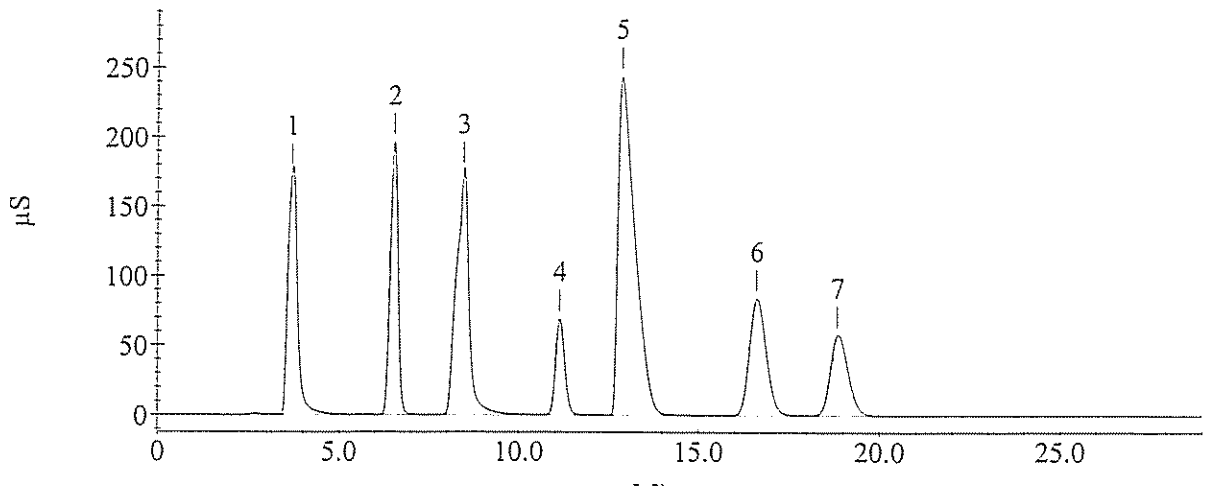
Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__013.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:44:30 PM
Calibration Date : 9/18/08 1:55:31 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.70	33007779	32466619	32466619
2	Chloride	6.53	32580429	30230161	30230161
3	Nitrite-N	8.47	44840173	43008339	43008339
4	Bromide	11.13	12419665	12092529	12092529
5	Nitrate-N	12.87	83601485	79555670	79555670
6	Phosphate-P	16.60	28101078	27314683	27314683
7	Sulfate	18.83	19423982	19585760	19585760

STD 5 - 25.0 mg/L



Calibration Update Report

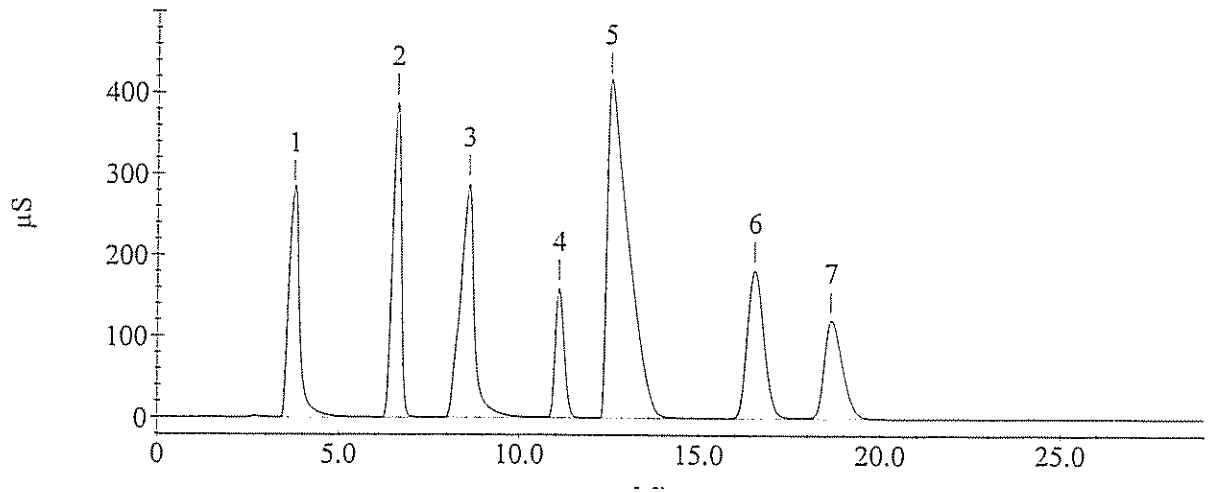
Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__014.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 9:16:45 PM
Calibration Date : 9/18/08 1:55:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.77	61202691	59562057	59562057
2	Chloride	6.60	68397328	64997521	64997521
3	Nitrite-N	8.60	78043406	77822760	77822760
4	Bromide	11.10	26985167	27128528	27128528
5	Nitrate-N	12.53	170058779	168531288	168531288
6	Phosphate-P	16.53	60044391	58470285	58470285
7	Sulfate	18.63	41693235	42094125	42094125

STD 6 - 50.0 mg/L



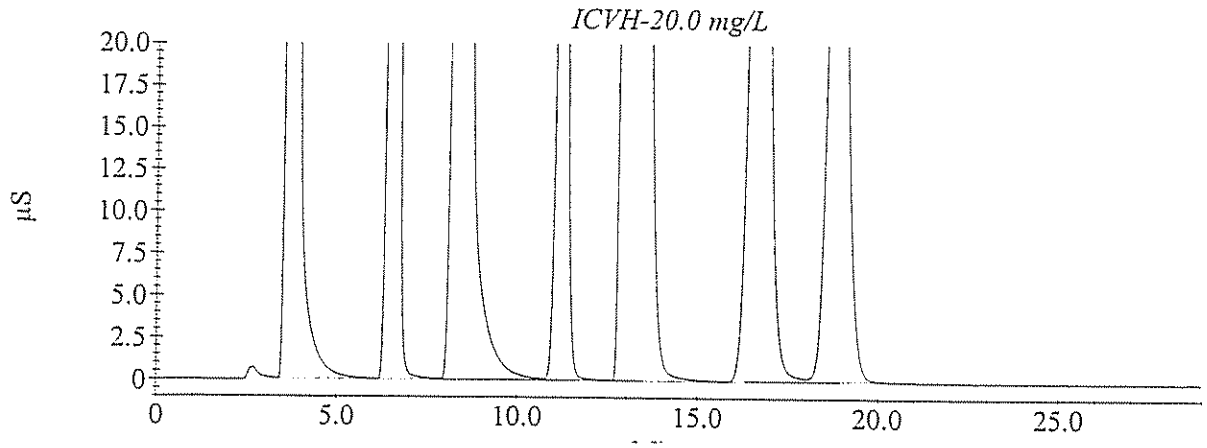
Sample Analysis Report

Sample Name : ICVH-20.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__016.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 9/17/08 10:21:17 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	19.970	27365306	1532443
2	Chloride	6.53	19.882	24486856	1608579
3	Nitrite-N	8.47	22.633	37577280	1419007
4	Bromide	11.17	18.982	9475913	530938
5	Nitrate-N	12.97	19.672	63390755	2049592
6	Phosphate-P	16.60	19.427	21178030	659102
7	Sulfate	18.80	19.274	15149498	460473



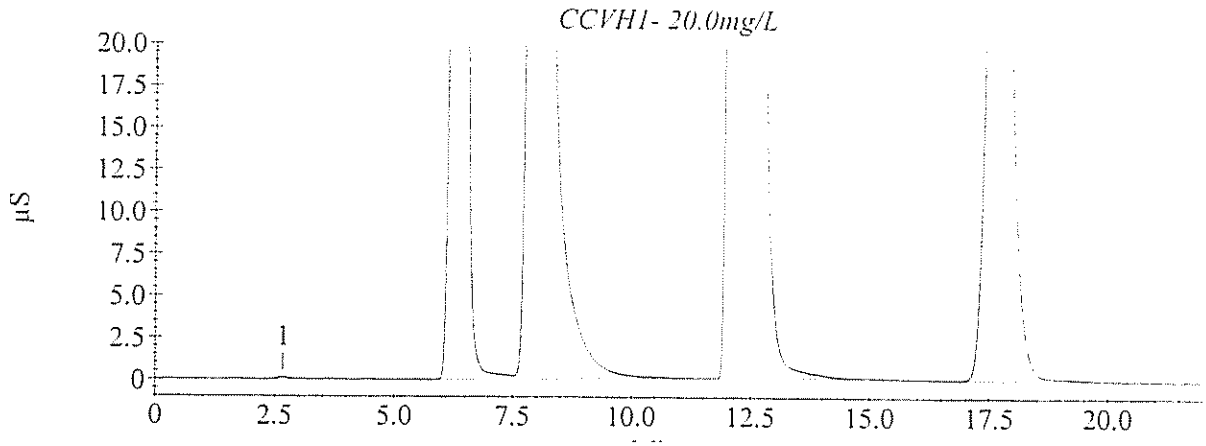
Sample Analysis Report

Sample Name : CCVH1- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090313\090313__008.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/13/09 3:10:58 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	17005	1222
2	Chloride	6.33	20.867	25796665	1605438
3	Nitrite-N Bromide	7.97	22.697	37676700	1583695
4	Nitrate-N Phosphate-P	12.13	20.444	66040469	2197965
5	Sulfate	17.63	19.751	15561663	503147



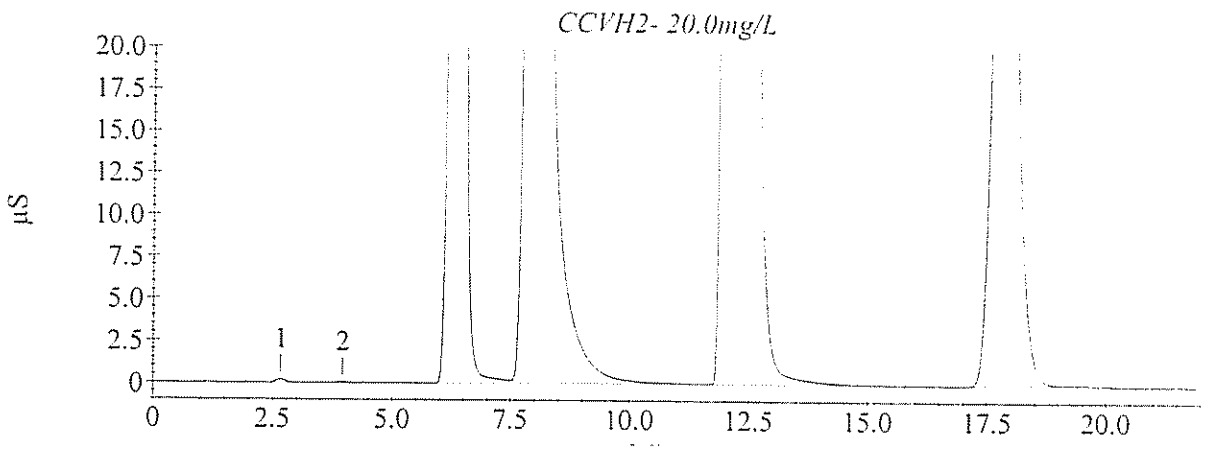
Sample Analysis Report

Sample Name : CCVH2- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090313\090313__021.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/13/09 8:37:40 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.97	0.503	6848	427
3	Chloride	6.33	20.870	25799766	1586628
4	Nitrite-N Bromide	7.97	23.143	38363246	1503739
5	Nitrate-N Phosphate-P	12.07	20.785	67208674	2285647
6	Sulfate	17.80	20.134	15892638	519167



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

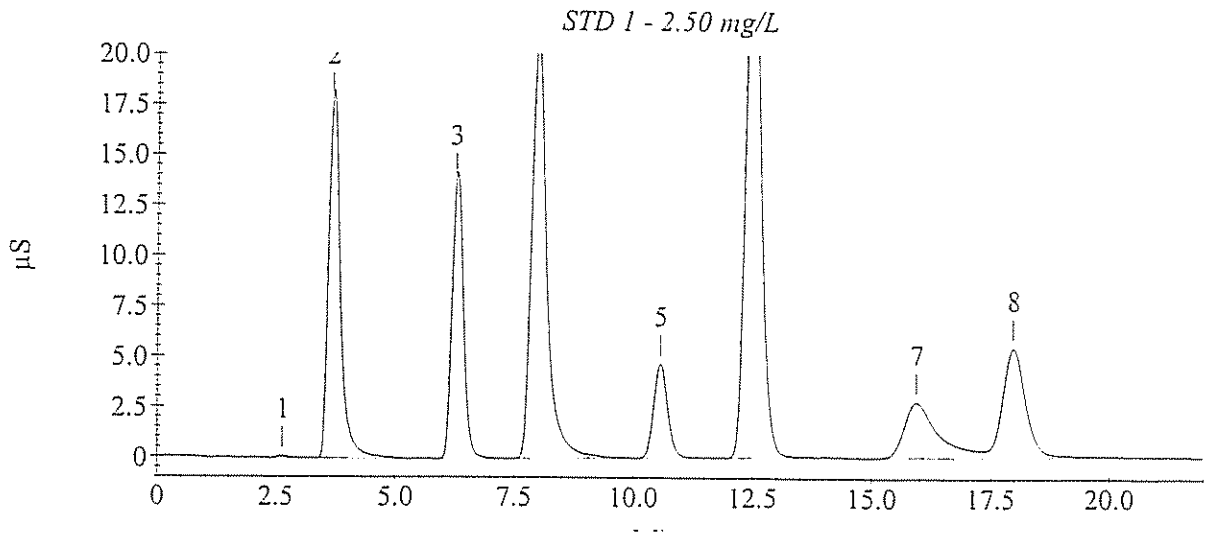
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



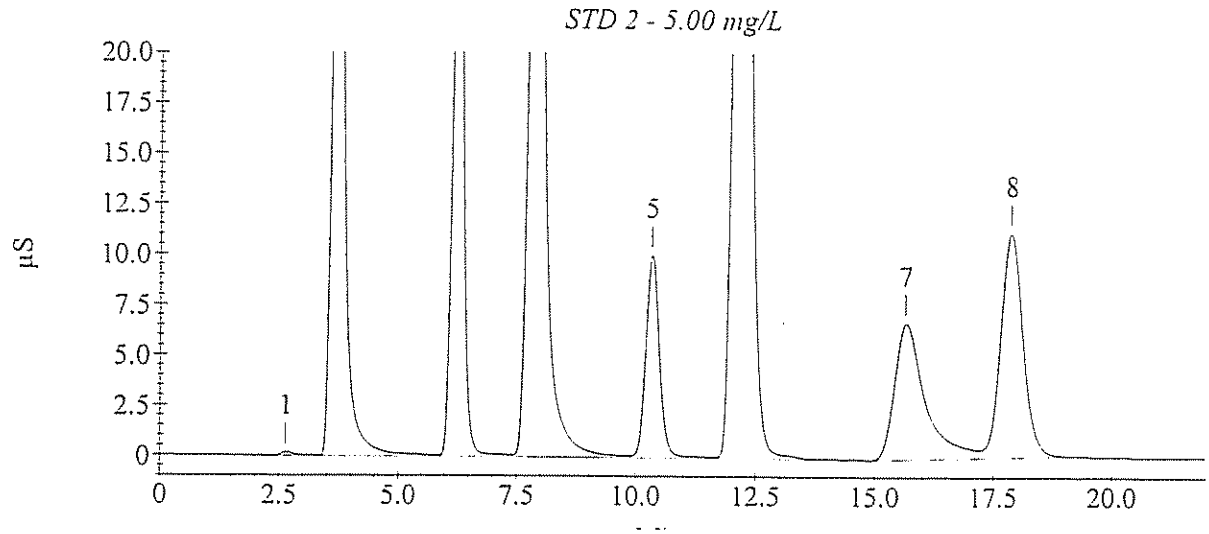
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077



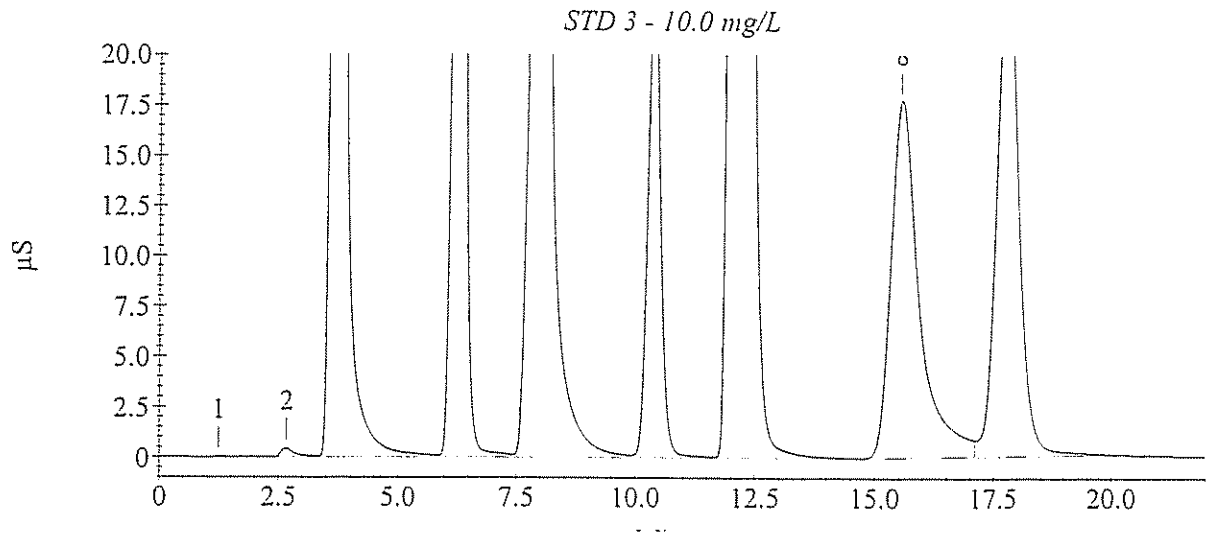
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944



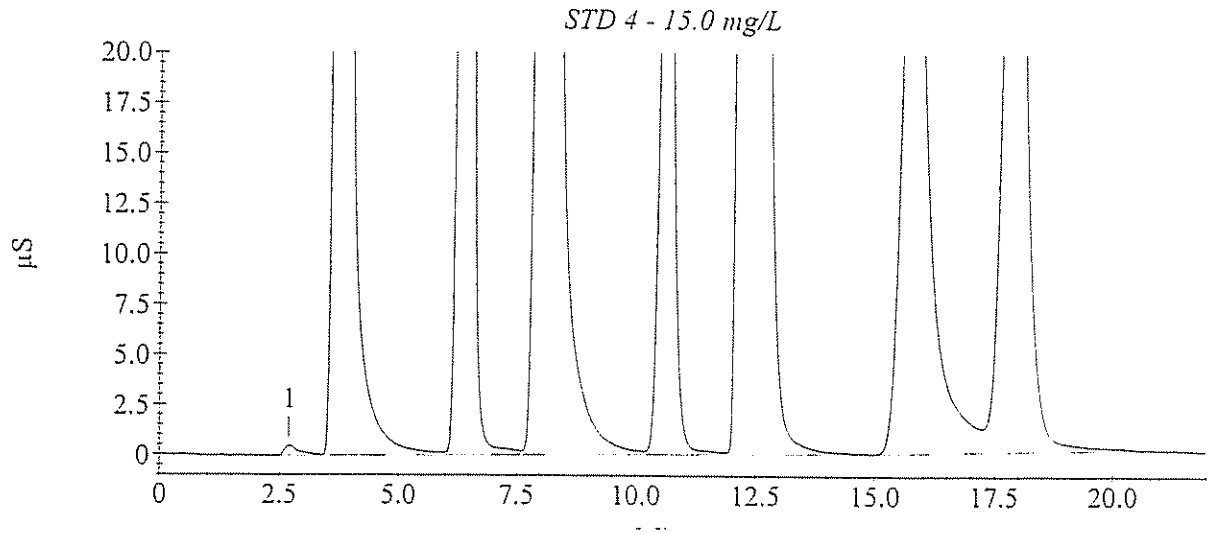
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



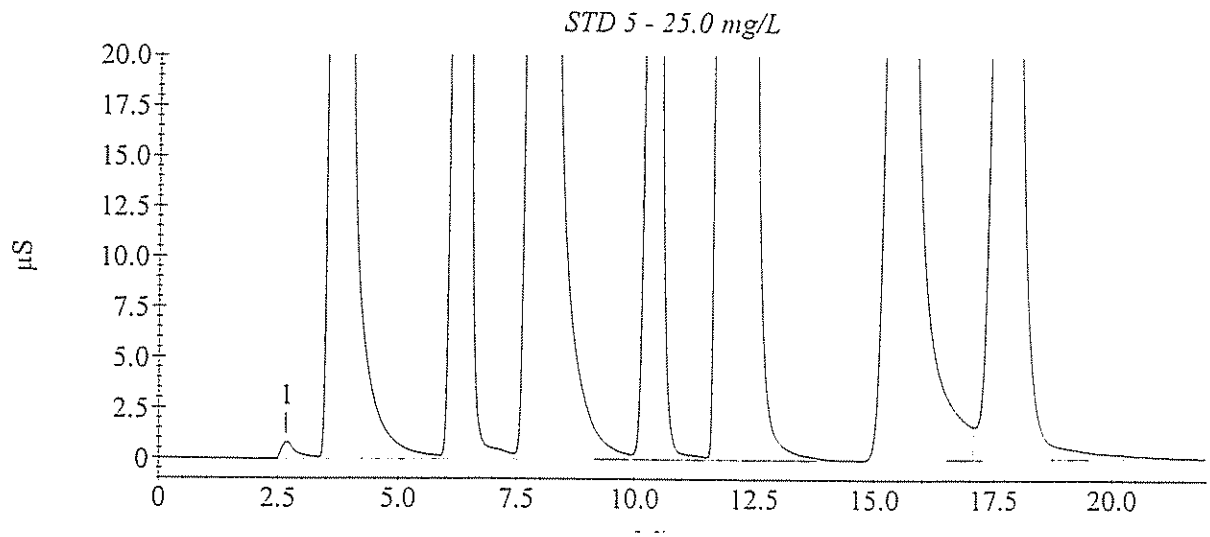
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



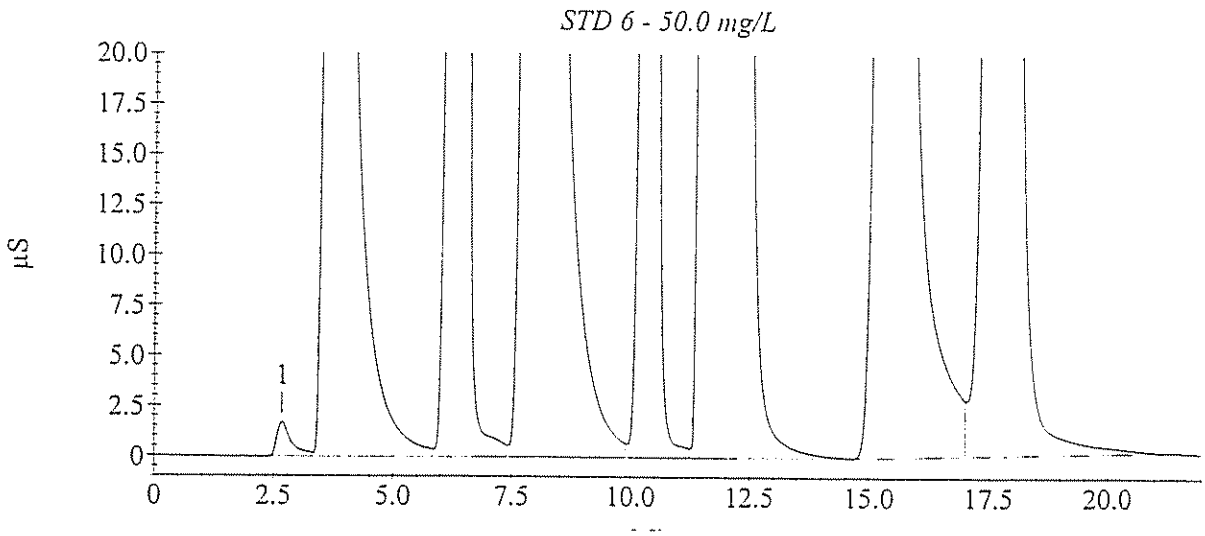
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829



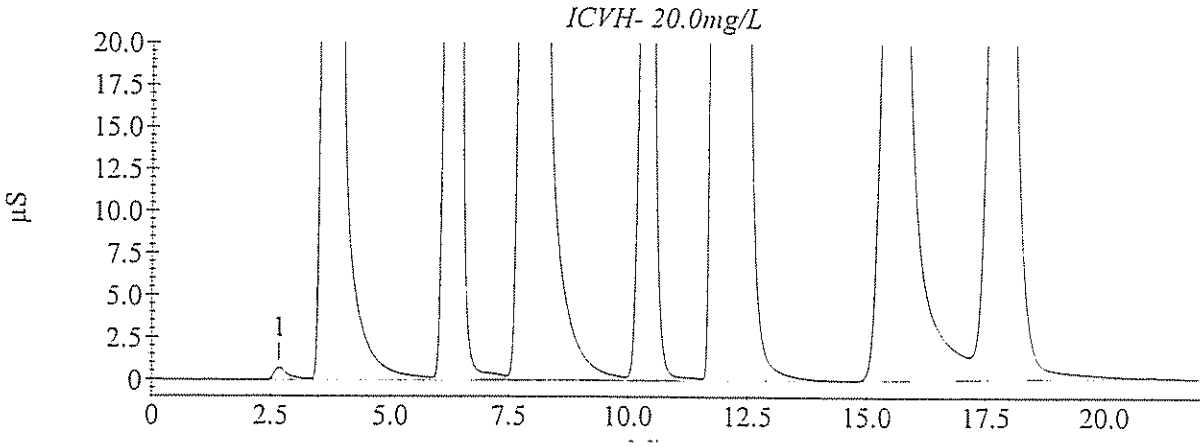
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



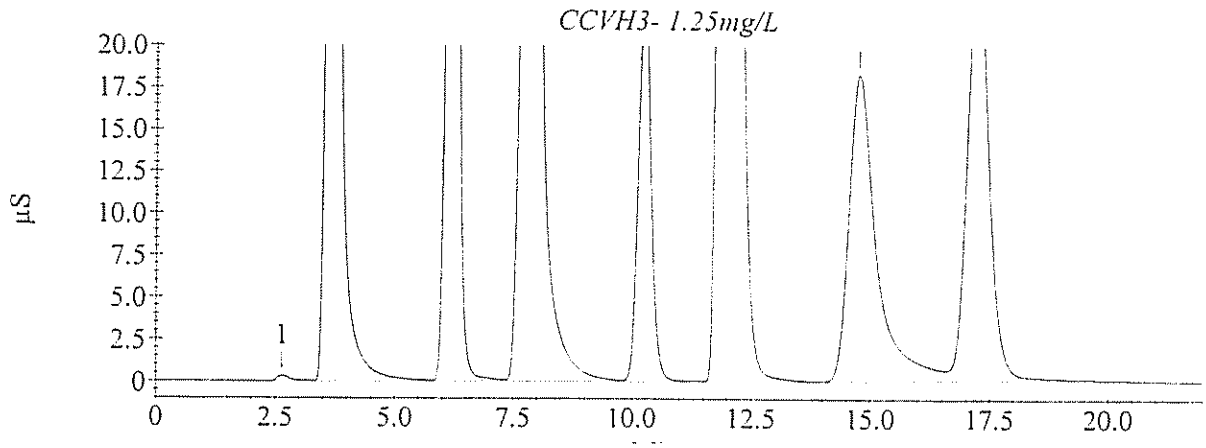
Sample Analysis Report

Sample Name : CCVH3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__037.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 3:47:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	9.671	13912167	763604
3	Chloride	6.17	9.516	11186718	685205
4	Nitrite-N	7.83	12.045	19010762	835902
5	Bromide	10.23	9.404	4306633	228108
6	Nitrate-N	11.90	9.841	30945297	1256793
7	Phosphate-P	14.77	9.517	7318148	182147
8	Sulfate	17.20	9.457	7949216	248531



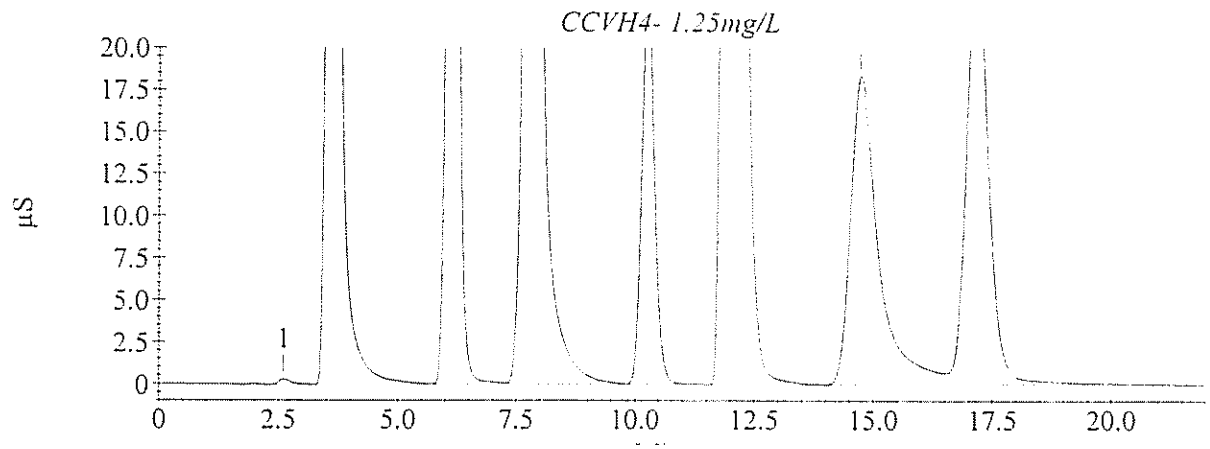
Sample Analysis Report

Sample Name : CCVH4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__046.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 7:32:34 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	9.723	13987121	757655
3	Chloride	6.13	9.562	11251043	691702
4	Nitrite-N	7.80	12.076	19050948	851488
5	Bromide	10.27	9.473	4346222	230035
6	Nitrate-N	11.93	10.008	31535639	1238138
7	Phosphate-P	14.73	9.678	7493663	182812
8	Sulfate	17.13	9.701	8198816	251245



D. Raw QC Data

1. Extraction Logsheet (where applicable)

2. Injection Logsheet (where applicable)

GPL Laboratories, LLLP

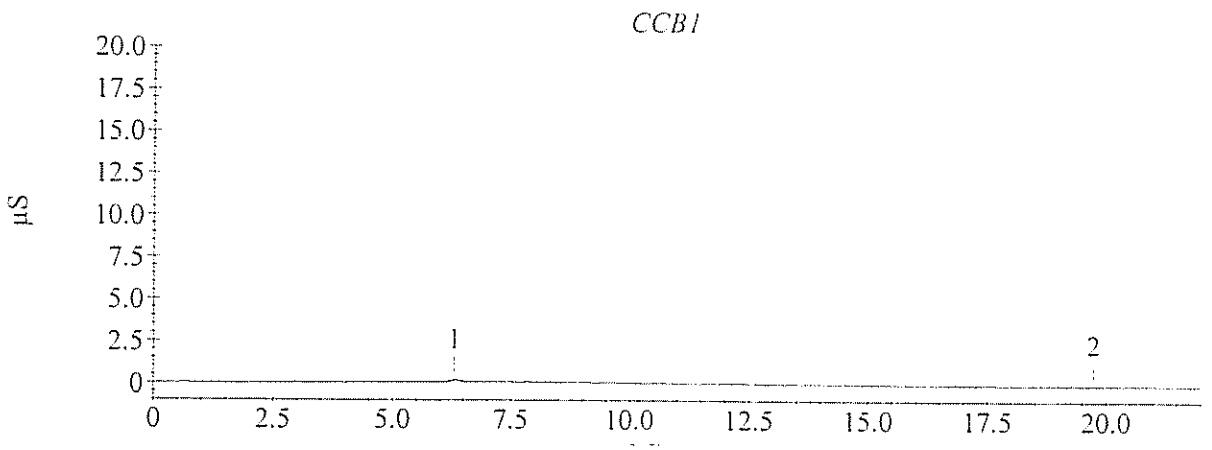
Sample Analysis Report

Sample Name : CCB1
Data File Name : I:\ICDATA\IC500\090313\090313__010.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 4:01:18 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Chloride	6.30	0.043	21341	1210
1	Chloride	6.30	0.043	21341	1210
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
2	Sulfate	19.73	0.034	6382	313



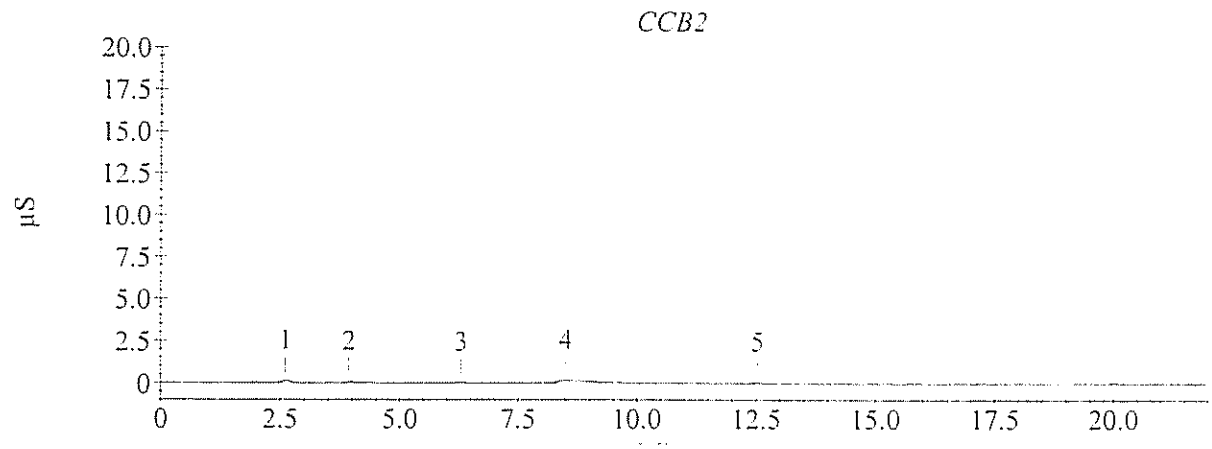
Sample Analysis Report

Sample Name : CCB2
Data File Name : I:\ICDATA\IC500\090313\090313__022.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 9:02:47 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.93	0.052	14595	646
3	Chloride	6.30	0.023	4221	296
4	Nitrite-N Bromide	8.50	0.066	66045	1543
5	Nitrate-N Phosphate-P Sulfate	12.53	0.069	4694	267



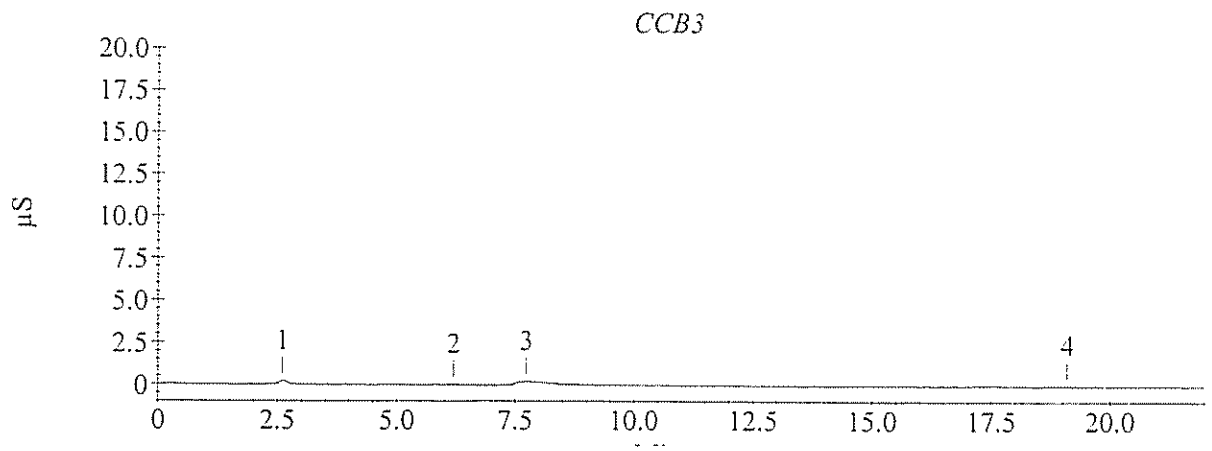
Sample Analysis Report

Sample Name : CCB3
Data File Name : I:\ICDATA\IC500\090325\090325__038.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/26/09 4:12:07 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	27989	1953
2	Chloride	6.20	0.025	8154	409
3	Nitrite-N	7.73	0.036	100379	2047
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



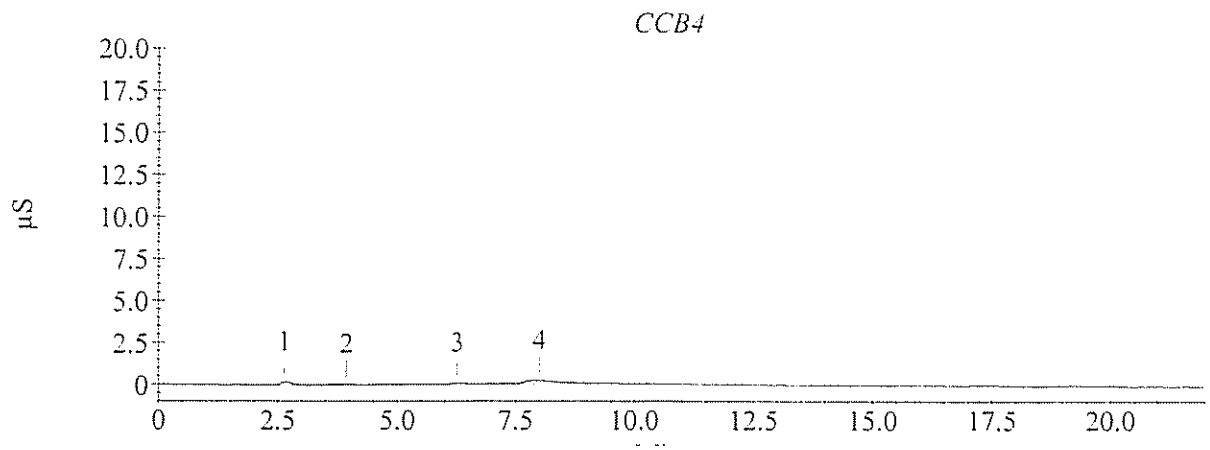
Sample Analysis Report

Sample Name : CCB4
Data File Name : I:\ICDATA\IC500\090325\090325__047.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/26/09 7:57:38 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.93	0.020	12125	493
3	Chloride	6.27	0.054	35149	885
4	Nitrite-N	8.00	0.032	93796	1809
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



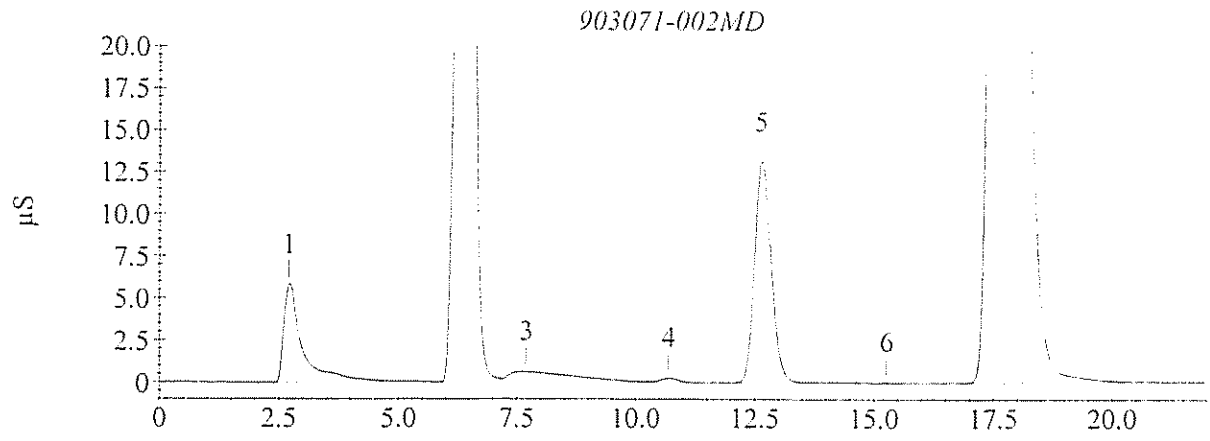
Sample Analysis Report

Sample Name : 903071-002MD
Data File Name : I:\ICDATA\IC500\090313\090313__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 6:06:54 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.249	1569385	57849
2	Chloride	6.47	16.438	14066644	656536
	Nitrite-N				
4	Bromide	10.70	0.189	62502	2475
5	Nitrate-N	12.63	1.360	3190376	130325
	Phosphate-P				
7	Sulfate	17.67	85.127	52323887	1426806



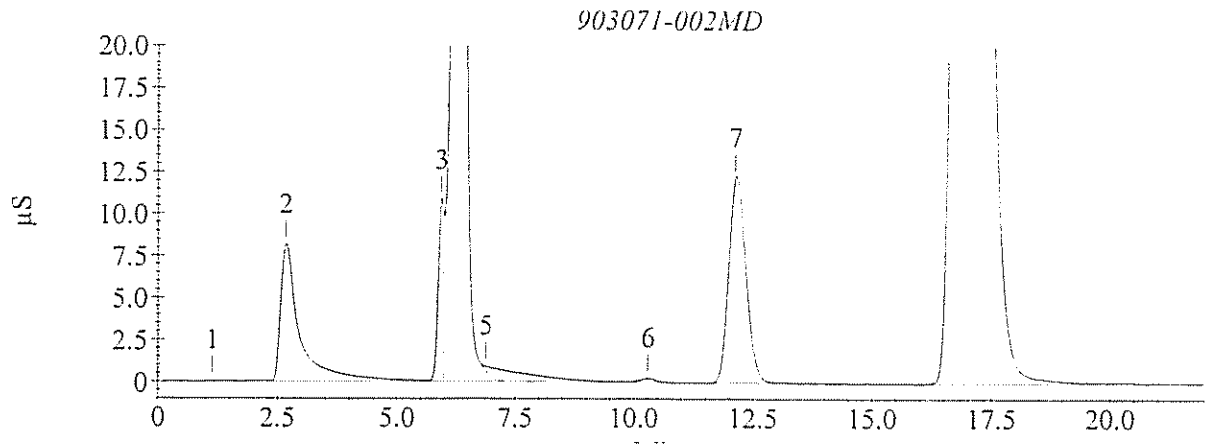
Sample Analysis Report

Sample Name : 903071-002MD
Data File Name : I:\ICDATA\IC500\090325\090325__042.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/26/09 5:52:18 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		1.13	0.000	9485	339
4	Chloride Nitrite-N	6.30	10.146	12053737	628699
6	Bromide Nitrate-N Phosphate-P Sulfate	10.30	1.992	44951	2027



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-019-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/13/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	17	
14797-55-8	Nitrate	2.4	
7727-37-9	Nitrite	1.1	

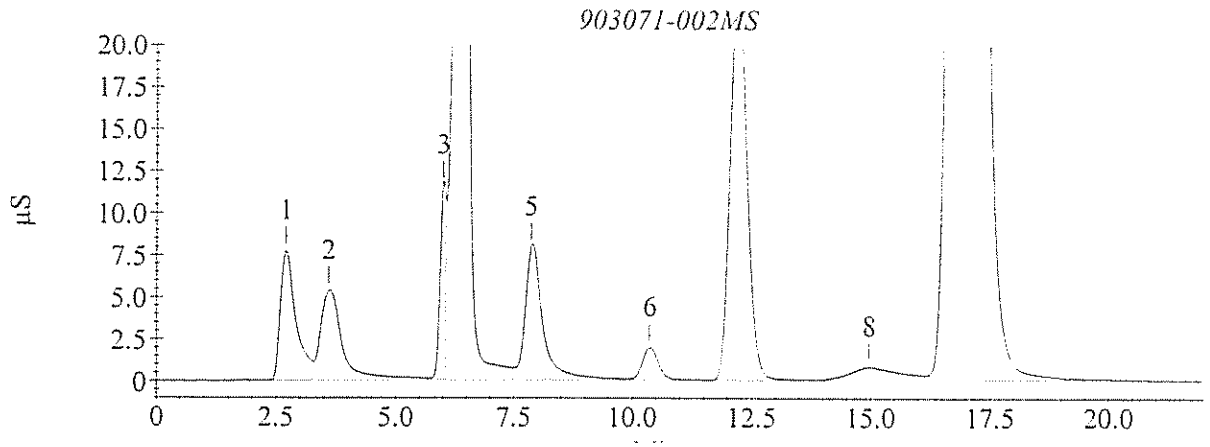
Sample Analysis Report

Sample Name : 903071-002MS
Data File Name : I:\ICDATA\IC500\090325\090325__043.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/26/09 6:17:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	1.405	1715853	53150
4	Chloride	6.37	14.787	13494533	698419
5	Nitrite-N	7.87	1.145	2076859	78729
6	Bromide	10.37	1.167	437773	19069
7	Nitrate-N	12.17	2.374	5796131	234634
8	Phosphate-P	14.97	1.059	548971	7618
9	Sulfate	16.87	71.115	50915959	1329536



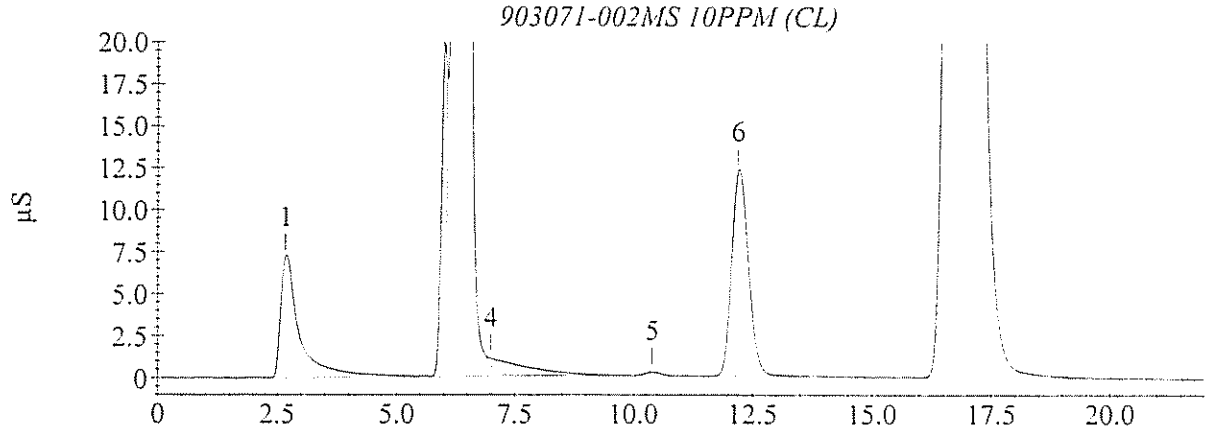
Sample Analysis Report

Sample Name : 903071-002MS 10PPM (CL)
Data File Name : I:\ICDATA\IC500\090325\090325__044.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 6:42:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	2023235	71202
3	Chloride Nitrite-N	6.37	17.406	22038129	1116641
5	Bromide Nitrate-N Phosphate-P Sulfate	10.40	1.917	1827	22



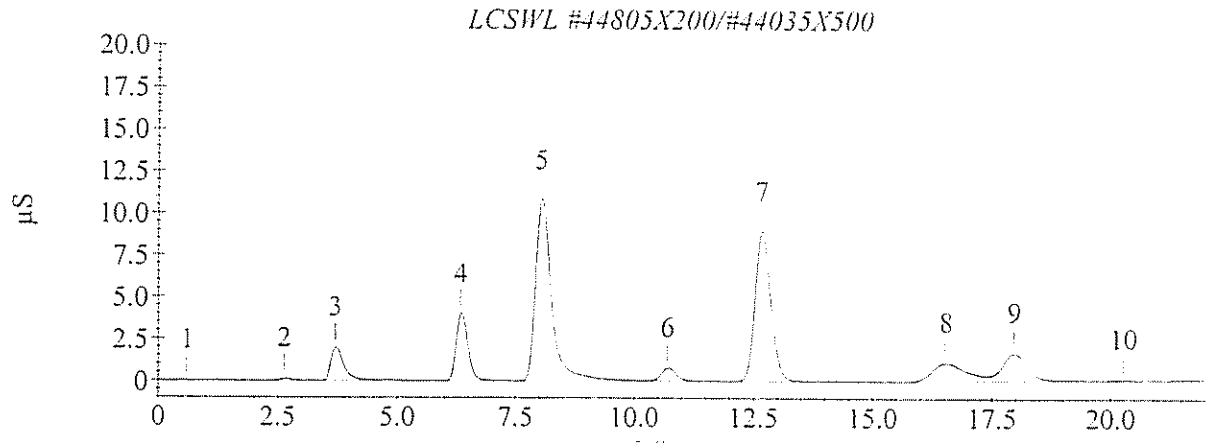
Sample Analysis Report

Sample Name : LCSWL #44805X200/#44035X500
Data File Name : I:\ICDATA\IC500\090313\090313__011.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/13/09 4:26:28 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
3	Fluoride	3.70	0.329	374350	19675
4	Chloride	6.33	0.824	690433	39615
5	Nitrite-N	8.03	1.475	2567265	106995
6	Bromide	10.70	0.458	161334	7513
7	Nitrate-N	12.67	0.908	2073564	88667
8	Phosphate-P	16.53	0.719	533326	10842
9	Sulfate	17.97	0.991	594824	16236



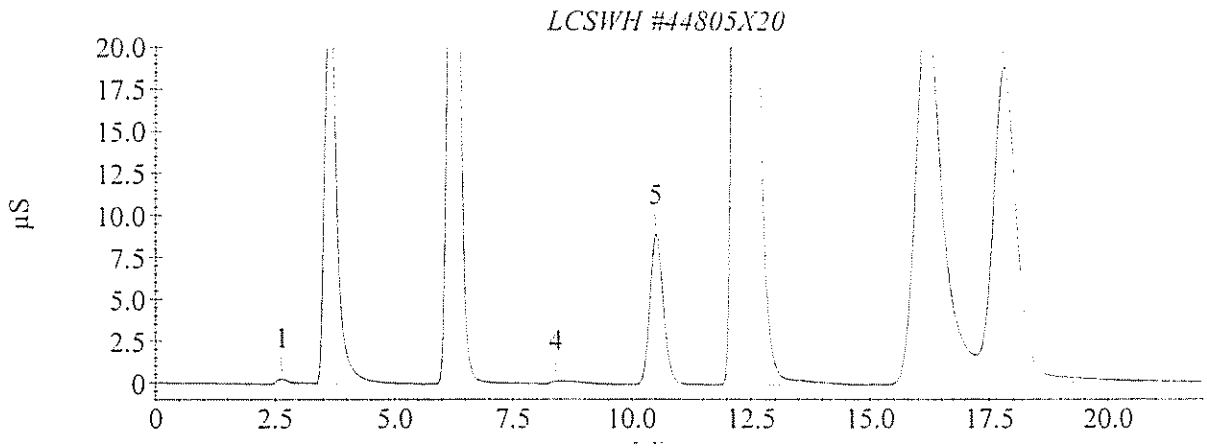
Sample Analysis Report

Sample Name : LCSWH #44805X20
Data File Name : I:\ICDATA\IC500\090313\090313__012.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/13/09 4:51:33 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	3.142	4232068	242182
3	Chloride	6.23	7.741	8351886	517848
	Nitrite-N				
5	Bromide	10.50	5.129	1771218	88749
6	Nitrate-N	12.27	9.303	27834790	1111430
7	Phosphate-P	16.20	9.052	8690787	225168
8	Sulfate	17.80	9.513	6721745	187270



ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date: _____

Analyte(s):	F, Cl, NO_2-N, Br, NO_3-N, PO_4, SO_4
Analysis Method:	E300
Backpressure:	2031 psi Conductivity: 23.068 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #013201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 080917L-300.met / 080917H-300.met ICAL Date: 9/17/08 Analyst: JCSA

Seq. ID. 080917-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
080917-001.dxd	Rinse				
2	Rinse				
3	Std1 - Col Blank	1	Std	9/17/08	080917L
4	Std 2 - 0.10 mg/L	1			
5	Std 3 - 0.25 mg/L	1			
6	Std 4 - 0.50 mg/L	1			
7	Std 5 - 1.00 mg/L	1			
8	Std 6 - 2.50 mg/L	1			↓
9	Std 1 - 2.50 mg/L	1			080917H
10	Std 2 - 5.00 mg/L	1			
11	Std 3 - 10.0 mg/L	1			
12	Std 4 - 15.0 mg/L	1			
13	Std 5 - 25.0 mg/L	1			
14	Std 6 - 50.0 mg/L	1			↓
15	ICVL - 1.25 mg/L	1			
16	ICVH - 20.0 mg/L	1			
17	ICB	1	↓		
18	LCSWL #43967x125 / #44035x500	125/500			
19	LCSWH #43967 x 10	10	↓	↓	
20	809080-001	1	H_2O	9/18/08	
21	↓ -001MA	1			
22	↓ -001MS	1	↓		
23	ICVL - 1.25 mg/L	1	Std		
24	CCVH1 - 20.0 mg/L	1			
080917-025.dxd	CCB1	1	↓	↓	

Remarks

★ #43967 T.V.'s (mg/L)

F = 10.6
Cl = 20.4
NO_3-N = 82.4
SO_4 = 202

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate eluent	43991 9mM 8/25/08
Mixed Anions Stock Std	43504 100 PPM 6/26/08
Mixed Anions QC Std	43967 ★ exp's 7/1/10
Nitr. & QC Std	44035 732 mg/L exp's 8/1/10
Mixed Anions ~~Std~~ Stock Std (ICV)	44123 100 ppm 9/17/08

Supersedes GP_IC_035

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	F, Cl, SO_4, Br, NO_3-N, PO_4-P, NH_2-N
Analysis Method:	E300
Backpressure:	2200 psi Conductivity: 23.791 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC # 012201
Analysis Column ID:	AS9-HC # 012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.met / 090318H-300-0.met ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090318-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090318-001.dxd	Rinse	—	—	—	
2	ICVLA - 1.25 mg/L	1	Std	3/18/09	
3	ICVLB - 1.25 mg/L	1			
4	ICB	1			
5	Std1 - BLK	1			090318L
6	Std2 - 0.10 mg/L	1			
7	Std3 - 0.25 mg/L	1			
8	Std4 - 0.50 mg/L	1			
9	Std5 - 1.00 mg/L	1			
10	Std6 - 2.50 mg/L	1			↓
11	Std1 - 2.50 mg/L	1			090318H
12	Std2 - 5.00 mg/L	1			
13	Std3 - 10.0 mg/L	1			
14	Std4 - 15.0 mg/L	1			
15	Std5 - 25.0 mg/L	1			
16	Std6 - 50.0 mg/L	1			↓
17	ICVL - 1.25 mg/L	1			
18	ICVH - 20.0 mg/L	1			
19	ICB	1	↓		
20	BLK903095	1	wipe		
21	BLS903095	1			
22	903095-001	1			
23	BLK903105	1			
24	BLS903105	1			
25	903105-001	1			
26	↓ -002	1			
090318-027.dxd	↓ -003	1	↓	3/18/09	

Remarks

☆ # 45307 [I.V.] 5 (mg/L)
Cl: 157.8
NO_3-N: 187.2
SO_4: 168.6

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45373 9 mM 3/12/09
Mixed Anions Stock Std (wrive)	45405 100 mg/L 3/18/09
Mixed Anions Stock Std (ICVICV)	45026 100 mg/L 1/26/09
Mixed Anions QC Std	45307 ☆ exp's 11/1/11
Nitrate QC Std	44035 732 mg/L exp's 8/1/11

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By: _____ Review Date: _____

Analytes(s):	Cl NO2-N NH3-N, SO4
Analysis Method:	E300
Backpressure:	2174 psi Conductivity: 23.723 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #032201
Analysis Column ID:	AS9-HC #017518
ATC ID:	N/A

ICAL Method File: 080917L-300-0.met / 080917H-300-0.met ICAL Date: 9/17/08 Analyst: JCSA

Seq. ID. 090313-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090313-001.chd	Rinse	—	—	—	
2	ICVH-20.0 mg/L	1	Std	3/13/09	
3	ICB	1	↓	↓	
4	902191-002 5x	5	H2O		
5	902185-016 50x	50			
6	↓ -014 5x	5	↓		
7	CCVL1-1.25 mg/L	1	Std		Cl High. Room
8	CCVH1-20.0 mg/L	1			
9	CCVL1-1.25 mg/L	1			
10	CCB1	1			
11	LCSWL #4480 5x200/4480 5x50	200/500			
12	LCSWH #4480 5x20	20	↓		
13	903071-001	1	H2O		
14	-002	1			
15	-002MD	1			
16	-002MS	1			
17	-003	1			
18	-004	1			
19	↓ -005	1	↓		
20	CCVL2-1.25 mg/L	1	Std		
21	CCVH2-20.0 mg/L	1		↓	
090313-022.chd	CCB2	1	↓	3/13/09	

Remarks

★ #44805 T.V.'s (mg/L)
Cl = 158
NO_3-N = 187

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45373 9mM 3/12/09
Mixed Anions Stock Std	45325 100 mg/L 3/5/09
Mixed Anions BC Std	44805 ★ Prep'd 1/1/11
Nitride QC Std	43035 732 mg/L Prep'd 8/1/11

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N, SO_4
Analysis Method:	6300
Backpressure:	2427 µS Conductivity: 2187 psi
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #013201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.mth / 090318H-300-0.mth ICAL Date: ~~ES~~ 3/18/09 Analyst: JCSA

Seq. ID. 090325-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090325-001.dxd	Rinse	✓	✓	✓	
2	ICVL-1.25	1	Std	3/25/09	
3	ICB	1	↓		
4	903106-005 5x	5	wipe		
5	-005 10x	10			
6	-010 5x	5			
7	-011 5x	5			
8	-012 5x	5	↓		
9	LCSd #44307 x200/#44035 x100	200/500	Std		
10	CCVL1-1.25 mg/L	1			
11	CCVH1-10.0 mg/L	1			
12	CCB1	1			
13	LCSWH #44307 x20	20			
14	903182-001	1	H_2O		
15	-002	1			
16	-003	1			
17	-004	1			
18	-005	1			
19	-006	1			
20	-006MD	1			
21	-006MS	1	↓		
22	903141-003 5x	5	wipe		
23	CCVL2-1.25 mg/L	1	Std		
24	CCVH2-10.0 mg/L	1			
25	CCB2	1	↓		
26	903141-004 5x	5	wipe		
090325-027.dxd	903052-002	1	H_2O	3/25/09	

Remarks #44307 T.V.'s (mg/L)
Cl= 157.8
NO_3-N= 187.2
SO_4= 158.6

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45140 9mM 3/21/09
Mixed Anion Stock Std	45405 100 mg/L 3/18/09
Mixed Anion QC Std	#44307 ★ exp's
Nitrite QC Std	#44035 752 mg/L exp's
Chloride Stock Std	43551 1000 mg/L exp's 4/1/10
Nitrate Stock Std	43599 1000 mg/L exp's 1/1/11

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N, SO_4
Analysis Method:	E300
Backpressure:	2427 psi Conductivity: 2187 psi
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	/
Eluent level check:	✓

Guard Column ID:	
Analysis Column ID:	See p. 46
ATC ID:	

ICAL Method File: 090318L-300-0.mth / 090318H-300-0.mth ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090325-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090325-028.dxd	903057-002MD	1	H_2O	3/26/09	
29	↓ -002MS 10ppm(SO_4)	1			
30	903062-005	1			
31	-005MD	1			
32	-005 MS	1			
33	↓ -005 MS 10ppm(Cl)	1			
34	903093-007 10x	10			
35	↓ -007	1	↓		
36	CCVL3 - 1.25 mg/L	1	Std		
37	CCVH3 - 10.0 mg/L	1			
38	CCB3	1	↓		
39	903093-008MD	1	H_2O		
40	↓ -008 MS 10ppm(Cl)	1			
41	903071-002	1			
42	-002MD	1			
43	-002 MS	1			
44	↓ -002 MS 10ppm(Cl)	1	↓		
45	CCVL4 - 1.25 mg/L	1	Std		
46	CCVH4 - 10.0 mg/L	1		↓	
090325-047.dxd	CCB4	1	↓	3/26/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
	See p. 46	

SAMPLE DATA PACKAGE

RSK 175 DATA

A. QC Summary

B. Sample Data

C. Standards Data

D. Raw QC Data

GPL Laboratories

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903071

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Six water samples were received on 03/13/2009. The samples were delivered by Federal Express. Sample receipt conditions an temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soi are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Six water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
The surrogate recoveries and internal standard responses were within the QC limits.
A matrix spike and matrix spike duplicate were shared from work order 903080. The RPDs of two compounds, out of forty-nine, were outside of the RPD QC limits, and sixteen spike recoveries, out of ninety-eight, were outside of the QC limits.
A laboratory control sample was analyzed along with each of the sample batches. BKS108792 had eight spike recoveries outside of the QC limits. BKS108803 had six spike recoveries outside of the QC limits. BKS108804 had four spike recoveries outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrate compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

General Chemistry

Five water samples were analyzed for Sulfide by EPA method 376.1. A duplicate analysis was performed on sample OU1-16GW33-0309. All QC criteria were met.

Five water samples were analyzed for Total Organic Carbon by SW846 method 9060. All samples were analyzed in quadruplicate. A matrix spike analysis was performed in duplicate on sample OU1-16GW30-0309. All QC criteria were met.

Other Analysis

Five water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were shared with work order 903062. All of the RPDs were within the RPD QC limits, and all spike recoveries were within the QC limits.

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OUI-16GW01-0309MSD

Lab Name : GPL Laboratories SDG NO : 903062 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903062-006-032-1/2MSD Matrix : WATER Analysis Date : 03/20/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	31	31	0.0	30	29	97	94	3	25	80-120
Ethene	29	29	0.0	26	25	90	86	5	25	80-120
Methane	16	16	0.0	16	16	100	100	0	25	80-120

516 of 617

Column to be used to flag recovery and RPD Values with an asterisk.

*Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 0 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108833

Lab Name : GPL Laboratories Client. : CH2M Hill Inc

Lab Code : GPL SAS NO. : 903071

Lab File ID : G262618.D SDG NO : 903071

Date Analyzed 03/24/2009 Lab Sample ID : BLK108833

GC Column : _____ ID. RTX_VC Time Analyzed : 07:28

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW30-0309	903071-003-032-1/2	G262630.D	10:56
OU1-16GW30-0309DL	903071-003-033-2/2	G262632.D	11:26
OU1-16GW31-0309	903071-004-034-1/2	G262631.D	11:12
OU1-16GW31-0309DL	903071-004-035-2/2	G262633.D	11:44
OU1-16GW33-0309	903071-001-028-1/2	G262625.D	09:36
OU1-16GW33-0309DL	903071-001-029-2/2	G262627.D	10:10
OU1-16MW28-0309	903071-002-030-1/2	G262626.D	09:55
OU1-S3W3-0309	903071-005-036-1/2	G262634.D	11:59
OU1-S3W3-0309DL	903071-005-037-2/2	G262635.D	12:32

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-028-1/2
Sample Volume :	10	Lab File ID :	G262625.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3500	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262625.D Vial: 9
Acq On : 24 Mar 2009 9:36 Operator: TG
Sample : 903071-001 Inst : GC-G
Misc : OU1-16GW33-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 9:45 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.65	547072	3499.329	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

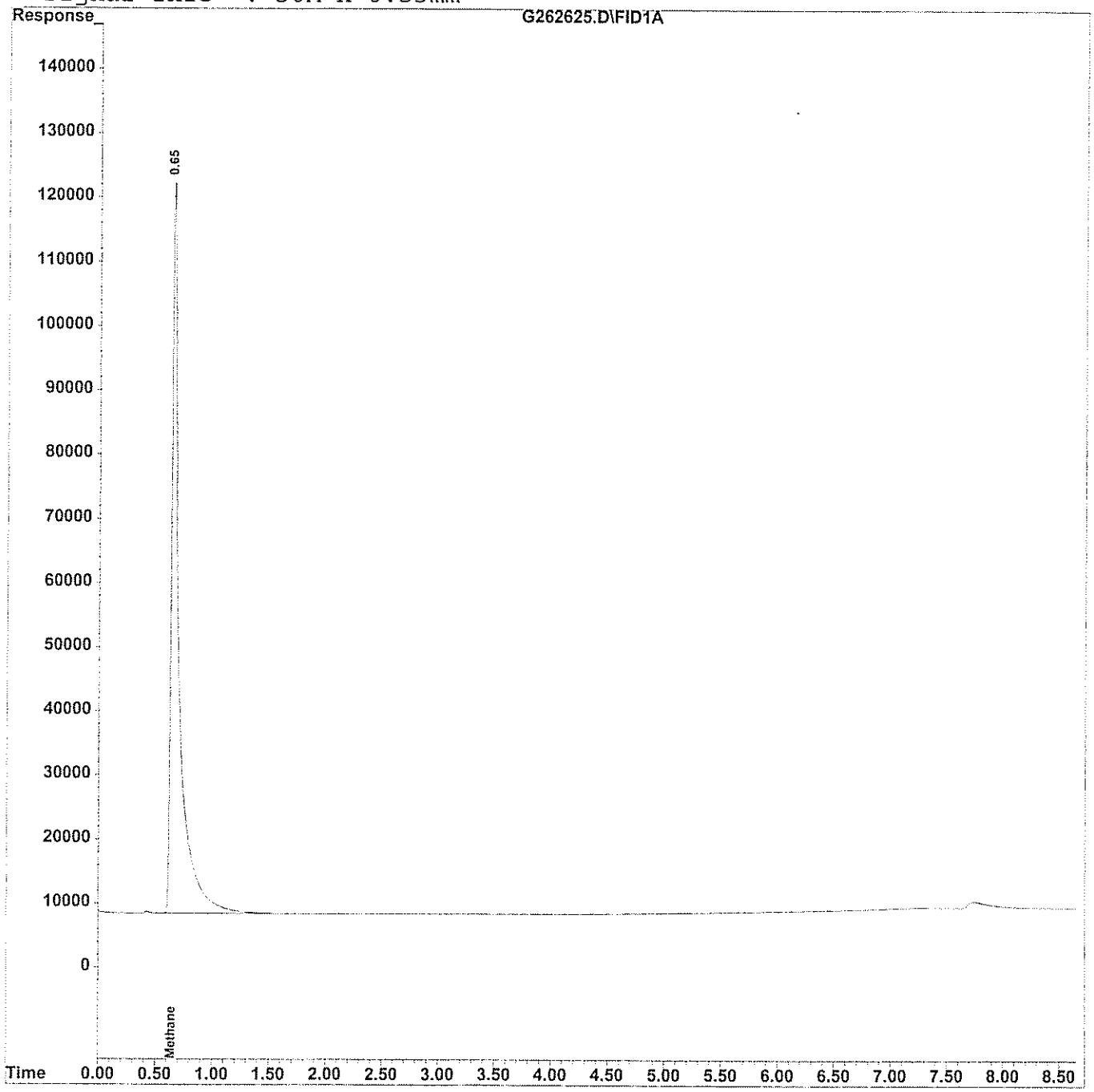
(f)=RT Delta > 1/2 Window (m)=manual integ
G262625.D RSK0320.M Wed Mar 25 12:30:36 2009 W28_IOANNIDE Page 1

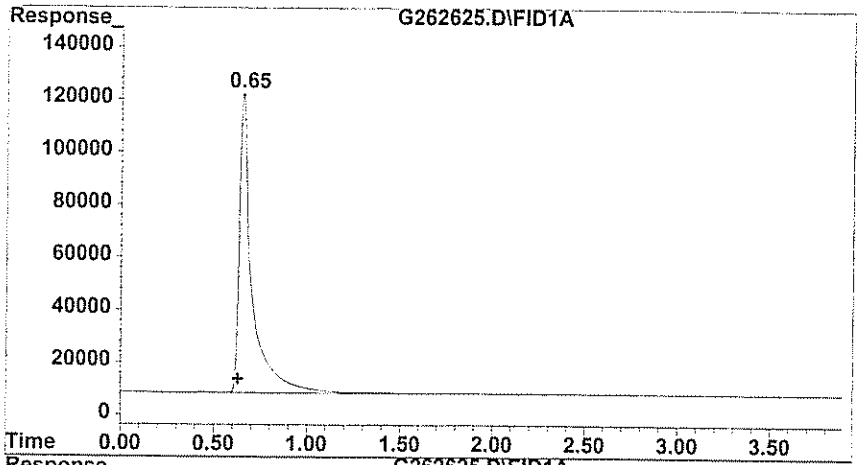
Quantitation Report

Data File : H:\GCDATA\G\032409\G262625.D Vial: 9
Acq On : 24 Mar 2009 9:36 Operator: TG
Sample : 903071-001 Inst : GC-G
Misc : OU1-16GW33-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 9:45 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

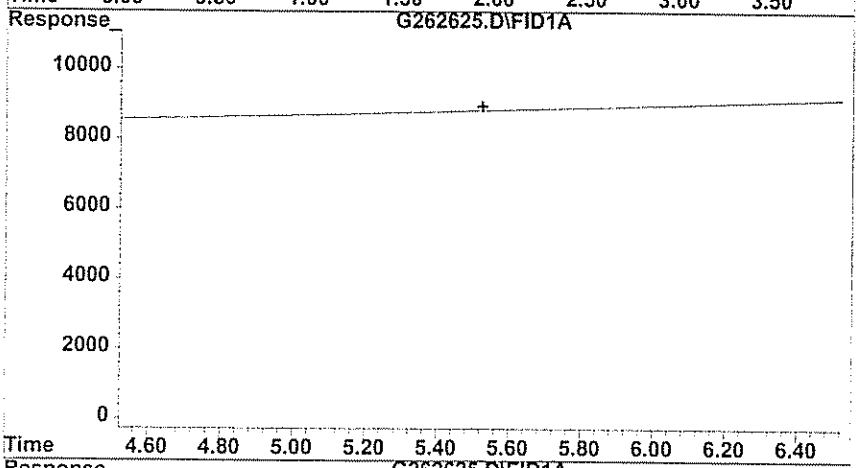
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





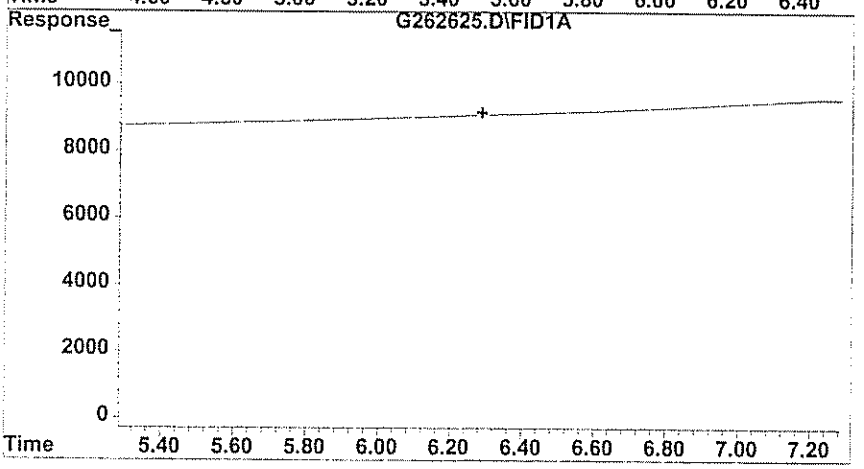
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.023 min
Response: 547072
Conc: 3499.33 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW33-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-001-029-2/2
Sample Volume :	.02	Lab File ID :	G262627.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	3100	U
74-85-1	Ethene	2900	U
74-82-8	Methane	10000	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262627.D Vial: 11
Acq On : 24 Mar 2009 10:10 Operator: TG
Sample : 903071-001DL Inst : GC-G
Misc : OU1-16GW28-0309,CH2M,WATER,10ML,500X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 10:19 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.64	3188	20.392	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int

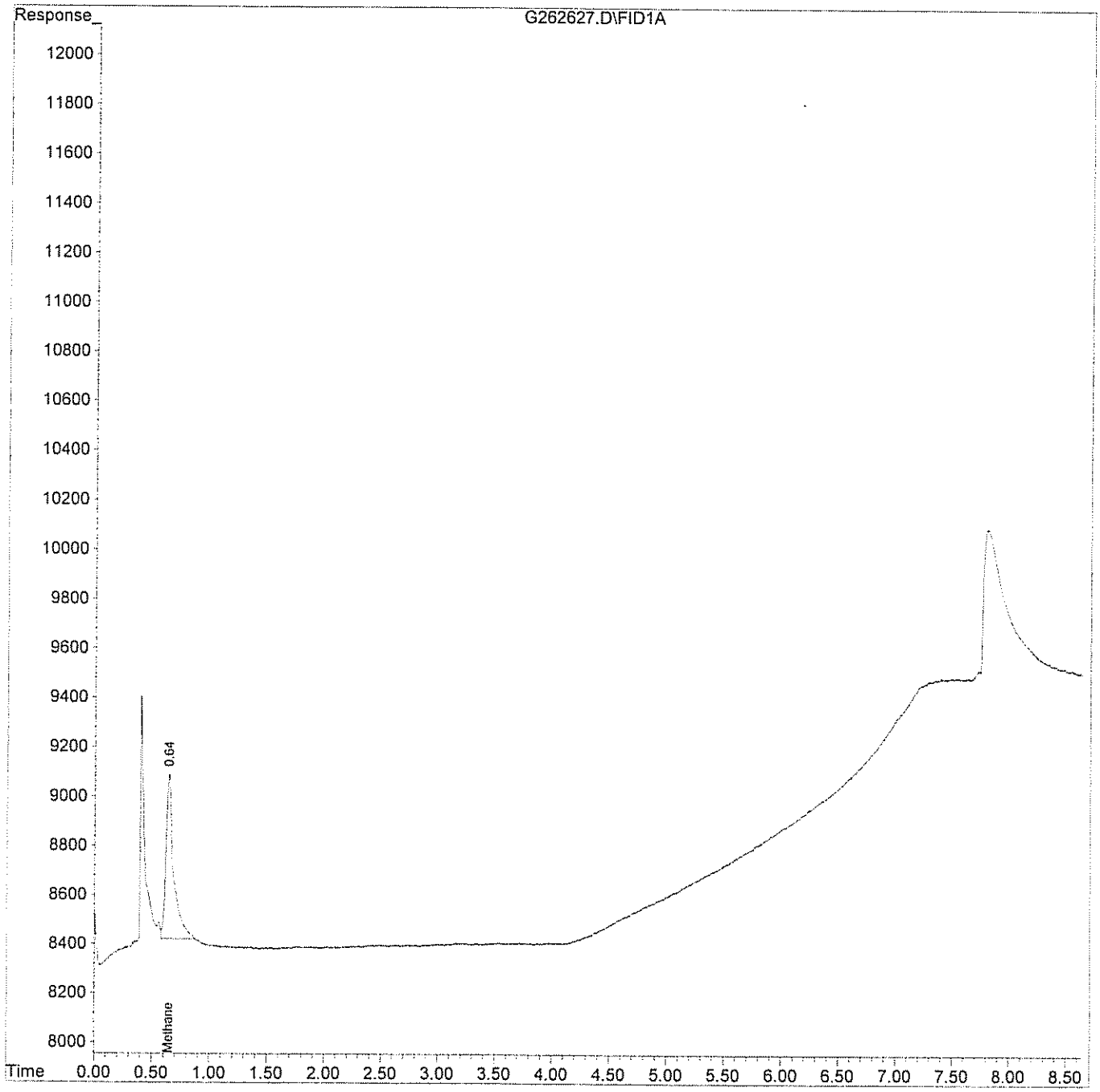
Quantitation Report

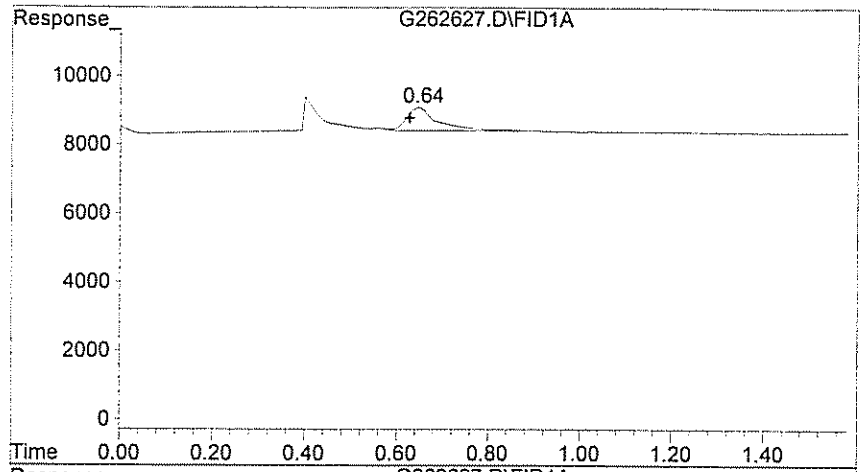
Data File : H:\GCDATA\G\032409\G262627.D
Acq On : 24 Mar 2009 10:10
Sample : 903071-001DL
Misc : OU1-16GW28-0309,CH2M,WATER,10ML,500X
IntFile : rteint.p
Quant Time: Mar 24 10:19 2009 Quant Results File: RSK0320.RES

Vial: 11
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

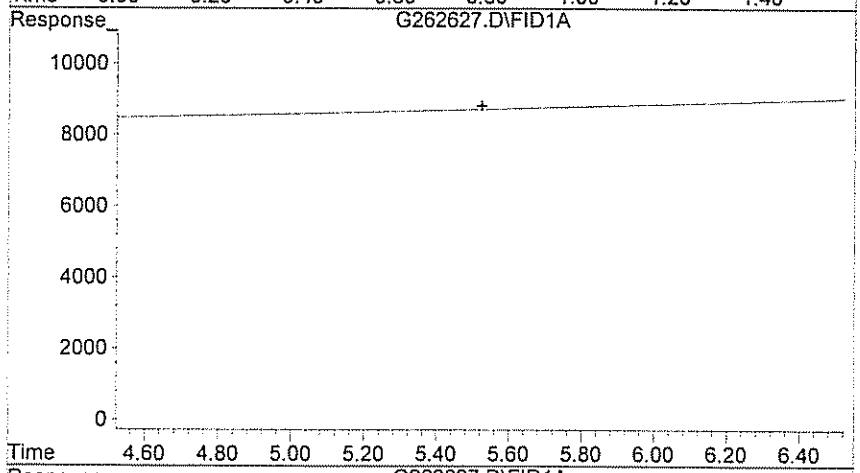
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





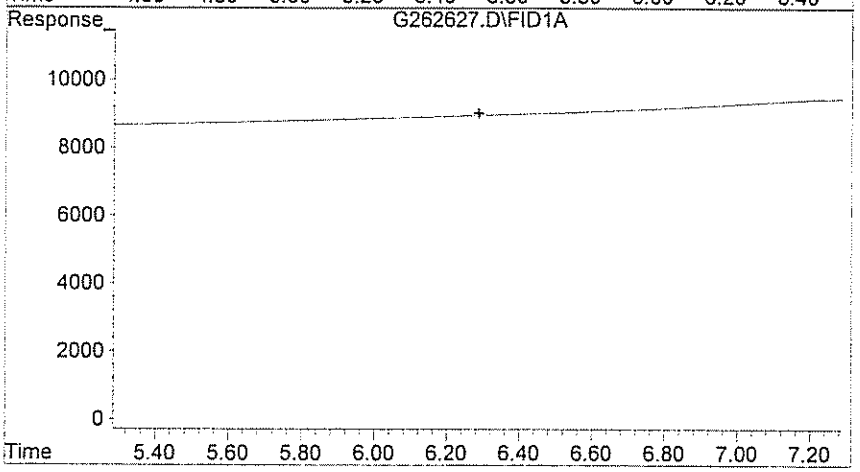
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 3188
Conc: 20.39 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16MW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-002-030-1/2
Sample Volume :	10	Lab File ID :	G262626.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	8.0	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262626.D Vial: 10
Acq On : 24 Mar 2009 9:55 Operator: TG
Sample : 903071-002 Inst : GC-G
Misc : OU1-16GW28-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 10:05 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	1243	7.951	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	d

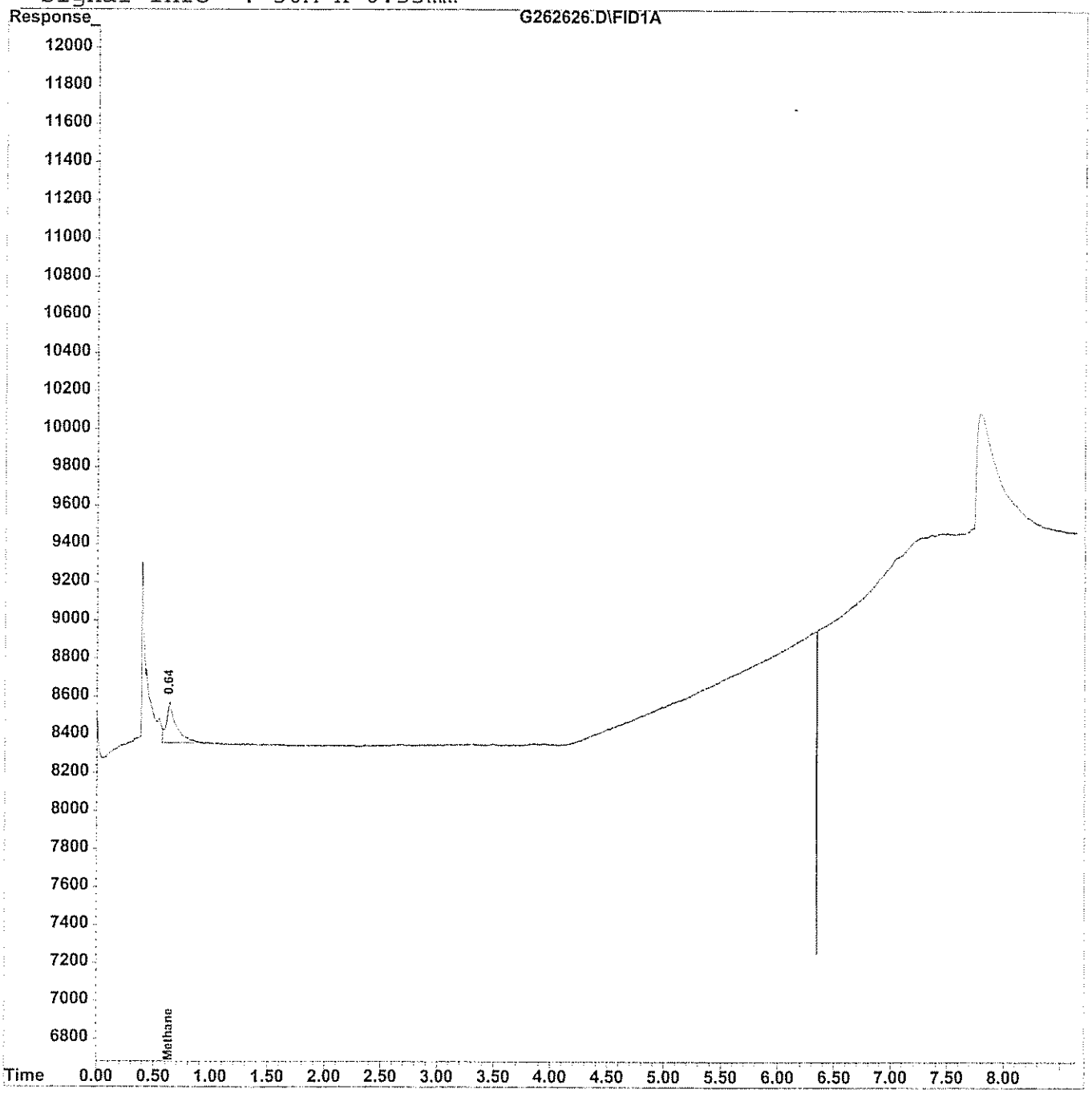
(f)=RT Delta > 1/2 Window (m)=manual int

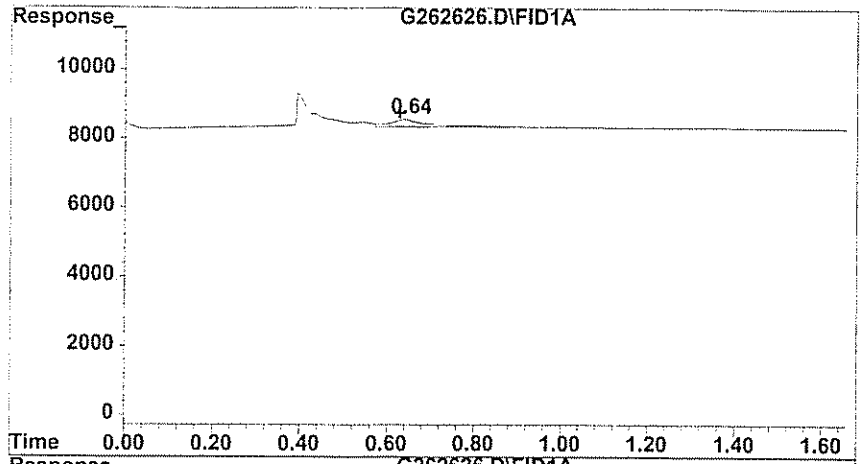
Quantitation Report

Data File : H:\GCDATA\G\032409\G262626.D Vial: 10
Acq On : 24 Mar 2009 9:55 Operator: TG
Sample : 903071-002 Inst : GC-G
Misc : OU1-16GW28-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 10:05 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

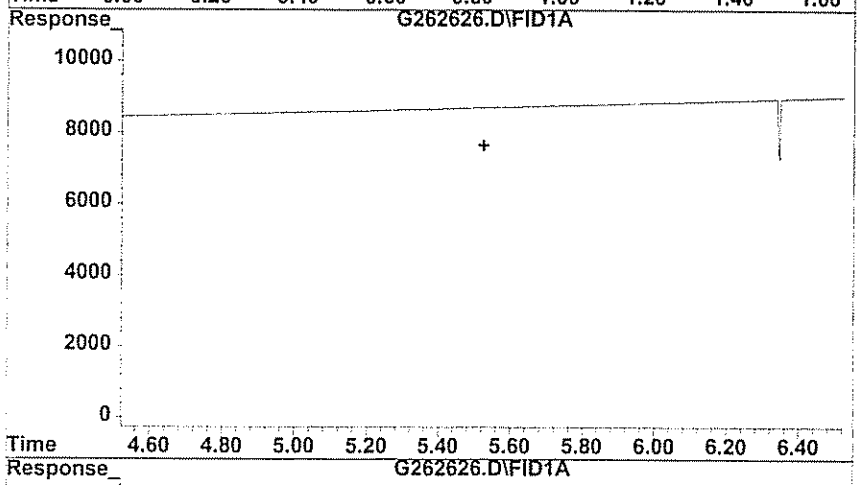
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





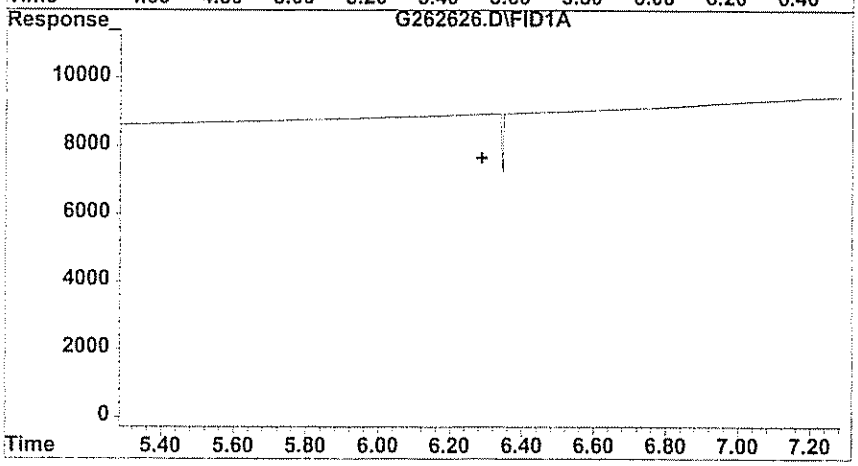
#1 Methane

R.T.:	0.640 min
Delta R.T.:	0.013 min
Response:	1243
Conc:	7.95 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-032-1/2
Sample Volume :	10	Lab File ID :	G262630.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	910	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262630.D Vial: 14
Acq On : 24 Mar 2009 10:56 Operator: TG
Sample : 903071-003 Inst : GC-G
Misc : OU1-16GW30-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 11:05 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.64	141952	907.992	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

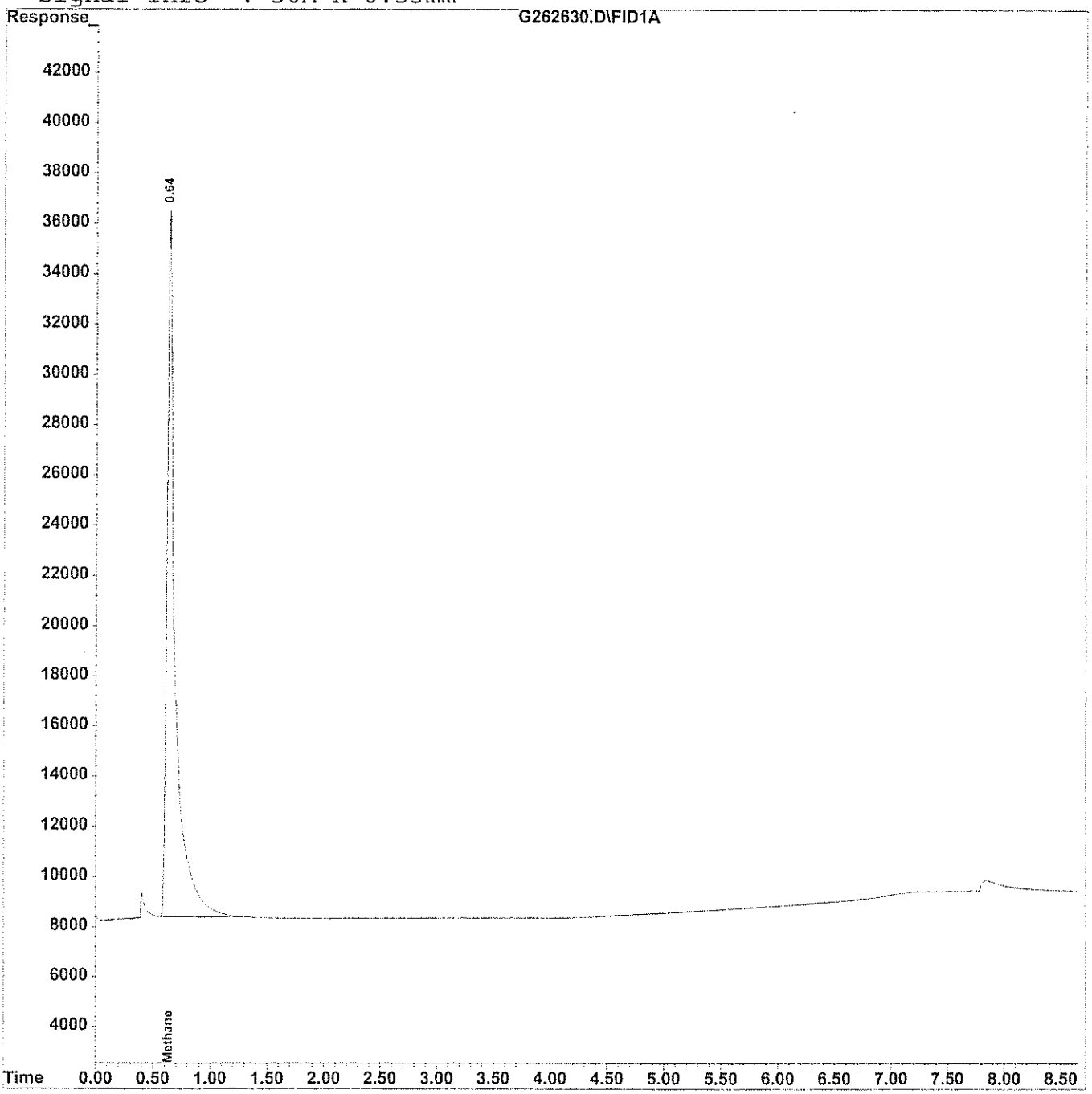
(f)=RT Delta > 1/2 Window (m)=manual int

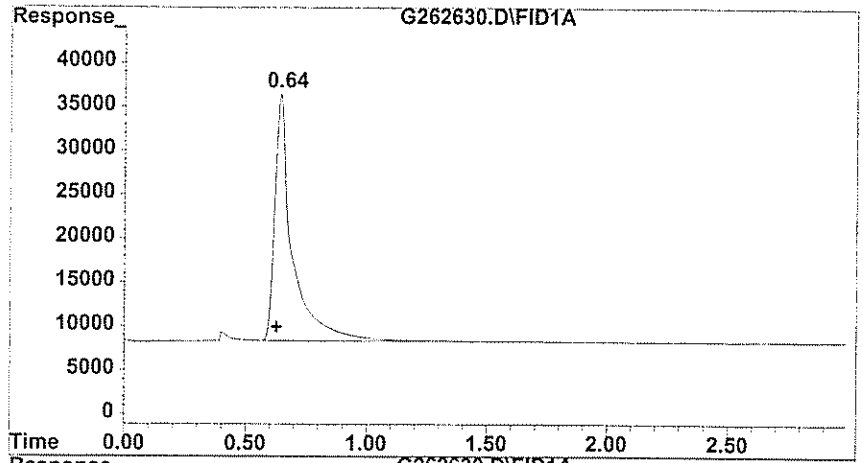
Quantitation Report

Data File : H:\GCDATA\G\032409\G262630.D Vial: 14
Acq On : 24 Mar 2009 10:56 Operator: TG
Sample : 903071-003 Inst : GC-G
Misc : OU1-16GW30-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 11:05 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

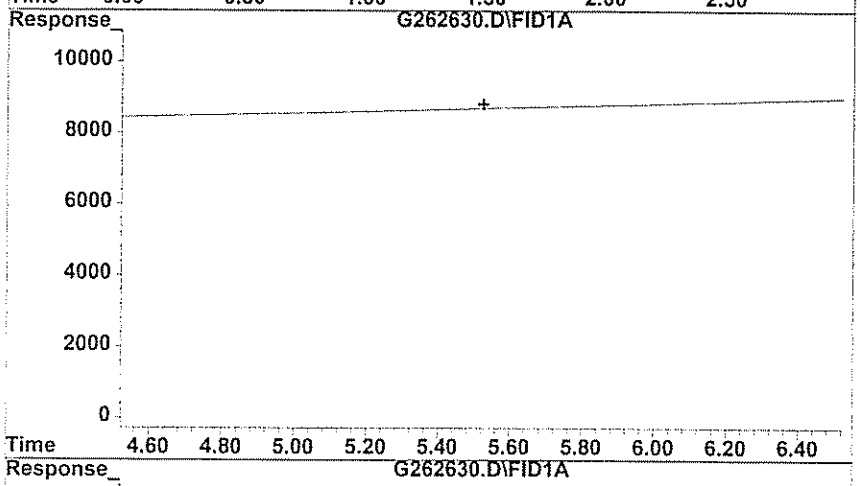
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





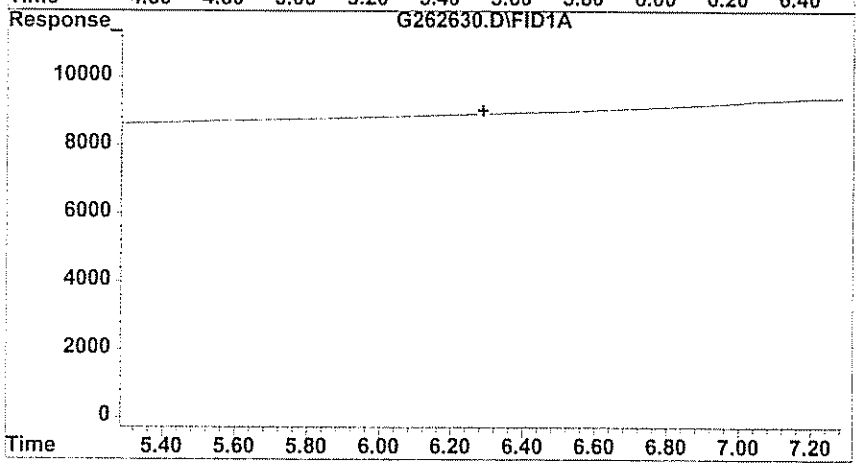
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 141952
Conc: 907.99 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW30-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-003-033-2/2
Sample Volume :	.1	Lab File ID :	G262632.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	1500	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262632.D Vial: 16
Acq On : 24 Mar 2009 11:26 Operator: TG
Sample : 903071-003DL Inst : GC-G
Misc : OU1-16GW30-0309,CH2M,WATER,10ML,100X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 11:36 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units
Target Compounds						
1)	T	Methane	0.65	2295	14.680	ppb
2)	T	Ethane	0.00	0	N.D.	ppb
3)	T	Ethylene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int
G262632.D RSK0320.M Tue Mar 24 11:36:33 2009 W28_IOANNIDE Page 1

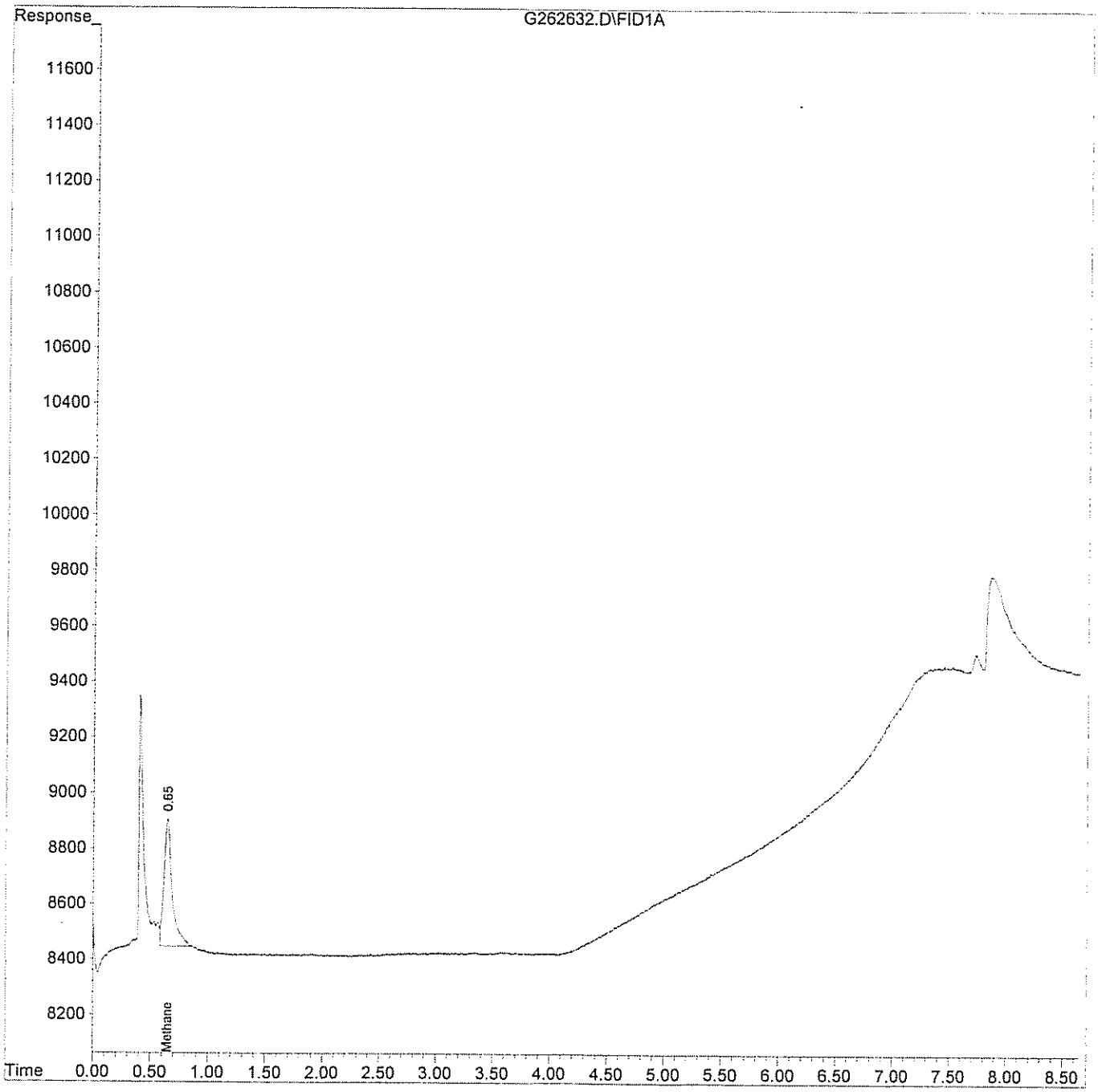
Quantitation Report

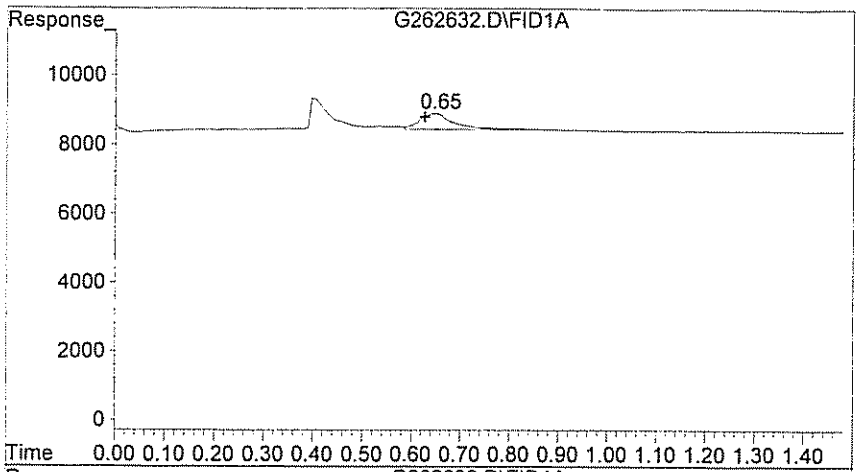
Data File : H:\GCDATA\G\032409\G262632.D
Acq On : 24 Mar 2009 11:26
Sample : 903071-003DL
Misc : OU1-16GW30-0309,CH2M,WATER,10ML,100X
IntFile : rteint.p
Quant Time: Mar 24 11:36 2009 Quant Results File: RSK0320.RES

Vial: 16
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

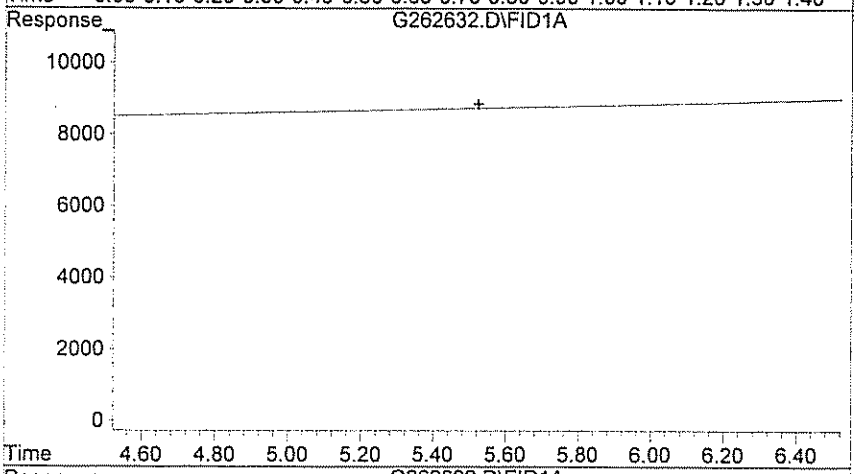
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





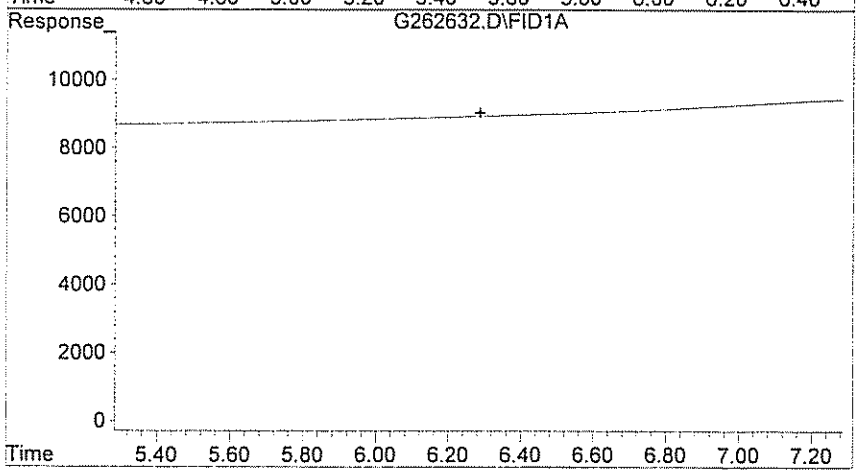
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 2295
Conc: 14.68 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-034-1/2
Sample Volume :	10	Lab File ID :	G262631.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	4300	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262631.D Vial: 15
Acq On : 24 Mar 2009 11:12 Operator: TG
Sample : 903071-004 Inst : GC-G
Misc : OU1-16GW31-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 11:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	679554	4346.746	ppb	
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	d

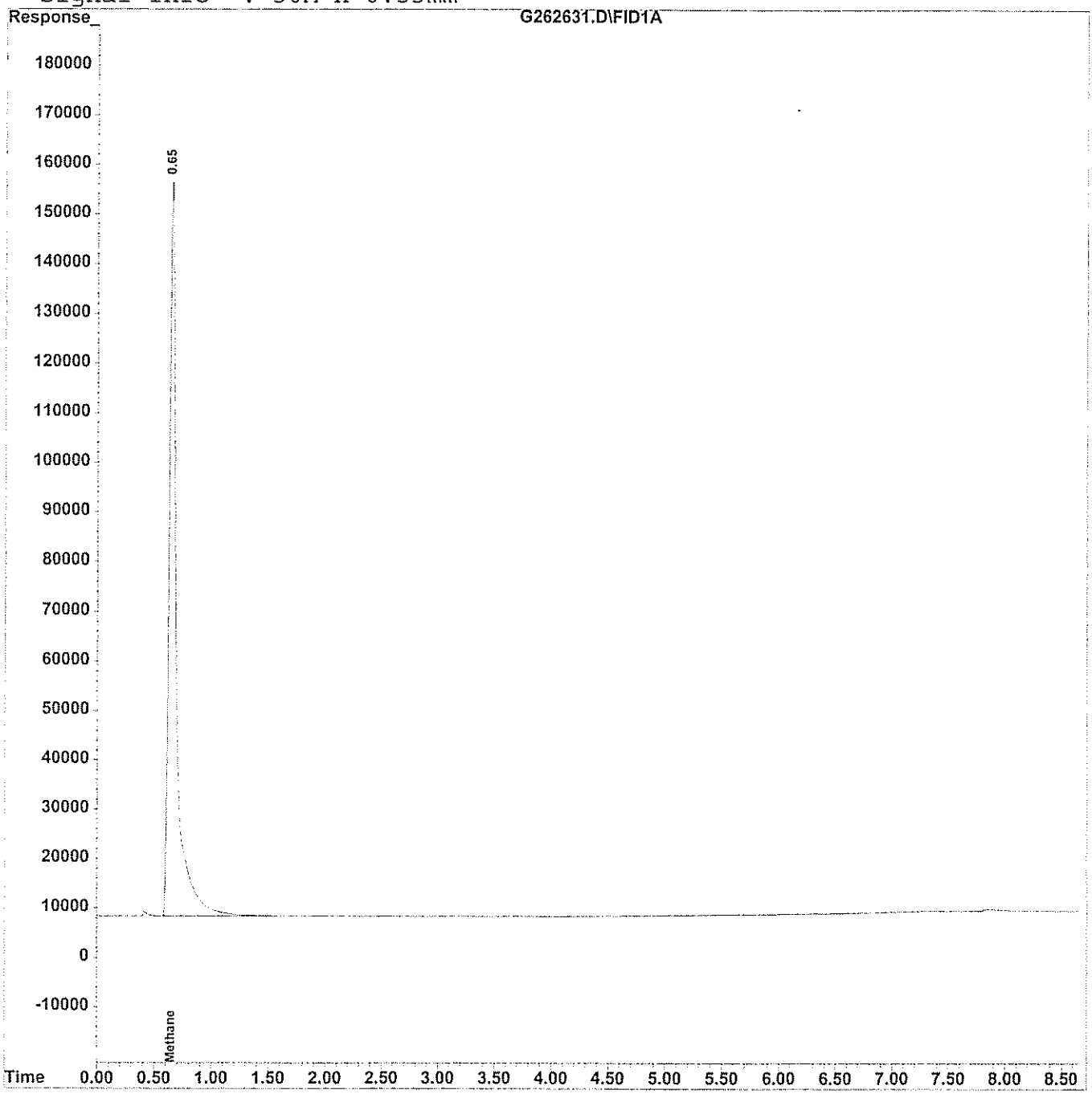
(f)=RT Delta > 1/2 Window (m)=manual int

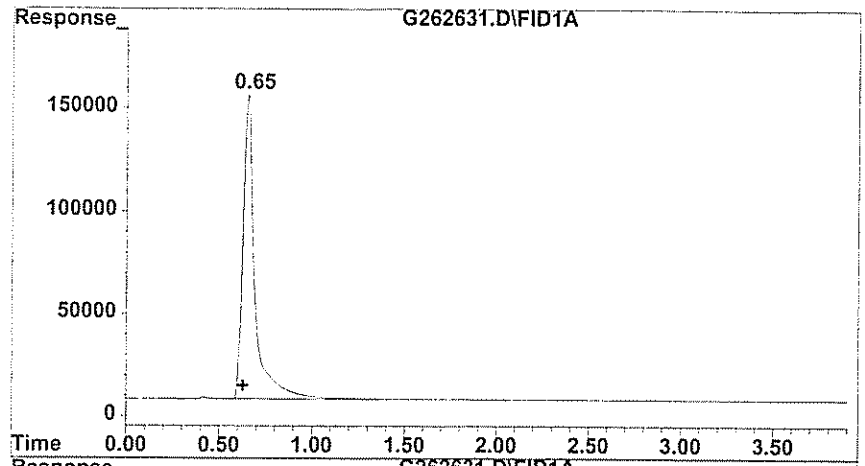
Quantitation Report

Data File : H:\GCDATA\G\032409\G262631.D Vial: 15
Acq On : 24 Mar 2009 11:12 Operator: TG
Sample : 903071-004 Inst : GC-G
Misc : OU1-16GW31-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 11:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

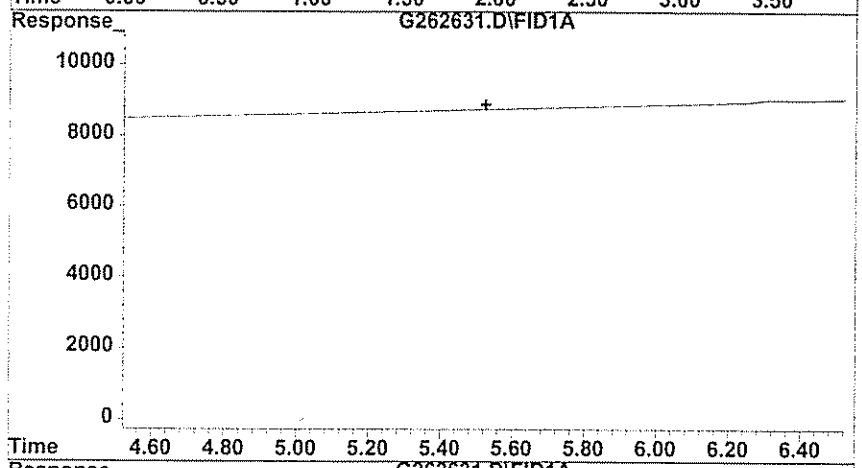
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





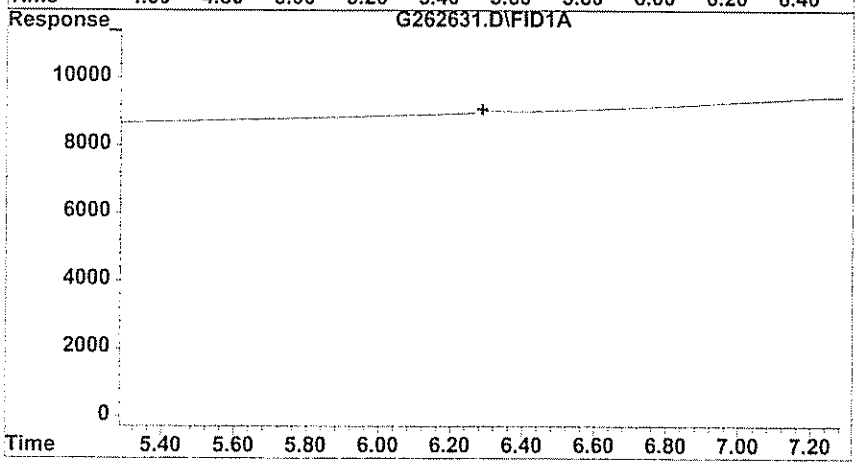
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.027 min
Response: 679554
Conc: 4346.75 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW31-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-004-035-2/2
Sample Volume :	.02	Lab File ID :	G262633.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	3100	U
74-85-1	Ethene	2900	U
74-82-8	Methane	5800	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262633.D Vial: 17
Acq On : 24 Mar 2009 11:44 Operator: TG
Sample : 903071-004DL Inst : GC-G
Misc : OU1-16GW31-0309,CH2M,WATER,10ML,500X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 11:54 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.63	1816	11.616	ppb	m
2)	T	Ethane	0.00	0	N.D.	ppb	
3)	T	Ethylene	0.00	0	N.D.	ppb	

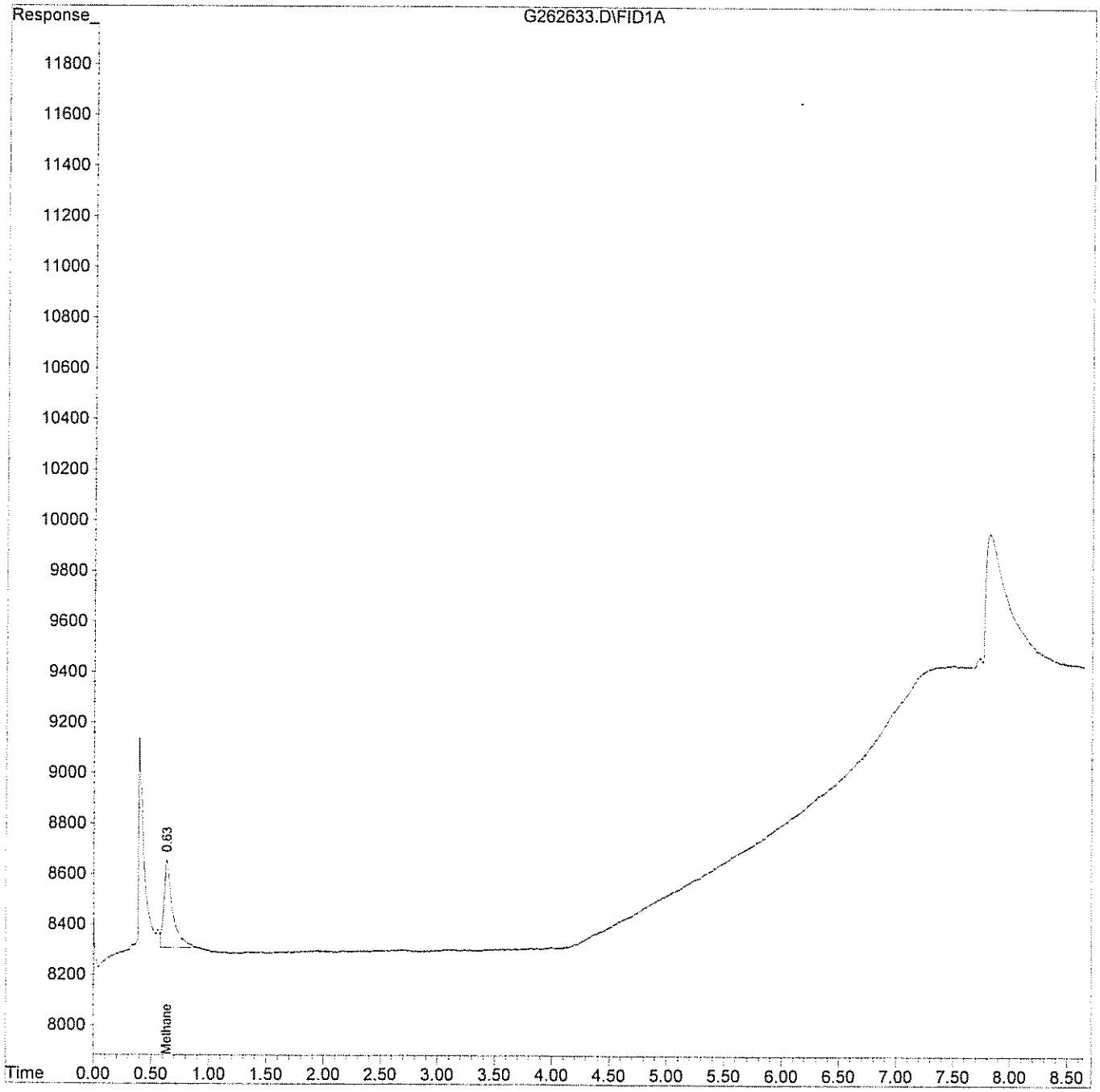
(f)=RT Delta > 1/2 Window (m)=manual int.

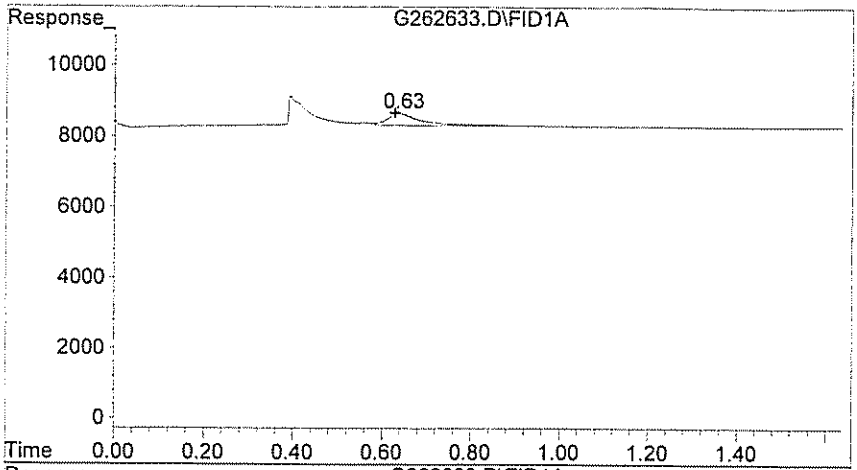
Quantitation Report

Data File : H:\GCDATA\G\032409\G262633.D Vial: 17
Acq On : 24 Mar 2009 11:44 Operator: TG
Sample : 903071-004DL Inst : GC-G
Misc : OU1-16GW31-0309,CH2M,WATER,10ML,500X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 11:54 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

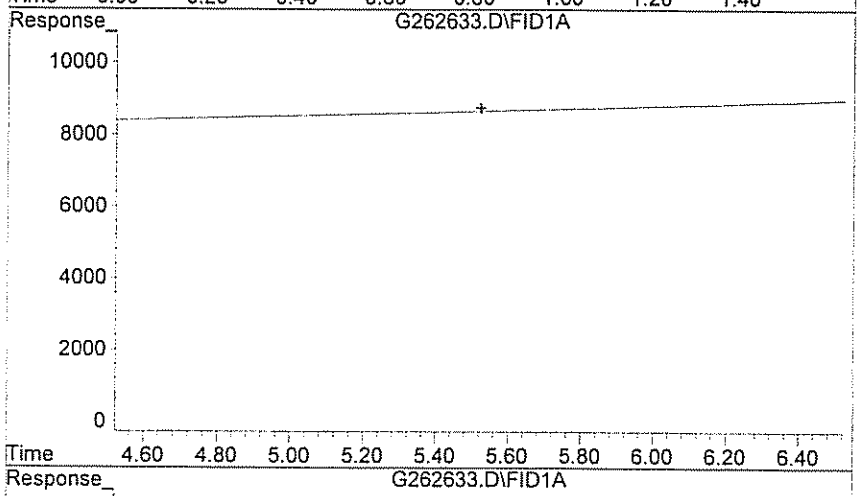
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





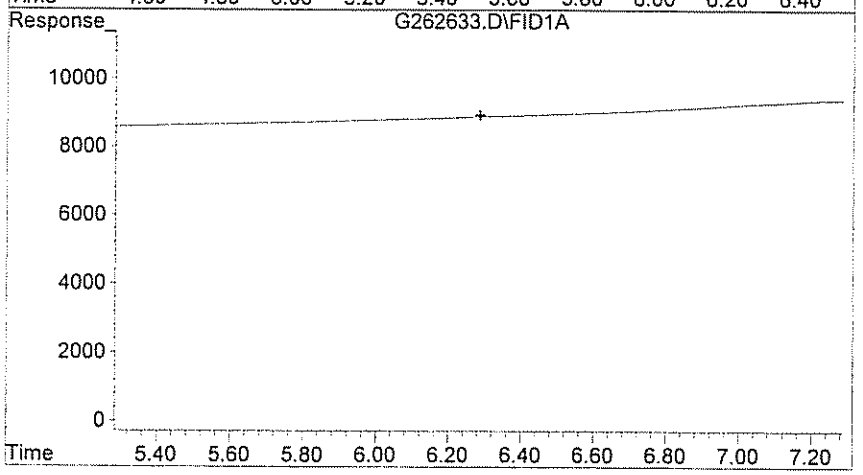
#1 Methane

R.T.: 0.633 min
Delta R.T.: 0.007 min
Response: 1816
Conc: 11.62 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-036-1/2
Sample Volume :	10	Lab File ID :	G262634.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	300	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262634.D Vial: 18
Acq On : 24 Mar 2009 11:59 Operator: TG
Sample : 903071-005 Inst : GC-G
Misc : OU1-S3W3-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 12:11 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units
Target Compounds						
1)	T	Methane	0.66	46589	298.005	ppb
2)	T	Ethane	0.00	0	N.D.	ppb
3)	T	Ethylene	0.00	0	N.D.	ppb

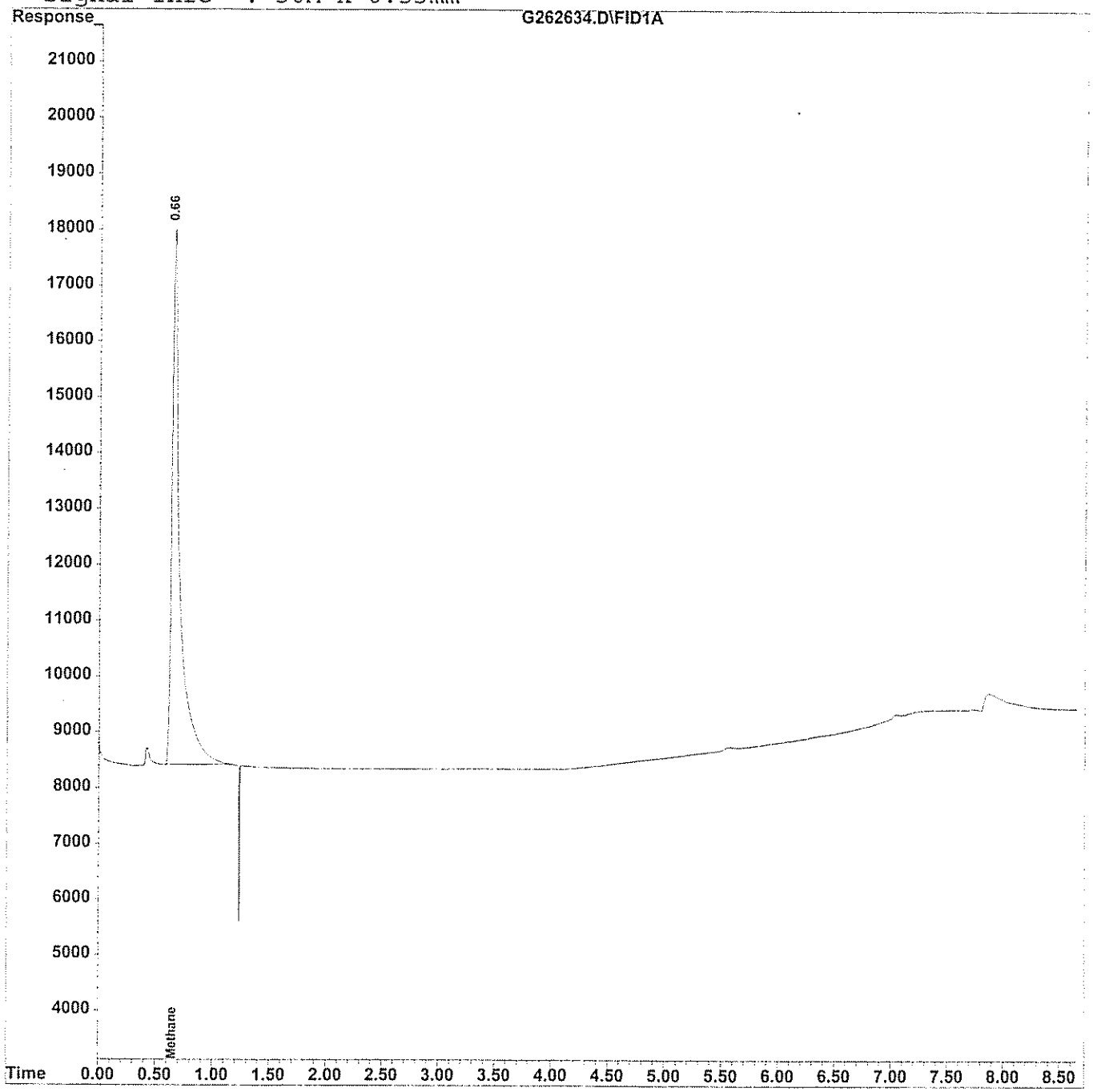
(f)=RT Delta > 1/2 Window (m)=manual integ
G262634.D RSK0320.M Wed Mar 25 12:31:57 2009 W28_IOANNIDE Page 1

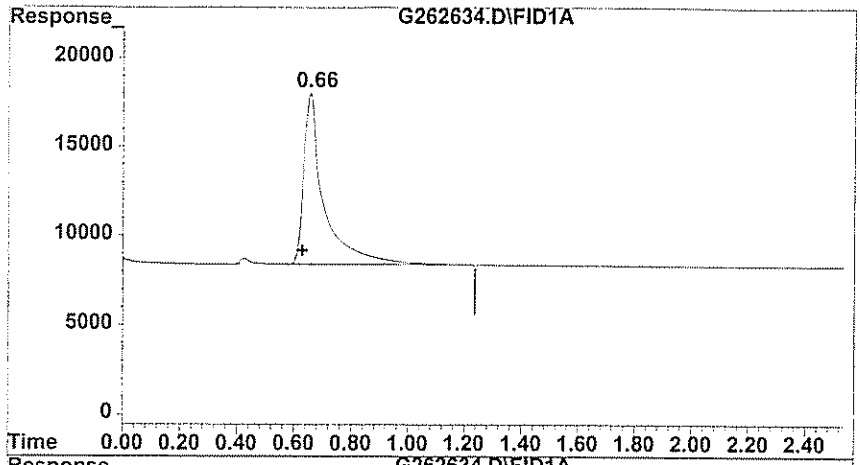
Quantitation Report

Data File : H:\GCDATA\G\032409\G262634.D Vial: 18
Acq On : 24 Mar 2009 11:59 Operator: TG
Sample : 903071-005 Inst : GC-G
Misc : OU1-S3W3-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 12:11 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

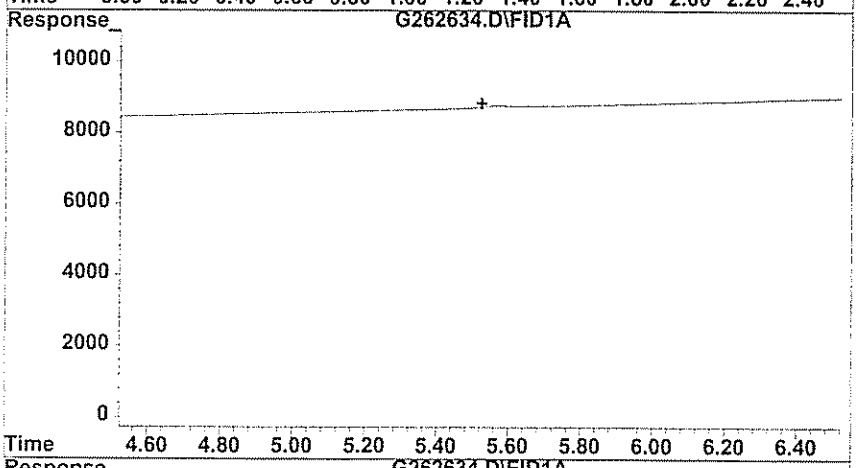
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





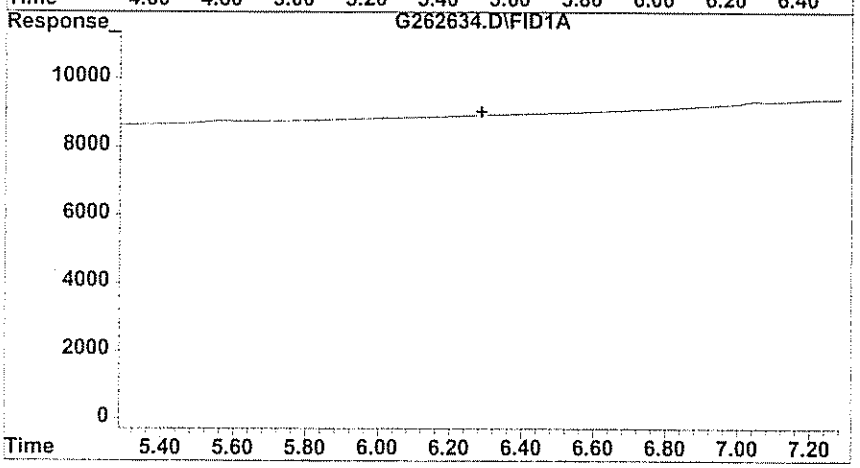
#1 Methane

R.T.: 0.657 min
Delta R.T.: 0.030 min
Response: 46589
Conc: 298.01 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-S3W3-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903071-005-037-2/2
Sample Volume :	.05	Lab File ID :	G262635.D
Level :	Low	Date Received	03/13/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	240	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262635.D Vial: 19
Acq On : 24 Mar 2009 12:32 Operator: TG
Sample : 903071-005DL Inst : GC-G
Misc : OU1-S3W3-0309,CH2M,WATER,10ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 12:42 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	1868	11.949	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

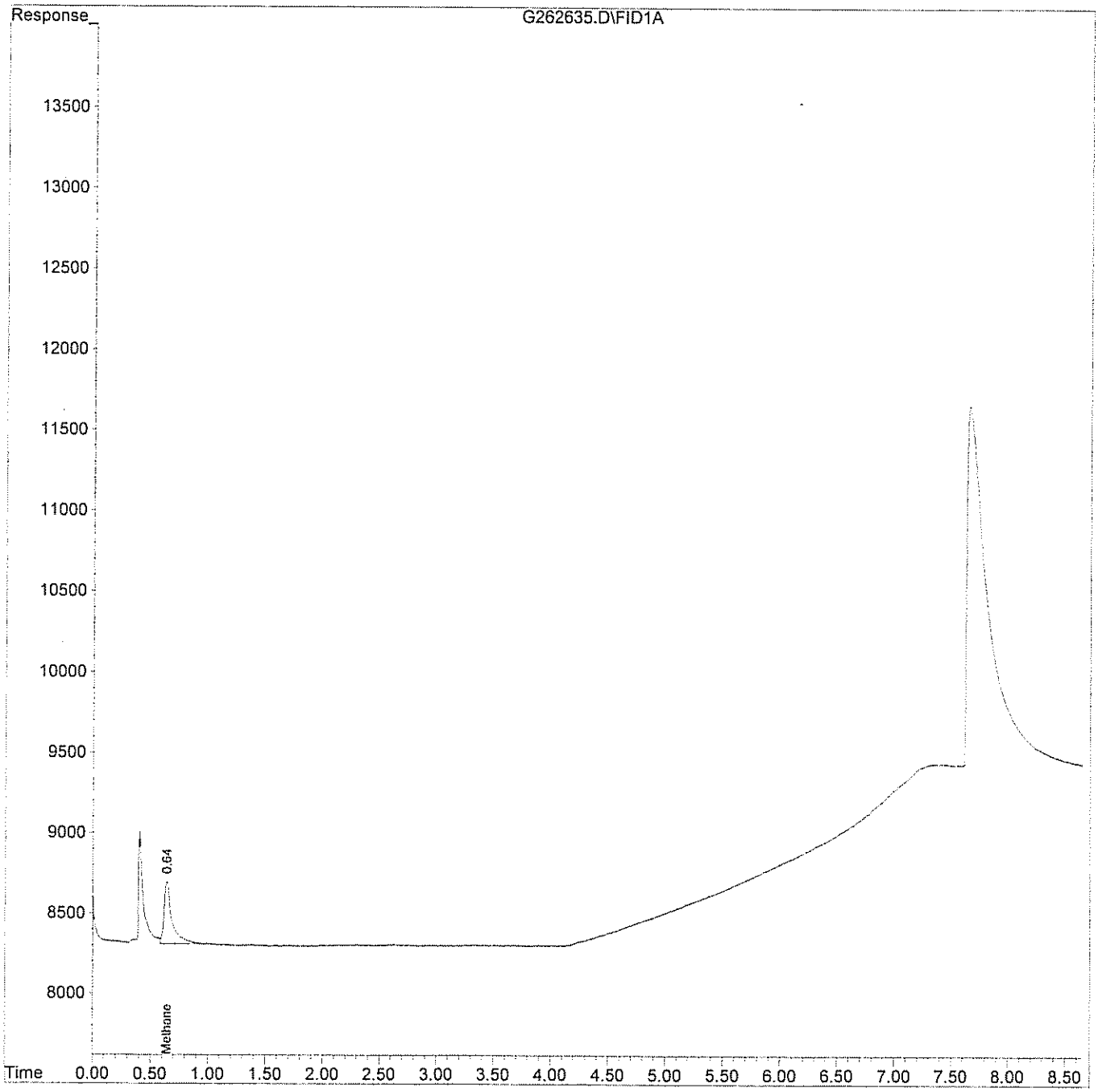
(f)=RT Delta > 1/2 Window (m)=manual int

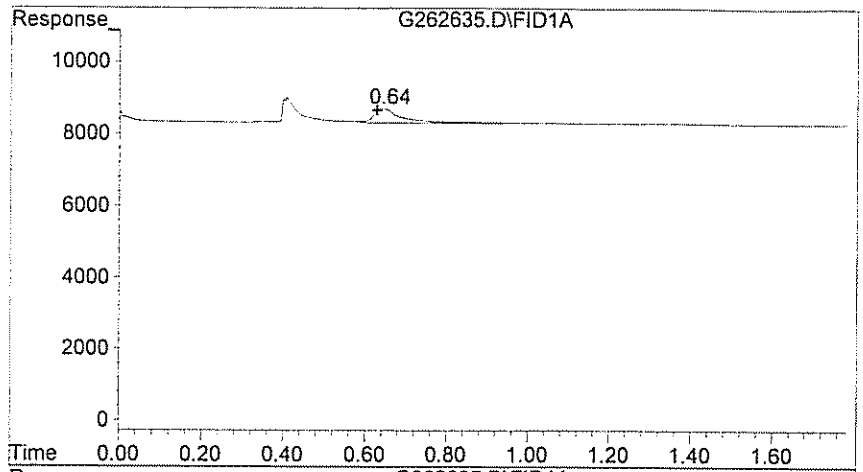
Quantitation Report

Data File : H:\GCDATA\G\032409\G262635.D Vial: 19
Acq On : 24 Mar 2009 12:32 Operator: TG
Sample : 903071-005DL Inst : GC-G
Misc : OU1-S3W3-0309,CH2M,WATER,10ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 12:42 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

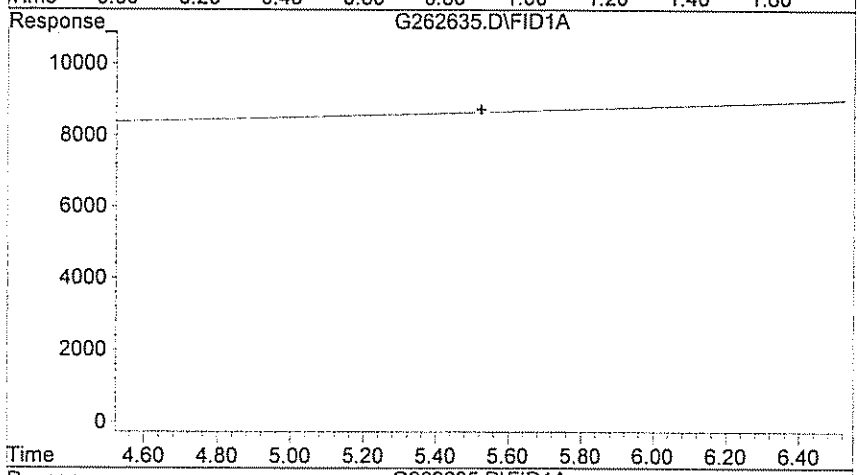
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





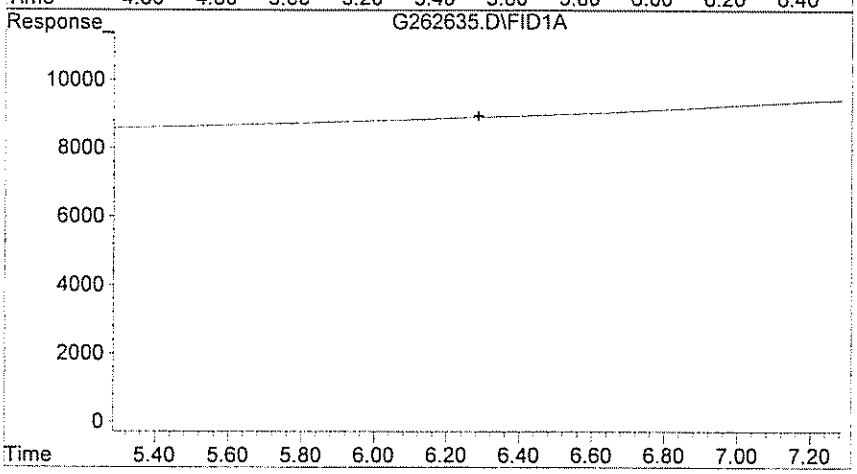
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 1868
Conc: 11.95 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009

Calibration Files
1 =G262567.D 2 =G262568.D 10 =G262571.D
5 =G262570.D 4 =G262569.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	1.844	1.715	1.208	1.507	1.544	1.563 E2	15.39
2)	T	Ethane	2.965	2.600	1.796	2.090	2.406	2.371 E1	19.04
3)	T	Ethylene	3.591	3.466	2.153	2.763	2.893	2.973 E1	19.52

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262567.D Vial: 1
Acq On : 20 Mar 2009 9:07 Operator: TG
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.63	614	4.075	ppb	m
2)	T	Ethane	5.48	185	8.853	ppb	m
3)	T	Ethylene	6.26	209	7.565	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual Int.

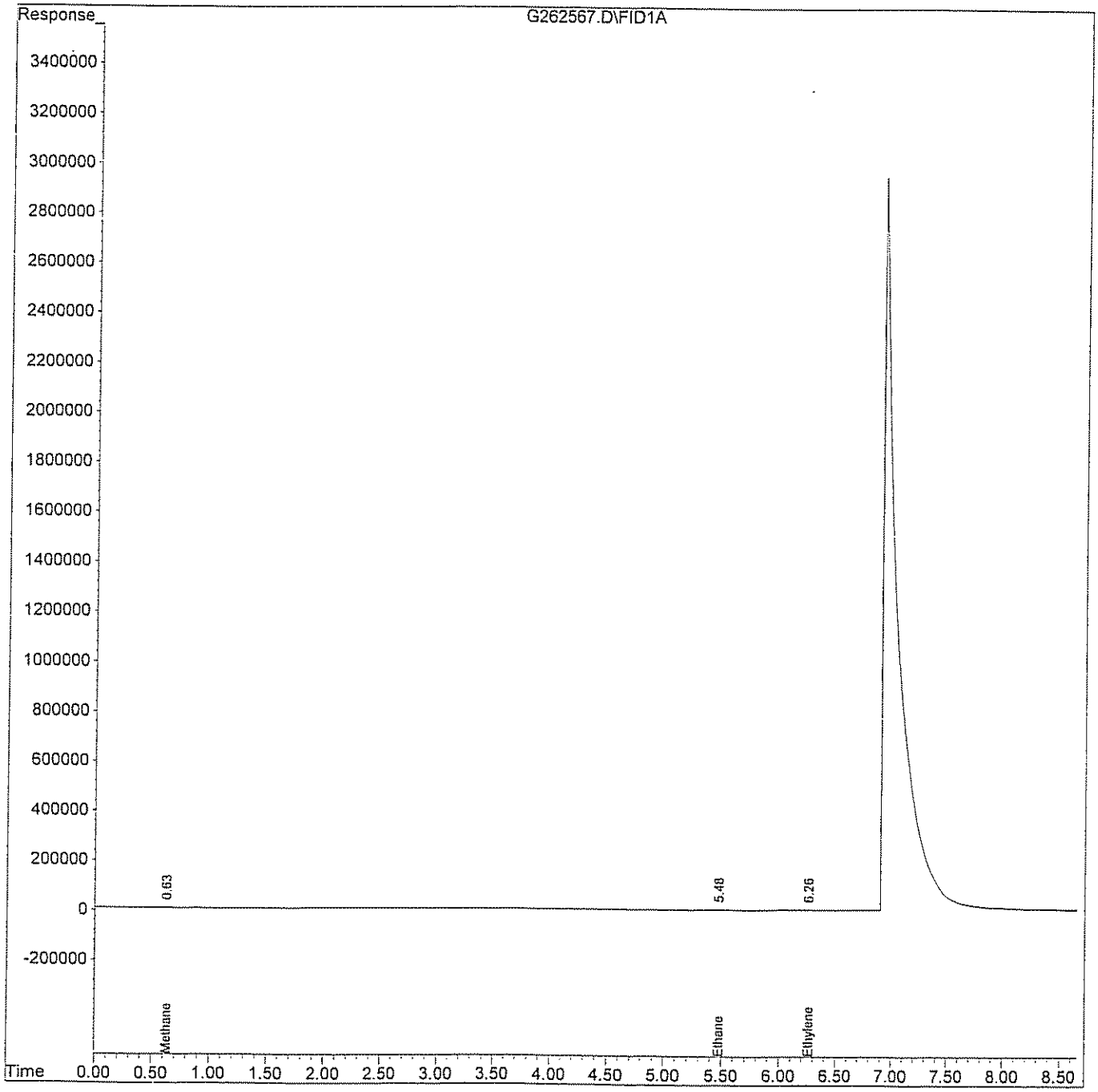
Quantitation Report

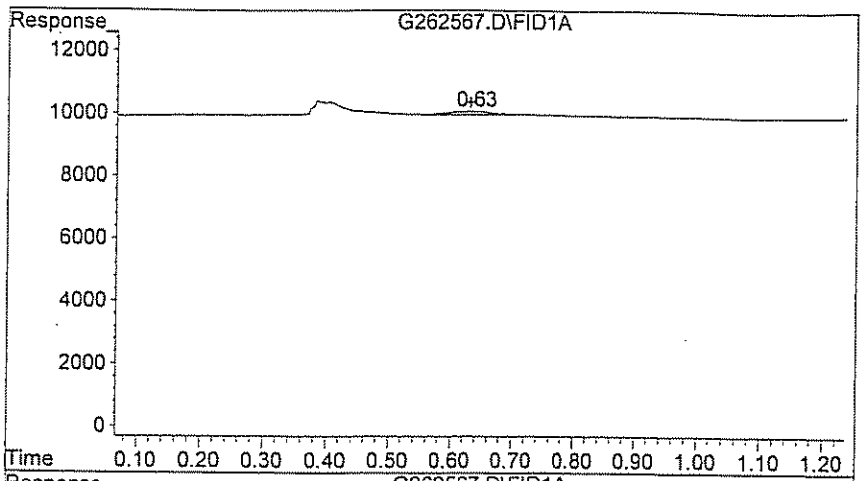
Data File : H:\GCDATA\G\032009\G262567.D
Acq On : 20 Mar 2009 9:07
Sample : CAL01
Misc : CAL01
IntFile : rteint.p
Quant Time: Mar 20 10:22 2009 Quant Results File: RSK0320.RES

Vial: 1
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

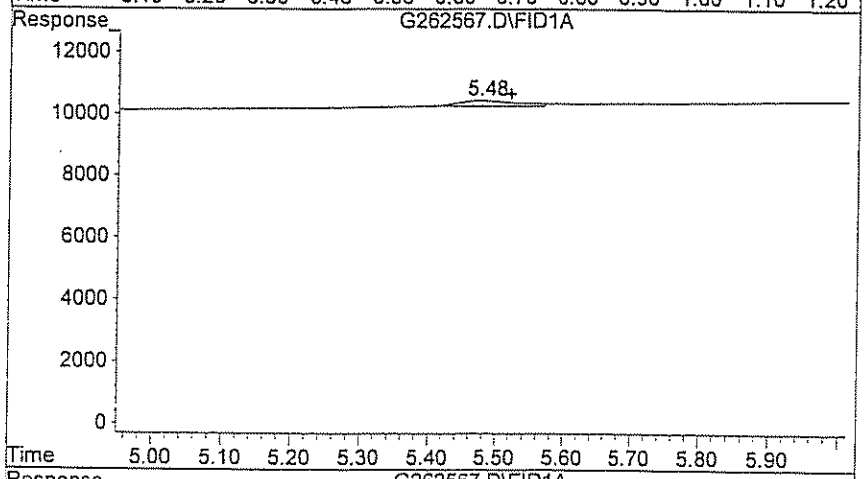
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





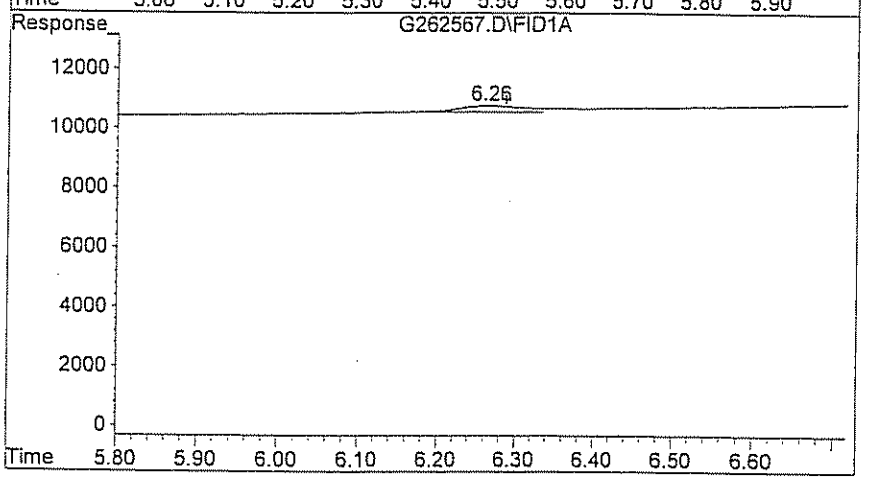
#1 Methane

R.T.: 0.630 min
Delta R.T.: 0.000 min
Response: 614
Conc: 4.08 ppb m



#2 Ethane

R.T.: 5.477 min
Delta R.T.: -0.043 min
Response: 185
Conc: 8.85 ppb m



#3 Ethylene

R.T.: 6.260 min
Delta R.T.: -0.027 min
Response: 209
Conc: 7.56 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262568.D Vial: 2
Acq On : 20 Mar 2009 9:23 Operator: TG
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.61	1149	6.859	ppb	m
2)	T	Ethane	5.45	325	12.860	ppb	m
3)	T	Ethylene	6.25	402	12.654	ppb	m

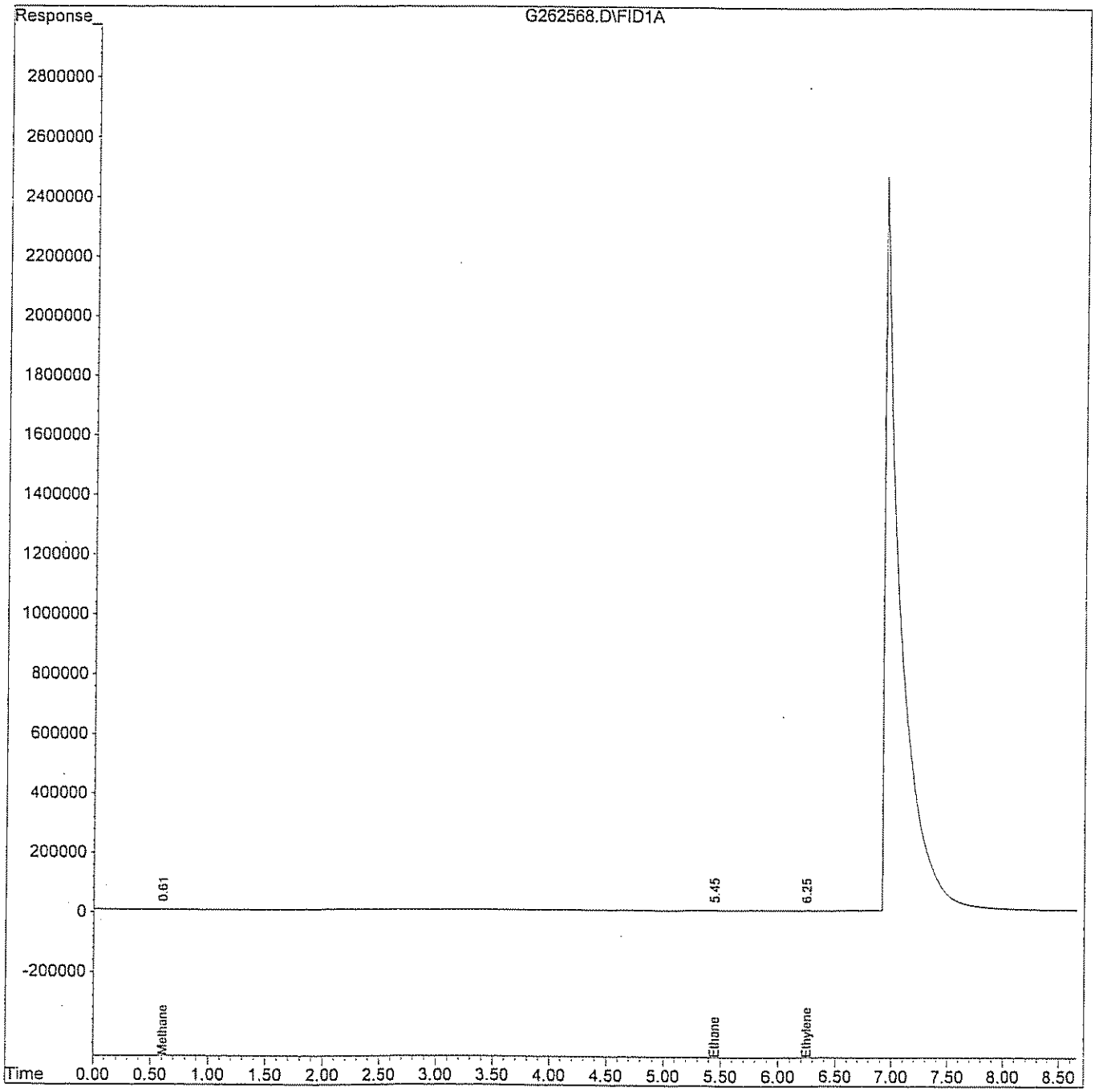
(f)=RT Delta > 1/2 Window (m)=manual int.

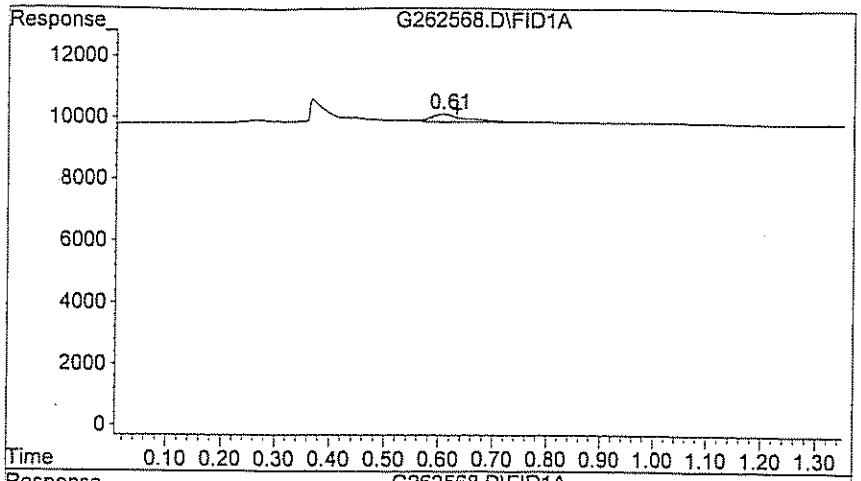
Quantitation Report

Data File : H:\GCDATA\G\032009\G262568.D Vial: 2
Acq On : 20 Mar 2009 9:23 Operator: TG
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

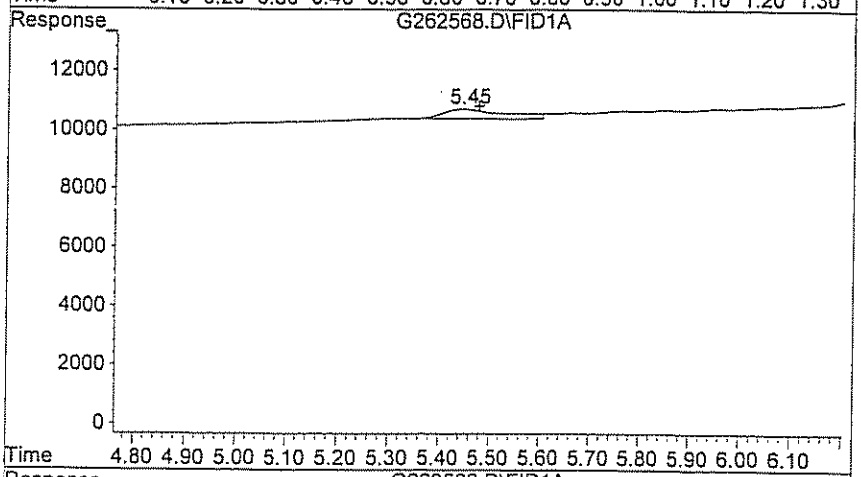
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





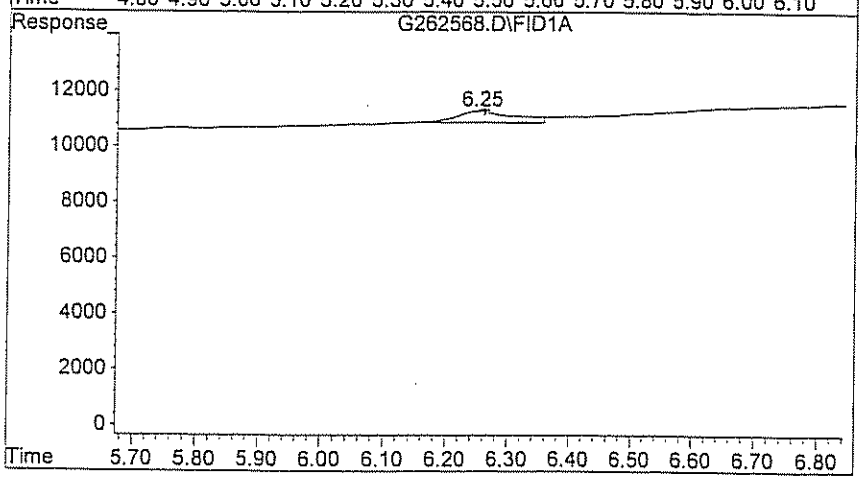
#1 Methane

R.T.:	0.607 min
Delta R.T.:	-0.023 min
Response:	1149
Conc:	6.86 ppb m



#2 Ethane

R.T.:	5.447 min
Delta R.T.:	-0.030 min
Response:	325
Conc:	12.86 ppb m



#3 Ethylene

R.T.:	6.247 min
Delta R.T.:	-0.013 min
Response:	402
Conc:	12.65 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262569.D Vial: 3
Acq On : 20 Mar 2009 9:44 Operator: TG
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:32 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.62	2053	12.159	ppb	m
2)	T	Ethane	5.51	599	23.476	ppb	m
3)	T	Ethylene	6.29	674	20.592	ppb	m

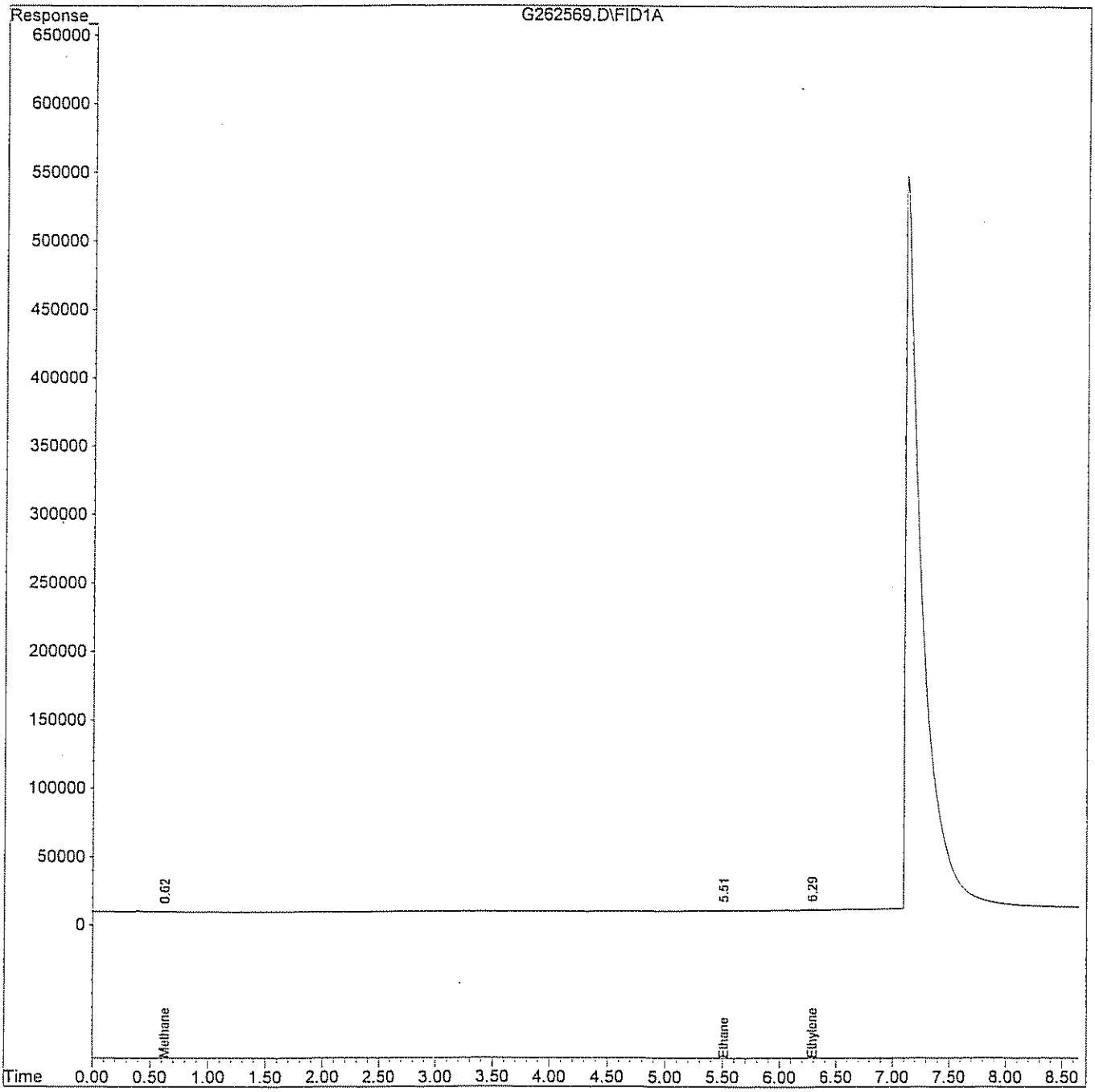
(f)=RT Delta > 1/2 Window (m)=manual int.

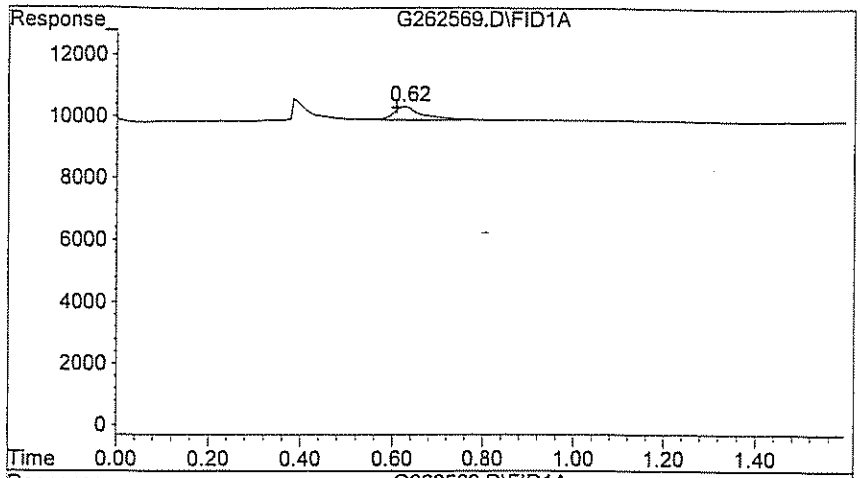
Quantitation Report

Data File : H:\GCDATA\G\032009\G262569.D Vial: 3
Acq On : 20 Mar 2009 9:44 Operator: TG
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:32 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

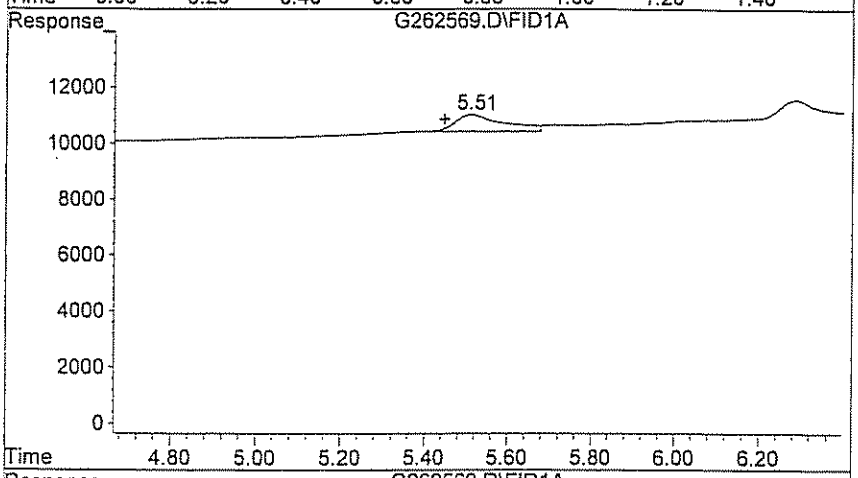
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





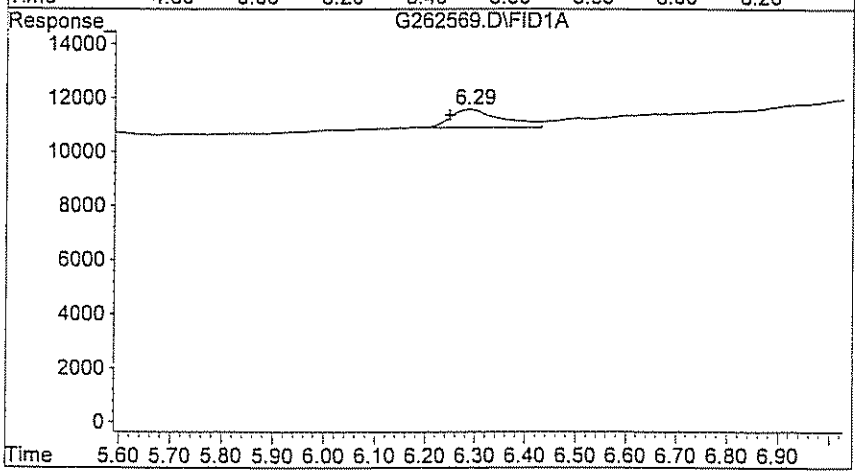
#1 Methane

R.T.: 0.623 min
Delta R.T.: 0.017 min
Response: 2053
Conc: 12.16 ppb m



#2 Ethane

R.T.: 5.510 min
Delta R.T.: 0.063 min
Response: 599
Conc: 23.48 ppb m



#3 Ethylene

R.T.: 6.287 min
Delta R.T.: 0.040 min
Response: 674
Conc: 20.59 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262571.D Vial: 5
Acq On : 20 Mar 2009 10:13 Operator: TG
Sample : CAL010 Inst : GC-G
Misc : CAL010 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	4022	24.343	ppb	m
2) T	Ethane	5.52	1121	44.572	ppb	
3) T	Ethylene	6.29	1253	39.427	ppb	

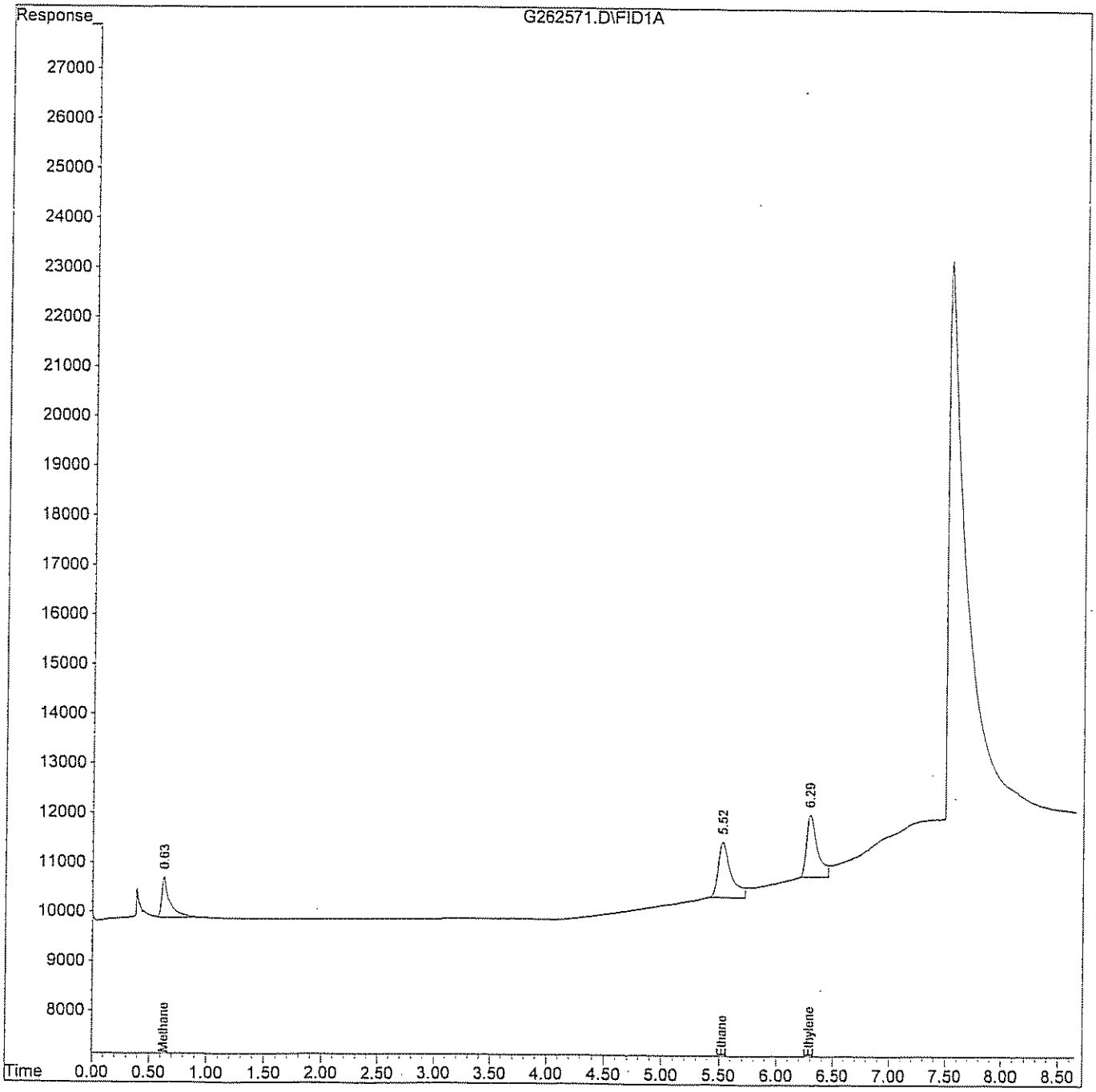
(f)=RT Delta > 1/2 Window (m)=manual Inc.

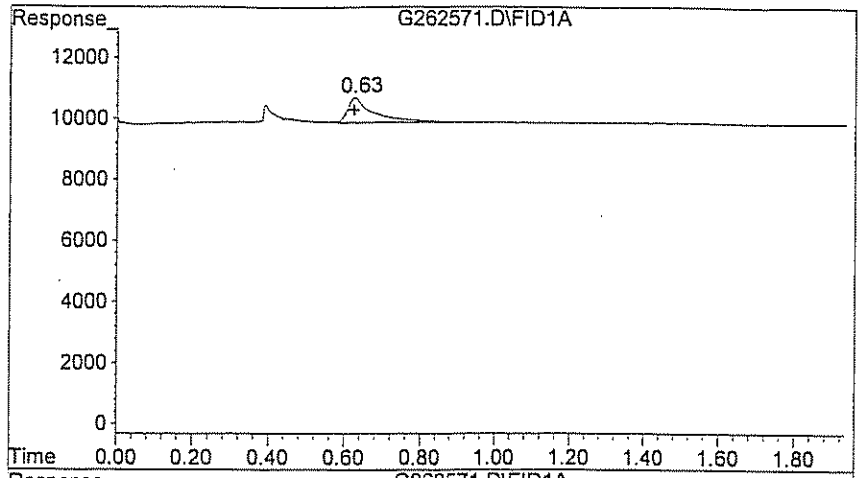
Quantitation Report

Data File : H:\GCDATA\G\032009\G262571.D
Acq On : 20 Mar 2009 10:13
Sample : CAL010
Misc : CAL010
IntFile : rteint.p
Vial: 5
Operator: TG
Inst : GC-G
Multiplr: 1.00
Quant Time: Mar 20 10:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

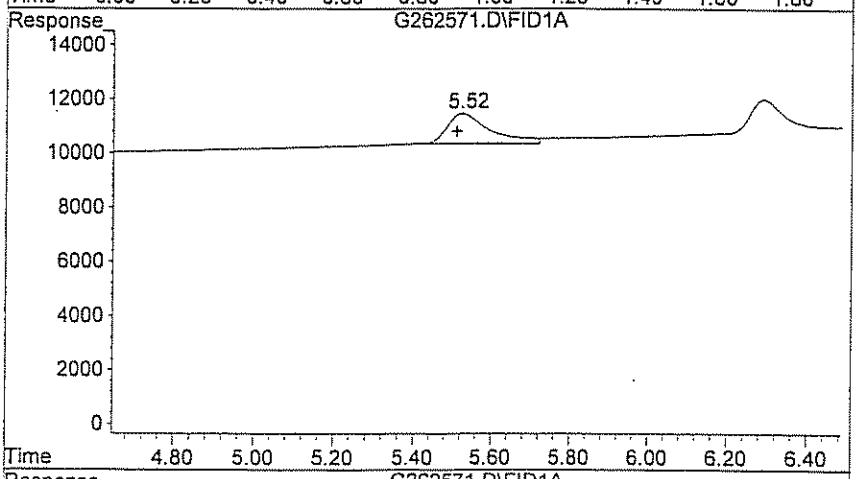
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





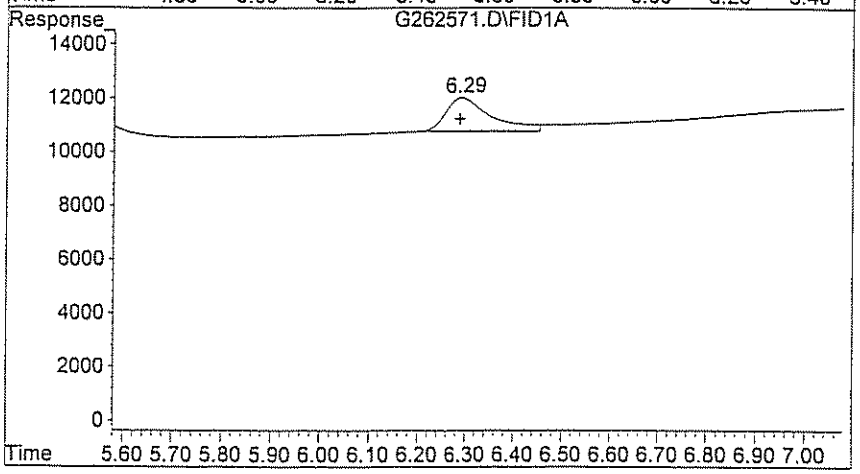
#1 Methane

R.T.:	0.627 min
Delta R.T.:	0.003 min
Response:	4022
Conc:	24.34 ppb m



#2 Ethane

R.T.:	5.523 min
Delta R.T.:	0.013 min
Response:	1121
Conc:	44.57 ppb



#3 Ethylene

R.T.:	6.287 min
Delta R.T.:	0.000 min
Response:	1253
Conc:	39.43 ppb

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262639.D
Acq On : 24 Mar 2009 13:45
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 23
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	150.482	3.7	100	0.02
2	T	Ethane	23.713	20.545	13.4	98	0.03
3	T	Ethylene	29.730	25.430	14.5	92	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262639.D Vial: 23
Acq On : 24 Mar 2009 13:45 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 13:56 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2498	15.978	ppb	m
2) T	Ethane	5.55	641	27.031	ppb	m
3) T	Ethylene	6.32	740	24.891	ppb	m

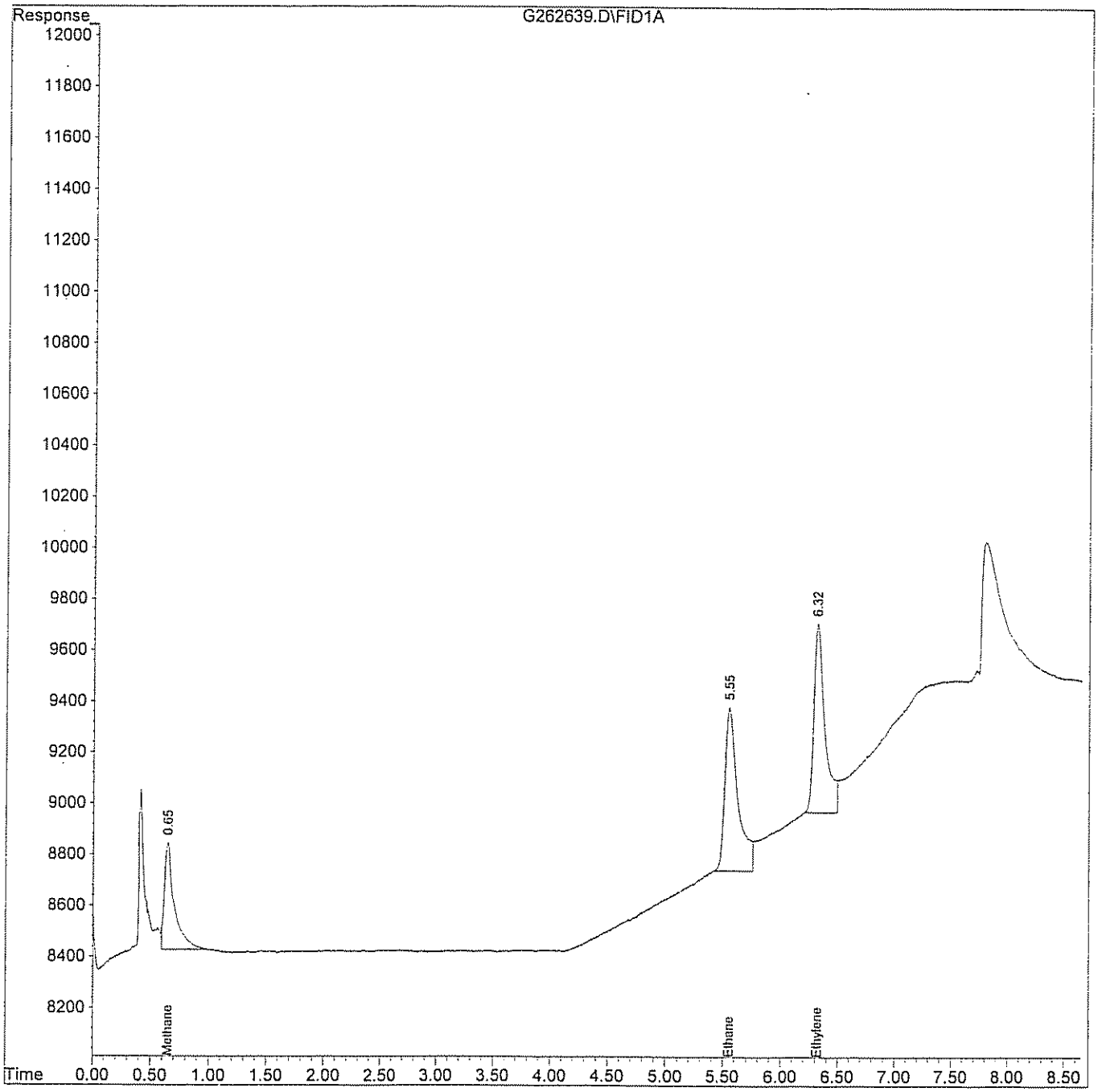
(f)=RT Delta > 1/2 Window (m)=manual int

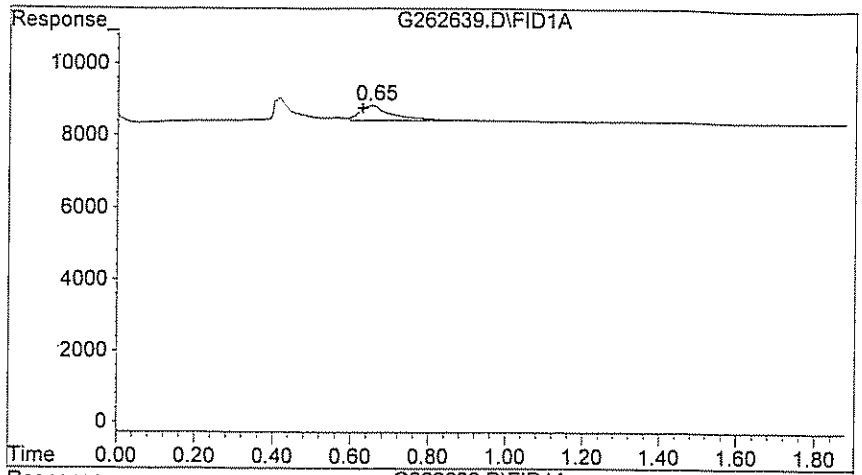
Quantitation Report

Data File : H:\GCDATA\G\032409\G262639.D Vial: 23
Acq On : 24 Mar 2009 13:45 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 13:56 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

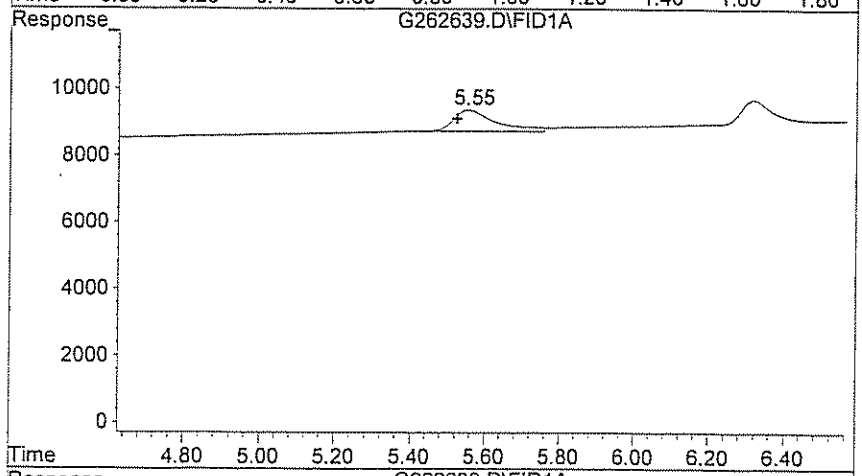
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





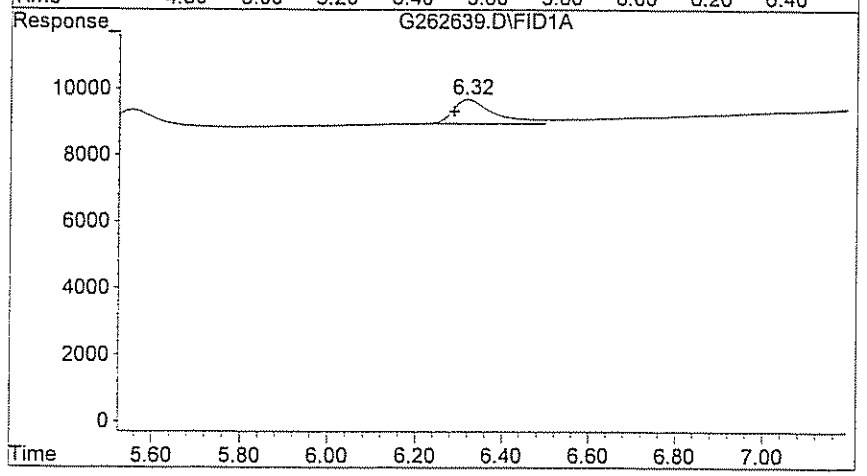
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 2498
Conc: 15.98 ppb m



#2 Ethane

R.T.: 5.553 min
Delta R.T.: 0.030 min
Response: 641
Conc: 27.03 ppb m



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.030 min
Response: 740
Conc: 24.89 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262617.D
Acq On : 24 Mar 2009 6:59
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 35
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	143.072	8.5	95	0.02
2	T	Ethane	23.713	21.506	9.3	103	-0.02
3	T	Ethylene	29.730	25.808	13.2	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262617.D Vial: 35
Acq On : 24 Mar 2009 6:59 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:10 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.64	2375	15.192	ppb	m
2)	T	Ethane	5.50	671	28.297	ppb	m
3)	T	Ethylene	6.30	751	25.261	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int.

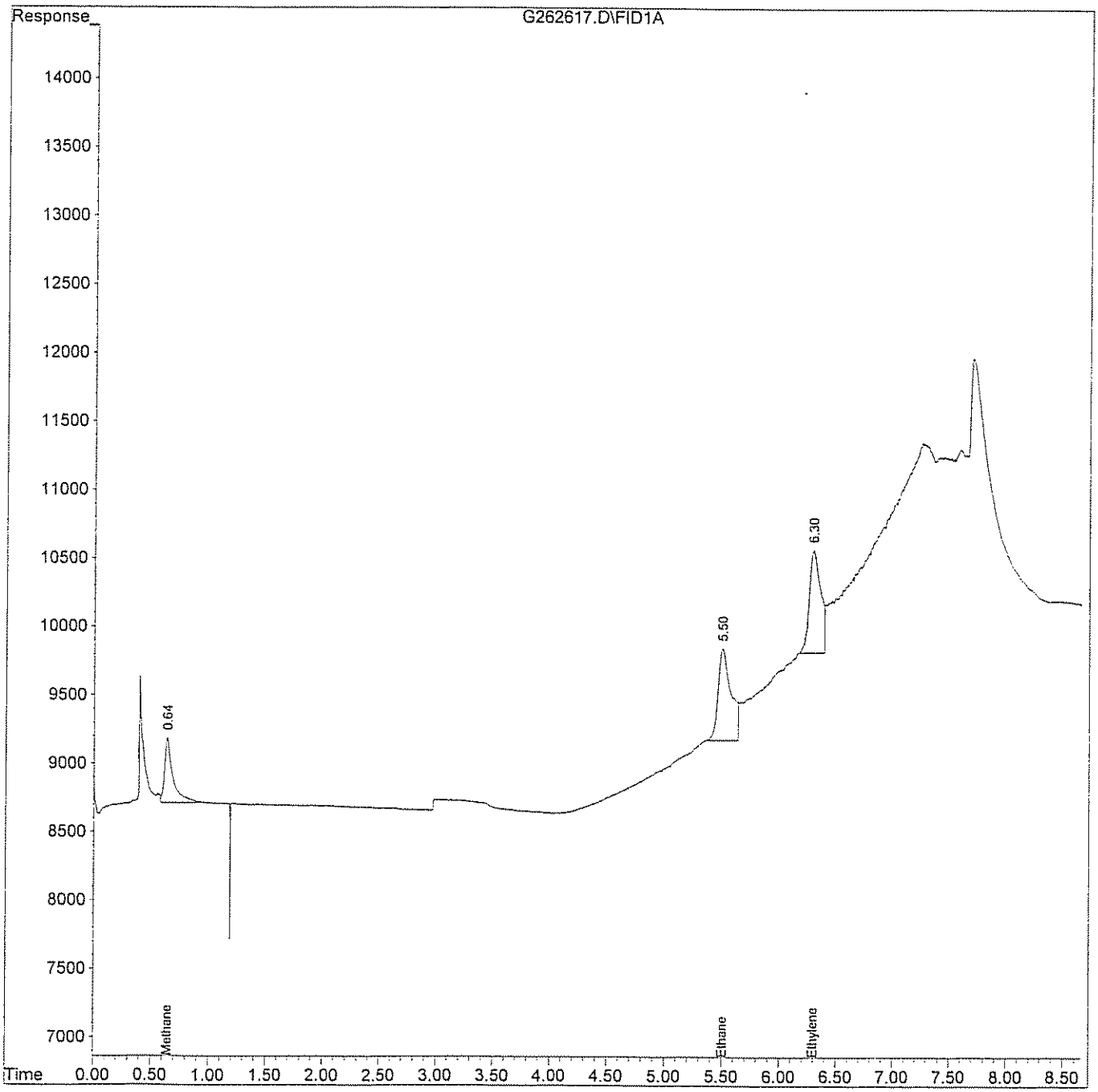
Quantitation Report

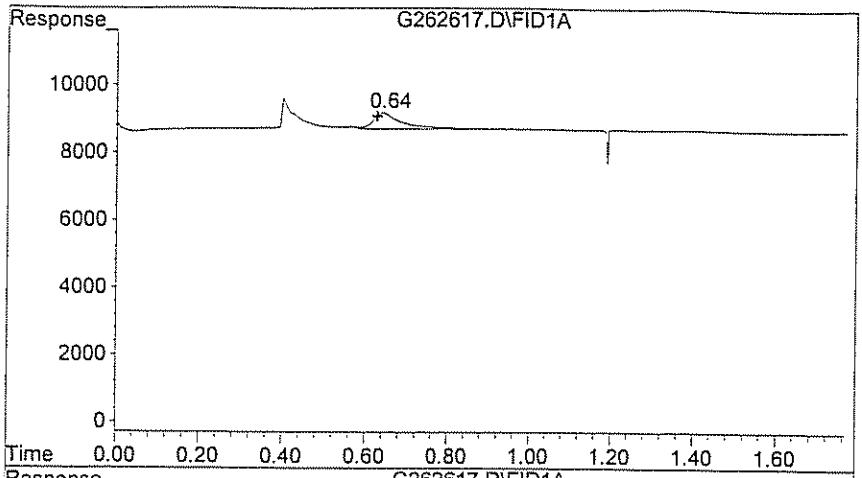
Data File : H:\GCDATA\G\032409\G262617.D
Acq On : 24 Mar 2009 6:59
Sample : CCV
Misc : CCV
IntFile : rteint.p
Quant Time: Mar 24 7:10 2009 Quant Results File: RSK0320.RES

Vial: 35
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

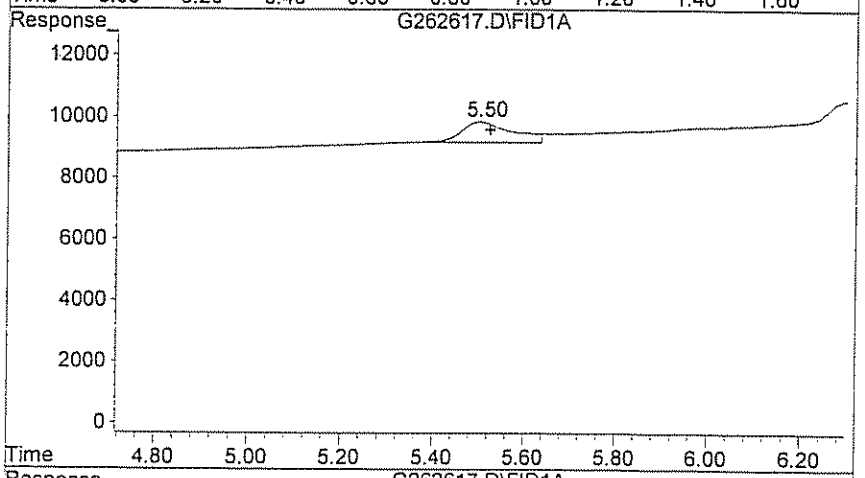
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





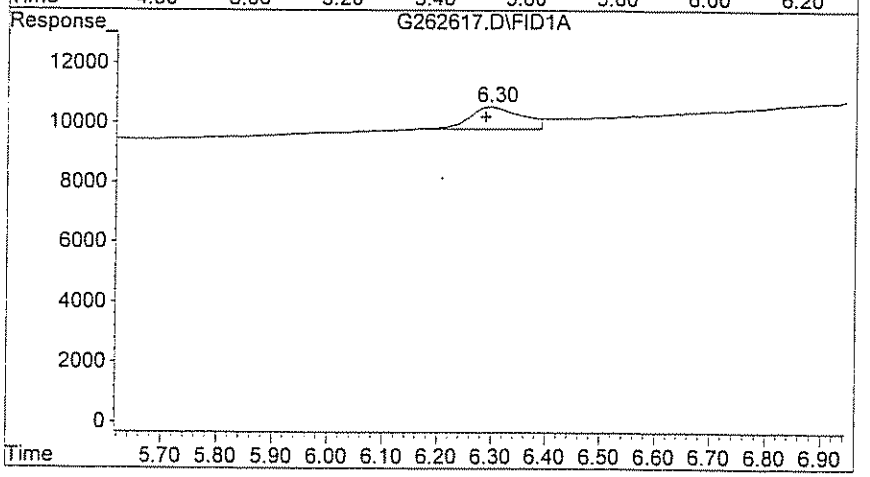
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 2375
Conc: 15.19 ppb m



#2 Ethane

R.T.: 5.503 min
Delta R.T.: -0.020 min
Response: 671
Conc: 28.30 ppb m



#3 Ethylene

R.T.: 6.297 min
Delta R.T.: 0.010 min
Response: 751
Conc: 25.26 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262629.D Vial: 13
Acq On : 24 Mar 2009 10:38 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	162.229	-3.8	108	0.03
2	T	Ethane	23.713	19.327	18.5	92	0.00
3	T	Ethylene	29.730	23.918	19.5	87	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262629.D Vial: 13
Acq On : 24 Mar 2009 10:38 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 10:53 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.65	2693	17.226	ppb	m
2)	T	Ethane	5.53	603	25.429	ppb	m
3)	T	Ethylene	6.31	696	23.411	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual Int.

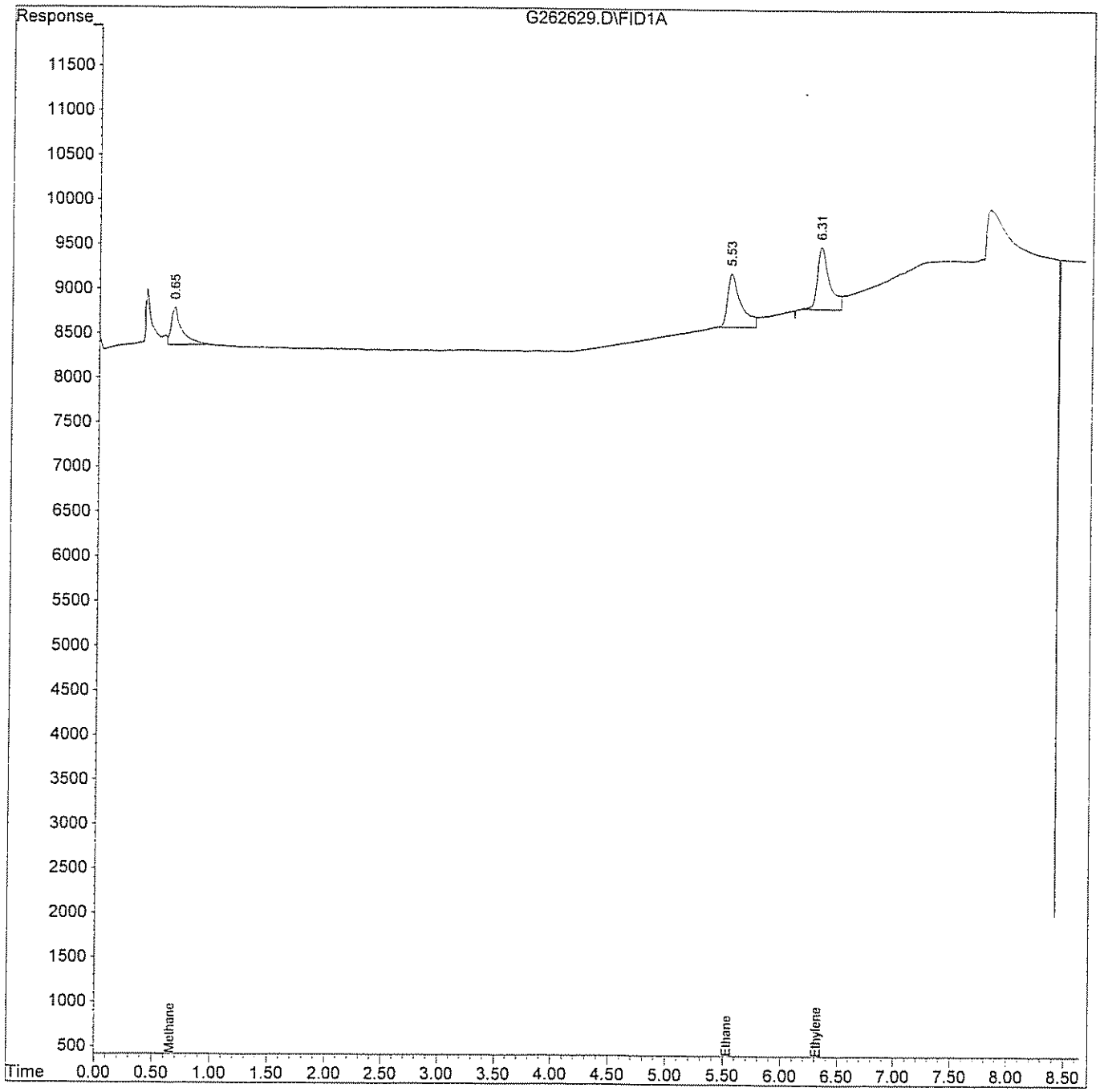
Quantitation Report

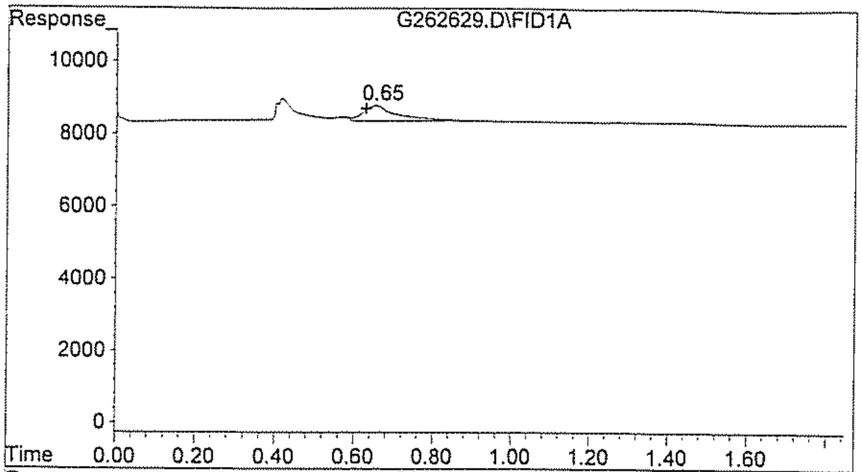
Data File : H:\GCDATA\G\032409\G262629.D
Acq On : 24 Mar 2009 10:38
Sample : CCV
Misc : CCV
IntFile : rteint.p
Quant Time: Mar 24 10:53 2009 Quant Results File: RSK0320.RES

Vial: 13
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

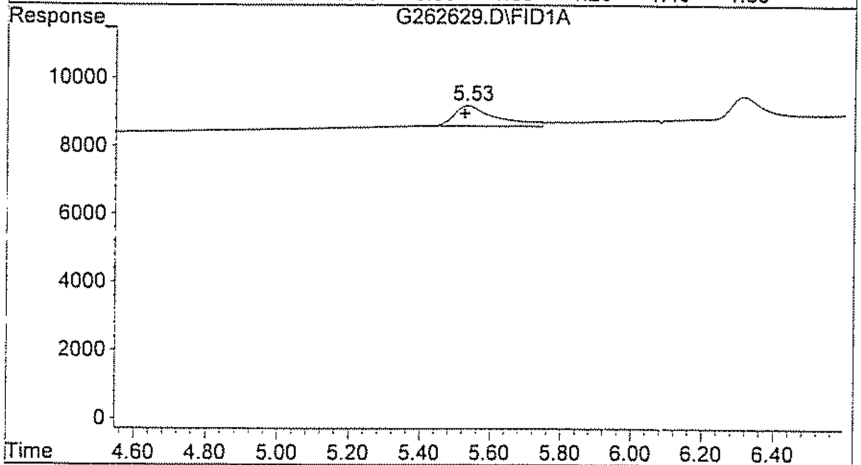
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





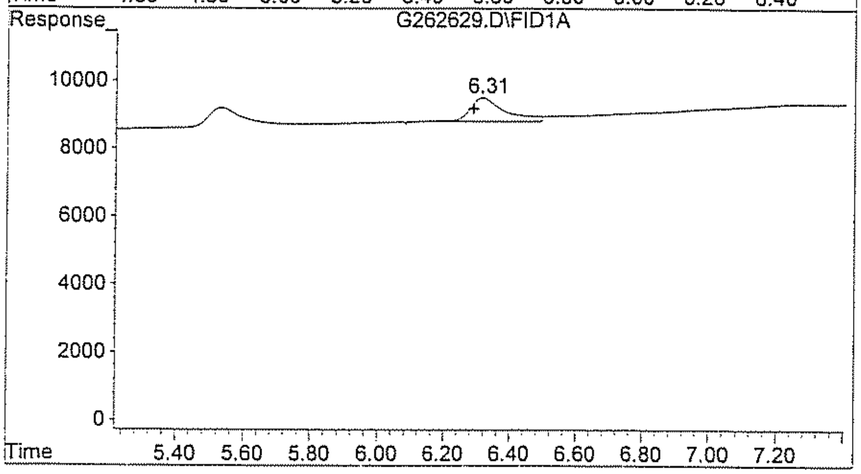
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.027 min
Response: 2693
Conc: 17.23 ppb m



#2 Ethane

R.T.: 5.530 min
Delta R.T.: 0.007 min
Response: 603
Conc: 25.43 ppb m



#3 Ethylene

R.T.: 6.313 min
Delta R.T.: 0.027 min
Response: 696
Conc: 23.41 ppb m

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

6. Injection Logsheet

7. Control Charts (where applicable)

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108833

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903071
Case No. :		SDG NO :	903071
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108833
Sample Volume :	10	Lab File ID :	G262618.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262618.D Vial: 36
Acq On : 24 Mar 2009 7:28 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:38 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.00	0	N.D.	ppb	d
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

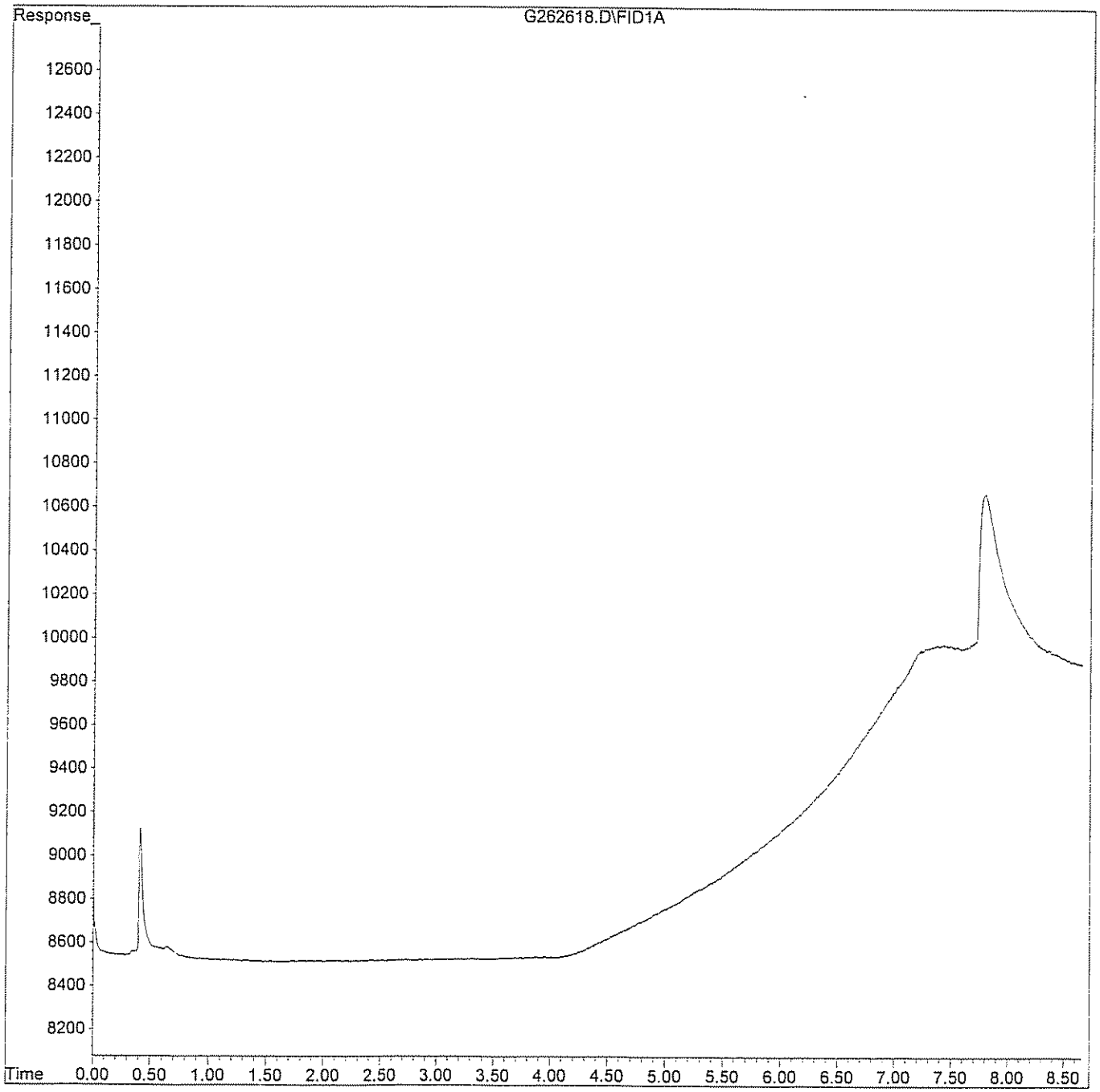
(f)=RT Delta > 1/2 Window (m)=manual int.

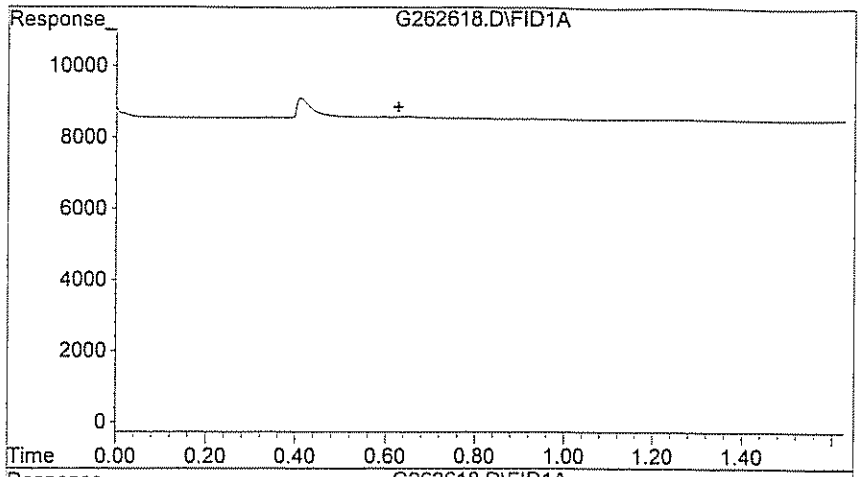
Quantitation Report

Data File : H:\GCDATA\G\032409\G262618.D
Acq On : 24 Mar 2009 7:28
Sample : BLK
Misc : BLK
IntFile : rteint.p
Vial: 36
Operator: TG
Inst : GC-G
Multiplr: 1.00
Quant Time: Mar 24 7:38 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

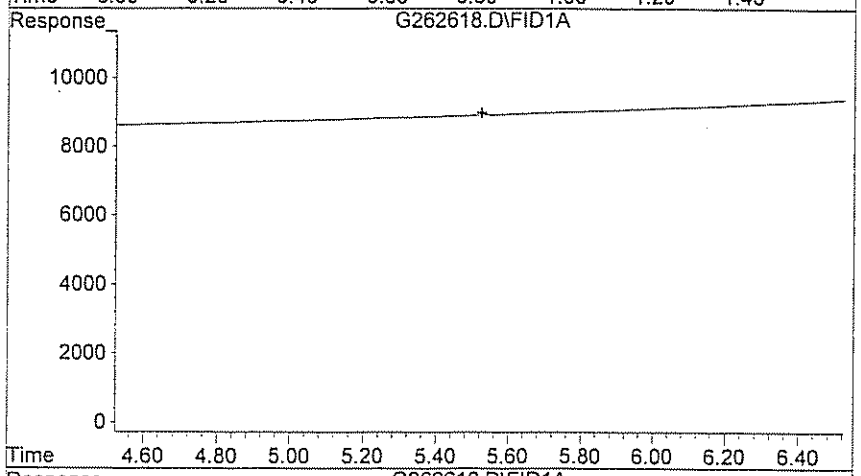
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





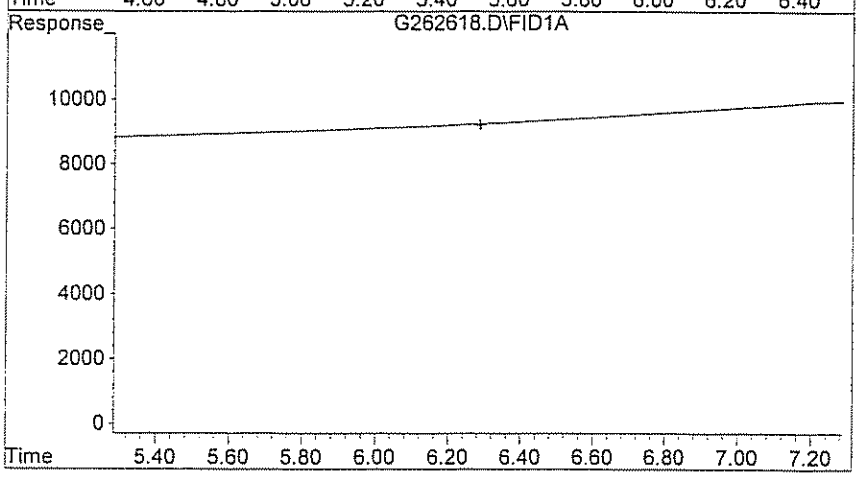
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-032-1/2MS
Sample Volume :	10	Lab File ID :	G262579.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	30	
74-85-1	Ethene	26	
74-82-8	Methane	16	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262579.D Vial: 13
Acq On : 20 Mar 2009 14:23 Operator: TG
Sample : 903062-006MS Inst : GC-G
Misc : OUI-16GW01-0309, CH2M, WATER, 10MLMS Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 14:49 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units
Target Compounds						
1)	T	Methane	0.62	2423	15.499	ppb
2)	T	Ethane	5.52	701	29.562	ppb
3)	T	Ethylene	6.29	759	25.530	ppb

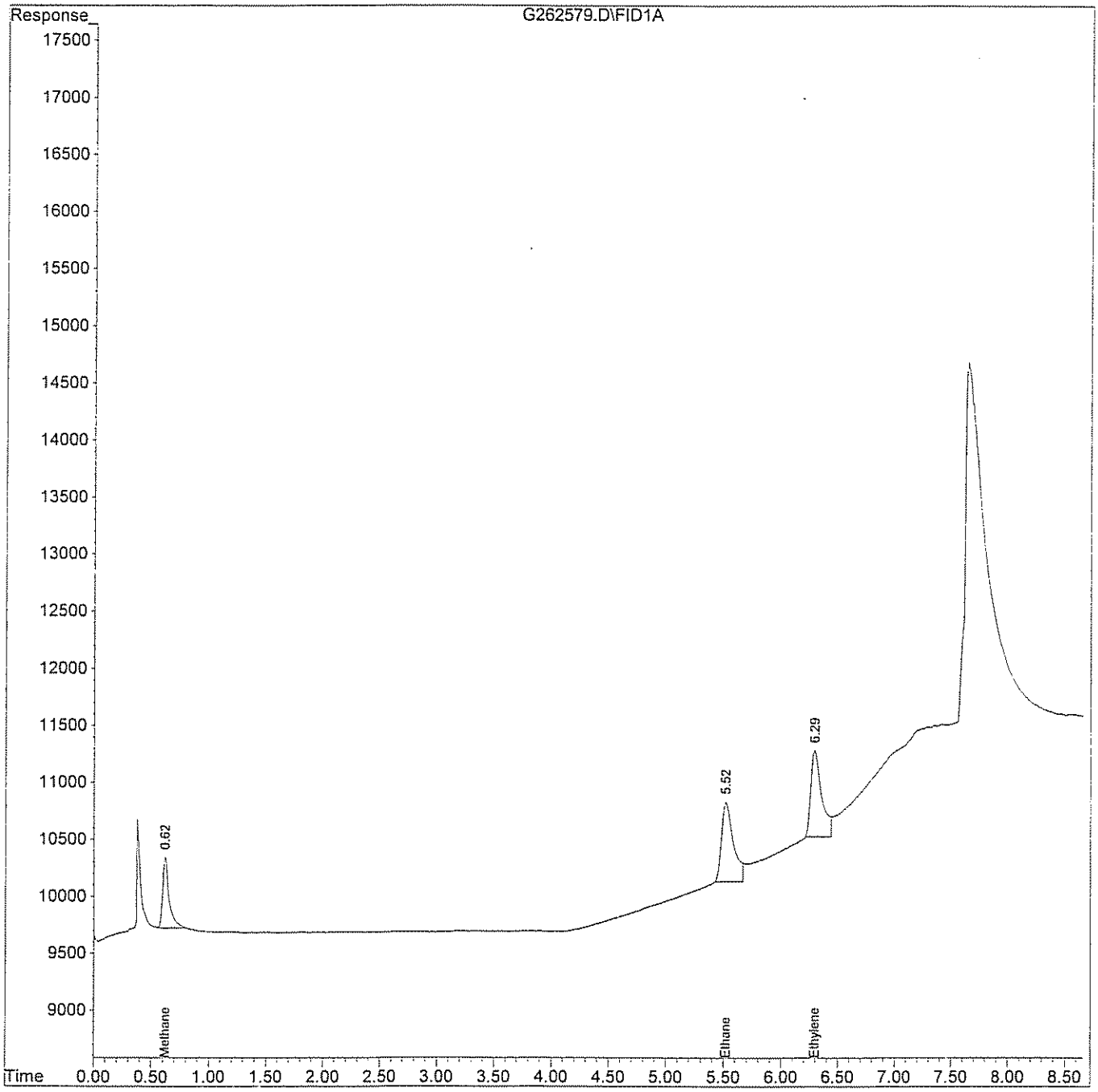
(f)=RT Delta > 1/2 Window (m)=manual

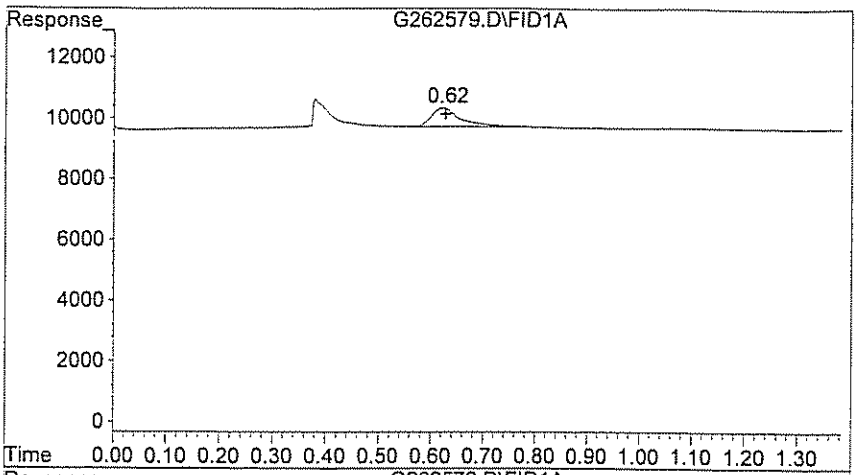
Quantitation Report

Data File : H:\GCDATA\G\032009\G262579.D Vial: 13
Acq On : 20 Mar 2009 14:23 Operator: TG
Sample : 903062-006MS Inst : GC-G
Misc : OUI-16GW01-0309, CH2M, WATER, 10MLMS Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 14:49 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

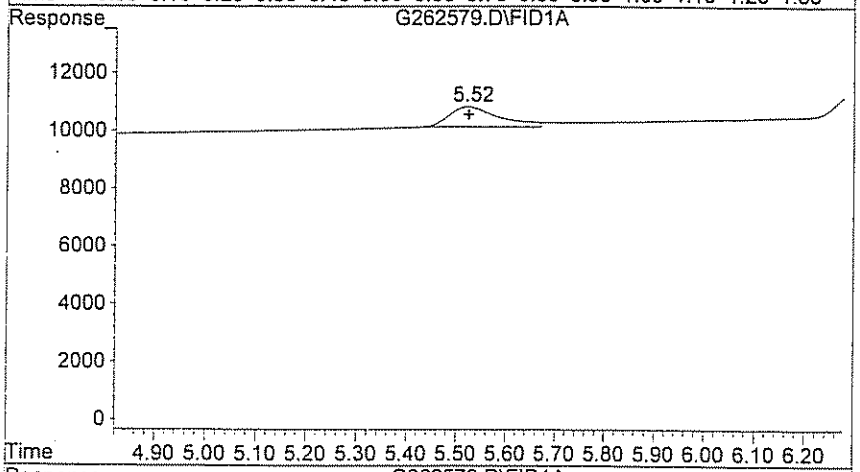
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





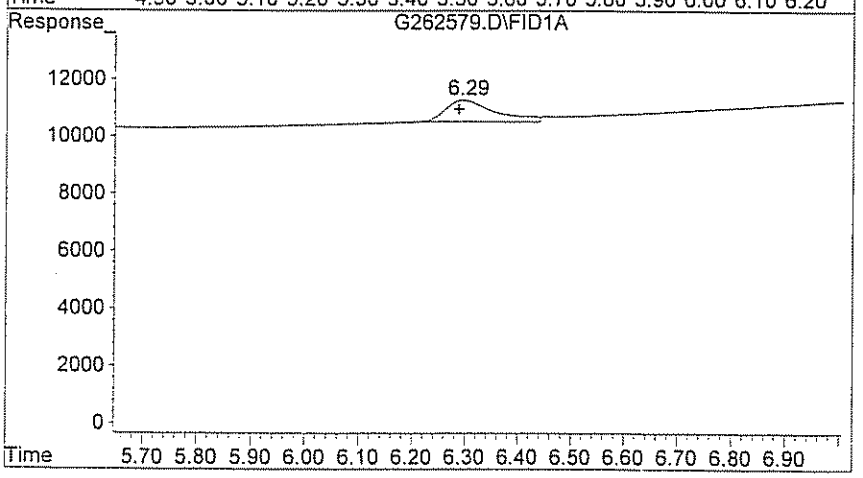
#1 Methane

R.T.:	0.620 min
Delta R.T.:	-0.007 min
Response:	2423
Conc:	15.50 ppb



#2 Ethane

R.T.:	5.520 min
Delta R.T.:	-0.003 min
Response:	701
Conc:	29.56 ppb



#3 Ethylene

R.T.:	6.293 min
Delta R.T.:	0.007 min
Response:	759
Conc:	25.53 ppb

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-032-1/2MSD
Sample Volume :	10	Lab File ID :	G262580.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	29	
74-85-1	Ethene	25	
74-82-8	Methane	16	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262580.D Vial: 14
Acq On : 20 Mar 2009 15:24 Operator: TG
Sample : 903062-006MSD Inst : GC-G
Misc : OUI-16GW01-0309,CH2M,10ML,MSD Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 15:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.62	2540	16.247	ppb	m
2) T	Ethane	5.52	687	28.971	ppb	
3) T	Ethylene	6.30	753	25.328	ppb	

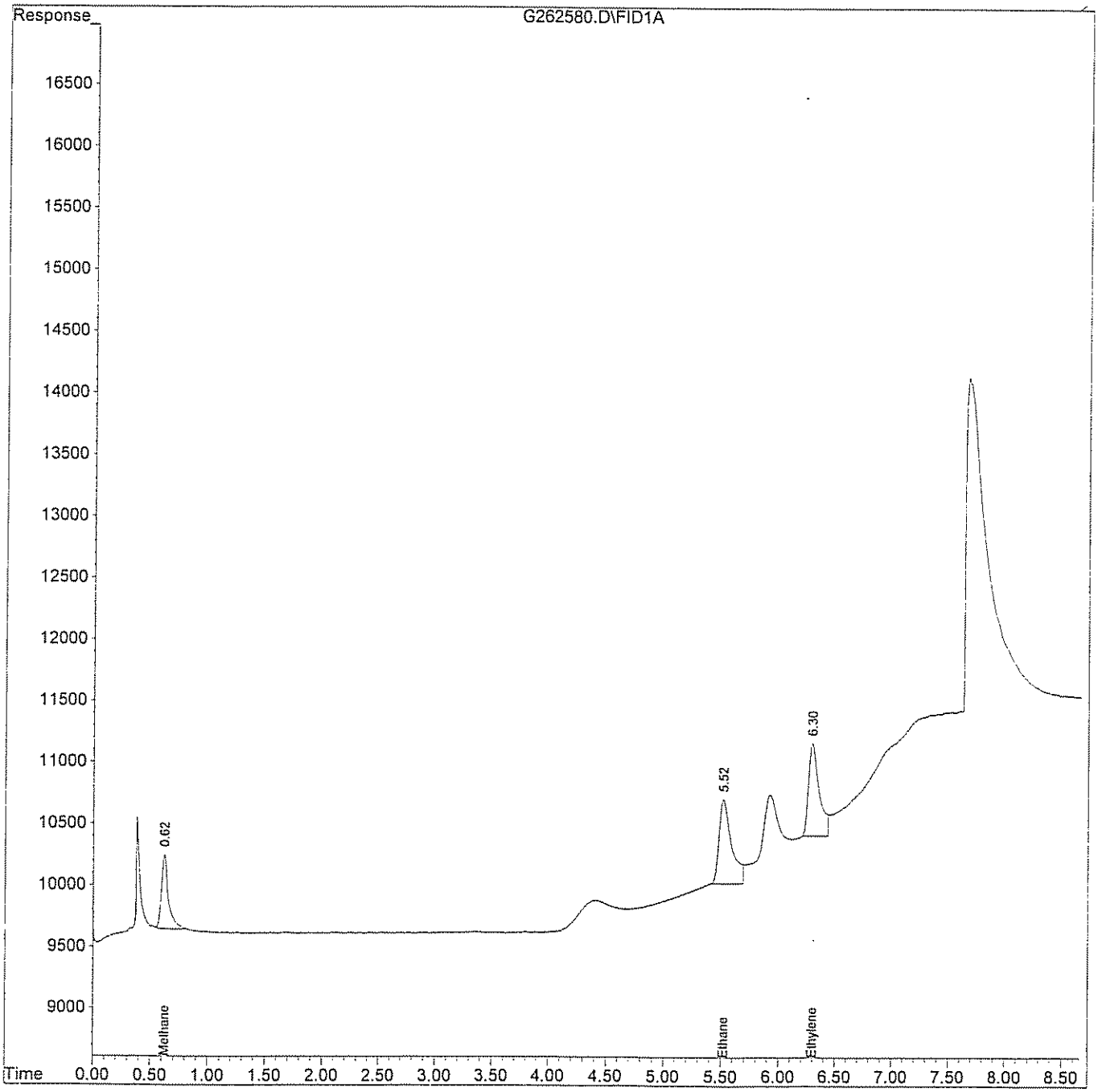
(f)=RT Delta > 1/2 Window (m)=manual
G262580.D RSK0320.M Mon Mar 23 11:38:38 2009 W28_IOANNIDE Page 1

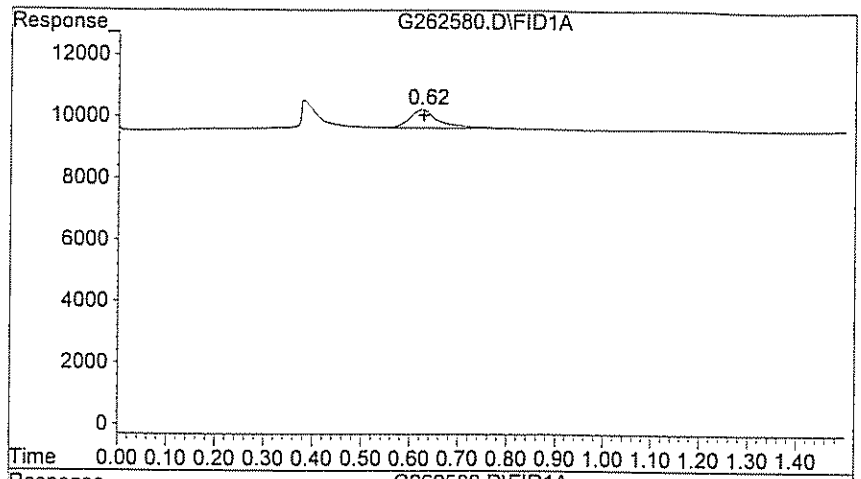
Quantitation Report

Data File : H:\GCDATA\G\032009\G262580.D Vial: 14
Acq On : 20 Mar 2009 15:24 Operator: TG
Sample : 903062-006MSD Inst : GC-G
Misc : OUI-16GW01-0309,CH2M,10ML,MSD Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 15:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

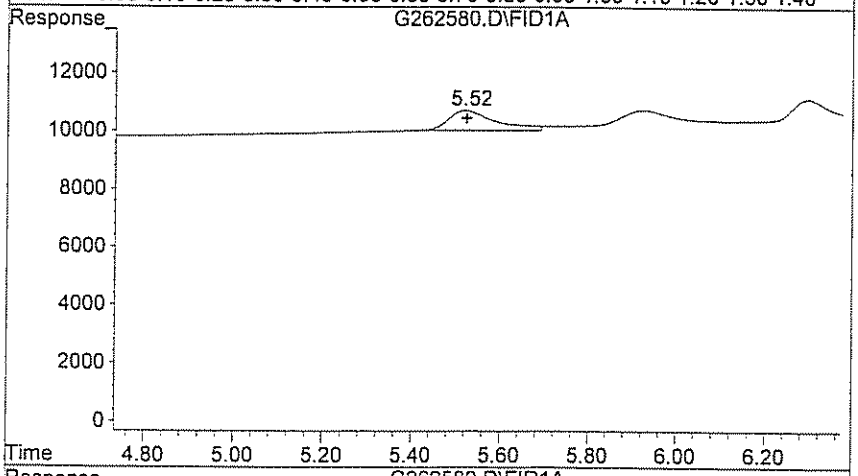
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





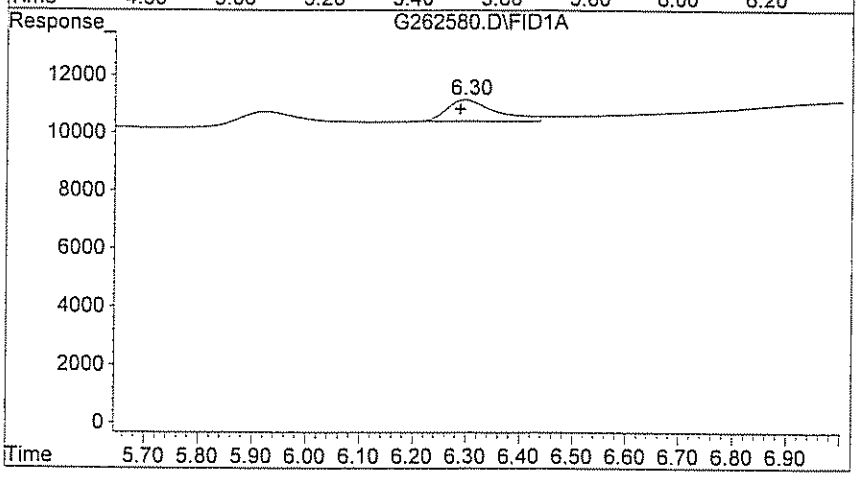
#1 Methane

R.T.: 0.623 min
Delta R.T.: -0.003 min
Response: 2540
Conc: 16.25 ppb m



#2 Ethane

R.T.: 5.520 min
Delta R.T.: -0.003 min
Response: 687
Conc: 28.97 ppb



#3 Ethylene

R.T.: 6.297 min
Delta R.T.: 0.010 min
Response: 753
Conc: 25.33 ppb

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: ✓ DATE: 3/25/09

INSTRUMENT ID: HP 5890 # G
ANALYSIS/FRACTION: VOA
ANALYSTS: TG
ICAL DATE: 3/20/09

METHOD FILE: RSK0320
SEQUENCE FILE: 03120109

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262567	Cal 01	3/20/09	1X	water	10mL	N/A	RSK175	OK
	G 68	cal 02							ok
	G 69	Cal 04							OK
	G 70	Cal 05							OK
	G 71	cal 010							OK
	G 72	BLK							OK
	G 73	903062-001							OK
	G 74	-002							OK
	G 75	-003							OK
	G 76	-004							need dilution 7L not used
	G 77	-005							need dilution 7 not used
	G 78	-006							OK
	G 79	-006MS							OK
	G 80	-006MSD							OK
	G 81	CCV05							OK
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								

TG 3/23/09

REMARKS

Standards	Lot #	Conc.	Prep. Date	Volume
methane	8282011L	1000ppm	3/18/2009	2.5mL
Ethane	9076051	↓	3/17/2009	↓
Ethylene	8014011L	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: N✓ DATE: 3/25/09

INSTRUMENT ID: HP 5890 # G
ANALYSIS/FRACTION: VOA
ANALYSTS: TG
ICAL DATE: 3/20/2009

METHOD FILE: RSK 0320.m
SEQUENCE FILE: 032409

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262617	CCV	3/24/09	STD	water	10ml	N/A	RSK125	ok
	G 18	BLK		↓		↓			ok
	G 19	903069-007MS		10X		1ml			ok
	G 20	-007MSD		10X		↓			ok need dilution not used
	G 21	-008		1X		10ml			
	G 22	-009		1X		↓			↓
	G 23	-008DL		50X		2.5ml			ok
	G 24	↓ -009DL		50X		↓			ok
	G 25	903071-001		1X		10ml			~~not~~ ok
	G 26	903071-002		1X		↓			ok
	G 27	903071-001DL		500X		2.5ml			ok needs dilutions ~~not used~~
	G 28	CCV		1X		10ml			ok needs dilutions ~~not used~~
	G 29	CCV				↓			ok needs dilutions ~~not used~~
	G 30	903071-003				1ml			ok needs dilutions ~~not used~~
	G 31	-004		↓		↓			
	G 32	-003DL		100X		100ml			ok
	G 33	-004DL		500X		2.5ml			ok needs dilutions ~~not used~~
	G 34	-005		1X		10ml			
	G 35	-DUPDL		20X		5.00ml			ok
	G 36	903093-001		1X		10ml			ok needs dilution ~~not used~~
	G 37	903093-002		↓		↓			
	G 38	903093-003		↓		↓			ok
	G 39	CCV		1X		10ml			ok
	G 40	BLK		↓		↓			ok
	G 41	903093-002DL		100X		100ml			ok ~~dilution~~
	G 42	903093-004	↓	1X	↓	10ml	↓	↓	~~need dilution not used~~

REMARKS

1/2

Standards	Lot #	Conc.	Prep. Date	Volume
methane	82820LL	1000PPM	3/18/2009	2.5ml
ethane	907805L	↓	3/17/2009	↓
ethylene	801401L	↓	7/16/2009	↓

3/25/09 TZ

GENERAL CHEMISTRY

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary
   (where applicable)

GPL Laboratories, LLLP

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903071

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-16GW33-0309	BQL	BQL	N/C	15%

%RPD - 0 out of 1 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-16GW30-0309	4.60	9.85	5.00	105	85 - 115%

% Recovery - 0 out of 1 outside control limits

B. Sample Data

GPL Laboratories, LLLP

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1																	
2																	
3																	
4	Sulfide	AN	903071-001-02	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
5	Sulfide	AN	903071-001-02	MD / S	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
6	Sulfide	AN	903071-002-02	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
7	Sulfide	AN	903071-003-02	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
8	Sulfide	AN	903071-004-02	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
9	Sulfide	AN	903071-005-02	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
10	Sulfide	AN	903093-001-03	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
11	Sulfide	AN	903093-002-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
12	Sulfide	AN	903093-003-04	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
13	Sulfide	AN	903093-004-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
14	Sulfide	AN	903093-005-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
15	Sulfide	AN	903093-006-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
16	Sulfide	AN	903093-007-04	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
17	Sulfide	AN	903093-008-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
18	Sulfide	AN	903098-001-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
19	Sulfide	AN	903098-002-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
20	Sulfide	AN	903098-002-08	MD / S	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
21	Sulfide	AN	903098-003-07	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
22	Sulfide	AN	903098-004-07	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
23	Sulfide	AN	903098-005-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
24	Sulfide	AN	903098-006-07	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
25	Sulfide	AN	903098-007-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
26	Sulfide	AN	903098-008-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
27	Sulfide	AN	903098-009-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
28	Sulfide	AN	903098-010-08	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
29	Sulfide	AN	903098-011-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
30	Sulfide	AN	903098-012-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
31	Sulfide	AN	903098-012-08	MD / S	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000

Method Title: Sulfide (Titrimetric)
Method Reference: MCAWW 376.1 / 9031
Normality of Iodine (Avg. N): 0.027
Detection Limit: 2.0 mg/L

Analyst: CP
Date / Time: 3.18.09 / 9.15am
Reviewed by/Date: C 3-18-09

ANALYSIS RAW DATA #124013

Work Order	Frac.	Client ID	Sample Vol. (ml)	Iodine (ml)	Sodium Thiosulfate (ml)	Sulfide mg/L
ICV		#4435	20mls	5	5.20	4.0
ICB		Blank	20mls	5	5.40	<2.0
903071	001		20mls	5	5.35	1.0 <2.0
" Dup	001		20mls	5	5.35	1.0 <2.0
"	002		20mls	5	5.40	<2.0
"	003		20mls	5	5.40	<2.0
"	004		20mls	5	5.40	<2.0
"	005		20mls	5	5.35	1.0 <2.0
903093	001		20mls	5	5.45	<2.0
"	002		20mls	5	5.40	<2.0
"	003		20mls	5	5.35	1.0 <2.0
"	004		20mls	5	5.40	<2.0
CCV1		#4435	20mls	5	5.18	4.4
CCB1		Blank	20mls	5	5.40	<2.0
903093	005		20mls	5	5.40	<2.0
"	006		20mls	5	5.40	<2.0
"	007		20mls	5	5.35	1.0 <2.0
"	008		20mls	5	5.40	<2.0
903098	001		20mls	5	5.40	<2.0
"	002		20mls	5	5.40	<2.0
" Dup	002		20mls	5	5.40	<2.0
"	003		20mls	5	5.35	1.0 <2.0
"	004		20mls	5	5.35	1.0 <2.0

CALCULATION:

1. mg/L Sulfide = $\frac{[(AXB) - (CXD)] \times 16000}{mL\ Sample}$ (0.135)

where:
A = ml Iodine ; B = Normality of iodine;
C = ml $Na_2S_2O_3$ titrant; D = Normality of $Na_2S_2O_3$

Continued →

* H2O Final Results = Dilution Factor X Concentration

Soil Final Results = $\frac{\text{Dilution Factor x Concentration x extract volume}}{\text{wt. of sample x \% solids}}$

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1								☐									
2								☐									
3								☐									
4	Total Organic Carbon	AN	903071-001-03	SMP /	SW9060	48.3	1.0000	☑	16.0932	3.00000000	MGL	MGL	48.3000	0	0.0000	0.00	48.2796
5	Total Organic Carbon	AN	903071-002-03	SMP /	SW9060	1.03	1.0000	☑	1.0274	1.00000000	MGL	MGL	1.0300	0	0.0000	0.00	1.0274
6	Total Organic Carbon	AN	903071-003-04	SMP /	SW9060	4.60	1.0000	☑	4.5966	1.00000000	MGL	MGL	4.6000	0	0.0000	0.00	4.5966
7	Total Organic Carbon	AN	903071-003-04	MS / S	SW9060	9.85	1.0000	☑	9.8520	1.00000000	MGL	MGL	9.8500	0	5.0000	105.00	9.8520
8	Total Organic Carbon	AN	903071-004-04	SMP /	SW9060	5.18	1.0000	☑	5.1757	1.00000000	MGL	MGL	5.1800	0	0.0000	0.00	5.1757
9	Total Organic Carbon	AN	903071-005-04	SMP /	SW9060	3.75	1.0000	☑	3.7491	1.00000000	MGL	MGL	3.7500	0	0.0000	0.00	3.7491

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / 9060 #44335

Analyst: DAH
Date: 3-25-09 / TOC
Reviewed by / Date: 3/31/09

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
#43278	TCV	20	3	10.9157	10.92	32.7
blank	TCV	20	1	0.1721	0.17	<1.0
903071-001 (1)	Mean = 16.0931 reading = 48.28 mg/L	20	3	15.9413	15.94	47.82
(2)				16.1210	16.12	48.36
(3)				16.2035	16.20	48.61
(4)				16.1068	16.11	48.32
903071-002 (1)	Mean = 1.0273 mg/L	20	1	1.0516	1.05	1.05
(2)		20	1	1.0655	1.07	1.07
(3)		20	1	1.0136	1.01	1.01
(4)		20	1	0.9787	0.98	<1.0
903071-003 (1)	Mean = 4.5966 mg/L	20	1	4.5802	4.58	4.58
(2)				4.6051	4.61	4.61
(3)				4.5907	4.59	4.59
(4)				4.6103	4.61	4.61
#43278	CCV1	20	3	11.0489	11.05	33.1
blank	CCV1	20	1	0.2374	0.24	<1.0
903071-003MS (1)	Mean = 9.8520 mg/L	20	1	9.8577	9.86	9.86
(2)	spike = 500 ug/L #41741	20	1	9.8463	9.85	9.85
903071-004 (1)	Mean = 5.1757 mg/L	20	1	5.1269	5.13	5.13
(2)				5.1394	5.14	5.14
(3)				5.2063	5.21	5.21
(4)				5.2302	5.23	5.23
903071-005 (1)	Mean = 3.7491 mg/L	20	1	4.1453	4.15	4.15

Continued →

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml)}}{\text{Sample weight (g) x \% solids}}$

(If not detected, report < 1.0 mg/L)

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / ~~9060~~ Cat.

Analyst: DAH
Date: 5-25-09 / 1800
Reviewed by / Date: 05-26-09

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / ~~mg/Kg~~
903071 -005 (3)		20	1	3.7047	3.70	3.70
(3)		"	"	3.6340	3.63	3.63
(4)		"	"	3.5122	3.51	3.51
#43278		20	3	10.9712	10.97	32.9
blank		20	1	0.2421	0.24	<1.0

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml)}}{\text{Sample weight (g) x \% solids}}$
(If not detected, report < 1.0 mg/L)

Detailed Analysis Report Print Date/Time: 2009/03/25 8:17:01

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03250436
Timestamp: 03/25/2009 04:43
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.9157	43.6627	6759754	10.356	11.355	120

Sample ID: ICB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03250444
Timestamp: 03/25/2009 04:49
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1721	0.6885	162843	10.379	11.371	52

Sample ID: 903071-001x3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03250504
Timestamp: 03/25/2009 05:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15.9413	63.7653	9798457	10.331	11.330	143
2	16.1210	64.4841	9908262	10.390	11.389	142
3	16.2035	64.8138	9958637	10.458	11.457	136
4	16.1068	64.4272	9899572	10.464	11.463	138

<<<Statistics>>> Mean: 16.0932 Std Dev: 0.1098 RSD: 0.68

Sample ID: 903071-002
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03250538
Timestamp: 03/25/2009 06:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

				Baseline	Baseline	Time
1	1.0655	4.2618	708706	10.352	11.347	66
2	1.0516	4.2064	700232	10.363	11.359	67
3	1.0136	4.0544	677020	10.366	11.364	66
4	0.9787	3.9148	655700	10.424	11.424	66

<<<Statistics>>> Mean: 1.0274 Std Dev: 0.0392 RSD: 3.81

Sample ID: 903071-003
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03250602
Timestamp: 03/25/2009 06:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.5802	18.3208	2856348	10.498	11.498	107
2	4.6051	18.4206	2871597	10.522	11.519	107
3	4.5907	18.3628	2862773	10.462	11.460	101
4	4.6103	18.4411	2874730	10.421	11.418	90

<<<Statistics>>> Mean: 4.5966 Std Dev: 0.0137 RSD: 0.30

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03250627
Timestamp: 03/25/2009 06:33
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.0489	44.1955	6841149	10.351	11.346	142

Sample ID: CCB1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03250634
Timestamp: 03/25/2009 06:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2374	0.9497	202747	10.438	11.436	51

Sample ID: 903071-003MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03250643
Timestamp: 03/25/2009 06:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.8577	39.4307	6081101	10.357	11.353	125
2	9.8463	39.3851	6074135	10.546	11.545	122

<<<Statistics>>> Mean: 9.8520 Std Dev: 0.0081 RSD: 0.08

Sample ID: 903071-004
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03250657
Timestamp: 03/25/2009 07:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.1269	20.5077	3190429	10.579	11.579	166
2	5.1394	20.5576	3198055	10.637	11.637	168
3	5.2063	20.8251	3238914	10.587	11.586	174
4	5.2302	20.9209	3253552	10.489	11.486	177

<<<Statistics>>> Mean: 5.1757 Std Dev: 0.0504 RSD: 0.97

Sample ID: 903071-005
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03250734
Timestamp: 03/25/2009 08:00
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.1453	16.5813	2590629	10.297	11.297	158
2	3.7047	14.8188	2321389	10.493	11.492	129
3	3.6340	14.5359	2278171	10.506	11.505	129
4	3.5122	14.0489	2203780	10.589	11.588	108

<<<Statistics>>> Mean: 3.7491 Std Dev: 0.2759 RSD: 7.36

Sample ID: 43278 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03250801
Cal. Curve: WATER LOW Timestamp: 03/25/2009 08:08
Operator ID: DH Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.9712	43.8849	6793707	10.566	11.565	130

Sample ID: CCB2 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03250809
Cal. Curve: WATER LOW Timestamp: 03/25/2009 08:14
Operator ID: DH Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2421	0.9684	205602	10.719	11.714	50

C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLLP

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903071 STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.40	110	70 - 130%

Method Title: Sulfide, Titrimetric, Sodium Thiosulfate
Method Reference: MCAWW 376.1 / 9031

Analyst: CP
Date / Time: 3-18-09 / 9:15 am
Reviewed by/Date: 3-18-09

Instrument/Apparatus: Titration

Calibration:

Standardization Iodine Solution

Iodine Solution N = ml of $Na_2S_2O_3$ X 0.025N / 5 ml of Iodine

	ID#	Vol. Used / ml	Normality
Sodium Thiosulfate	# 45177	5.40	0.025 N
Sodium Thiosulfate	# 45177	5.40	0.025 N
Iodine solution	# 44753	5	N 1= 0.027
Iodine solution	# 44753	5	N 2= 0.027
			Avg N = 0.027

QC Analysis

ICV Analysis

ICV ID: # 44135 (1000 µg/L)
T.V.: 4.0 µg/L
Acceptance Range: 70 - 130%
ICV 4.0 µg/L CCV1 4.4 µg/L CCV2 4.0 µg/L
% Rec: ICV 100% CCV1 110% CCV2 100%

Duplicate Analysis Acceptance Range: 15%

Sample ID #1: 403071-001
Init. Sample Value #1: <2.0 µg/L
Dup. Sample Value #1: <2.0 µg/L
RPD #1: 0

Sample ID #2: 403098-002
Init. Sample Value #2: <2.0 µg/L
Dup. Sample Value #2: <2.0 µg/L
RPD #2: 0

LCS Analysis

LCS ID: N/A
T.V.:
F.V. #1:
% R #1:

LCS ID:
T.V.:
F.V. #2:
% R #2:

Reagent:
Starch Indicator ID: # 44045
HCL ID: # 45241

Comments:

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903071 STD Solution ID: #43278

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	31.9	32.7	103	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	33.1	104	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	32.9	103	90 - 110%

Method Title: Total Organic Carbon
Method Reference:MCAWW 415.1 / SM5310C/MCAWW415.2
Lloyd Kahn / 9060 water

Analyst: DAH
Date: 3-25-09 / 1600
Reviewed by / Date: 3-26-09

Instrument/Apparatus: Pheonix 8000 - #G

Calibration:
A. 1000ppm Stock Standard Solution
B. 2000ppm Working Standard Solution
C. 10ppm Working Standard Solution

ID: #41761

Calibration Curve: Calibrated 2-25-09

Std. Conc. mg/L	ml Stock Solution	F.V. ml	Instrument Reading
0		100	99421
1.0		100	696265
2.5		100	1601749
5.0		100	3175560
10		100	6124574
15		100	9349555
20		100	12272438
		100	

Corr. Coeff: (≥ 0.9950) .99987
y-Intercept: 89838
Slope: 1.528×10^5
System Blank: 57,668

QC Analysis
QC ID: #43278
T.V.: 31.9 mg/L

Acceptance Range: 90-110%
Found Value:
ICV 32.7 mg/L
% Recovery:
ICV 103%

CCV1 33.1 mg/L CCV2 _____
CCV1 104% CCV2 _____

Matrix Spike Analysis:
Spike Acceptance Range: 15%
Sample ID #1 40307-003 Sample ID #2 _____
Sample Value #1 4.60 mg/L Sample Value #2: _____
Spike Sample Value #1 9.85 mg/L #2: _____
Spike Amount: 5.0 mg/L
% Recovery #1 105% #2: _____

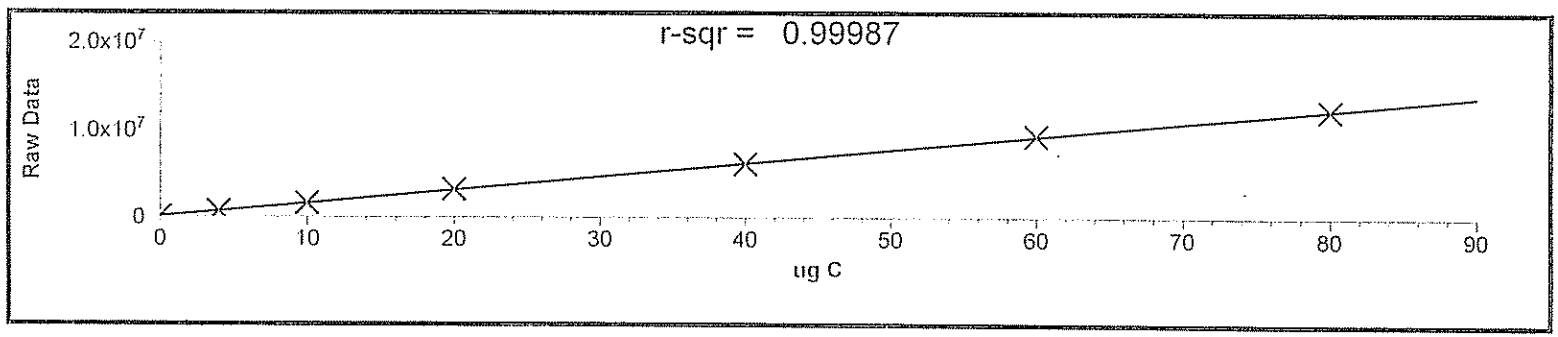
Duplicate Analysis
Dup Acceptance Range: 15%
Sample ID #1 / #2 N/A / _____
Init. Samp. Value #1 / #2 _____ / _____
Dup. Samp. Value #1 / #2 _____ / _____
RPD #1 / #2 _____ / _____

Comments: _____

Calibration Report Print Date/Time: 2009/03/24 0:48:09

Cal. Curve ID: WATER LOW
Created: 02/25/2009 14:35
Calibration Factor (m): 1.528e+05
Y Intercept (b): 89838
r-squared: 0.99987

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
Blank	99421	0.000	0.063		02/25/2009 13:25
1ppm	696265	4.000	3.970		02/25/2009 13:32
2.5ppm	1601749	10.000	9.897		02/25/2009 13:39
5ppm	3175560	20.000	20.200		02/25/2009 13:46
10ppm	6124574	40.000	39.505		02/25/2009 13:54
20ppm	12272438	80.000	79.750		02/25/2009 14:16
15ppm	9349585	60.000	60.616		02/25/2009 14:34



GPL Laboratories, LLLP

Data Package Checklist

Work Order #: 903071

		Yes	No	N/A
1.	Work order Chain-of-Custody reviewed For discrepancies?	____	____	____
2.	Chain-of-Custody forms completed accurately?	____	____	____
3.	Data Package Review:			
	A. Case narrative included?	____	____	____
	B. CLP forms included? (forms I-X or as applies)	____	____	____
	C. Supporting data included:			
	i. Analytical data?	____	____	____
	ii. Digestion logs?	____	____	____
	iii. Extraction logs?	____	____	____
	iv. Injection logs?	____	____	____
	D. Data defect summary included?	____	____	
	E. Package ready for project manager review?	____	____	

Comments:

_____

_____

_____

Checklist performed by: _____ Date: _____

Project Manager approval: _____ Date: _____

GPL Laboratories

Work Order Approval

Work Order #: 903071
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-13-2009
Fax Due Date: Mar-27-2009
HC Due Date: Mar-27-2009
EDD Due Date Mar-27-2009

APPROVED

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

Contact: Emma Brower
Phone: 7033765082
Fax: 7033765582
E-Mail:

Comments: Level 4 Data Package
SNEDD EDD
ALL METHODS MUST MEET QSM VERSION 3 GUIDELINES.
For TOC Analysis CH2M Hill requests quadruplicate results on form 1's, and average result in EDD.

Lab ID : 903071-001 Field ID : OU1-16GW33-0309 Date Collected : 12-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev	Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-2	HC		28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-2	HC		28D	
Inorganic Anions by EPA 300	W	8	A-6A	COOL		7D	
Sulfide by EPA 376.1	W	8	A-6A	SAPC		7D	
Total Organic Carbon	W	8	A-6A	SCPH2		7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-2	HC		21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-2	HC		21D	

Lab ID : 903071-002 Field ID : OU1-16MW28-0309 Date Collected : 12-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev	Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	7	A1-2	HC		28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	7	A1-2	HC		28D	
Inorganic Anions by EPA 300	W	7	A-6A	COOL		7D	
Sulfide by EPA 376.1	W	7	A-6A	SAPC		7D	
Total Organic Carbon	W	7	A-6A	SCPH2		7D	
VOC by Method SW-846 using 25 ML Purge	W	7	A1-2	HC		21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	7	A1-2	HC		21D	

Lab ID : 903071-003 Field ID : OU1-16GW30-0309 Date Collected : 12-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev	Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-2	HC		28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-2	HC		28D	
Inorganic Anions by EPA 300	W	8	A-6A	COOL		7D	
Sulfide by EPA 376.1	W	8	A-6A	SAPC		7D	
Total Organic Carbon	W	8	A-6A	SCPH2		7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-2	HC		21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-2	HC		21D	

Approved By: _____ **Date and Time Approved :** 3-13-09

GPL Laboratories

Work Order Approval

Work Order #: 903071
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-13-2009
Fax Due Date: Mar-27-2009
HC Due Date: Mar-27-2009
EDD Due Date Mar-27-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903071-004 Field ID : OU1-16GW31-0309 Date Collected : 12-MAR-09

Method Name	*Mtx*	*#Cont*	*Storage Loc*	*Presev Class*	*TAT*	*Comments*
GCFID Analysis of hydrocarbon gases	W	8	A1-2	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-2	HC	28D	
Inorganic Anions by EPA 300	W	8	A-6A	COOL	7D	
Sulfide by EPA 376.1	W	8	A-6A	SAPC	7D	
Total Organic Carbon	W	8	A-6A	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-2	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-2	HC	21D	

Lab ID : 903071-005 Field ID : OU1-S3W3-0309 Date Collected : 12-MAR-09

Method Name	*Mtx*	*#Cont*	*Storage Loc*	*Presev Class*	*TAT*	*Comments*
GCFID Analysis of hydrocarbon gases	W	8	A1-2	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-2	HC	28D	
Inorganic Anions by EPA 300	W	8	A-6A	COOL	7D	
Sulfide by EPA 376.1	W	8	A-6A	SAPC	7D	
Total Organic Carbon	W	8	A-6A	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-2	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-2	HC	21D	

Lab ID : 903071-006 Field ID : OU1-TB05-0309 Date Collected : 12-MAR-09

Method Name	*Mtx*	*#Cont*	*Storage Loc*	*Presev Class*	*TAT*	*Comments*
VOC by Method SW-846 using 25 ML Purge	W	3	A1-2	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-2	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

CTO 59

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

~~Contract #/Billing Reference~~
Nitrate and Nitrite is 48 hours
Sulfate is 28 days

1 of 1 Pgs.

Project: Groundwater Sampling at OU1, MCAS Cherry Point
Client: CH2M Hill
Send Results To: Bill Hannah
Address: 5700 Cleveland St. Suite 101
Virginia Beach, Va. 23462
Phone: 757-671-6277

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	SW846 8260B (VOCs)	EPA 300.0 (Nitrate, Nitrite and Chloride)	EPA 376.1 (Sulfide)	RSK-175 (Methane, Ethane, Ethene)	SW846 9060 (Total Organic Carbon)						Lab Cooler No.	CLIENT COMMENTS
Turnaround Time					14 days	See Above	7 days	14 days	28 days							
# of Containers					3	1	1	2	1							
Container Type					VOA	8oz Plastic	8oz Plastic	VOA	8oz Plastic							
Preservative Used					HCL	None	NaOH	HCL	H2SO4							
Type of Analysis																
OU1-16GW33-0309	3/12/09	14:05	Water	PVT	3	1	1	2	1							
OU1-16MW28-0309	3/12/09	10:53	Water	KB	3	1	1	1	1							one of the VOAs for RSK-175 missing
OU1-16GW30-0309	3/12/09	14:02	Water	KB	3	1	1	2	1							
OU1-16GW31-0309	3/12/09	15:08	Water	KB	3	1	1	2	1							
OU1-33W3-0309	3/12/09	12:12	Water	KB	3	1	1	2	1							
OU1-TB05-0309	3/12/09	—	Water	KB	3											QA/QC

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Dana Miller	03/12/09 17:20				3-13-09 1010
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
Relinquished By:	Date/Time	Received By:	Lab Comments:		Temp: 3.0

G.P. W.O. 903071

GPL Laboratories, LLLP

Figure 3

Sample Preservation Check Documentation Form

Work Order: 903071

Parameter: / Preservative: / pH Value	Metals (*A) HNO3 <2	Phenol H2SO4 <2	TPH O&G H2SO4 <2	Classical Parameters H2SO4 <2	Cyanide NaOH >12	Sulfide NaOH >9	Radiology (*B) HNO3 <2	Other Preservatio Adjustment	Reagent Lot #	see checklist for comments
GPL ID										
903-16GW33-0309				✓		✓		Y / N		
903-16GW28-0309				✓		✓		Y / N		
903-16GW30-0309				✓		✓		Y / N		
903-16GW31-0309				✓		✓		Y / N		
903-SBGW3-0309				✓		✓		Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
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								Y / N		
								Y / N		
								Y / N		

(*A). If drinking water metals sample is acidified in the laboratory,
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.

(*B). If Radiochemistry sample is acidified in the laboratory,
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.
Tritium analysis should NOT be preserved.

Sample Preservation Check Performed By: _____ Date: 3-13-09

FedEx Express US Airbill

8689 0120 8646

0200

FedEx Retrieval Copy

1 From

Date 9/11/07

Sender's FedEx Account Number

Sender's Name [illegible] Phone 301 163-1648

Company CIVIL WELL Inc.

Address 165 Tower Center Drive Dept/Floor/Suite/Room Rm 301

City Woodbine State MD ZIP 21797

2 Your Internal Billing Reference

3 To

Recipient's Name Attn: Sample Receiving Phone 301 854-3310

Company CPL Laboratories

Recipient's Address 4710 A Forbes Blvd

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room

Address

You must provide a street address. If you have a P.O. box, please provide it in the address line below.

City Frederick State MD ZIP 21703

8689 0120 8646

4a Express Package Service — Packages up to 150 lbs.

1 FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. 20

FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

* Higher charges may apply for Saturday delivery. Not available to select locations.

4b Express Freight Service — Packages over 150 lbs.

7 FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 FedEx 2Day Freight* — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. 83

FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation. ** Higher charges may apply.

5 Packaging

6 FedEx Envelope* 2 FedEx Pak* 3 FedEx Box 4 FedEx Tube 1 Other

* Declared value limit $500

6 Special Handling — Include FedEx address in Section 3.

3 SATURDAY Delivery — Not available for FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

1 HOLD Weekday at FedEx Location — Not available for FedEx Ground Economy.

31 HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

1 No 4 Yes — As per attached Shipper's Declaration 5 Yes — Shipper's Declaration not required 6 Dry Ice — Dry Ice, 9, UN 1845 — Cargo Aircraft Only

Packaging must be approved by FedEx before shipping. Additional charges may apply. See back for more information.

7 Payment Bill to: — Enter FedEx Acct. No. or Credit Card No. below. — Obtain Recip. Acct. No.

1 Sender 2 Recipient 3 Third Party 4 Credit Card 5 Cash/Check

Total Packages: 1 Total Weight: 5lb

Value/Declared Value: Limited to $100 unless you declare a higher value. See back for more information. FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options — Signature options do not apply to Express Freight Service.

No Signature Required — Package may be left without obtaining a signature for delivery. 10

Direct Signature — Someone at recipient's address may sign for delivery. 34

Indirect Signature — If no one is available to sign at recipient's address, someone at a neighboring address may sign for delivery.

520

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fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339

GPL Laboratories, LLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903071

Client Name: CH2M Hill

Date Received: 3-13-09

Time Received: 1010

Received By: Travis

Carrier Name: Fed Ex

Prepared (Logged In) By: TP 3-13-09

Project:

Site:

VOA Holding Blank ID No:

	YES	NO
Airbill/Manifest Present?	✓	
No: 8659 6170 8646		
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?	✓	
Condition: Good ✓ Broken		
Chain of Custody Present?	✓	
Chain of Custody Agrees with Sample Labels?	✓	
Chain of Custody Signed?	✓	
Packing Present in Shipping Container?	✓	
Type of Packing Bubble wrap		
Custody Seals on Sample Bottles?	✓	
Condition: Good ✓ Broken		
Total Number of Sample Bottles 42	✓	
Total Number of Samples 6	✓	
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks Received?	✓	
No. of Sets 1		
VOA Vials Have Zero Headspace?		✓
Preservatives Added to Sample?	✓	
pH Check Required?	✓	
Performed By: TP		
Ice Present in Shipping Container?	✓	

Container #	Temperature
1	3°

Project Manager Contacted?

Name: Garth

Date Contacted: 3-13-09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: ONE VIAL FOR VOA HAD LEAKED OUT GPL WILL BE ABLE TO RUN ALL ANALYSIS FOR VOA WITH THE TWO REMAINING VIALS.

Checklist Completed By: TP

Date: 3-13-09

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903071

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Six water samples were received on 03/13/2009. The samples were delivered by Federal Express. Sample receipt conditions an temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soi are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Six water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
The surrogate recoveries and internal standard responses were within the QC limits.
A matrix spike and matrix spike duplicate were shared from work order 903080. The RPDs of two compounds, out of forty-nine, were outside of the RPD QC limits, and sixteen spike recoveries, out of ninety-eight, were outside of the QC limits.
A laboratory control sample was analyzed along with each of the sample batches. BKS108792 had eight spike recoveries outside of the QC limits. BKS108803 had six spike recoveries outside of the QC limits. BKS108804 had four spike recoveries outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrate compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

SW 3/25/09

Work Order: 903071 Method: 8260

Volatiles Package Review Checklist

Case Narrative	*Analyst*	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.	✓	
2. All nonconformances and corrective action must be mentioned and explained.	✓	
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	
4. If reanalyses were performed, one analysis must be designated to report results.	✓	

QC summary forms	✓	
1. All QC summary forms must be provided for all sample batches.		
2. Double-check spike amounts for the LCS and MS/MSD.	✓	
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	
4. A form 5 for the initial calibration must be provided.	✓	

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	
$\frac{\text{Raw Conc.} \times (5/\text{mass})}{1 - (\%\text{moisture}/100)}$ *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	

Work Order: 903071 Method: 8260

3. Column name & ID are properly labeled.	✓	
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{\text{10mL of MeOH}}{\text{grams of soil}} \times \frac{\text{5mL Purge Volume}}{\text{mL of Extract Spiked}}$	✓	
5. All analyte recoveries over the calibration limit are flagged "E".	✓	
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	✓	
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	✓	

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	
2. All continuing calibrations used to analyze the samples are included.	✓	
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	✓	
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	
4. Injection Logbook copies must be provided for all analysis sequences.	✓	
5. If TCLP, a copy of the Extraction Log must be provided.	✓	
6. If Encore samples, a copy of the Sample Weight Log must be provided.	✓	

Analyst Signature: _____ Date: 3/25/09

Reviewer Signature: _____ Date: _____

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903071

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Six water samples were received on 03/13/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Six water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
The surrogate recoveries and internal standard responses were within the QC limits.
A matrix spike and matrix spike duplicate were shared from work order 903080. The RPDs of two compounds, out of forty-nine, were outside of the RPD QC limits, and sixteen spike recoveries, out of ninety-eight, were outside of the QC limits.
A laboratory control sample was analyzed along with each of the sample batches. BKS108792 had eight spike recoveries outside of the QC limits. BKS108803 had six spike recoveries outside of the QC limits. BKS108804 had four spike recoveries outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Five water samples were analyzed for Chloride, Nitrate as Nitrogen, and Nitrite as Nitrogen by EPA method 300.0.

Matrix spike and duplicate analyses were performed on sample OUI-MW50-0309. Percent recoveries for Nitrite as Nitrogen and Chloride were outside the QC limits. Since the laboratory control sample recoveries for these analytes were within the QC limits, no corrective action was taken. All other QC criteria were met.

A laboratory control sample was analyzed along with the batch. All QC criteria were met.

JCSA 3/27/09

General Chemistry

Five water samples were analyzed for Sulfide by EPA method 376.1. A duplicate analysis was performed on sample OU1-16GW33-0309. All QC criteria were met.

Five water samples were analyzed for Total Organic Carbon by SW846 method 9060. All samples were analyzed in quadruplicate. A matrix spike analysis was performed in duplicate on sample OU1-16GW30-0309. All QC criteria were met.

Other Analysis

GPL LABORATORIES, LLLP

IC CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903071

PARAMETER: E300

	CRITERIA MET YES	NO	NA
EXTRACTION HOLDING TIMES			✓
ANALYSIS HOLDING TIMES	✓		
CALIBRATION CURVE	✓		
IF NO,			
INITIAL CALIBRATION	✓		
IF NO,			
CONTINUING CALIBRATION	✓		
RETENTION TIME	✓		
METHOD BLANK	✓		
MS/MSD RECOVERIES		✓*	
IF NO	*SOP narrative		
DUP RECOVERIES	✓		
LCS RECOVERIES	✓		
CALCULATION CHECK	✓		
Is the peak integration in all initial and continuing calibrations as well as each chromatogram, conducted correctly, and in accordance with good laboratory practices and the GPL policies, SOPs and QA manual? IF" NO", the affected chromatograms must be immediately reviewed and re-integrated by the Lab Director and the QA manager,prior to their final release.	✓		
Has the manual integration been signed off on (initialled and dated)?	✓		
WAS IMPORTATION INTO LIMS CORRECT?	✓		JGS Initials

ADDITIONAL COMMENTS

SIGNATURE [signature] DATE 3/27/09

REVIEWED BY [signature] DATE

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903071

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Six water samples were received on 03/13/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Six water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
The surrogate recoveries and internal standard responses were within the QC limits.
A matrix spike and matrix spike duplicate were shared from work order 903080. The RPDs of two compounds, out of forty-nine, were outside of the RPD QC limits, and sixteen spike recoveries, out of ninety-eight, were outside of the QC limits.
A laboratory control sample was analyzed along with each of the sample batches. BKS108792 had eight spike recoveries outside of the QC limits. BKS108803 had six spike recoveries outside of the QC limits. BKS108804 had four spike recoveries outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

General Chemistry

Five water samples were analyzed for Sulfide by EPA method 376.1. A duplicate analysis was performed on sample OU1-16GW33-0309. All QC criteria were met.

Five water samples were analyzed for Total Organic Carbon by SW846 method 9060. All samples were analyzed in quadruplicate. A matrix spike analysis was performed in duplicate on sample OU1-16GW30-0309. All QC criteria were met.

GPL LABORATORIES, LLLP

WET CHEM CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903071

PARAMETER: WC

	CRITERIA MET YES	NO	NA
HOLDING TIMES	✓		
METHOD BLANK	✓		
CALIBRATION CURVE	✓		
IF NO,			
INITIAL CALIBRATION	✓		
IF NO,			
CONTINUING CALIBRATION	✓		
IF NO,			
MATRIX SPIKE RECOVERIES	✓		
COMMENTS			
OUR RECOVERIES	✓		
LCS RECOVERIES			✓
CALCULATION CHECK	✓		
ADDITIONAL COMMENTS			

SIGNATURE _____ DATE 3-26-09

REVIEWED BY _____ DATE _____

Work Order: 505070 Method: RSK

Volatiles Package Review Checklist

Case Narrative

	Analyst	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.	✓	
2. All nonconformances and corrective action must be mentioned and explained.	✓	
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	
4. If reanalyses were performed, one analysis must be designated to report results.	✓	

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	
2. Double-check spike amounts for the LCS and MS/MSD.	✓	
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	
4. A form 5 for the initial calibration must be provided.	✓	

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	
$\frac{\text{Raw Conc. x (5/mass)}}{1 - (\%\text{moisture}/100)}$ *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	

Work Order: 903071 Method: 8316

3. Column name & ID are properly labeled.	✓	
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{\text{10mL of MeOH}}{\text{grams of soil}} \times \frac{\text{5mL Purge Volume}}{\text{mL of Extract Spiked}}$	✓	
5. All analyte recoveries over the calibration limit are flagged "E".	✓	
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	✓	
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	✓	

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	
2. All continuing calibrations used to analyze the samples are included.	✓	
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	✓	
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	
4. Injection Logbook copies must be provided for all analysis sequences.	✓	
5. If TCLP, a copy of the Extraction Log must be provided.	✓	
6. If Encore samples, a copy of the Sample Weight Log must be provided.	✓	

Analyst Signature: _____ Date: 3/27/09

Reviewer Signature: _____ Date: _____

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-042-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-043-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-044-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-041-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-045-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-046-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-039-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-040-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

Analytical Report For 903093

for

CH2M Hill Inc

Project Manager: Emma Brower

Project Name: CTO-059 386383.FI.FQ.FQ

GPL

Laboratories

GPL Laboratories, LLLP certifies that the test results meet all requirements of the NELAC Standards unless otherwise noted.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Ten water samples were received on 03/14/2009. The samples were delivered by Federal Express. Sample receipt conditions anc temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Ten water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
SampleOU1-16GW06-0309 was diluted to fit the results within the instrument calibration.
All surrogate recoveries and internal standard responses were within the QC limits.
A matrix spike and matrix spike duplicate were shared from work order 903192. The RPDs of three compounds, out of forty-eight were outside of the RPD QC limits, and twenty-seven spike recoveries, out of ninety-six, were outside of the QC limits.
A laboratory control sample was analyzed along with the sample batches. BKS108853 had six spike recoveries outside of the QC limits. BKS108855 had two spike recoveries outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Eight water samples were analyzed for Chloride, Nitrate as Nitrogen, and Nitrite as Nitrogen by EPA method 300.0.

Matrix spike and duplicate analyses were performed on sample OU1-16GW35-0309. Due to matrix interference, percent recovery for Nitrite as Nitrogen was above the QC limits. Since the laboratory control sample recoveries for Nitrite as Nitrogen were within the QC limits, no corrective action was taken. All other QC criteria were met.

A laboratory control sample was analyzed along with the batch. All QC criteria were met.

General Chemistry

Eight water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was shared with GPL workorder 903071. All QC criteria were met.

Eight water samples were analyzed for Total Organic Carbon using EPA method 9060A. No duplicate analysis was performed since samples were ran in quadruplicate. Matrix spike analysis was performed on sample OU1-16GW29-0309. All QC criteria were met.

Other Analysis

Eight water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were shared with work order 903062. All of the RPDs were within the RPD QC limits, and all spike recoveries were within the QC limits.

Reviewed By,

Project Manager

Approved By,

Laboratory Director

GPL Laboratories, LLLP

Sample Summary Report

CH2M Hill Inc

Work Order: 903093

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
OU1-16GW06-0309	903093-004-010-1/3	SW8260LL	WATER	03/13/2009	03/14/2009
	903093-004-053-1/2	GPL-RSK-175			
	903093-004-034-1/1	E300			
	903093-004-042-1/1	E376.1			
	903093-004-066-1/1	SW9060			
OU1-16GW06-0309DL	903093-004-053-1/2DL	GPL-RSK-175	WATER	03/13/2009	03/14/2009
	903093-004-053-1/2DL	SW8260LL			
OU1-16GW28-0309	903093-005-013-1/3	SW8260LL	WATER	03/13/2009	03/14/2009
	903093-005-055-1/2	GPL-RSK-175			
	903093-005-035-1/1	E300			
	903093-005-043-1/1	E376.1			
	903093-005-067-1/1	SW9060			
OU1-16GW28-0309DL	903093-005-055-1/2DL	GPL-RSK-175	WATER	03/13/2009	03/14/2009
OU1-16GW29-0309	903093-006-016-1/3	SW8260LL	WATER	03/13/2009	03/14/2009
	903093-006-057-1/2	GPL-RSK-175			
	903093-006-036-1/1	E300			
	903093-006-044-1/1	E376.1			
	903093-006-068-1/1	SW9060			
OU1-16GW29-0309DL	903093-006-057-1/2DL	GPL-RSK-175	WATER	03/13/2009	03/14/2009
OU1-16GW32-0309	903093-003-007-1/3	SW8260LL	WATER	03/13/2009	03/14/2009
	903093-003-051-1/2	GPL-RSK-175			
	903093-003-033-1/1	E300			
	903093-003-041-1/1	E376.1			
	903093-003-065-1/1	SW9060			
OU1-16GW34-0309	903093-007-019-1/3	SW8260LL	WATER	03/13/2009	03/14/2009
	903093-007-059-1/2	GPL-RSK-175			
	903093-007-037-1/1	E300			
	903093-007-045-1/1	E376.1			
	903093-007-069-1/1	SW9060			
OU1-16GW34-0309DL	903093-007-059-1/2DL	GPL-RSK-175	WATER	03/13/2009	03/14/2009
OU1-16GW35-0309	903093-008-022-1/3	SW8260LL	WATER	03/13/2009	03/14/2009
	903093-008-061-1/2	GPL-RSK-175			

Sample Summary Report

CH2M Hill Inc

Work Order: 903093

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
	903093-008-038-1/1	E300			
	903093-008-046-1/1	E376.1			
	903093-008-070-1/1	SW9060			
OU1-MW38-0309	903093-001-001-1/3	SW8260LL	WATER	03/13/2009	03/14/2009
	903093-001-047-1/2	GPL-RSK-175			
	903093-001-031-1/1	E300			
	903093-001-039-1/1	E376.1			
	903093-001-063-1/1	SW9060			
OU1-MW39-0309	903093-002-004-1/3	SW8260LL	WATER	03/13/2009	03/14/2009
	903093-002-049-1/2	GPL-RSK-175			
	903093-002-032-1/1	E300			
	903093-002-040-1/1	E376.1			
	903093-002-064-1/1	SW9060			
OU1-MW39-0309DL	903093-002-049-1/2DL	GPL-RSK-175	WATER	03/13/2009	03/14/2009
OU1-TB06-0309	903093-009-025-1/3	SW8260LL	WATER	03/13/2009	03/14/2009
OU1-TB07-0309	903093-010-028-1/3	SW8260LL	WATER	03/13/2009	03/14/2009

Client Name:	CH2M Hill Inc	Sample Matrix:	WATER
Client Sample ID:	OU1-TB07-0309	Lab Sample ID:	903093-010-028-1/3
Sample Date/Time:	03/13/2009 17:12	Percent Moisture:	NA
Receipt Date/Time:	03/14/2009 11:07	Preparation Method:	SW5030B
Prepared Date/Time:	03/26/2009 08:27	Analytical Method:	SW8260LL

59) Vinyl Acetate	108-05-4	BQL	U	1.0	1	ug/L	03/26/09	12:53
60) Vinyl Chloride	75-01-4	BQL	U	1.0	1	ug/L	03/26/09	12:53
61) cis-1,2-Dichloroethene	156-59-2	BQL	U	1.0	1	ug/L	03/26/09	12:53
62) cis-1,3-Dichloropropene	10061-01-5	BQL	U	1.0	1	ug/L	03/26/09	12:53
63) m,p-Xylene	136777-61-	BQL	U	1.0	1	ug/L	03/26/09	12:53
64) n-Butylbenzene	104-51-8	BQL	U	1.0	1	ug/L	03/26/09	12:53
65) n-Propylbenzene	103-65-1	BQL	U	1.0	1	ug/L	03/26/09	12:53
66) o-Xylene	95-47-6	BQL	U	1.0	1	ug/L	03/26/09	12:53
67) tert-Butylbenzene	98-06-6	BQL	U	1.0	1	ug/L	03/26/09	12:53
68) tert-butyl methyl ether	1634-04-4	BQL	U	1.0	1	ug/L	03/26/09	12:53
69) trans-1,2-dichloroethene	156-60-5	BQL	U	1.0	1	ug/L	03/26/09	12:53
70) trans-1,3-dichloropropene	10061-02-6	BQL	U	1.0	1	ug/L	03/26/09	12:53

# Surrogate Parameter	CAS	Percent Recovery	Control Limits	Dil Fact	Analysis Date/Time	
71) 1,2-Dichlorobenzene-d4	2199-69-1	117 %	64 - 132	1	03/26/09	12:53
72) 1,2-Dichloroethane-d4	17060-07-0	103 %	70 - 120	1	03/26/09	12:53
73) 4-Bromofluorobenzene	460-00-4	96 %	75 - 120	1	03/26/09	12:53
74) Toluene-D8	2037-26-5	104 %	85 - 120	1	03/26/09	12:53

QC SUMMARY PACKAGE

GPL Laboratories

VOLATILE ORGANICS

GPL Laboratories

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903093**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108853	98	105	107	116
BLK108853	97	104	103	110
OU1-16GW06-0309	93	103	101	113
OU1-16GW28-0309	94	103	103	114
OU1-16GW29-0309	93	106	99	118
OU1-16GW32-0309	95	102	107	114
OU1-16GW34-0309	93	104	106	116
OU1-16GW35-0309	97	104	100	118
OU1-MW38-0309	95	106	103	117
OU1-MW39-0309	95	105	105	114
OU1-TB06-0309	93	102	101	116

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903093**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108855	99	99	104	121
BLK108855	91	106	101	113
OU1-16GW06-0309DL	95	96	88	116
OU1-TB07-0309	96	104	103	117

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108853

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108853
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	56	112	80-130
1,1,1-Trichloroethane	50	0	58	116	65-130
1,1,2,2-Tetrachloroethane	50	0	47	94	65-130
1,1,2-Trichloroethane	50	0	56	112	75-125
1,1-Dichloroethane	50	0	57	114	70-135
1,1-Dichloroethene	50	0	56	112	70-130
1,1-Dichloropropene	50	0	48	96	75-130
1,2,3-Trichlorobenzene	50	0	63	126	55-140
1,2,3-Trichloropropane	50	0	52	104	75-125
1,2,4-Trichlorobenzene	50	0	58	116	65-135
1,2,4-Trimethylbenzene	50	0	51	102	75-130
1,2-Dibromo-3-Chloropropane	50	0	51	102	50-130
1,2-Dichlorobenzene	50	0	56	112	70-120
1,2-Dichloroethane	50	0	50	100	70-130
1,2-Dichloropropane	50	0	45	90	75-125
1,3,5-trimethylbenzene	50	0	50	100	75-130
1,3-Dichlorobenzene	50	0	59	118	75-125
1,3-Dichloropropane	50	0	47	94	75-125
1,4-Dichlorobenzene	50	0	59	118	75-125
2,2-Dichloropropane	50	0	47	94	70-135
2-Butanone	100	0	85	85	30-150
2-Chlorotoluene	50	0	54	108	75-125
2-Hexanone	100	0	86	86	55-130
4-Chlorotoluene	50	0	54	108	75-130
4-Isopropyltoluene	50	0	57	114	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108853

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108853
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	86	86	60-135
Acetone	100	0	83	83	40-140
Benzene	50	0	46	92	80-120
Bromobenzene	50	0	59	118	75-125
Bromochloromethane	50	0	67	134 *	65-130
Bromodichloromethane	50	0	48	96	75-120
Bromoform	50	0	54	108	70-130
Bromomethane	50	0	93	186 *	30-145
Carbon Disulfide	50	0	49	98	35-160
Carbon Tetrachloride	50	0	64	128	65-140
Chlorobenzene	50	0	50	100	80-120
Chloroethane	50	0	79	158 *	60-135
Chloroform	50	0	54	108	65-135
Chloromethane	50	0	46	92	40-125
Cyclohexane	50	0	49	98	50-120
Dibromochloromethane	50	0	53	106	60-135
Dibromomethane	50	0	49	98	75-125
Dichlorodifluoromethane	50	0	45	90	30-155
Ethylbenzene	50	0	46	92	75-125
Ethylene DiBromide	50	0	47	94	80-120
Freon 113	50	0	69	138 *	70-130
Hexachlorobutadiene	50	0	62	124	50-140
Isopropylbenzene	50	0	50	100	75-125
Methyl Acetate	50	0	41	82	50-120
Methylcyclohexane	50	0	53	106	50-120

* Values Outside of QC Limits.

Spike recovery : 4 out of 25 outside limits

SW8260LL

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108853

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108853
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	47	94	55-140
Naphthalene	50	0	60	120	55-140
Sec-Butylbenzene	50	0	51	102	70-125
Styrene	50	0	49	98	65-135
Tetrachloroethylene	50	0	80	160 *	45-150
Toluene	50	0	54	108	75-120
Trichloroethene	50	0	48	96	70-125
Trichlorofluoromethane	50	0	77	154 *	60-145
Vinyl Acetate	50	0	30	60	41-139
Vinyl Chloride	50	0	43	86	50-145
cis-1,2-Dichloroethene	50	0	50	100	70-125
cis-1,3-Dichloropropene	50	0	47	94	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	48	96	70-135
n-Propylbenzene	50	0	48	96	70-130
o-Xylene	50	0	49	98	80-120
tert-Butylbenzene	50	0	55	110	70-130
tert-butyl methyl ether	50	0	59	118	65-125
trans-1,2-dichloroethene	50	0	55	110	60-140
trans-1,3-dichloropropene	50	0	51	102	55-140

* Values Outside of QC Limits.

Spike recovery : 2 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108855

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108855
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	53	106	80-130
1,1,1-Trichloroethane	50	0	55	110	65-130
1,1,2,2-Tetrachloroethane	50	0	42	84	65-130
1,1,2-Trichloroethane	50	0	45	90	75-125
1,1-Dichloroethane	50	0	52	104	70-135
1,1-Dichloroethene	50	0	50	100	70-130
1,1-Dichloropropene	50	0	41	82	75-130
1,2,3-Trichlorobenzene	50	0	56	112	55-140
1,2,3-Trichloropropane	50	0	45	90	75-125
1,2,4-Trichlorobenzene	50	0	56	112	65-135
1,2,4-Trimethylbenzene	50	0	49	98	75-130
1,2-Dibromo-3-Chloropropane	50	0	36	72	50-130
1,2-Dichlorobenzene	50	0	55	110	70-120
1,2-Dichloroethane	50	0	41	82	70-130
1,2-Dichloropropane	50	0	45	90	75-125
1,3,5-trimethylbenzene	50	0	48	96	75-130
1,3-Dichlorobenzene	50	0	57	114	75-125
1,3-Dichloropropane	50	0	43	86	75-125
1,4-Dichlorobenzene	50	0	56	112	75-125
2,2-Dichloropropane	50	0	48	96	70-135
2-Butanone	100	0	65	65	30-150
2-Chlorotoluene	50	0	53	106	75-125
2-Hexanone	100	0	70	70	55-130
4-Chlorotoluene	50	0	53	106	75-130
4-Isopropyltoluene	50	0	56	112	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108855

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108855
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	76	76	60-135
Acetone	100	0	73	73	40-140
Benzene	50	0	39	78 *	80-120
Bromobenzene	50	0	55	110	75-125
Bromochloromethane	50	0	63	126	65-130
Bromodichloromethane	50	0	45	90	75-120
Bromoform	50	0	51	102	70-130
Bromomethane	50	0	130	260 *	30-145
Carbon Disulfide	50	0	44	88	35-160
Carbon Tetrachloride	50	0	58	116	65-140
Chlorobenzene	50	0	48	96	80-120
Chloroethane	50	0	47	94	60-135
Chloroform	50	0	50	100	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	46	92	50-120
Dibromochloromethane	50	0	48	96	60-135
Dibromomethane	50	0	47	94	75-125
Dichlorodifluoromethane	50	0	46	92	30-155
Ethylbenzene	50	0	44	88	75-125
Ethylene DiBromide	50	0	42	84	80-120
Freon 113	50	0	62	124	70-130
Hexachlorobutadiene	50	0	57	114	50-140
Isopropylbenzene	50	0	48	96	75-125
Methyl Acetate	50	0	34	68	50-120
Methylcyclohexane	50	0	58	116	50-120

* Values Outside of QC Limits.

Spike recovery : 2 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108855

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108855
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	44	88	55-140
Naphthalene	50	0	50	100	55-140
Sec-Butylbenzene	50	0	49	98	70-125
Styrene	50	0	46	92	65-135
Tetrachloroethylene	50	0	56	112	45-150
Toluene	50	0	48	96	75-120
Trichloroethene	50	0	44	88	70-125
Trichlorofluoromethane	50	0	50	100	60-145
Vinyl Acetate	50	0	27	54	41-139
Vinyl Chloride	50	0	42	84	50-145
cis-1,2-Dichloroethene	50	0	46	92	70-125
cis-1,3-Dichloropropene	50	0	45	90	70-130
m,p-Xylene	100	0	97	97	75-130
n-Butylbenzene	50	0	46	92	70-135
n-Propylbenzene	50	0	46	92	70-130
o-Xylene	50	0	47	94	80-120
tert-Butylbenzene	50	0	52	104	70-130
tert-butyl methyl ether	50	0	52	104	65-125
trans-1,2-dichloroethene	50	0	50	100	60-140
trans-1,3-dichloropropene	50	0	44	88	55-140

* Values Outside of QC Limits.

Spike recovery : 0 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Lab File ID :	A62541.D	SDG NO :	903093
Date Analyzed	03/25/2009	Lab Sample ID :	BLK108853
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	23:20

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108853	BKS108853	A62539.D	22:40
OU1-16GW06-0309	903093-004-010-1/3	A62553.D	03:21
OU1-16GW28-0309	903093-005-013-1/3	A62555.D	04:02
OU1-16GW29-0309	903093-006-016-1/3	A62557.D	04:42
OU1-16GW32-0309	903093-003-007-1/3	A62551.D	02:41
OU1-16GW34-0309	903093-007-019-1/3	A62559.D	05:23
OU1-16GW35-0309	903093-008-022-1/3	A62561.D	06:03
OU1-MW38-0309	903093-001-001-1/3	A62547.D	01:21
OU1-MW39-0309	903093-002-004-1/3	A62549.D	02:01
OU1-TB06-0309	903093-009-025-1/3	A62563.D	06:44

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Lab File ID :	A62571.D	SDG NO :	903093
Date Analyzed	03/26/2009	Lab Sample ID :	BLK108855
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:13

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108855	BKS108855	A62569.D	10:32
OU1-16GW06-0309DL	903093-004-011-2/3	A62573.D	12:13
OU1-TB07-0309	903093-010-028-1/3	A62575.D	12:53

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903093

Lab File ID: A62535.D BFB Injection Date : 03/25/2009 BFB Injection Time : 21:19

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	20.9	
75	30.0 - 60.0% of mass 95	47.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	1.6	(1.6)1
174	50.0 - 120.0% of mass 95	97.8	
175	5.0 - 9.0% of mass 174	7.7	(7.9)1
176	95.0 - 101.0% of mass 174	96.3	(98.4)1
177	5.0 - 9.0% of mass 176	5.8	(6.0)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62537.D	03/25/2009	22:00
2	BKS108853	BKS108853	A62539.D	03/25/2009	22:40
3	BLK108853	BLK108853	A62541.D	03/25/2009	23:20
4	OU1-MW38-0309	903093-001-001-1/3	A62547.D	03/26/2009	01:21
5	OU1-MW39-0309	903093-002-004-1/3	A62549.D	03/26/2009	02:01
6	OU1-16GW32-0309	903093-003-007-1/3	A62551.D	03/26/2009	02:41
7	OU1-16GW06-0309	903093-004-010-1/3	A62553.D	03/26/2009	03:21
8	OU1-16GW28-0309	903093-005-013-1/3	A62555.D	03/26/2009	04:02
9	OU1-16GW29-0309	903093-006-016-1/3	A62557.D	03/26/2009	04:42
10	OU1-16GW34-0309	903093-007-019-1/3	A62559.D	03/26/2009	05:23
11	OU1-16GW35-0309	903093-008-022-1/3	A62561.D	03/26/2009	06:03
12	OU1-TB06-0309	903093-009-025-1/3	A62563.D	03/26/2009	06:44

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903093

Lab File ID: A62565.D BFB Injection Date : 03/26/2009 BFB Injection Time : 08:27

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.3	
75	30.0 - 60.0% of mass 95	53.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	1.0	(1.1)1
174	50.0 - 120.0% of mass 95	88.0	
175	5.0 - 9.0% of mass 174	7.4	(8.4)1
176	95.0 - 101.0% of mass 174	83.9	(95.3)1
177	5.0 - 9.0% of mass 176	5.7	(6.8)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62567.D	03/26/2009	09:20
2	BKS108855	BKS108855	A62569.D	03/26/2009	10:32
3	BLK108855	BLK108855	A62571.D	03/26/2009	11:13
4	OU1-16GW06-0309DL	903093-004-011-2/3	A62573.D	03/26/2009	12:13
5	OU1-TB07-0309	903093-010-028-1/3	A62575.D	03/26/2009	12:53

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903093

Lab File ID: A62537.D Date Analyzed: 03/25/2009 Time Analyzed: 22:00

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	387636	04.68	450122	07.78	426193	04.55
UPPER LIMIT	775272	05.18	900244	08.28	852386	05.05
LOWER LIMIT	193818	04.18	225061	07.28	213097	04.05
Client Sample						
BKS108853	421034	04.68	471849	07.78	458784	04.55
BLK108853	400418	04.68	437433	07.78	437432	04.55
OU1-16GW06-0309	355981	04.68	380492	07.78	382387	04.55
OU1-16GW28-0309	352372	04.68	380634	07.78	384154	04.55
OU1-16GW29-0309	339401	04.68	374601	07.78	369893	04.55
OU1-16GW32-0309	356528	04.68	385629	07.78	380259	04.55
OU1-16GW34-0309	339026	04.68	366562	07.78	361674	04.55
OU1-16GW35-0309	346398	04.68	372269	07.78	373168	04.55
OU1-MW38-0309	353801	04.68	386143	07.78	389421	04.55
OU1-MW39-0309	365589	04.68	395293	07.78	397338	04.55
OU1-TB06-0309	330360	04.68	353392	07.78	357577	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903093

Lab File ID: A62567.D Date Analyzed: 03/26/2009 Time Analyzed: 09:20

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	362227	04.68	433260	07.79	391514	04.56
UPPER LIMIT	724454	05.18	866520	08.29	783028	05.06
LOWER LIMIT	181114	04.18	216630	07.29	195757	04.06
Client Sample						
BKS108855	439401	04.68	456605	07.78	430569	04.56
BLK108855	334290	04.68	376962	07.78	365167	04.55
OU1-16GW06-0309DL	366916	04.68	368443	07.78	396549	04.56
OU1-TB07-0309	355289	04.68	381807	07.78	373285	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzen

AREA UPPER LIMIT = +100% of internal standard ar
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108853
Sample Volume :	5	Lab File ID :	A62539.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	56	
71-55-6	1,1,1-Trichloroethane	58	
79-34-5	1,1,2,2-Tetrachloroethane	47	
79-00-5	1,1,2-Trichloroethane	56	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	56	
563-58-6	1,1-Dichloropropene	48	
87-61-6	1,2,3-Trichlorobenzene	63	
96-18-4	1,2,3-Trichloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	51	
96-12-8	1,2-Dibromo-3-Chloropropane	51	
95-50-1	1,2-Dichlorobenzene	56	
107-06-2	1,2-Dichloroethane	50	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	50	
541-73-1	1,3-Dichlorobenzene	59	
142-28-9	1,3-Dichloropropane	47	
106-46-7	1,4-Dichlorobenzene	59	
594-20-7	2,2-Dichloropropane	47	
78-93-3	2-Butanone	85	
95-49-8	2-Chlorotoluene	54	
591-78-6	2-Hexanone	86	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	86	
67-64-1	Acetone	83	
71-43-2	Benzene	46	
108-86-1	Bromobenzene	59	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108853
Sample Volume :	5	Lab File ID :	A62539.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	67	
75-27-4	Bromodichloromethane	48	
75-25-2	Bromoform	54	
74-83-9	Bromomethane	93	
75-15-0	Carbon Disulfide	49	
56-23-5	Carbon Tetrachloride	64	
108-90-7	Chlorobenzene	50	
75-00-3	Chloroethane	79	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	49	
124-48-1	Dibromochloromethane	53	
74-95-3	Dibromomethane	49	
75-71-8	Dichlorodifluoromethane	45	
100-41-4	Ethylbenzene	46	
106-93-4	Ethylene DiBromide	47	
76-13-1	Freon 113	69	
87-68-3	Hexachlorobutadiene	62	
98-82-8	Isopropylbenzene	50	
79-20-9	Methyl Acetate	41	
108-87-2	Methylcyclohexane	53	
75-09-2	Methylene Chloride	47	
91-20-3	Naphthalene	60	
135-98-8	Sec-Butylbenzene	51	
100-42-5	Styrene	49	
127-18-4	Tetrachloroethylene	80	
108-88-3	Toluene	54	
79-01-6	Trichloroethene	48	
75-69-4	Trichlorofluoromethane	77	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108853
Sample Volume :	5	Lab File ID :	A62539.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	30	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	50	
10061-01-5	cis-1,3-Dichloropropene	47	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	48	
103-65-1	n-Propylbenzene	48	
95-47-6	o-Xylene	49	
98-06-6	tert-Butylbenzene	55	
1634-04-4	tert-butyl methyl ether	59	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108855
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	53	
71-55-6	1,1,1-Trichloroethane	55	
79-34-5	1,1,2,2-Tetrachloroethane	42	
79-00-5	1,1,2-Trichloroethane	45	
75-34-3	1,1-Dichloroethane	52	
75-35-4	1,1-Dichloroethene	50	
563-58-6	1,1-Dichloropropene	41	
87-61-6	1,2,3-Trichlorobenzene	56	
96-18-4	1,2,3-Trichloropropane	45	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	49	
96-12-8	1,2-Dibromo-3-Chloropropane	36	
95-50-1	1,2-Dichlorobenzene	55	
107-06-2	1,2-Dichloroethane	41	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	48	
541-73-1	1,3-Dichlorobenzene	57	
142-28-9	1,3-Dichloropropane	43	
106-46-7	1,4-Dichlorobenzene	56	
594-20-7	2,2-Dichloropropane	48	
78-93-3	2-Butanone	65	
95-49-8	2-Chlorotoluene	53	
591-78-6	2-Hexanone	70	
106-43-4	4-Chlorotoluene	53	
99-87-6	4-Isopropyltoluene	56	
108-10-1	4-Methyl-2-Pentanone	76	
67-64-1	Acetone	73	
71-43-2	Benzene	39	
108-86-1	Bromobenzene	55	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108855
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	63	
75-27-4	Bromodichloromethane	45	
75-25-2	Bromoform	51	
74-83-9	Bromomethane	130	
75-15-0	Carbon Disulfide	44	
56-23-5	Carbon Tetrachloride	58	
108-90-7	Chlorobenzene	48	
75-00-3	Chloroethane	47	
67-66-3	Chloroform	50	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	46	
124-48-1	Dibromochloromethane	48	
74-95-3	Dibromomethane	47	
75-71-8	Dichlorodifluoromethane	46	
100-41-4	Ethylbenzene	44	
106-93-4	Ethylene DiBromide	42	
76-13-1	Freon 113	62	
87-68-3	Hexachlorobutadiene	57	
98-82-8	Isopropylbenzene	48	
79-20-9	Methyl Acetate	34	
108-87-2	Methylcyclohexane	58	
75-09-2	Methylene Chloride	44	
91-20-3	Naphthalene	50	
135-98-8	Sec-Butylbenzene	49	
100-42-5	Styrene	46	
127-18-4	Tetrachloroethylene	56	
108-88-3	Toluene	48	
79-01-6	Trichloroethene	44	
75-69-4	Trichlorofluoromethane	50	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108855
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	27	
75-01-4	Vinyl Chloride	42	
156-59-2	cis-1,2-Dichloroethene	46	
10061-01-5	cis-1,3-Dichloropropene	45	
136777-61-2	m,p-Xylene	97	
104-51-8	n-Butylbenzene	46	
103-65-1	n-Propylbenzene	46	
95-47-6	o-Xylene	47	
98-06-6	tert-Butylbenzene	52	
1634-04-4	tert-butyl methyl ether	52	
156-60-5	trans-1,2-dichloroethene	50	
10061-02-6	trans-1,3-dichloropropene	44	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108853
Sample Volume :	5	Lab File ID :	A62541.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108853
Sample Volume :	5	Lab File ID :	A62541.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108853
Sample Volume :	5	Lab File ID :	A62541.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108855
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108855
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108855
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-010-1/3
Sample Volume :	5	Lab File ID :	A62553.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	6.5	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-010-1/3
Sample Volume :	5	Lab File ID :	A62553.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	13	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-010-1/3
Sample Volume :	5	Lab File ID :	A62553.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	31	
156-59-2	cis-1,2-Dichloroethene	1800	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	59	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-011-2/3
Sample Volume :	.1	Lab File ID :	A62573.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
563-58-6	1,1-Dichloropropene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
96-12-8	1,2-Dibromo-3-Chloropropane	100	U
95-50-1	1,2-Dichlorobenzene	50	U
107-06-2	1,2-Dichloroethane	50	U
78-87-5	1,2-Dichloropropane	50	U
108-67-8	1,3,5-trimethylbenzene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
142-28-9	1,3-Dichloropropane	50	U
106-46-7	1,4-Dichlorobenzene	50	U
594-20-7	2,2-Dichloropropane	50	U
78-93-3	2-Butanone	250	U
95-49-8	2-Chlorotoluene	50	U
591-78-6	2-Hexanone	250	U
106-43-4	4-Chlorotoluene	50	U
99-87-6	4-Isopropyltoluene	50	U
108-10-1	4-Methyl-2-Pentanone	250	U
67-64-1	Acetone	250	U
71-43-2	Benzene	50	U
108-86-1	Bromobenzene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-011-2/3
Sample Volume :	.1	Lab File ID :	A62573.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	50	U
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
75-15-0	Carbon Disulfide	50	U
56-23-5	Carbon Tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
110-82-7	Cyclohexane	50	U
124-48-1	Dibromochloromethane	50	U
74-95-3	Dibromomethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
100-41-4	Ethylbenzene	50	U
106-93-4	Ethylene DiBromide	50	U
76-13-1	Freon 113	50	U
87-68-3	Hexachlorobutadiene	50	U
98-82-8	Isopropylbenzene	50	U
79-20-9	Methyl Acetate	50	U
108-87-2	Methylcyclohexane	50	U
75-09-2	Methylene Chloride	50	U
91-20-3	Naphthalene	50	U
135-98-8	Sec-Butylbenzene	50	U
100-42-5	Styrene	50	U
127-18-4	Tetrachloroethylene	50	U
108-88-3	Toluene	50	U
79-01-6	Trichloroethene	50	U
75-69-4	Trichlorofluoromethane	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-011-2/3
Sample Volume :	.1	Lab File ID :	A62573.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	50	U
75-01-4	Vinyl Chloride	50	U
156-59-2	cis-1,2-Dichloroethene	540	
10061-01-5	cis-1,3-Dichloropropene	50	U
136777-61-2	m,p-Xylene	50	U
104-51-8	n-Butylbenzene	50	U
103-65-1	n-Propylbenzene	50	U
95-47-6	o-Xylene	50	U
98-06-6	tert-Butylbenzene	50	U
1634-04-4	tert-butyl methyl ether	50	U
156-60-5	trans-1,2-dichloroethene	50	U
10061-02-6	trans-1,3-dichloropropene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-013-1/3
Sample Volume :	5	Lab File ID :	A62555.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-013-1/3
Sample Volume :	5	Lab File ID :	A62555.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	6.4	
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.6	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	32	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093 .
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-013-1/3
Sample Volume :	5	Lab File ID :	A62555.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	29	
156-59-2	cis-1,2-Dichloroethene	180	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	7.7	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-016-1/3
Sample Volume :	5	Lab File ID :	A62557.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	81	
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-016-1/3
Sample Volume :	5	Lab File ID :	A62557.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-016-1/3
Sample Volume :	5	Lab File ID :	A62557.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-007-1/3
Sample Volume :	5	Lab File ID :	A62551.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	71	
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-007-1/3
Sample Volume :	5	Lab File ID :	A62551.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	0.96	J
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-007-1/3
Sample Volume :	5	Lab File ID :	A62551.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	10	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-019-1/3
Sample Volume :	5	Lab File ID :	A62559.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	0.76	J
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.5	
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-019-1/3
Sample Volume :	5	Lab File ID :	A62559.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	34	
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	38	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-019-1/3
Sample Volume :	5	Lab File ID :	A62559.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	17	
156-59-2	cis-1,2-Dichloroethene	110	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	5.3	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-022-1/3
Sample Volume :	5	Lab File ID :	A62561.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-022-1/3
Sample Volume :	5	Lab File ID :	A62561.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

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SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-022-1/3
Sample Volume :	5	Lab File ID :	A62561.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-001-1/3
Sample Volume :	5	Lab File ID :	A62547.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

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ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-001-1/3
Sample Volume :	5	Lab File ID :	A62547.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

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SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-001-1/3
Sample Volume :	5	Lab File ID :	A62547.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.2	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-004-1/3
Sample Volume :	5	Lab File ID :	A62549.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

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ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-004-1/3
Sample Volume :	5	Lab File ID :	A62549.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.7	
75-69-4	Trichlorofluoromethane	1.0	U

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ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-004-1/3
Sample Volume :	5	Lab File ID :	A62549.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	3.8	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	5.0	
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-009-025-1/3
Sample Volume :	5	Lab File ID :	A62563.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-009-025-1/3
Sample Volume :	5	Lab File ID :	A62563.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

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FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-009-025-1/3
Sample Volume :	5	Lab File ID :	A62563.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-010-028-1/3
Sample Volume :	5	Lab File ID :	A62575.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-010-028-1/3
Sample Volume :	5	Lab File ID :	A62575.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-010-028-1/3
Sample Volume :	5	Lab File ID :	A62575.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1-Trichloroethane	50	50	0.0	68	69	136	138	1	25	50-149
1,1,2,2-Tetrachloroethane	50	50	0.0	52	54	104	108	4	25	70-120
1,1,2-Trichloroethane	50	50	0.0	62	62	124	124	0	25	61-146
1,1-Dichloroethane	50	50	0.0	62	64	124	128	3	25	63-135
1,1-Dichloroethene	50	50	0.0	60	68	120	138 *	14	25	59-130
1,2,4-Trichlorobenzene	50	50	0.0	67	72	134 *	144 *	7	25	56-132
1,2-Dibromo-3-Chloropropane	50	50	0.0	47	54	94	108	14	25	20-154
1,2-Dichlorobenzene	50	50	0.0	66	68	132	136 *	3	25	79-133
1,2-Dichloroethane	50	50	0.0	56	55	112	110	2	25	47-158
1,2-Dichloropropane	50	50	0.0	56	60	112	120	7	25	72-133
1,3-Dichlorobenzene	50	50	0.0	69	70	138 *	140 *	1	25	78-130
1,4-Dichlorobenzene	50	50	0.0	68	69	136 *	138 *	1	25	75-134
2-Butanone	100	100	0.0	93	98	93	98	5	25	70-125
2-Hexanone	100	100	0.0	94	96	94	96	2	25	49-150
4-Methyl-2-Pentanone	100	100	0.0	95	99	95	99	4	25	70-120
Acetone	100	100	0.0	88	93	88	93	6	25	56-152
Benzene	50	50	0.0	53	54	106	108	2	25	74-130
Bromodichloromethane	50	50	0.0	58	61	116	122	5	25	57-149

#Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL_FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Bromoform	50	50	0.0	63	64	126	128 *	2	25	62-127
Bromomethane	50	50	0.0	150	100	300 *	200 *	40 *	25	41-140
Carbon Disulfide	50	50	0.0	51	54	102	108	6	25	57-152
Carbon Tetrachloride	50	50	0.0	78	80	156 *	160 *	3	25	48-149
Chlorobenzene	50	50	180	220	250	80	140 *	55 *	25	75-130
Chloroethane	50	50	0.0	120	95	240 *	190 *	23	25	61-140
Chloroform	50	50	0.0	60	62	120	126	5	25	62-131
Chloromethane	50	50	0.0	46	52	92	104	12	25	39-148
Cyclohexane	50	50	0.0	61	63	122 *	126 *	3	25	50-120
Dibromochloromethane	50	50	0.0	59	59	118	118	0	25	55-139
Dichlorodifluoromethane	50	50	18	70	79	104	122 *	16	25	42-114
Ethylbenzene	50	50	0.0	54	53	108	106	2	25	76-139
Ethylene DiBromide	50	50	0.0	52	53	104	106	2	25	57-129
Freon 113	50	50	0.0	84	92	168 *	184 *	9	25	70-120
Isopropylbenzene	50	50	0.0	59	60	118	120	2	25	68-132
Methyl Acetate	50	50	0.0	54	56	108	112	4	25	50-120
Methylcyclohexane	50	50	0.0	78	82	156 *	164 *	5	25	50-120
Methylene Chloride	50	50	4.0	51	59	94	110	16	25	60-126

#Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Styrene	50	50	0.0	55	54	108	108	0	25	45-152
Tetrachloroethylene	50	50	0.0	69	68	138	136	1	25	43-147
Toluene	50	50	0.0	64	64	128	130	2	25	70-133
Total Xylenes	150	150	0.0	170	170	113	113	0	25	70-120
Trichloroethene	50	50	0.0	54	57	106	114	7	25	62-137
Trichlorofluoromethane	50	50	0.0	68	110	136	220 *	47 *	25	27-149
Vinyl Chloride	50	50	0.0	50	49	100	98	2	25	64-158
cis-1,2-Dichloroethene	50	50	1.9	58	60	112	116	4	25	48-144
cis-1,3-Dichloropropene	50	50	0.0	58	58	114	116	2	25	62-126
tert-butyl methyl ether	50	50	0.0	63	67	126	134 *	6	25	50-128
trans-1,2-dichloroethene	50	50	3.7	62	69	117	131 *	11	25	64-125
trans-1,3-dichloropropene	50	50	0.0	61	61	120	122 *	2	25	65-121

#column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MS
Sample Volume :	5	Lab File ID :	A62587.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	68	
79-34-5	1,1,2,2-Tetrachloroethane	52	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	62	
75-35-4	1,1-Dichloroethene	60	
120-82-1	1,2,4-Trichlorobenzene	67	
96-12-8	1,2-Dibromo-3-Chloropropane	47	
95-50-1	1,2-Dichlorobenzene	66	
107-06-2	1,2-Dichloroethane	56	
78-87-5	1,2-Dichloropropane	56	
541-73-1	1,3-Dichlorobenzene	69	
106-46-7	1,4-Dichlorobenzene	68	
78-93-3	2-Butanone	93	
591-78-6	2-Hexanone	94	
108-10-1	4-Methyl-2-Pentanone	95	
67-64-1	Acetone	88	
71-43-2	Benzene	53	
75-27-4	Bromodichloromethane	58	
75-25-2	Bromoform	62	
74-83-9	Bromomethane	150	
75-15-0	Carbon Disulfide	51	
56-23-5	Carbon Tetrachloride	78	
108-90-7	Chlorobenzene	220	E
75-00-3	Chloroethane	120	
67-66-3	Chloroform	60	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	61	
124-48-1	Dibromochloromethane	59	
75-71-8	Dichlorodifluoromethane	70	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MS
Sample Volume :	5	Lab File ID :	A62587.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	54	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	84	
98-82-8	Isopropylbenzene	59	
79-20-9	Methyl Acetate	54	
108-87-2	Methylcyclohexane	78	
75-09-2	Methylene Chloride	51	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	69	
108-88-3	Toluene	64	
1330-20-7	Total Xylenes	170	
79-01-6	Trichloroethene	53	
75-69-4	Trichlorofluoromethane	68	
75-01-4	Vinyl Chloride	50	
156-59-2	cis-1,2-Dichloroethene	58	
10061-01-5	cis-1,3-Dichloropropene	57	
1634-04-4	tert-butyl methyl ether	63	
156-60-5	trans-1,2-dichloroethene	62	
10061-02-6	trans-1,3-dichloropropene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MSD
Sample Volume :	5	Lab File ID :	A62589.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	69	
79-34-5	1,1,2,2-Tetrachloroethane	54	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	64	
75-35-4	1,1-Dichloroethene	68	
120-82-1	1,2,4-Trichlorobenzene	72	
96-12-8	1,2-Dibromo-3-Chloropropane	54	
95-50-1	1,2-Dichlorobenzene	68	
107-06-2	1,2-Dichloroethane	55	
78-87-5	1,2-Dichloropropane	60	
541-73-1	1,3-Dichlorobenzene	70	
106-46-7	1,4-Dichlorobenzene	69	
78-93-3	2-Butanone	98	
591-78-6	2-Hexanone	96	
108-10-1	4-Methyl-2-Pentanone	99	
67-64-1	Acetone	93	
71-43-2	Benzene	54	
75-27-4	Bromodichloromethane	61	
75-25-2	Bromoform	64	
74-83-9	Bromomethane	100	
75-15-0	Carbon Disulfide	54	
56-23-5	Carbon Tetrachloride	80	
108-90-7	Chlorobenzene	250	E
75-00-3	Chloroethane	95	
67-66-3	Chloroform	62	
74-87-3	Chloromethane	52	
110-82-7	Cyclohexane	63	
124-48-1	Dibromochloromethane	59	
75-71-8	Dichlorodifluoromethane	79	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MSD
Sample Volume :	5	Lab File ID :	A62589.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	53	
106-93-4	Ethylene DiBromide	53	
76-13-1	Freon 113	92	
98-82-8	Isopropylbenzene	60	
79-20-9	Methyl Acetate	56	
108-87-2	Methylcyclohexane	82	
75-09-2	Methylene Chloride	59	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	68	
108-88-3	Toluene	64	
1330-20-7	Total Xylenes	170	
79-01-6	Trichloroethene	57	
75-69-4	Trichlorofluoromethane	110	
75-01-4	Vinyl Chloride	49	
156-59-2	cis-1,2-Dichloroethene	60	
10061-01-5	cis-1,3-Dichloropropene	58	
1634-04-4	tert-butyl methyl ether	67	
156-60-5	trans-1,2-dichloroethene	69	
10061-02-6	trans-1,3-dichloropropene	61	

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	76	0.00
2		Dichlorodifluoromethane	0.089	0.079	11.2	61	0.00
3		Chloromethane	0.174	0.145	16.7	76	0.00
4		Vinyl chloride	0.207	0.176	15.0	63	0.00
5		Bromomethane	0.115	0.358	-211.3#	346#	0.00
6		Chloroethane	0.145	0.129	11.0	69	0.00
7		Trichlorofluoromethane	0.256	0.299	-16.8	78	0.00
8		Ethyl Ether	0.178	0.162	9.0	65	0.00
9		Freon 113	0.158	0.191	-20.9#	87	0.00
10		Acrolein	0.036	0.027	25.0#	57	0.00
11		Tert-Butyl alcohol	0.020	0.017	15.0	49#	0.00
12		1,1-Dichloroethene	0.182	0.185	-1.6	74	0.00
13		Iodomethane	0.211	0.324	-53.6#	269#	0.00
14		Acetonitrile	0.108	0.161	-49.1#	98	0.00
15		Methylene chloride	0.252	0.220	12.7	74	0.00
16		Trans-1,2-dichloroethene	0.209	0.219	-4.8	75	0.00
17		Isopropyl ether	0.812	0.775	4.6	67	0.00
18		1,1-Dichloroethane	0.374	0.404	-8.0	74	0.00
19		Acetone	0.095	0.063	33.7#	53	0.00
20		Methyl Acetate	0.186	0.176	5.4	52	0.00
21		MTBE	0.545	0.569	-4.4	71	0.00
22		Carbon disulfide	0.679	0.573	15.6	71	0.00
23		Allyl Chloride	0.000	0.000	0.0	93	0.00
24		Acrylonitrile	0.063	0.054	14.3	61	0.00
25		Chloroprene	0.357	0.328	8.1	70	0.00
26	T	n-Heptane	0.183	0.008	95.6#	3#	0.12
27		2,2-Dichloropropane	0.313	0.301	3.8	68	0.00
28		Cis-1,2-dichloroethene	0.253	0.250	1.2	75	0.00
29		1,2-dichloroethene(total)	0.268	0.241	10.1	75	0.00
30		Propionitrile	0.031	0.027	12.9	58	0.00
31		Bromochloromethane	0.109	0.137	-25.7#	88	0.00
32		Tetrahydrofuran	0.051	0.047	7.8	64	0.00
33		Chloroform	0.426	0.444	-4.2	84	0.00
34		Cyclohexane	0.392	0.349	11.0	74	0.00
35		1,1,1-Trichloroethane	0.318	0.363	-14.2	82	0.00
36		Carbon tetrachloride	0.272	0.329	-21.0#	86	0.00
37		Methacrylonitrile	0.170	0.163	4.1	71	0.00
38		Methylcyclohexane	0.338	0.339	-0.3	77	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	42#	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.282	-6.0	81	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
42		2-Butanone	0.163	0.119	27.0#	55	0.00
43		1,1-Dichloropropene	0.339	0.306	9.7	71	0.00
44		Vinyl Acetate	0.381	0.237	37.8#	51	0.00
45		Benzene	1.058	0.964	8.9	74	0.00
46		1,2-Dichloroethane	0.332	0.309	6.9	74	0.00
47		Trichloroethene	0.272	0.246	9.6	76	0.00
48		1,2-Dichloropropane	0.271	0.242	10.7	69	0.00
49		Methyl methacrylate	0.196	0.142	27.6#	61	0.00
50		Dibromomethane	0.167	0.155	7.2	75	0.00
51		Bromodichloromethane	0.354	0.368	-4.0	84	0.00
52		2-Chloroethylvinyl ether	0.108	0.045	58.3#	23#	0.00
53		Cis-1,3-dichloropropene	0.427	0.421	1.4	77	0.00
54	SS	Toluene-d8	1.159	1.276	-10.1	94	0.00
55		Toluene	0.694	0.765	-10.2	89	0.00
56		Trans-1,3-dichloropropene	0.387	0.368	4.9	73	0.00
57		Ethyl methacrylate	0.347	0.334	3.7	78	0.00
58		1,1,2-Trichloroethane	0.208	0.218	-4.8	85	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00
60		4-Methyl-2-pentanone	0.292	0.214	26.7#	72	0.00
61		2-Hexanone	0.210	0.149	29.0#	68	0.00
62		Tetrachloroethene	0.288	0.334	-16.0	118	0.00
63		1,3-Dichloropropane	0.416	0.360	13.5	86	0.00
64		Dibromochloromethane	0.301	0.290	3.7	97	0.00
65		1,2-Dibromoethane	0.257	0.218	15.2	87	0.00
66		1-Chlorohexane	0.432	0.347	19.7	86	0.00
67		Chlorobenzene	0.848	0.827	2.5	99	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.324	-6.6	107	0.00
69		Ethylbenzene	1.451	1.293	10.9	93	0.00
70		m,p-Xylene	0.570	0.575	-0.9	100	0.00
71		o-Xylene	0.578	0.541	6.4	97	0.00
72		Xylene (Total)	0.586	0.565	3.6	100	0.00
73		Styrene	0.960	0.910	5.2	96	0.00
74		Bromoform	0.187	0.190	-1.6	97	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.222	0.5	102	0.00
76	SS	4-Bromofluorobenzene	0.471	0.469	0.4	106	0.00
77		Bromobenzene	0.336	0.388	-15.5	118	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.275	16.7	83	0.00
79		1,2,3-Trichloropropane	0.098	0.094	4.1	97	0.00
80		n-Propylbenzene	1.700	1.597	6.1	96	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.052	37.3#	52	0.00
82		2-Chlorotoluene	0.361	0.384	-6.4	108	0.00
83		4-Chlorotoluene	0.374	0.404	-8.0	112	0.00
84		1,3,5-Trimethylbenzene	1.207	1.195	1.0	101	0.00
85		Tert-butylbenzene	1.049	1.109	-5.7	107	0.00
86		Pentachloroethane	0.000	0.000	0.0	111	0.00
87		1,2,4-Trimethylbenzene	1.254	1.259	-0.4	103	0.00
88		Sec-Butylbenzene	1.607	1.613	-0.4	101	0.00
89		1,3-Dichlorobenzene	0.706	0.821	-16.3	120	0.00
90		4-Isopropyltoluene	1.367	1.534	-12.2	110	0.00
91		1,4-Dichlorobenzene	0.708	0.821	-16.0	118	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.548	-18.6	127	0.00
93		1,2-Dichlorobenzene	0.674	0.758	-12.5	119	0.00
94		n-Butylbenzene	1.349	1.241	8.0	96	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.043	24.6#	75	0.00
96		1,2,4-Trichlorobenzene	0.409	0.447	-9.3	116	0.00
97		Hexachlorobutadiene	0.190	0.218	-14.7	119	0.00
98		Naphthalene	0.975	0.919	5.7	90	0.00
99		1,2,3-Trichlorobenzene	0.342	0.375	-9.6	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : General Physics Corp.

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903020

Lab File ID: A62205.D BFB Injection Date : 03/10/2009 BFB Injection Time : 07:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.6	(.8)1
174	50.0 - 120.0% of mass 95	79.6	
175	5.0 - 9.0% of mass 174	5.9	(7.4)1
176	95.0 - 101.0% of mass 174	77.5	(97.3)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL01	CAL01	A62207.D	03/10/2009	08:49
2	CAL05	CAL05	A62209.D	03/10/2009	09:30
3	CAL20	CAL20	A62211.D	03/10/2009	11:03
4	CAL50	CAL50	A62213.D	03/10/2009	11:44
5	CAL100	CAL100	A62215.D	03/10/2009	12:49
6	CAL200	CAL200	A62219.D	03/10/2009	14:22
7	BLK108667	BLK108667	A62221.D	03/10/2009	15:35
8	BKS108667	BKS108667	A62223.D	03/10/2009	16:25
9	TB-030409	903020-001-001-1/2	A62225.D	03/10/2009	17:06
10	EFFg-030409	903020-004-003-1/3	A62227.D	03/10/2009	17:46
11	ACU2-030409	903020-005-006-1/3	A62229.D	03/10/2009	18:27
12	ACU1-030409	903020-006-009-1/3	A62231.D	03/10/2009	19:08

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 08:06:42 2009
Response Via : Initial Calibration

Calibration Files
1 =A62207.D 5 =A62209.D 20 =A62211.D 50 =A62213.D 100 =A62215.D
200 =A62219.D

		Compound	1	5	20	50	100	200	Avg	%R SD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluo...	0.067	0.085	0.103	0.098		0.090	0.089	15.40
3)		Chloromethane	0.188	0.181	0.173	0.145	0.159	0.199	0.174	11.27
4)		Vinyl chloride	0.220	0.190	0.192	0.211	0.214	0.214	0.207	6.19
5)		Bromomethane	0.218	0.069	0.099	0.078	0.114		0.115	~~51.80~~ r^2=0.9[illegible]
6)		Chloroethane		0.144	0.142	0.142	0.141	0.157	0.145	4.69
7)		Trichlorofluor...	0.154	0.245	0.282	0.290	0.307		0.256	~~23.94~~ r^2=0.999
8)		Ethyl Ether	0.163	0.157	0.165	0.189	0.188	0.206	0.178	10.84
9)		Freon 113	0.153	0.135	0.174	0.165		0.165	0.158	9.58
10)		Acrolein		0.037	0.031	0.036	0.035	0.040	0.036	9.22
11)		Tert-Butyl alc...	0.016	0.021	0.018	0.026	0.021		0.020	18.36
12)		1,1-Dichloroet...	0.177	0.162	0.167	0.188	0.193	0.202	0.182	8.55
13)		Iodomethane	0.457	0.111	0.200	0.091	0.247	0.161	0.211	63.20
14)		Acetonitrile	0.079	0.075	0.093	0.124	0.139	0.138	0.108	~~26.99~~ r^2=0.999
15)		Methylene chlo...	0.375	0.222	0.213	0.224	0.235	0.243	0.252	~~24.26~~ r^2=0.999
16)		Trans-1,2-dich...	0.209	0.186	0.197	0.221	0.230		0.209	8.57
17)		Isopropyl ether	0.794	0.717	0.779	0.874	0.894		0.812	8.93
18)		1,1-Dichloroet...	0.325	0.334	0.368	0.411	0.431		0.374	12.44
19)		Acetone	0.151	0.086	0.070	0.091	0.084	0.086	0.095	~~30.23~~ r^2=0.999
20)		Methyl Acetate	0.225	0.217	0.185	0.256		0.048	0.186	~~43.60~~ r^2=0.973
21)		MTBE	0.473	0.510	0.527	0.610	0.604		0.545	11.02
22)		Carbon disulfide	1.024	0.568	0.589	0.610	0.643	0.638	0.679	~~25.30~~ r^2=0.999
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile		0.059	0.058	0.067	0.062	0.071	0.063	8.81
25)		Chloroprene	0.352	0.318	0.337	0.354	0.398	0.383	0.357	8.23
26)	T	n-Heptane	0.229	0.156	0.188	0.173	0.184	0.166	0.183	14.14
27)		2,2-Dichloropr...	0.284	0.268		0.334	0.340	0.338	0.313	10.86
28)		Cis-1,2-dichlo...	0.280	0.214		0.253	0.263	0.256	0.253	9.47
29)		1,2-dichloroet...	0.366		0.223	0.242	0.248	0.260	0.268	21.04
30)		Propionitrile	0.028	0.029	0.028	0.035	0.031	0.036	0.031	11.14
31)		Bromochloromet...	0.088	0.091	0.107	0.119	0.122	0.129	0.109	15.51
32)		Tetrahydrofuran	0.047	0.049	0.049	0.055	0.049	0.059	0.051	9.52
33)		Chloroform	0.515	0.347	0.353	0.399	0.446	0.498	0.426	16.82
34)		Cyclohexane	0.560	0.302	0.371	0.358	0.395	0.363	0.392	~~22.47~~ r^2=0.998
35)		1,1,1-Trichlor...	0.289	0.274	0.307	0.333	0.343	0.363	0.318	10.68
36)		Carbon tetrach...	0.218	0.240	0.265	0.290	0.310	0.313	0.272	14.18
37)		Methacrylonitrile	0.141		0.144	0.175	0.176	0.213	0.170	17.12
38)		Methylcyclohexane	0.360	0.292	0.354	0.333	0.373	0.318	0.338	8.82
39)		Isobutyl Alcohol	0.011	0.014	0.017	0.016		0.015	0.015	15.42
40)	SS	1,2-Dichloroet...	0.258	0.262	0.263	0.265	0.265	0.282	0.266	3.13
41)		1,4-Difluorobenzene	----------ISTD----------							
42)		2-Butanone	0.150	0.152	0.146	0.185	0.166	0.178	0.163	9.84

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

43)		1,1-Dichloropr...	0.270	0.305	0.331	0.370	0.377	0.381	0.339	13.34
44)		Vinyl Acetate	0.369	0.357		0.401	0.394	0.386	0.381	4.81
45)		Benzene	0.924	0.932	1.027	1.118	1.156	1.192	1.058	10.86
46)		1,2-Dichloroet...	0.277	0.295	0.324	0.359	0.360	0.376	0.332	12.02
47)		Trichloroethene	0.269	0.243	0.263	0.278	0.289	0.289	0.272	6.46
48)		1,2-Dichloropr...	0.226	0.230	0.263	0.298	0.305	0.305	0.271	13.65
49)		Methyl methacr...	0.215	0.205	0.171	0.201	0.185	0.202	0.196	8.01
50)		Dibromomethane	0.171	0.151	0.147	0.176	0.172	0.184	0.167	8.78
51)		Bromodichlorom...	0.338	0.315	0.334	0.376	0.376	0.385	0.354	8.07
52)		2-Chloroethylv...	0.027	0.143	0.149	0.165	0.057	0.106	0.108	51.45
53)		Cis-1,3-dichlo...	0.340	0.361		0.469	0.471	0.491	0.427	16.46
54)	SS	Toluene-d8	1.125	1.133	1.141	1.158	1.177	1.218	1.159	2.99
55)		Toluene	0.589	0.599	0.664	0.740	0.763	0.807	0.694	13.02
56)		Trans-1,3-dich...	0.273	0.355		0.433	0.417	0.455	0.387	18.95
57)		Ethyl methacry...	0.347	0.304	0.324	0.365	0.358	0.385	0.347	8.47
58)		1,1,2-Trichlor...	0.183	0.186		0.220	0.217	0.234	0.208	10.71
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)		4-Methyl-2-pen...	0.272	0.284	0.284	0.321	0.289	0.300	0.292	5.85
61)		2-Hexanone	0.175	0.219	0.196	0.238	0.214	0.220	0.210	10.29
62)		Tetrachloroethene	0.228	0.256	0.285	0.305	0.324	0.332	0.288	13.99
63)		1,3-Dichloropr...	0.361	0.399	0.395	0.451	0.441	0.448	0.416	8.74
64)		Dibromochlorom...	0.245	0.291	0.291	0.322	0.324	0.334	0.301	10.93
65)		1,2-Dibromoethane	0.246	0.242	0.248	0.270	0.266	0.271	0.257	5.13
66)		1-Chlorohexane	0.470	0.400	0.409	0.437	0.441	0.437	0.432	5.79
67)		Chlorobenzene	0.748	0.753	0.821	0.906	0.935	0.925	0.848	10.10
68)		1,1,1,2-Tetrac...	0.248	0.259	0.292	0.328	0.342	0.354	0.304	14.65
69)		Ethylbenzene	1.318	1.300	1.394	1.507	1.582	1.607	1.451	9.15
70)		m,p-Xylene	0.510	0.513	0.560	0.618	0.648		0.570	10.86
71)		o-Xylene	0.551	0.505	0.566	0.601	0.624	0.620	0.578	7.95
72)		Xylene (Total)	0.524	0.511	0.564	0.613	0.641	0.662	0.586	10.68
73)		Styrene	0.827	0.857	0.930	1.024	1.062	1.060	0.960	10.80
74)		Bromoform	0.149	0.175	0.176	0.212	0.200	0.209	0.187	13.15
75)		Isopropylbenzene	1.052	1.108	1.196	1.299	1.367	1.346	1.228	10.60
76)	SS	4-Bromofluorob...	0.468	0.466	0.474	0.477	0.477	0.465	0.471	1.16
77)		Bromobenzene	0.300	0.296	0.326	0.356	0.370	0.370	0.336	10.07
78)		1,1,2,2-Tetrac...	0.317	0.314	0.308	0.356	0.339	0.347	0.330	6.00
79)		1,2,3-Trichlor...	0.091	0.103	0.091	0.105	0.098	0.101	0.098	6.04
80)		n-Propylbenzene	1.522	1.538	1.655	1.792	1.853	1.840	1.700	8.79
81)		Trans-1,4-dich...	0.066	0.099	0.064	0.109	0.074	0.088	0.083	~~21.93~~
82)		2-Chlorotoluene	0.338	0.323	0.352	0.384	0.388	0.378	0.361	7.43
83)		4-Chlorotoluene	0.354	0.335	0.356	0.391	0.407	0.403	0.374	7.96
84)		1,3,5-Trimethy...	1.021	1.048	1.163	1.281	1.369	1.359	1.207	12.65
85)		Tert-butylbenzene	0.855	0.919	1.011	1.122	1.196	1.189	1.049	13.66
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.051	1.091	1.184	1.318	1.418	1.460	1.254	13.63
88)		Sec-Butylbenzene	1.363	1.379	1.554	1.726	1.836	1.785	1.607	12.83
89)		1,3-Dichlorobe...	0.581	0.583	0.663	0.740	0.804	0.864	0.706	16.56
90)		4-Isopropyltol...	1.162	1.185	1.338	1.507	1.641		1.367	15.11
91)		1,4-Dichlorobe...	0.581	0.624	0.679	0.749	0.800	0.815	0.708	13.52
92)	SS	1,2-Dichlorobe...	0.439	0.440	0.457	0.465	0.487	0.486	0.462	4.56
93)		1,2-Dichlorobe...	0.614	0.556		0.688	0.756	0.756	0.674	13.10
94)		n-Butylbenzene	1.300	1.191	1.253	1.396	1.500	1.454	1.349	8.94
95)		1,2-Dibromo-3-...	0.051	0.056	0.051	0.062	0.057	0.063	0.057	9.21
96)		1,2,4-Trichlor...	0.405	0.335	0.363	0.417	0.452	0.481	0.409	13.24

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

97)	Hexachlorobuta...	0.192	0.145	0.170	0.197	0.215	0.224	0.190	15.45
98)	Naphthalene	0.824	0.898	0.877	1.102	1.033	1.113	0.975	12.73
99)	1,2,3-Trichlor...	0.323	0.289	0.308	0.362	0.371	0.400	0.342	12.35

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:13:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	82	0.00
2		Dichlorodifluoromethane	0.089	0.090	-1.1	76	0.00
3		Chloromethane	0.174	0.169	2.9	96	0.00
4		Vinyl chloride	0.207	0.181	12.6	71	0.00
5		Bromomethane	0.115	0.336	-192.2#	354#	0.00
6		Chloroethane	0.145	0.298	-105.5#	172#	-0.01
7		Trichlorofluoromethane	0.256	0.351	-37.1#	100	-0.01
8		Ethyl Ether	0.178	0.184	-3.4	80	0.00
9		Freon 113	0.158	0.183	-15.8	92	-0.01
10		Acrolein	0.036	0.030	16.7	69	0.00
11		Tert-Butyl alcohol	0.020	0.024	-20.0	76	0.00
12		1,1-Dichloroethene	0.182	0.187	-2.7	82	-0.01
13		Iodomethane	0.211	0.178	15.6	161#	0.00
14		Acetonitrile	0.108	0.161	-49.1#	107	0.00
15		Methylene chloride	0.252	0.226	10.3	83	0.00
16		Trans-1,2-dichloroethene	0.209	0.225	-7.7	84	0.00
17		Isopropyl ether	0.812	0.798	1.7	75	0.00
18		1,1-Dichloroethane	0.374	0.401	-7.2	80	0.00
19		Acetone	0.095	0.075	21.1#	68	0.00
20		Methyl Acetate	0.186	0.256	-37.6#	82	0.00
21		MTBE	0.545	0.640	-17.4	86	0.00
22		Carbon disulfide	0.679	0.563	17.1	76	-0.01
23		Allyl Chloride	0.000	0.000	0.0	103	0.00
24		Acrylonitrile	0.063	0.065	-3.2	80	0.00
25		Chloroprene	0.357	0.349	2.2	81	0.00
26	T	n-Heptane	0.183	0.007	96.2#	3#	0.11
27		2,2-Dichloropropane	0.313	0.270	13.7	67	0.00
28		Cis-1,2-dichloroethene	0.253	0.246	2.8	80	0.00
29		1,2-dichloroethene(total)	0.268	0.246	8.2	84	0.00
30		Propionitrile	0.031	0.031	0.0	73	0.00
31		Bromochloromethane	0.109	0.138	-26.6#	96	0.00
32		Tetrahydrofuran	0.051	0.054	-5.9	80	0.00
33		Chloroform	0.426	0.458	-7.5	95	0.00
34		Cyclohexane	0.392	0.353	9.9	81	0.00
35		1,1,1-Trichloroethane	0.318	0.366	-15.1	91	0.00
36		Carbon tetrachloride	0.272	0.339	-24.6#	96	0.00
37		Methacrylonitrile	0.170	0.191	-12.4	90	0.00
38		Methylcyclohexane	0.338	0.333	1.5	82	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:13:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.013	13.3	66	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.287	-7.9	89	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
42		2-Butanone	0.163	0.152	6.7	75	0.00
43		1,1-Dichloropropene	0.339	0.319	5.9	79	0.00
44		Vinyl Acetate	0.381	0.256	32.8#	58	0.00
45		Benzene	1.058	1.014	4.2	83	0.00
46		1,2-Dichloroethane	0.332	0.326	1.8	83	0.00
47		Trichloroethene	0.272	0.246	9.6	81	0.00
48		1,2-Dichloropropane	0.271	0.258	4.8	79	0.00
49		Methyl methacrylate	0.196	0.170	13.3	78	0.00
50		Dibromomethane	0.167	0.169	-1.2	88	0.00
51		Bromodichloromethane	0.354	0.334	5.6	81	0.00
52		2-Chloroethylvinyl ether	0.108	0.172	-59.3#	95	0.00
53		Cis-1,3-dichloropropene	0.427	0.446	-4.4	87	0.00
54	SS	Toluene-d8	1.159	1.258	-8.5	100	0.00
55		Toluene	0.694	0.780	-12.4	97	0.00
56		Trans-1,3-dichloropropene	0.387	0.406	-4.9	86	0.00
57		Ethyl methacrylate	0.347	0.372	-7.2	93	0.00
58		1,1,2-Trichloroethane	0.208	0.239	-14.9	100	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
60		4-Methyl-2-pentanone	0.292	0.260	11.0	91	0.00
61		2-Hexanone	0.210	0.188	10.5	88	0.00
62		Tetrachloroethene	0.288	0.415	-44.1#	153#	0.00
63		1,3-Dichloropropane	0.416	0.395	5.0	98	0.00
64		Dibromochloromethane	0.301	0.315	-4.7	110	0.00
65		1,2-Dibromoethane	0.257	0.251	2.3	104	0.00
66		1-Chlorohexane	0.432	0.362	16.2	93	0.00
67		Chlorobenzene	0.848	0.876	-3.3	108	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.346	-13.8	118	0.00
69		Ethylbenzene	1.451	1.382	4.8	103	0.00
70		m,p-Xylene	0.570	0.586	-2.8	106	0.00
71		o-Xylene	0.578	0.556	3.8	104	0.00
72		Xylene (Total)	0.586	0.577	1.5	106	0.00
73		Styrene	0.960	0.961	-0.1	105	0.00
74		Bromoform	0.187	0.217	-16.0	115	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:13:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.250	-1.8	108	0.00
76	SS	4-Bromofluorobenzene	0.471	0.473	-0.4	111	0.00
77		Bromobenzene	0.336	0.403	-19.9	127	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.333	-0.9	105	0.00
79		1,2,3-Trichloropropane	0.098	0.105	-7.1	112	0.00
80		n-Propylbenzene	1.700	1.643	3.4	103	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.093	-12.0	96	0.00
82		2-Chlorotoluene	0.361	0.405	-12.2	118	0.00
83		4-Chlorotoluene	0.374	0.416	-11.2	119	0.00
84		1,3,5-Trimethylbenzene	1.207	1.243	-3.0	109	0.00
85		Tert-butylbenzene	1.049	1.163	-10.9	116	0.00
86		Pentachloroethane	0.000	0.000	0.0	85	0.00
87		1,2,4-Trimethylbenzene	1.254	1.302	-3.8	111	0.00
88		Sec-Butylbenzene	1.607	1.695	-5.5	110	0.00
89		1,3-Dichlorobenzene	0.706	0.864	-22.4#	131	0.00
90		4-Isopropyltoluene	1.367	1.578	-15.4	117	0.00
91		1,4-Dichlorobenzene	0.708	0.861	-21.6#	129	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.559	-21.0#	135	0.00
93		1,2-Dichlorobenzene	0.674	0.808	-19.9	132	0.00
94		n-Butylbenzene	1.349	1.307	3.1	105	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.056	1.8	102	0.00
96		1,2,4-Trichlorobenzene	0.409	0.478	-16.9	128	0.00
97		Hexachlorobutadiene	0.190	0.230	-21.1#	131	0.00
98		Naphthalene	0.975	1.170	-20.0	119	0.00
99		1,2,3-Trichlorobenzene	0.342	0.428	-25.1#	133	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-034-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.4	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-035-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.8	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-036-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	15	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-033-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	
14797-55-8	Nitrate	0.26	
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-037-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-037-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	10
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	29	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-038-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	0.10	
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-038-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	19	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-038-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	1.0	
7727-37-9	Nitrite	1.3	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-038-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	30	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-031-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	12	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-032-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	12	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

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CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.63 min	1.00 min	
Chloride	6.40 min	1.00 min	
Nitrite-N	8.27 min	1.00 min	
Bromide	11.13 min	1.00 min	
Nitrate-N	13.37 min	1.00 min	
Phosphate-P	16.77 min	1.00 min	
Sulfate	18.97 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.63 min	0	0
Chloride	6.40 min	0	0
Nitrite-N	8.27 min	0	0
Bromide	11.13 min	0	0
Nitrate-N	13.37 min	0	0
Phosphate-P	16.77 min	0	0
Sulfate	18.97 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.63 min	Linear	Ignore	Area		0.00
Chloride	6.40 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.27 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.13 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	13.37 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.77 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.97 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	4957.2
2	0.10	109547
3	0.25	277132
4	0.50	557311
5	1.00	1.24129e+006
6	2.50	3.20076e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.40 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	77115.9
3	0.25	197410
4	0.50	408470
5	1.00	836176
6	2.50	2.12844e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.27 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	13027
2	0.10	159558
3	0.25	359105
4	0.50	820570
5	1.00	1.74342e+006
6	2.50	4.38464e+006

CD20 Component = Bromide Levels Table

Retention Time : 11.13 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	38326.6
3	0.25	88554.3
4	0.50	165498
5	1.00	356395
6	2.50	912041

CD20 Component = Nitrate-N Levels Table

Retention Time : 13.37 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	205502
3	0.25	506529
4	0.50	970676
5	1.00	2.16507e+006
6	2.50	6.05721e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7303.4
2	0.10	67439.6
3	0.25	165945
4	0.50	353067
5	1.00	734622
6	2.50	1.93771e+006

CD20 Component = Sulfate Levels Table

Retention Time : 18.97 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	53956.6
3	0.25	139751
4	0.50	274835
5	1.00	612643
6	2.50	1.52046e+006

CD20 XY Data Parameters

Calibration Update Report

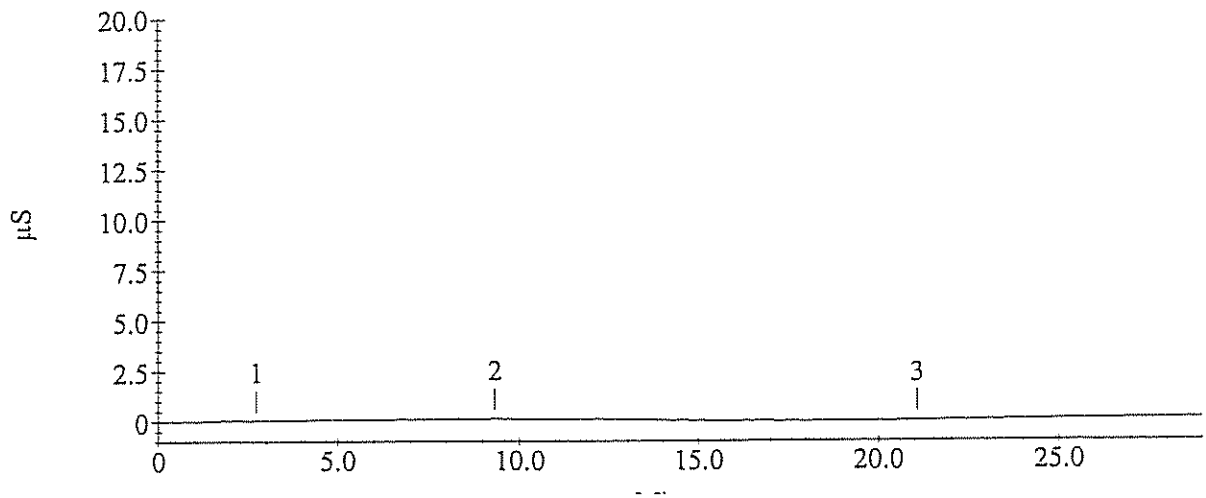
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\080917\080917__003.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:21:51 PM
Calibration Date : 9/18/08 10:53:59 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride Chloride	2.73	12030	4957	4957
2	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	9.33	10214	13027	13027

STD 1 - BLK



Calibration Update Report

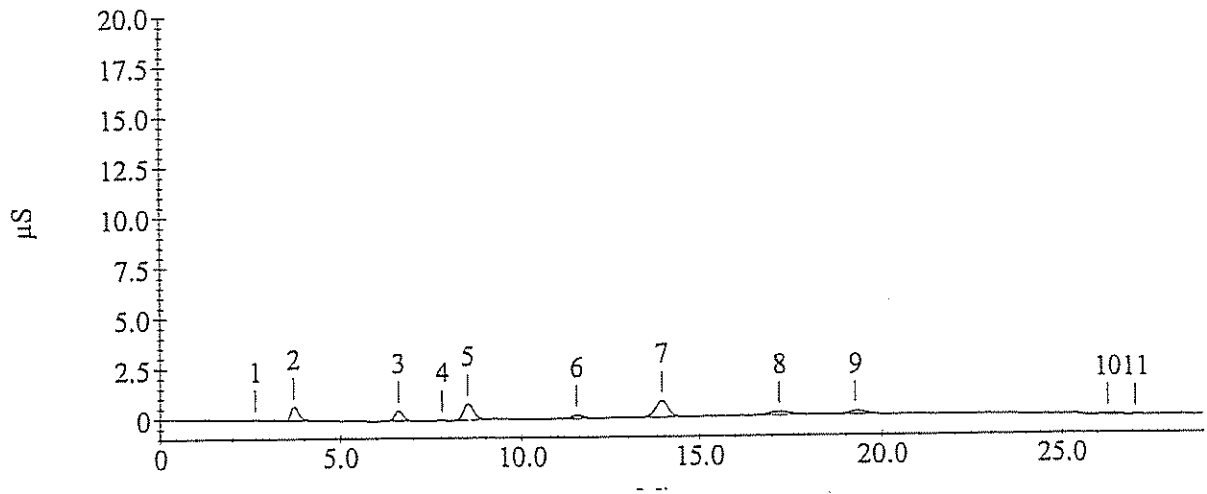
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__004.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:54:07 PM
Calibration Date : 9/18/08 10:54:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.70	127699	109547	109547
3	Chloride	6.60	79506	77116	77116
5	Nitrite-N	8.50	165770	159558	159558
6	Bromide	11.53	36476	38327	38327
7	Nitrate-N	13.93	210099	205502	205502
8	Phosphate-P	17.20	57656	67440	67440
9	Sulfate	19.27	29056	53957	53957

STD 2 - 0.10 mg/L



Calibration Update Report

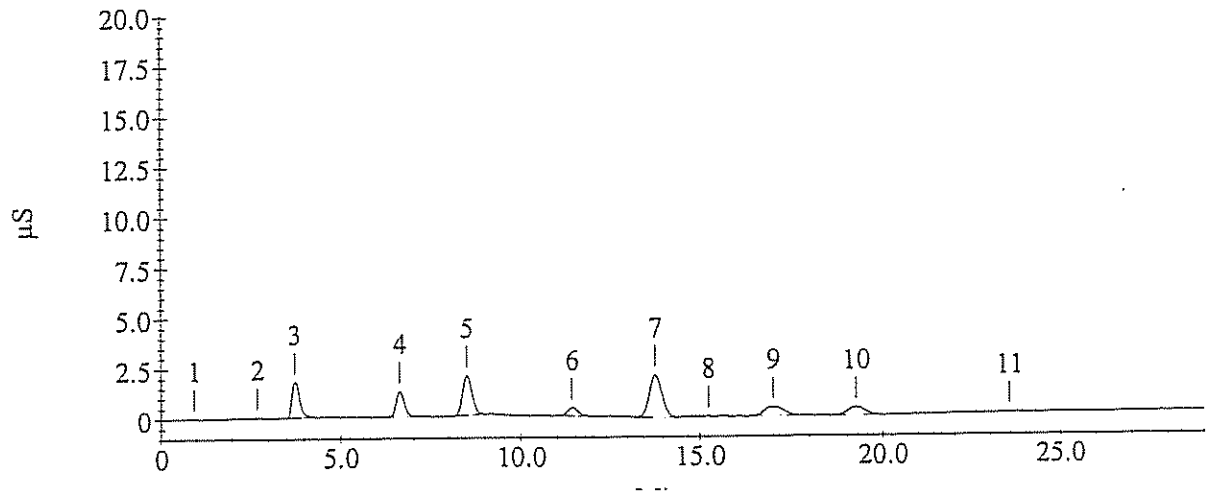
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__005.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:26:23 PM
Calibration Date : 9/18/08 10:55:25 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.73	321091	277132	277132
4	Chloride	6.63	234107	197410	197410
5	Nitrite-N	8.50	439503	359105	359105
6	Bromide	11.43	91211	88554	88554
7	Nitrate-N	13.77	544593	506530	506530
9	Phosphate-P	17.00	161886	165945	165945
10	Sulfate	19.27	150013	139751	139751

STD 3 - 0.25 mg/L



Calibration Update Report

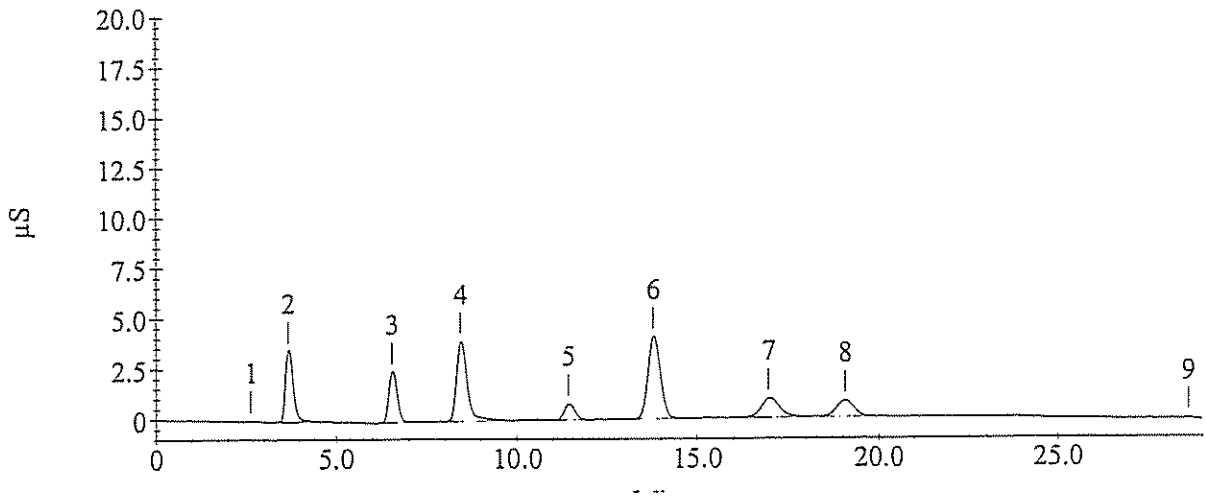
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__006.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:58:39 PM
Calibration Date : 9/18/08 10:55:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	652331	557311	557311
3	Chloride	6.53	443570	408470	408470
4	Nitrite-N	8.43	856511	820570	820570
5	Bromide	11.43	176794	165498	165498
6	Nitrate-N	13.77	1117440	970676	970676
7	Phosphate-P	16.97	364199	353067	353067
8	Sulfate	19.07	317565	274835	274835

STD 4 - 0.50 mg/L



Calibration Update Report

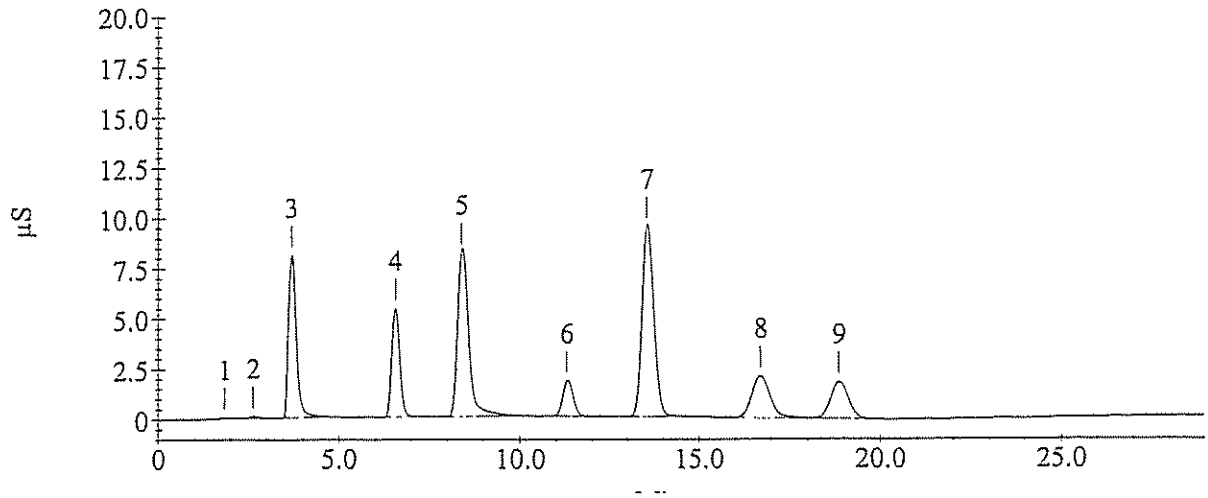
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__007.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 5:30:56 PM
Calibration Date : 9/18/08 10:56:16 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	1414952	1241286	1241286
4	Chloride	6.57	945973	836176	836176
5	Nitrite-N	8.40	1867081	1743424	1743424
6	Bromide	11.30	378829	356395	356395
7	Nitrate-N	13.53	2350504	2165069	2165069
8	Phosphate-P	16.70	766176	734622	734622
9	Sulfate	18.87	605591	612643	612643

STD 5 - 1.00 mg/L



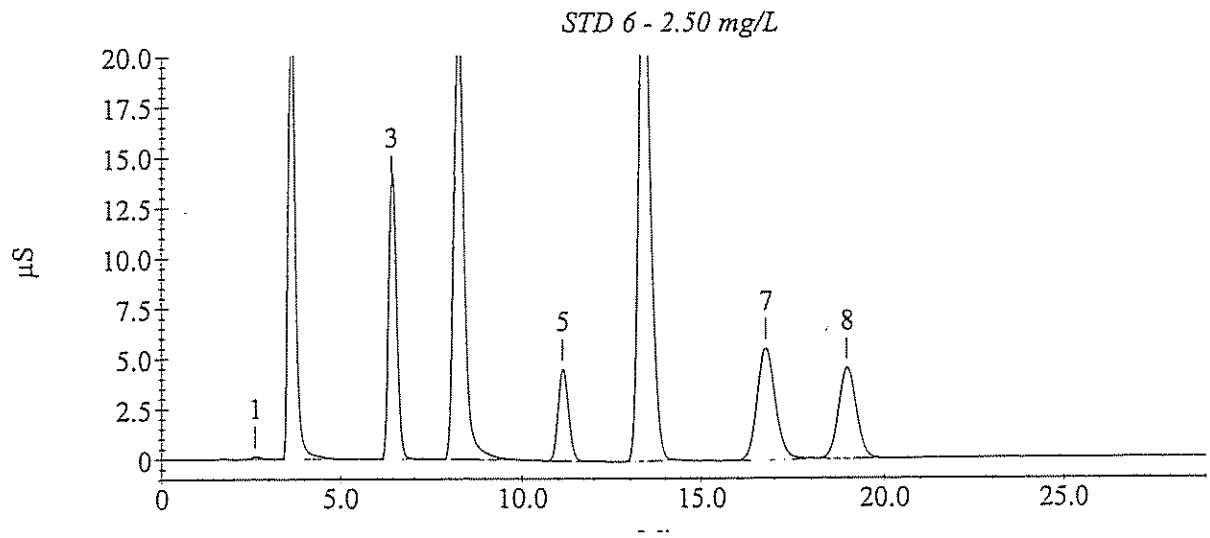
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__008.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:03:10 PM
Calibration Date : 9/18/08 10:56:45 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.63	3393532	3201114	3201114
3	Chloride	6.40	2250125	2128443	2128443
4	Nitrite-N	8.27	4631633	4384638	4384638
5	Bromide	11.13	897545	912041	912041
6	Nitrate-N	13.37	6210895	6057211	6057211
7	Phosphate-P	16.77	2064462	1937708	1937708
8	Sulfate	18.97	1545001	1520461	1520461



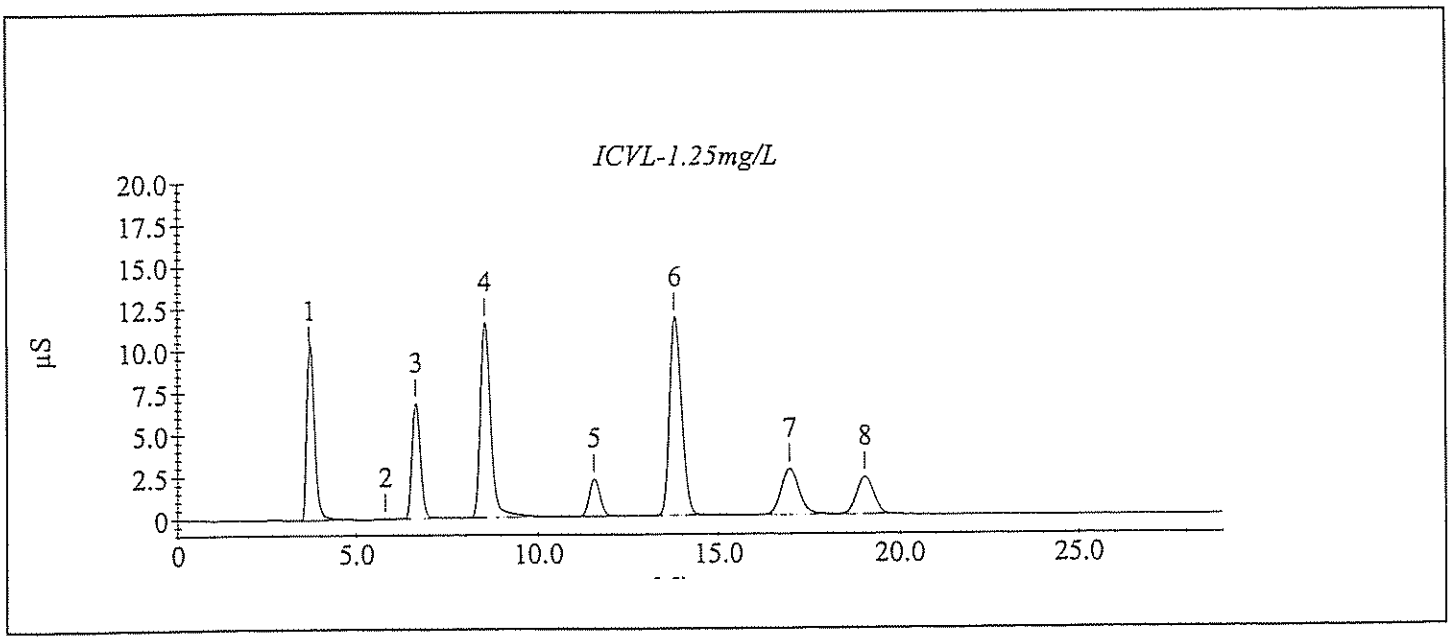
Sample Analysis Report

Sample Name : ICVL-1.25mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 9/17/08 9:49:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	1.272	1599310	100086
3	Chloride	6.63	1.281	1081600	67848
4	Nitrite-N	8.53	1.342	2332375	115172
5	Bromide	11.53	1.266	457280	22107
6	Nitrate-N	13.80	1.167	2714120	117215
7	Phosphate-P	16.97	1.231	934494	27173
8	Sulfate	19.03	1.214	732044	22175



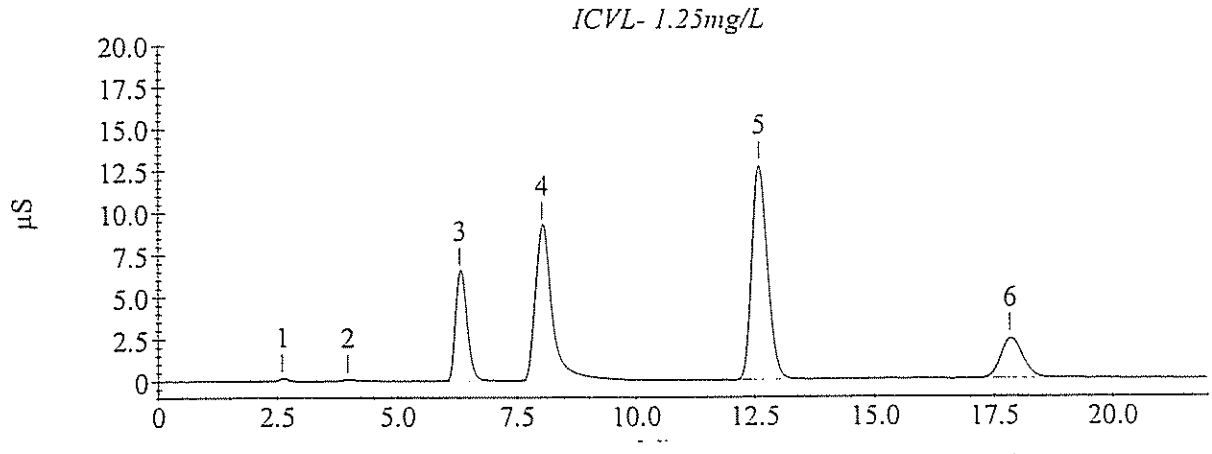
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___002.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/14/09 11:15:50 AM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.97	0.055	19116	1057
3	Chloride	6.30	1.324	1118859	64447
4	Nitrite-N Bromide	8.03	1.339	2326894	91081
5	Nitrate-N Phosphate-P	12.60	1.223	2850991	126725
6	Sulfate	17.83	1.267	764558	23483



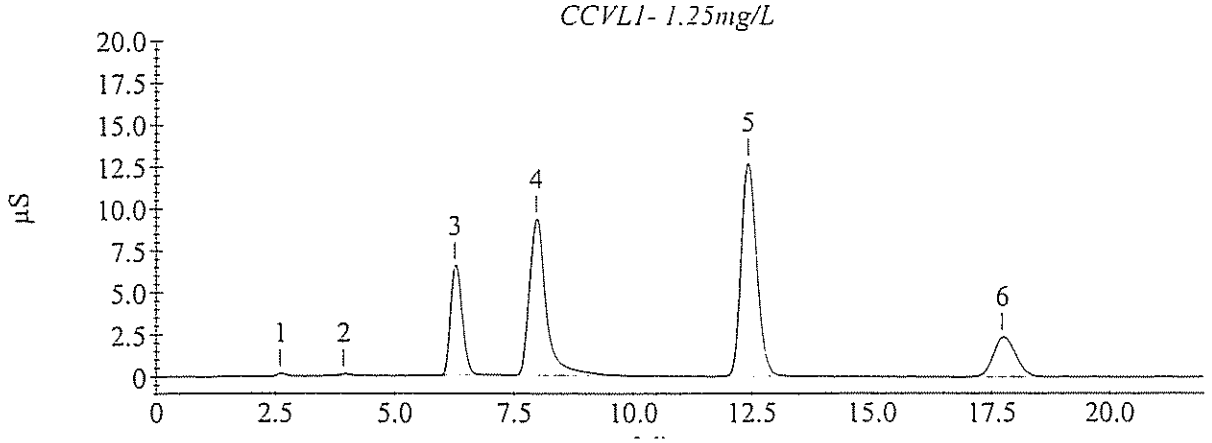
Sample Analysis Report

Sample Name : CCVL1- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___015.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/14/09 4:42:46 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.93	0.059	24554	1139
3	Chloride	6.27	1.289	1088861	64224
4	Nitrite-N Bromide	7.97	1.319	2291535	92233
5	Nitrate-N Phosphate-P	12.43	1.218	2840535	126622
6	Sulfate	17.73	1.279	771991	23410



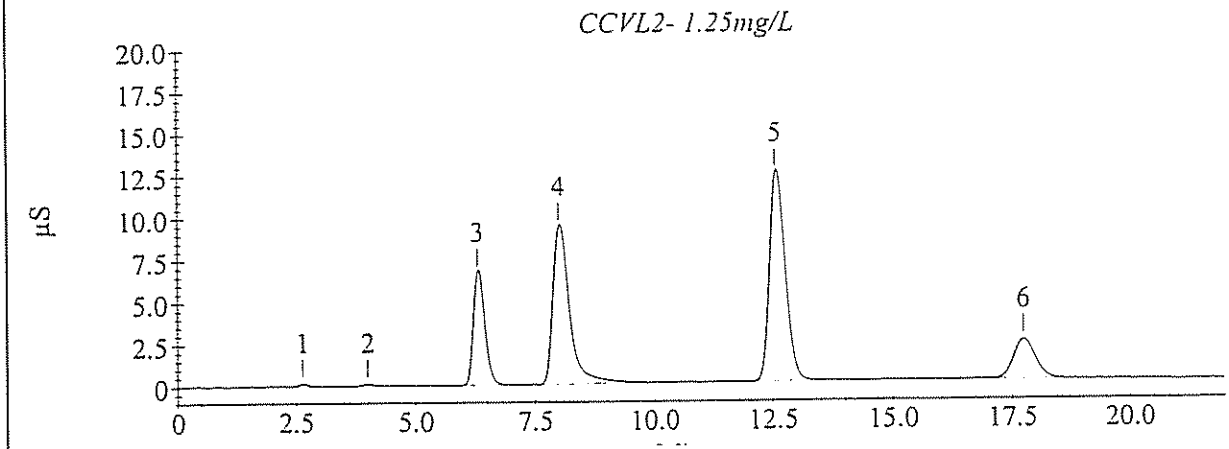
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___020.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/14/09 6:48:26 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	4.00	0.057	21096	1079
3	Chloride	6.30	1.351	1141820	66091
4	Nitrite-N	8.00	1.322	2296754	92810
5	Bromide Nitrate-N	12.57	1.211	2822232	122878
6	Phosphate-P Sulfate	17.73	1.250	754068	23422



Method Report - 080917H-300-0

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	2.00 min	
Chloride	6.60 min	2.00 min	
Nitrite-N	8.60 min	2.00 min	
Bromide	11.10 min	2.00 min	
Nitrate-N	12.53 min	2.00 min	
Phosphate-P	16.53 min	2.00 min	
Sulfate	18.63 min	2.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.60 min	0	0
Nitrite-N	8.60 min	0	0
Bromide	11.10 min	0	0
Nitrate-N	12.53 min	0	0
Phosphate-P	16.53 min	0	0
Sulfate	18.63 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.60 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.60 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.10 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.53 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.53 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.63 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.19633e+006
2	5.00	6.79909e+006
3	10.00	1.4197e+007
4	15.00	2.23583e+007
5	25.00	3.24666e+007
6	50.00	5.95621e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.17209e+006
2	5.00	4.74491e+006
3	10.00	1.09177e+007
4	15.00	1.81901e+007
5	25.00	3.02302e+007
6	50.00	6.49975e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.50237e+006
2	5.00	9.32687e+006
3	10.00	1.88466e+007
4	15.00	2.84344e+007
5	25.00	4.30083e+007
6	50.00	7.78228e+007

CD20 Component = Bromide Levels Table

Retention Time : 11.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	944915
2	5.00	1.94188e+006
3	10.00	4.22448e+006
4	15.00	6.96738e+006
5	25.00	1.20925e+007
6	50.00	2.71285e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.0797e+006
2	5.00	1.34786e+007
3	10.00	2.97651e+007
4	15.00	4.68262e+007
5	25.00	7.95557e+007
6	50.00	1.68531e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.91979e+006
2	5.00	4.10318e+006
3	10.00	9.26053e+006
4	15.00	1.50936e+007
5	25.00	2.73147e+007
6	50.00	5.84703e+007

CD20 Component = Sulfate Levels Table

Retention Time : 18.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.51196e+006
2	5.00	3.10193e+006
3	10.00	6.7792e+006
4	15.00	1.0794e+007
5	25.00	1.95858e+007
6	50.00	4.20941e+007

CD20 XY Data Parameters

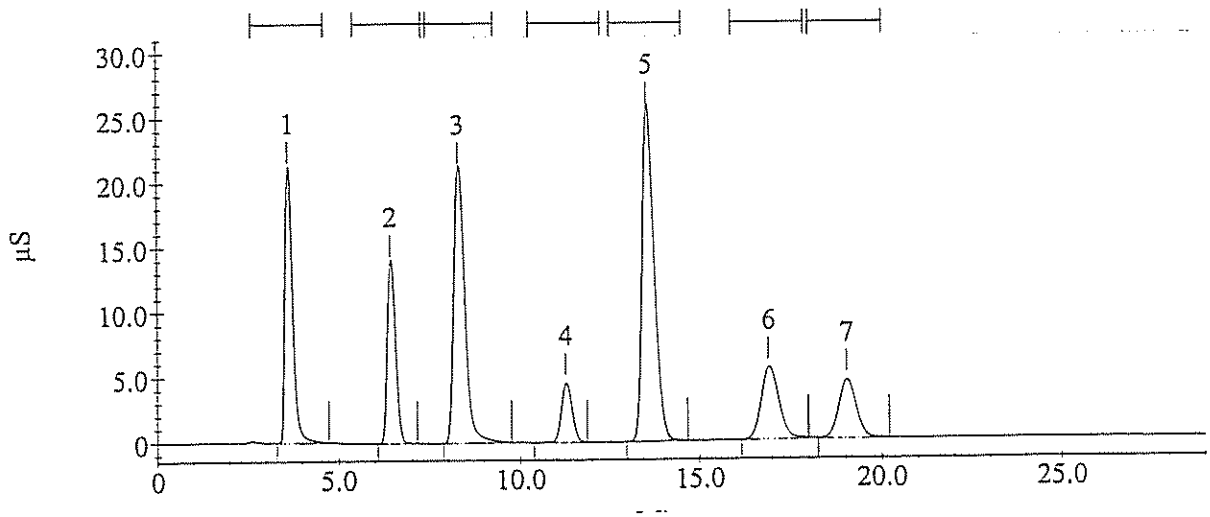
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__009.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:35:27 PM
Calibration Date : 9/18/08 1:45:07 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.63	3490609	3196333	3196333
2	Chloride	6.43	2340736	2172090	2172090
3	Nitrite-N	8.30	4788476	4502370	4502370
4	Bromide	11.27	910060	944915	944915
5	Nitrate-N	13.53	6100255	6079699	6079699
6	Phosphate-P	16.90	1989759	1919795	1919795
7	Sulfate	19.03	1509227	1511958	1511958



Calibration Update Report

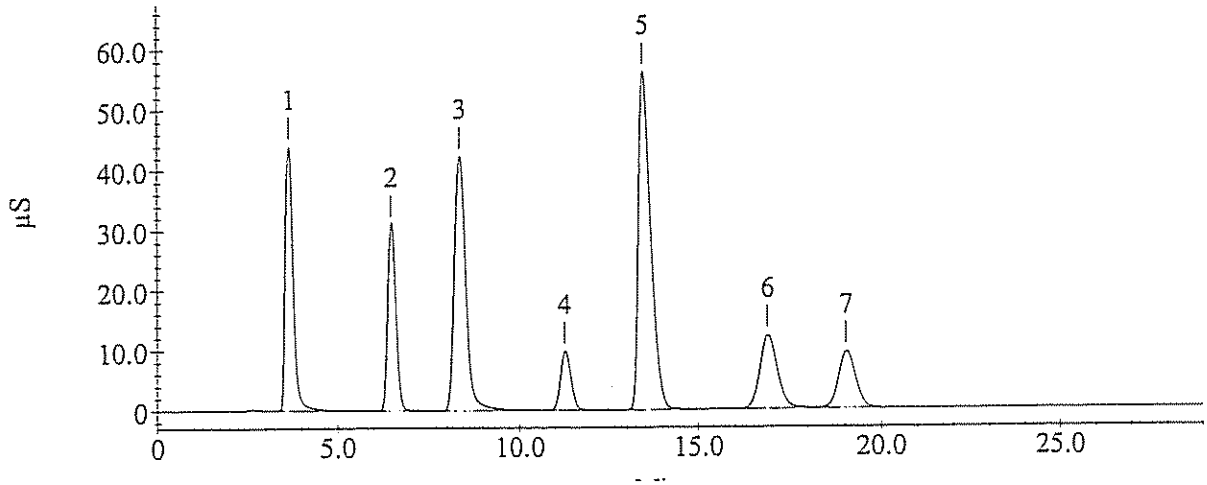
Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__010.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:07:45 PM
Calibration Date : 9/18/08 1:46:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	7163728	6799090	6799090
2	Chloride	6.47	4951970	4744908	4744908
3	Nitrite-N	8.37	9622812	9326874	9326874
4	Bromide	11.27	1886735	1941879	1941879
5	Nitrate-N	13.47	13547415	13478598	13478598
6	Phosphate-P	16.90	4333106	4103184	4103184
7	Sulfate	19.03	3220366	3101926	3101926

STD 2 - 5.00 mg/L



Calibration Update Report

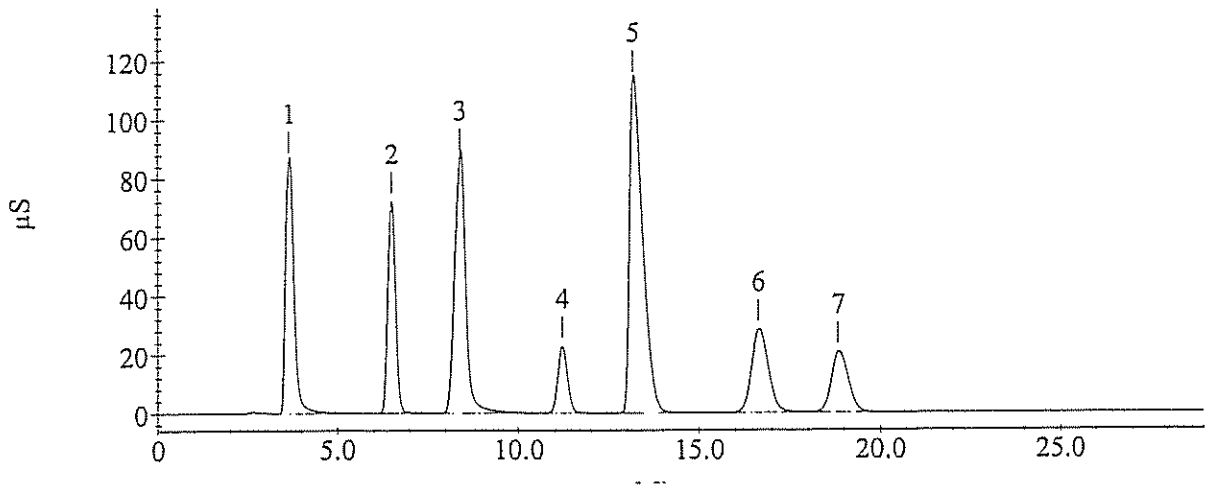
Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__011.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:39:59 PM
Calibration Date : 9/18/08 1:46:56 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	15827968	14197049	14197049
2	Chloride	6.50	12391700	10917702	10917702
3	Nitrite-N	8.40	20828057	18846586	18846586
4	Bromide	11.20	4468055	4224476	4224476
5	Nitrate-N	13.17	32002772	29765135	29765135
6	Phosphate-P	16.63	10155360	9260527	9260527
7	Sulfate	18.83	7254458	6779202	6779202

STD 3 - 10.0 mg/L



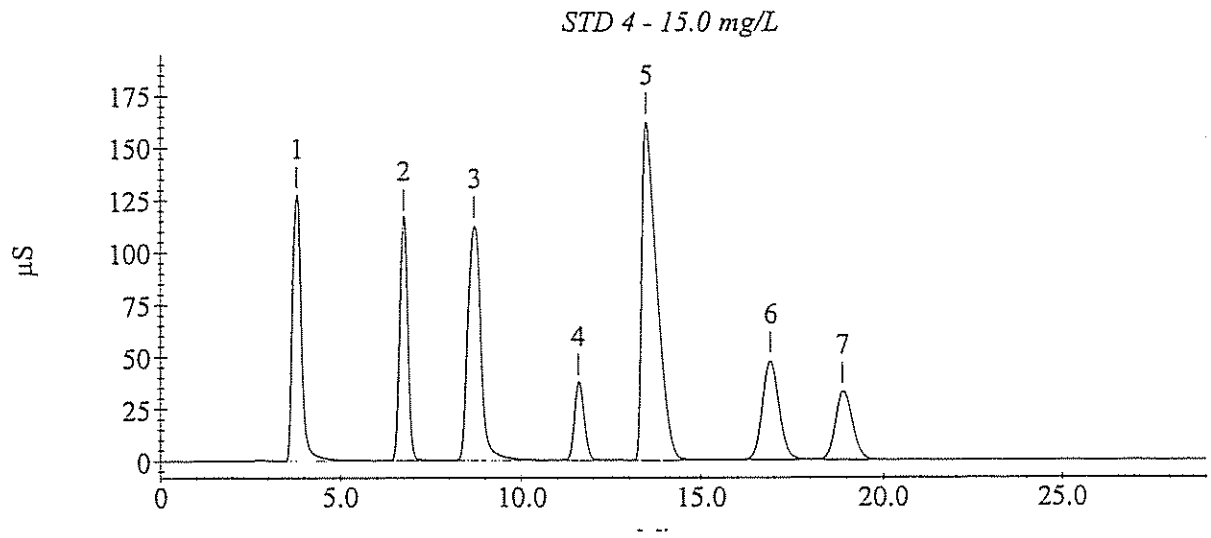
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__012.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:12:14 PM
Calibration Date : 9/18/08 1:55:13 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.80	22029611	22358309	22358309
2	Chloride	6.73	18865697	18190071	18190071
3	Nitrite-N	8.70	29289300	28434383	28434383
4	Bromide	11.57	7016812	6967382	6967382
5	Nitrate-N	13.47	50292581	46826178	46826178
6	Phosphate-P	16.90	16723468	15093639	15093639
7	Sulfate	18.87	11671317	10793955	10793955



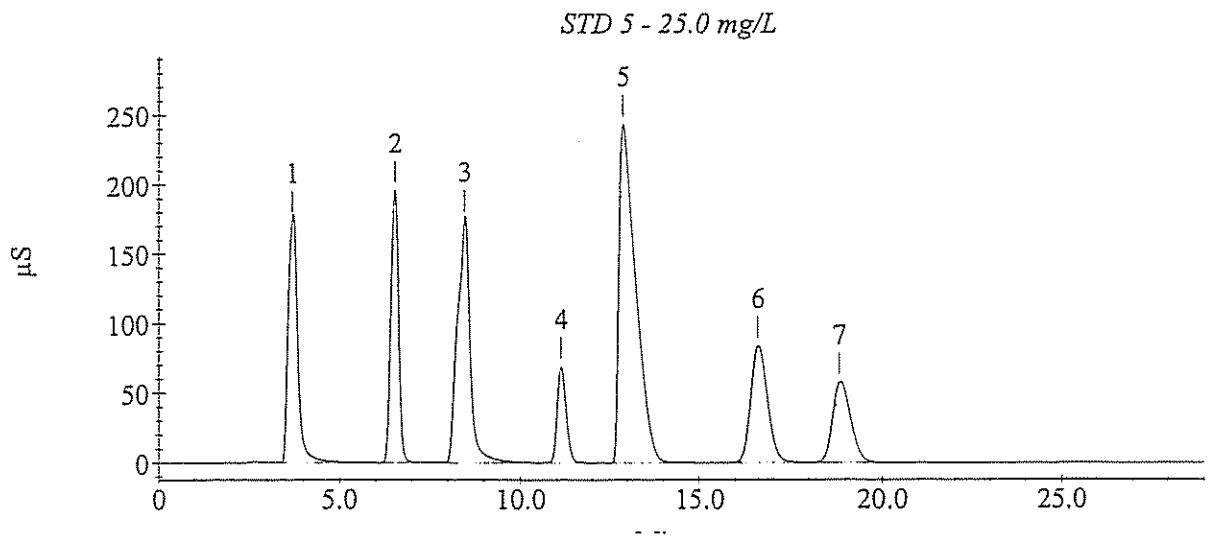
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__013.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:44:30 PM
Calibration Date : 9/18/08 1:55:31 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.70	33007779	32466619	32466619
2	Chloride	6.53	32580429	30230161	30230161
3	Nitrite-N	8.47	44840173	43008339	43008339
4	Bromide	11.13	12419665	12092529	12092529
5	Nitrate-N	12.87	83601485	79555670	79555670
6	Phosphate-P	16.60	28101078	27314683	27314683
7	Sulfate	18.83	19423982	19585760	19585760



Calibration Update Report

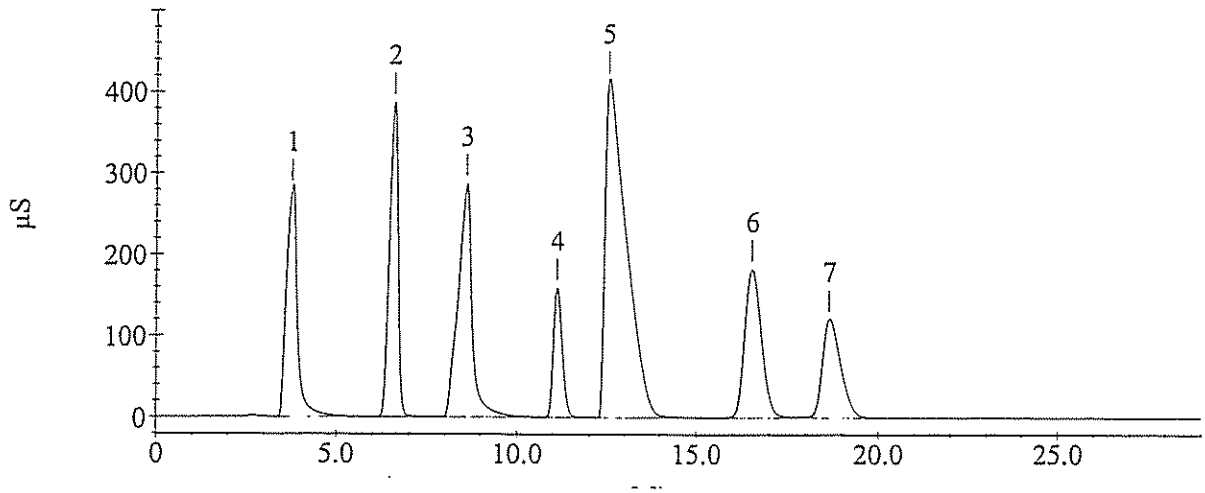
Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__014.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 9:16:45 PM
Calibration Date : 9/18/08 1:55:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.77	61202691	59562057	59562057
2	Chloride	6.60	68397328	64997521	64997521
3	Nitrite-N	8.60	78043406	77822760	77822760
4	Bromide	11.10	26985167	27128528	27128528
5	Nitrate-N	12.53	170058779	168531288	168531288
6	Phosphate-P	16.53	60044391	58470285	58470285
7	Sulfate	18.63	41693235	42094125	42094125

STD 6 - 50.0 mg/L



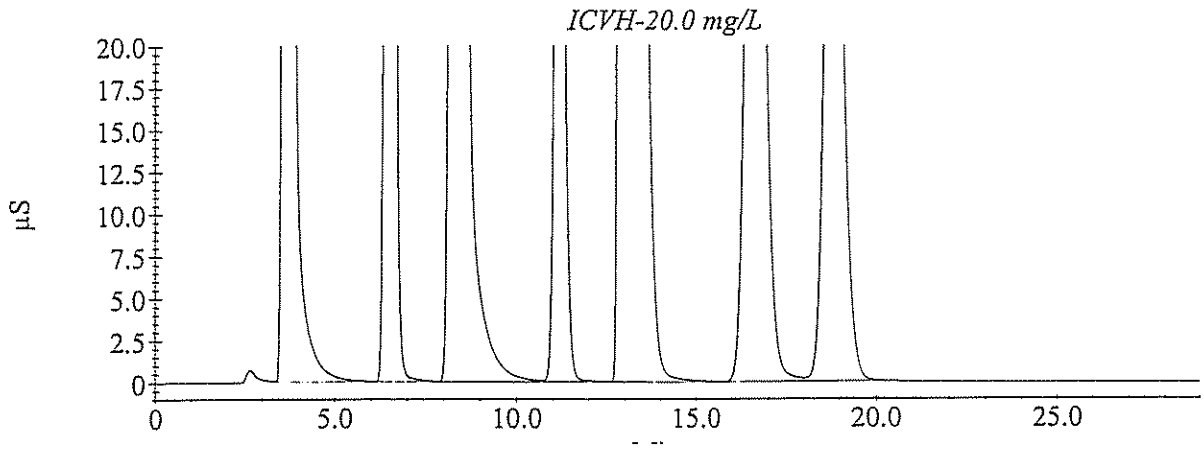
Sample Analysis Report

Sample Name : ICVH-20.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__016.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 9/17/08 10:21:17 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	19.970	27365306	1532443
2	Chloride	6.53	19.882	24486856	1608579
3	Nitrite-N	8.47	22.633	37577280	1419007
4	Bromide	11.17	18.982	9475913	530938
5	Nitrate-N	12.97	19.672	63390755	2049592
6	Phosphate-P	16.60	19.427	21178030	659102
7	Sulfate	18.80	19.274	15149498	460473



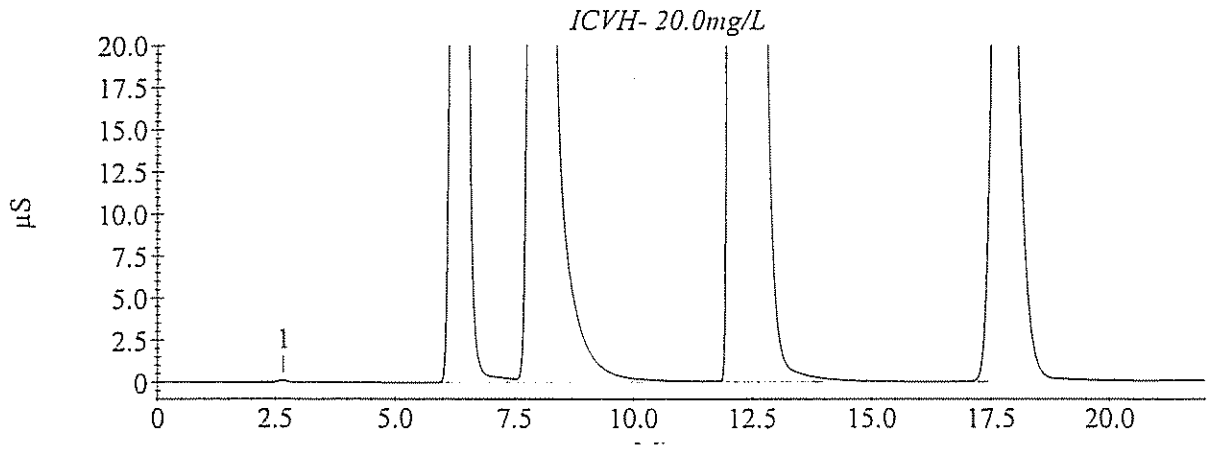
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___003.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917h-300-0.met
Date Time Collected : 3/14/09 11:40:58 AM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	18226	1262
2	Chloride	6.33	21.283	26349406	1622665
3	Nitrite-N Bromide	8.00	23.264	38548484	1651626
4	Nitrate-N Phosphate-P	12.17	21.101	68292046	2290514
5	Sulfate	17.73	20.518	16223454	520070



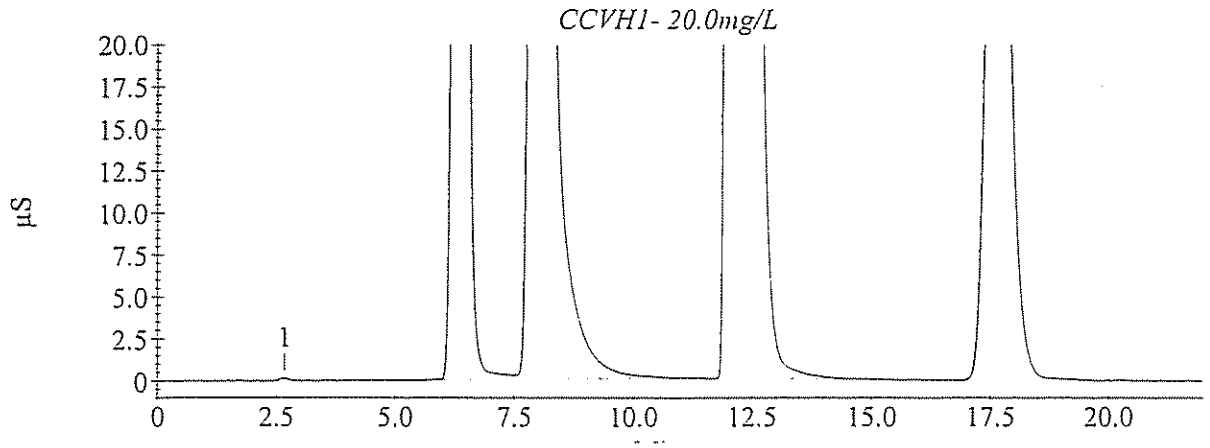
Sample Analysis Report

Sample Name : CCVH1- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___016.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917h-300-0.met
Date Time Collected : 3/14/09 5:07:56 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	21717	1504
2	Chloride	6.37	21.135	26152940	1627135
3	Nitrite-N Bromide	8.00	23.036	38197243	1615935
4	Nitrate-N Phosphate-P	12.10	20.720	66986515	2276982
5	Sulfate	17.63	20.512	16218663	522933



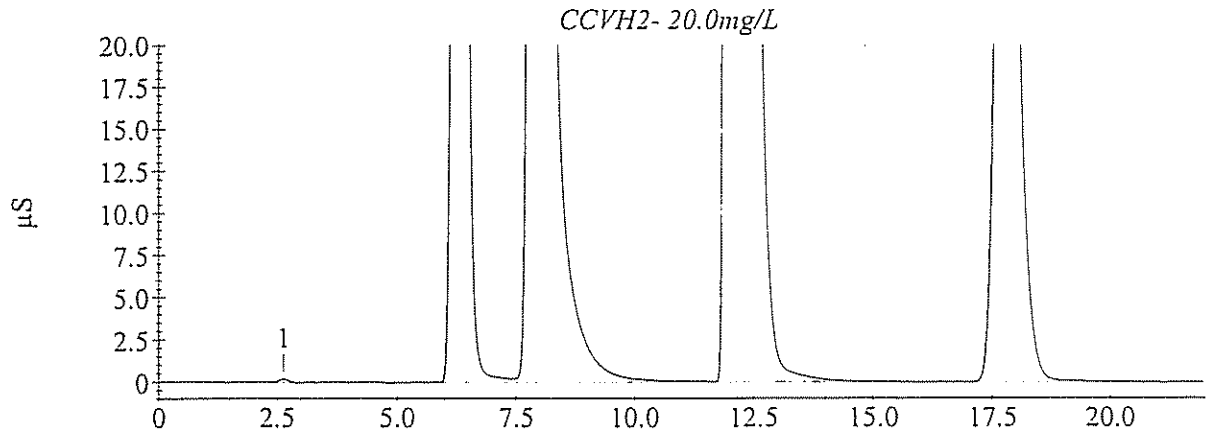
Sample Analysis Report

Sample Name : CCVH2- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___021.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/14/09 7:13:35 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	26628	1968
2	Chloride	6.30	21.085	26086251	1563279
3	Nitrite-N Bromide	7.97	23.624	39102663	1428705
4	Nitrate-N Phosphate-P	12.07	20.977	67866382	2313101
5	Sulfate	17.77	20.418	16137366	524733



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

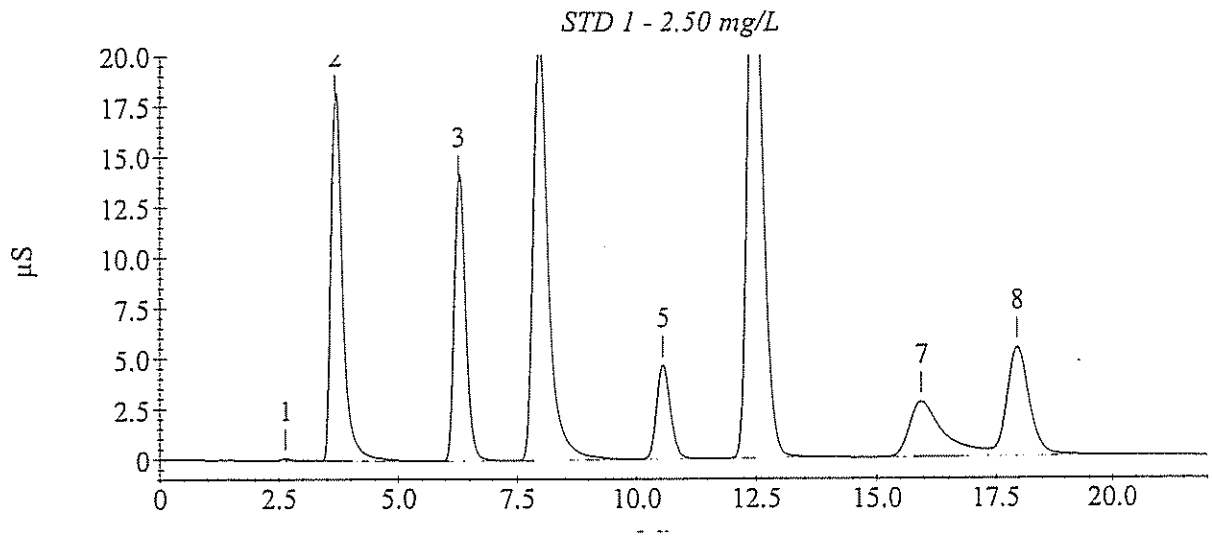
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



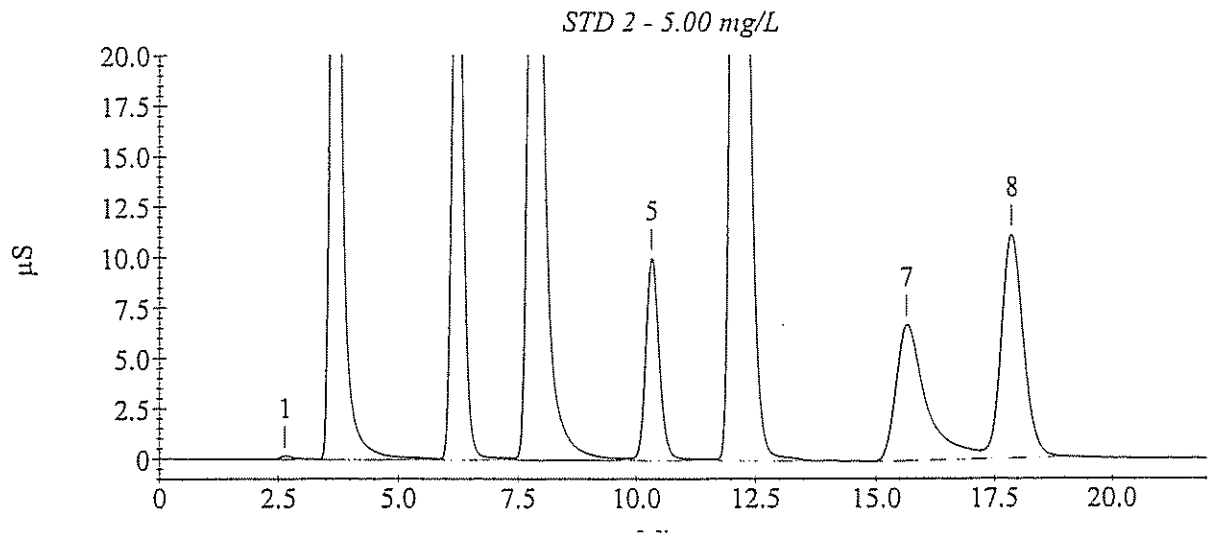
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077



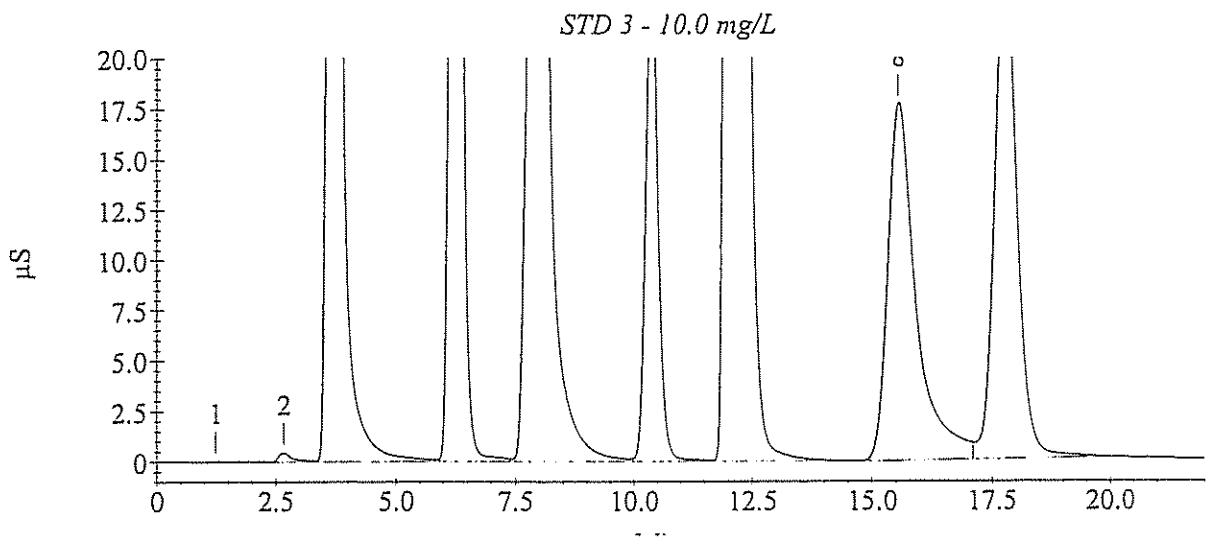
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944



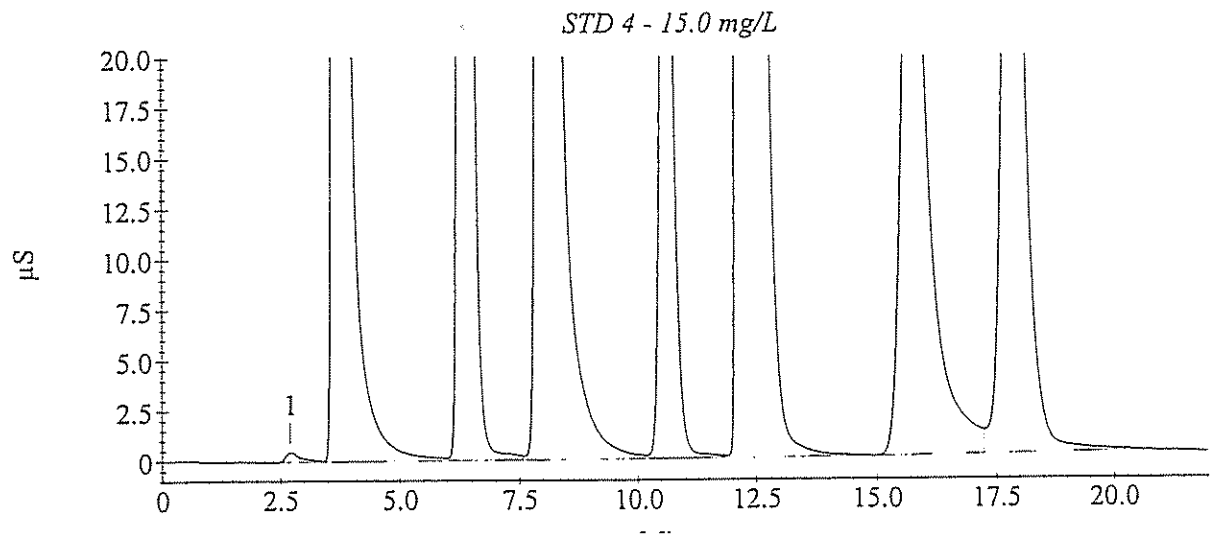
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



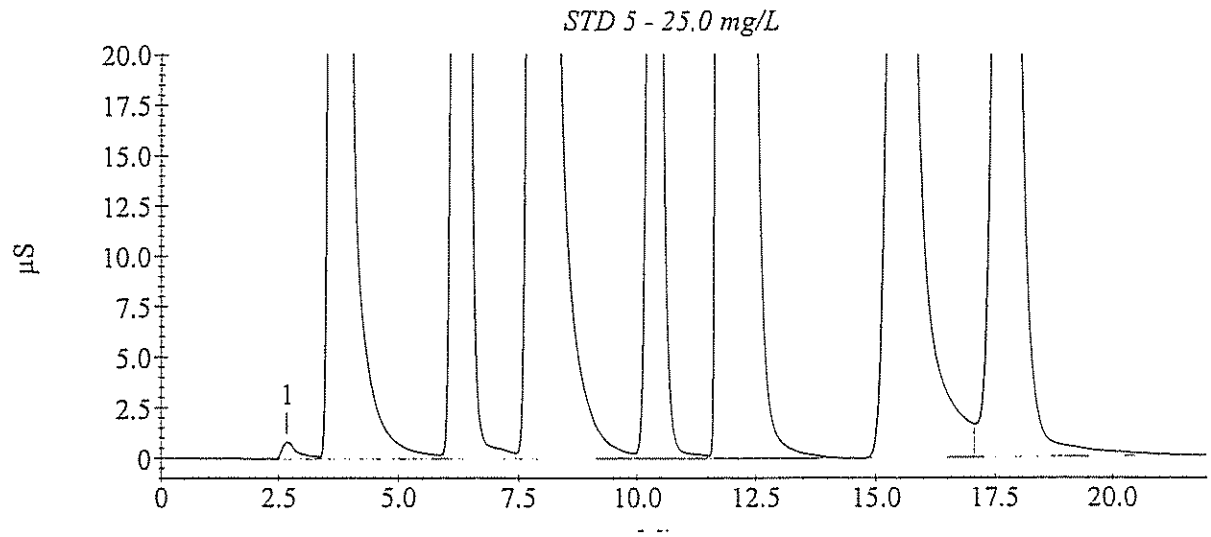
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



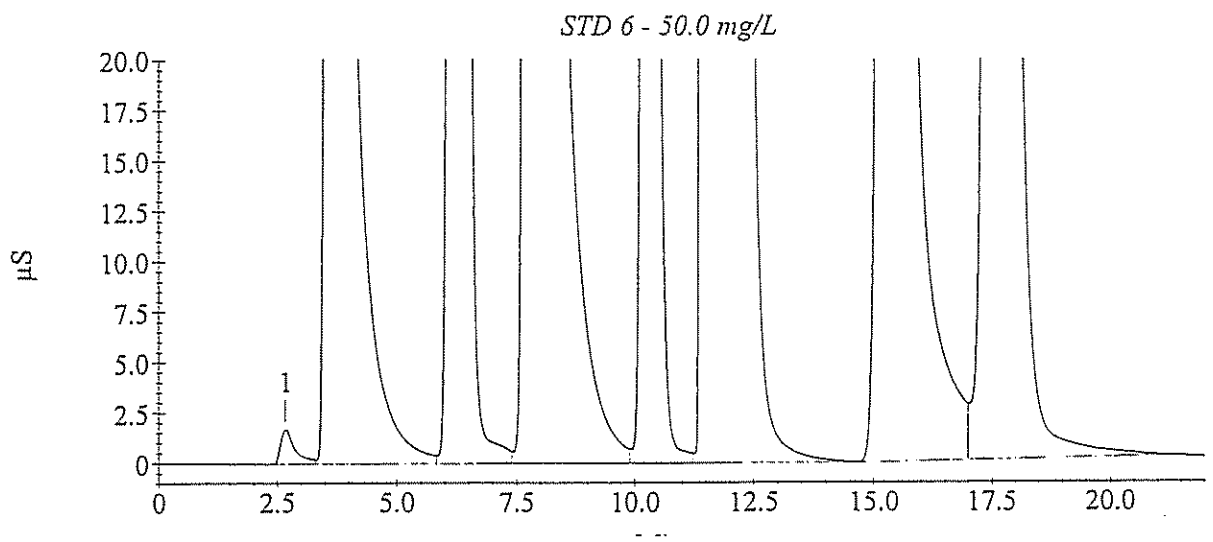
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829



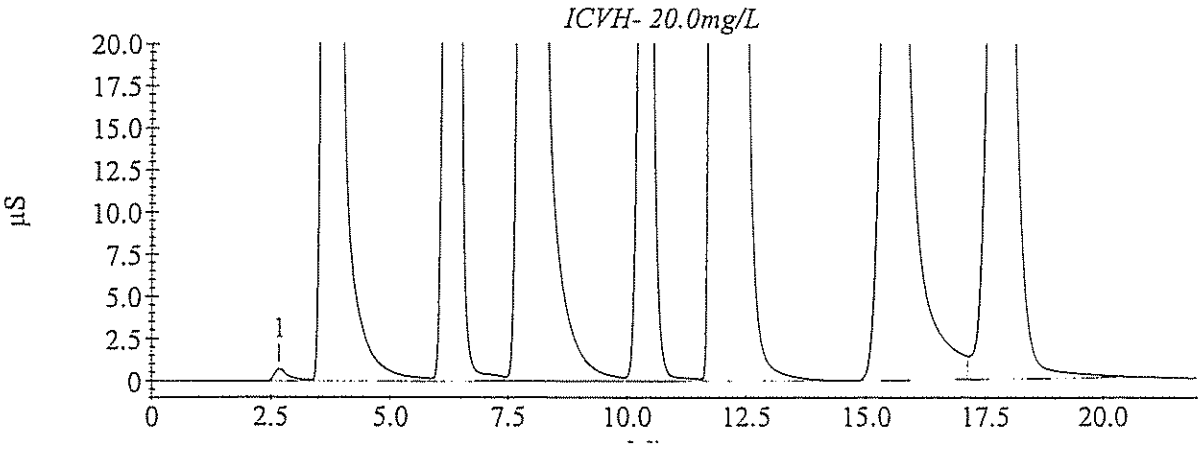
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



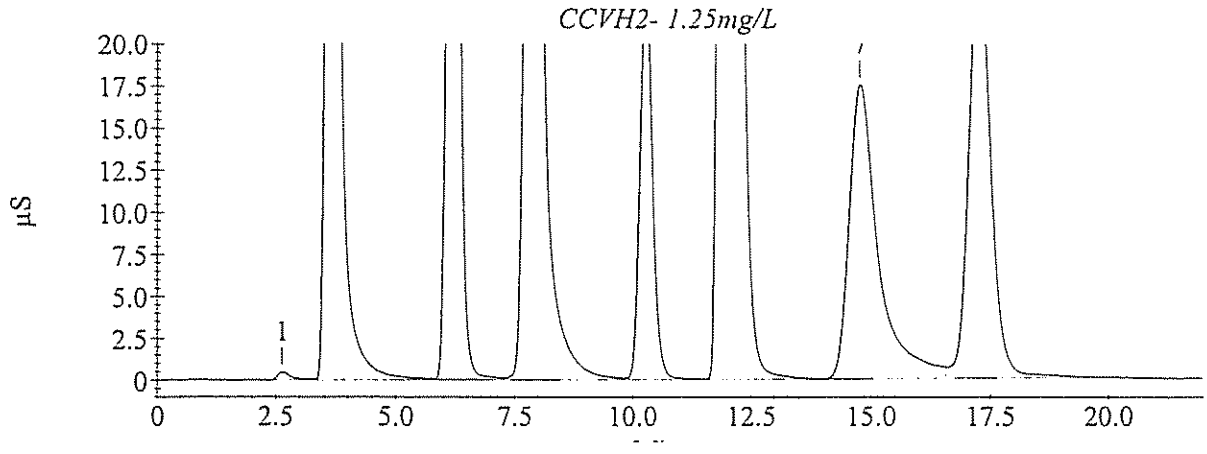
Sample Analysis Report

Sample Name : CCVH2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__024.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/25/09 10:21:41 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	9.743	14015879	755512
3	Chloride	6.17	9.472	11126792	631153
4	Nitrite-N	7.87	12.115	19101071	898419
5	Bromide	10.27	9.440	4327259	230807
6	Nitrate-N	11.93	9.868	31039458	1263760
7	Phosphate-P	14.77	9.478	7276222	174267
8	Sulfate	17.23	9.596	8090855	252967



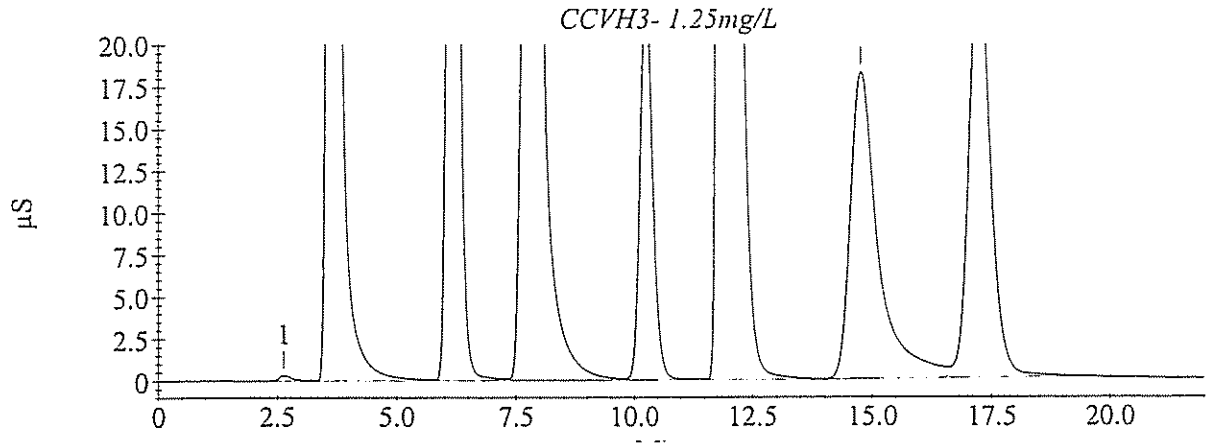
Sample Analysis Report

Sample Name : CCVH3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__037.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 3:47:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	9.671	13912167	763604
3	Chloride	6.17	9.516	11186718	685205
4	Nitrite-N	7.83	12.045	19010762	835902
5	Bromide	10.23	9.404	4306633	228108
6	Nitrate-N	11.90	9.841	30945297	1256793
7	Phosphate-P	14.77	9.517	7318148	182147
8	Sulfate	17.20	9.457	7949216	248531



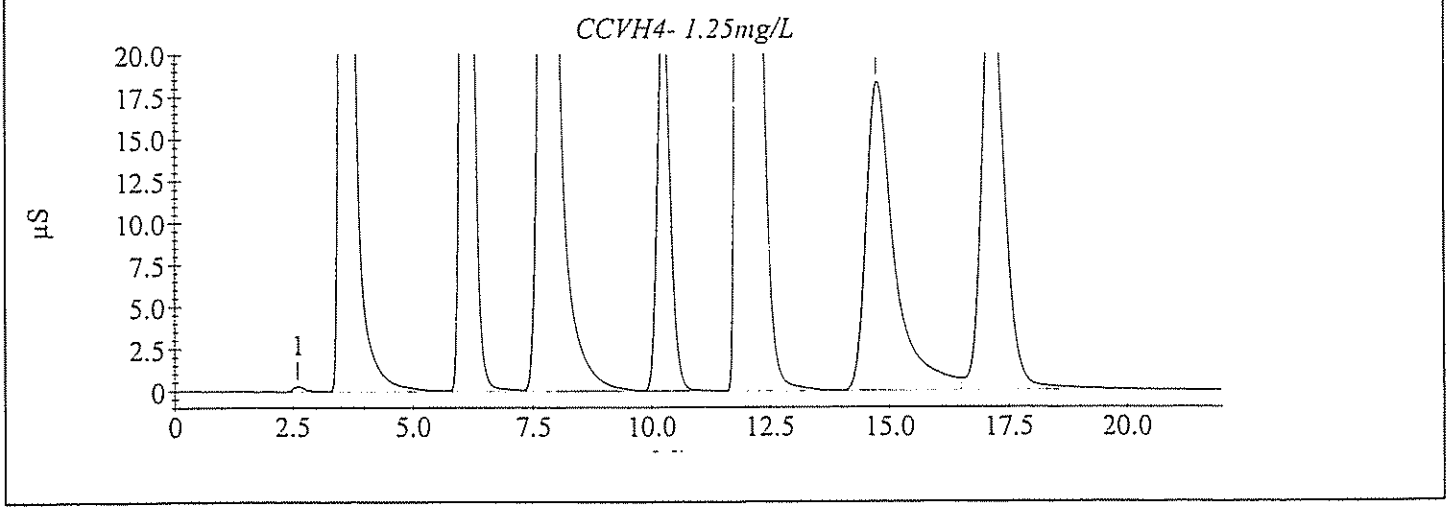
Sample Analysis Report

Sample Name : CCVH4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__046.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 7:32:34 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	9.723	13987121	757655
3	Chloride	6.13	9.562	11251043	691702
4	Nitrite-N	7.80	12.076	19050948	851488
5	Bromide	10.27	9.473	4346222	230035
6	Nitrate-N	11.93	10.008	31535639	1238138
7	Phosphate-P	14.73	9.678	7493663	182812
8	Sulfate	17.13	9.701	8198816	251245



Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903093

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-16GW35-0309	18.8	19.1	1.80	15%
Nitrite-N	E300.0	OU1-16GW35-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-16GW35-0309	0.102	0.104	1.94	15%

RPD - 0 out of 3 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-16GW35-0309	18.8	29.7	10.0	109	90 - 110%
Nitrite-N	E300.0	OU1-16GW35-0309	0.00	1.30	1.00	130*	90 - 110%
Nitrate-N	E300.0	OU1-16GW35-0309	0.102	1.05	1.00	94.5	90 - 110%

Recovery - 1 out of 3 outside control limits

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903093 STD Solution ID: 45325/45405

3/14/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVL	**Chloride**	1.25	1.32	106	90 - 110%
	Nitrite-N	1.25	1.34	107	90 - 110%
	Nitrate-N	1.25	1.22	97.8	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	**Chloride**	1.25	1.29	103	90 - 110%
	Nitrite-N	1.25	1.32	106	90 - 110%
	Nitrate-N	1.25	1.22	97.4	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	**Chloride**	1.25	1.35	108	90 - 110%
	Nitrite-N	1.25	1.32	106	90 - 110%
	Nitrate-N	1.25	1.21	96.9	90 - 110%

3/14/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVH	**Chloride**	20.0	21.3	106	90 - 110%
	Nitrate-N	20.0	21.1	106	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	**Chloride**	20.0	21.1	106	90 - 110%
	Nitrate-N	20.0	20.7	104	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	**Chloride**	20.0	21.1	105	90 - 110%
	Nitrate-N	20.0	21.0	105	90 - 110%

3/25/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	**Chloride**	10.0	9.47	94.7	90 - 110%
	Nitrate-N	10.0	9.87	98.7	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	**Chloride**	10.0	9.52	95.2	90 - 110%
	Nitrate-N	10.0	9.84	98.4	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	**Chloride**	10.0	9.56	95.6	90 - 110%
	Nitrate-N	10.0	10.0	100	90 - 110%

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #44805/#44035

LCSL (3/14/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	158	99.7	85 - 115%
Nitrite-N	732	710	96.9	85 - 115%
Nitrate-N	187	176	94.1	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/14/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	156	98.4	85 - 115%
Nitrate-N	187	185	99.1	85 - 115%

Recovery - 0 out of 2 outside Control Limits

TOTAL PETROLEUM HYDROCARBON GASOLINE RANGE ORGANICS

GPL Laboratories

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OUI-16GW01-0309MSD

Lab Name : GPL Laboratories SDG NO : 903062 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903062-006-032-1/2MSD Matrix : WATER Analysis Date : 03/20/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	31	31	0.0	30	29	97	94	3	25	80-120
Ethene	29	29	0.0	26	25	90	86	5	25	80-120
Methane	16	16	0.0	16	16	100	100	0	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 0 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108833

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Lab File ID :	G262618.D	SDG NO :	903093
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108833
GC Column :	ID. RTX_VC	Time Analyzed :	07:28

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW32-0309	903093-003-051-1/2	G262638.D	13:26
OU1-MW38-0309	903093-001-047-1/2	G262636.D	12:53
OU1-MW39-0309	903093-002-049-1/2	G262637.D	13:09

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108834

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Lab File ID :	G262640.D	SDG NO :	903093
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108834
GC Column :	ID. RTX_VC	Time Analyzed :	14:25

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW06-0309	903093-004-053-1/2	G262642.D	14:55
OU1-16GW06-0309DL	903093-004-053-1/2	G262644.D	15:28
OU1-16GW28-0309	903093-005-055-1/2	G262643.D	15:10
OU1-16GW28-0309DL	903093-005-055-1/2	G262645.D	15:43
OU1-16GW29-0309	903093-006-057-1/2	G262646.D	16:00
OU1-16GW29-0309DL	903093-006-057-1/2	G262648.D	16:33
OU1-16GW34-0309	903093-007-059-1/2	G262647.D	16:16
OU1-16GW34-0309DL	903093-007-059-1/2	G262649.D	16:47
OU1-16GW35-0309	903093-008-061-1/2	G262650.D	17:10
OU1-MW39-0309DL	903093-002-049-1/2	G262641.D	14:40

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108833

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108833
Sample Volume :	10	Lab File ID :	G262618.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108834

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108834
Sample Volume :	10	Lab File ID :	G262640.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-053-1/2
Sample Volume :	10	Lab File ID :	G262642.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.2	J
74-82-8	Methane	100	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-053-1/2
Sample Volume :	1	Lab File ID :	G262644.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	100	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-055-1/2
Sample Volume :	10	Lab File ID :	G262643.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	5.0	J
74-85-1	Ethene	5.8	U
74-82-8	Methane	970	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-055-1/2
Sample Volume :	.2	Lab File ID :	G262645.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	310	U
74-85-1	Ethene	290	U
74-82-8	Methane	370	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-057-1/2
Sample Volume :	10	Lab File ID :	G262646.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	8200	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-057-1/2
Sample Volume :	.01	Lab File ID :	G262648.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1000
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6200	U
74-85-1	Ethene	5800	U
74-82-8	Methane	9200	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-051-1/2
Sample Volume :	10	Lab File ID :	G262638.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	6.1	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-059-1/2
Sample Volume :	10	Lab File ID :	G262647.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	280	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-059-1/2
Sample Volume :	.5	Lab File ID :	G262649.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	440	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-061-1/2
Sample Volume :	10	Lab File ID :	G262650.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	14	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-047-1/2
Sample Volume :	10	Lab File ID :	G262636.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	14	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-049-1/2
Sample Volume :	10	Lab File ID :	G262637.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	730	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-049-1/2
Sample Volume :	.1	Lab File ID :	G262641.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	720	

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009

Calibration Files
1 =G262567.D 2 =G262568.D 10 =G262571.D
5 =G262570.D 4 =G262569.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	1.844	1.715	1.208	1.507	1.544	1.563 E2	15.39
2)	T	Ethane	2.965	2.600	1.796	2.090	2.406	2.371 E1	19.04
3)	T	Ethylene	3.591	3.466	2.153	2.763	2.893	2.973 E1	19.52

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262617.D Vial: 35
Acq On : 24 Mar 2009 6:59 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	143.072	8.5	95	0.02
2	T	Ethane	23.713	21.506	9.3	103	-0.02
3	T	Ethylene	29.730	25.808	13.2	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G262617.D RSK0320.M Tue Mar 24 07:11:21 2009 W28_IOANNIDE Page 1

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262629.D
Acq On : 24 Mar 2009 10:38
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 13
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	162.229	-3.8	108	0.03
2	T	Ethane	23.713	19.327	18.5	92	0.00
3	T	Ethylene	29.730	23.918	19.5	87	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262639.D Vial: 23
Acq On : 24 Mar 2009 13:45 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	150.482	3.7	100	0.02
2	T	Ethane	23.713	20.545	13.4	98	0.03
3	T	Ethylene	29.730	25.430	14.5	92	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G262639.D RSK0320.M Tue Mar 24 13:56:31 2009 W28_IOANNIDE Page 1

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262653.D Vial: 37
Acq On : 24 Mar 2009 18:06 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	150.843	3.5	100	0.02
2	T	Ethane	23.713	22.564	4.8	108	0.03
3	T	Ethylene	29.730	26.117	12.2	95	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report - Not Founds

Data File : H:\GCDATA\G\032409\G262653.D Vial: 37
Acq On : 24 Mar 2009 18:06 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GENERAL CHEMISTRY ANALYSES

GPL Laboratories

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLP Client: CH2M Hill

GPL Work-Order: 903093

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	shared w/903071	BQL	BQL	N/C	15%

%RPD - 0 out of 1 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-16GW29-0309	3.4	6.42	3.00	100.7	85 - 115%

% Recovery - 0 out of 1 outside control limits

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903093 STD Solution ID: #43278

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	31.9	33.1	104	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	32.9	103	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	33.0	103	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	32.0	100	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	30.6	96	90 - 110%

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-001-063-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.1	
7440-44-0	Total Organic Carbon, Replicate 2	5.4	
7440-44-0	Total Organic Carbon, Replicate 3	5.4	
7440-44-0	Total Organic Carbon, Replicate 4	5.4	
7440-44-0	Total Organic Carbon, Average	5.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-002-064-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.8	
7440-44-0	Total Organic Carbon, Replicate 2	6.6	
7440-44-0	Total Organic Carbon, Replicate 3	6.9	
7440-44-0	Total Organic Carbon, Replicate 4	6.8	
7440-44-0	Total Organic Carbon, Average	6.8	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-003-065-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	9.4	
7440-44-0	Total Organic Carbon, Replicate 2	8.6	
7440-44-0	Total Organic Carbon, Replicate 3	8.5	
7440-44-0	Total Organic Carbon, Replicate 4	8.5	
7440-44-0	Total Organic Carbon, Average	8.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-004-066-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.2	
7440-44-0	Total Organic Carbon, Replicate 2	2.1	
7440-44-0	Total Organic Carbon, Replicate 3	2.1	
7440-44-0	Total Organic Carbon, Replicate 4	2.1	
7440-44-0	Total Organic Carbon, Average	2.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-005-067-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.4	
7440-44-0	Total Organic Carbon, Replicate 2	3.4	
7440-44-0	Total Organic Carbon, Replicate 3	3.4	
7440-44-0	Total Organic Carbon, Replicate 4	3.4	
7440-44-0	Total Organic Carbon, Average	3.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-005-067-1/1MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.4	
7440-44-0	Total Organic Carbon, Replicate 2	6.4	
7440-44-0	Total Organic Carbon, Average	6.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-006-068-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	14.8	
7440-44-0	Total Organic Carbon, Replicate 2	14.3	
7440-44-0	Total Organic Carbon, Replicate 3	14.2	
7440-44-0	Total Organic Carbon, Replicate 4	14.1	
7440-44-0	Total Organic Carbon, Average	14.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-007-068-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.6	
7440-44-0	Total Organic Carbon, Replicate 2	2.6	
7440-44-0	Total Organic Carbon, Replicate 3	2.5	
7440-44-0	Total Organic Carbon, Replicate 4	2.5	
7440-44-0	Total Organic Carbon, Average	2.6	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-008-080-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.9	
7440-44-0	Total Organic Carbon, Replicate 2	5.8	
7440-44-0	Total Organic Carbon, Replicate 3	5.8	
7440-44-0	Total Organic Carbon, Replicate 4	5.8	
7440-44-0	Total Organic Carbon, Average	5.8	

Qualifier Definitions

CH2M Hill Inc

Work Order: 903093

All Departments

U	Indicates that the compound was analyzed for but not detected
BQL	Below Quantitation Limit

Organics

B	Indicates that the analyte was found in the associated blank as well as in the sample
D	Indicates that the analyte was reported from a diluted analysis
E	Indicates that the concentration detected exceeded the calibration range of the instrument
J	Value is less than the reporting limit but greater than the MDL
P	Indicates that there is greater than 25% difference for detected pesticide/Arochlor results between the two GC columns

Metals

J	Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL
E	Indicates that the reported value is estimated because of the possible presence of interference (i.e. the serial dilution not within control limits)
H	Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit
D	Indicates that the analyte was reported from a diluted analysis
N	Spiked sample recovery not within control limits
*	Duplicate analysis not within control limits

Chain of Custody

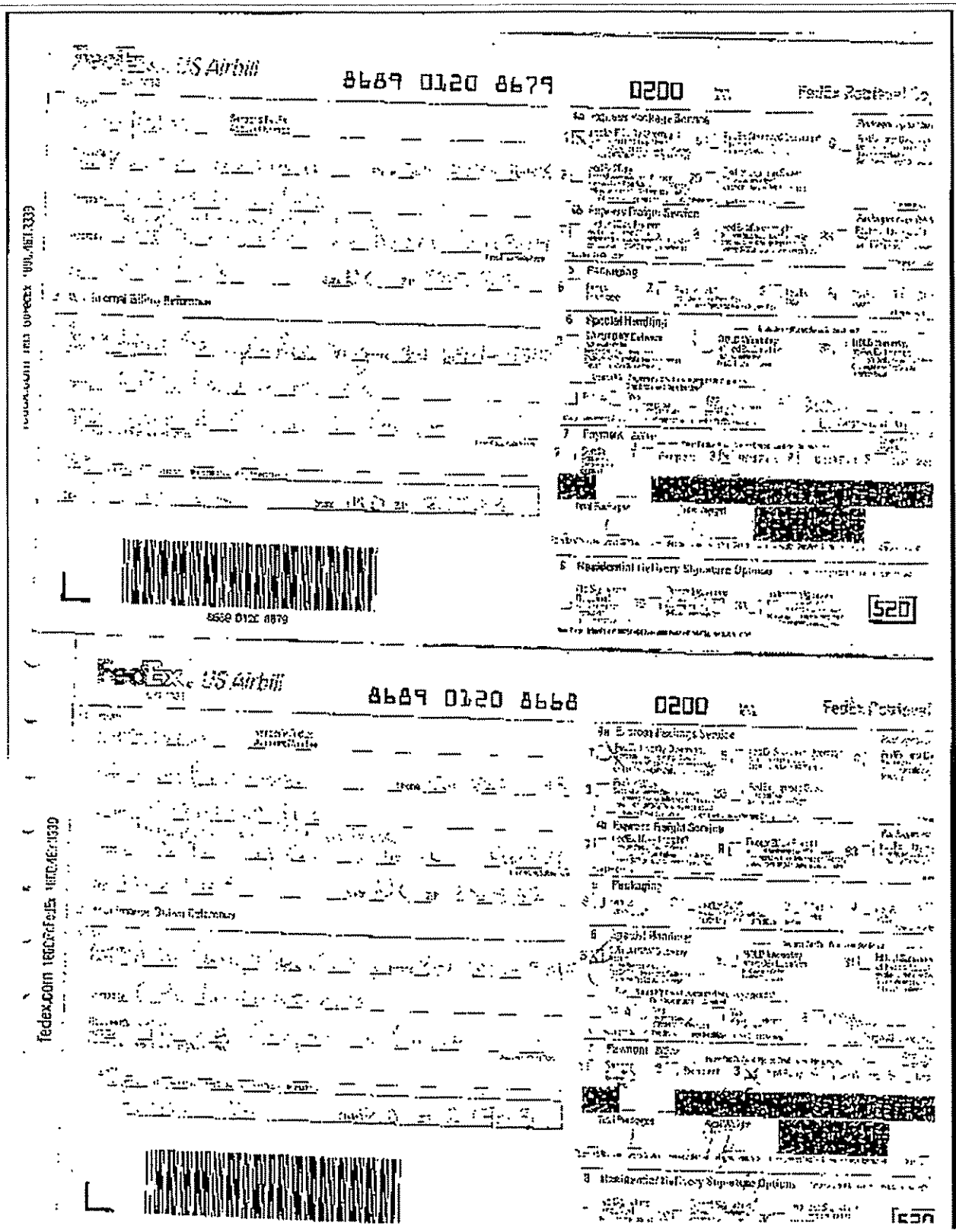
CH2M Hill Inc

SDG: 903093

Chain of Custody

CH2M Hill Inc

SDG: 903093



GPL Laboratories, LLLP

Figure 3

Sample Preservation Check Documentation Form

Work Order: 903093

Parameter / Preservative / pH Value	Metals (*A) HNO3 <2	Phenol H2SO4 <2	TPH G&G H2SO4 <2	Classical Parameters H2SO4 <2	Cyanide NaOH >12	Sulfide NaOH >9	Radiology (*B) HNO3 <2	Other Preservate Adjustment	Reagent Lot #	see checklist for comments
GPL ID										
OUI-MW38-0309				✓		✓		Y N		
OUE-MW39-0309				✓		✓		Y N		
OUI-166W32-0309				✓		✓		Y N		
OUI-166W26-0309				✓		✓		Y N		
OUI-166W28-0309				✓		✓		Y N		
OUI-166W29-0309				✓		✓		Y N		
OUI-166W34-0309				✓		✓		Y N		
OUI-166W35-0309				✓		✓		Y N		
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								Y N		
								Y N		
								Y N		

(*A) If drinking water metals sample is acidified in the laboratory
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.
(*B) If Radiochemistry sample is acidified in the laboratory.
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.
Tritium analysis should NOT be preserved

Sample Preservation Check Performed By: [signature] Date: 3-14-09

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903093 Carrier Name: Fed ex

Client Name: CH2M Hill Prepared (Logged In) By: PM 3-14-09

Date Received: 3-14-09 Project:

Time Received: 11:00 Site:

Received By: Pat VOA Holding Blank ID No:

	YES	NO		YES	NO
Airbill/Manifest Present? No: 8689 0120 8679	✓		Trip Blanks Received? No. of Sets 2	✓	
Shipping Container in Good Condition?	✓		VOA Vials Have Zero Headspace?	✓	
Custody Seals Present on Shipping Container?	✓		Preservatives Added to Samples?	✓	
Condition: Good ✓ Broken			pH Check Required?	✓	
Chain of Custody Present?	✓		Performed By: PM		
Chain of Custody Agrees with Sample Labels?	✓		Ice Present in Shipping Container?	✓	
Chain of Custody Signed?	✓				
Packing Present in Shipping Container?	✓		Container # / Temperature		
Type of Packing bubble wrap			2 / 4		
Custody Seals on Sample Bottles?	✓				
Condition: Good ✓ Broken					
Total Number of Sample Bottles 10	✓				
Total Number of Samples 10	✓				
Samples Intact?	✓				
Sufficient Sample Volume for Indicated Test?	✓				

Project Manager Contacted?

Name: Garth

Date Contacted: 3-16-09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: Out-16629-0309 time is 12:50 on the chain but time is 12:40 on the bottles

Checklist Completed By: Pat

Date: 3-14-09

VOLATILE ORGANICS

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903093

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108853	98	105	107	116
BLK108853	97	104	103	110
OU1-16GW06-0309	93	103	101	113
OU1-16GW28-0309	94	103	103	114
OU1-16GW29-0309	93	106	99	118
OU1-16GW32-0309	95	102	107	114
OU1-16GW34-0309	93	104	106	116
OU1-16GW35-0309	97	104	100	118
OU1-MW38-0309	95	106	103	117
OU1-MW39-0309	95	105	105	114
OU1-TB06-0309	93	102	101	116

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903093

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108855	99	99	104	121
BLK108855	91	106	101	113
OU1-16GW06-0309DL	95	96	88	116
OU1-TB07-0309	96	104	103	117

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1-Trichloroethane	50	50	0.0	68	69	136	138	1	25	50-149
1,1,2,2-Tetrachloroethane	50	50	0.0	52	54	104	108	4	25	70-120
1,1,2-Trichloroethane	50	50	0.0	62	62	124	124	0	25	61-146
1,1-Dichloroethane	50	50	0.0	62	64	124	128	3	25	63-135
1,1-Dichloroethene	50	50	0.0	60	68	120	138 *	14	25	59-130
1,2,4-Trichlorobenzene	50	50	0.0	67	72	134 *	144 *	7	25	56-132
1,2-Dibromo-3-Chloropropane	50	50	0.0	47	54	94	108	14	25	20-154
1,2-Dichlorobenzene	50	50	0.0	66	68	132	136 *	3	25	79-133
1,2-Dichloroethane	50	50	0.0	56	55	112	110	2	25	47-158
1,2-Dichloropropane	50	50	0.0	56	60	112	120	7	25	72-133
1,3-Dichlorobenzene	50	50	0.0	69	70	138 *	140 *	1	25	78-130
1,4-Dichlorobenzene	50	50	0.0	68	69	136 *	138 *	1	25	75-134
2-Butanone	100	100	0.0	93	98	93	98	5	25	70-125
2-Hexanone	100	100	0.0	94	96	94	96	2	25	49-150
4-Methyl-2-Pentanone	100	100	0.0	95	99	95	99	4	25	70-120
Acetone	100	100	0.0	88	93	88	93	6	25	56-152
Benzene	50	50	0.0	53	54	106	108	2	25	74-130
Bromodichloromethane	50	50	0.0	58	61	116	122	5	25	57-149

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Bromoform	50	50	0.0	63	64	126	128 *	2	25	62-127
Bromomethane	50	50	0.0	150	100	300 *	200 *	40 *	25	41-140
Carbon Disulfide	50	50	0.0	51	54	102	108	6	25	57-152
Carbon Tetrachloride	50	50	0.0	78	80	156 *	160 *	3	25	48-149
Chlorobenzene	50	50	180	220	250	80	140 *	55 *	25	75-130
Chloroethane	50	50	0.0	120	95	240 *	190 *	23	25	61-140
Chloroform	50	50	0.0	60	62	120	126	5	25	62-131
Chloromethane	50	50	0.0	46	52	92	104	12	25	39-148
Cyclohexane	50	50	0.0	61	63	122 *	126 *	3	25	50-120
Dibromochloromethane	50	50	0.0	59	59	118	118	0	25	55-139
Dichlorodifluoromethane	50	50	18	70	79	104	122 *	16	25	42-114
Ethylbenzene	50	50	0.0	54	53	108	106	2	25	76-139
Ethylene DiBromide	50	50	0.0	52	53	104	106	2	25	57-129
Freon 113	50	50	0.0	84	92	168 *	184 *	9	25	70-120
Isopropylbenzene	50	50	0.0	59	60	118	120	2	25	68-132
Methyl Acetate	50	50	0.0	54	56	108	112	4	25	50-120
Methylcyclohexane	50	50	0.0	78	82	156 *	164 *	5	25	50-120
Methylene Chloride	50	50	4.0	51	59	94	110	16	25	60-126

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL_FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Styrene	50	50	0.0	55	54	108	108	0	25	45-152
Tetrachloroethylene	50	50	0.0	69	68	138	136	1	25	43-147
Toluene	50	50	0.0	64	64	128	130	2	25	70-133
Total Xylenes	150	150	0.0	170	170	113	113	0	25	70-120
Trichloroethene	50	50	0.0	54	57	106	114	7	25	62-137
Trichlorofluoromethane	50	50	0.0	68	110	136	220 *	47 *	25	27-149
Vinyl Chloride	50	50	0.0	50	49	100	98	2	25	64-158
cis-1,2-Dichloroethene	50	50	1.9	58	60	112	116	4	25	48-144
cis-1,3-Dichloropropene	50	50	0.0	58	58	114	116	2	25	62-126
tert-butyl methyl ether	50	50	0.0	63	67	126	134 *	6	25	50-128
trans-1,2-dichloroethene	50	50	3.7	62	69	117	131 *	11	25	64-125
trans-1,3-dichloropropene	50	50	0.0	61	61	120	122 *	2	25	65-121

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108853

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108853
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	56	112	80-130
1,1,1-Trichloroethane	50	0	58	116	65-130
1,1,2,2-Tetrachloroethane	50	0	47	94	65-130
1,1,2-Trichloroethane	50	0	56	112	75-125
1,1-Dichloroethane	50	0	57	114	70-135
1,1-Dichloroethene	50	0	56	112	70-130
1,1-Dichloropropene	50	0	48	96	75-130
1,2,3-Trichlorobenzene	50	0	63	126	55-140
1,2,3-Trichloropropane	50	0	52	104	75-125
1,2,4-Trichlorobenzene	50	0	58	116	65-135
1,2,4-Trimethylbenzene	50	0	51	102	75-130
1,2-Dibromo-3-Chloropropane	50	0	51	102	50-130
1,2-Dichlorobenzene	50	0	56	112	70-120
1,2-Dichloroethane	50	0	50	100	70-130
1,2-Dichloropropane	50	0	45	90	75-125
1,3,5-trimethylbenzene	50	0	50	100	75-130
1,3-Dichlorobenzene	50	0	59	118	75-125
1,3-Dichloropropane	50	0	47	94	75-125
1,4-Dichlorobenzene	50	0	59	118	75-125
2,2-Dichloropropane	50	0	47	94	70-135
2-Butanone	100	0	85	85	30-150
2-Chlorotoluene	50	0	54	108	75-125
2-Hexanone	100	0	86	86	55-130
4-Chlorotoluene	50	0	54	108	75-130
4-Isopropyltoluene	50	0	57	114	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108853

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108853
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	86	86	60-135
Acetone	100	0	83	83	40-140
Benzene	50	0	46	92	80-120
Bromobenzene	50	0	59	118	75-125
Bromochloromethane	50	0	67	134 *	65-130
Bromodichloromethane	50	0	48	96	75-120
Bromoform	50	0	54	108	70-130
Bromomethane	50	0	93	186 *	30-145
Carbon Disulfide	50	0	49	98	35-160
Carbon Tetrachloride	50	0	64	128	65-140
Chlorobenzene	50	0	50	100	80-120
Chloroethane	50	0	79	158 *	60-135
Chloroform	50	0	54	108	65-135
Chloromethane	50	0	46	92	40-125
Cyclohexane	50	0	49	98	50-120
Dibromochloromethane	50	0	53	106	60-135
Dibromomethane	50	0	49	98	75-125
Dichlorodifluoromethane	50	0	45	90	30-155
Ethylbenzene	50	0	46	92	75-125
Ethylene DiBromide	50	0	47	94	80-120
Freon 113	50	0	69	138 *	70-130
Hexachlorobutadiene	50	0	62	124	50-140
Isopropylbenzene	50	0	50	100	75-125
Methyl Acetate	50	0	41	82	50-120
Methylcyclohexane	50	0	53	106	50-120

* Values Outside of QC Limits.

Spike recovery : 4 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108853

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108853
Analysis Date : 03/25/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	47	94	55-140
Naphthalene	50	0	60	120	55-140
Sec-Butylbenzene	50	0	51	102	70-125
Styrene	50	0	49	98	65-135
Tetrachloroethylene	50	0	80	160 *	45-150
Toluene	50	0	54	108	75-120
Trichloroethene	50	0	48	96	70-125
Trichlorofluoromethane	50	0	77	154 *	60-145
Vinyl Acetate	50	0	30	60	41-139
Vinyl Chloride	50	0	43	86	50-145
cis-1,2-Dichloroethene	50	0	50	100	70-125
cis-1,3-Dichloropropene	50	0	47	94	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	48	96	70-135
n-Propylbenzene	50	0	48	96	70-130
o-Xylene	50	0	49	98	80-120
tert-Butylbenzene	50	0	55	110	70-130
tert-butyl methyl ether	50	0	59	118	65-125
trans-1,2-dichloroethene	50	0	55	110	60-140
trans-1,3-dichloropropene	50	0	51	102	55-140

* Values Outside of QC Limits.

Spike recovery : 2 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108855

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108855
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	53	106	80-130
1,1,1-Trichloroethane	50	0	55	110	65-130
1,1,2,2-Tetrachloroethane	50	0	42	84	65-130
1,1,2-Trichloroethane	50	0	45	90	75-125
1,1-Dichloroethane	50	0	52	104	70-135
1,1-Dichloroethene	50	0	50	100	70-130
1,1-Dichloropropene	50	0	41	82	75-130
1,2,3-Trichlorobenzene	50	0	56	112	55-140
1,2,3-Trichloropropane	50	0	45	90	75-125
1,2,4-Trichlorobenzene	50	0	56	112	65-135
1,2,4-Trimethylbenzene	50	0	49	98	75-130
1,2-Dibromo-3-Chloropropane	50	0	36	72	50-130
1,2-Dichlorobenzene	50	0	55	110	70-120
1,2-Dichloroethane	50	0	41	82	70-130
1,2-Dichloropropane	50	0	45	90	75-125
1,3,5-trimethylbenzene	50	0	48	96	75-130
1,3-Dichlorobenzene	50	0	57	114	75-125
1,3-Dichloropropane	50	0	43	86	75-125
1,4-Dichlorobenzene	50	0	56	112	75-125
2,2-Dichloropropane	50	0	48	96	70-135
2-Butanone	100	0	65	65	30-150
2-Chlorotoluene	50	0	53	106	75-125
2-Hexanone	100	0	70	70	55-130
4-Chlorotoluene	50	0	53	106	75-130
4-Isopropyltoluene	50	0	56	112	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108855

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108855
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	76	76	60-135
Acetone	100	0	73	73	40-140
Benzene	50	0	39	78 *	80-120
Bromobenzene	50	0	55	110	75-125
Bromochloromethane	50	0	63	126	65-130
Bromodichloromethane	50	0	45	90	75-120
Bromoform	50	0	51	102	70-130
Bromomethane	50	0	130	260 *	30-145
Carbon Disulfide	50	0	44	88	35-160
Carbon Tetrachloride	50	0	58	116	65-140
Chlorobenzene	50	0	48	96	80-120
Chloroethane	50	0	47	94	60-135
Chloroform	50	0	50	100	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	46	92	50-120
Dibromochloromethane	50	0	48	96	60-135
Dibromomethane	50	0	47	94	75-125
Dichlorodifluoromethane	50	0	46	92	30-155
Ethylbenzene	50	0	44	88	75-125
Ethylene DiBromide	50	0	42	84	80-120
Freon 113	50	0	62	124	70-130
Hexachlorobutadiene	50	0	57	114	50-140
Isopropylbenzene	50	0	48	96	75-125
Methyl Acetate	50	0	34	68	50-120
Methylcyclohexane	50	0	58	116	50-120

* Values Outside of QC Limits.

Spike recovery : 2 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108855

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903093
Lab Sample ID : BKS108855
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	44	88	55-140
Naphthalene	50	0	50	100	55-140
Sec-Butylbenzene	50	0	49	98	70-125
Styrene	50	0	46	92	65-135
Tetrachloroethylene	50	0	56	112	45-150
Toluene	50	0	48	96	75-120
Trichloroethene	50	0	44	88	70-125
Trichlorofluoromethane	50	0	50	100	60-145
Vinyl Acetate	50	0	27	54	41-139
Vinyl Chloride	50	0	42	84	50-145
cis-1,2-Dichloroethene	50	0	46	92	70-125
cis-1,3-Dichloropropene	50	0	45	90	70-130
m,p-Xylene	100	0	97	97	75-130
n-Butylbenzene	50	0	46	92	70-135
n-Propylbenzene	50	0	46	92	70-130
o-Xylene	50	0	47	94	80-120
tert-Butylbenzene	50	0	52	104	70-130
tert-butyl methyl ether	50	0	52	104	65-125
trans-1,2-dichloroethene	50	0	50	100	60-140
trans-1,3-dichloropropene	50	0	44	88	55-140

* Values Outside of QC Limits.

Spike recovery : 0 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Lab File ID :	A62541.D	SDG NO :	903093
Date Analyzed	03/25/2009	Lab Sample ID :	BLK108853
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	23:20

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108853	BKS108853	A62539.D	22:40
OU1-16GW06-0309	903093-004-010-1/3	A62553.D	03:21
OU1-16GW28-0309	903093-005-013-1/3	A62555.D	04:02
OU1-16GW29-0309	903093-006-016-1/3	A62557.D	04:42
OU1-16GW32-0309	903093-003-007-1/3	A62551.D	02:41
OU1-16GW34-0309	903093-007-019-1/3	A62559.D	05:23
OU1-16GW35-0309	903093-008-022-1/3	A62561.D	06:03
OU1-MW38-0309	903093-001-001-1/3	A62547.D	01:21
OU1-MW39-0309	903093-002-004-1/3	A62549.D	02:01
OU1-TB06-0309	903093-009-025-1/3	A62563.D	06:44

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Lab File ID :	A62571.D	SDG NO :	903093
Date Analyzed	03/26/2009	Lab Sample ID :	BLK108855
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:13

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108855	BKS108855	A62569.D	10:32
OU1-16GW06-0309DL	903093-004-011-2/3	A62573.D	12:13
OU1-TB07-0309	903093-010-028-1/3	A62575.D	12:53

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : General Physics Corp.

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903020

Lab File ID: A62205.D BFB Injection Date : 03/10/2009 BFB Injection Time : 07:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.6	(.8)1
174	50.0 - 120.0% of mass 95	79.6	
175	5.0 - 9.0% of mass 174	5.9	(7.4)1
176	95.0 - 101.0% of mass 174	77.5	(97.3)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL01	CAL01	A62207.D	03/10/2009	08:49
2	CAL05	CAL05	A62209.D	03/10/2009	09:30
3	CAL20	CAL20	A62211.D	03/10/2009	11:03
4	CAL50	CAL50	A62213.D	03/10/2009	11:44
5	CAL100	CAL100	A62215.D	03/10/2009	12:49
6	CAL200	CAL200	A62219.D	03/10/2009	14:22
7	BLK108667	BLK108667	A62221.D	03/10/2009	15:35
8	BKS108667	BKS108667	A62223.D	03/10/2009	16:25
9	TB-030409	903020-001-001-1/2	A62225.D	03/10/2009	17:06
10	EFFg-030409	903020-004-003-1/3	A62227.D	03/10/2009	17:46
11	ACU2-030409	903020-005-006-1/3	A62229.D	03/10/2009	18:27
12	ACU1-030409	903020-006-009-1/3	A62231.D	03/10/2009	19:08

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903093

Lab File ID: A62535.D BFB Injection Date : 03/25/2009 BFB Injection Time : 21:19

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	20.9	
75	30.0 - 60.0% of mass 95	47.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	1.6	(1.6)1
174	50.0 - 120.0% of mass 95	97.8	
175	5.0 - 9.0% of mass 174	7.7	(7.9)1
176	95.0 - 101.0% of mass 174	96.3	(98.4)1
177	5.0 - 9.0% of mass 176	5.8	(6.0)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62537.D	03/25/2009	22:00
2	BKS108853	BKS108853	A62539.D	03/25/2009	22:40
3	BLK108853	BLK108853	A62541.D	03/25/2009	23:20
4	OU1-MW38-0309	903093-001-001-1/3	A62547.D	03/26/2009	01:21
5	OU1-MW39-0309	903093-002-004-1/3	A62549.D	03/26/2009	02:01
6	OU1-16GW32-0309	903093-003-007-1/3	A62551.D	03/26/2009	02:41
7	OU1-16GW06-0309	903093-004-010-1/3	A62553.D	03/26/2009	03:21
8	OU1-16GW28-0309	903093-005-013-1/3	A62555.D	03/26/2009	04:02
9	OU1-16GW29-0309	903093-006-016-1/3	A62557.D	03/26/2009	04:42
10	OU1-16GW34-0309	903093-007-019-1/3	A62559.D	03/26/2009	05:23
11	OU1-16GW35-0309	903093-008-022-1/3	A62561.D	03/26/2009	06:03
12	OU1-TB06-0309	903093-009-025-1/3	A62563.D	03/26/2009	06:44

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903093

Lab File ID: A62565.D BFB Injection Date : 03/26/2009 BFB Injection Time : 08:27

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.3	
75	30.0 - 60.0% of mass 95	53.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	1.0	(1.1)1
174	50.0 - 120.0% of mass 95	88.0	
175	5.0 - 9.0% of mass 174	7.4	(8.4)1
176	95.0 - 101.0% of mass 174	83.9	(95.3)1
177	5.0 - 9.0% of mass 176	5.7	(6.8)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62567.D	03/26/2009	09:20
2	BKS108855	BKS108855	A62569.D	03/26/2009	10:32
3	BLK108855	BLK108855	A62571.D	03/26/2009	11:13
4	OU1-16GW06-0309DL	903093-004-011-2/3	A62573.D	03/26/2009	12:13
5	OU1-TB07-0309	903093-010-028-1/3	A62575.D	03/26/2009	12:53

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903093

Lab File ID: A62537.D Date Analyzed: 03/25/2009 Time Analyzed: 22:00

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	387636	04.68	450122	07.78	426193	04.55
UPPER LIMIT	775272	05.18	900244	08.28	852386	05.05
LOWER LIMIT	193818	04.18	225061	07.28	213097	04.05
Client Sample						
BKS108853	421034	04.68	471849	07.78	458784	04.55
BLK108853	400418	04.68	437433	07.78	437432	04.55
OU1-16GW06-0309	355981	04.68	380492	07.78	382387	04.55
OU1-16GW28-0309	352372	04.68	380634	07.78	384154	04.55
OU1-16GW29-0309	339401	04.68	374601	07.78	369893	04.55
OU1-16GW32-0309	356528	04.68	385629	07.78	380259	04.55
OU1-16GW34-0309	339026	04.68	366562	07.78	361674	04.55
OU1-16GW35-0309	346398	04.68	372269	07.78	373168	04.55
OU1-MW38-0309	353801	04.68	386143	07.78	389421	04.55
OU1-MW39-0309	365589	04.68	395293	07.78	397338	04.55
OU1-TB06-0309	330360	04.68	353392	07.78	357577	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzen

AREA UPPER LIMIT = +100% of internal standard ar
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903093

Lab File ID: A62567.D Date Analyzed: 03/26/2009 Time Analyzed: 09:20

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	362227	04.68	433260	07.79	391514	04.56
UPPER LIMIT	724454	05.18	866520	08.29	783028	05.06
LOWER LIMIT	181114	04.18	216630	07.29	195757	04.06
Client Sample						
BKS108855	439401	04.68	456605	07.78	430569	04.56
BLK108855	334290	04.68	376962	07.78	365167	04.55
OU1-16GW06-0309DL	366916	04.68	368443	07.78	396549	04.56
OU1-TB07-0309	355289	04.68	381807	07.78	373285	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-001-1/3
Sample Volume :	5	Lab File ID :	A62547.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-001-1/3
Sample Volume :	5	Lab File ID :	A62547.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-001-1/3
Sample Volume :	5	Lab File ID :	A62547.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.2	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62547.D
Acq On : 26 Mar 2009 1:21
Operator : SM
Sample : 903093-001
Misc : OUI-MW38-0309,CH2M HILL,WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 27 15:51:31 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

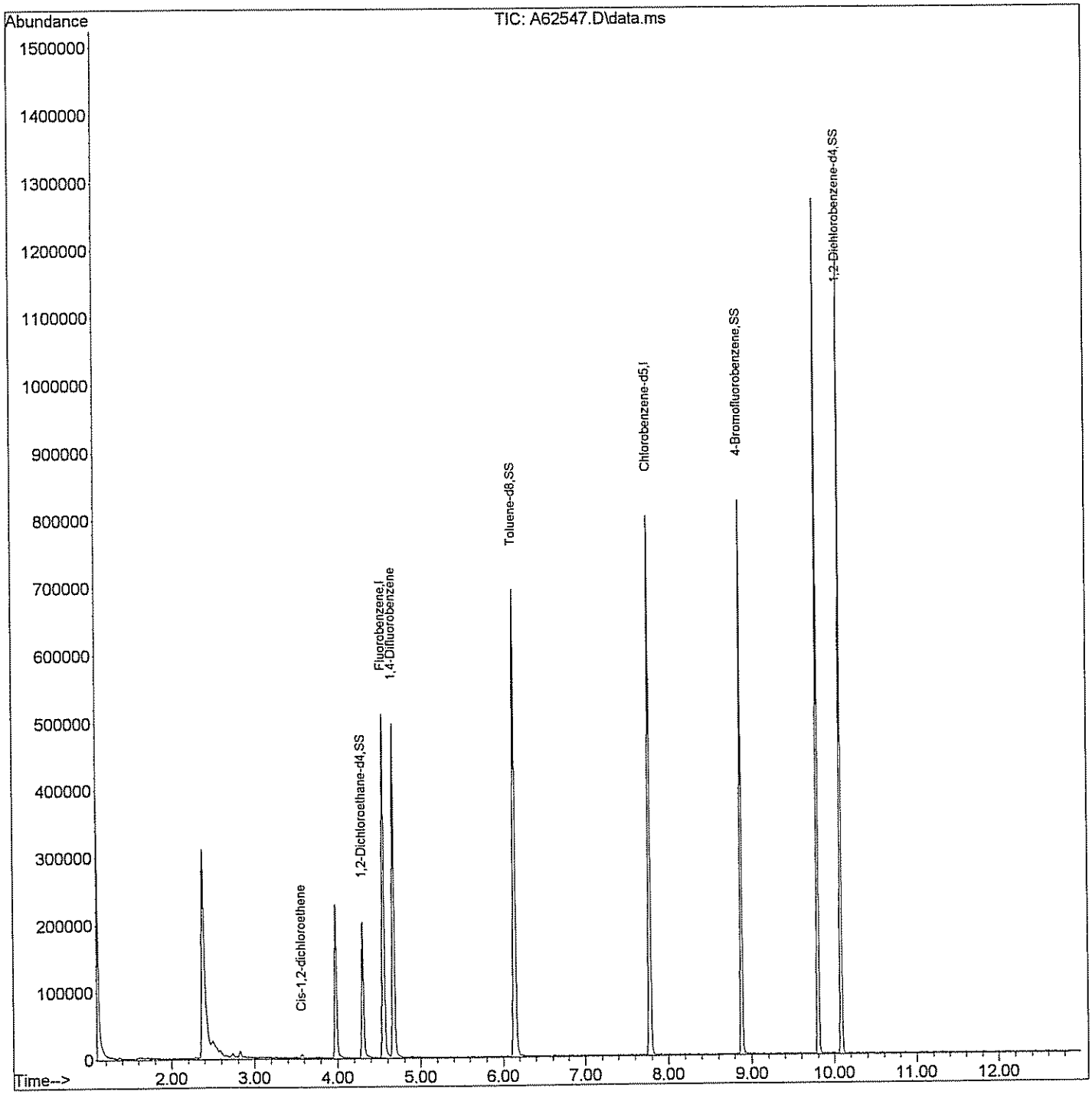
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	389421	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	353801	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	386143	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	106636	51.54	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.08%			
54) Toluene-d8	6.142	98	435538	53.13	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 106.26%			
76) 4-Bromofluorobenzene	8.881	95	172208	47.31	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.62%			
92) 1,2-Dichlorobenzene-d4	10.085	152	207967	58.26	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.52%			
Target Compounds						Qvalue
28) Cis-1,2-dichloroethene	3.569	96	2456	1.25	ug/L #	65

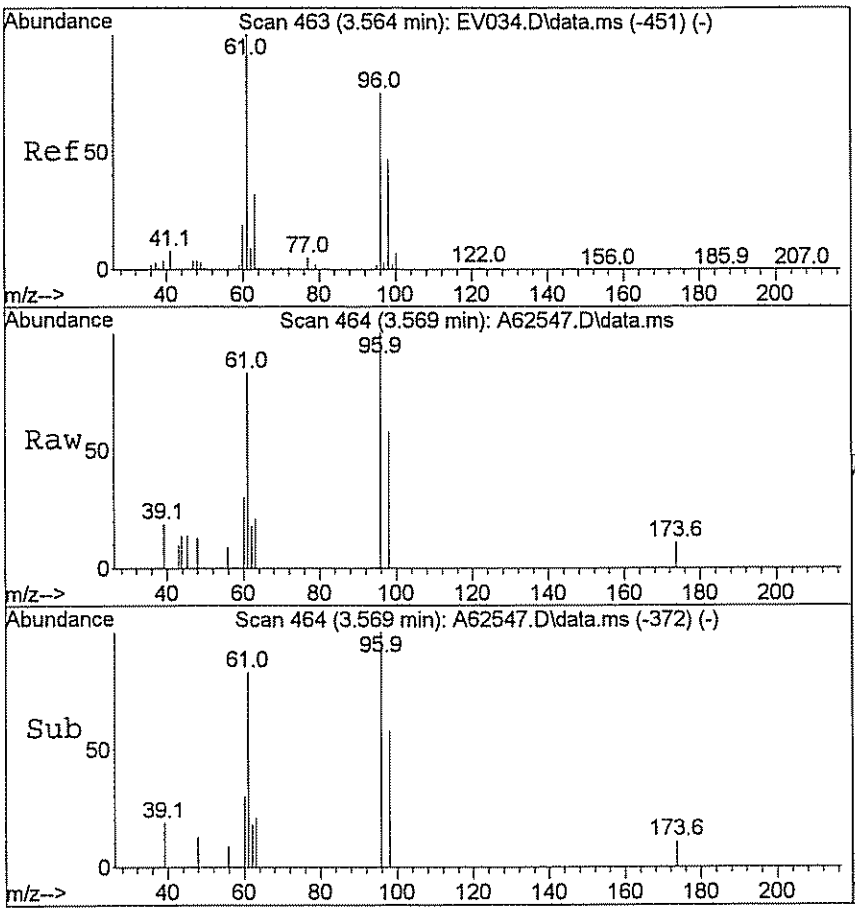
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62547.D
Acq On : 26 Mar 2009 1:21
Operator : SM
Sample : 903093-001
Misc : OUI-MW38-0309,CH2M HILL,WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 27 15:51:31 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

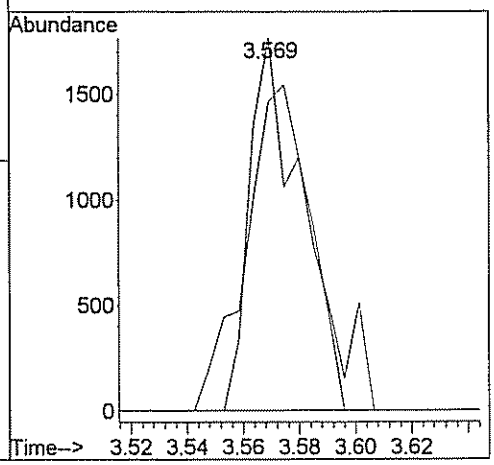




#28
Cis-1,2-dichloroethene
Concen: 1.25 ug/L
RT: 3.569 min Scan# 464
Delta R.T. -0.010 min
Lab File: A62547.D
Acq: 26 Mar 2009 1:21

Tgt Ion: 96 Resp: 2456

Ion	Ratio	Lower	Upper
96	100		
61	100.0	115.0	172.6#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-004-1/3
Sample Volume :	5	Lab File ID :	A62549.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-004-1/3
Sample Volume :	5	Lab File ID :	A62549.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.7	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-004-1/3
Sample Volume :	5	Lab File ID :	A62549.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	3.8	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	5.0	
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62549.D
Acq On : 26 Mar 2009 2:01
Operator : SM
Sample : 903093-002
Misc : OUI-MW39-0309,CH2M HILL,WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 27 15:49:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

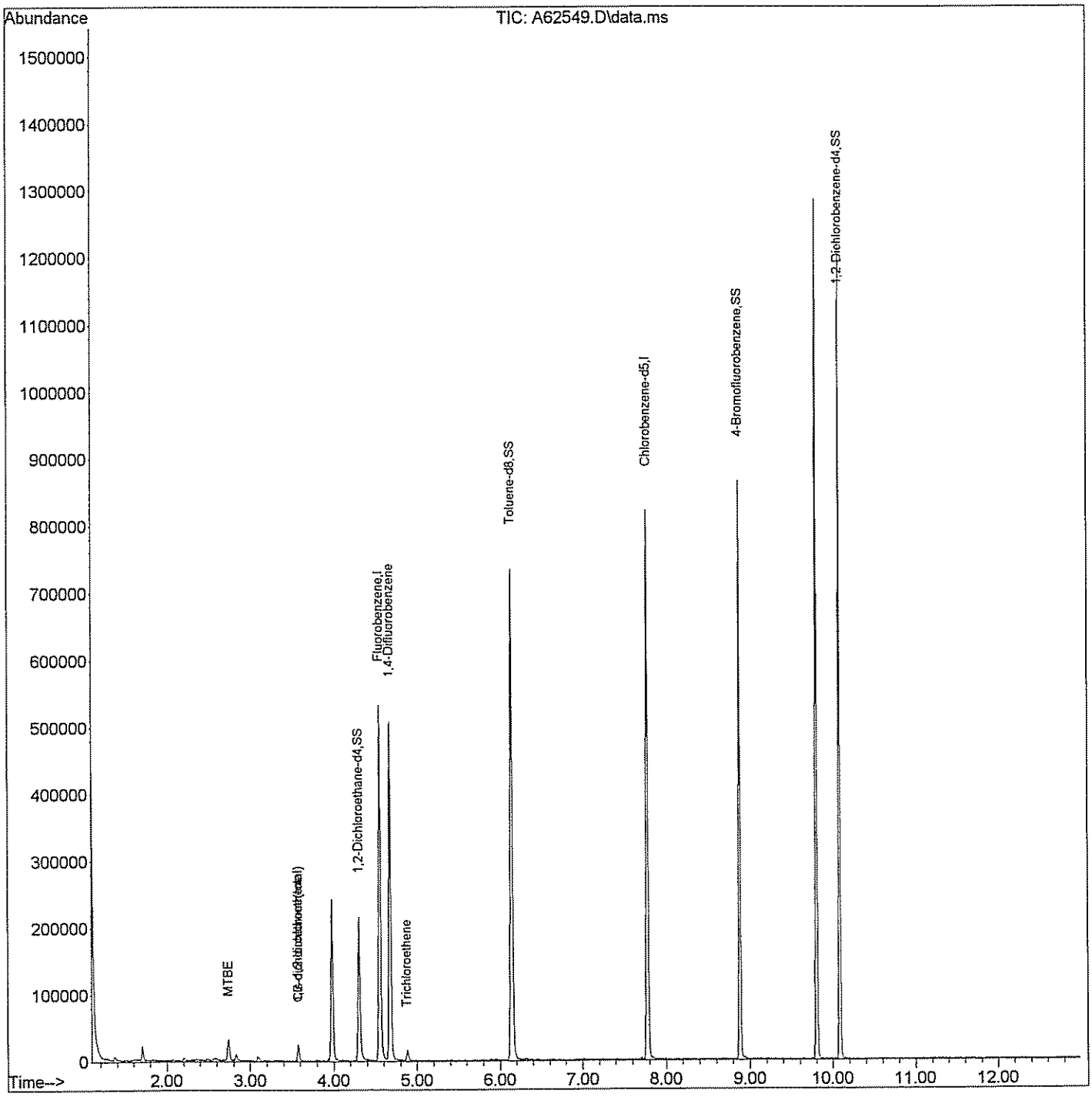
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	397338	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	365589	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	395293	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	111320	52.74	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 105.48%			
54) Toluene-d8	6.142	98	445139	52.55	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 105.10%			
76) 4-Bromofluorobenzene	8.881	95	176359	47.33	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.66%			
92) 1,2-Dichlorobenzene-d4	10.085	152	207816	56.87	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 113.74%			
Target Compounds						Qvalue
21) MTBE	2.740	73	21674	5.01	ug/L	100
28) Cis-1,2-dichloroethene	3.575	96	7620	3.79	ug/L	87
29) 1,2-dichloroethene(total)	3.575	96	8608m	4.04	ug/L	
47) Trichloroethene	4.880	95	3450	1.74	ug/L	90

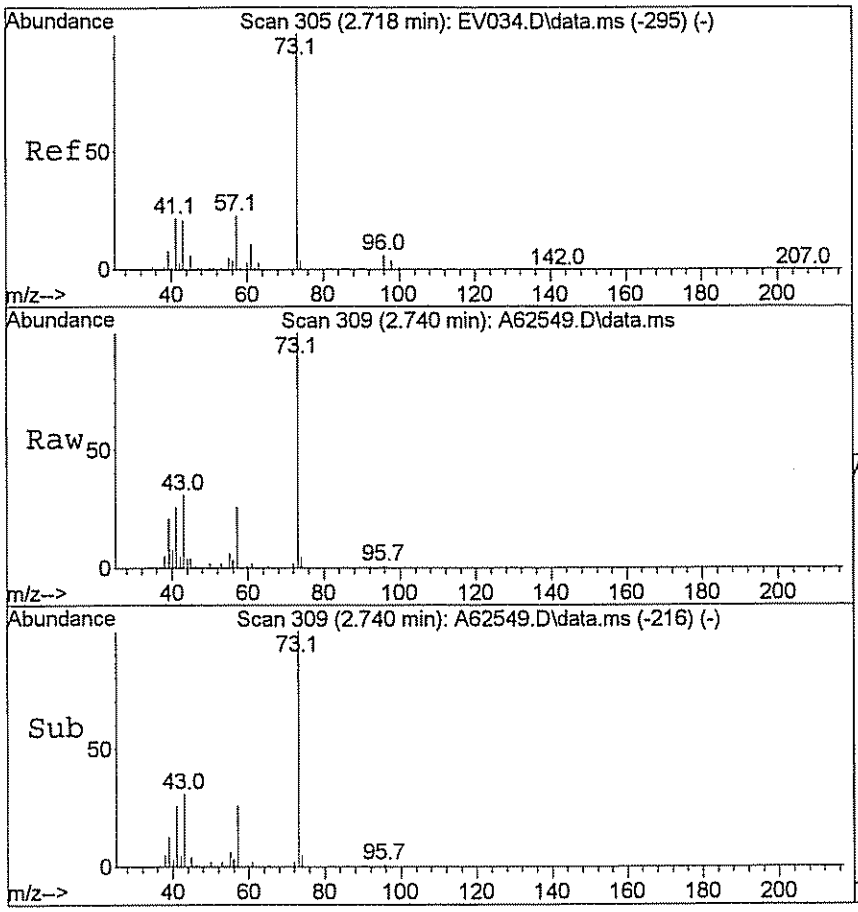
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62549.D
Acq On : 26 Mar 2009 2:01
Operator : SM
Sample : 903093-002
Misc : OUI-MW39-0309,CH2M HILL,WATER
ALS Vial : 25 Sample Multiplier: 1

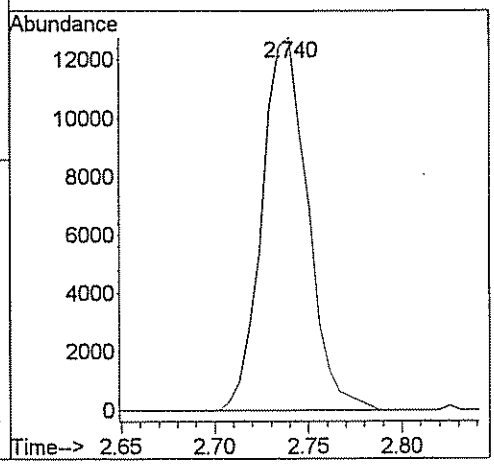
Quant Time: Mar 27 15:49:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

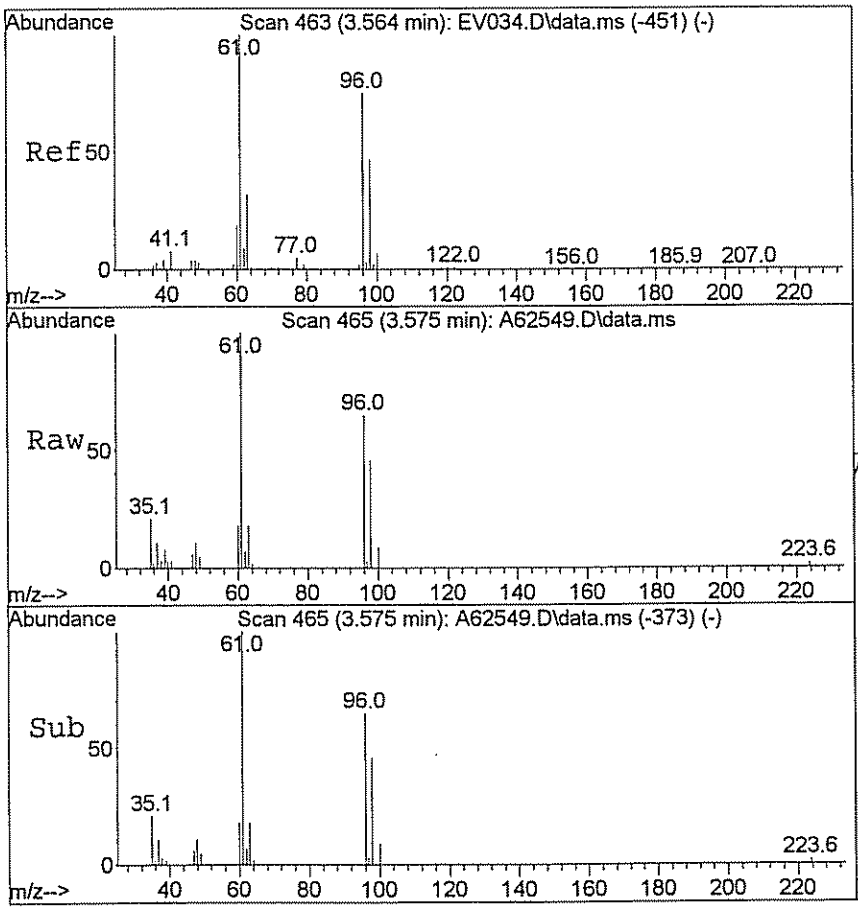




#21
MTBE
Concen: 5.01 ug/L
RT: 2.740 min Scan# 309
Delta R.T. 0.000 min
Lab File: A62549.D
Acq: 26 Mar 2009 2:01

Tgt Ion: 73 Resp: 21674

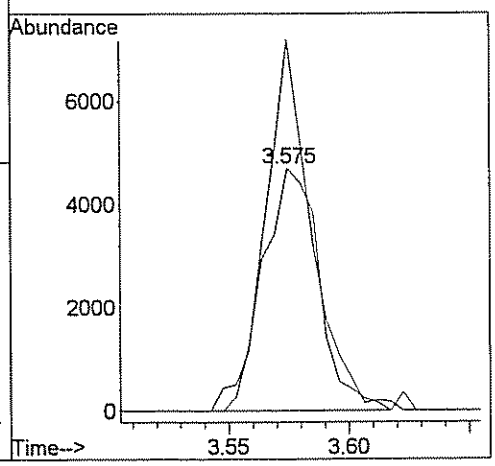


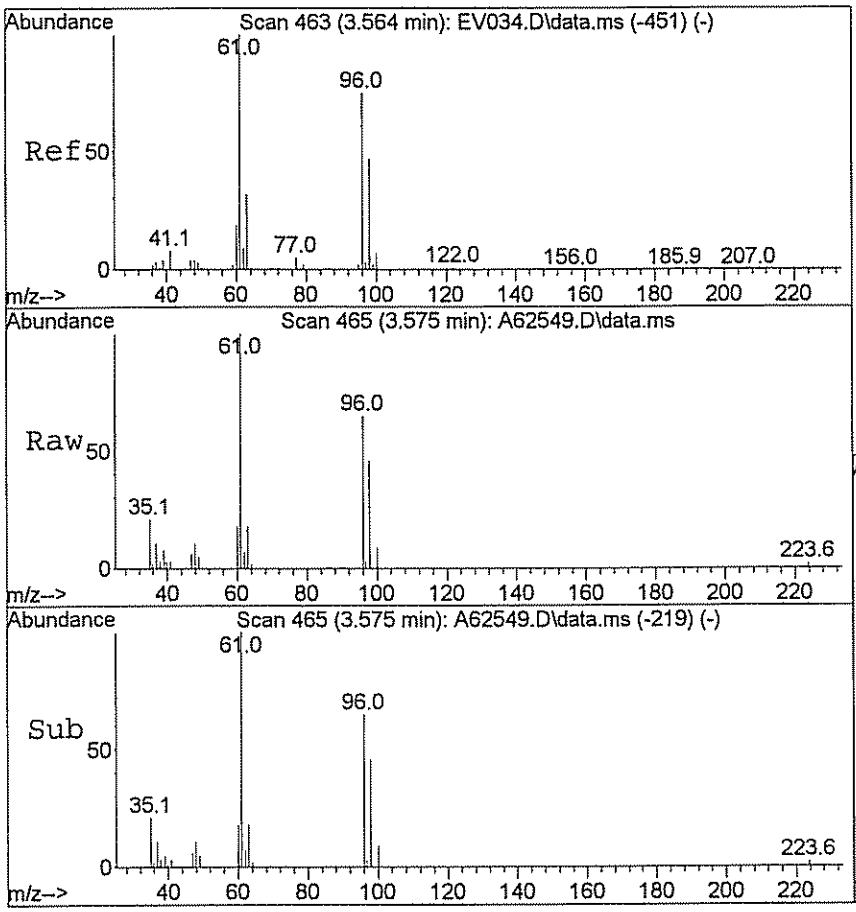


#28
Cis-1,2-dichloroethene
Concen: 3.79 ug/L
RT: 3.575 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62549.D
Acq: 26 Mar 2009 2:01

Tgt Ion: 96 Resp: 7620

Ion	Ratio	Lower	Upper
96	100		
61	127.1	115.0	172.6

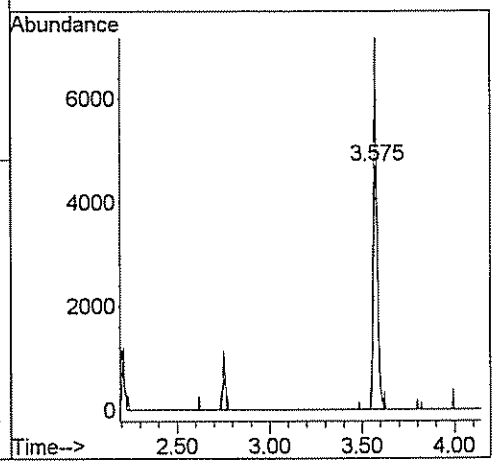


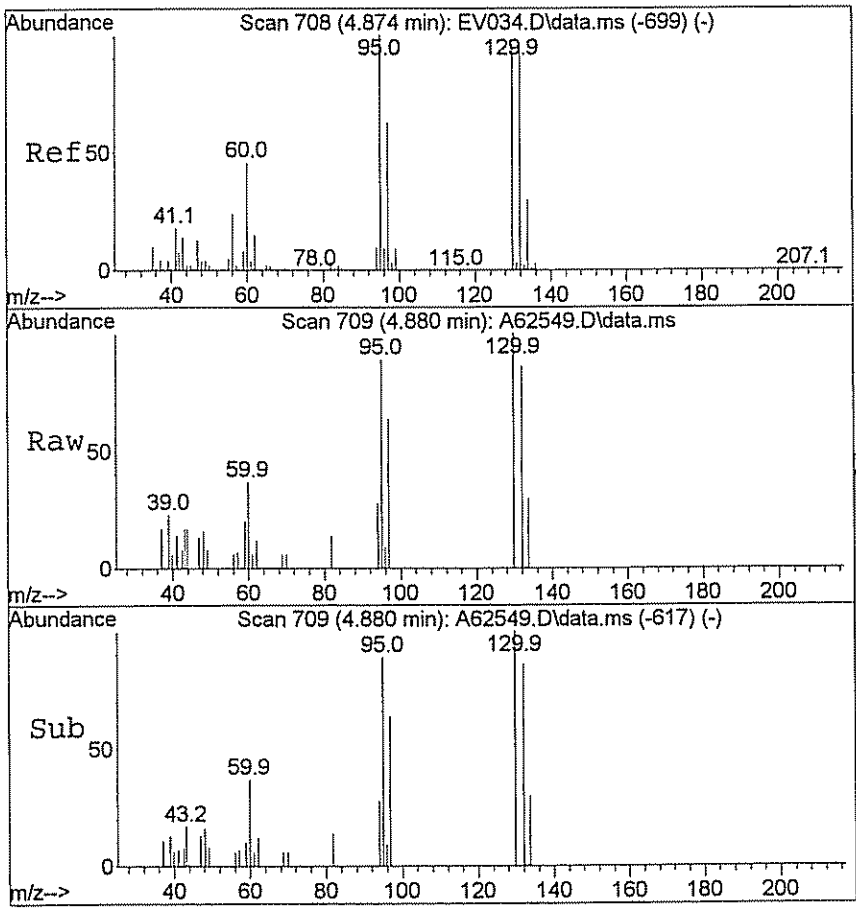


#29
1,2-dichloroethene(total)
Concen: 4.04 ug/L m
RT: 3.575 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62549.D
Acq: 26 Mar 2009 2:01

Tgt Ion: 96 Resp: 8608

Ion	Ratio	Lower	Upper
96	100		
61	13.0	115.0	172.6#

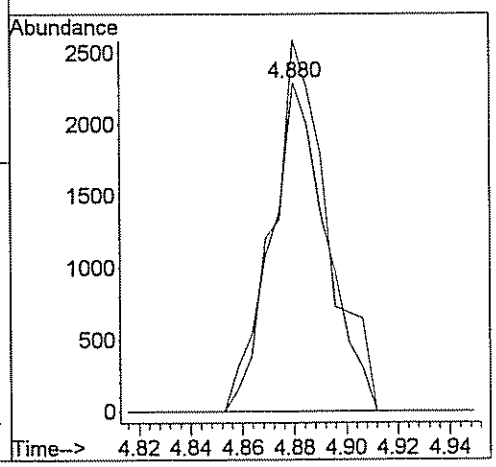




#47
Trichloroethene
Concen: 1.74 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62549.D
Acq: 26 Mar 2009 2:01

Tgt Ion: 95 Resp: 3450

Ion	Ratio	Lower	Upper
95	100		
130	109.6	79.7	119.5



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-007-1/3
Sample Volume :	5	Lab File ID :	A62551.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	71	
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-007-1/3
Sample Volume :	5	Lab File ID :	A62551.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	0.96	J
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-007-1/3
Sample Volume :	5	Lab File ID :	A62551.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	10	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62551.D
Acq On : 26 Mar 2009 2:41
Operator : SM
Sample : 903093-003
Misc : OUI-16GW32-0309,CH2M HILL,WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 27 15:47:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

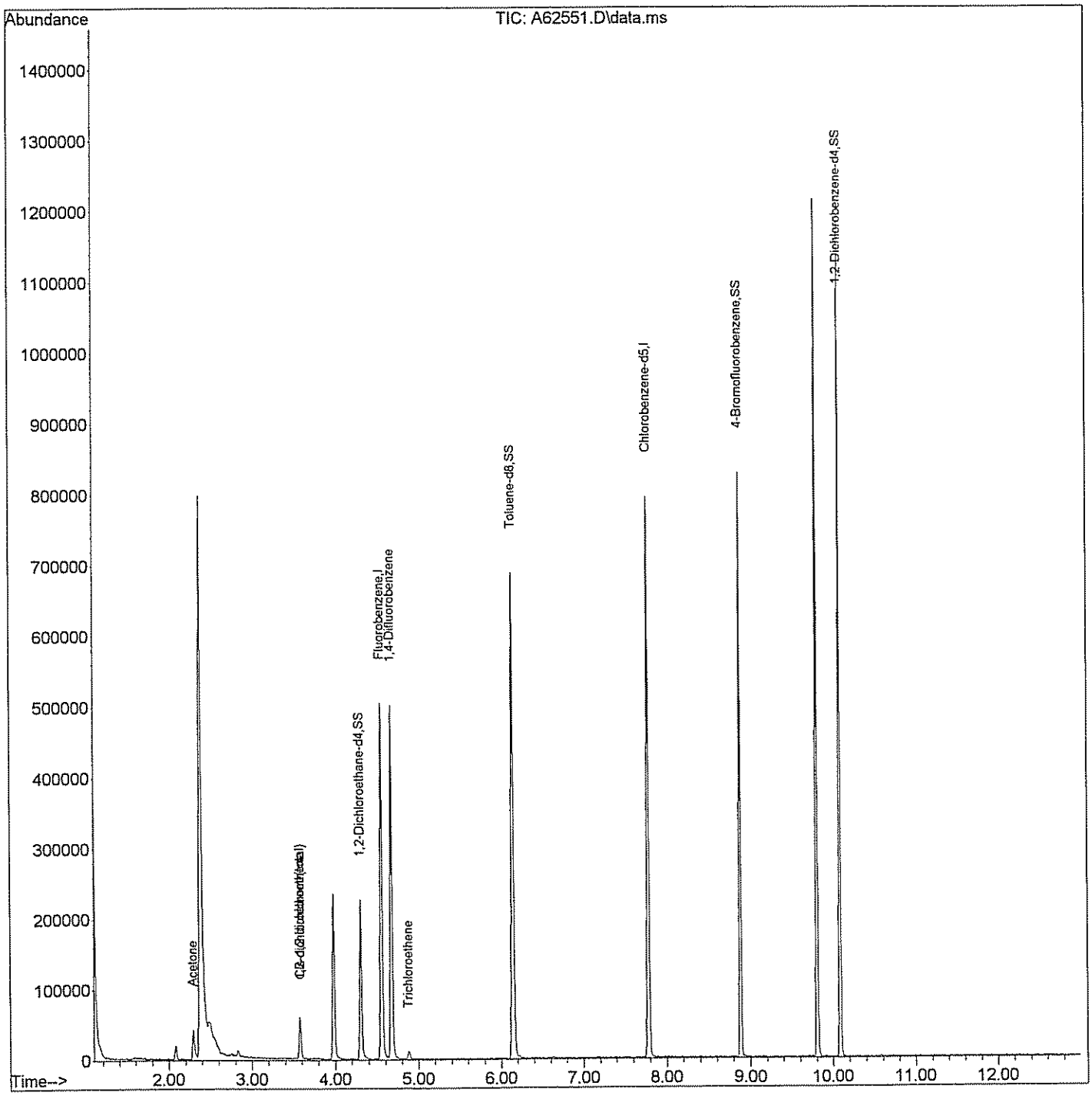
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	380259	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	356528	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	385629	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	107807	53.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.74%			
54) Toluene-d8	6.142	98	422683	51.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 102.32%			
76) 4-Bromofluorobenzene	8.881	95	173313	47.68	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.36%			
92) 1,2-Dichlorobenzene-d4	10.085	152	202377	56.77	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 113.54%			
Target Compounds						Qvalue
19) Acetone	2.296	43	45942	70.97	ug/L	94
28) Cis-1,2-dichloroethene	3.580	96	19259	10.00	ug/L	84
29) 1,2-dichloroethene(total)	3.580	96	20479m	10.05	ug/L	
47) Trichloroethene	4.885	95	1863	0.96	ug/L	# 11

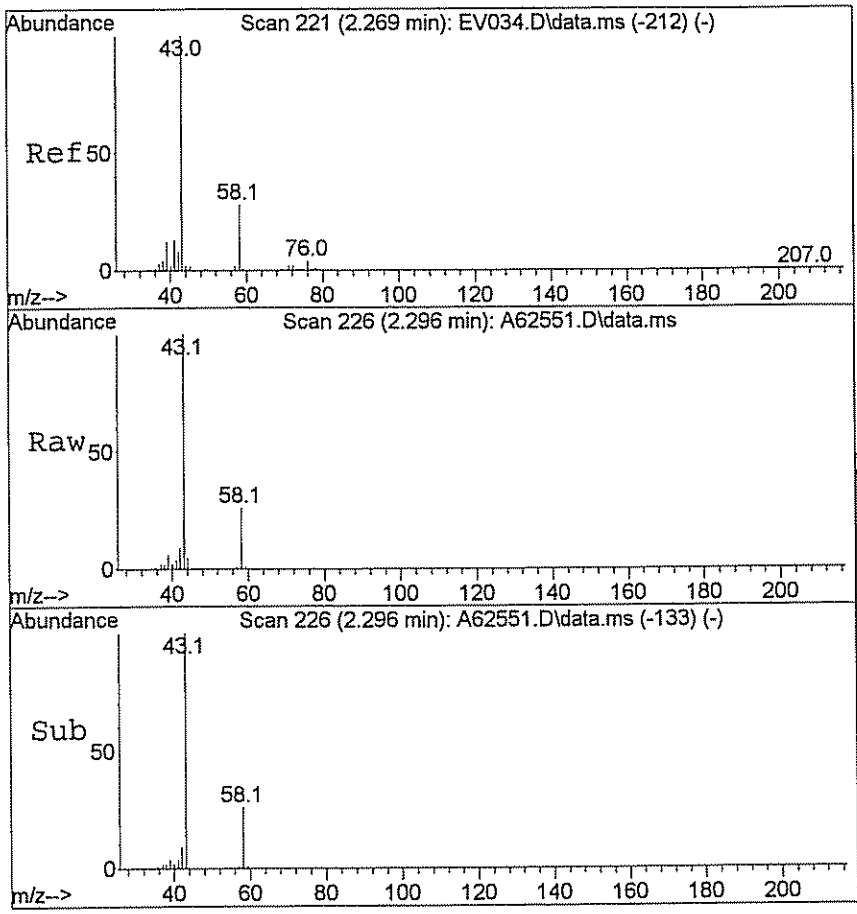
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62551.D
Acq On : 26 Mar 2009 2:41
Operator : SM
Sample : 903093-003
Misc : OUI-16GW32-0309,CH2M HILL,WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 27 15:47:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

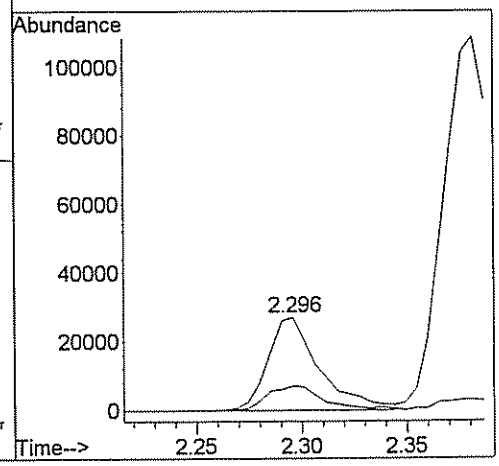


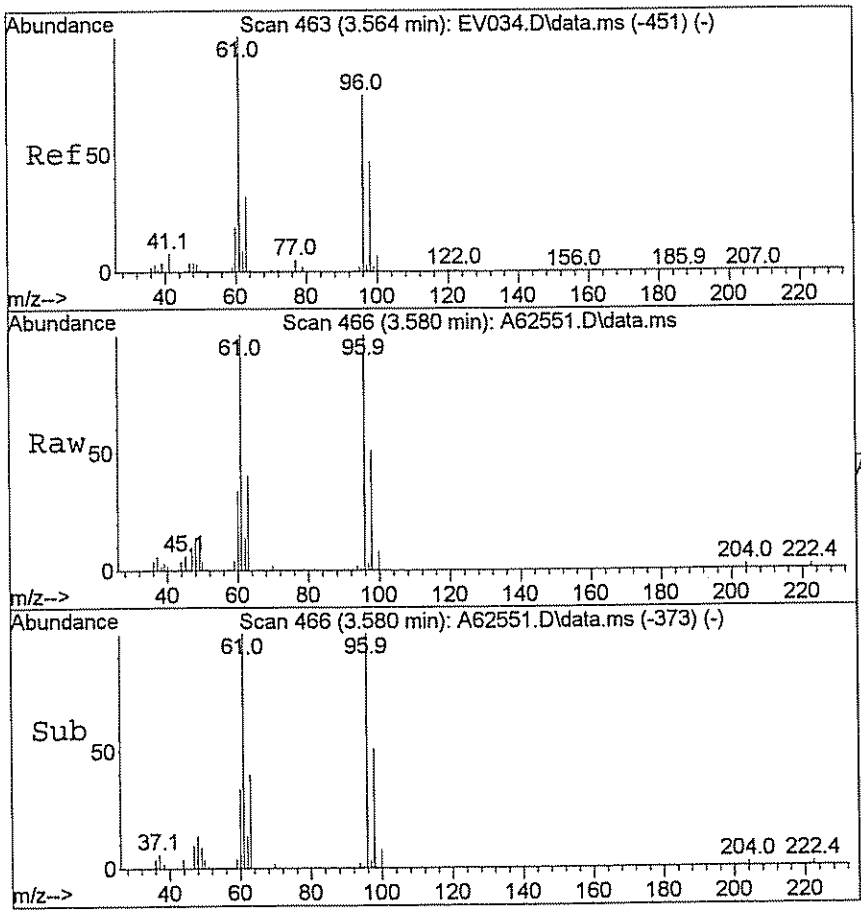


#19
Acetone
Concen: 70.97 ug/L
RT: 2.296 min Scan# 226
Delta R.T. 0.000 min
Lab File: A62551.D
Acq: 26 Mar 2009 2:41

Tgt Ion: 43 Resp: 45942

Ion	Ratio	Lower	Upper
43	100		
58	28.2	25.2	37.8

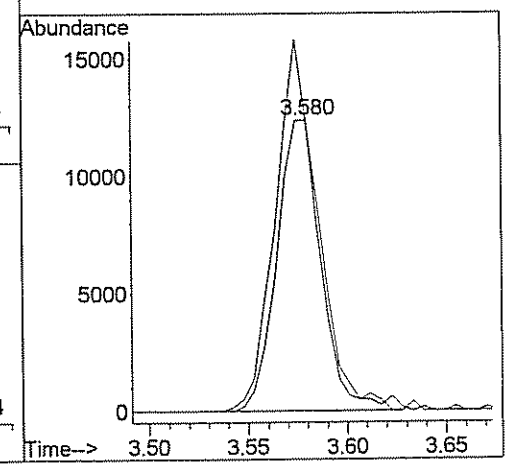


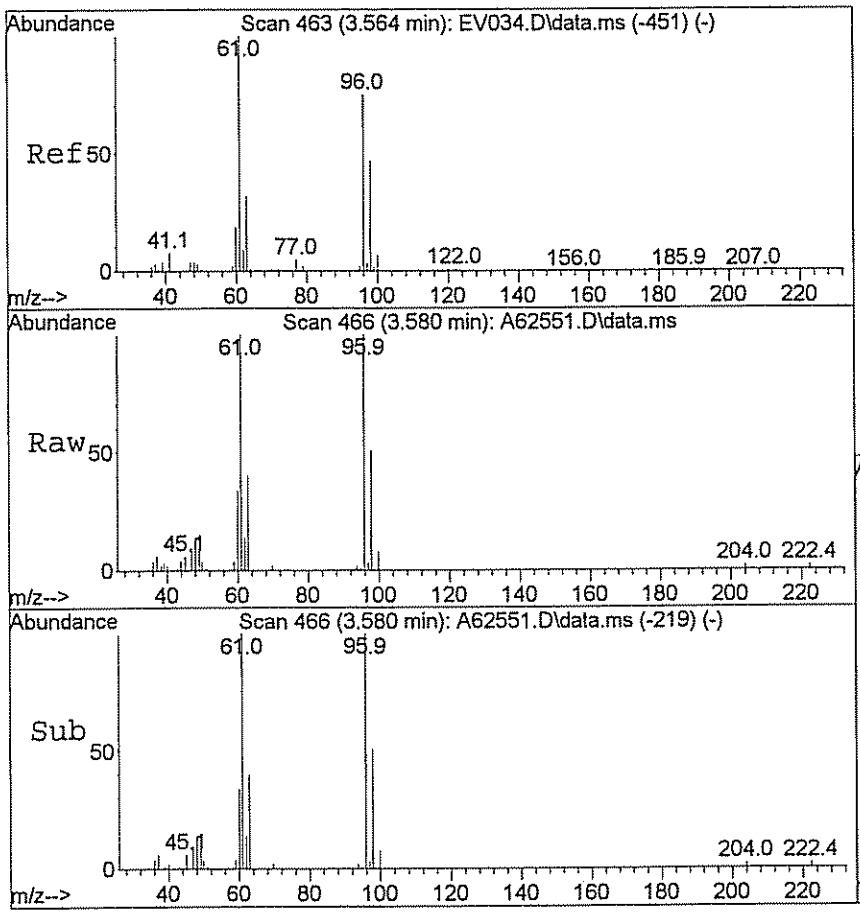


#28
Cis-1,2-dichloroethene
Concen: 10.00 ug/L
RT: 3.580 min Scan# 466
Delta R.T. 0.000 min
Lab File: A62551.D
Acq: 26 Mar 2009 2:41

Tgt Ion: 96 Resp: 19259

Ion	Ratio	Lower	Upper
96	100		
61	123.8	115.0	172.6

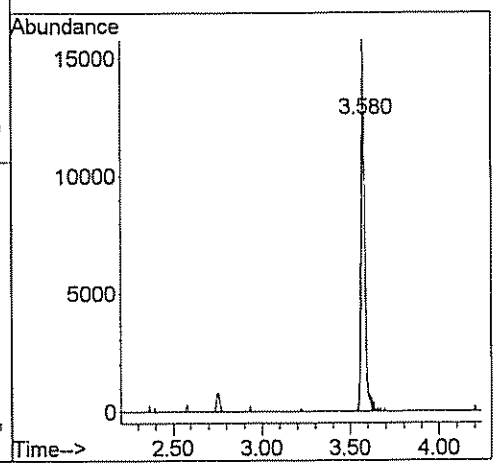


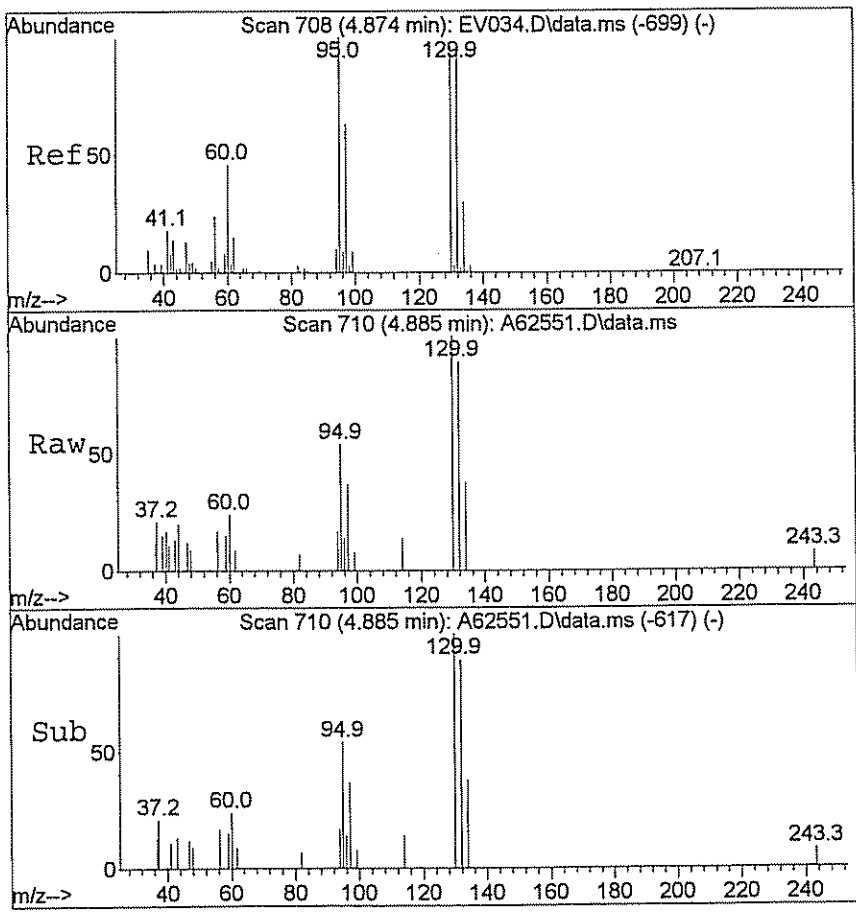


#29
1,2-dichloroethene(total)
Concen: 10.05 ug/L m
RT: 3.580 min Scan# 466
Delta R.T. 0.824 min
Lab File: A62551.D
Acq: 26 Mar 2009 2:41

Tgt Ion: 96 Resp: 20479

Ion	Ratio	Lower	Upper
96	100		
61	5.6	115.0	172.6#

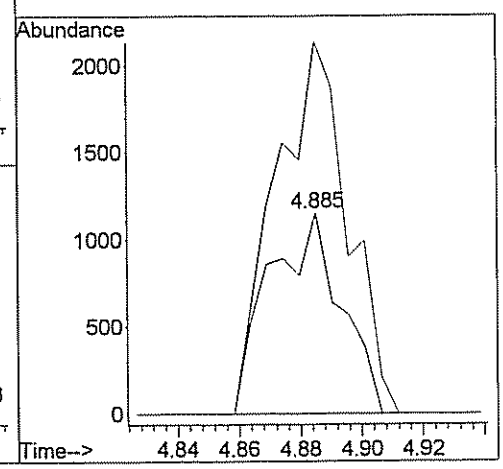




#47
Trichloroethene
Concen: 0.96 ug/L
RT: 4.885 min Scan# 710
Delta R.T. 0.000 min
Lab File: A62551.D
Acq: 26 Mar 2009 2:41

Tgt Ion: 95 Resp: 1863

Ion	Ratio	Lower	Upper
95	100		
130	188.2	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-010-1/3
Sample Volume :	5	Lab File ID :	A62553.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	6.5	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-010-1/3
Sample Volume :	5	Lab File ID :	A62553.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	13	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-010-1/3
Sample Volume :	5	Lab File ID :	A62553.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	31	
156-59-2	cis-1,2-Dichloroethene	1800	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	59	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62553.D
Acq On : 26 Mar 2009 3:21
Operator : SM
Sample : 903093-004
Misc : OUI-16GW06-0309,CH2M HILL,WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 27 15:55:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

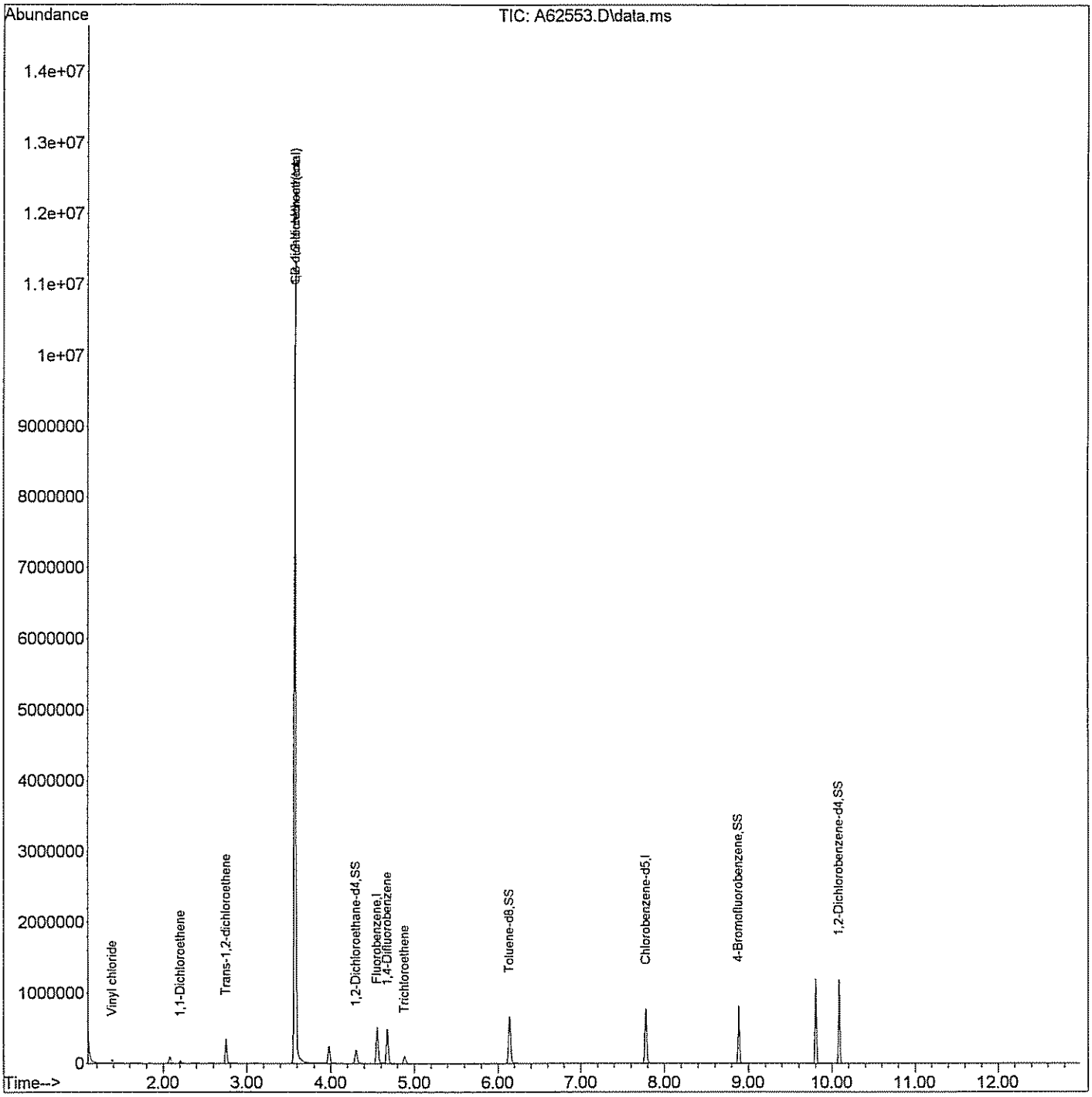
Compound		R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1) Fluorobenzene		4.554	96	382387	50.00	ug/L		0.00
41) 1,4-Difluorobenzene		4.677	114	355981	50.00	ug/L	#	0.00
59) Chlorobenzene-d5		7.779	117	380492	50.00	ug/L		0.00
System Monitoring Compounds								
40) 1,2-Dichloroethane-d4		4.302	65	102375	50.40	ug/L		0.00
Spiked Amount	50.000	Range 70 - 120		Recovery =	100.80%			
54) Toluene-d8		6.142	98	423599	51.35	ug/L		0.00
Spiked Amount	50.000	Range 85 - 120		Recovery =	102.70%			
76) 4-Bromofluorobenzene		8.881	95	166595	46.45	ug/L		0.00
Spiked Amount	50.000	Range 75 - 120		Recovery =	92.90%			
92) 1,2-Dichlorobenzene-d4		10.085	152	198964	56.56	ug/L		0.00
Spiked Amount	50.000	Range 64 - 132		Recovery =	113.12%			
Target Compounds								Qvalue
4) Vinyl chloride		1.387	62	48567	30.69	ug/L		100
12) 1,1-Dichloroethene		2.205	96	9050	6.52	ug/L		88
16) Trans-1,2-dichloroethene		2.751	96	94057	58.96	ug/L		81
28) Cis-1,2-dichloroethene		3.575	96	3538318	1827.78	ug/L	#	76
29) 1,2-dichloroethene(total)		3.575	96	3647547m	1779.97	ug/L		
47) Trichloroethene		4.885	95	24594	12.71	ug/L	#	71

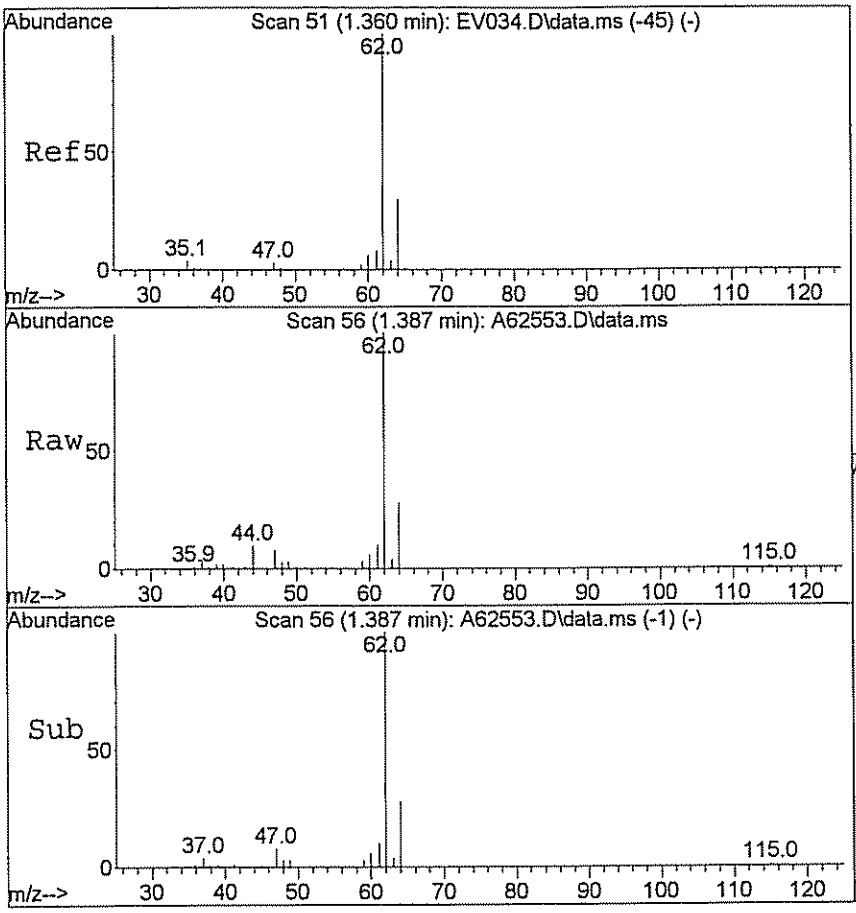
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62553.D
Acq On : 26 Mar 2009 3:21
Operator : SM
Sample : 903093-004
Misc : OUI-16GW06-0309,CH2M HILL,WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 27 15:55:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

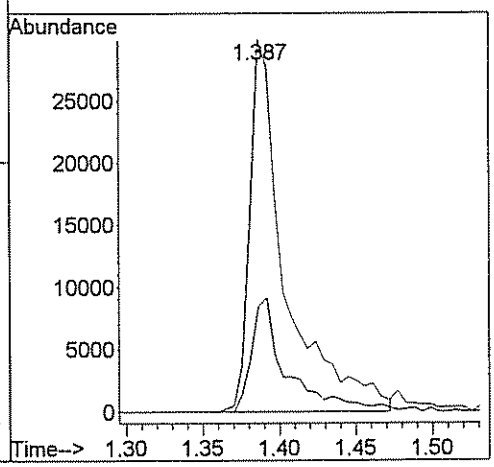


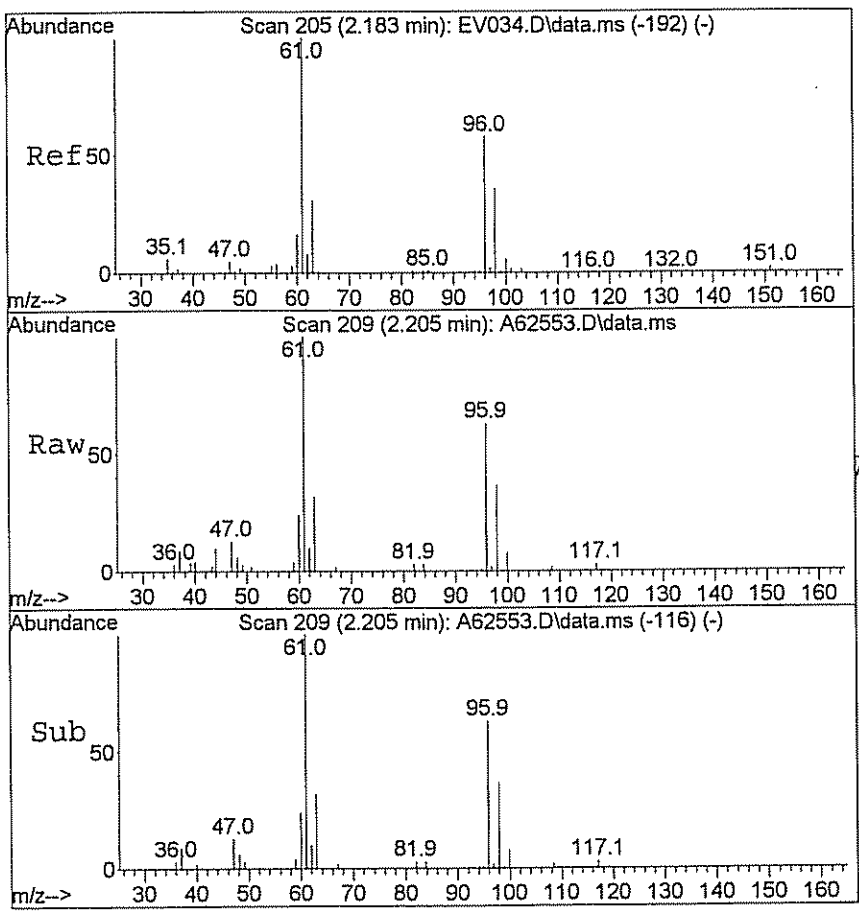


#4
Vinyl chloride
Concen: 30.69 ug/L
RT: 1.387 min Scan# 56
Delta R.T. -0.010 min
Lab File: A62553.D
Acq: 26 Mar 2009 3:21

Tgt Ion: 62 Resp: 48567

Ion	Ratio	Lower	Upper
62	100		
64	30.5	24.5	36.7

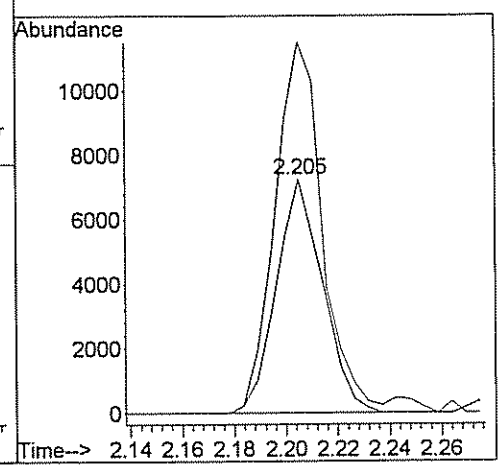


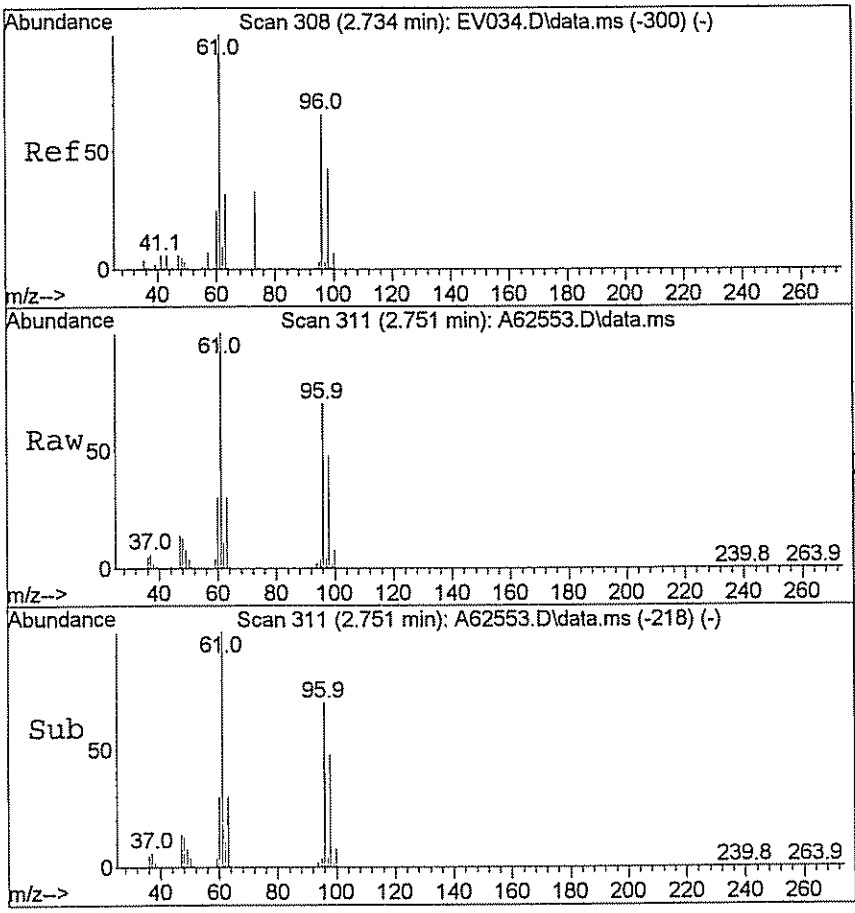


#12
1,1-Dichloroethene
Concen: 6.52 ug/L
RT: 2.205 min Scan# 209
Delta R.T. -0.005 min
Lab File: A62553.D
Acq: 26 Mar 2009 3:21

Tgt Ion: 96 Resp: 9050

Ion	Ratio	Lower	Upper
96	100		
61	161.9	142.8	214.2

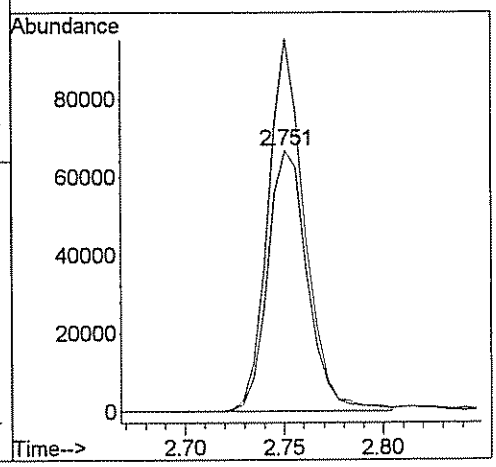


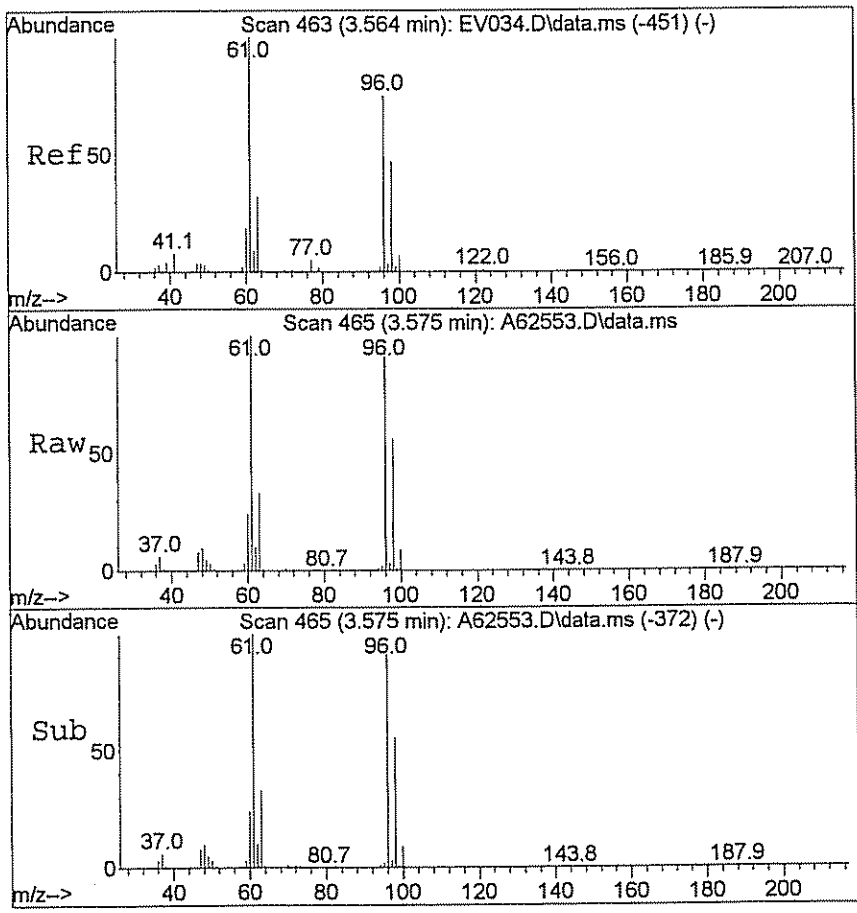


#16
Trans-1,2-dichloroethene
Concen: 58.96 ug/L
RT: 2.751 min Scan# 311
Delta R.T. -0.005 min
Lab File: A62553.D
Acq: 26 Mar 2009 3:21

Tgt Ion: 96 Resp: 94057

Ion	Ratio	Lower	Upper
96	100		
61	130.9	124.0	186.0

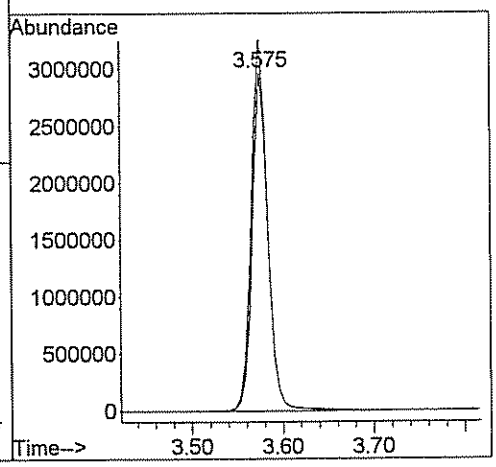


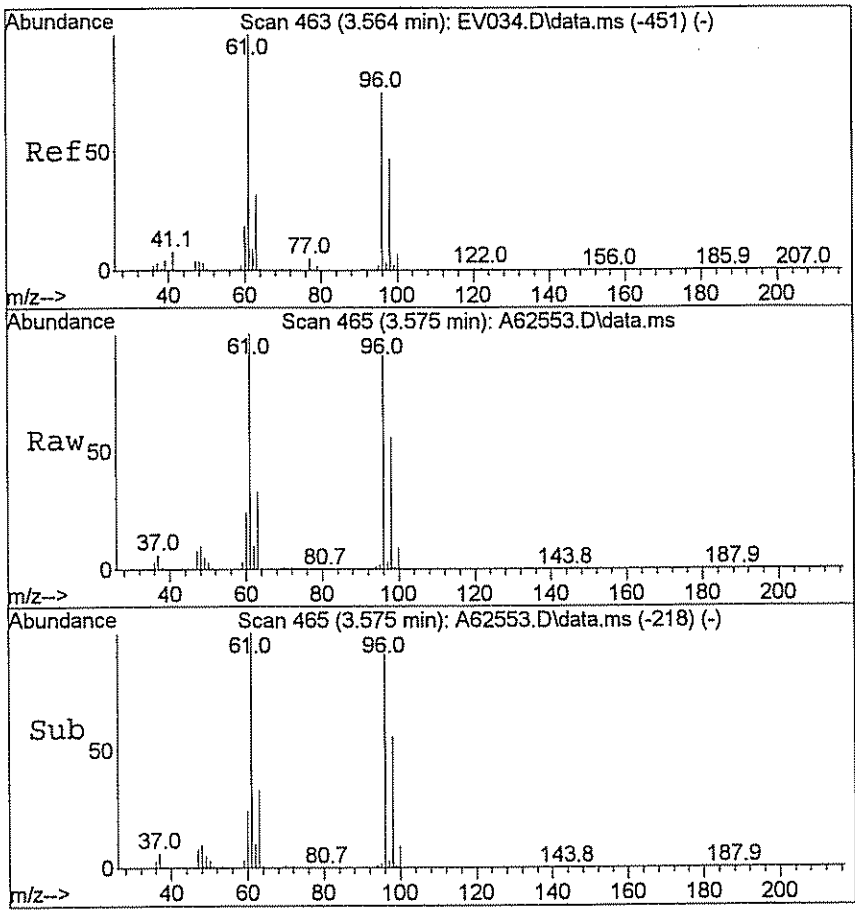


#28
Cis-1,2-dichloroethene
Concen: 1827.78 ug/L
RT: 3.575 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62553.D
Acq: 26 Mar 2009 3:21

Tgt Ion: 96 Resp: 3538318

Ion	Ratio	Lower	Upper
96	100		
61	113.9	115.0	172.6#

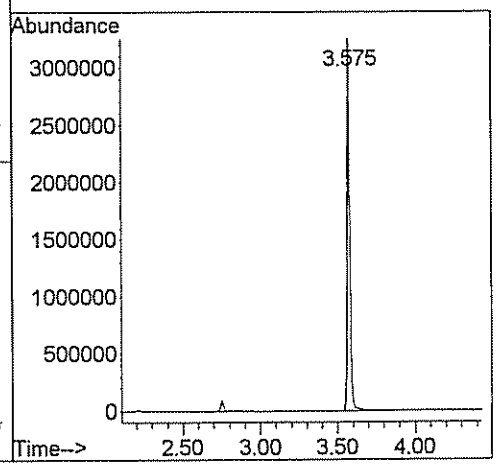


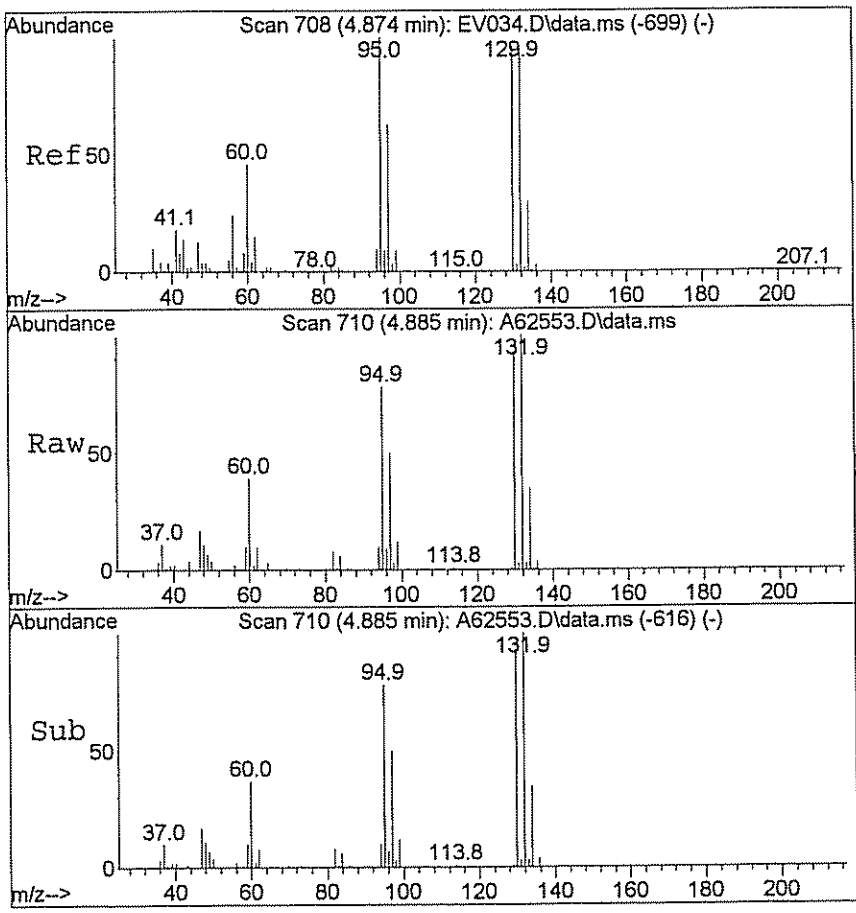


#29
1,2-dichloroethene(total)
Concen: 1779.97 ug/L m
RT: 3.575 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62553.D
Acq: 26 Mar 2009 3:21

Tgt Ion: 96 Resp: 3647547

Ion	Ratio	Lower	Upper
96	100		
61	3.4	115.0	172.6#

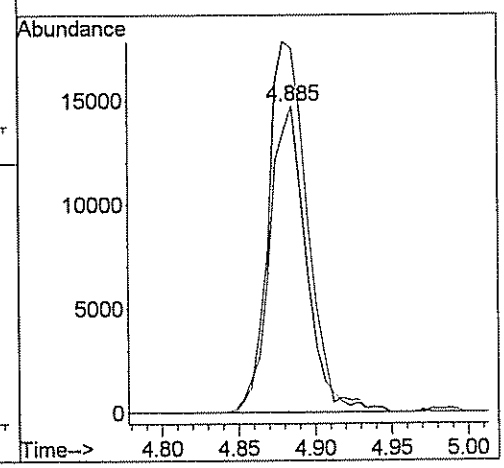




#47
Trichloroethene
Concen: 12.71 ug/L
RT: 4.885 min Scan# 710
Delta R.T. 0.000 min
Lab File: A62553.D
Acq: 26 Mar 2009 3:21

Tgt Ion: 95 Resp: 24594

Ion	Ratio	Lower	Upper
95	100		
130	128.9	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-011-2/3
Sample Volume :	.1	Lab File ID :	A62573.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
563-58-6	1,1-Dichloropropene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
96-12-8	1,2-Dibromo-3-Chloropropane	100	U
95-50-1	1,2-Dichlorobenzene	50	U
107-06-2	1,2-Dichloroethane	50	U
78-87-5	1,2-Dichloropropane	50	U
108-67-8	1,3,5-trimethylbenzene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
142-28-9	1,3-Dichloropropane	50	U
106-46-7	1,4-Dichlorobenzene	50	U
594-20-7	2,2-Dichloropropane	50	U
78-93-3	2-Butanone	250	U
95-49-8	2-Chlorotoluene	50	U
591-78-6	2-Hexanone	250	U
106-43-4	4-Chlorotoluene	50	U
99-87-6	4-Isopropyltoluene	50	U
108-10-1	4-Methyl-2-Pentanone	250	U
67-64-1	Acetone	250	U
71-43-2	Benzene	50	U
108-86-1	Bromobenzene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-011-2/3
Sample Volume :	.1	Lab File ID :	A62573.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	50	U
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
75-15-0	Carbon Disulfide	50	U
56-23-5	Carbon Tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
110-82-7	Cyclohexane	50	U
124-48-1	Dibromochloromethane	50	U
74-95-3	Dibromomethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
100-41-4	Ethylbenzene	50	U
106-93-4	Ethylene DiBromide	50	U
76-13-1	Freon 113	50	U
87-68-3	Hexachlorobutadiene	50	U
98-82-8	Isopropylbenzene	50	U
79-20-9	Methyl Acetate	50	U
108-87-2	Methylcyclohexane	50	U
75-09-2	Methylene Chloride	50	U
91-20-3	Naphthalene	50	U
135-98-8	Sec-Butylbenzene	50	U
100-42-5	Styrene	50	U
127-18-4	Tetrachloroethylene	50	U
108-88-3	Toluene	50	U
79-01-6	Trichloroethene	50	U
75-69-4	Trichlorofluoromethane	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-011-2/3
Sample Volume :	.1	Lab File ID :	A62573.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	50	U
75-01-4	Vinyl Chloride	50	U
156-59-2	cis-1,2-Dichloroethene	540	
10061-01-5	cis-1,3-Dichloropropene	50	U
136777-61-2	m,p-Xylene	50	U
104-51-8	n-Butylbenzene	50	U
103-65-1	n-Propylbenzene	50	U
95-47-6	o-Xylene	50	U
98-06-6	tert-Butylbenzene	50	U
1634-04-4	tert-butyl methyl ether	50	U
156-60-5	trans-1,2-dichloroethene	50	U
10061-02-6	trans-1,3-dichloropropene	50	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62573.D
Acq On : 26 Mar 2009 12:13
Operator : SM
Sample : 903093-004
Misc : OUI-16GW06-0309,CH2M HILL,50X
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 17:36:38 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

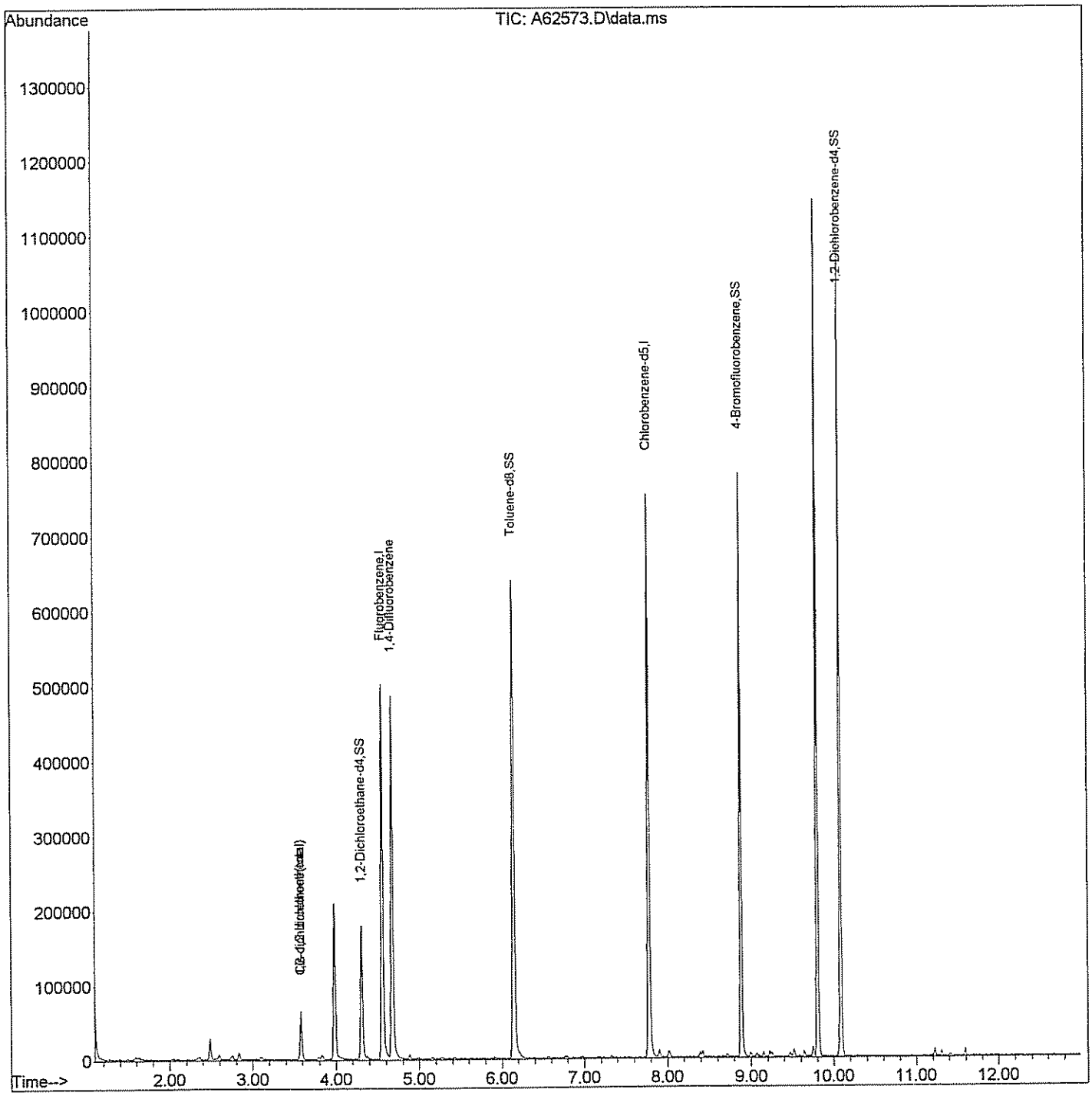
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	396549	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	366916	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	368443	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	92805	44.05	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 88.10%			
54) Toluene-d8	6.142	98	408770	48.08	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.16%			
76) 4-Bromofluorobenzene	8.881	95	164825	47.46	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.92%			
92) 1,2-Dichlorobenzene-d4	10.085	152	197036	57.85	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.70%			
Target Compounds						Qvalue
28) Cis-1,2-dichloroethene	3.574	96	21514	10.72	ug/L	# 76
29) 1,2-dichloroethene(total)	3.574	96	23721m	11.16	ug/L	

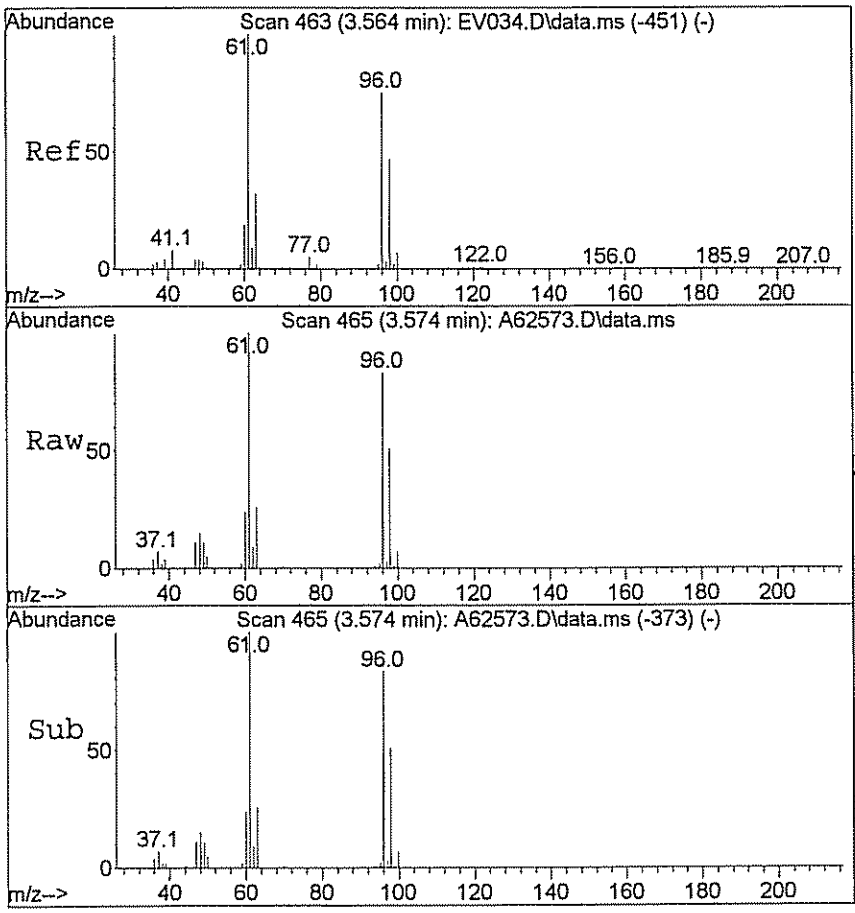
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62573.D
Acq On : 26 Mar 2009 12:13
Operator : SM
Sample : 903093-004
Misc : OUI-16GW06-0309,CH2M HILL,50X
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 17:36:38 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

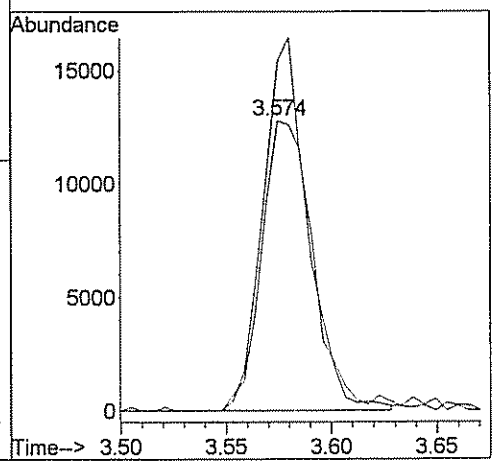


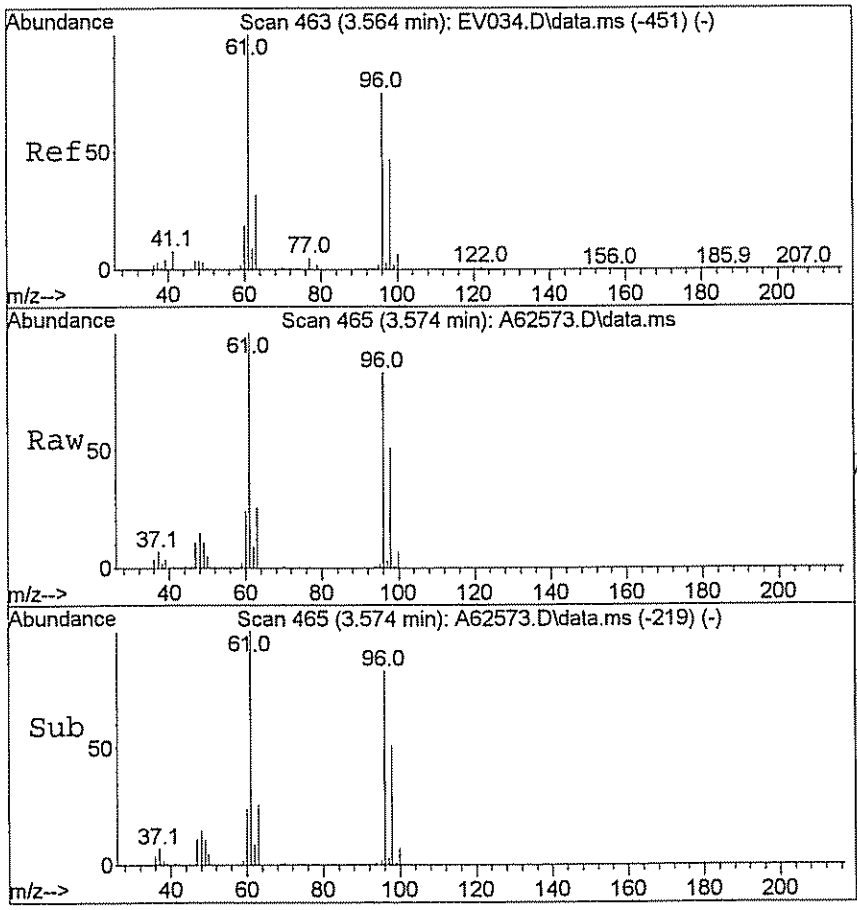


#28
Cis-1,2-dichloroethene
Concen: 10.72 ug/L
RT: 3.574 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62573.D
Acq: 26 Mar 2009 12:13

Tgt Ion: 96 Resp: 21514

Ion	Ratio	Lower	Upper
96	100		
61	113.7	115.0	172.6#

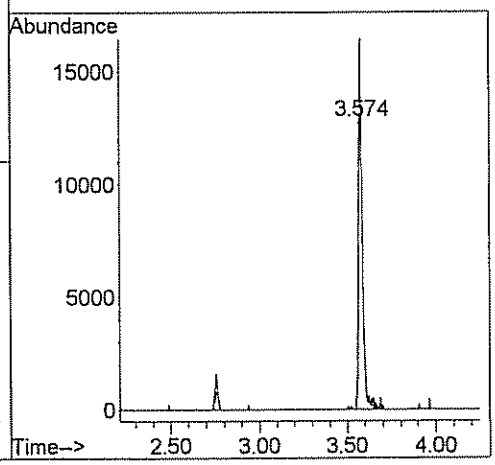




#29
1,2-dichloroethene(total)
Concen: 11.16 ug/L m
RT: 3.574 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62573.D
Acq: 26 Mar 2009 12:13

Tgt Ion: 96 Resp: 23721

Ion	Ratio	Lower	Upper
96	100		
61	7.6	115.0	172.6#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-013-1/3
Sample Volume :	5	Lab File ID :	A62555.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-013-1/3
Sample Volume :	5	Lab File ID :	A62555.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	6.4	
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.6	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	32	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093 .
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-013-1/3
Sample Volume :	5	Lab File ID :	A62555.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	29	
156-59-2	cis-1,2-Dichloroethene	180	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	7.7	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62555.D
Acq On : 26 Mar 2009 4:02
Operator : SM
Sample : 903093-005
Misc : OUI-16GW28-0309,CH2M HILL,WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 15:43:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

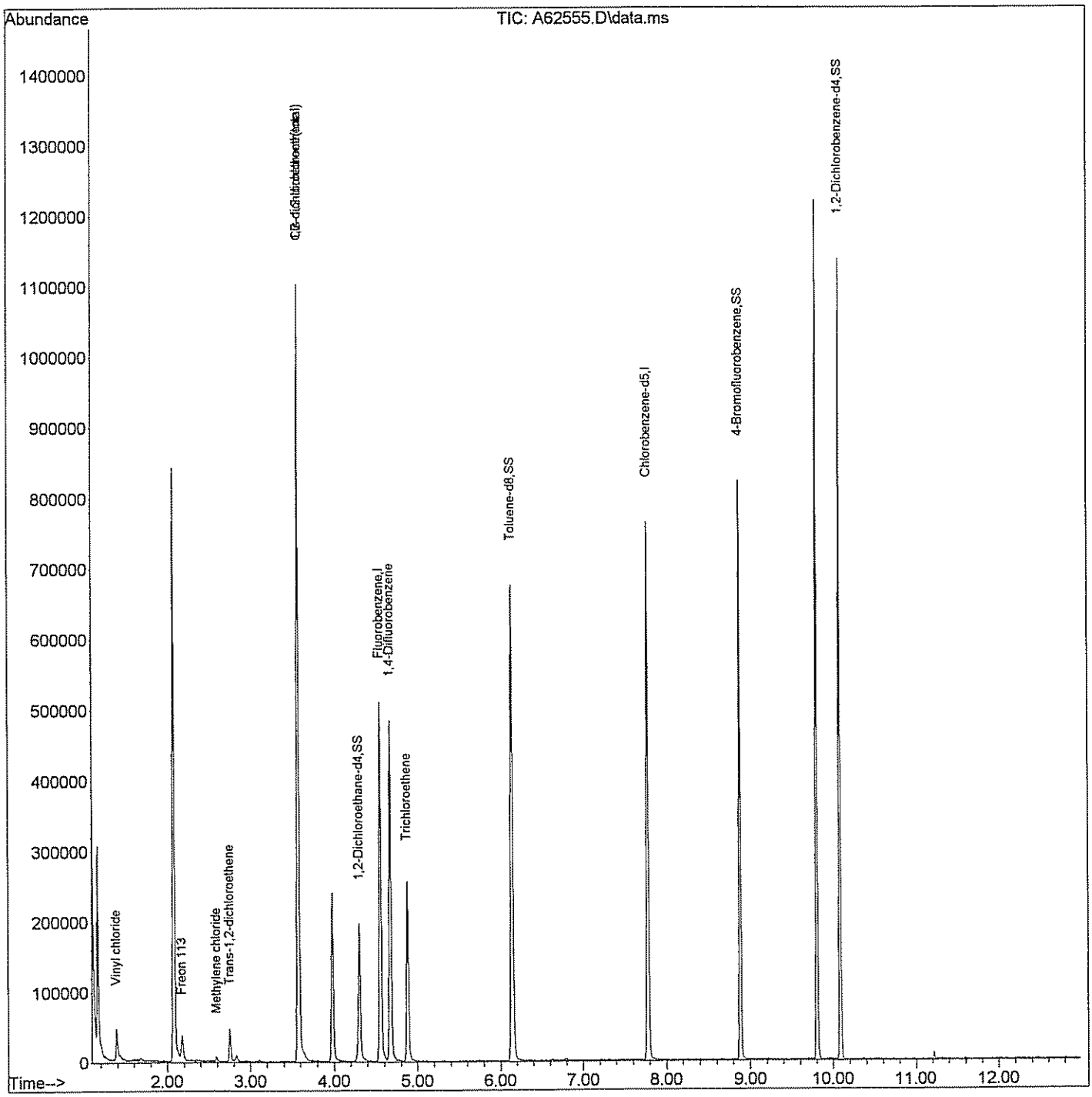
Compound		R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1) Fluorobenzene		4.553	96	384154	50.00	ug/L		0.00
41) 1,4-Difluorobenzene		4.676	114	352372	50.00	ug/L	#	0.00
59) Chlorobenzene-d5		7.779	117	380634	50.00	ug/L		0.00
System Monitoring Compounds								
40) 1,2-Dichloroethane-d4		4.302	65	105179	51.54	ug/L		0.00
Spiked Amount	50.000	Range 70 - 120		Recovery =	103.08%			
54) Toluene-d8		6.142	98	419604	51.39	ug/L		0.00
Spiked Amount	50.000	Range 85 - 120		Recovery =	102.78%			
76) 4-Bromofluorobenzene		8.881	95	168774	47.04	ug/L		0.00
Spiked Amount	50.000	Range 75 - 120		Recovery =	94.08%			
92) 1,2-Dichlorobenzene-d4		10.085	152	201260	57.19	ug/L		0.00
Spiked Amount	50.000	Range 64 - 132		Recovery =	114.38%			
Target Compounds								Qvalue
4) Vinyl chloride		1.386	62	46044	28.97	ug/L		95
9) Freon 113		2.173	101	7782	6.40	ug/L	#	80
15) Methylene chloride		2.590	84	1659	2.55	ug/L	#	72
16) Trans-1,2-dichloroethene		2.750	96	12283	7.66	ug/L		85
28) Cis-1,2-dichloroethene		3.574	96	358923	184.55	ug/L		82
29) 1,2-dichloroethene(total)		3.574	96	372902m	181.14	ug/L		
47) Trichloroethene		4.880	95	60922	31.81	ug/L	#	68

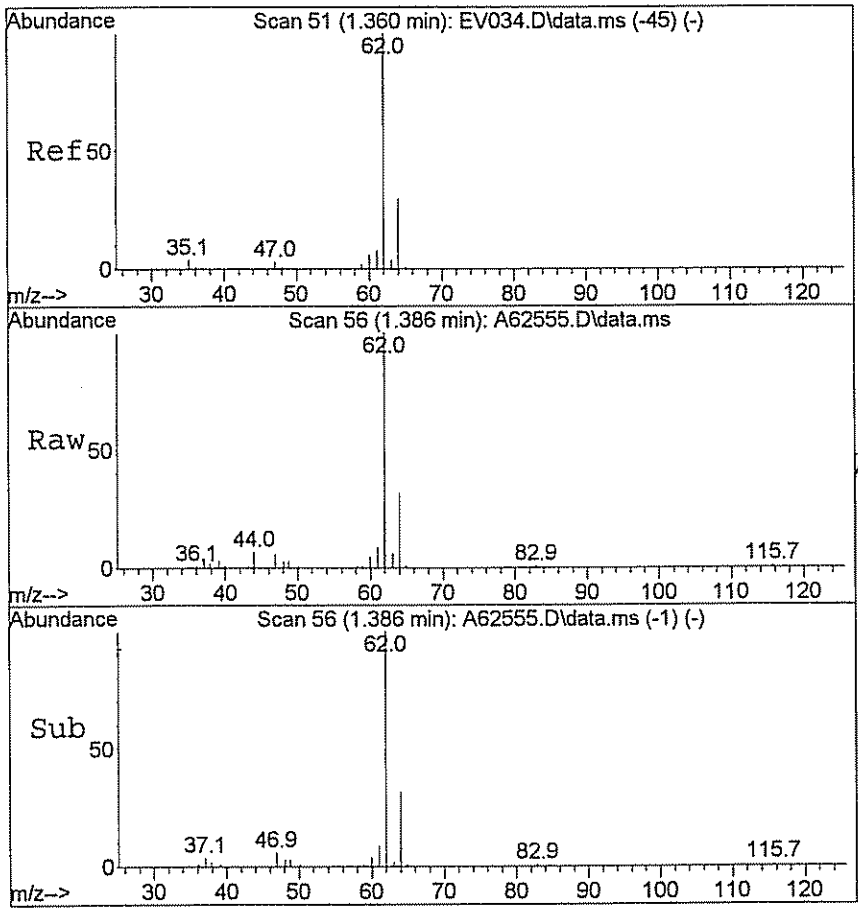
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62555.D
Acq On : 26 Mar 2009 4:02
Operator : SM
Sample : 903093-005
Misc : OUI-16GW28-0309,CH2M HILL,WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 27 15:43:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

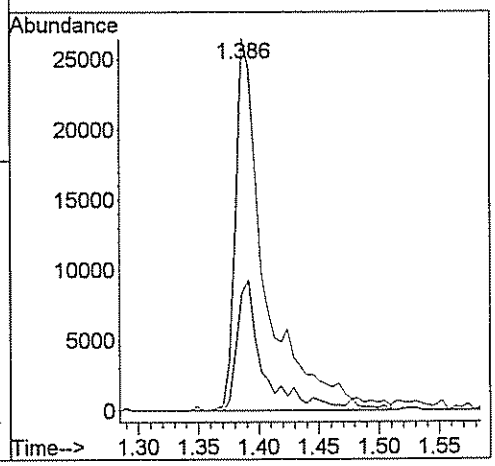


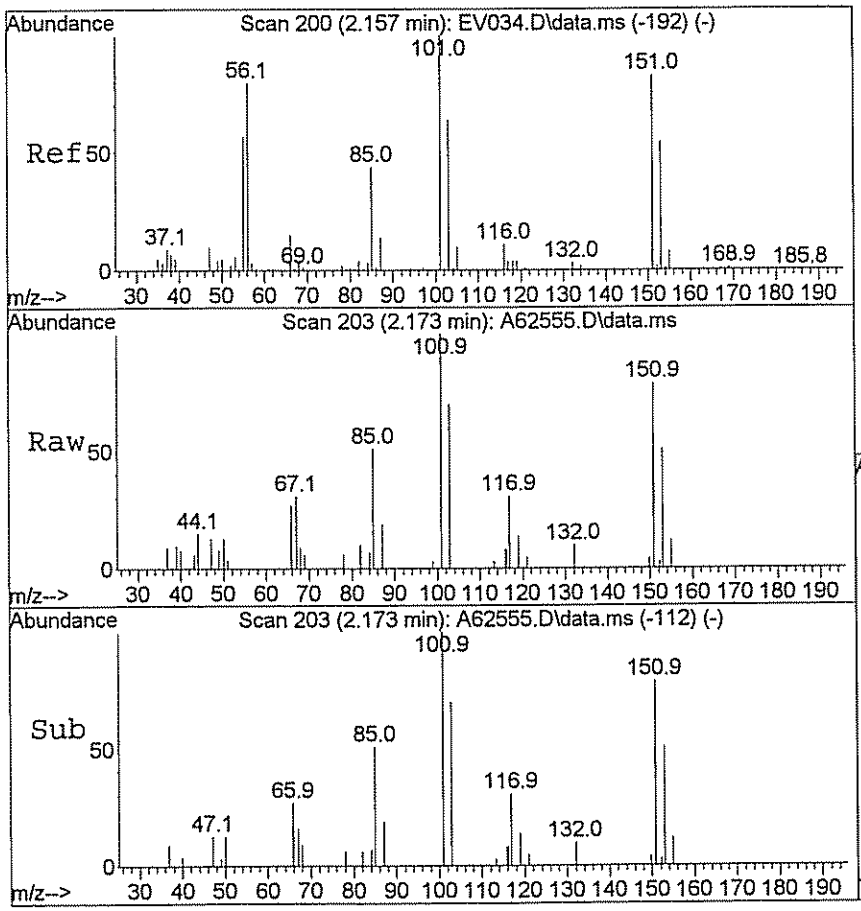


#4
Vinyl chloride
Concen: 28.97 ug/L
RT: 1.386 min Scan# 56
Delta R.T. -0.011 min
Lab File: A62555.D
Acq: 26 Mar 2009 4:02

Tgt Ion: 62 Resp: 46044

Ion	Ratio	Lower	Upper
62	100		
64	27.7	24.5	36.7

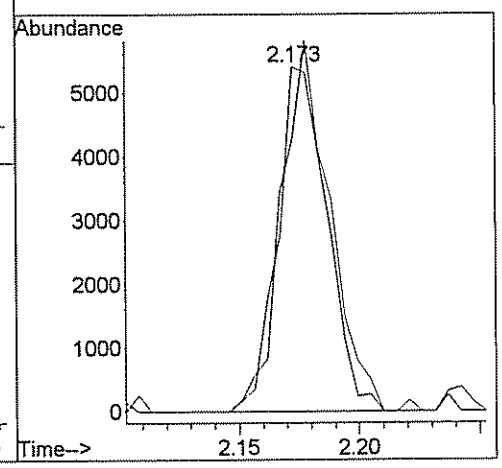


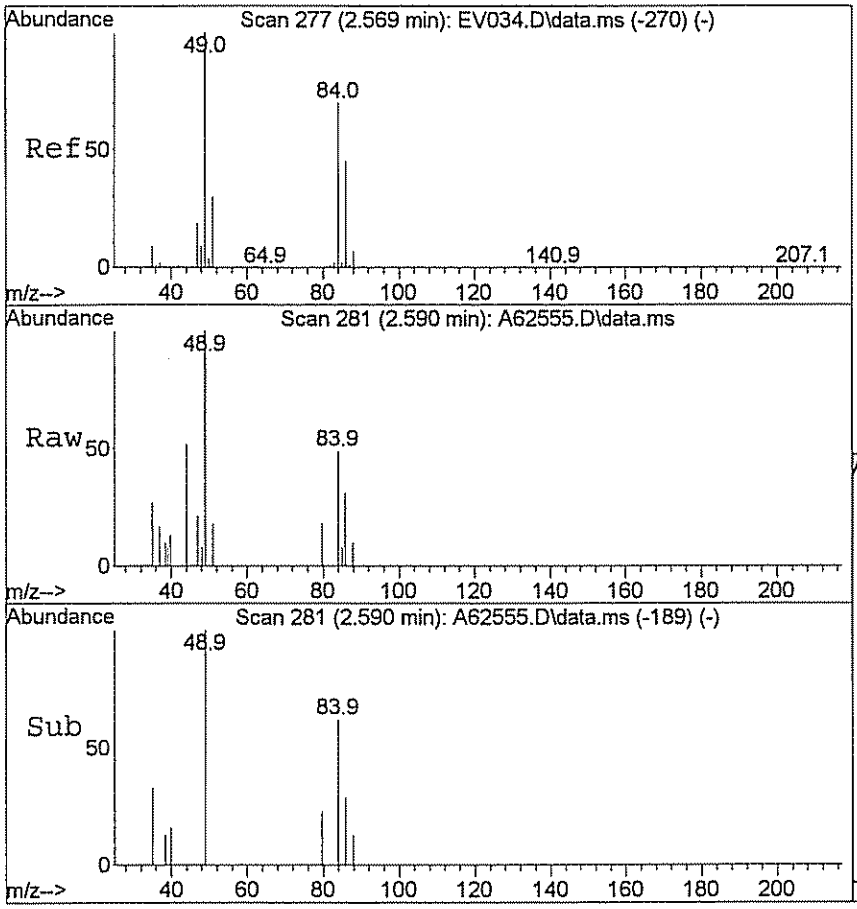


#9
Freon 113
Concen: 6.40 ug/L
RT: 2.173 min Scan# 203
Delta R.T. -0.011 min
Lab File: A62555.D
Acq: 26 Mar 2009 4:02

Tgt Ion:101 Resp: 7782

Ion	Ratio	Lower	Upper
101	100		
151	105.1	69.1	103.7#

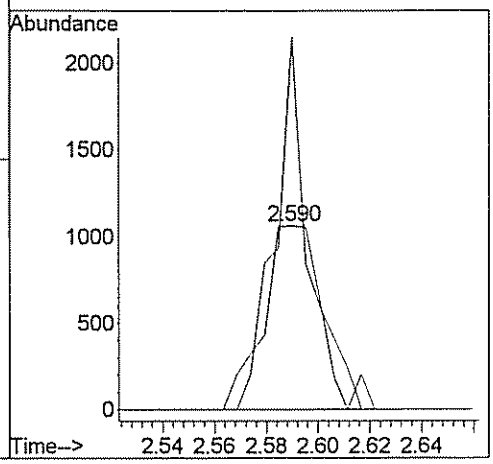


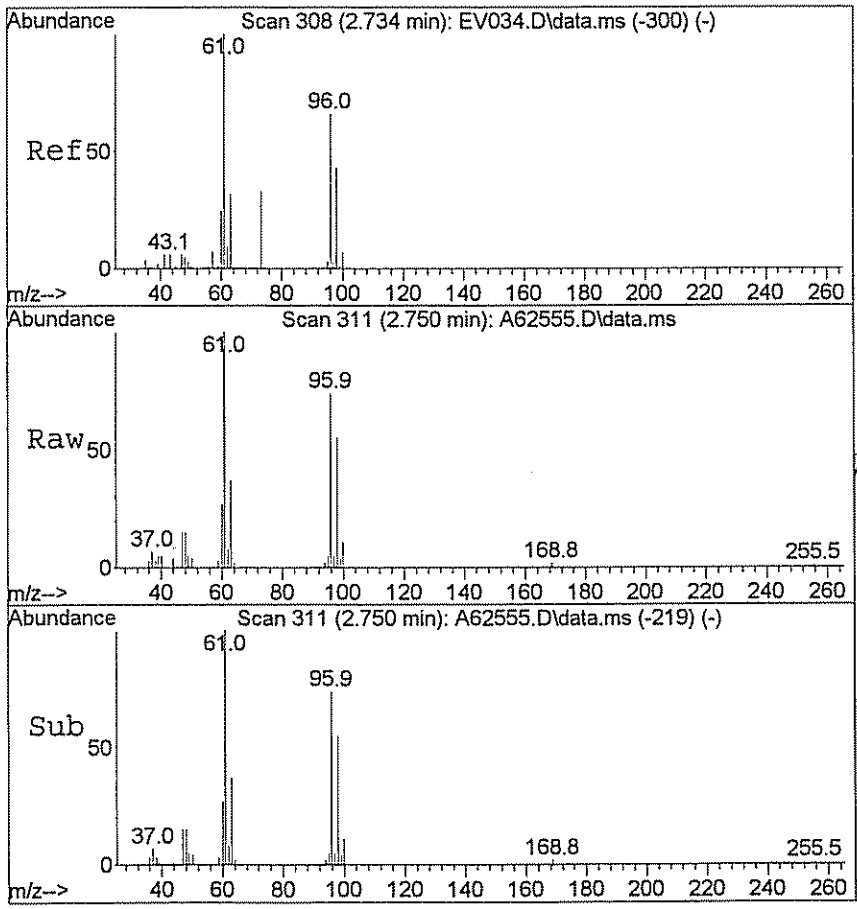


#15
Methylene chloride
Concen: 2.55 ug/L
RT: 2.590 min Scan# 281
Delta R.T. -0.005 min
Lab File: A62555.D
Acq: 26 Mar 2009 4:02

Tgt Ion: 84 Resp: 1659

Ion	Ratio	Lower	Upper
84	100		
49	120.7	125.9	188.9#

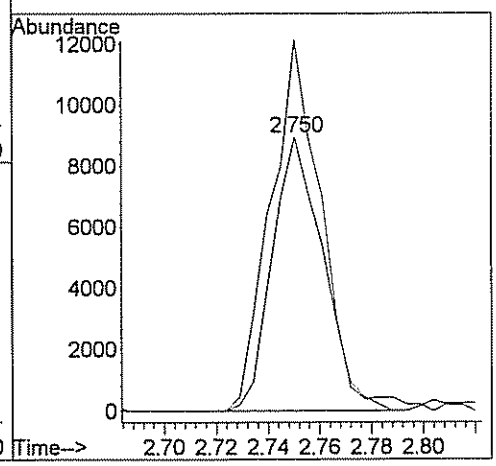


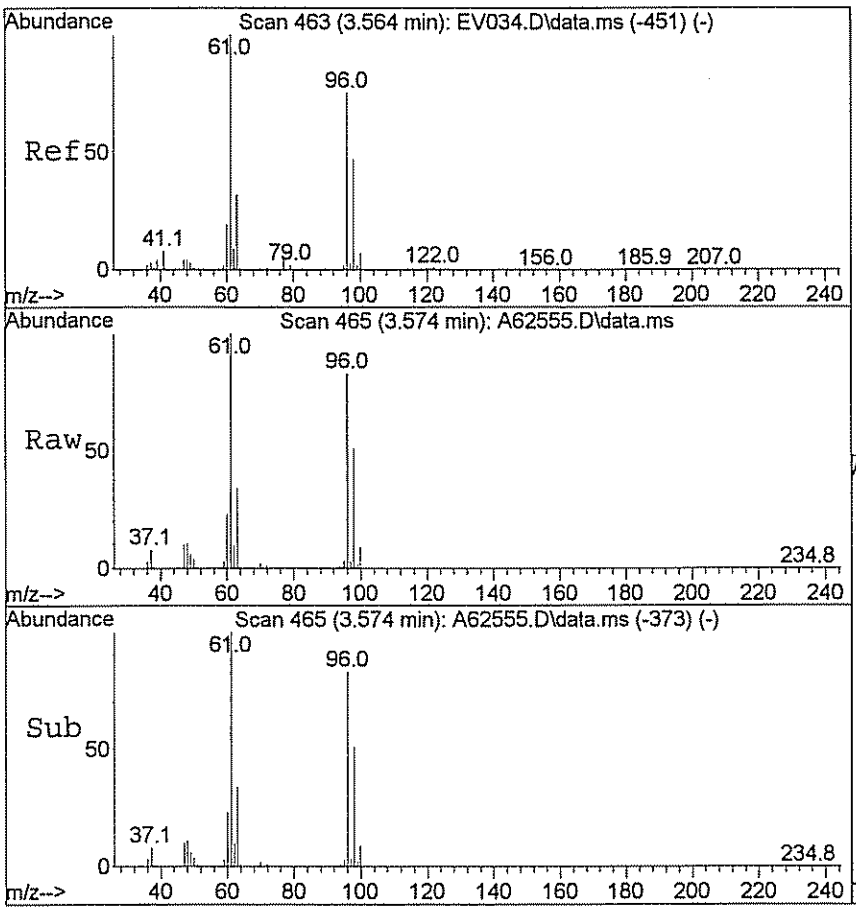


#16
Trans-1,2-dichloroethene
Concen: 7.66 ug/L
RT: 2.750 min Scan# 311
Delta R.T. -0.005 min
Lab File: A62555.D
Acq: 26 Mar 2009 4:02

Tgt Ion: 96 Resp: 12283

Ion	Ratio	Lower	Upper
96	100		
61	135.2	124.0	186.0

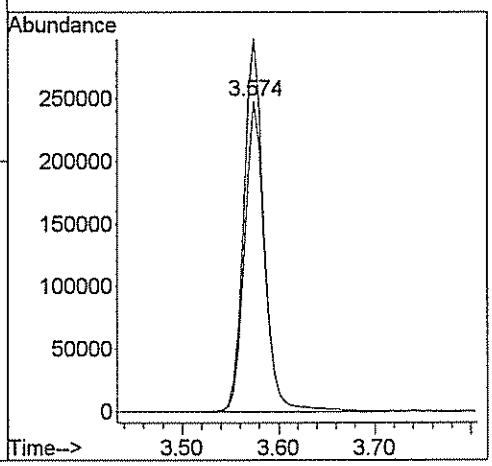


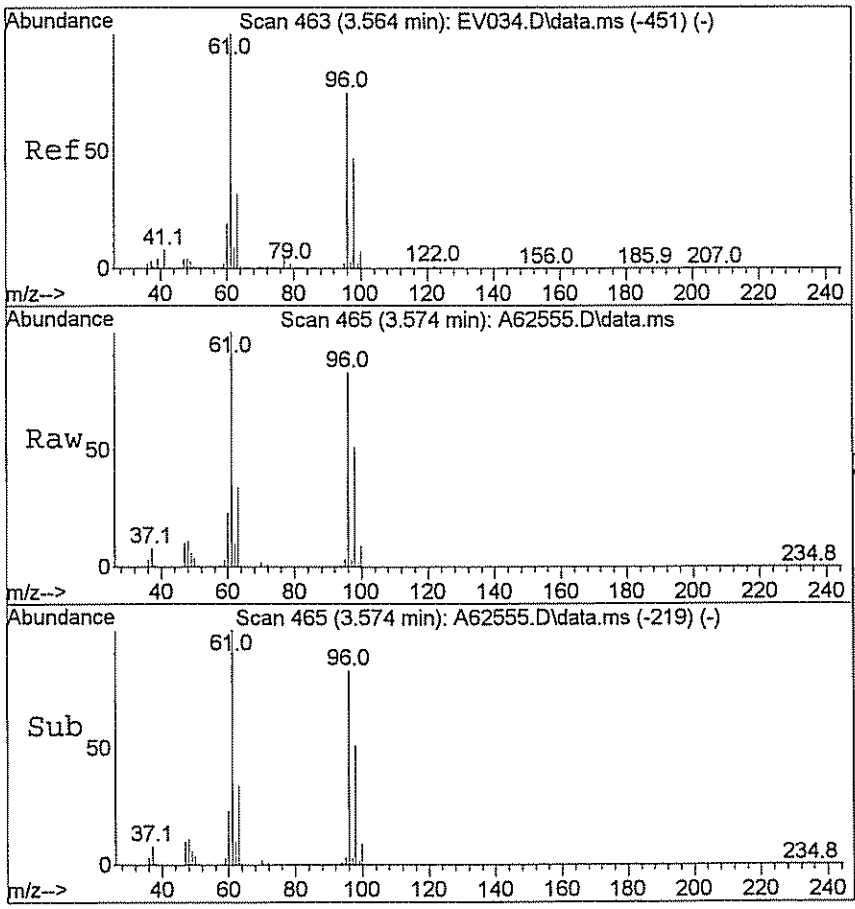


#28
Cis-1,2-dichloroethene
Concen: 184.55 ug/L
RT: 3.574 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62555.D
Acq: 26 Mar 2009 4:02

Tgt Ion: 96 Resp: 358923

Ion	Ratio	Lower	Upper
96	100		
61	122.1	115.0	172.6

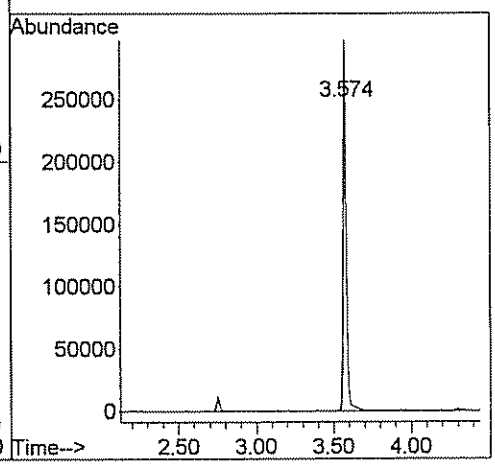


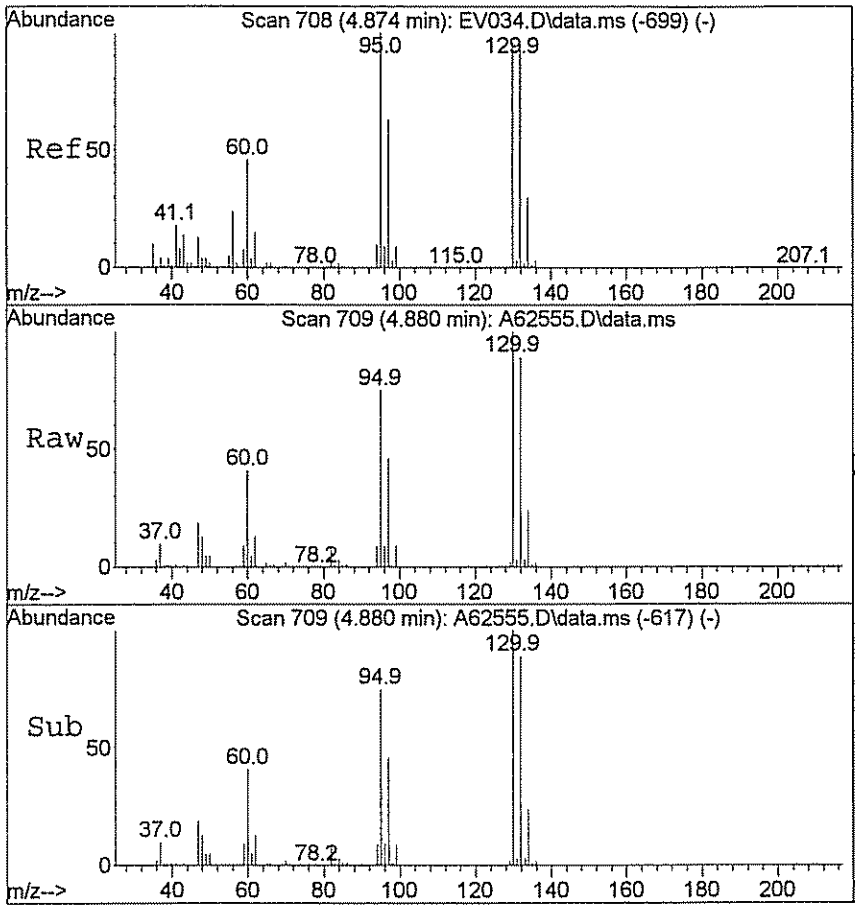


#29
1,2-dichloroethene(total)
Concen: 181.14 ug/L m
RT: 3.574 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62555.D
Acq: 26 Mar 2009 4:02

Tgt Ion: 96 Resp: 372902

Ion	Ratio	Lower	Upper
96	100		
61	4.5	115.0	172.6#

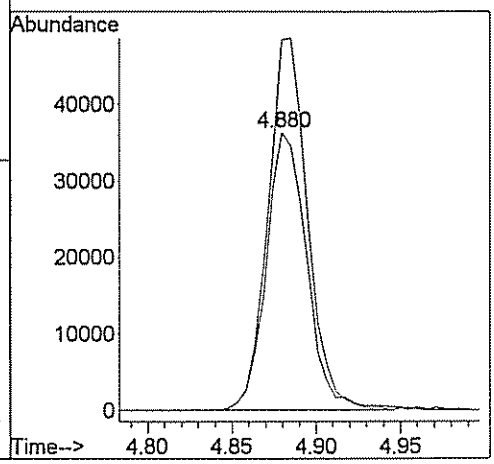




#47
Trichloroethene
Concen: 31.81 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62555.D
Acq: 26 Mar 2009 4:02

Tgt Ion: 95 Resp: 60922

Ion	Ratio	Lower	Upper
95	100		
130	131.6	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-016-1/3
Sample Volume :	5	Lab File ID :	A62557.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	81	
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-016-1/3
Sample Volume :	5	Lab File ID :	A62557.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-016-1/3
Sample Volume :	5	Lab File ID :	A62557.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62557.D
Acq On : 26 Mar 2009 4:42
Operator : SM
Sample : 903093-006
Misc : OUI-16GW29-0309,CH2M HILL,WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 15:36:23 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

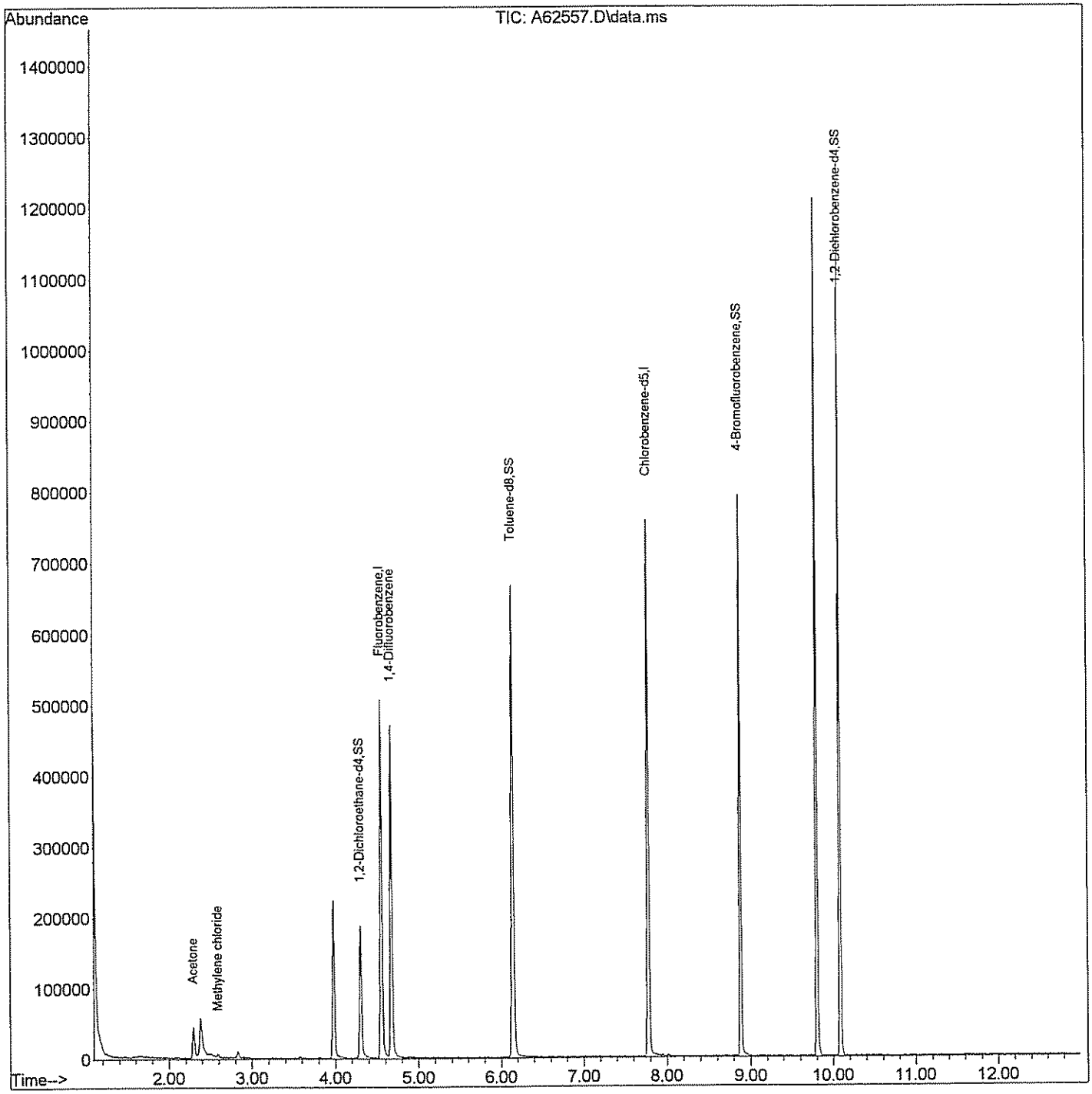
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	369893	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	339401	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	374601	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	97244	49.49	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.98%			
54) Toluene-d8	6.142	98	417195	53.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 106.10%			
76) 4-Bromofluorobenzene	8.881	95	164791	46.67	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 93.34%			
92) 1,2-Dichlorobenzene-d4	10.085	152	204156	58.95	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.90%			
Target Compounds						Qvalue
15) Methylene chloride	2.590	84	1043	2.25	ug/L	# 42
19) Acetone	2.296	43	50844	80.60	ug/L	94

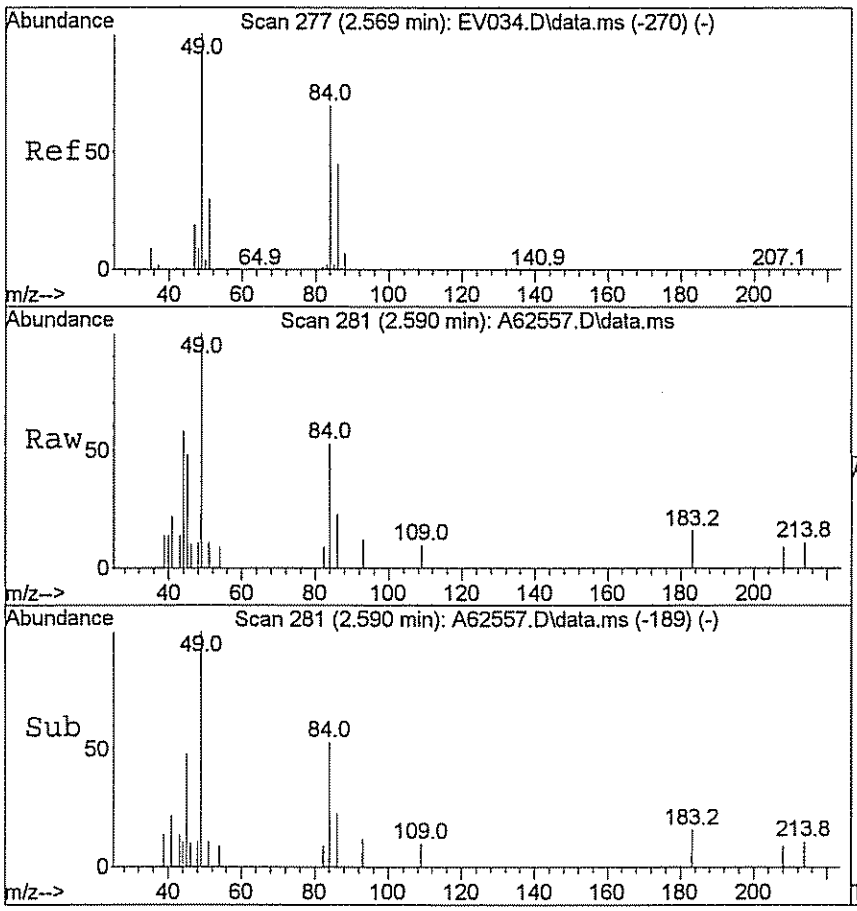
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62557.D
Acq On : 26 Mar 2009 4:42
Operator : SM
Sample : 903093-006
Misc : OUI-16GW29-0309,CH2M HILL,WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 27 15:36:23 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

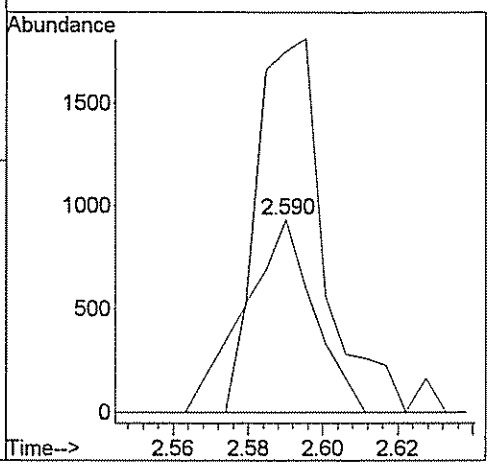


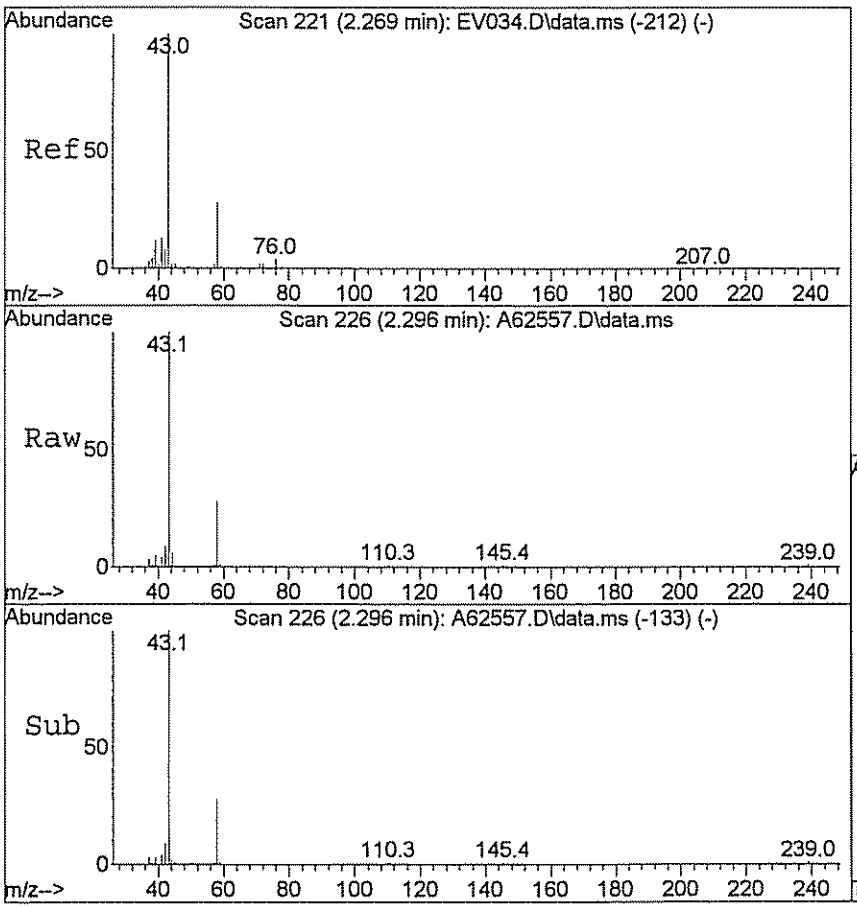


#15
Methylene chloride
Concen: 2.25 ug/L
RT: 2.590 min Scan# 281
Delta R.T. -0.005 min
Lab File: A62557.D
Acq: 26 Mar 2009 4:42

Tgt Ion: 84 Resp: 1043

Ion	Ratio	Lower	Upper
84	100		
49	233.7	125.9	188.9#

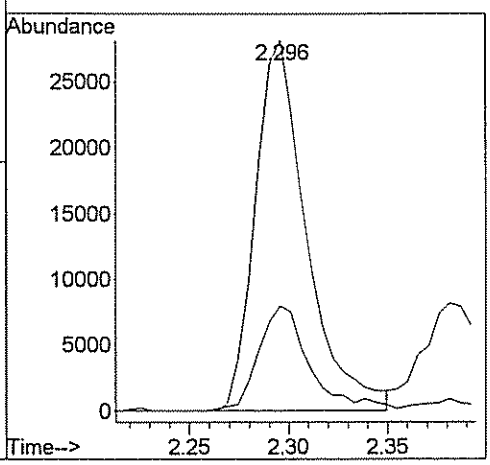




#19
Acetone
Concen: 80.60 ug/L
RT: 2.296 min Scan# 226
Delta R.T. 0.000 min
Lab File: A62557.D
Acq: 26 Mar 2009 4:42

Tgt Ion: 43 Resp: 50844

Ion	Ratio	Lower	Upper
43	100		
58	28.4	25.2	37.8



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-019-1/3
Sample Volume :	5	Lab File ID :	A62559.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	0.76	J
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.5	
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-019-1/3
Sample Volume :	5	Lab File ID :	A62559.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	34	
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	38	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-019-1/3
Sample Volume :	5	Lab File ID :	A62559.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	17	
156-59-2	cis-1,2-Dichloroethene	110	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	5.3	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62559.D
Acq On : 26 Mar 2009 5:23
Operator : SM
Sample : 903093-007
Misc : OUI-16GW34-0309,CH2M HILL,WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 27 15:38:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

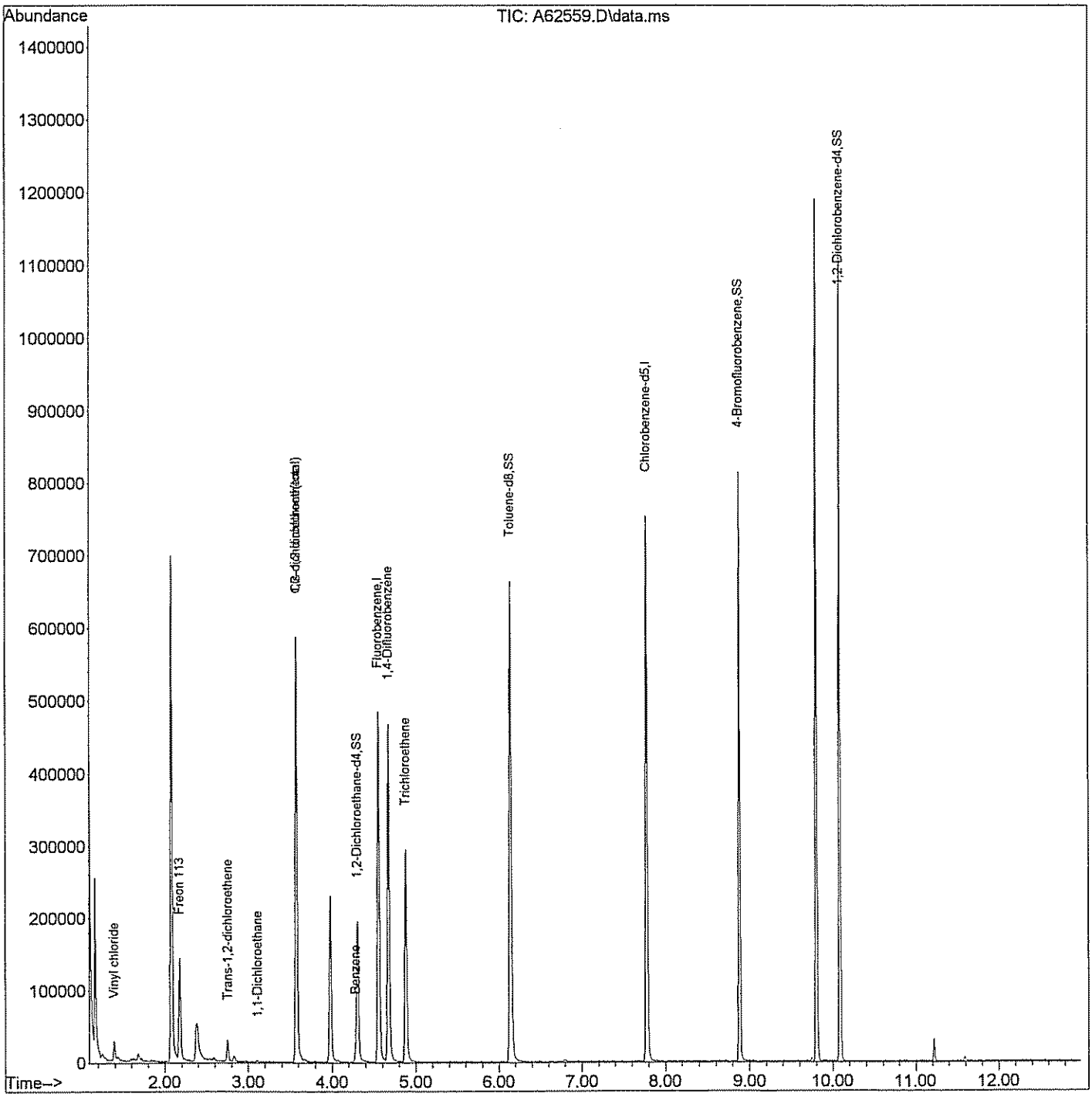
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	361674	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	339026	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	366562	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	101907	53.04	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.08%			
54) Toluene-d8	6.142	98	407083	51.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.64%			
76) 4-Bromofluorobenzene	8.881	95	160773	46.53	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 93.06%			
92) 1,2-Dichlorobenzene-d4	10.085	152	196168	57.89	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.78%			
Target Compounds						Qvalue
4) Vinyl chloride	1.392	62	26104	17.44	ug/L	93
9) Freon 113	2.178	101	39173	34.23	ug/L	88
16) Trans-1,2-dichloroethene	2.756	96	8064	5.34	ug/L #	74
18) 1,1-Dichloroethane	3.114	63	2066	0.76	ug/L #	78
28) Cis-1,2-dichloroethene	3.574	96	201029	109.79	ug/L	80
29) 1,2-dichloroethene(total)	3.574	96	211201m	108.97	ug/L	
45) Benzene	4.280	78	10637	1.48	ug/L	100
47) Trichloroethene	4.885	95	69253	37.58	ug/L #	68

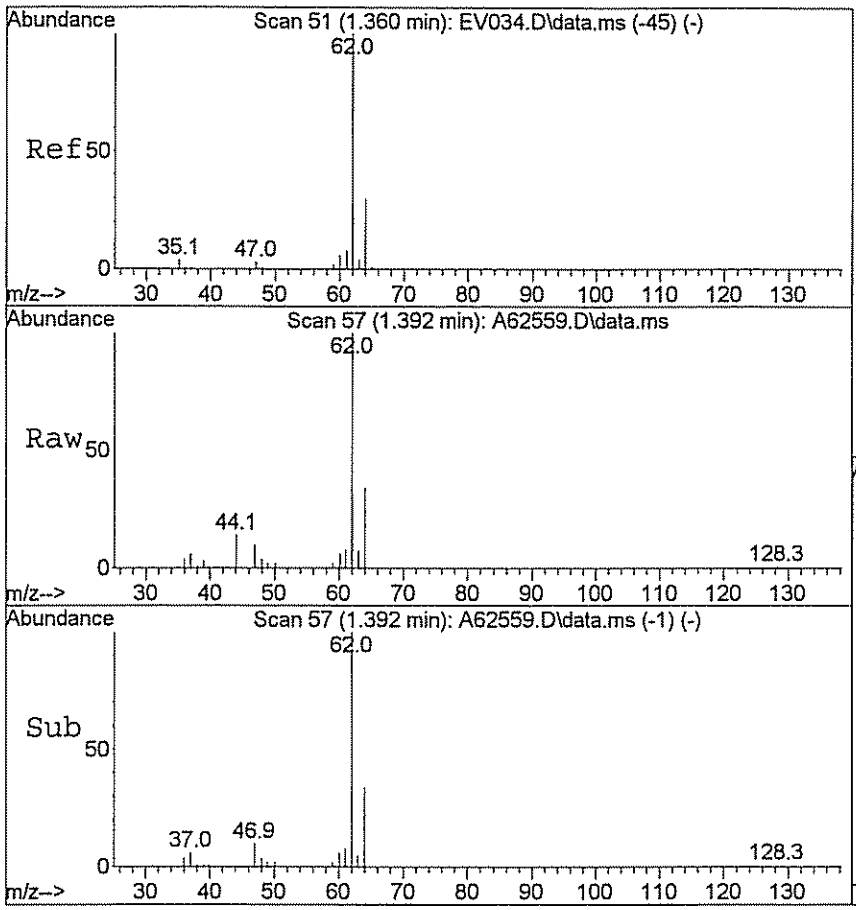
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62559.D
Acq On : 26 Mar 2009 5:23
Operator : SM
Sample : 903093-007
Misc : OUI-16GW34-0309,CH2M HILL,WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 27 15:38:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

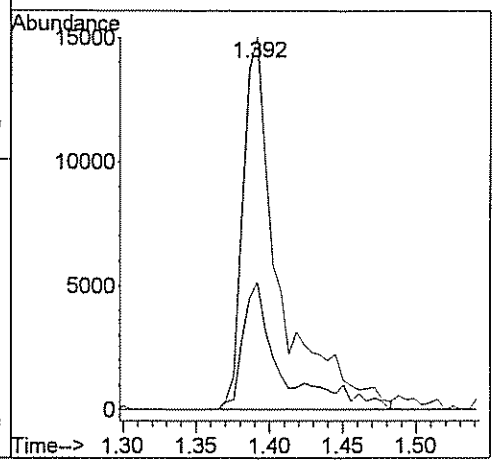


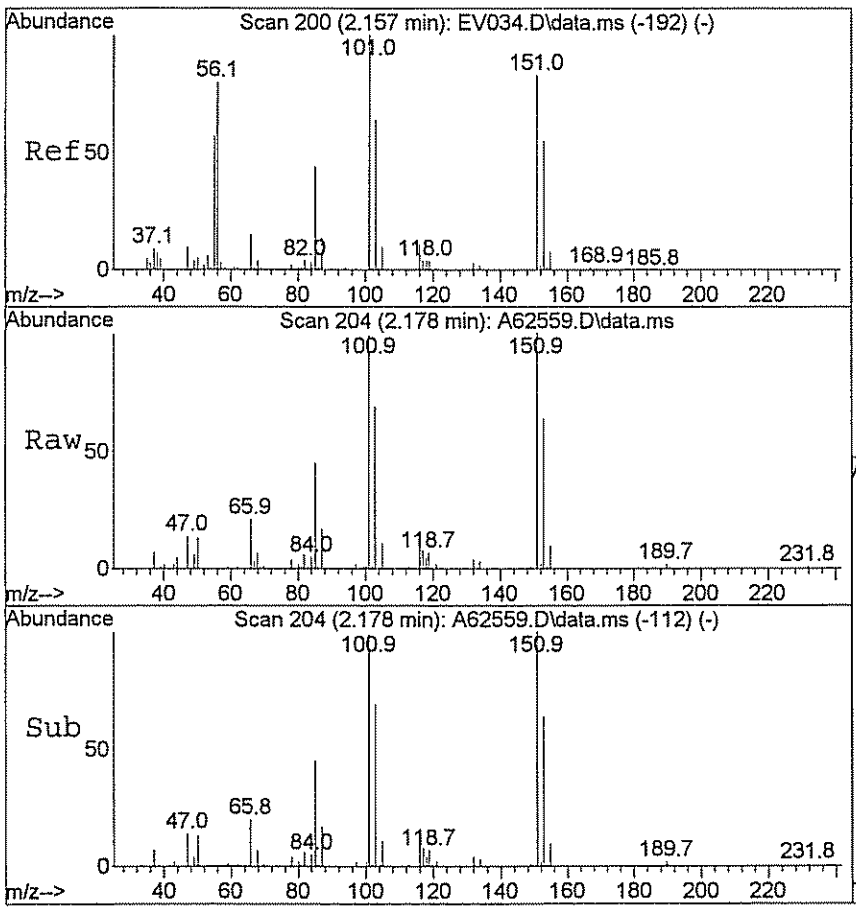


#4
Vinyl chloride
Concen: 17.44 ug/L
RT: 1.392 min Scan# 57
Delta R.T. -0.005 min
Lab File: A62559.D
Acq: 26 Mar 2009 5:23

Tgt Ion: 62 Resp: 26104

Ion	Ratio	Lower	Upper
62	100		
64	26.6	24.5	36.7

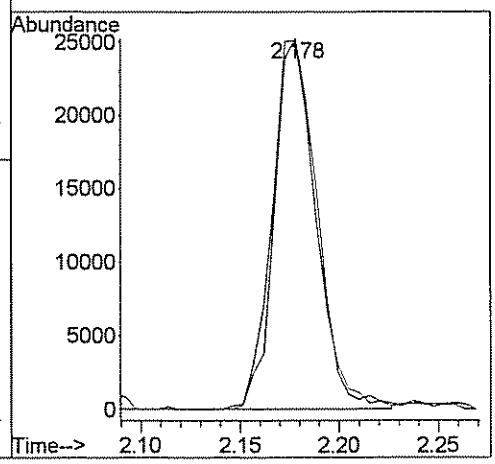


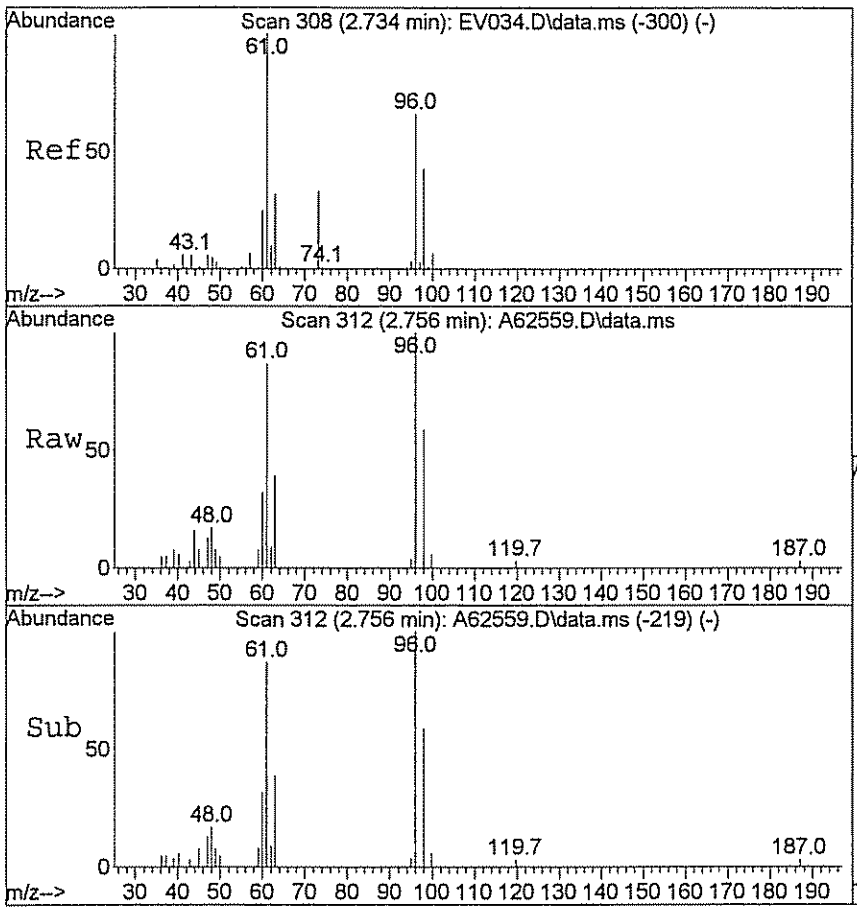


#9
Freon 113
Concen: 34.23 ug/L
RT: 2.178 min Scan# 204
Delta R.T. -0.005 min
Lab File: A62559.D
Acq: 26 Mar 2009 5:23

Tgt Ion:101 Resp: 39173

Ion	Ratio	Lower	Upper
101	100		
151	97.5	69.1	103.7

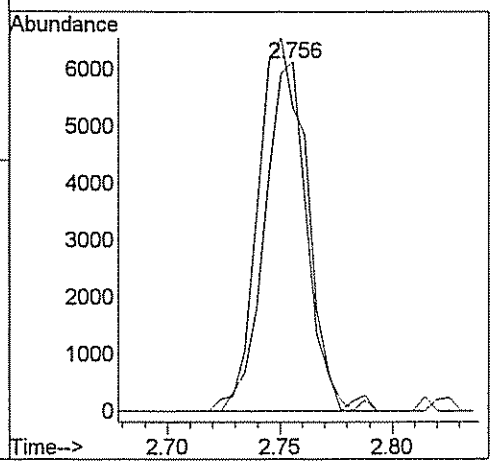


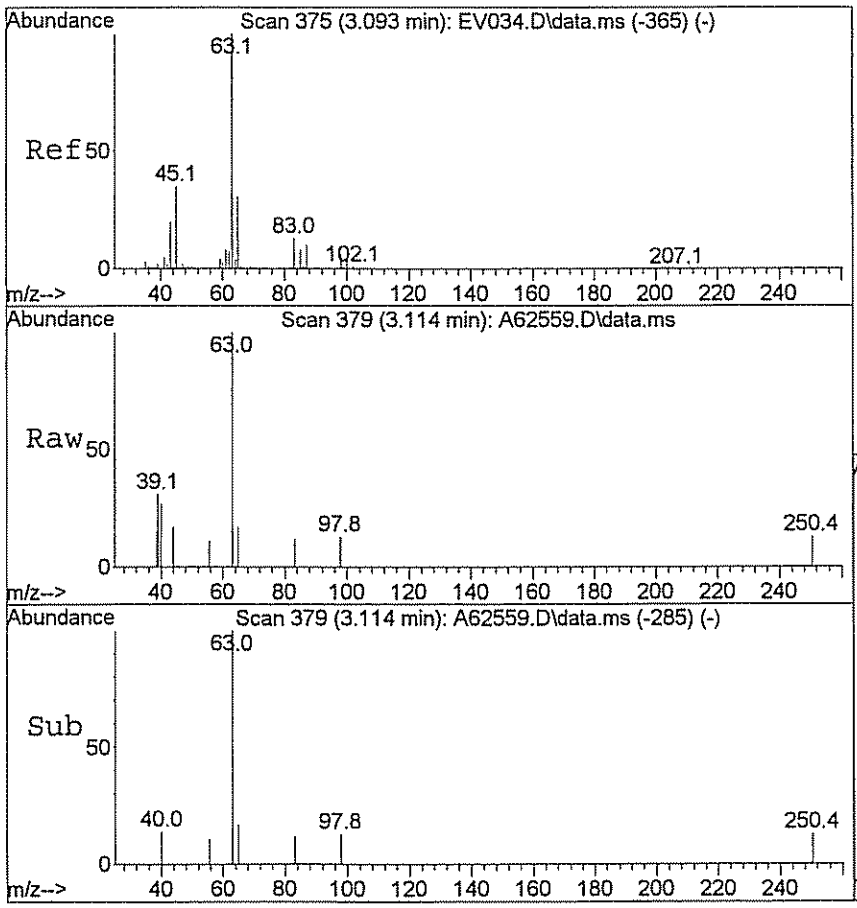


#16
Trans-1,2-dichloroethene
Concen: 5.34 ug/L
RT: 2.756 min Scan# 312
Delta R.T. -0.000 min
Lab File: A62559.D
Acq: 26 Mar 2009 5:23

Tgt Ion: 96 Resp: 8064

Ion	Ratio	Lower	Upper
96	100		
61	121.2	124.0	186.0#

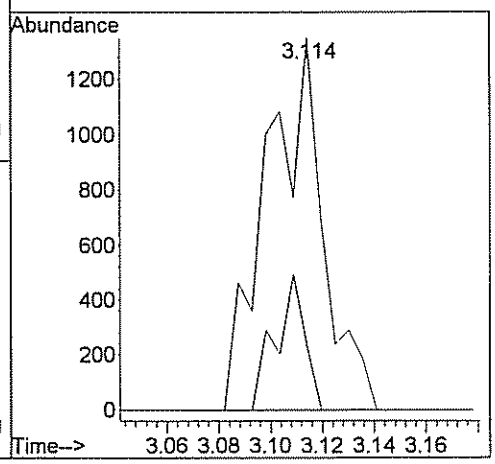


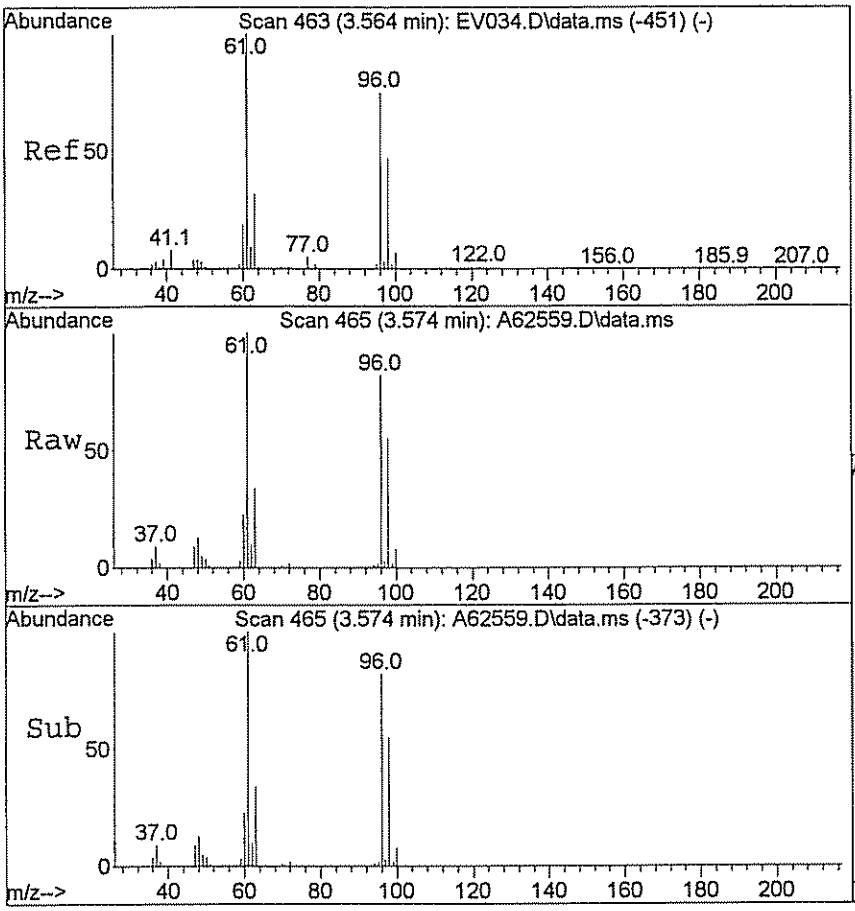


#18
1,1-Dichloroethane
Concen: 0.76 ug/L
RT: 3.114 min Scan# 379
Delta R.T. 0.005 min
Lab File: A62559.D
Acq: 26 Mar 2009 5:23

Tgt Ion: 63 Resp: 2066

Ion	Ratio	Lower	Upper
63	100		
65	18.8	25.0	37.4#

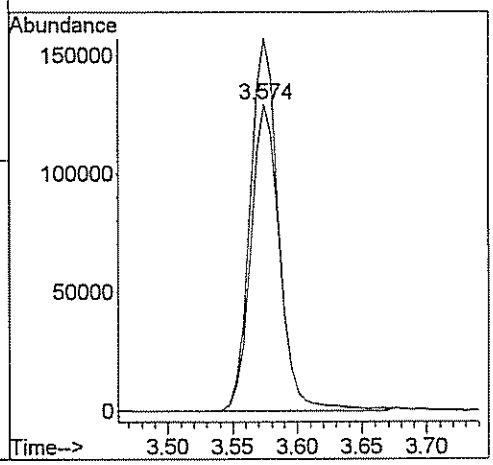


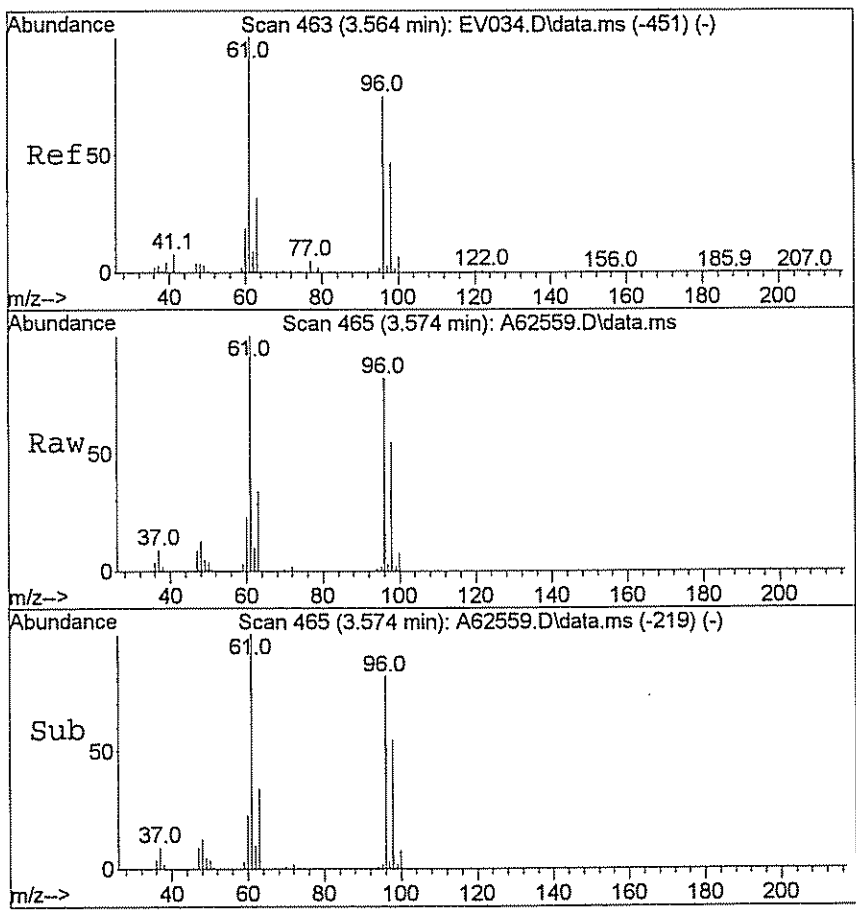


#28
Cis-1,2-dichloroethene
Concen: 109.79 ug/L
RT: 3.574 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62559.D
Acq: 26 Mar 2009 5:23

Tgt Ion: 96 Resp: 201029

Ion	Ratio	Lower	Upper
96	100		
61	119.4	115.0	172.6

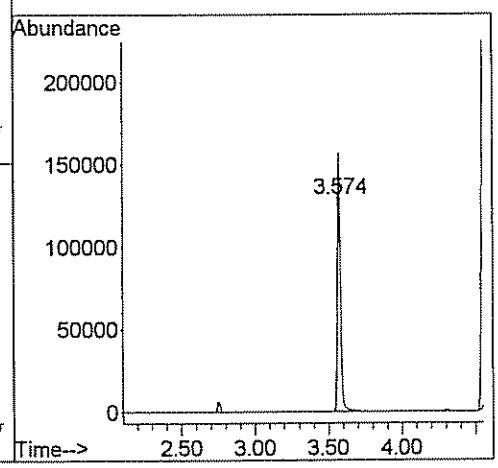


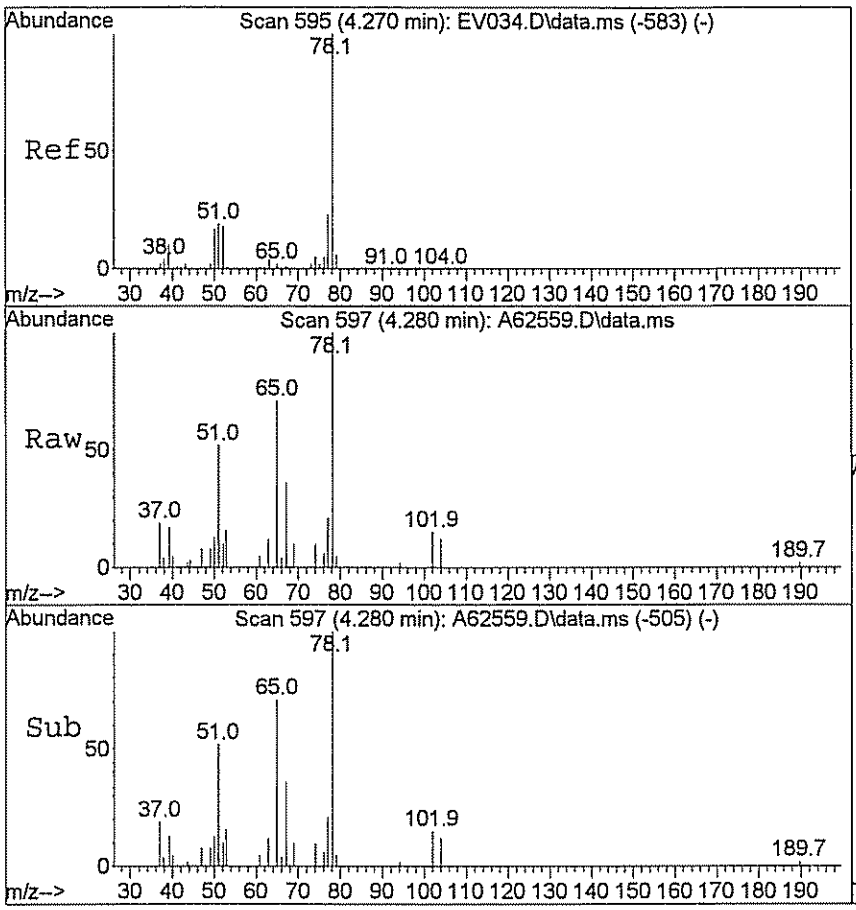


#29
1,2-dichloroethene(total)
Concen: 108.97 ug/L m
RT: 3.574 min Scan# 465
Delta R.T. 0.818 min
Lab File: A62559.D
Acq: 26 Mar 2009 5:23

Tgt Ion: 96 Resp: 211201

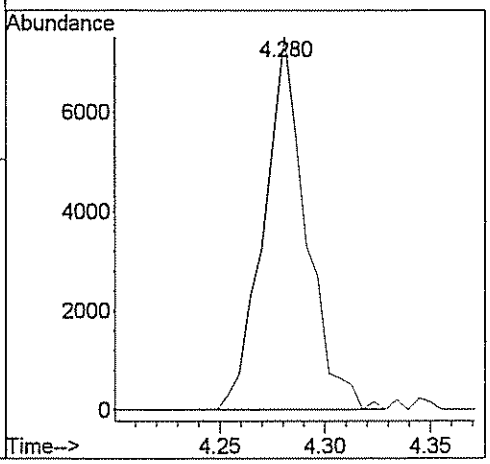
Ion	Ratio	Lower	Upper
96	100		
61	4.6	115.0	172.6#

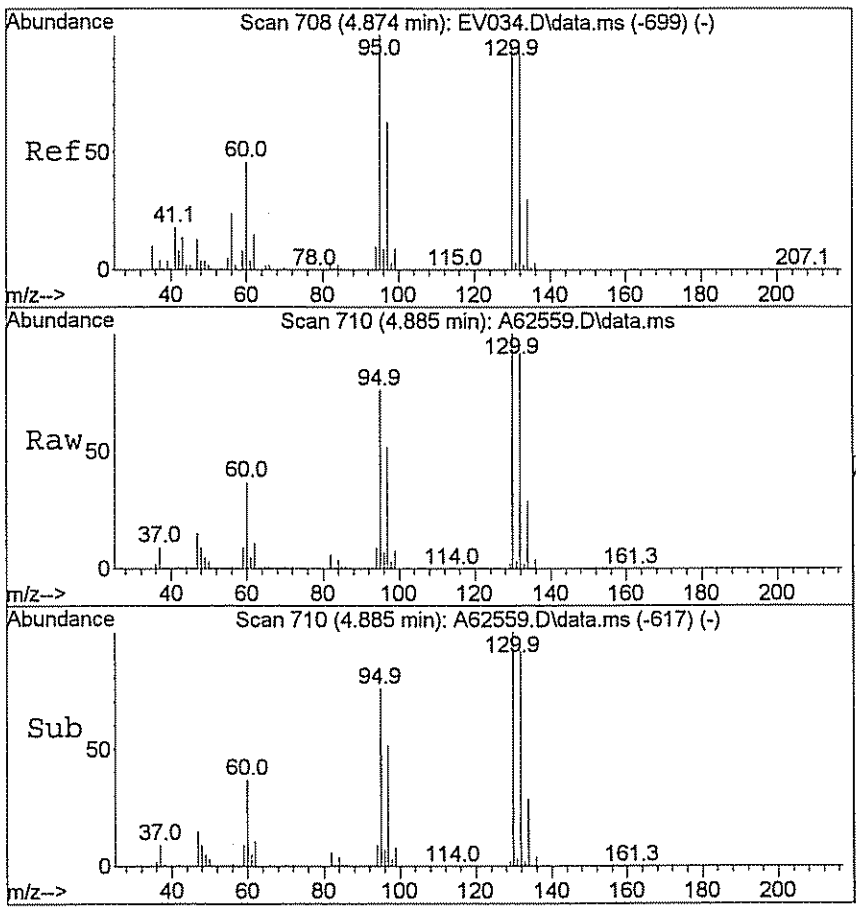




#45
Benzene
Concen: 1.48 ug/L
RT: 4.280 min Scan# 597
Delta R.T. -0.005 min
Lab File: A62559.D
Acq: 26 Mar 2009 5:23

Tgt Ion: 78 Resp: 10637

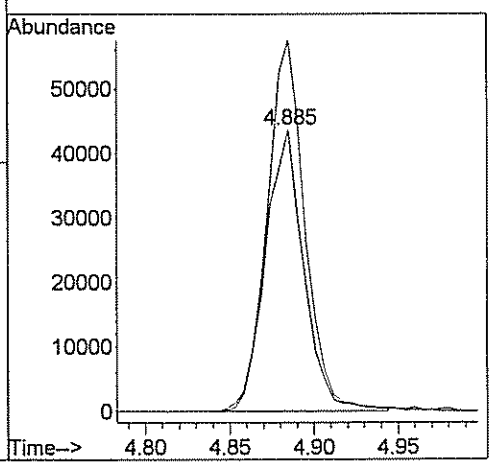




#47
Trichloroethene
Concen: 37.58 ug/L
RT: 4.885 min Scan# 710
Delta R.T. -0.000 min
Lab File: A62559.D
Acq: 26 Mar 2009 5:23

Tgt Ion: 95 Resp: 69253

Ion	Ratio	Lower	Upper
95	100		
130	131.2	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-022-1/3
Sample Volume :	5	Lab File ID :	A62561.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-022-1/3
Sample Volume :	5	Lab File ID :	A62561.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

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SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-022-1/3
Sample Volume :	5	Lab File ID :	A62561.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62561.D
Acq On : 26 Mar 2009 6:03
Operator : SM
Sample : 903093-008
Misc : OUI-16GW35-0309,CH2M HILL,WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 15:30:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

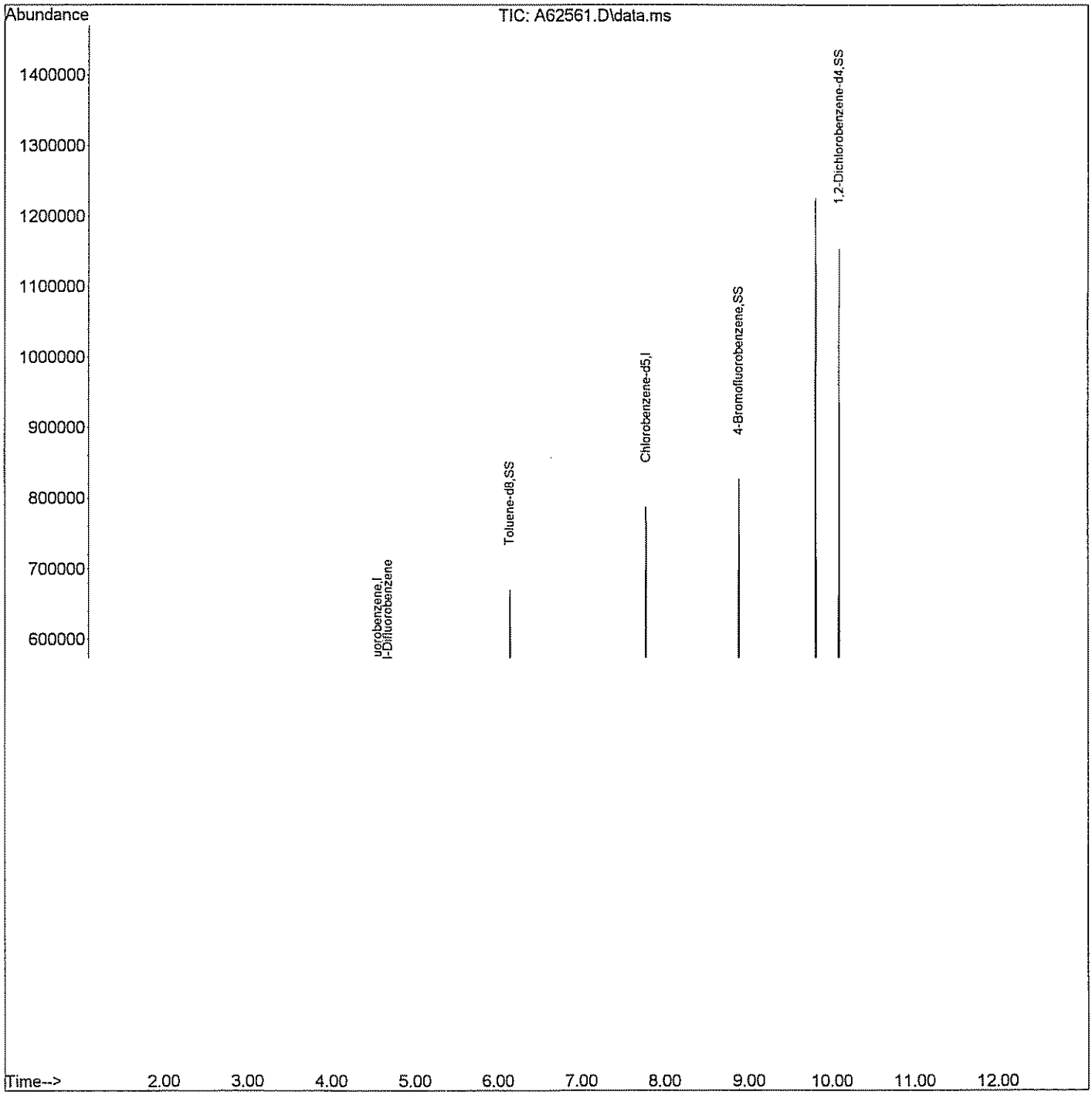
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	373168	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	346398	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	372269	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	98960	49.92	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.84%			
54) Toluene-d8	6.142	98	417692	52.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.08%			
76) 4-Bromofluorobenzene	8.881	95	169907	48.42	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.84%			
92) 1,2-Dichlorobenzene-d4	10.085	152	202324	58.79	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.58%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62561.D
Acq On : 26 Mar 2009 6:03
Operator : SM
Sample : 903093-008
Misc : OUI-16GW35-0309,CH2M HILL,WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 15:30:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62561.D
Acq On : 26 Mar 2009 6:03
Operator : SM
Sample : 903093-008
Misc : OUI-16GW35-0309,CH2M HILL,WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 15:30:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	373168	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	346398	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	372269	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	98960	49.92	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.84%			
54) Toluene-d8	6.142	98	417692	52.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.08%			
76) 4-Bromofluorobenzene	8.881	95	169907	48.42	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.84%			
92) 1,2-Dichlorobenzene-d4	10.085	152	202324	58.79	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.58%			

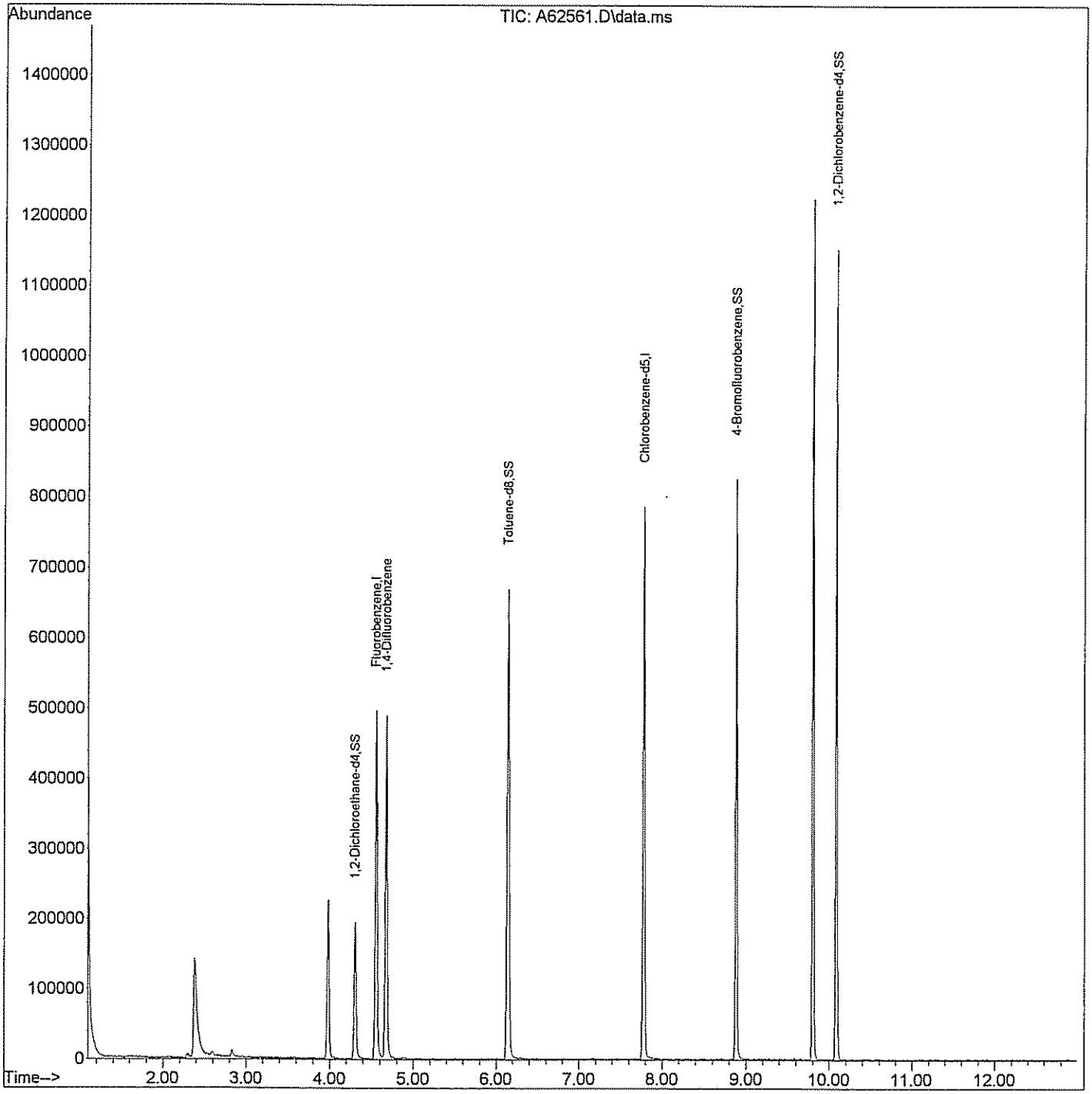
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62561.D
Acq On : 26 Mar 2009 6:03
Operator : SM
Sample : 903093-008
Misc : OUI-16GW35-0309,CH2M HILL,WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 27 15:30:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-009-025-1/3
Sample Volume :	5	Lab File ID :	A62563.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-009-025-1/3
Sample Volume :	5	Lab File ID :	A62563.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-009-025-1/3
Sample Volume :	5	Lab File ID :	A62563.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62563.D
Acq On : 26 Mar 2009 6:44
Operator : SM
Sample : 903093-009
Misc : OUI-TB06-0309,CH2M HILL,WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 15:29:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

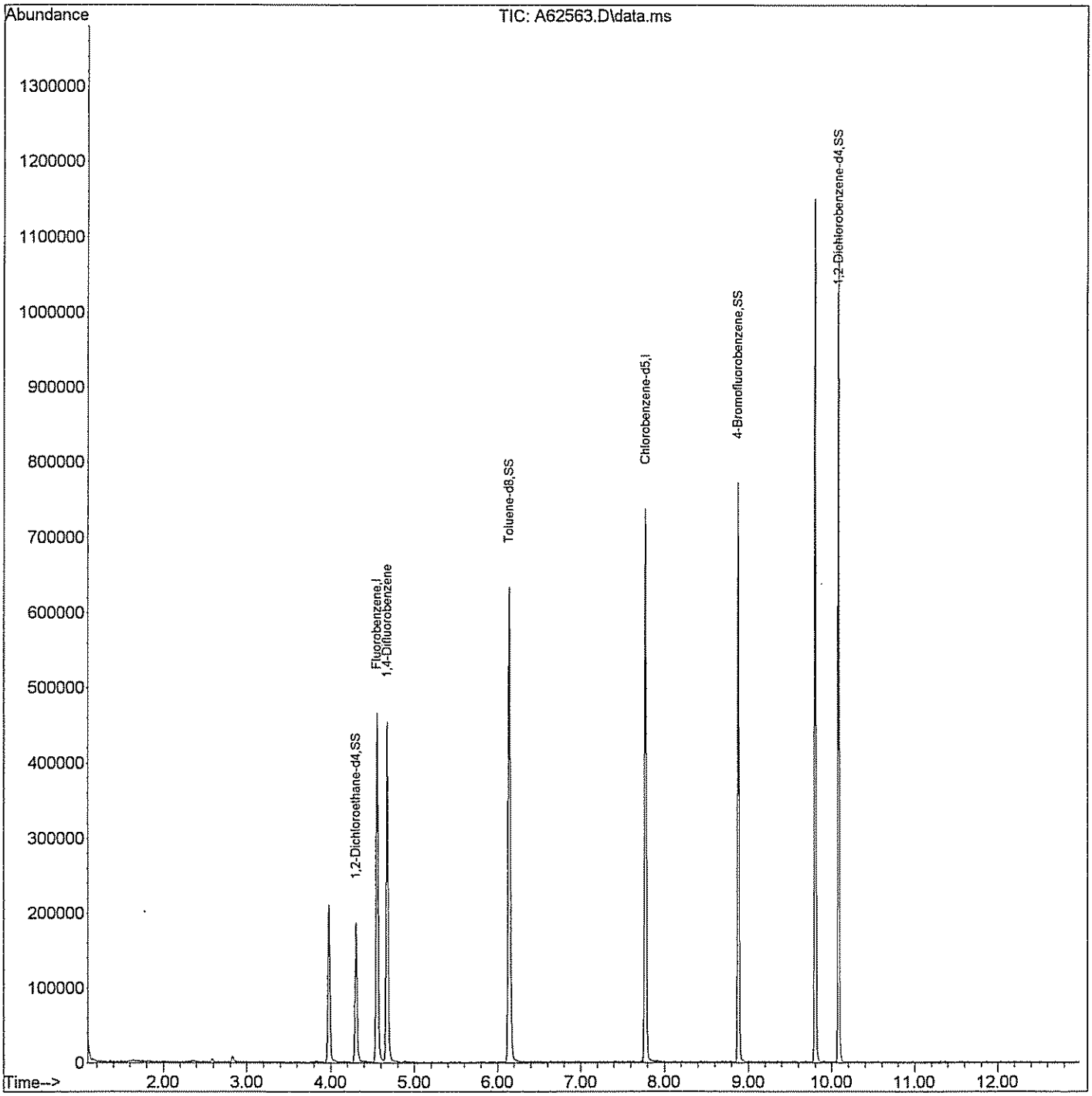
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	357577	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	330360	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	353392	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	95545	50.30	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.60%			
54) Toluene-d8	6.142	98	390127	50.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 101.92%			
76) 4-Bromofluorobenzene	8.881	95	155476	46.67	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 93.34%			
92) 1,2-Dichlorobenzene-d4	10.085	152	190058	58.17	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.34%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62563.D
Acq On : 26 Mar 2009 6:44
Operator : SM
Sample : 903093-009
Misc : OUI-TB06-0309,CH2M HILL,WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 27 15:29:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-010-028-1/3
Sample Volume :	5	Lab File ID :	A62575.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-010-028-1/3
Sample Volume :	5	Lab File ID :	A62575.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-010-028-1/3
Sample Volume :	5	Lab File ID :	A62575.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62575.D
Acq On : 26 Mar 2009 12:53
Operator : SM
Sample : 903093-010
Misc : OUI-TB07-0309,CH2M HILL,WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 17:37:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

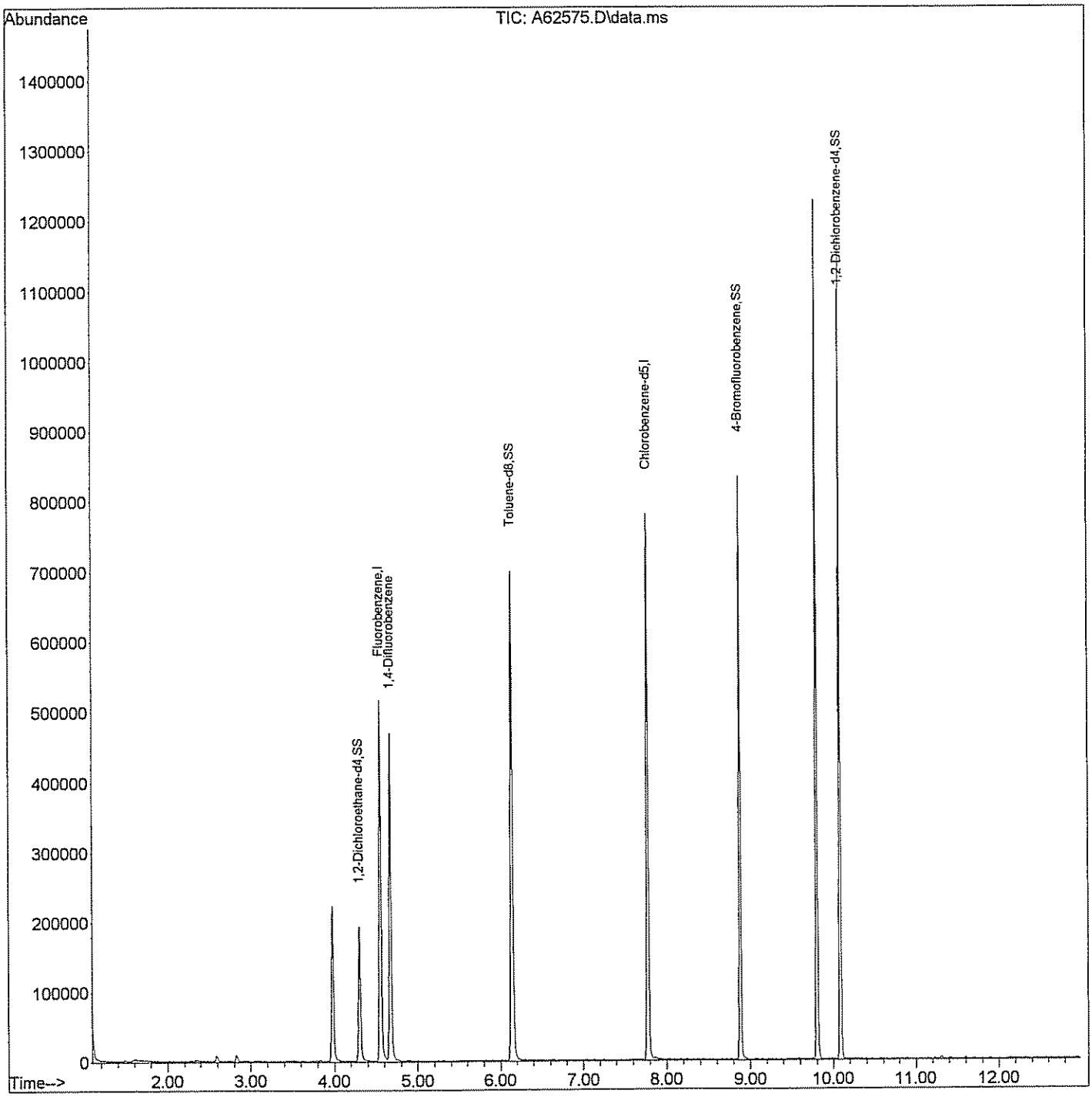
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	373285	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	355289	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	381807	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	101824	51.35	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.70%			
54) Toluene-d8	6.142	98	427778	51.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.92%			
76) 4-Bromofluorobenzene	8.881	95	171834	47.75	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.50%			
92) 1,2-Dichlorobenzene-d4	10.085	152	205878	58.33	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.66%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62575.D
Acq On : 26 Mar 2009 12:53
Operator : SM
Sample : 903093-010
Misc : OUI-TB07-0309,CH2M HILL,WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 17:37:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 08:06:42 2009
Response Via : Initial Calibration

Calibration Files
1 =A62207.D 5 =A62209.D 20 =A62211.D 50 =A62213.D 100 =A62215.D
200 =A62219.D

		Compound	1	5	20	50	100	200	Avg	%R SD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluo...	0.067	0.085	0.103	0.098		0.090	0.089	15.40
3)		Chloromethane	0.188	0.181	0.173	0.145	0.159	0.199	0.174	11.27
4)		Vinyl chloride	0.220	0.190	0.192	0.211	0.214	0.214	0.207	6.19
5)		Bromomethane	0.218	0.069	0.099	0.078	0.114		0.115	~~51.80~~ r^2=0.9[illegible]
6)		Chloroethane		0.144	0.142	0.142	0.141	0.157	0.145	4.69
7)		Trichlorofluor...	0.154	0.245	0.282	0.290	0.307		0.256	~~23.94~~ r^2=0.999
8)		Ethyl Ether	0.163	0.157	0.165	0.189	0.188	0.206	0.178	10.84
9)		Freon 113	0.153	0.135	0.174	0.165		0.165	0.158	9.58
10)		Acrolein		0.037	0.031	0.036	0.035	0.040	0.036	9.22
11)		Tert-Butyl alc...	0.016	0.021	0.018	0.026	0.021		0.020	18.36
12)		1,1-Dichloroet...	0.177	0.162	0.167	0.188	0.193	0.202	0.182	8.55
13)		Iodomethane	0.457	0.111	0.200	0.091	0.247	0.161	0.211	63.20
14)		Acetonitrile	0.079	0.075	0.093	0.124	0.139	0.138	0.108	~~26.99~~ r^2=0.999
15)		Methylene chlo...	0.375	0.222	0.213	0.224	0.235	0.243	0.252	~~24.26~~ r^2=0.999
16)		Trans-1,2-dich...	0.209	0.186	0.197	0.221	0.230		0.209	8.57
17)		Isopropyl ether	0.794	0.717	0.779	0.874	0.894		0.812	8.93
18)		1,1-Dichloroet...	0.325	0.334	0.368	0.411	0.431		0.374	12.44
19)		Acetone	0.151	0.086	0.070	0.091	0.084	0.086	0.095	~~30.23~~ r^2=0.999
20)		Methyl Acetate	0.225	0.217	0.185	0.256		0.048	0.186	~~43.60~~ r^2=0.973
21)		MTBE	0.473	0.510	0.527	0.610	0.604		0.545	11.02
22)		Carbon disulfide	1.024	0.568	0.589	0.610	0.643	0.638	0.679	~~25.30~~ r^2=0.999
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile		0.059	0.058	0.067	0.062	0.071	0.063	8.81
25)		Chloroprene	0.352	0.318	0.337	0.354	0.398	0.383	0.357	8.23
26)	T	n-Heptane	0.229	0.156	0.188	0.173	0.184	0.166	0.183	14.14
27)		2,2-Dichloropr...	0.284	0.268		0.334	0.340	0.338	0.313	10.86
28)		Cis-1,2-dichlo...	0.280	0.214		0.253	0.263	0.256	0.253	9.47
29)		1,2-dichloroet...	0.366		0.223	0.242	0.248	0.260	0.268	21.04
30)		Propionitrile	0.028	0.029	0.028	0.035	0.031	0.036	0.031	11.14
31)		Bromochloromet...	0.088	0.091	0.107	0.119	0.122	0.129	0.109	15.51
32)		Tetrahydrofuran	0.047	0.049	0.049	0.055	0.049	0.059	0.051	9.52
33)		Chloroform	0.515	0.347	0.353	0.399	0.446	0.498	0.426	16.82
34)		Cyclohexane	0.560	0.302	0.371	0.358	0.395	0.363	0.392	~~22.17~~ r^2=0.998
35)		1,1,1-Trichlor...	0.289	0.274	0.307	0.333	0.343	0.363	0.318	10.68
36)		Carbon tetrach...	0.218	0.240	0.265	0.290	0.310	0.313	0.272	14.18
37)		Methacrylonitrile	0.141		0.144	0.175	0.176	0.213	0.170	17.12
38)		Methylcyclohexane	0.360	0.292	0.354	0.333	0.373	0.318	0.338	8.82
39)		Isobutyl Alcohol	0.011	0.014	0.017	0.016		0.015	0.015	15.42
40)	SS	1,2-Dichloroet...	0.258	0.262	0.263	0.265	0.265	0.282	0.266	3.13
41)		1,4-Difluorobenzene	----------ISTD----------							
42)		2-Butanone	0.150	0.152	0.146	0.185	0.166	0.178	0.163	9.84

Response Factor Report Instrument A

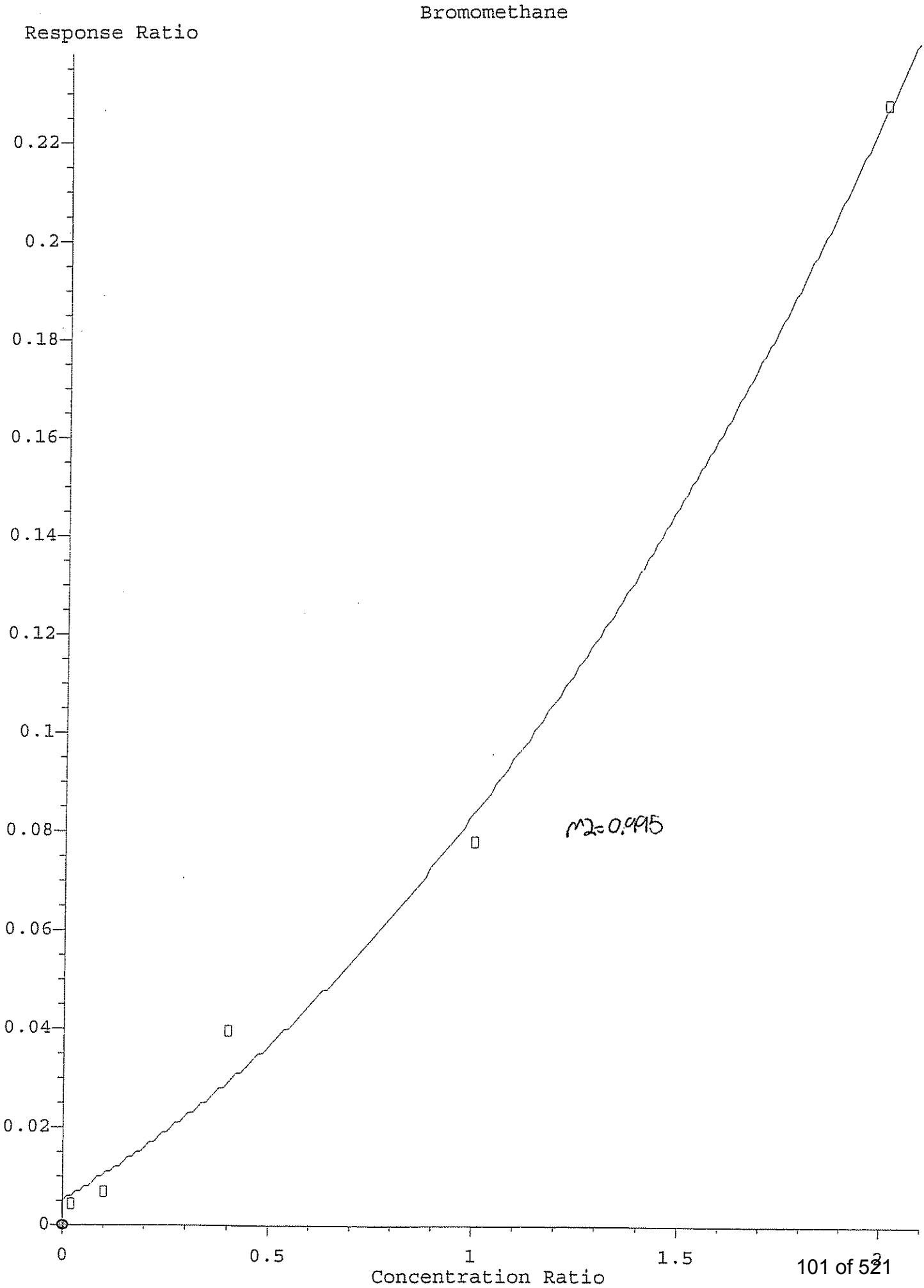
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

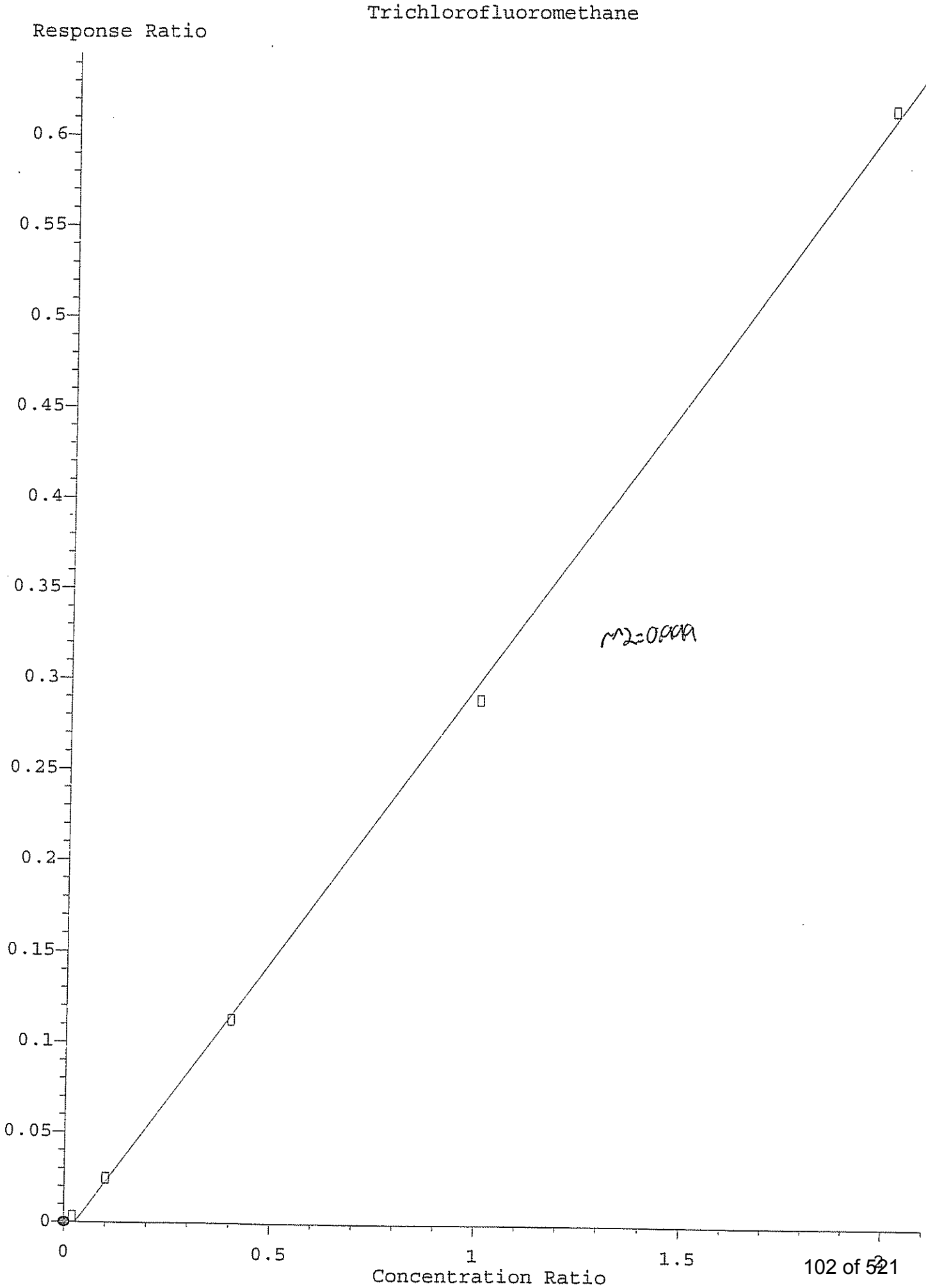
43)		1,1-Dichloropr...	0.270	0.305	0.331	0.370	0.377	0.381	0.339	13.34
44)		Vinyl Acetate	0.369	0.357		0.401	0.394	0.386	0.381	4.81
45)		Benzene	0.924	0.932	1.027	1.118	1.156	1.192	1.058	10.86
46)		1,2-Dichloroet...	0.277	0.295	0.324	0.359	0.360	0.376	0.332	12.02
47)		Trichloroethene	0.269	0.243	0.263	0.278	0.289	0.289	0.272	6.46
48)		1,2-Dichloropr...	0.226	0.230	0.263	0.298	0.305	0.305	0.271	13.65
49)		Methyl methacr...	0.215	0.205	0.171	0.201	0.185	0.202	0.196	8.01
50)		Dibromomethane	0.171	0.151	0.147	0.176	0.172	0.184	0.167	8.78
51)		Bromodichlorom...	0.338	0.315	0.334	0.376	0.376	0.385	0.354	8.07
52)		2-Chloroethylv...	0.027	0.143	0.149	0.165	0.057	0.106	0.108	51.45
53)		Cis-1,3-dichlo...	0.340	0.361		0.469	0.471	0.491	0.427	16.46
54)	SS	Toluene-d8	1.125	1.133	1.141	1.158	1.177	1.218	1.159	2.99
55)		Toluene	0.589	0.599	0.664	0.740	0.763	0.807	0.694	13.02
56)		Trans-1,3-dich...	0.273	0.355		0.433	0.417	0.455	0.387	18.95
57)		Ethyl methacry...	0.347	0.304	0.324	0.365	0.358	0.385	0.347	8.47
58)		1,1,2-Trichlor...	0.183	0.186		0.220	0.217	0.234	0.208	10.71
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)		4-Methyl-2-pen...	0.272	0.284	0.284	0.321	0.289	0.300	0.292	5.85
61)		2-Hexanone	0.175	0.219	0.196	0.238	0.214	0.220	0.210	10.29
62)		Tetrachloroethene	0.228	0.256	0.285	0.305	0.324	0.332	0.288	13.99
63)		1,3-Dichloropr...	0.361	0.399	0.395	0.451	0.441	0.448	0.416	8.74
64)		Dibromochlorom...	0.245	0.291	0.291	0.322	0.324	0.334	0.301	10.93
65)		1,2-Dibromoethane	0.246	0.242	0.248	0.270	0.266	0.271	0.257	5.13
66)		1-Chlorohexane	0.470	0.400	0.409	0.437	0.441	0.437	0.432	5.79
67)		Chlorobenzene	0.748	0.753	0.821	0.906	0.935	0.925	0.848	10.10
68)		1,1,1,2-Tetrac...	0.248	0.259	0.292	0.328	0.342	0.354	0.304	14.65
69)		Ethylbenzene	1.318	1.300	1.394	1.507	1.582	1.607	1.451	9.15
70)		m,p-Xylene	0.510	0.513	0.560	0.618	0.648		0.570	10.86
71)		o-Xylene	0.551	0.505	0.566	0.601	0.624	0.620	0.578	7.95
72)		Xylene (Total)	0.524	0.511	0.564	0.613	0.641	0.662	0.586	10.68
73)		Styrene	0.827	0.857	0.930	1.024	1.062	1.060	0.960	10.80
74)		Bromoform	0.149	0.175	0.176	0.212	0.200	0.209	0.187	13.15
75)		Isopropylbenzene	1.052	1.108	1.196	1.299	1.367	1.346	1.228	10.60
76)	SS	4-Bromofluorob...	0.468	0.466	0.474	0.477	0.477	0.465	0.471	1.16
77)		Bromobenzene	0.300	0.296	0.326	0.356	0.370	0.370	0.336	10.07
78)		1,1,2,2-Tetrac...	0.317	0.314	0.308	0.356	0.339	0.347	0.330	6.00
79)		1,2,3-Trichlor...	0.091	0.103	0.091	0.105	0.098	0.101	0.098	6.04
80)		n-Propylbenzene	1.522	1.538	1.655	1.792	1.853	1.840	1.700	8.79
81)		Trans-1,4-dich...	0.066	0.099	0.064	0.109	0.074	0.088	0.083	~~21.93~~ r^2=0.987
82)		2-Chlorotoluene	0.338	0.323	0.352	0.384	0.388	0.378	0.361	7.43
83)		4-Chlorotoluene	0.354	0.335	0.356	0.391	0.407	0.403	0.374	7.96
84)		1,3,5-Trimethy...	1.021	1.048	1.163	1.281	1.369	1.359	1.207	12.65
85)		Tert-butylbenzene	0.855	0.919	1.011	1.122	1.196	1.189	1.049	13.66
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.051	1.091	1.184	1.318	1.418	1.460	1.254	13.63
88)		Sec-Butylbenzene	1.363	1.379	1.554	1.726	1.836	1.785	1.607	12.83
89)		1,3-Dichlorobe...	0.581	0.583	0.663	0.740	0.804	0.864	0.706	16.56
90)		4-Isopropyltol...	1.162	1.185	1.338	1.507	1.641		1.367	15.11
91)		1,4-Dichlorobe...	0.581	0.624	0.679	0.749	0.800	0.815	0.708	13.52
92)	SS	1,2-Dichlorobe...	0.439	0.440	0.457	0.465	0.487	0.486	0.462	4.56
93)		1,2-Dichlorobe...	0.614	0.556		0.688	0.756	0.756	0.674	13.10
94)		n-Butylbenzene	1.300	1.191	1.253	1.396	1.500	1.454	1.349	8.94
95)		1,2-Dibromo-3-...	0.051	0.056	0.051	0.062	0.057	0.063	0.057	9.21
96)		1,2,4-Trichlor...	0.405	0.335	0.363	0.417	0.452	0.481	0.409	13.24

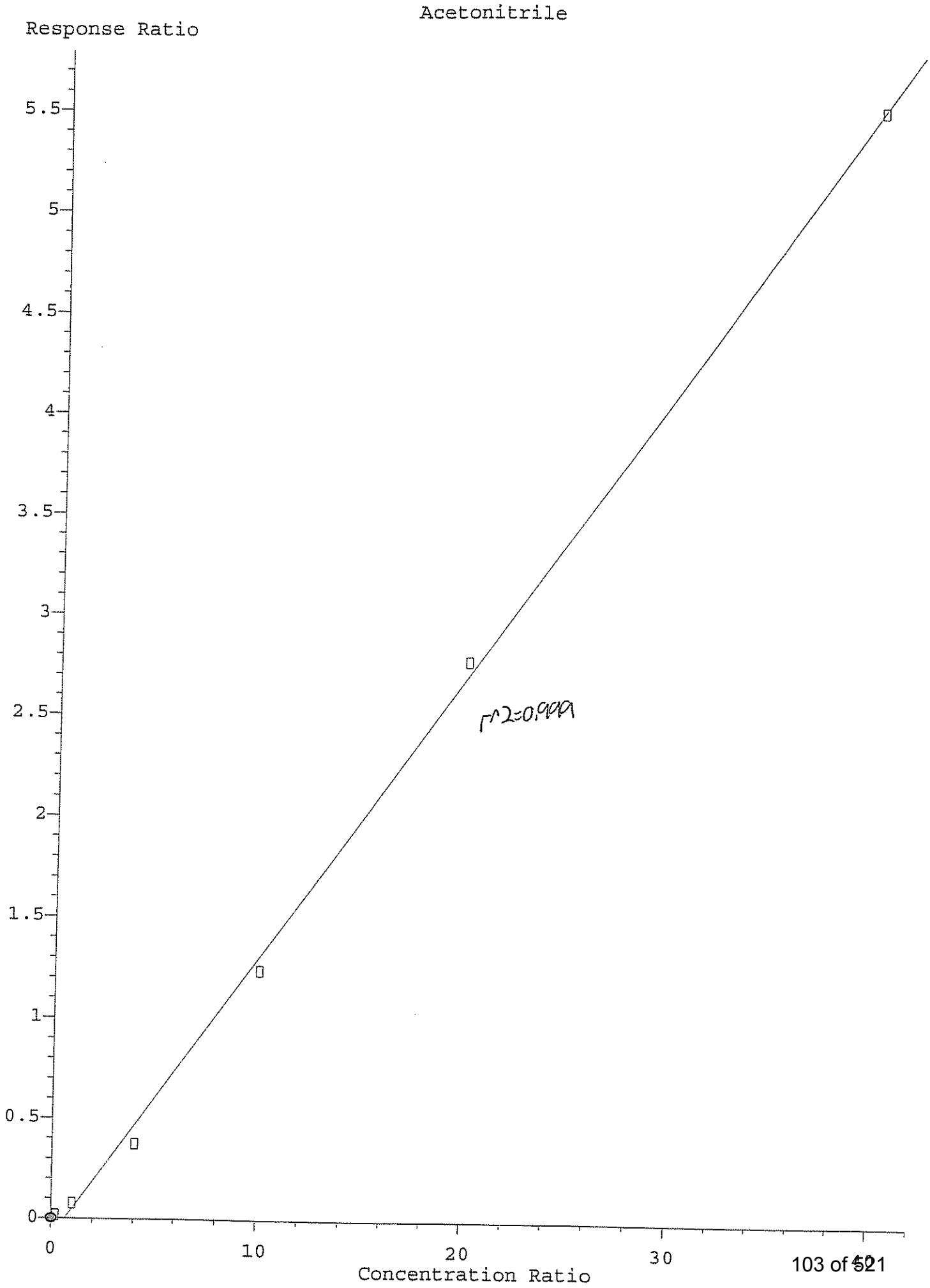
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

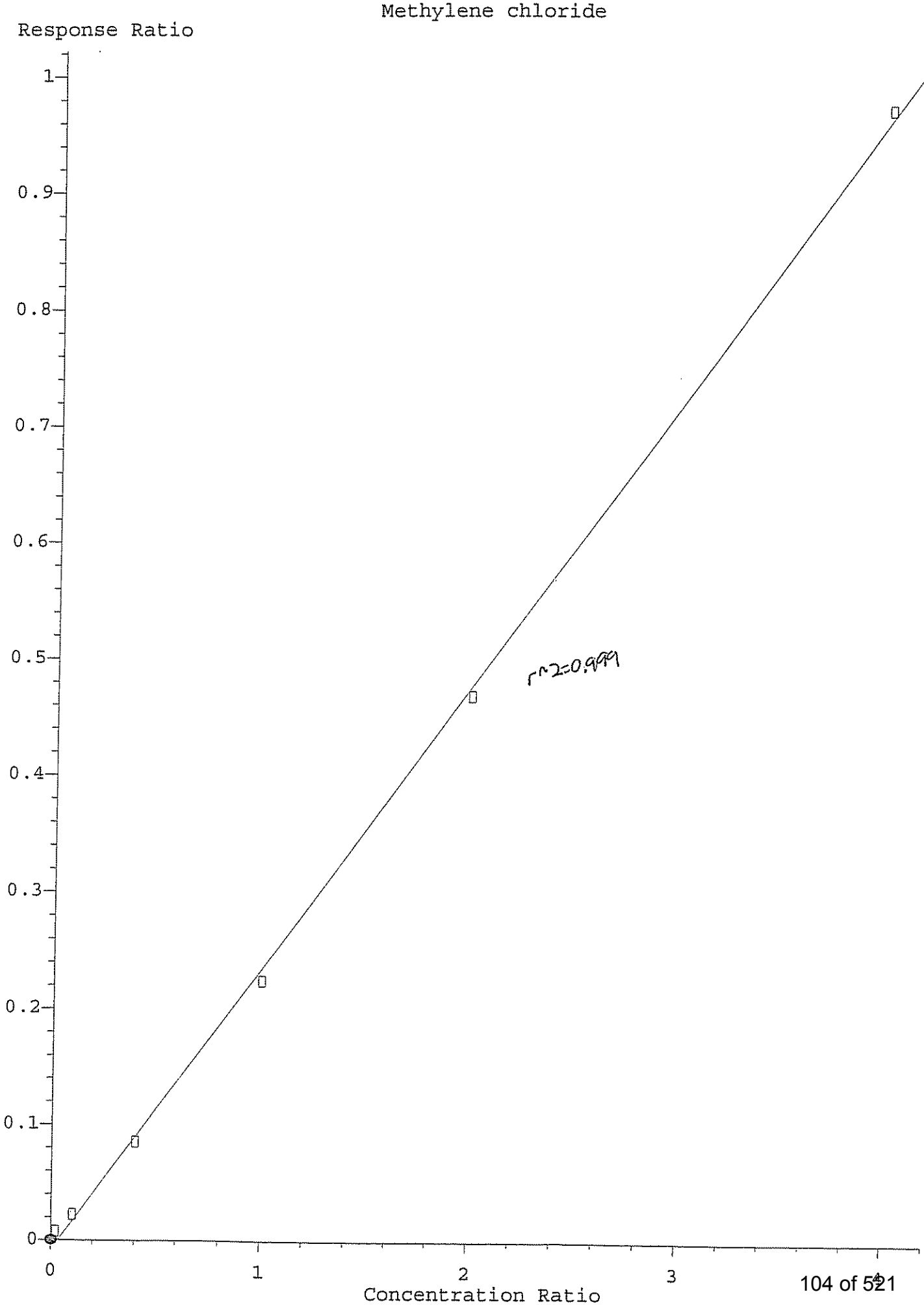
97)	Hexachlorobuta...	0.192	0.145	0.170	0.197	0.215	0.224	0.190	15.45
98)	Naphthalene	0.824	0.898	0.877	1.102	1.033	1.113	0.975	12.73
99)	1,2,3-Trichlor...	0.323	0.289	0.308	0.362	0.371	0.400	0.342	12.35

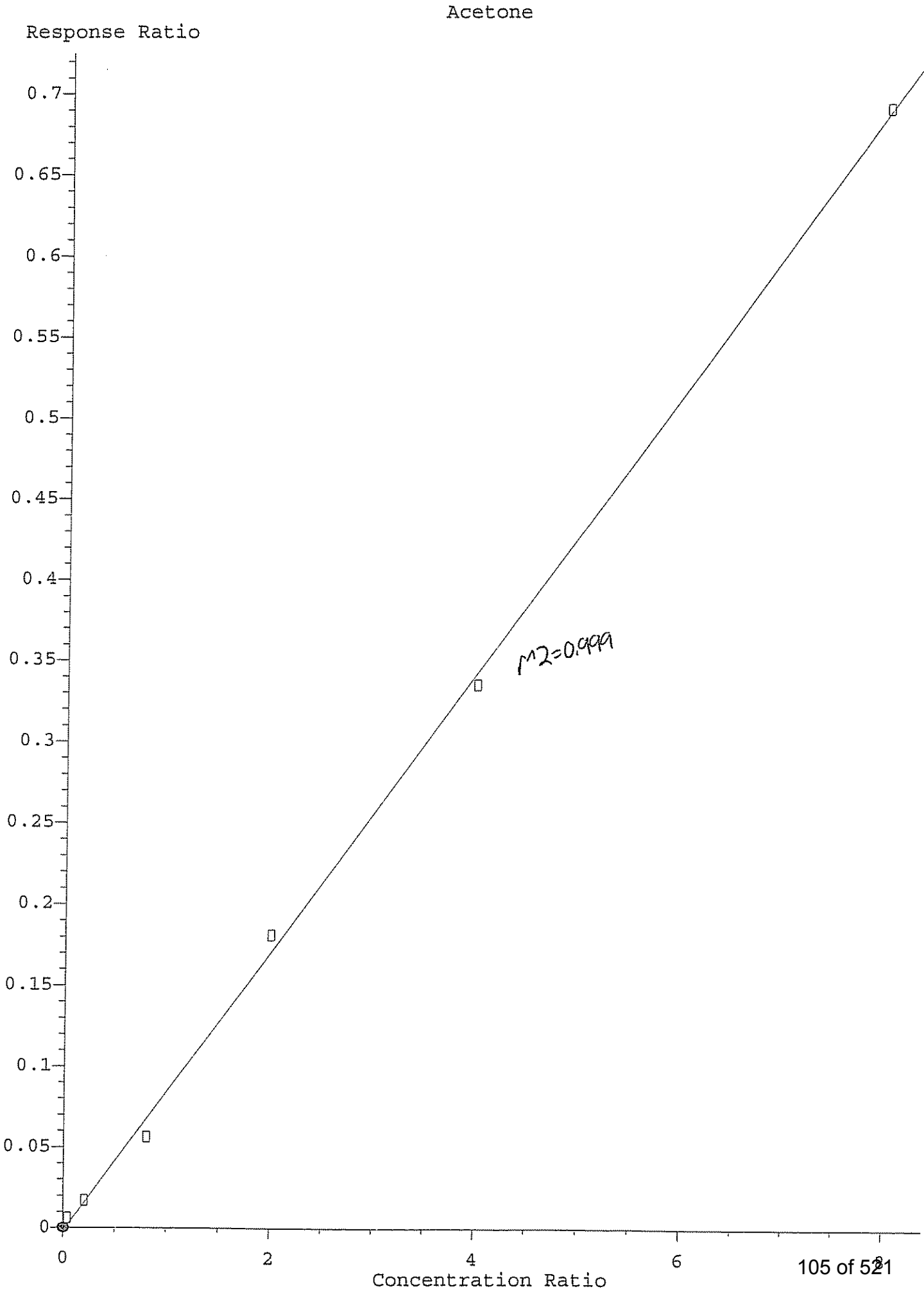
(#) = Out of Range

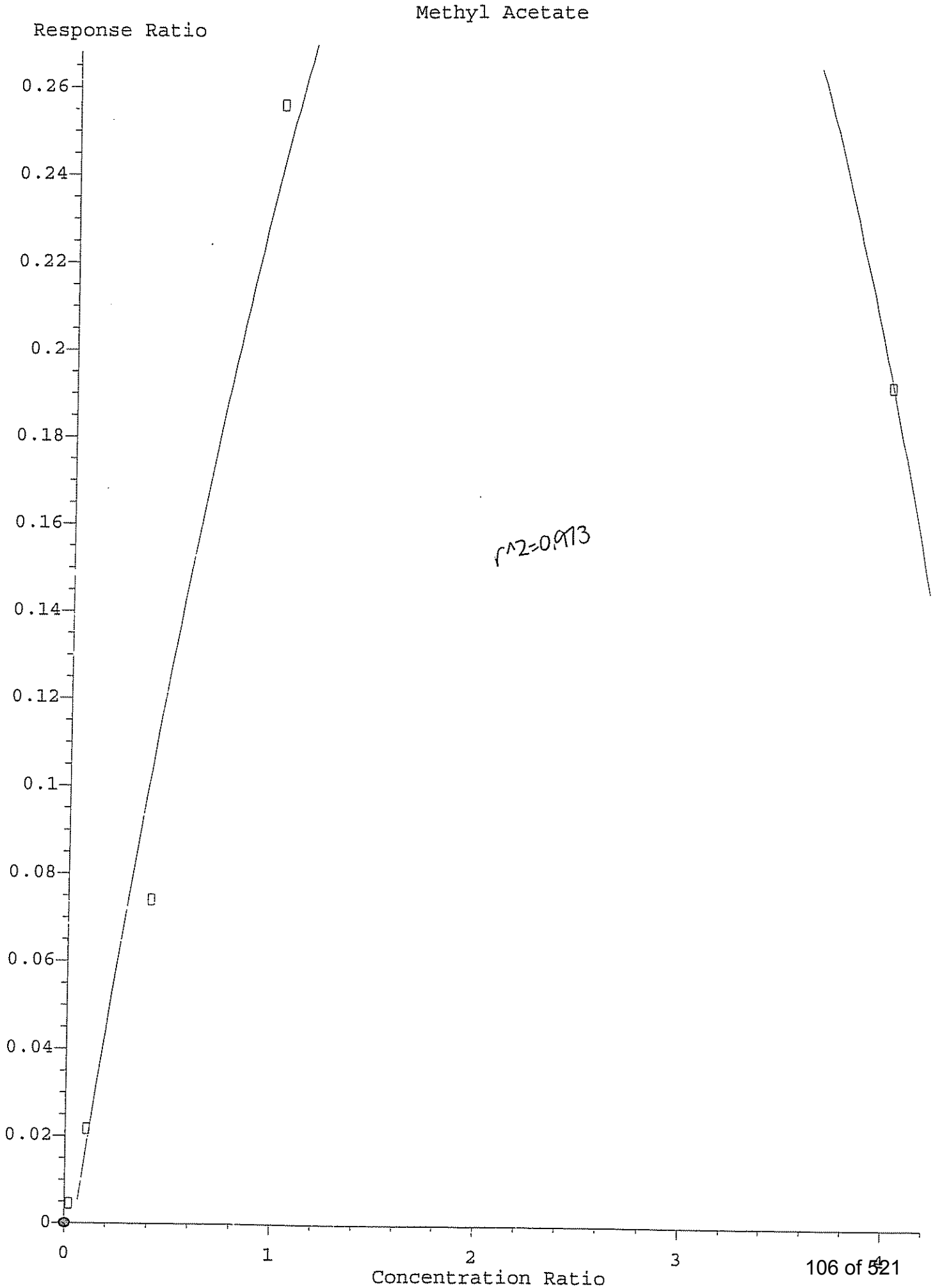

Bromomethane
Response Ratio
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.5
1
1.5
2
Concentration Ratio
r2=0.995

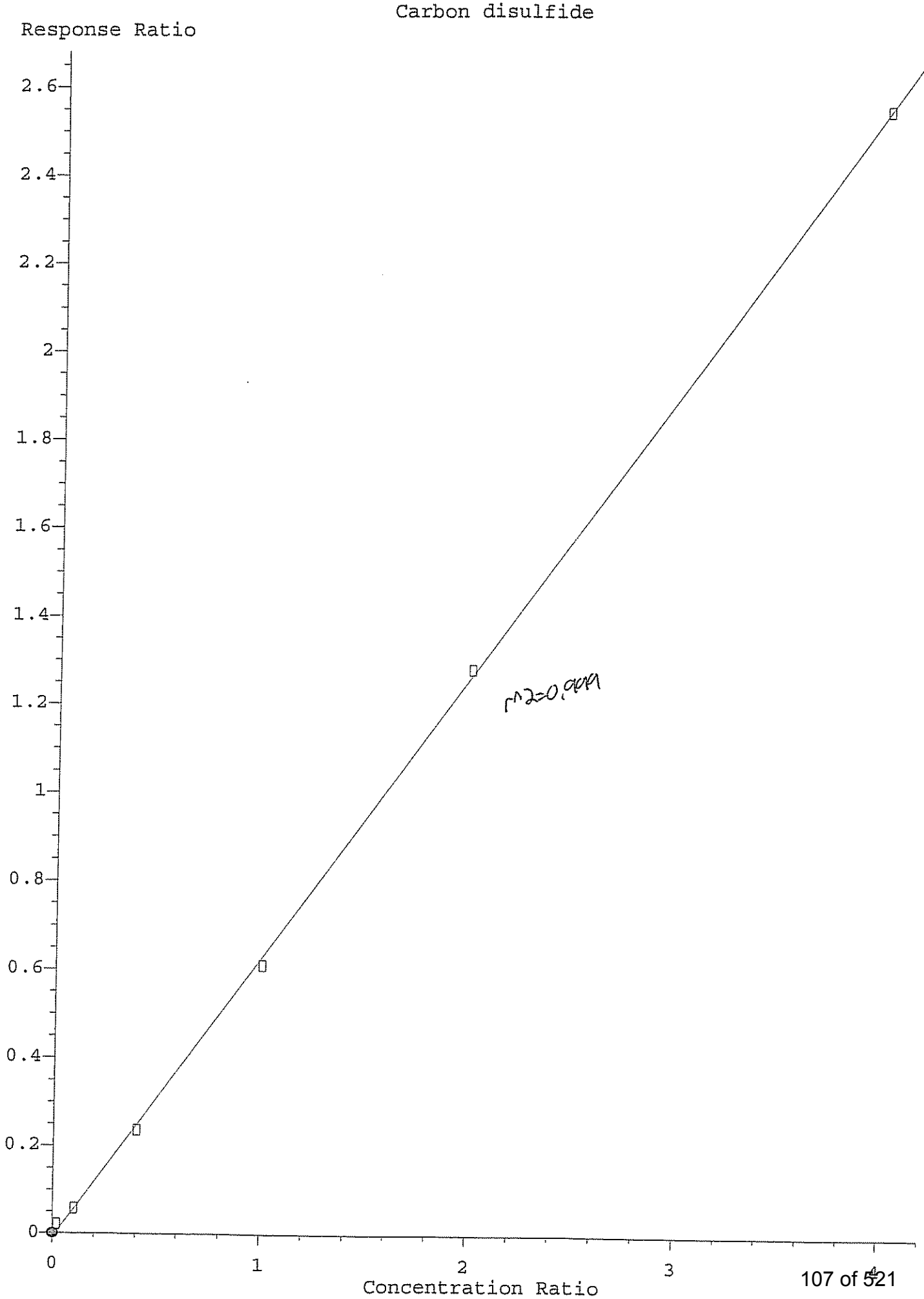

Trichlorofluoromethane
Response Ratio
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
0.5
1
1.5
2
Concentration Ratio
r^2=0.999

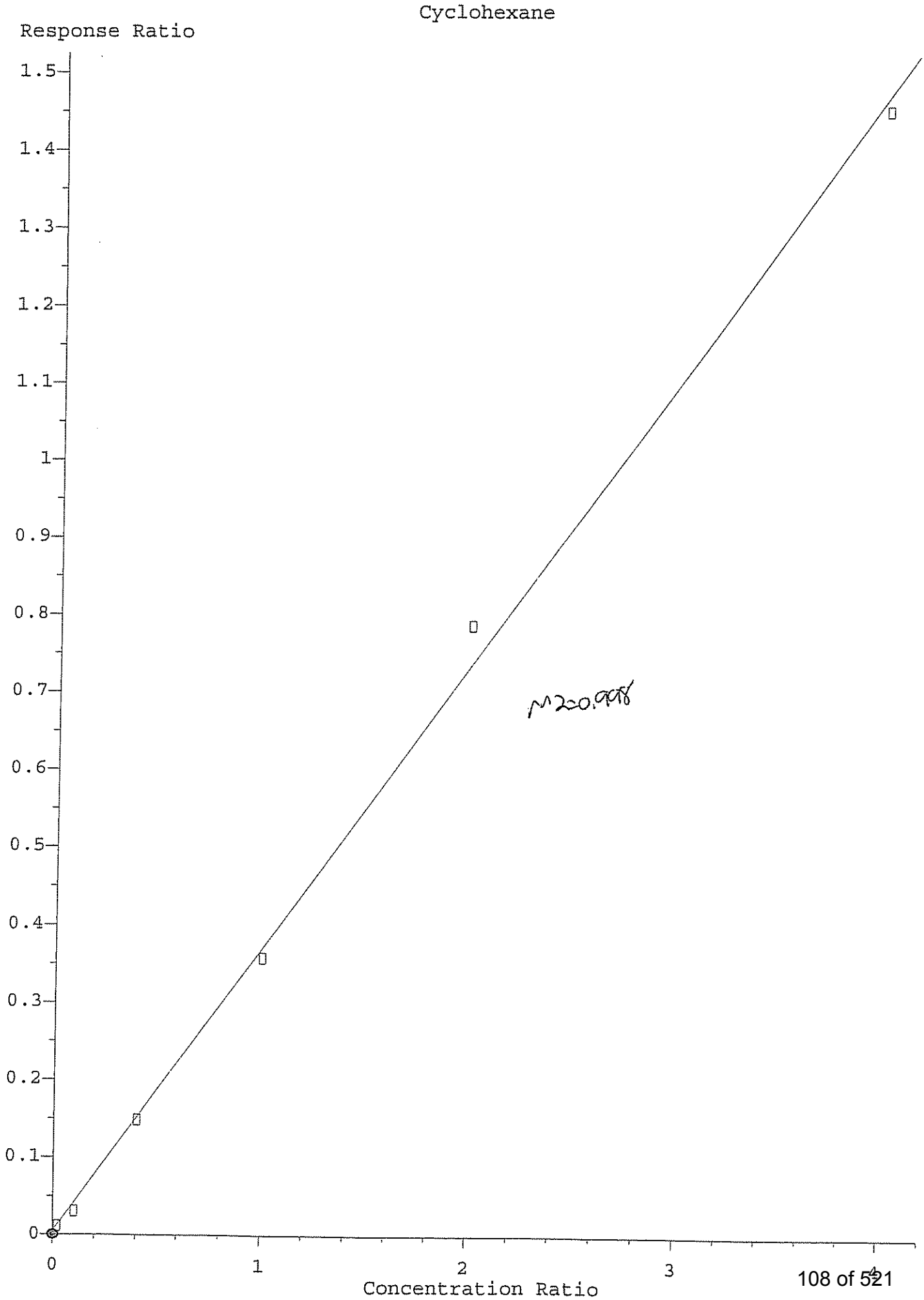

Acetonitrile
Response Ratio
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0
10
20
30
Concentration Ratio
r^2=0.999

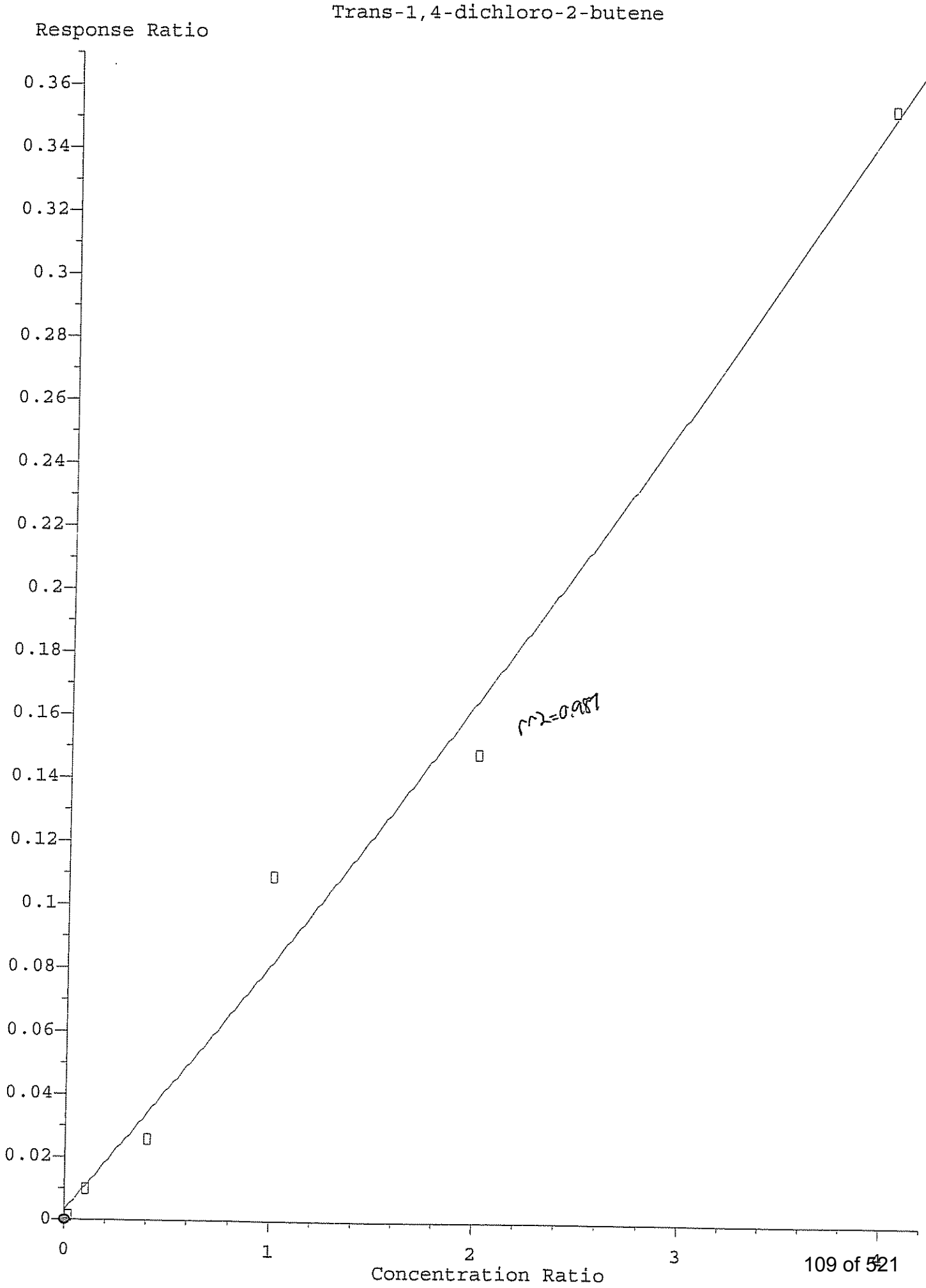

Methylene chloride
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.999


Acetone
Response Ratio
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
r^2=0.999
0
2
4
6
8
Concentration Ratio


Methyl Acetate
Response Ratio
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
r^2=0.913
0
1
2
3
Concentration Ratio


Carbon disulfide
Response Ratio
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
Concentration Ratio
r^2=0.999


Cyclohexane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.998


Trans-1,4-dichloro-2-butene
Response Ratio
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
1
2
3
Concentration Ratio
r^2=0.981

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	653851	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.682	114	545045	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	494605	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	168508	48.22	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.44%			
54) Toluene-d8	6.142	98	612948	48.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.50%			
76) 4-Bromofluorobenzene	8.881	95	231662	49.63	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.26%			
92) 1,2-Dichlorobenzene-d4	10.085	152	217113	47.01	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 94.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.188	85	879	0.72	ug/L	98
3) Chloromethane	1.317	50	2454m	1.09	ug/L	
4) Vinyl chloride	1.402	62	2881	1.08	ug/L #	44
5) Bromomethane	1.622	94	2845m	2.42	ug/L	
6) Chloroethane	1.285	64	313549	165.07	ug/L #	53
7) Trichlorofluoromethane	1.846	101	2014	0.55	ug/L	91
8) Ethyl Ether	2.050	59	2126	0.90	ug/L	96
9) Freon 113	2.184	101	2000	0.96	ug/L	92
10) Acrolein	2.189	56	2058	4.40	ug/L #	74
11) Tert-Butyl alcohol	2.670	59	4154	14.85	ug/L #	47
12) 1,1-Dichloroethene	2.210	96	2320	0.97	ug/L #	69
13) Iodomethane	2.339	142	5982	2.82	ug/L	99
14) Acetonitrile	2.483	40	10288	6.90	ug/L #	1
15) Methylene chloride	2.595	84	4904	1.65	ug/L	77
16) Trans-1,2-dichloroethene	2.756	96	2729	1.00	ug/L #	61
17) Isopropyl ether	3.093	45	10388	0.97	ug/L	96
18) 1,1-Dichloroethane	3.114	63	4250	0.84	ug/L	94
19) Acetone	2.296	43	3961	3.63	ug/L	95
20) Methyl Acetate	4.259	43	2948	1.24	ug/L #	100
21) MTBE	2.740	73	6186	0.84	ug/L	100
22) Carbon disulfide	2.360	76	13396	1.68	ug/L	100
24) Acrylonitrile	2.831	53	3734	4.51	ug/L	91
25) Chloroprene	3.146	53	4598	0.98	ug/L	92
26) n-Heptane	4.436	71	2999m	1.32	ug/L	
27) 2,2-Dichloropropane	3.548	77	3711	0.89	ug/L #	40
28) Cis-1,2-dichloroethene	3.580	96	3658	1.13	ug/L #	70

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	9570m	3.01 ug/L	
30) Propionitrile	3.735	54	3668	8.80 ug/L #	89
31) Bromochloromethane	3.783	128	1151	0.78 ug/L	98
32) Tetrahydrofuran	3.617	72	609	0.89 ug/L	85
33) Chloroform	3.837	83	6730	1.26 ug/L	95
34) Cyclohexane	3.938	56	7325	1.56 ug/L #	89
35) 1,1,1-Trichloroethane	3.960	97	3774	0.89 ug/L	87
36) Carbon tetrachloride	4.072	117	2845	0.77 ug/L	85
37) Methacrylonitrile	3.826	41	18476	8.37 ug/L #	37
38) Methylcyclohexane	4.997	83	4705	1.08 ug/L #	81
39) Isobutyl Alcohol	4.259	43	2948	14.35 ug/L	100
42) 2-Butanone	3.612	43	3280	1.82 ug/L	98
43) 1,1-Dichloropropene	4.099	75	2939	0.76 ug/L #	84
44) Vinyl Acetate	3.141	43	4019m	0.96 ug/L	
45) Benzene	4.286	78	10074	0.85 ug/L	100
46) 1,2-Dichloroethane	4.377	62	3017	0.81 ug/L #	80
47) Trichloroethene	4.885	95	2932	0.99 ug/L	86
48) 1,2-Dichloropropane	5.169	63	2461	0.81 ug/L	97
49) Methyl methacrylate	5.270	69	2343	1.12 ug/L	80
50) Dibromomethane	5.281	93	1866	1.03 ug/L	92
51) Bromodichloromethane	5.431	83	3684	0.95 ug/L #	99
52) 2-Chloroethylvinyl ether	5.779	63	1158	0.86 ug/L #	80
53) Cis-1,3-dichloropropene	5.918	75	3707	0.76 ug/L	93
55) Toluene	6.217	92	6417	0.82 ug/L	97
56) Trans-1,3-dichloropropene	6.570	75	2980	0.66 ug/L #	89
57) Ethyl methacrylate	6.618	69	3778	1.00 ug/L	96
58) 1,1,2-Trichloroethane	6.774	83	1999	0.86 ug/L	93
60) 4-Methyl-2-pentanone	6.099	43	5390	1.84 ug/L #	85
61) 2-Hexanone	7.068	43	3471	1.61 ug/L	98
62) Tetrachloroethene	6.790	166	2253	0.76 ug/L	97
63) 1,3-Dichloropropane	6.977	76	3571	0.85 ug/L	97
64) Dibromochloromethane	7.185	129	2423	0.78 ug/L	88
65) 1,2-Dibromoethane	7.319	107	2434	0.95 ug/L	89
66) 1-Chlorohexane	7.790	91	4651	1.11 ug/L #	30
67) Chlorobenzene	7.811	112	7395	0.86 ug/L	93
68) 1,1,1,2-Tetrachloroethane	7.908	131	2449	0.79 ug/L #	18
69) Ethylbenzene	7.897	91	13042	0.89 ug/L	96
70) m,p-Xylene	8.020	106	10091	1.74 ug/L	92
71) o-Xylene	8.395	106	5451	0.95 ug/L	83
72) Xylene (Total)	8.020	106	15541m	2.63 ug/L	
73) Styrene	8.421	104	8177	0.84 ug/L	96
74) Bromoform	8.598	173	1471	0.77 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.716	105	10411	0.83 ug/L	99
77) Bromobenzene	8.994	156	2968	0.87 ug/L	95
78) 1,1,2,2-Tetrachloroethane	9.047	83	3138m	0.95 ug/L	
79) 1,2,3-Trichloropropane	9.085	110	898	0.91 ug/L #	82
80) n-Propylbenzene	9.069	91	15058	0.88 ug/L	100
81) Trans-1,4-dichloro-2-b...	9.106	53	656	0.72 ug/L #	23
82) 2-Chlorotoluene	9.149	126	3342	0.93 ug/L	87
83) 4-Chlorotoluene	9.245	126	3499	0.93 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	10102	0.82 ug/L	92
85) Tert-butylbenzene	9.470	119	8456	0.79 ug/L	94
87) 1,2,4-Trimethylbenzene	9.518	105	10397	0.81 ug/L	92
88) Sec-Butylbenzene	9.641	105	13481	0.82 ug/L	100
89) 1,3-Dichlorobenzene	9.743	146	5746	0.80 ug/L	94
90) 4-Isopropyltoluene	9.759	119	11496	0.82 ug/L	95
91) 1,4-Dichlorobenzene	9.743	146	5746	0.79 ug/L	95
93) 1,2-Dichlorobenzene	10.101	146	6074m	0.89 ug/L	
94) n-Butylbenzene	10.058	91	12855	0.96 ug/L	100
95) 1,2-Dibromo-3-chloropr...	10.679	75	501	0.88 ug/L	95
96) 1,2,4-Trichlorobenzene	11.225	180	4004	0.99 ug/L	98
97) Hexachlorobutadiene	11.305	225	1901	1.01 ug/L	98
98) Naphthalene	11.412	128	8153	0.82 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	3193	0.93 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
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Operator : SM
Sample : CAL01
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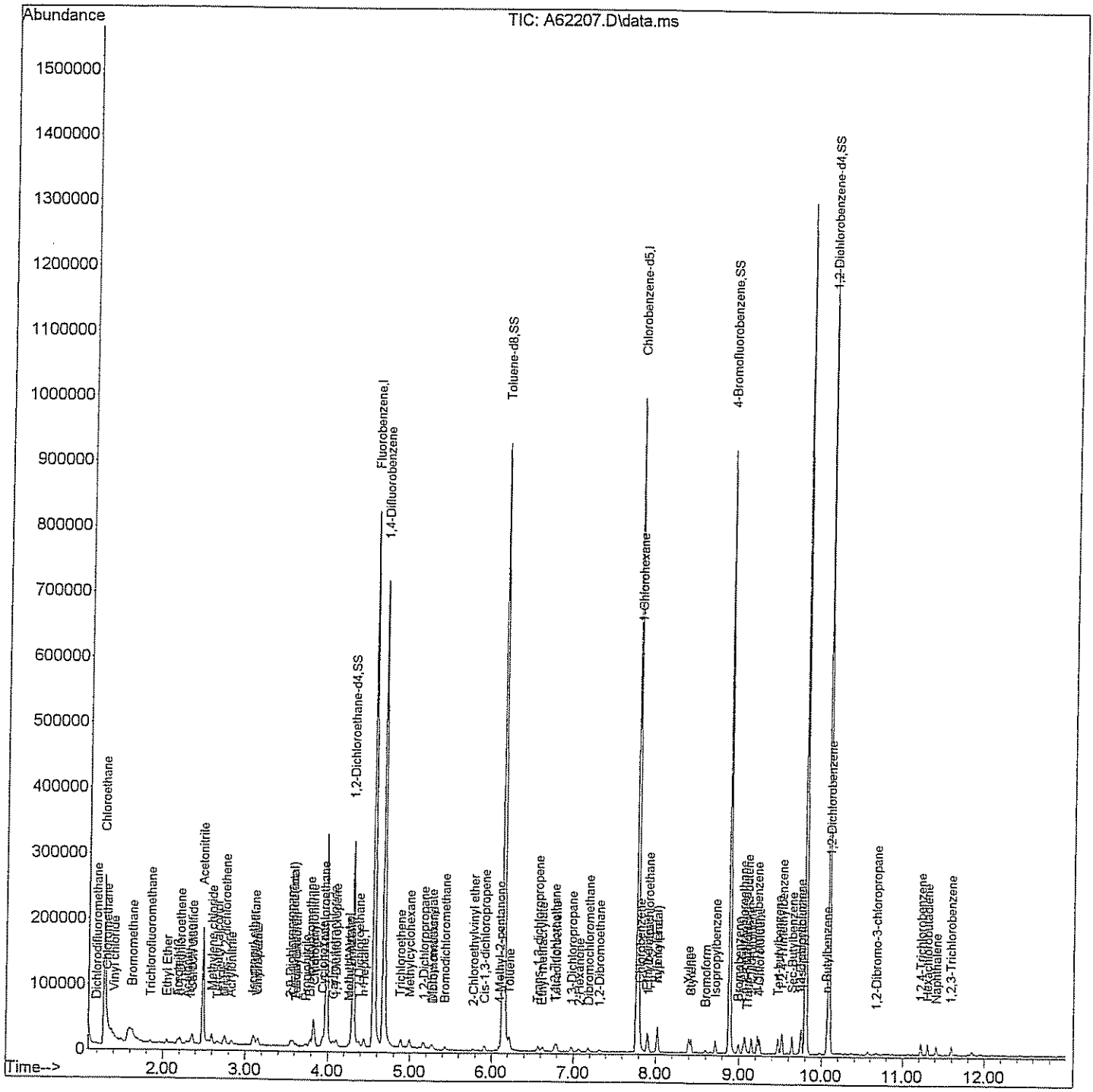
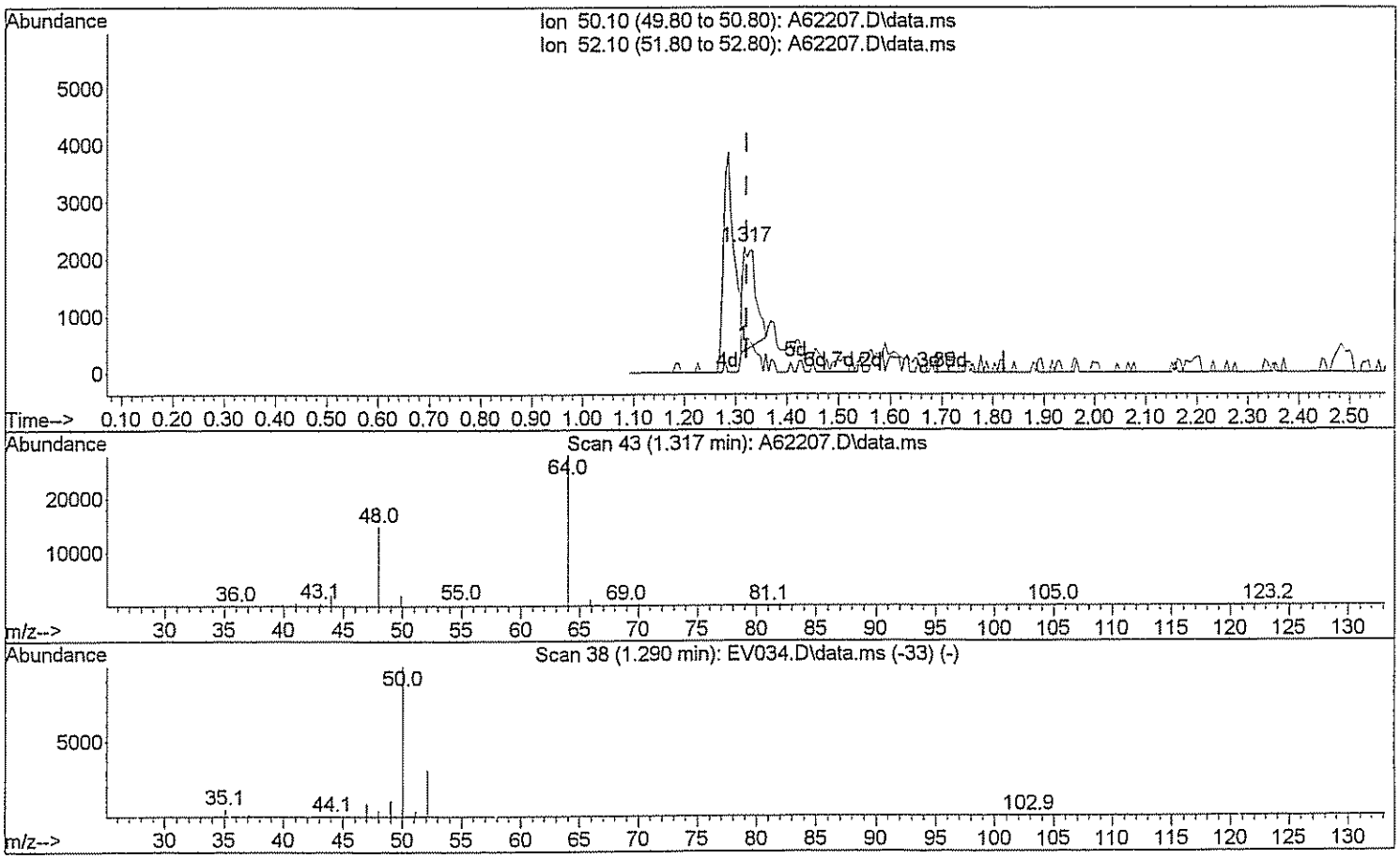
Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(3) Chloromethane

1.317min (-0.005) 1.32 ug/L

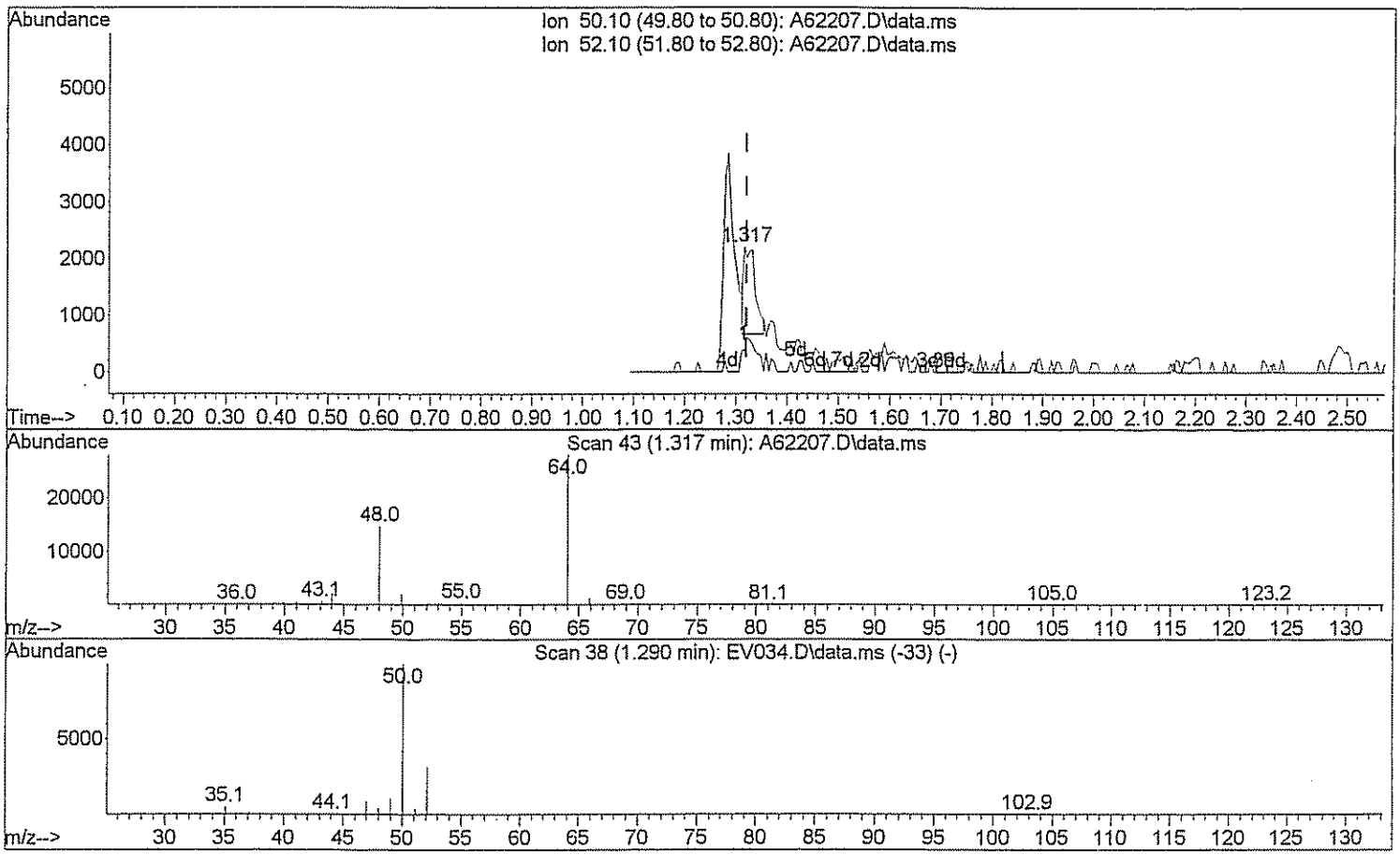
response 2970

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	35.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(3) Chloromethane

1.317min (-0.005) 1.09 ug/L m

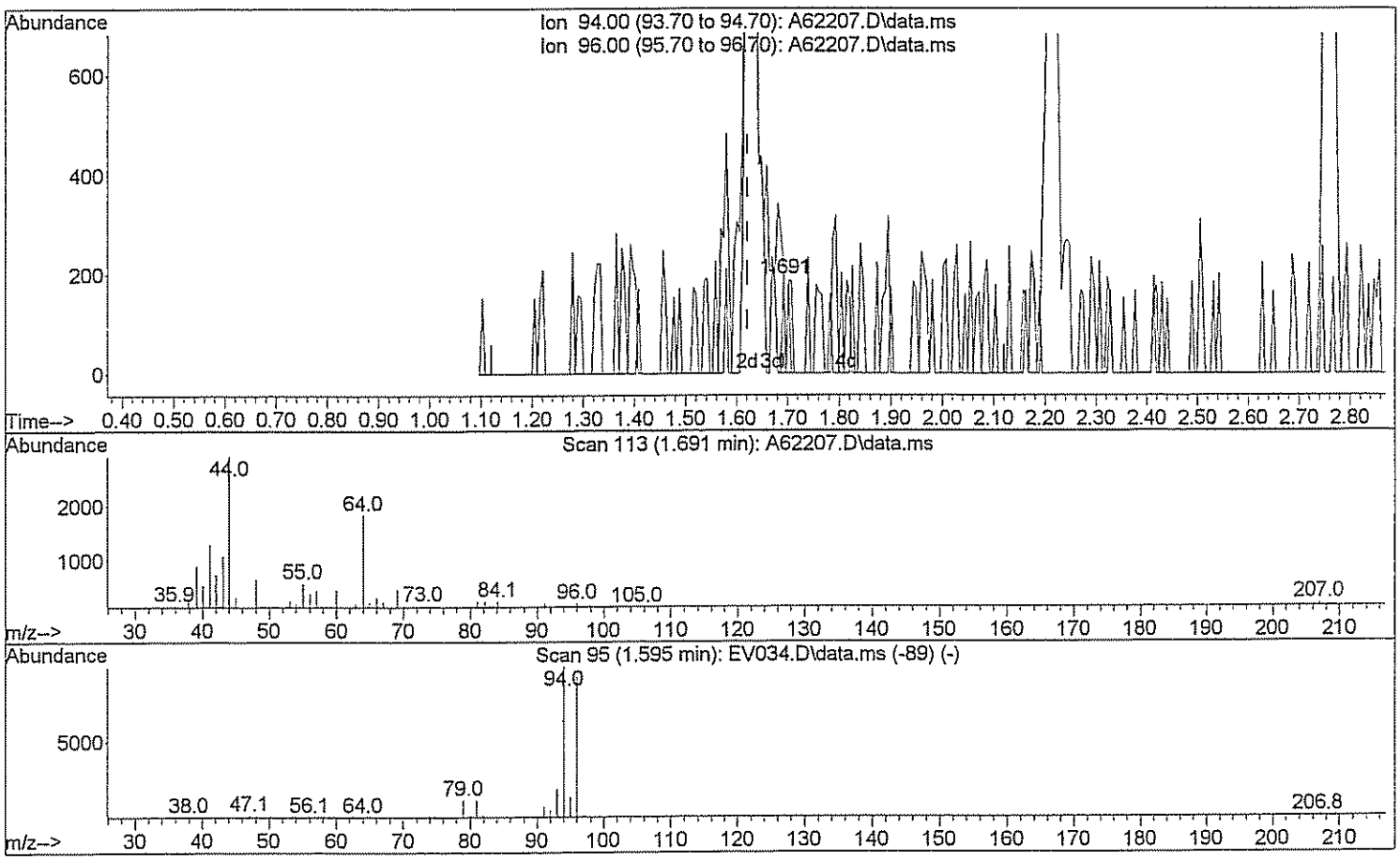
response 2454

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	43.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(5) Bromomethane

1.691min (+0.070) 0.10 ug/L

response 120

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	99.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
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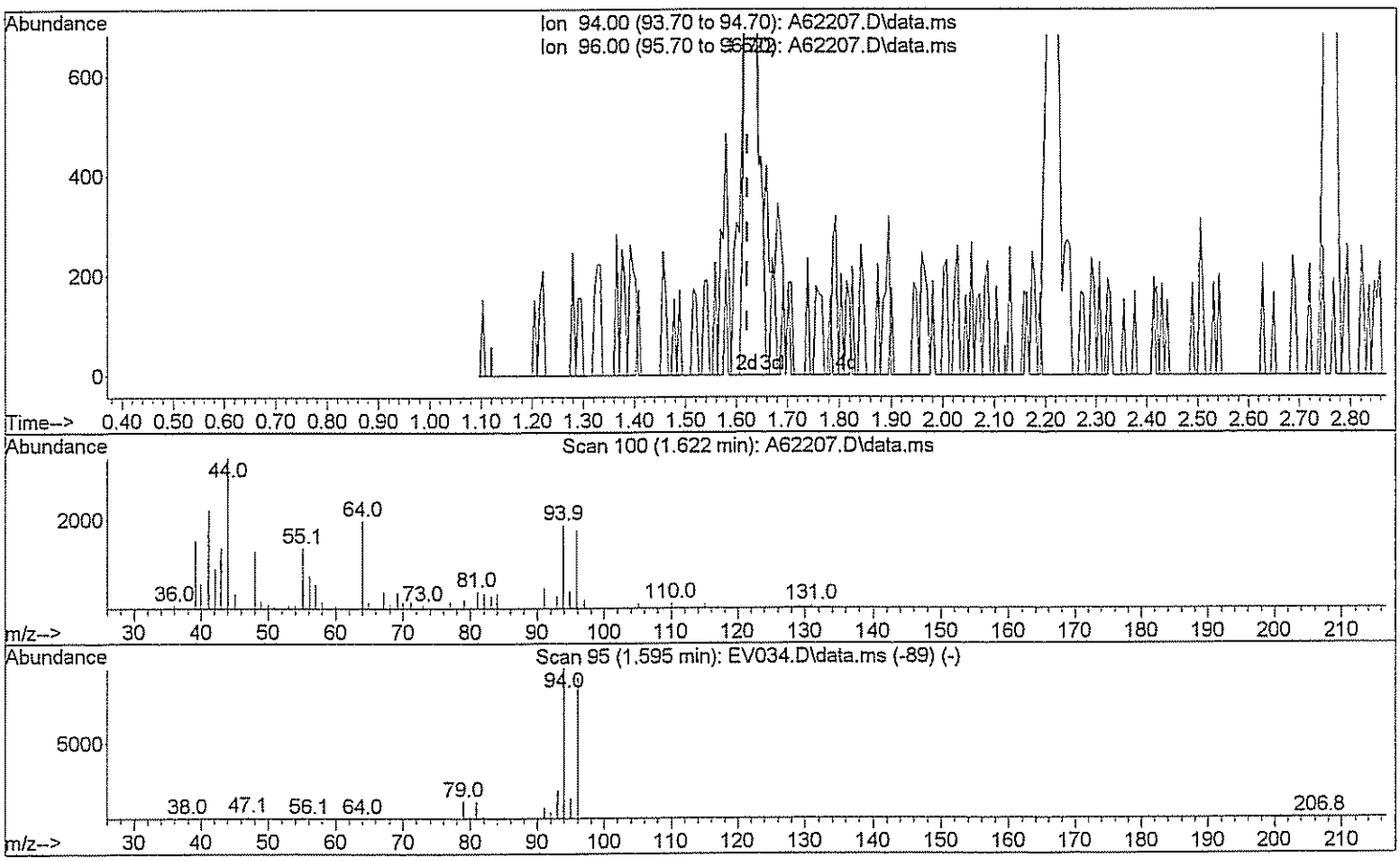


TIC: A62207.D\data.ms

(5) Bromomethane

1.622min (+0.000) 2.42 ug/L m JW 3/17/09

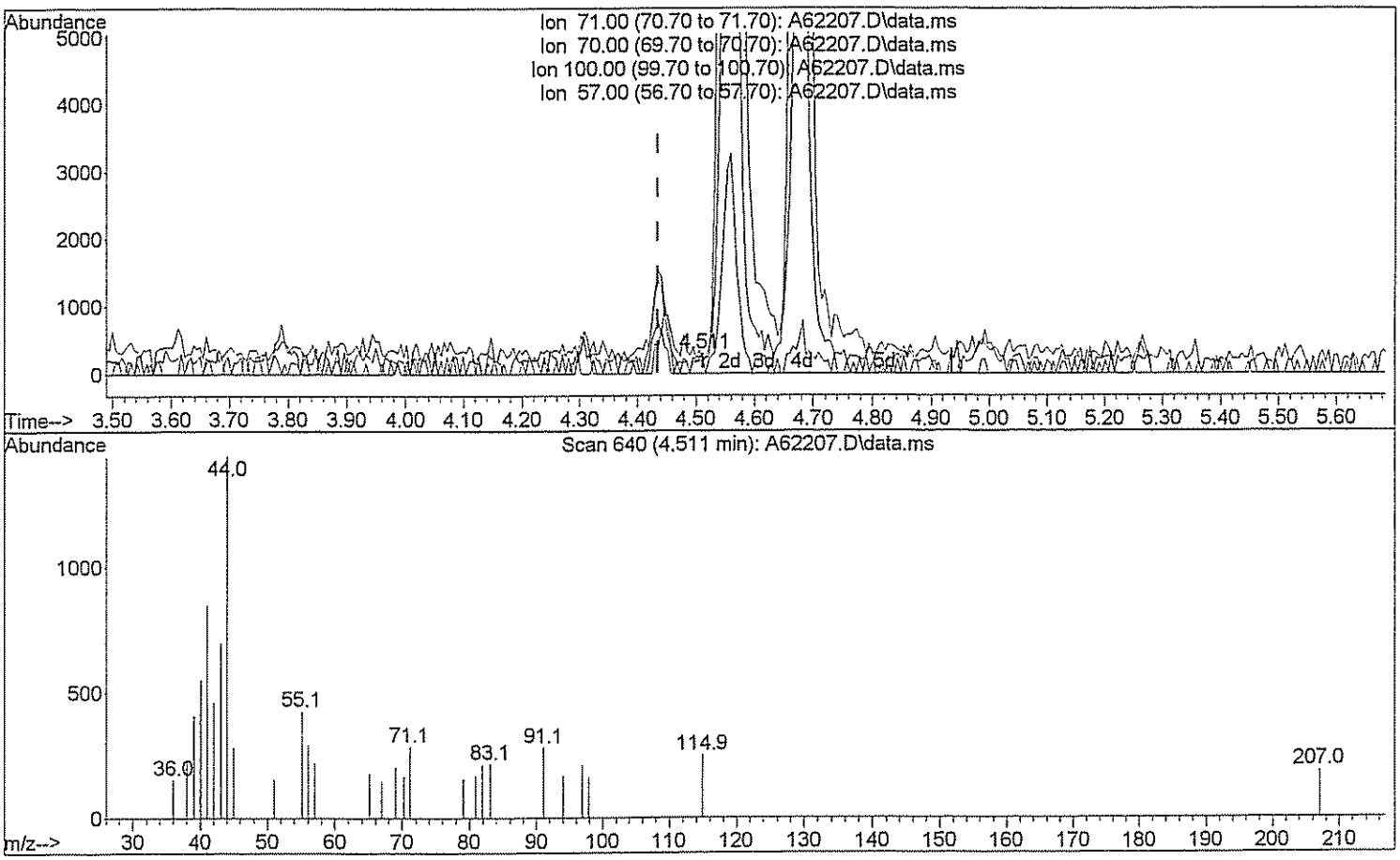
response 2845

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	4.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(26) n-Heptane (T)

4.511min (+0.075) 0.13 ug/L

response 287

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	62.00	0.00#
57.00	40.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
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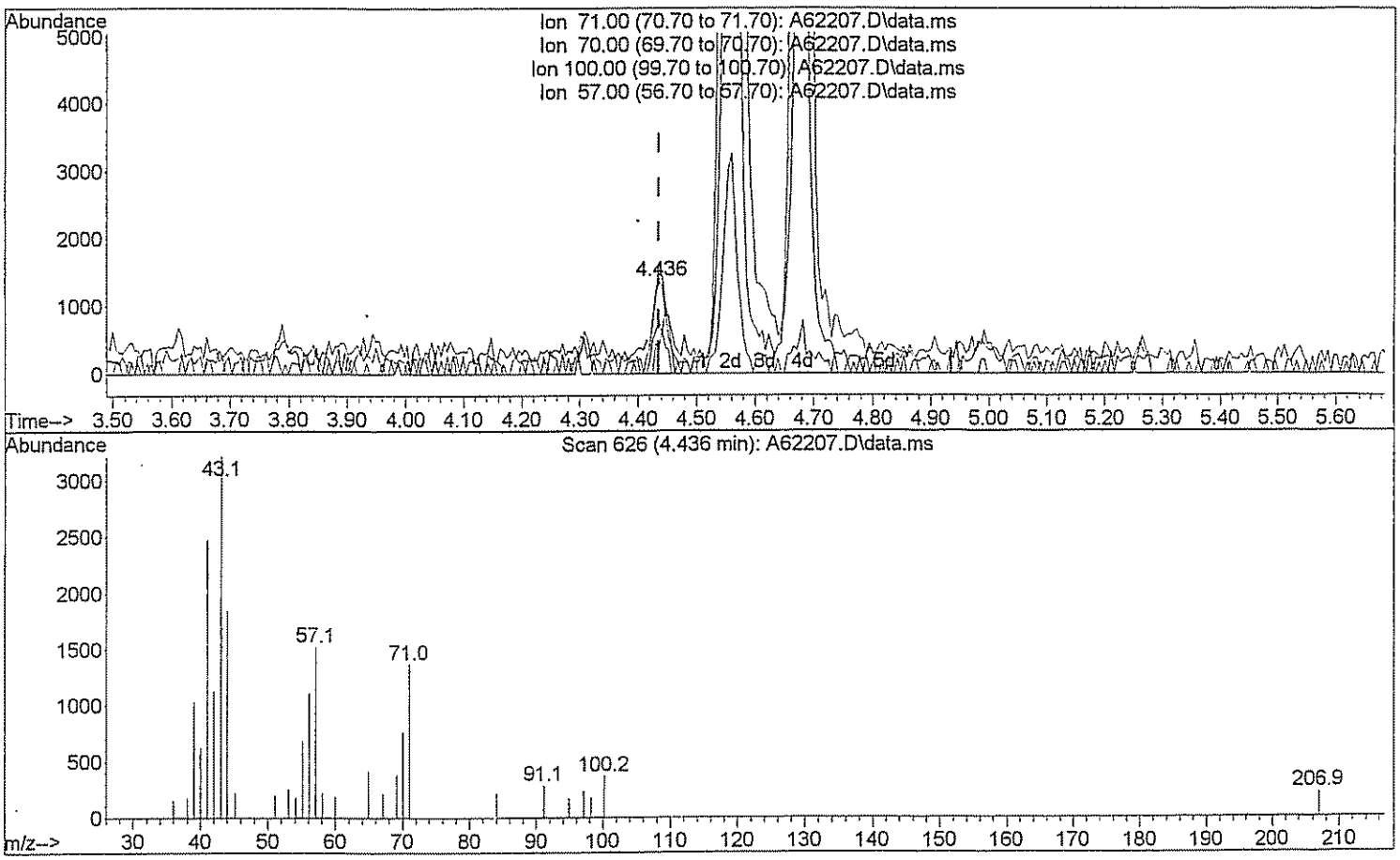

TIC: A62207.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 1.32 ug/L m DW 3/17/09

response 2999

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	62.00	0.00#
57.00	40.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
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Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
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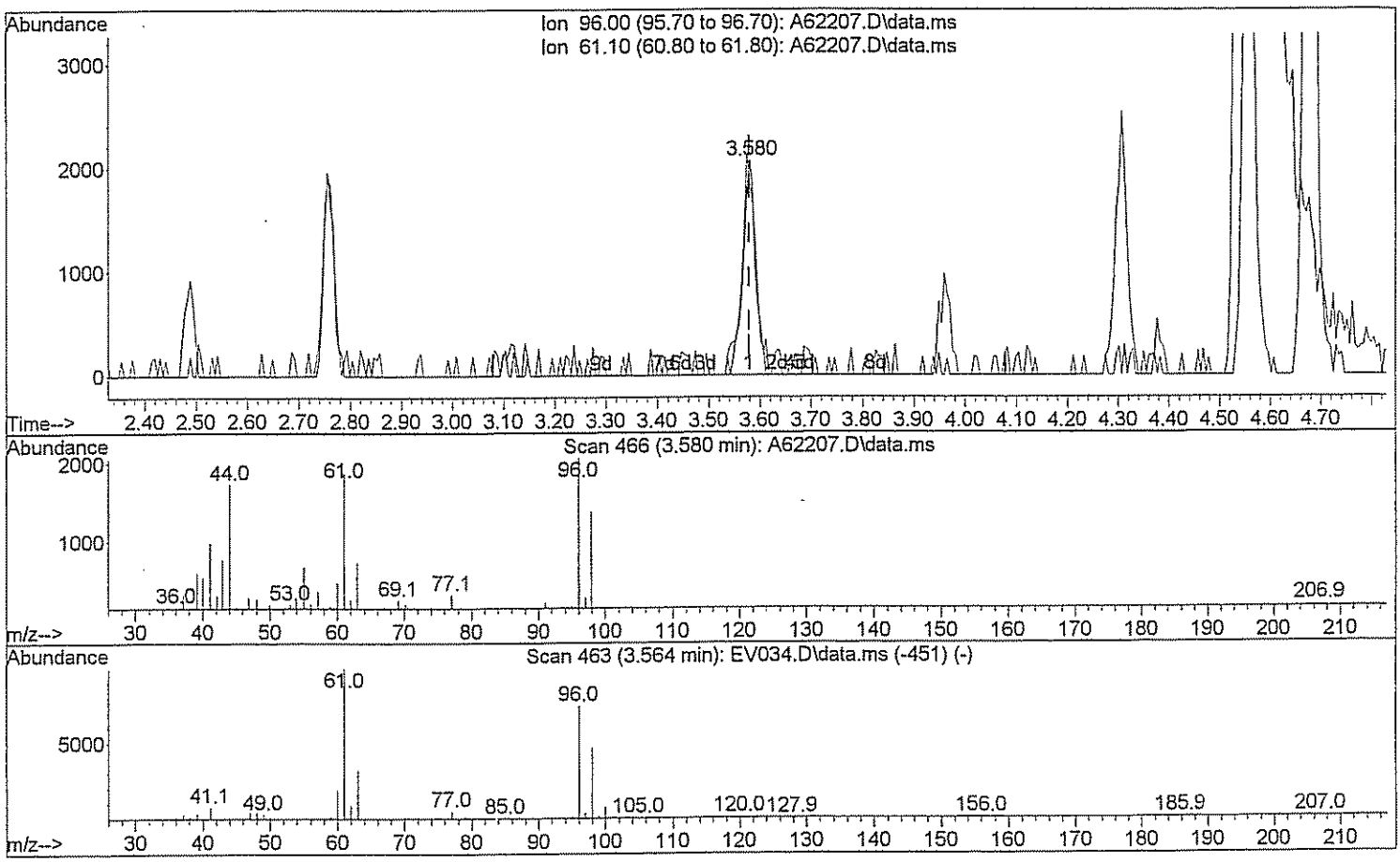

TIC: A62207.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.000) 1.15 ug/L

response 3658

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	106.40#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
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Sample : CAL01
Misc : CAL01
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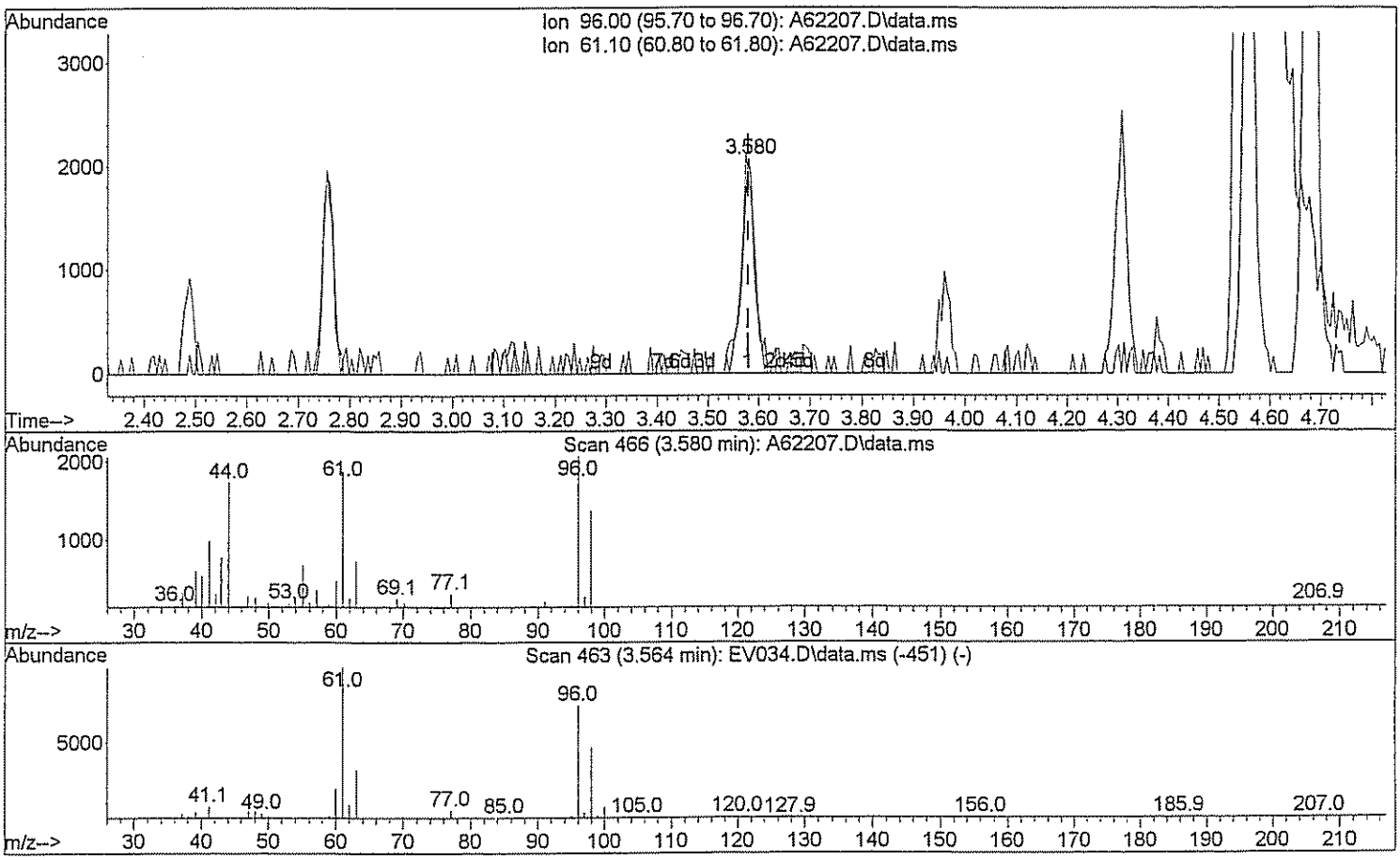
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.000) 3.01 ug/L m 3/17/09

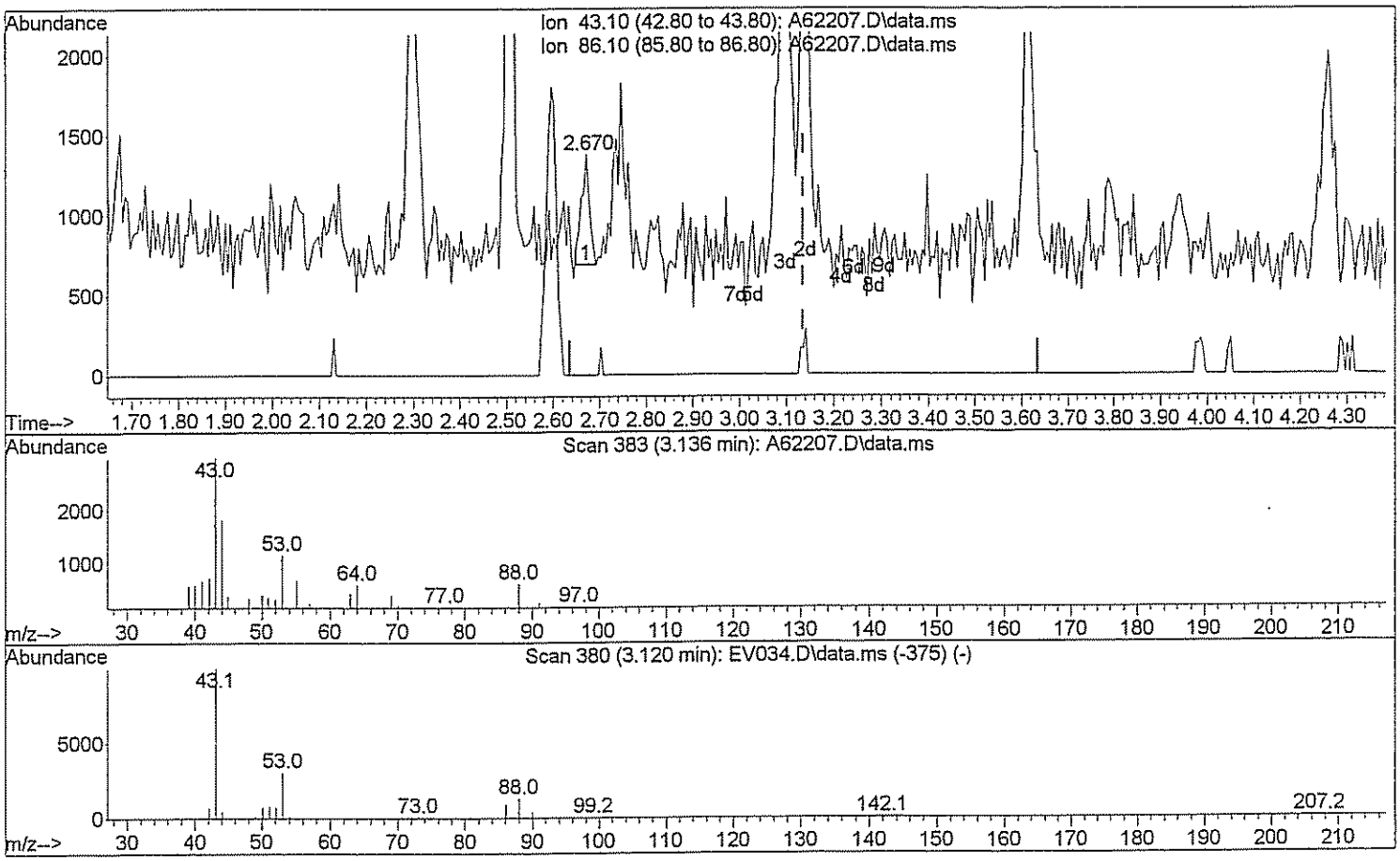
response 9570

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	40.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(44) Vinyl Acetate

2.670min (-0.465) 0.20 ug/L

response 826

Ion	Exp%	Act%
43.10	100	100
86.10	8.20	6.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
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Misc : CAL01
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Quant Title : 8260
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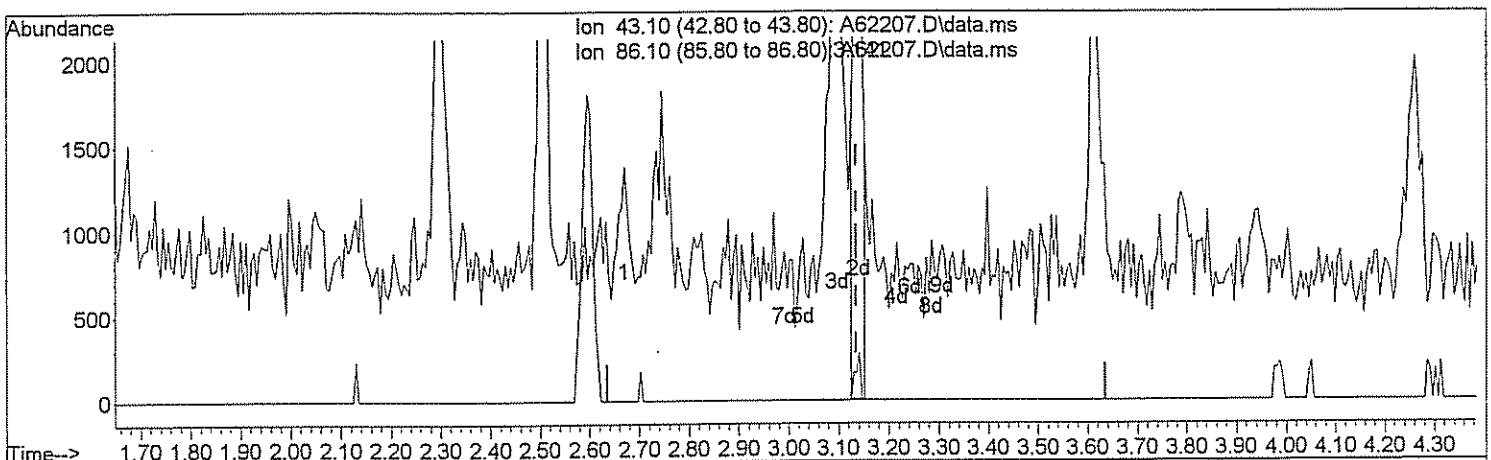
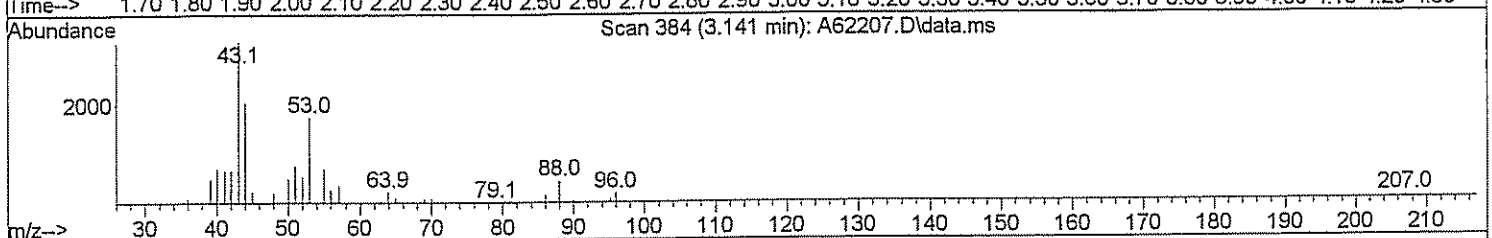
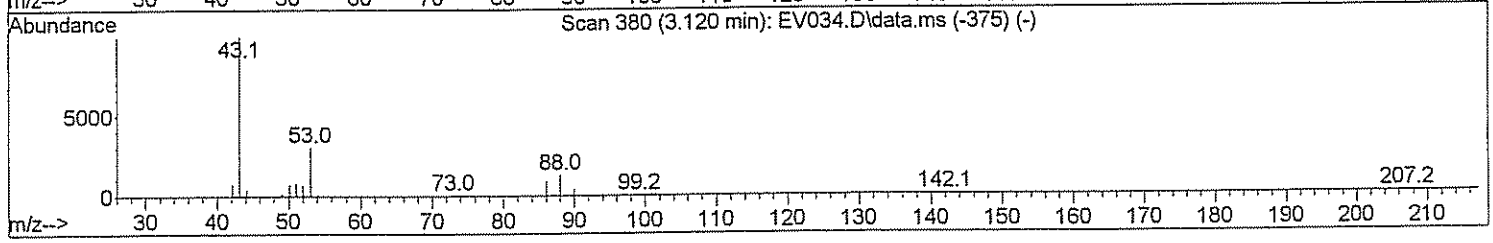
Response via : Initial Calibration







TIC: A62207.D\data.ms

(44) Vinyl Acetate

3.141min (+0.005) 0.96 ug/L m DW 3/17/09

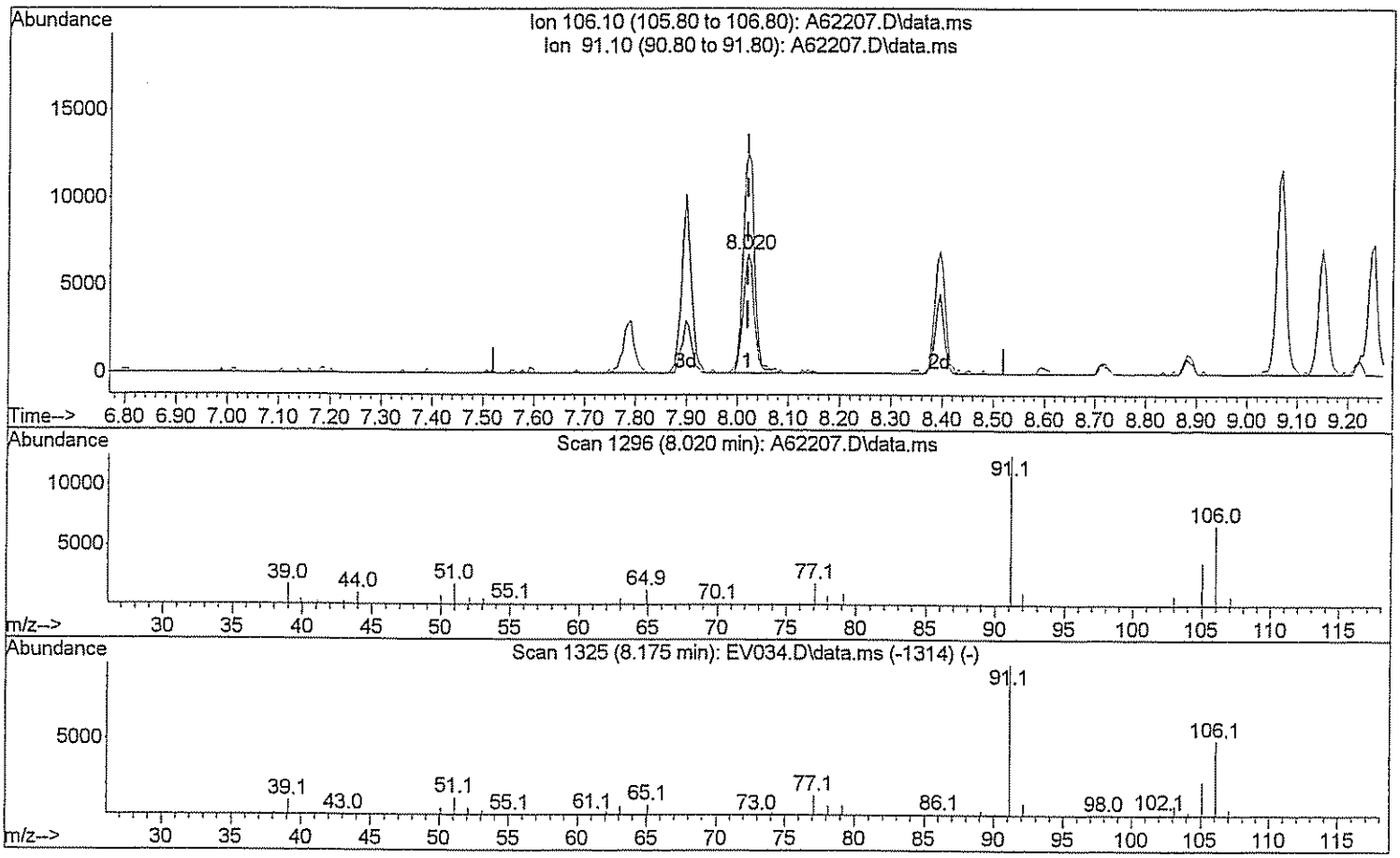
response 4019

Ion	Exp%	Act%
43.10	100	100
86.10	8.20	1.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 1.71 ug/L

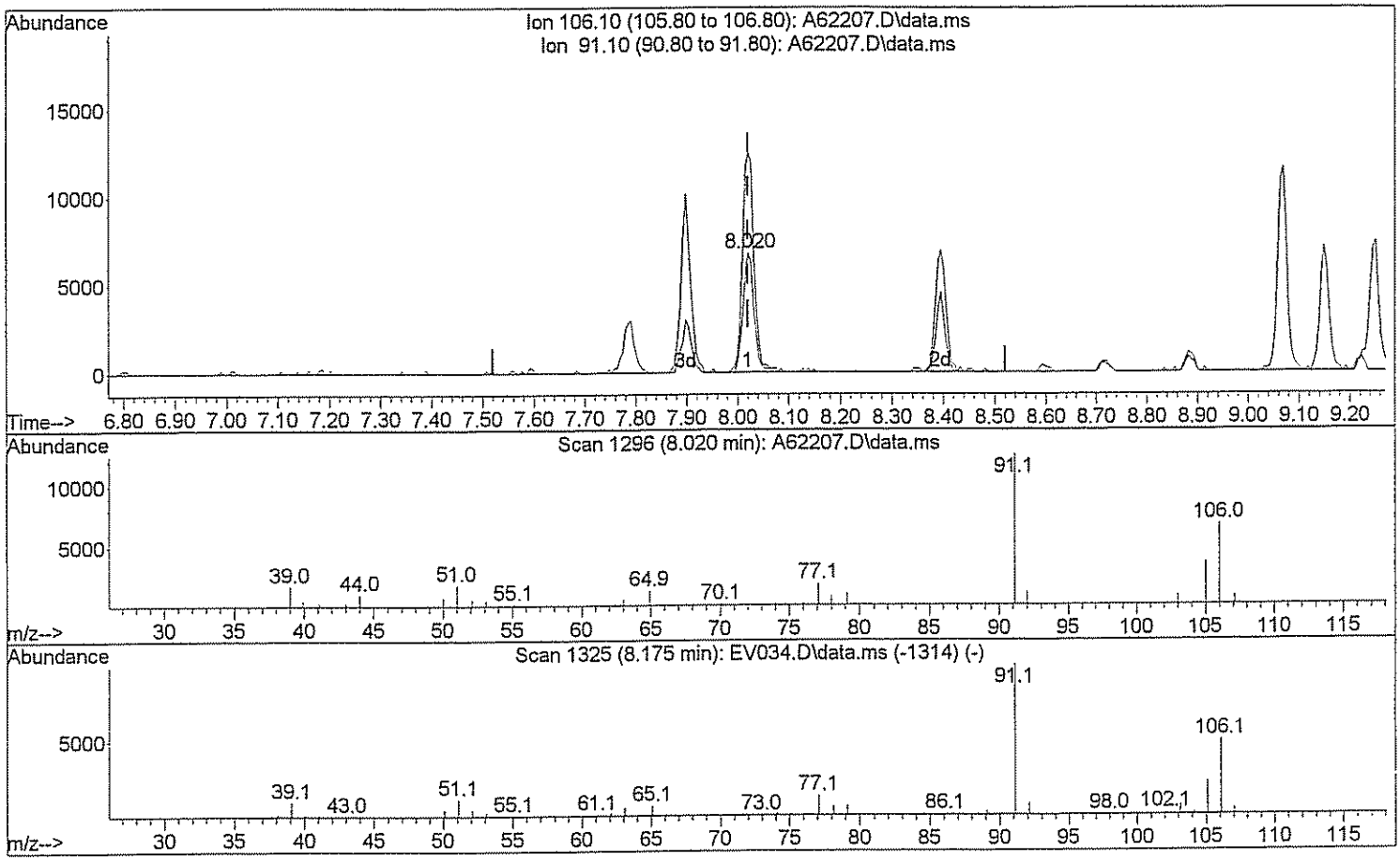
response 10091

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 2.63 ug/L m

AM 3/17/09

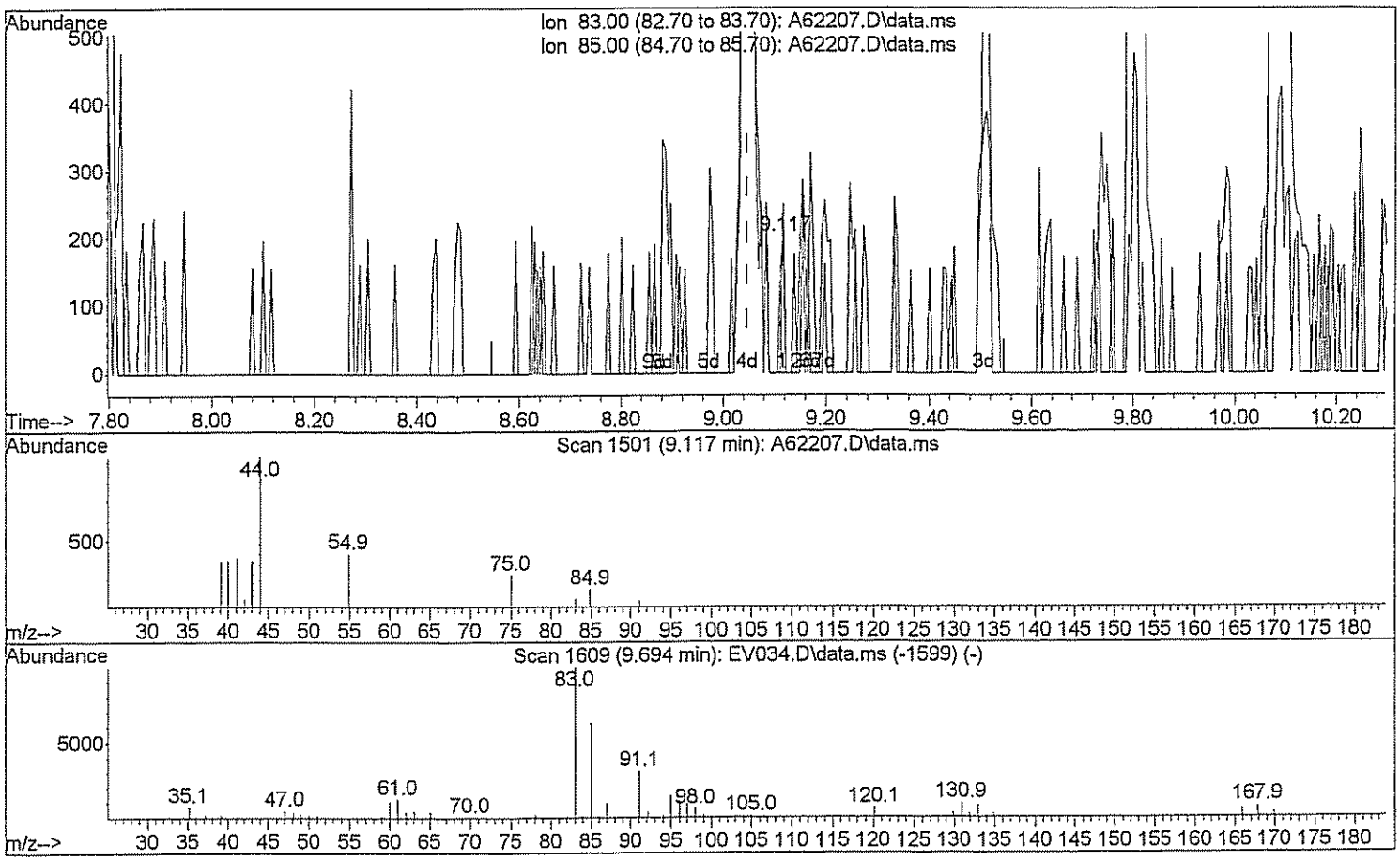
response 15541

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.94#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(78) 1,1,2,2-Tetrachloroethane

9.117min (+0.070) 0.03 ug/L

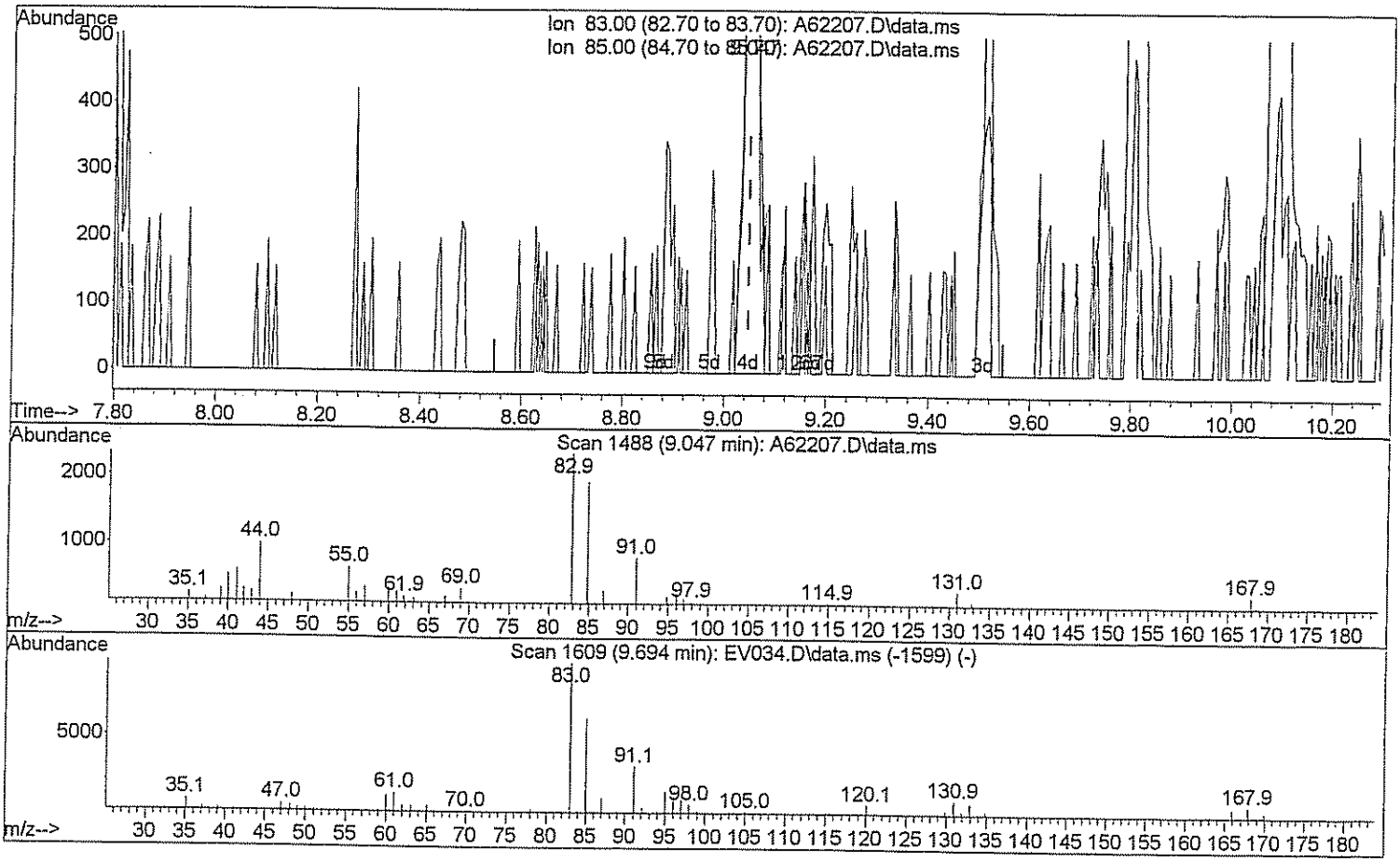
response 114

Ion	Exp%	Act%
83.00	100	100
85.00	62.40	71.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(78) 1,1,2,2-Tetrachloroethane

9.047min (+0.000) 0.95 ug/L m DM 3/17/09

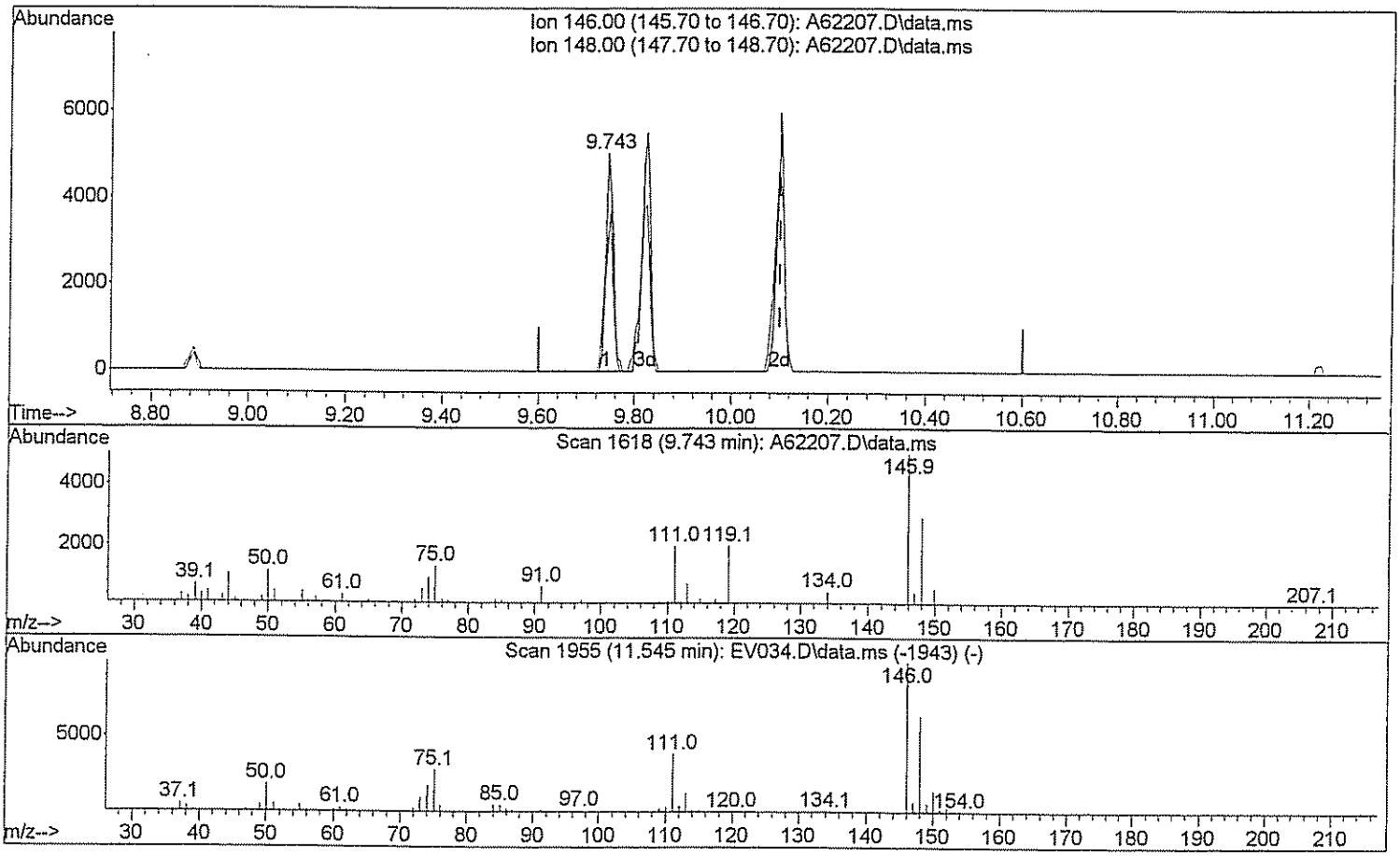
response 3138

Ion	Exp%	Act%
83.00	100	100
85.00	62.40	2.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(93) 1,2-Dichlorobenzene

9.743min (-0.358) 0.84 ug/L

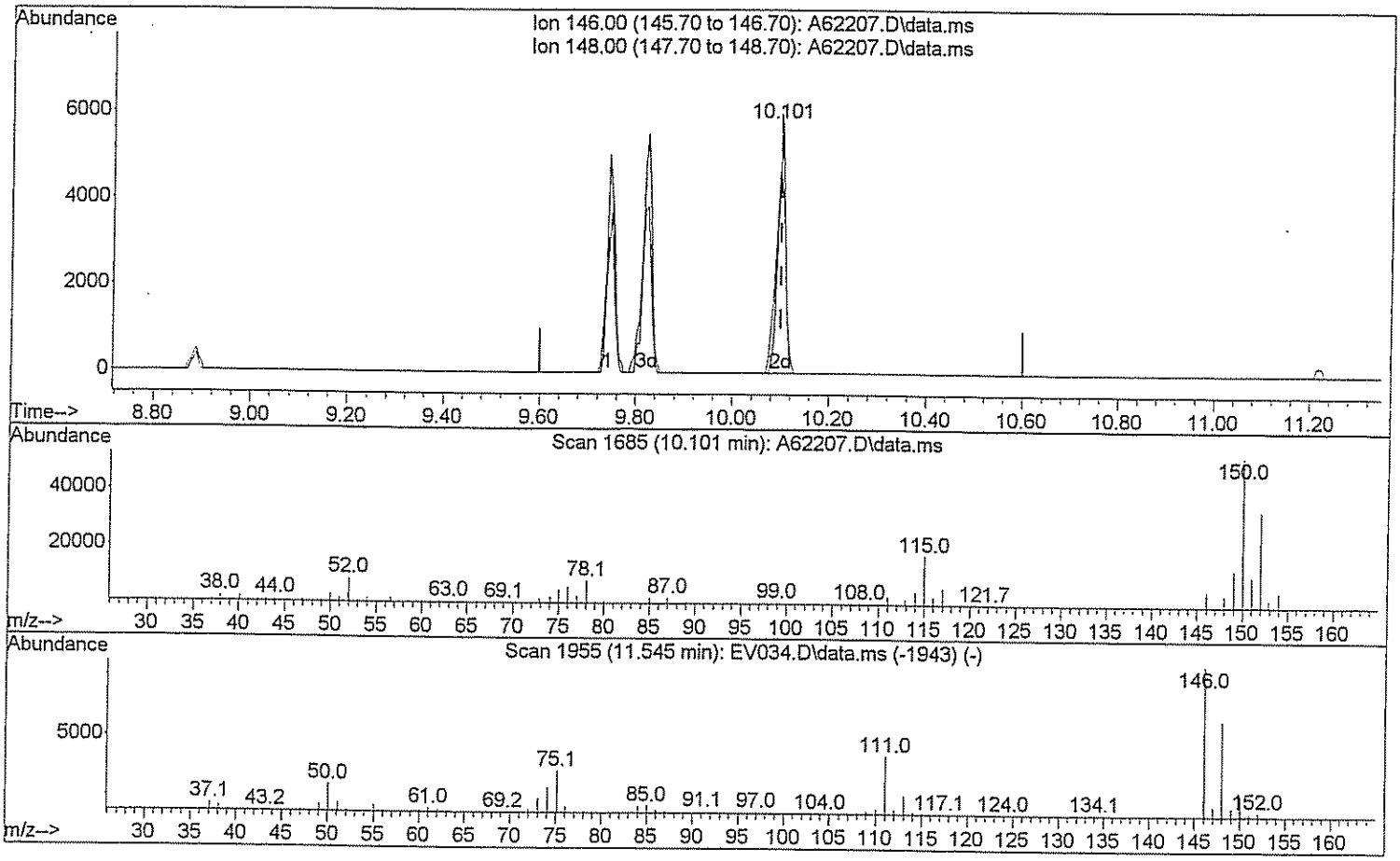
response 5746

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	68.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(93) 1,2-Dichlorobenzene

10.101min (+0.000) 0.89 ug/L m SM 3/17/09

response 6074

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	64.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	620821	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	510609	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	461433	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	162435	48.71	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.42%				
54) Toluene-d8	6.142	98	578385	48.26	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.52%				
76) 4-Bromofluorobenzene	8.881	95	215086	49.24	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.48%				
92) 1,2-Dichlorobenzene-d4	10.085	152	202987	46.44	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 92.88%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	5296	4.41	ug/L		95
3) Chloromethane	1.322	50	11263	5.36	ug/L	#	63
4) Vinyl chloride	1.392	62	11774	4.56	ug/L	#	46
5) Bromomethane	1.622	94	4253m	3.53	ug/L		
6) Chloroethane	1.686	64	8923m	4.93	ug/L		
7) Trichlorofluoromethane	1.841	101	15209	4.18	ug/L		99
8) Ethyl Ether	2.044	59	9718	4.19	ug/L		90
9) Freon 113	2.178	101	8353	4.01	ug/L		93
10) Acrolein	2.189	56	11354	25.72	ug/L	#	74
11) Tert-Butyl alcohol	2.665	59	25601	95.22	ug/L	#	47
12) 1,1-Dichloroethene	2.210	96	10037	4.31	ug/L		76
13) Iodomethane	2.333	142	6874	3.17	ug/L		97
14) Acetonitrile	2.483	40	46779	30.48	ug/L	#	1
15) Methylene chloride	2.590	84	13777	4.85	ug/L		96
16) Trans-1,2-dichloroethene	2.750	96	11537	4.30	ug/L		84
17) Isopropyl ether	3.088	45	44510	4.22	ug/L		100
18) 1,1-Dichloroethane	3.109	63	20739	4.14	ug/L		99
19) Acetone	2.296	43	10639	10.34	ug/L		96
20) Methyl Acetate	4.254	43	13443	6.38	ug/L	#	100
21) MTBE	2.734	73	31650	4.39	ug/L		100
22) Carbon disulfide	2.355	76	35249	4.58	ug/L		100
24) Acrylonitrile	2.831	53	18286	22.89	ug/L		93
25) Chloroprene	3.146	53	19767	4.32	ug/L		89
26) n-Heptane	4.436	71	9657m	4.38	ug/L		
27) 2,2-Dichloropropane	3.548	77	16666	3.98	ug/L	#	53
28) Cis-1,2-dichloroethene	3.580	96	13315	4.17	ug/L		98

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	1,2-dichloroethene(total)	3.580	96	27425m	9.07	ug/L		
30)	Propionitrile	3.729	54	18264	45.27	ug/L		96
31)	Bromochloromethane	3.783	128	5626	3.80	ug/L		95
32)	Tetrahydrofuran	3.794	72	3012	4.56	ug/L	#	1
33)	Chloroform	3.836	83	21517	4.09	ug/L		97
34)	Cyclohexane	3.933	56	18757	4.06	ug/L	#	81
35)	1,1,1-Trichloroethane	3.960	97	17034	4.08	ug/L		94
36)	Carbon tetrachloride	4.061	117	14873	4.07	ug/L		98
37)	Methacrylonitrile	3.820	41	84193	38.28	ug/L	#	12
38)	Methylcyclohexane	4.987	83	18142	4.24	ug/L		95
39)	Isobutyl Alcohol	4.436	43	17978	89.80	ug/L		91
42)	2-Butanone	3.612	43	15533	9.00	ug/L		98
43)	1,1-Dichloropropene	4.099	75	15570	4.18	ug/L		100
44)	Vinyl Acetate	3.136	43	18207	4.53	ug/L		97
45)	Benzene	4.281	78	47600	4.15	ug/L		100
46)	1,2-Dichloroethane	4.371	62	15061m	4.16	ug/L		
47)	Trichloroethene	4.880	95	12390	4.34	ug/L		96
48)	1,2-Dichloropropane	5.158	63	11740	3.93	ug/L		98
49)	Methyl methacrylate	5.265	69	10447	5.39	ug/L		83
50)	Dibromomethane	5.276	93	7721	4.46	ug/L		99
51)	Bromodichloromethane	5.425	83	16101	4.29	ug/L		100
52)	2-Chloroethylvinyl ether	5.773	63	29297	24.02	ug/L		92
53)	Cis-1,3-dichloropropene	5.912	75	18450	3.79	ug/L		96
55)	Toluene	6.217	92	30564	4.02	ug/L		94
56)	Trans-1,3-dichloropropene	6.570	75	18138	4.09	ug/L		95
57)	Ethyl methacrylate	6.624	69	15501	4.24	ug/L		93
58)	1,1,2-Trichloroethane	6.768	83	9497	4.16	ug/L		97
60)	4-Methyl-2-pentanone	6.094	43	26186	9.51	ug/L	#	91
61)	2-Hexanone	7.062	43	20194	10.08	ug/L		95
62)	Tetrachloroethene	6.790	166	11834	4.12	ug/L		92
63)	1,3-Dichloropropane	6.966	76	18431	4.60	ug/L		96
64)	Dibromochloromethane	7.185	129	13422	4.58	ug/L		91
65)	1,2-Dibromoethane	7.319	107	11148	4.58	ug/L		99
66)	1-Chlorohexane	7.785	91	18454	4.64	ug/L		93
67)	Chlorobenzene	7.806	112	34730	4.20	ug/L		93
68)	1,1,1,2-Tetrachloroethane	7.908	131	11935	3.93	ug/L	#	18
69)	Ethylbenzene	7.897	91	59985	4.27	ug/L		99
70)	m,p-Xylene	8.020	106	47385	8.43	ug/L		90
71)	o-Xylene	8.394	106	23297	4.19	ug/L		92
72)	Xylene (Total)	8.020	106	70685m	12.36	ug/L		
73)	Styrene	8.421	104	39554	4.21	ug/L		98
74)	Bromoform	8.598	173	8081	4.40	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

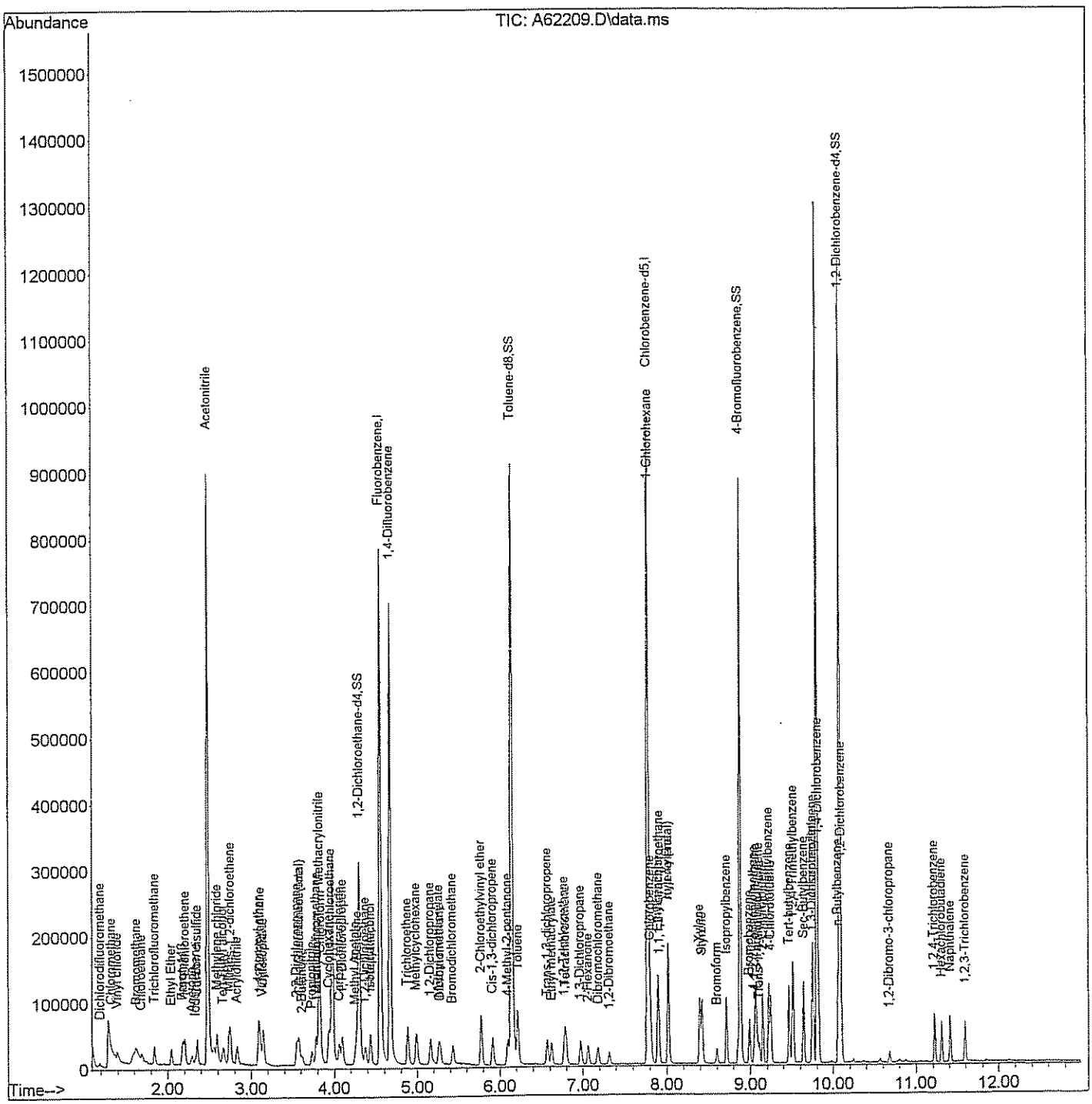
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	51123	4.25 ug/L	100
77) Bromobenzene	8.994	156	13648	4.16 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	14505	4.66 ug/L	95
79) 1,2,3-Trichloropropane	9.085	110	4733	5.19 ug/L	86
80) n-Propylbenzene	9.063	91	70946	4.31 ug/L	99
81) Trans-1,4-dichloro-2-b...	9.106	53	4560	5.46 ug/L #	25
82) 2-Chlorotoluene	9.149	126	14908	4.30 ug/L #	83
83) 4-Chlorotoluene	9.245	126	15465	4.31 ug/L	86
84) 1,3,5-Trimethylbenzene	9.224	105	48345	4.05 ug/L	98
85) Tert-butylbenzene	9.470	119	42422	4.07 ug/L	96
87) 1,2,4-Trimethylbenzene	9.518	105	50363	4.06 ug/L	94
88) Sec-Butylbenzene	9.641	105	63647	4.00 ug/L	98
89) 1,3-Dichlorobenzene	9.743	146	26904	3.80 ug/L	98
90) 4-Isopropyltoluene	9.753	119	54688	3.96 ug/L	98
91) 1,4-Dichlorobenzene	9.817	146	28782	4.10 ug/L	93
93) 1,2-Dichlorobenzene	10.101	146	25653	3.79 ug/L	86
94) n-Butylbenzene	10.058	91	54952	4.25 ug/L	98
95) 1,2-Dibromo-3-chloropr...	10.679	75	2578	4.80 ug/L	86
96) 1,2,4-Trichlorobenzene	11.219	180	15481	3.92 ug/L	97
97) Hexachlorobutadiene	11.305	225	6672	3.59 ug/L	100
98) Naphthalene	11.412	128	41431	4.35 ug/L	100
99) 1,2,3-Trichlorobenzene	11.599	180	13348	4.01 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

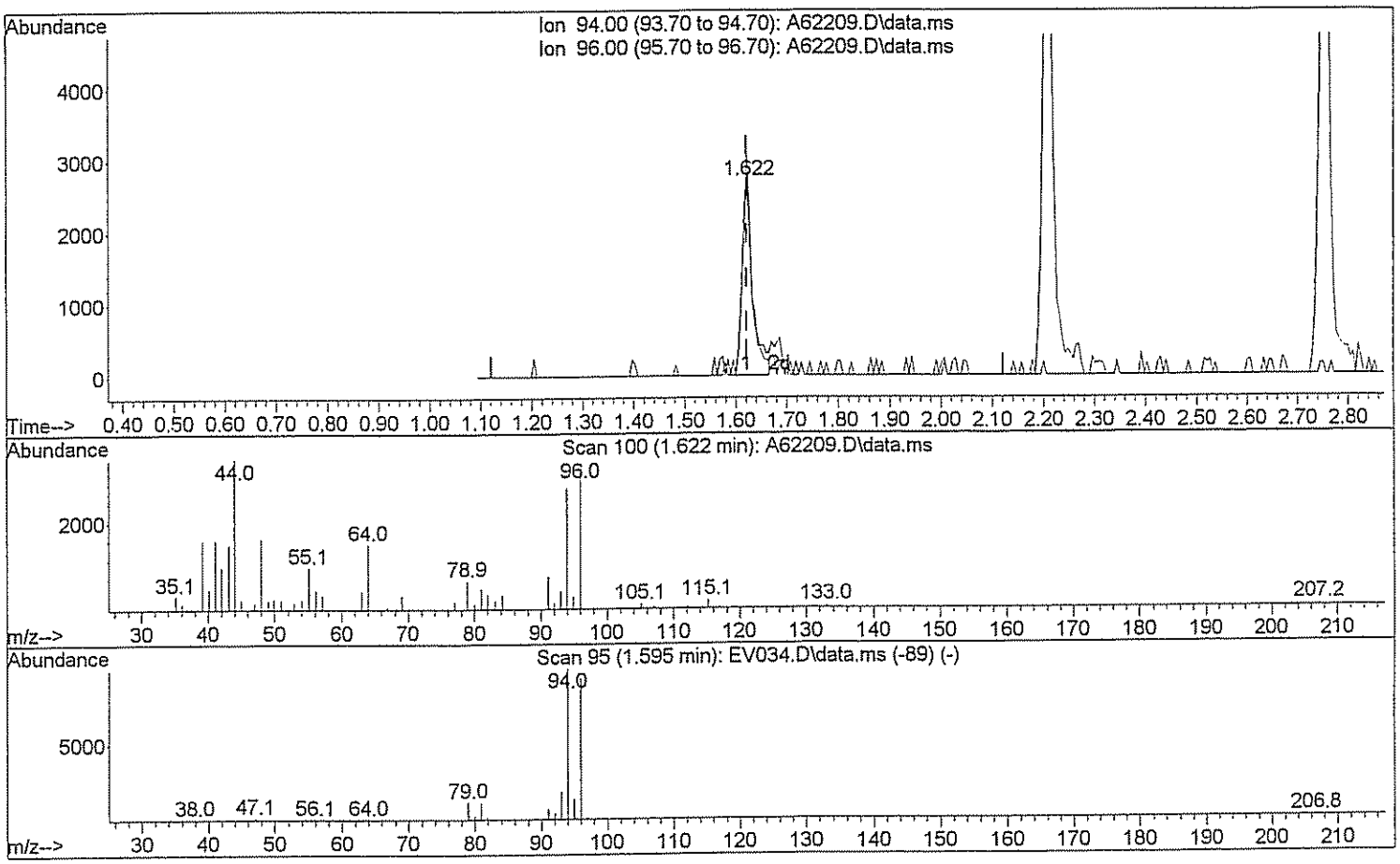
Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(5) Bromomethane

1.622min (+0.000) 3.06 ug/L

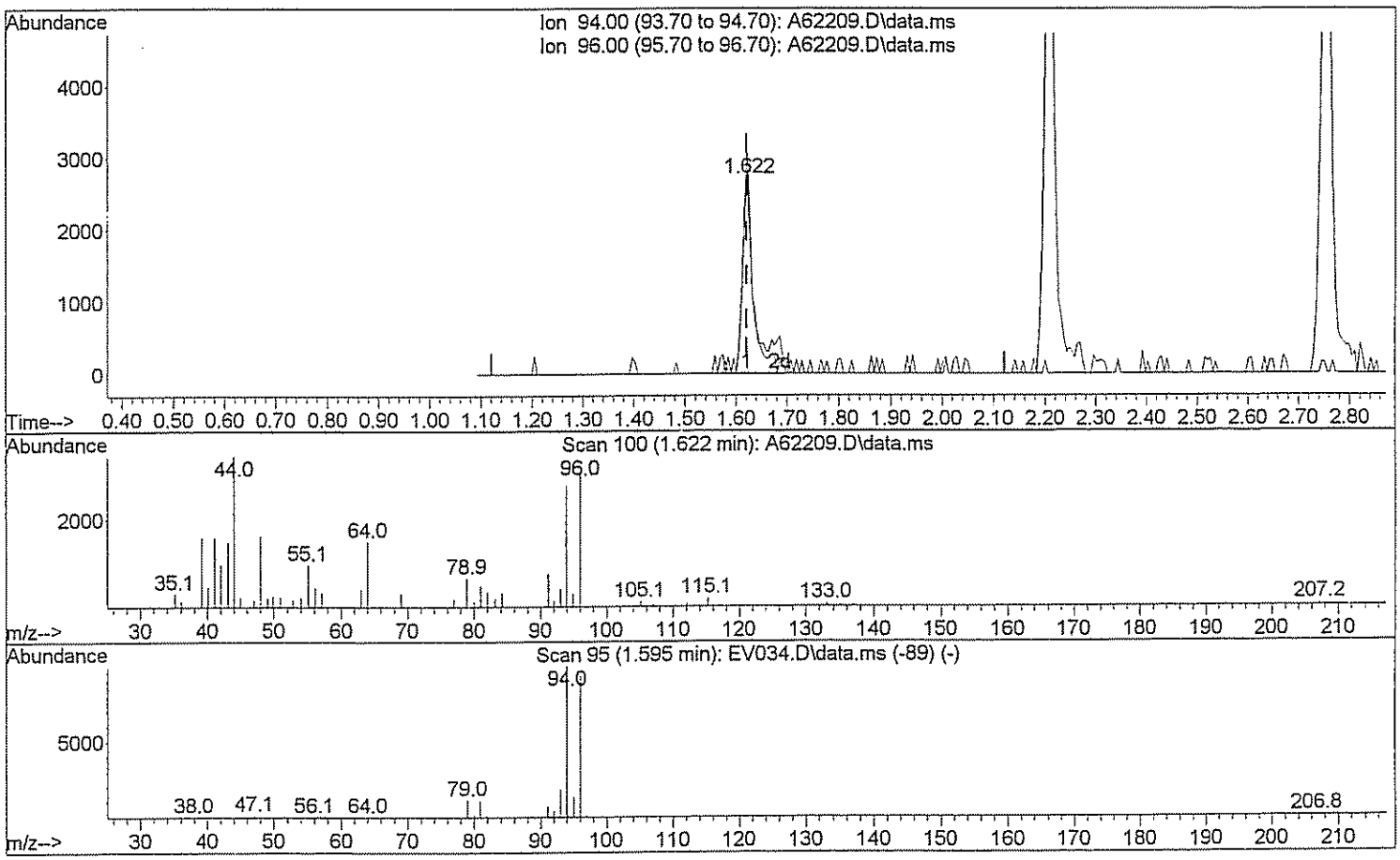
response 3686

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	114.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(5) Bromomethane

1.622min (+0.000) 3.53 ug/L m SW 3/17/09

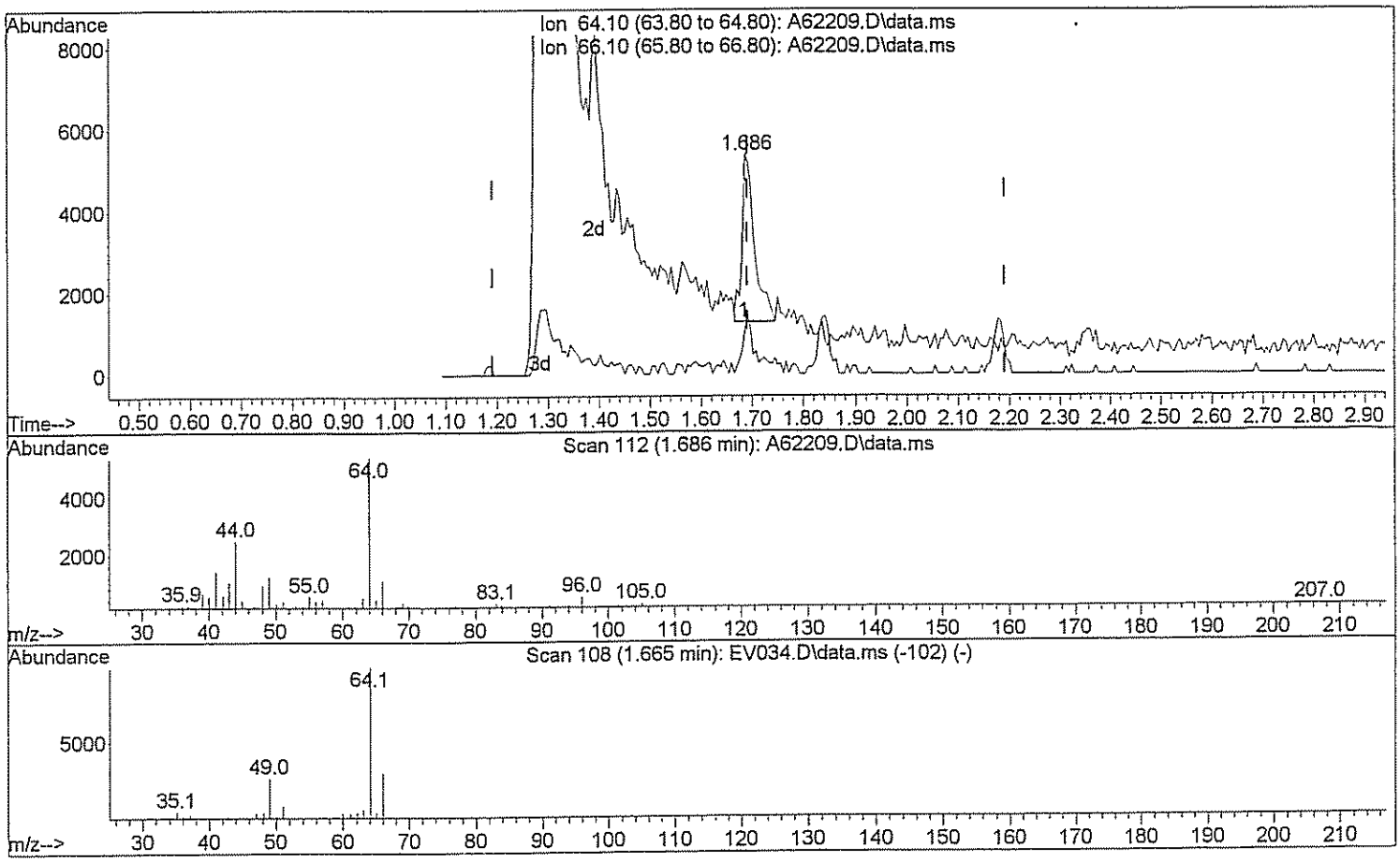
response 4253

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	98.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(6) Chloroethane

1.686min (-0.005) 3.89 ug/L

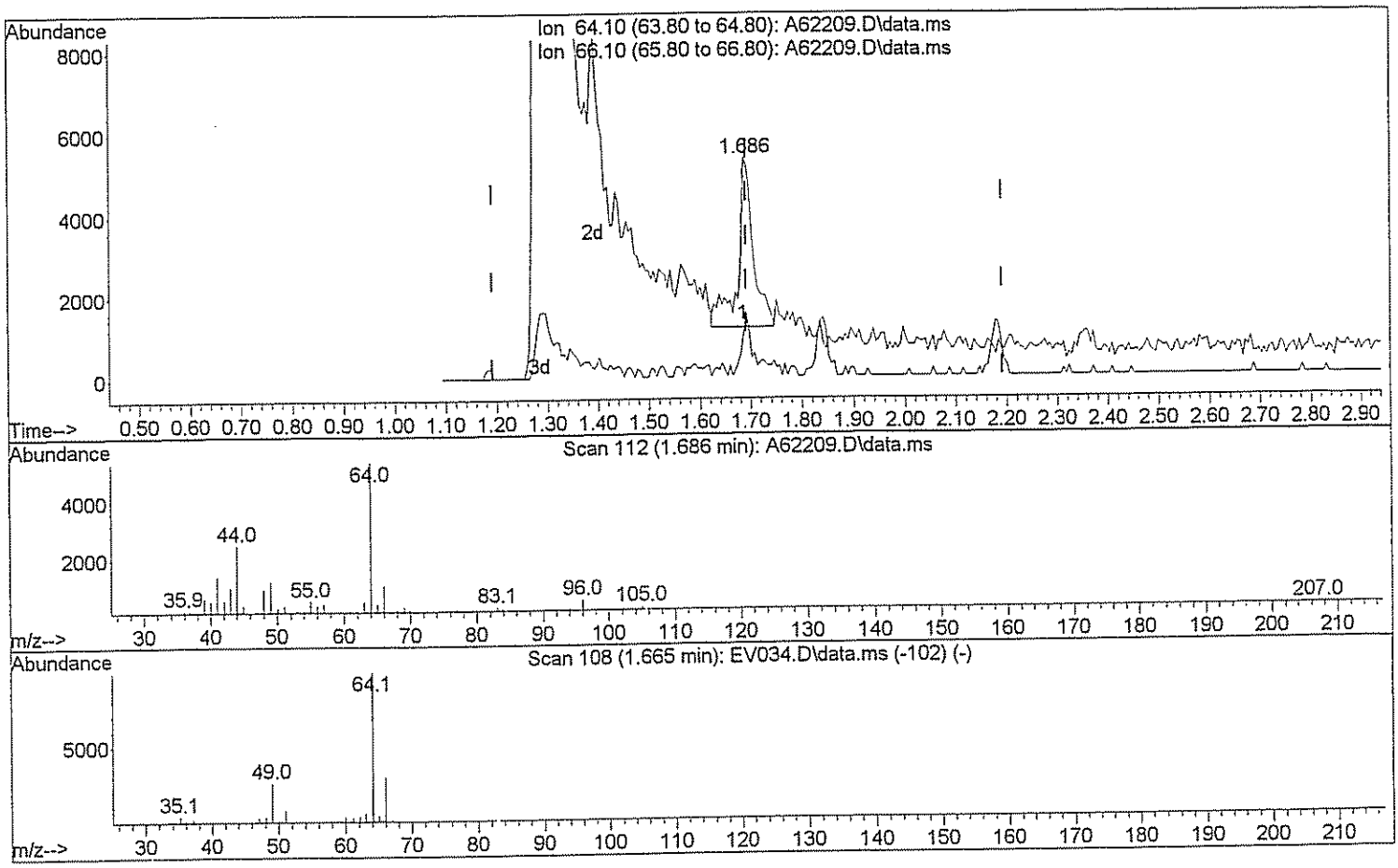
response 7032

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	29.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(6) Chloroethane

1.686min (-0.005) 4.93 ug/L m

3/17/09

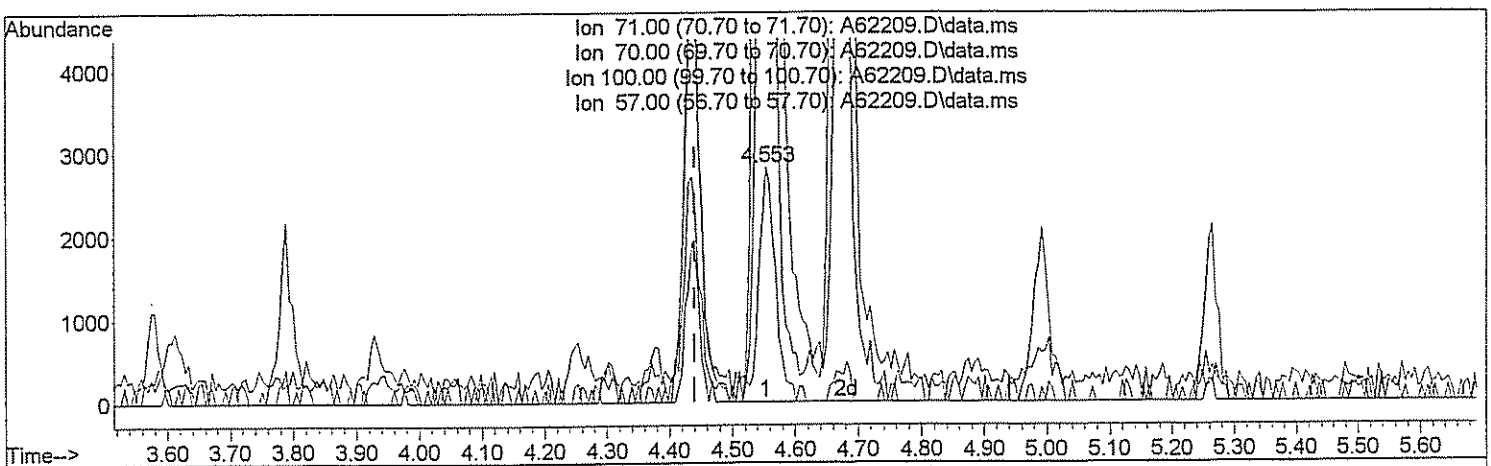
response 8923

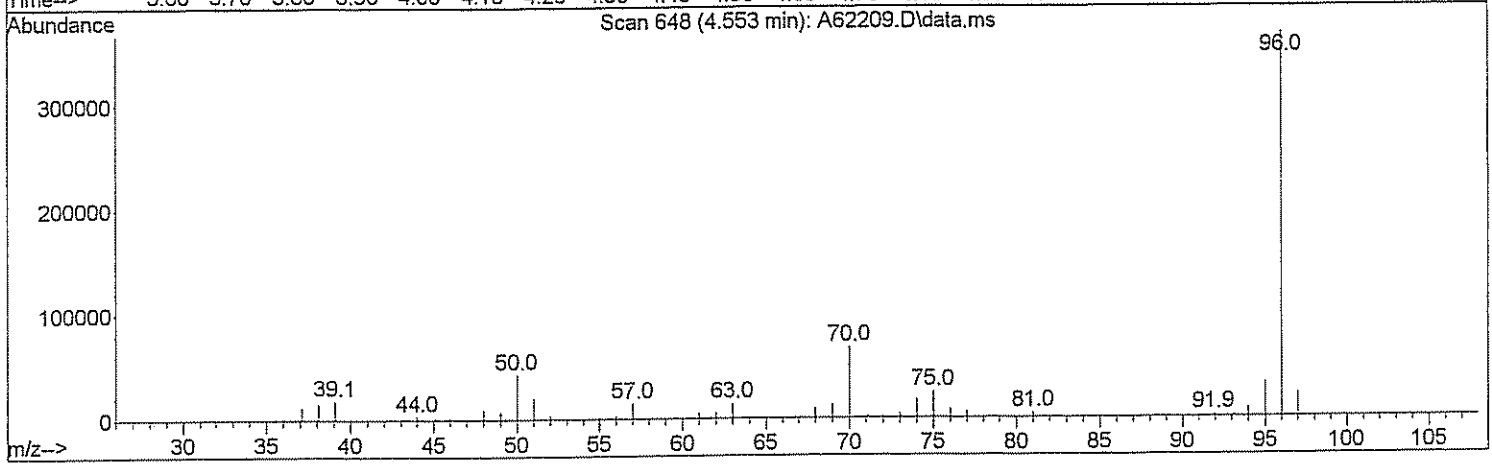
Ion	Exp%	Act%
64.10	100	100
66.10	29.60	23.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration





TIC: A62209.D\data.ms

(26) n-Heptane (T)

4.553min (+0.112) 2.38 ug/L

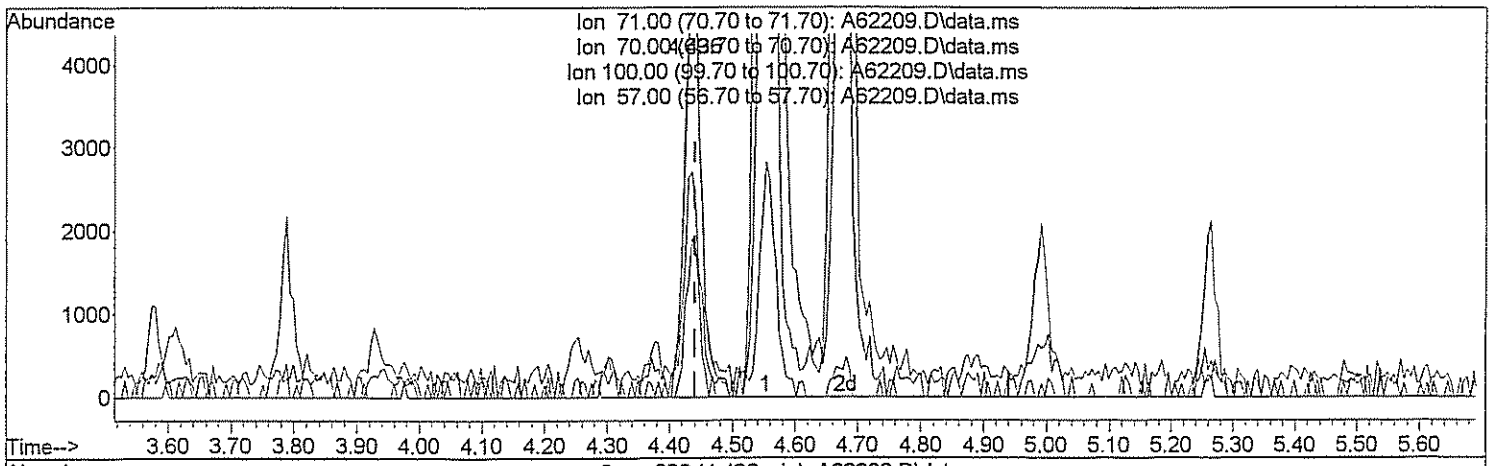
response 5249

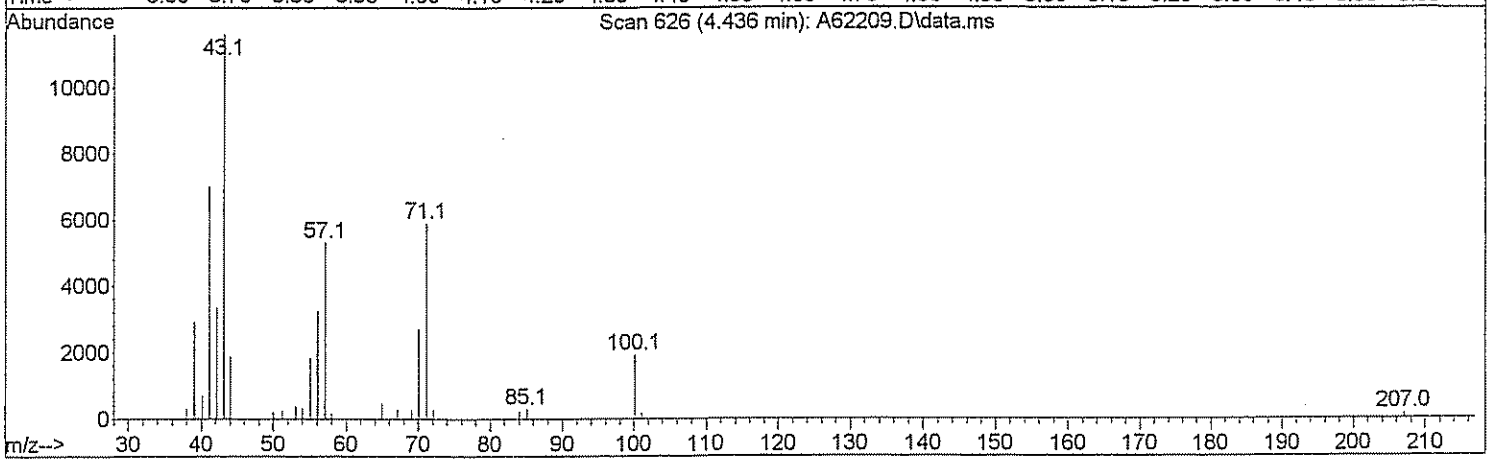
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2067.21#
100.00	62.00	0.00#
57.00	40.00	486.55#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration





TIC: A62209.D\data.ms

(26) n-Heptane (T)

4.436min (-0.005) 4.38 ug/L m DW 3/17/09

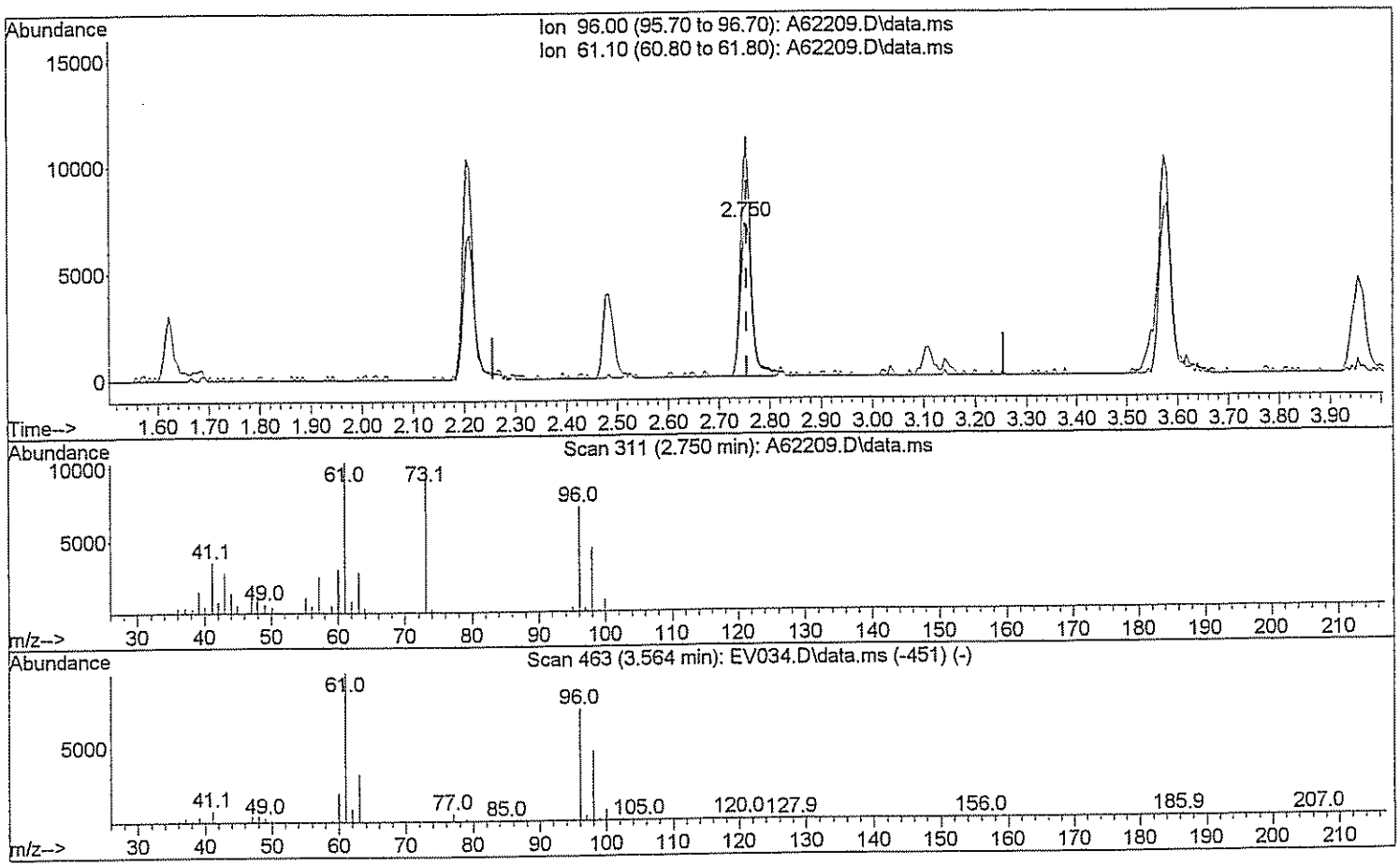
response 9657

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1123.62#
100.00	62.00	0.00#
57.00	40.00	264.46#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 3.82 ug/L

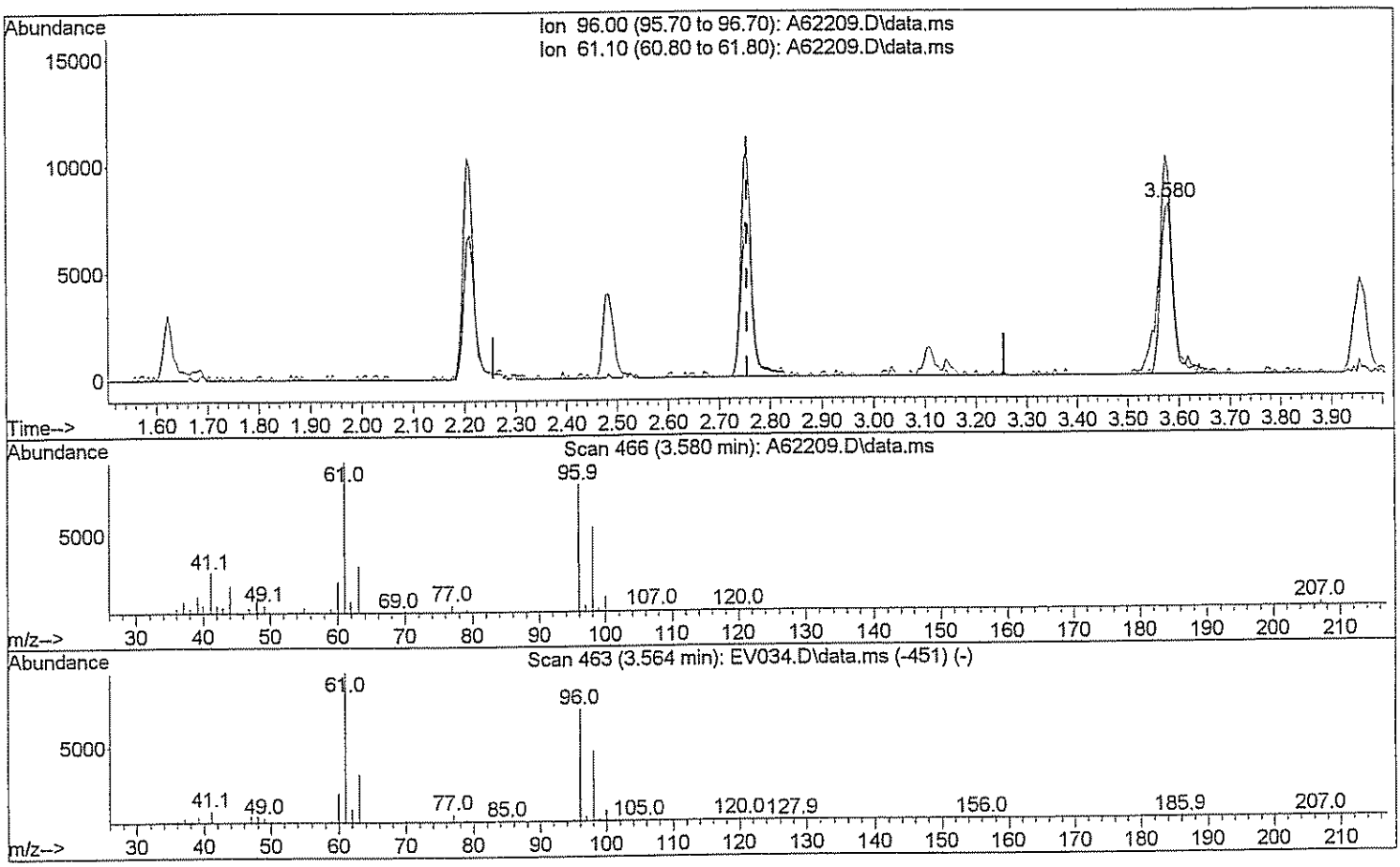
response 11537

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	134.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.824) 9.07 ug/L m 3/17/09

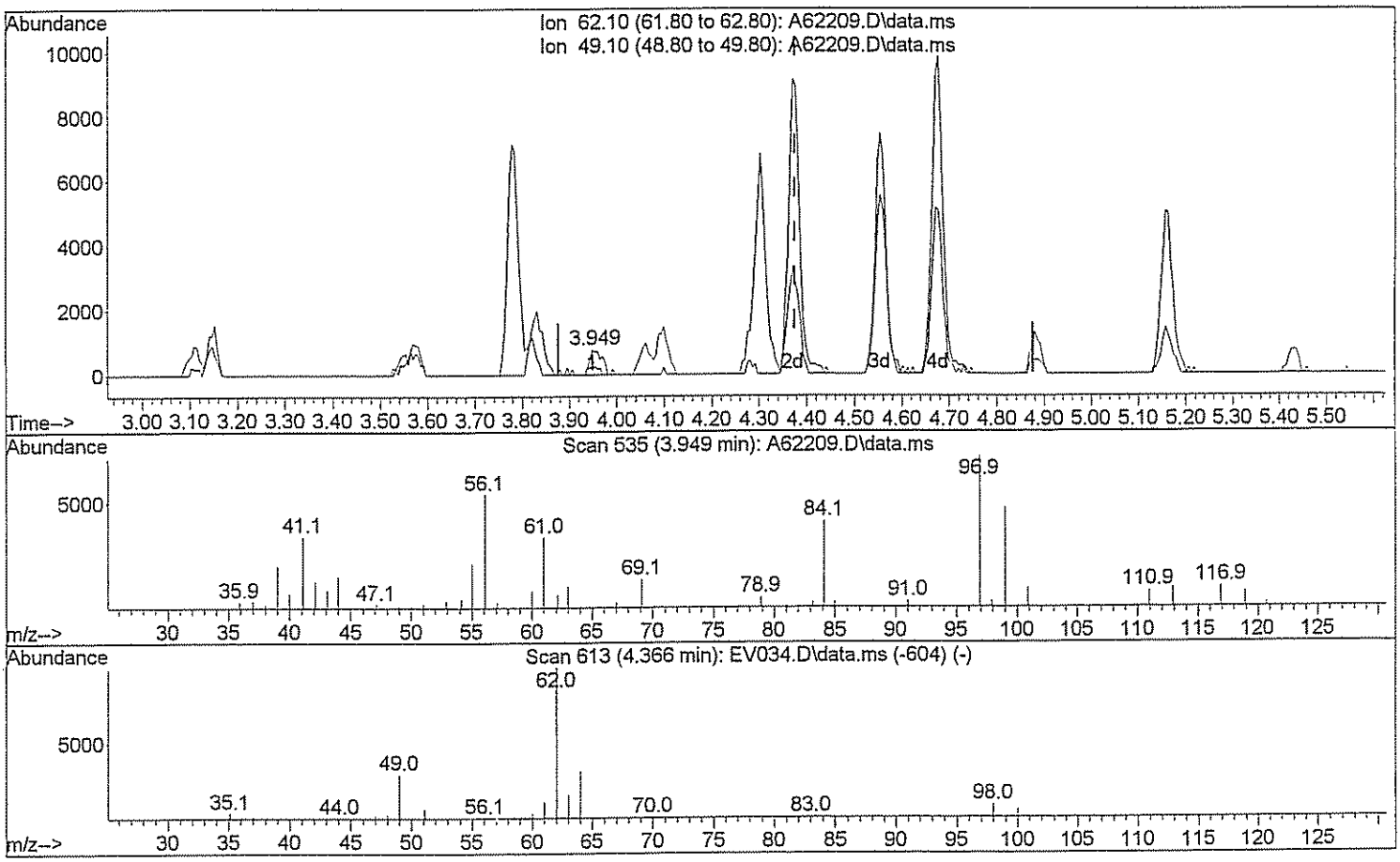
response 27425

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	56.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(46) 1,2-Dichloroethane

3.949min (-0.428) 0.37 ug/L

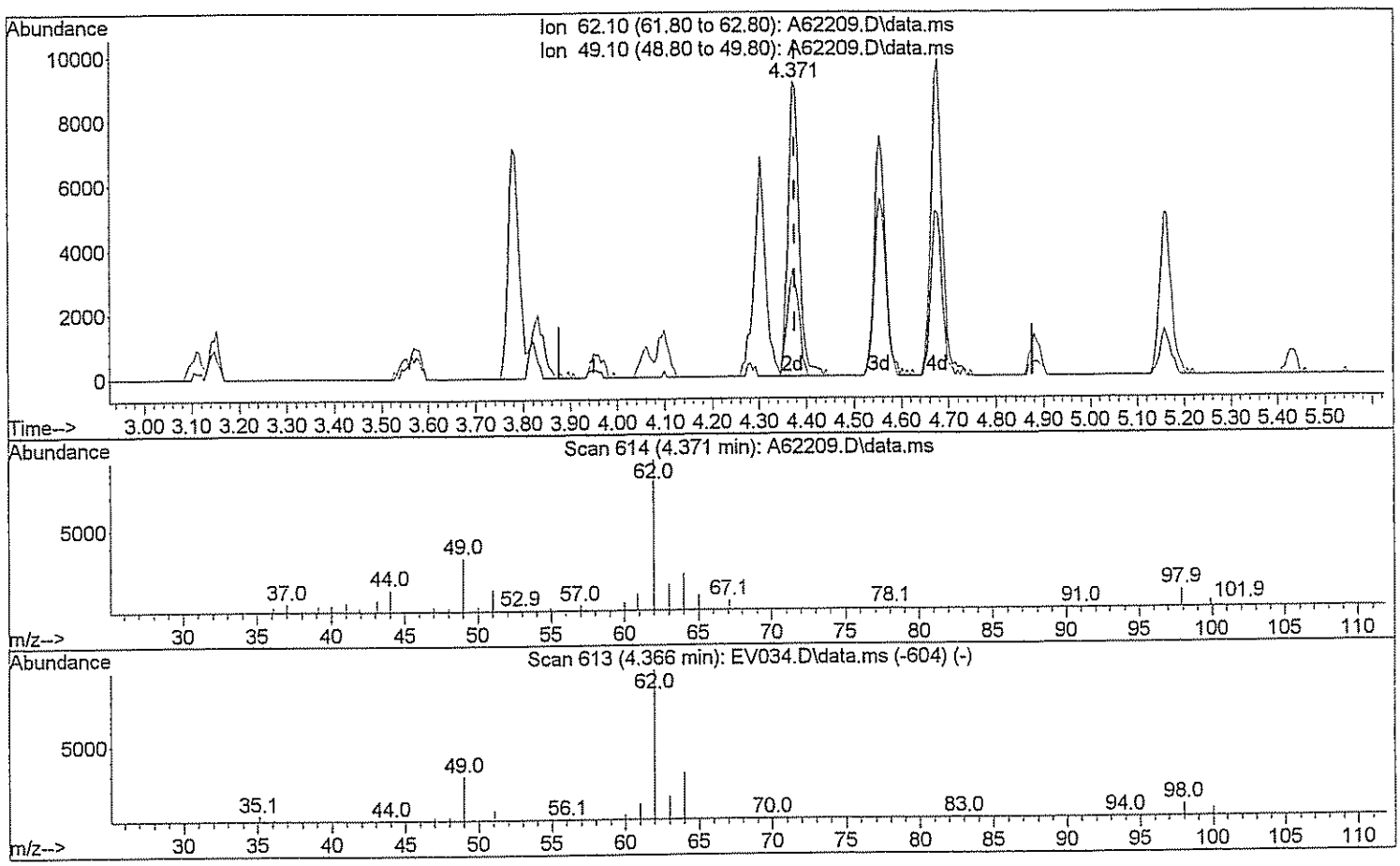
response 1349

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	28.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(46) 1,2-Dichloroethane

4.371min (-0.005) 4.16 ug/L m

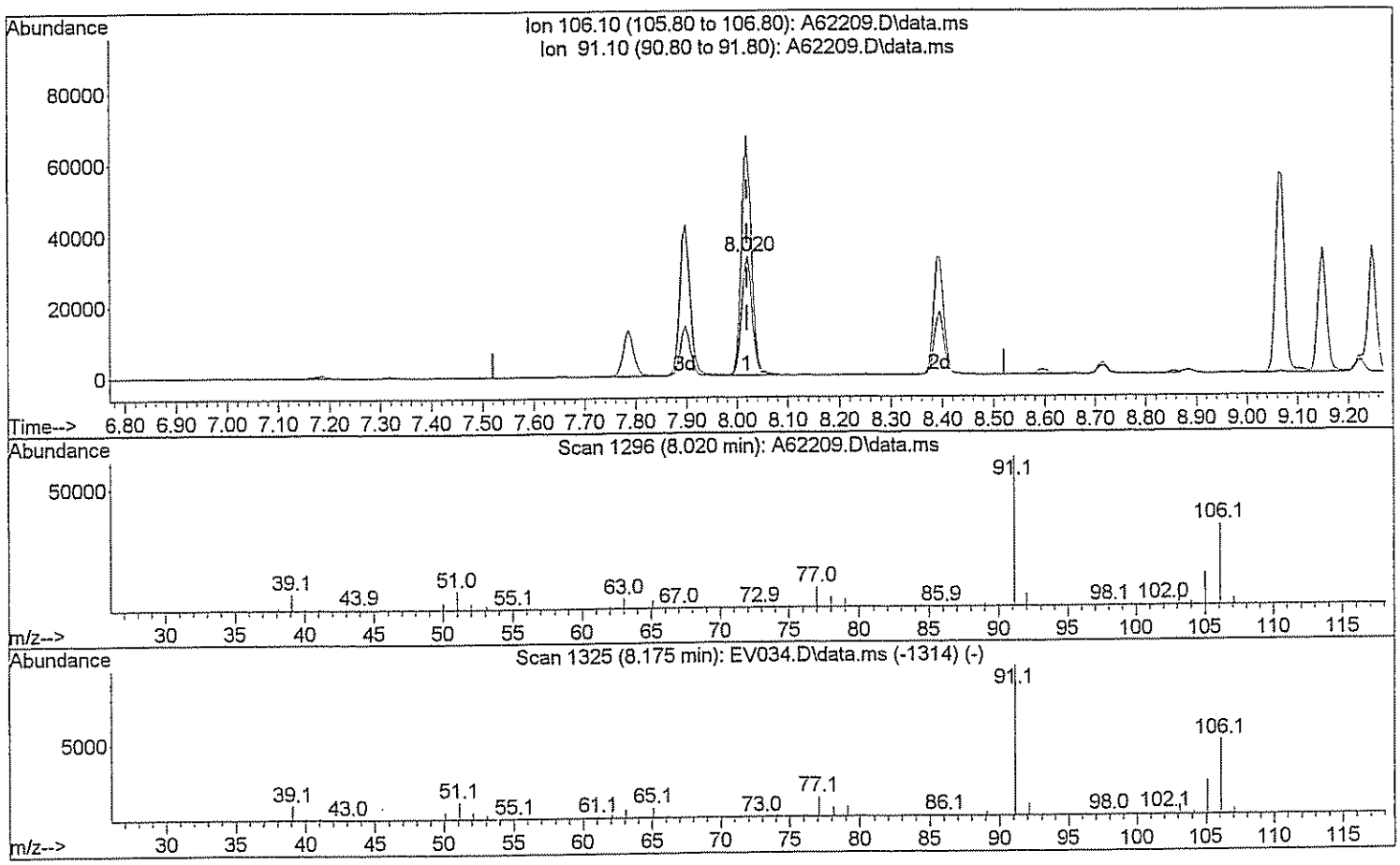
response 15061

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 8.28 ug/L

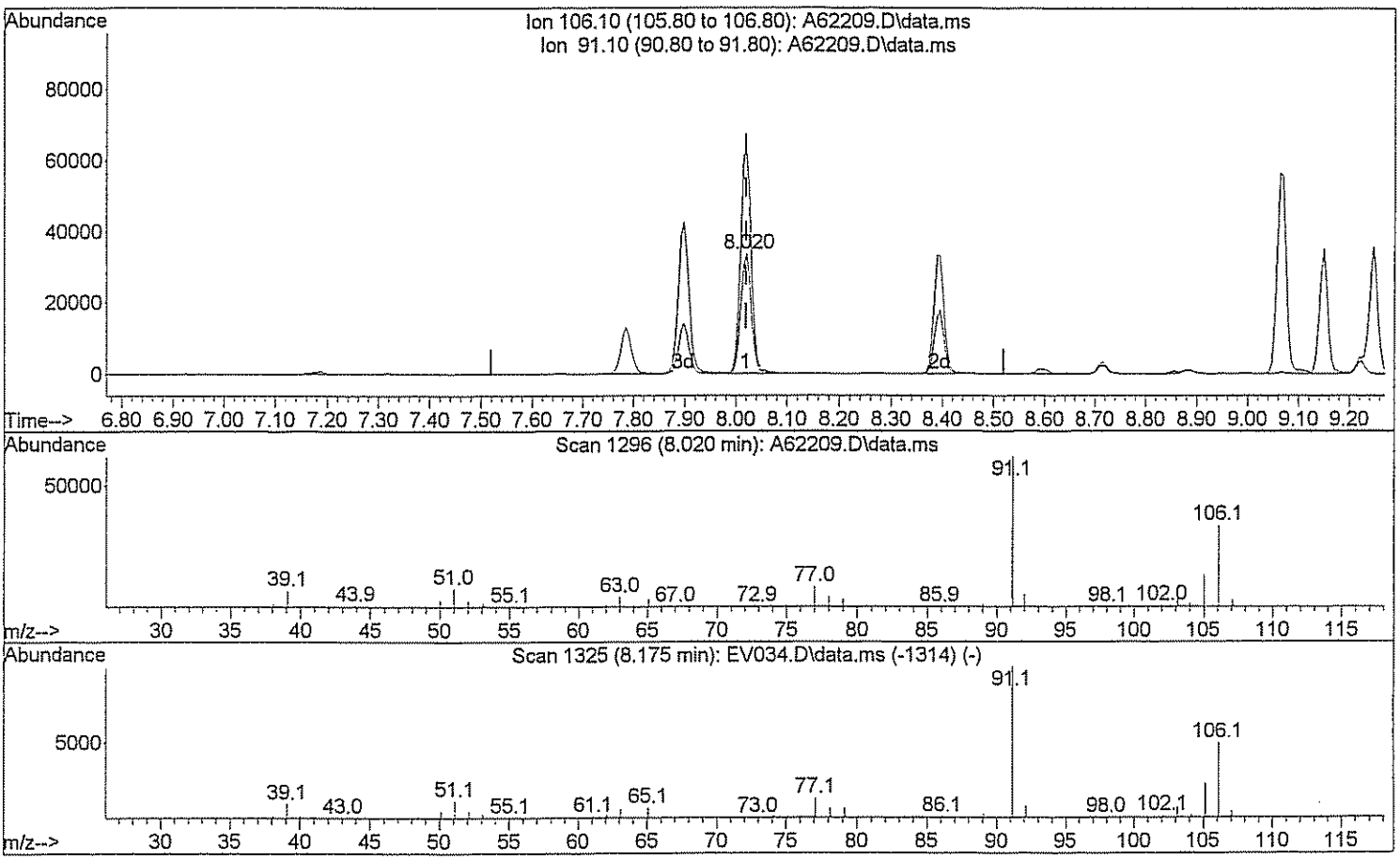
response 47385

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 12.36 ug/L m SM 3/17/09

response 70685

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.45#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	553220	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	454496	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	419468	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	145754	48.73	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.46%				
54) Toluene-d8	6.142	98	518648	48.17	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.34%				
76) 4-Bromofluorobenzene	8.881	95	198881	50.11	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.22%				
92) 1,2-Dichlorobenzene-d4	10.085	152	191647	47.67	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 95.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	22683	21.82	ug/L		97
3) Chloromethane	1.327	50	38383m	20.68	ug/L		
4) Vinyl chloride	1.397	62	42503	18.03	ug/L	#	74
5) Bromomethane	1.622	94	21911	20.64	ug/L		87
6) Chloroethane	1.691	64	31385	19.31	ug/L		93
7) Trichlorofluoromethane	1.841	101	62310	18.86	ug/L		95
8) Ethyl Ether	2.044	59	36511	16.98	ug/L		96
9) Freon 113	2.183	101	38442	21.06	ug/L		90
10) Acrolein	2.189	56	34430	84.02	ug/L	#	64
11) Tert-Butyl alcohol	2.670	59	80163	309.29	ug/L	#	47
12) 1,1-Dichloroethene	2.210	96	37050	17.23	ug/L		86
13) Iodomethane	2.333	142	44272	24.05	ug/L		93
14) Acetonitrile	2.483	40	206871	139.91	ug/L	#	1
15) Methylene chloride	2.595	84	47036	18.14	ug/L		97
16) Trans-1,2-dichloroethene	2.756	96	43592	17.46	ug/L		86
17) Isopropyl ether	3.093	45	172315	17.62	ug/L		99
18) 1,1-Dichloroethane	3.109	63	81435	17.48	ug/L		99
19) Acetone	2.296	43	31043	32.22	ug/L		99
20) Methyl Acetate	4.259	43	40988	22.85	ug/L	#	100
21) MTBE	2.740	73	116553	17.36	ug/L		100
22) Carbon disulfide	2.360	76	130326	18.68	ug/L		100
24) Acrylonitrile	2.831	53	63684	86.41	ug/L		97
25) Chloroprene	3.146	53	74629	17.82	ug/L		92
26) n-Heptane	4.441	71	41645m	21.62	ug/L		
27) 2,2-Dichloropropane	3.553	77	65546	17.57	ug/L	#	78
28) Cis-1,2-dichloroethene	3.580	96	51423	18.07	ug/L		100

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	98727m	35.66	ug/L		
30) Propionitrile	3.735	54	61322	162.62	ug/L		98
31) Bromochloromethane	3.783	128	23720	17.41	ug/L		92
32) Tetrahydrofuran	3.788	72	10883	18.06	ug/L	#	22
33) Chloroform	3.836	83	78218	15.79	ug/L		99
34) Cyclohexane	3.938	56	82196	19.97	ug/L		94
35) 1,1,1-Trichloroethane	3.959	97	67891	17.72	ug/L		98
36) Carbon tetrachloride	4.066	117	58586	17.41	ug/L		99
37) Methacrylonitrile	3.826	41	319463	153.51	ug/L	#	16
38) Methylcyclohexane	4.992	83	78324	20.75	ug/L		92
39) Isobutyl Alcohol	4.436	43	77335	452.45	ug/L		89
42) 2-Butanone	3.617	43	53217	33.16	ug/L		98
43) 1,1-Dichloropropene	4.099	75	60167	17.60	ug/L		100
44) Vinyl Acetate	3.136	43	58557	16.36	ug/L	#	95
45) Benzene	4.286	78	186683	17.77	ug/L		100
46) 1,2-Dichloroethane	4.377	62	58822	17.72	ug/L	#	85
47) Trichloroethene	4.885	95	47885	18.47	ug/L		98
48) 1,2-Dichloropropane	5.163	63	47828	17.38	ug/L		96
49) Methyl methacrylate	5.265	69	31100	17.47	ug/L		93
50) Dibromomethane	5.281	93	26649	16.54	ug/L		100
51) Bromodichloromethane	5.431	83	60679	17.62	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	27174	27.32	ug/L		99
53) Cis-1,3-dichloropropene	5.917	75	73064	16.84	ug/L		97
55) Toluene	6.217	92	120757	17.25	ug/L		97
56) Trans-1,3-dichloropropene	6.570	75	65209	16.50	ug/L		98
57) Ethyl methacrylate	6.624	69	58889	17.54	ug/L		94
58) 1,1,2-Trichloroethane	6.773	83	35068	17.24	ug/L		99
60) 4-Methyl-2-pentanone	6.094	43	95219	37.44	ug/L		95
61) 2-Hexanone	7.062	43	65905	35.06	ug/L	#	98
62) Tetrachloroethene	6.795	166	47752	17.78	ug/L		99
63) 1,3-Dichloropropane	6.971	76	66347	17.70	ug/L		93
64) Dibromochloromethane	7.185	129	48825	17.81	ug/L		95
65) 1,2-Dibromoethane	7.314	107	41606	18.45	ug/L		98
66) 1-Chlorohexane	7.785	91	68657	18.67	ug/L		98
67) Chlorobenzene	7.806	112	137741	17.81	ug/L		92
68) 1,1,1,2-Tetrachloroethane	7.908	131	48936	17.09	ug/L		94
69) Ethylbenzene	7.897	91	233839	17.81	ug/L		99
70) m,p-Xylene	8.020	106	187997	35.38	ug/L		90
71) o-Xylene	8.394	106	94963	18.42	ug/L		88
72) Xylene (Total)	8.020	106	283667m	52.95	ug/L		
73) Styrene	8.421	104	156053	17.74	ug/L		96
74) Bromoform	8.598	173	29487	16.98	ug/L		99

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

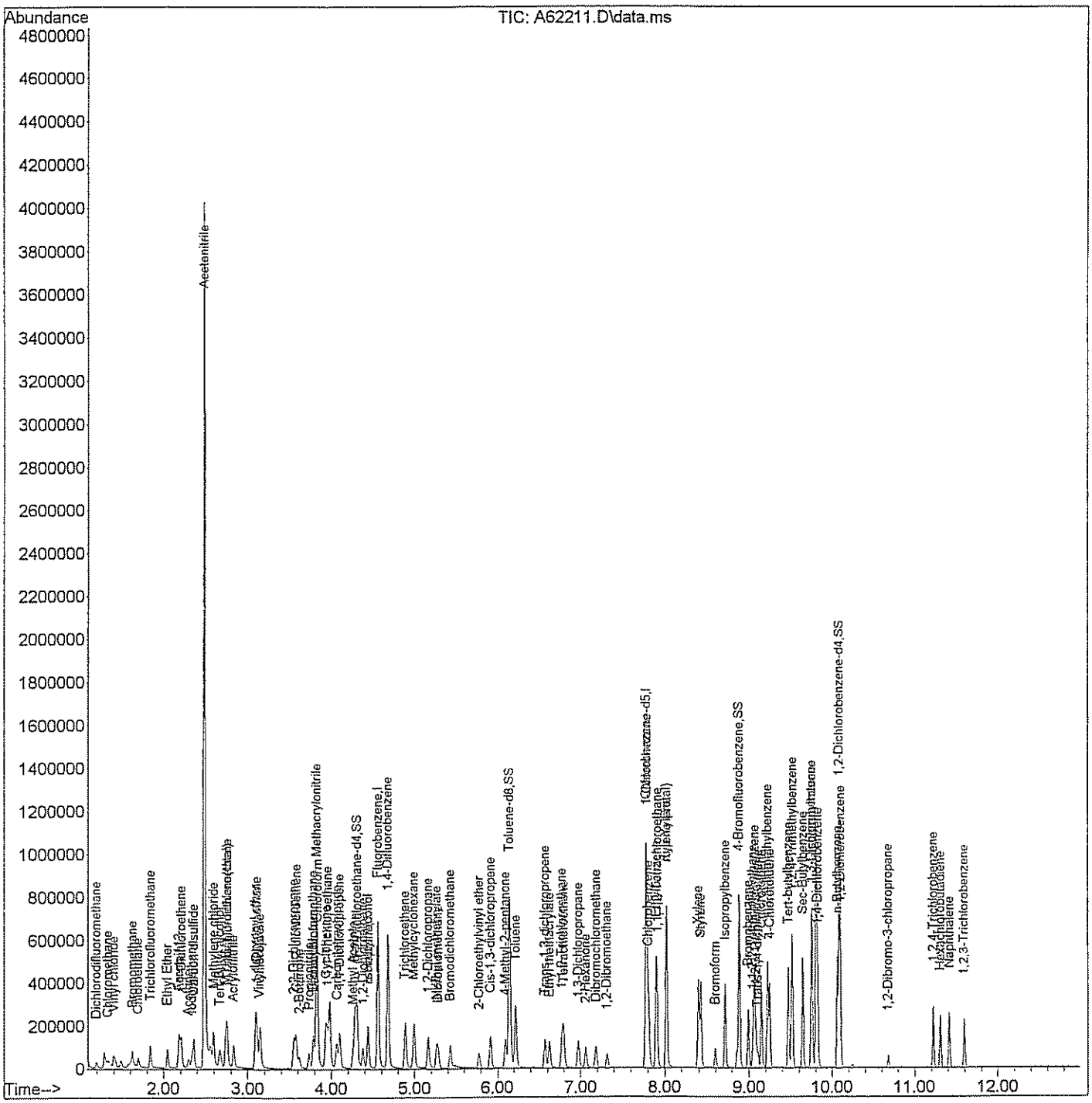
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	200704	17.88	ug/L		98
77) Bromobenzene	8.994	156	54693	17.85	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	51631	17.71	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	15281	17.96	ug/L		98
80) n-Propylbenzene	9.068	91	277751	18.11	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	10745	14.15	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	59122	18.39	ug/L		87
83) 4-Chlorotoluene	9.250	126	59717	17.79	ug/L		92
84) 1,3,5-Trimethylbenzene	9.224	105	195130	17.41	ug/L		95
85) Tert-butylbenzene	9.470	119	169553	17.29	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	198690	16.93	ug/L		92
88) Sec-Butylbenzene	9.641	105	260702	17.44	ug/L		99
89) 1,3-Dichlorobenzene	9.748	146	111192	16.52	ug/L		99
90) 4-Isopropyltoluene	9.753	119	224435	17.00	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	113933	17.23	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	104653	17.01	ug/L		98
94) n-Butylbenzene	10.063	91	210224	17.28	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	8530	16.76	ug/L		81
96) 1,2,4-Trichlorobenzene	11.224	180	60919	16.13	ug/L		99
97) Hexachlorobutadiene	11.305	225	28493	16.01	ug/L		96
98) Naphthalene	11.412	128	147178	16.20	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	51745	16.32	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

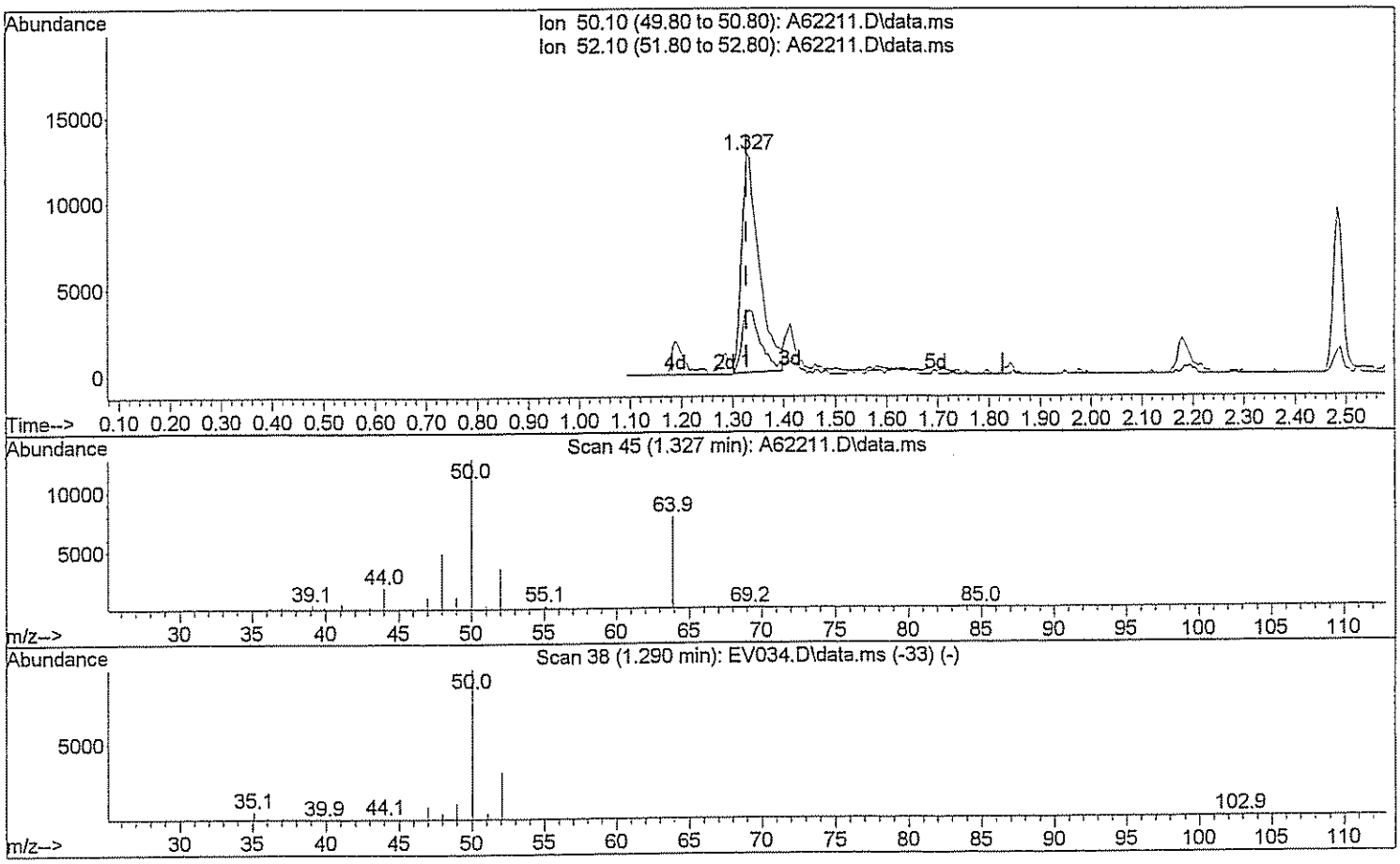
Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(3) Chloromethane

1.327min (-0.000) 16.63 ug/L

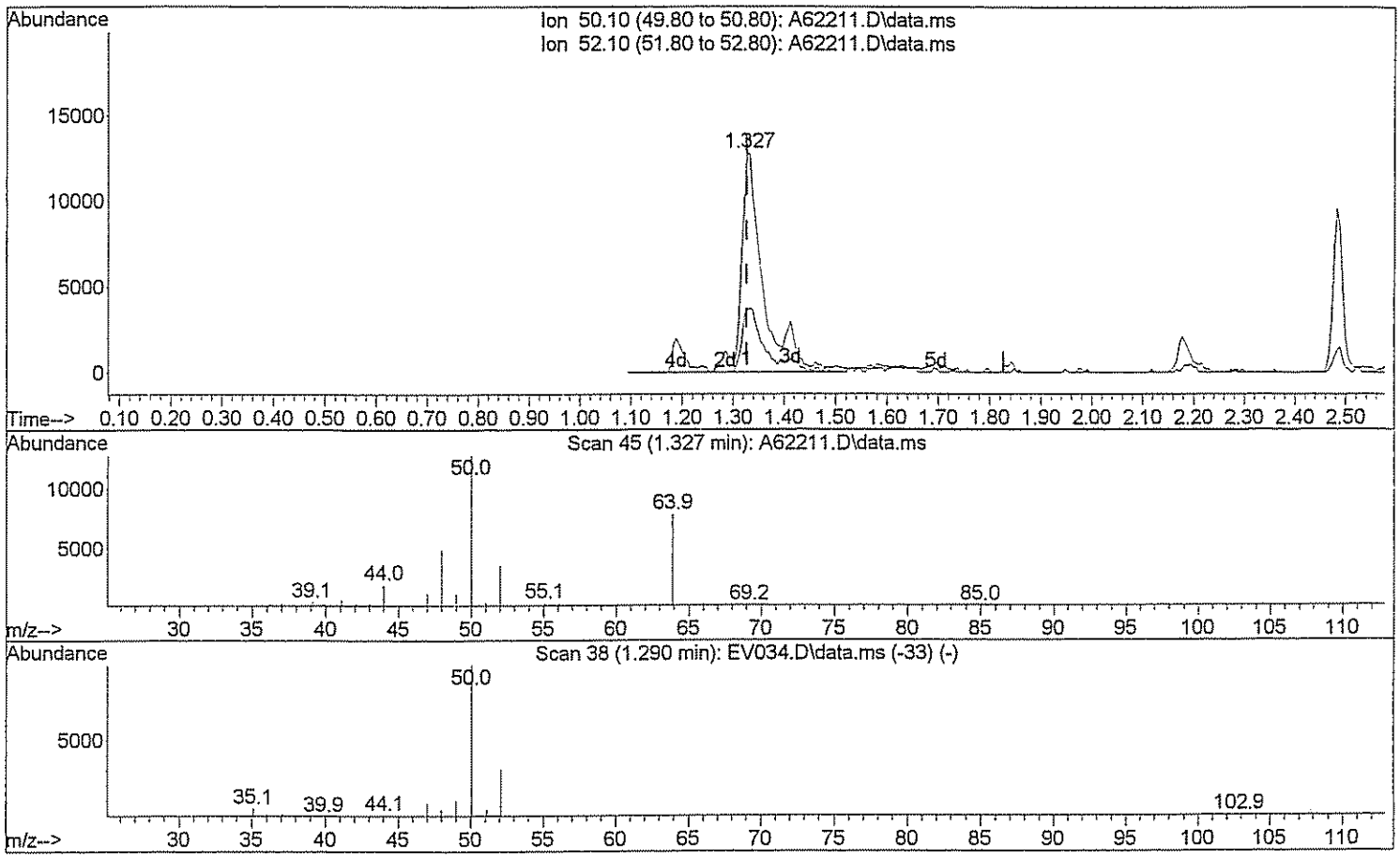
response 30866

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	31.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(3) Chloromethane

1.327min (-0.000) 20.68 ug/L m DM 3/17/09

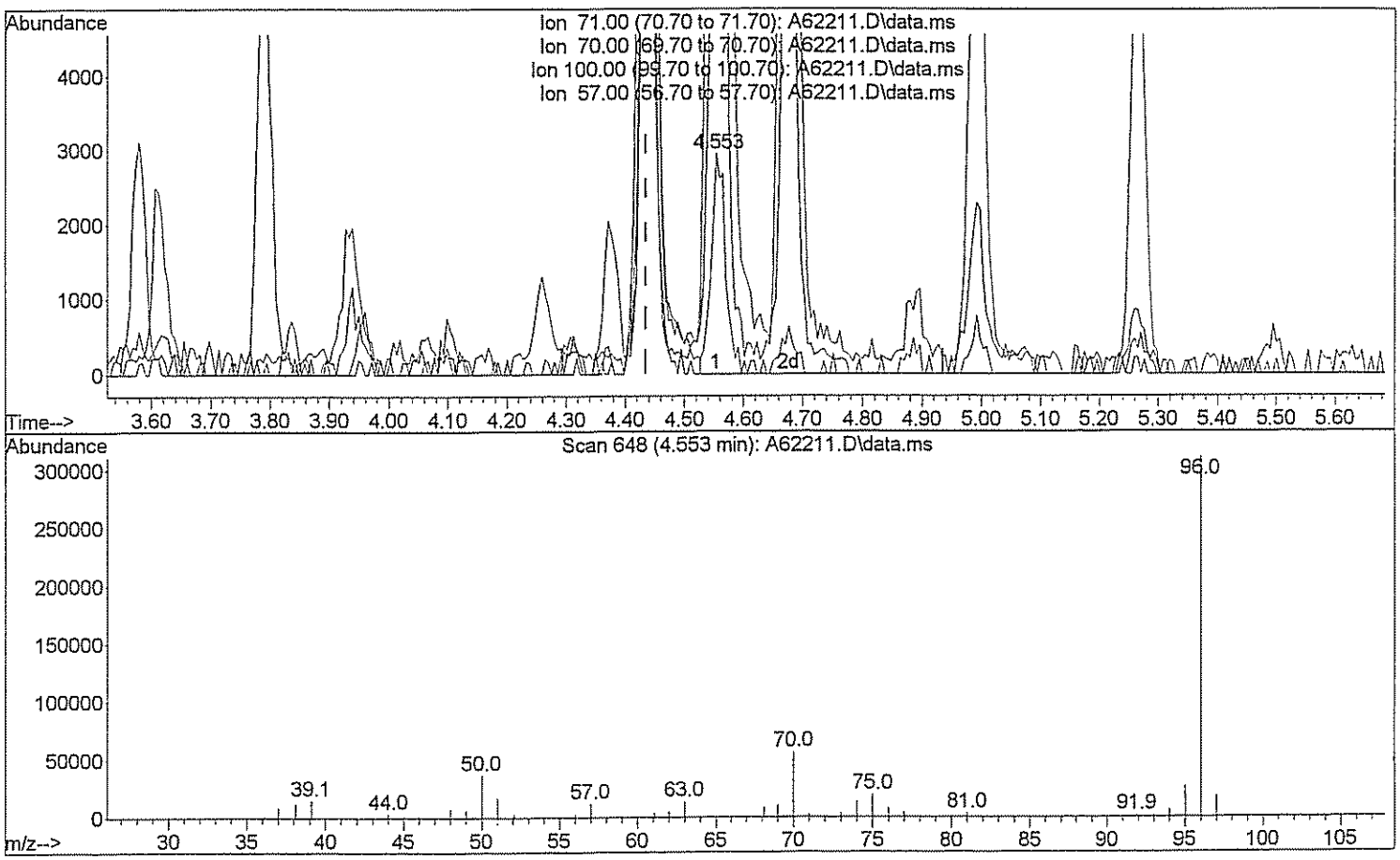
response 38383

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	24.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.60 ug/L

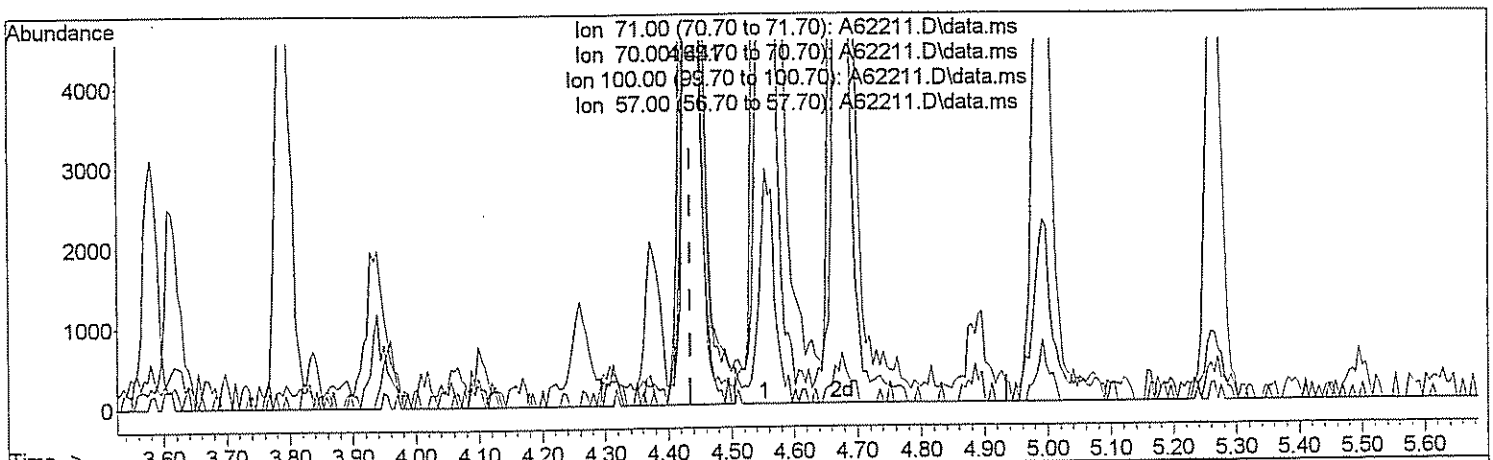
response 5014

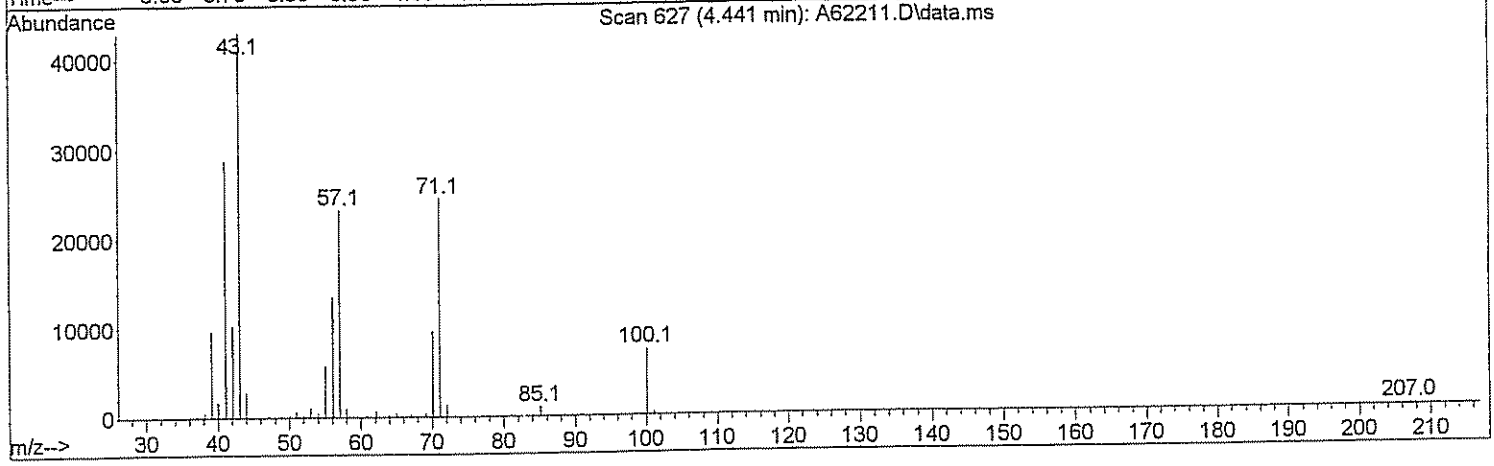
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1952.27#
100.00	62.00	0.00#
57.00	40.00	404.87#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration





TIC: A62211.D\data.ms

(26) n-Heptane (T)

4.441min (+0.005) 21.62 ug/L m DW 3/17/09

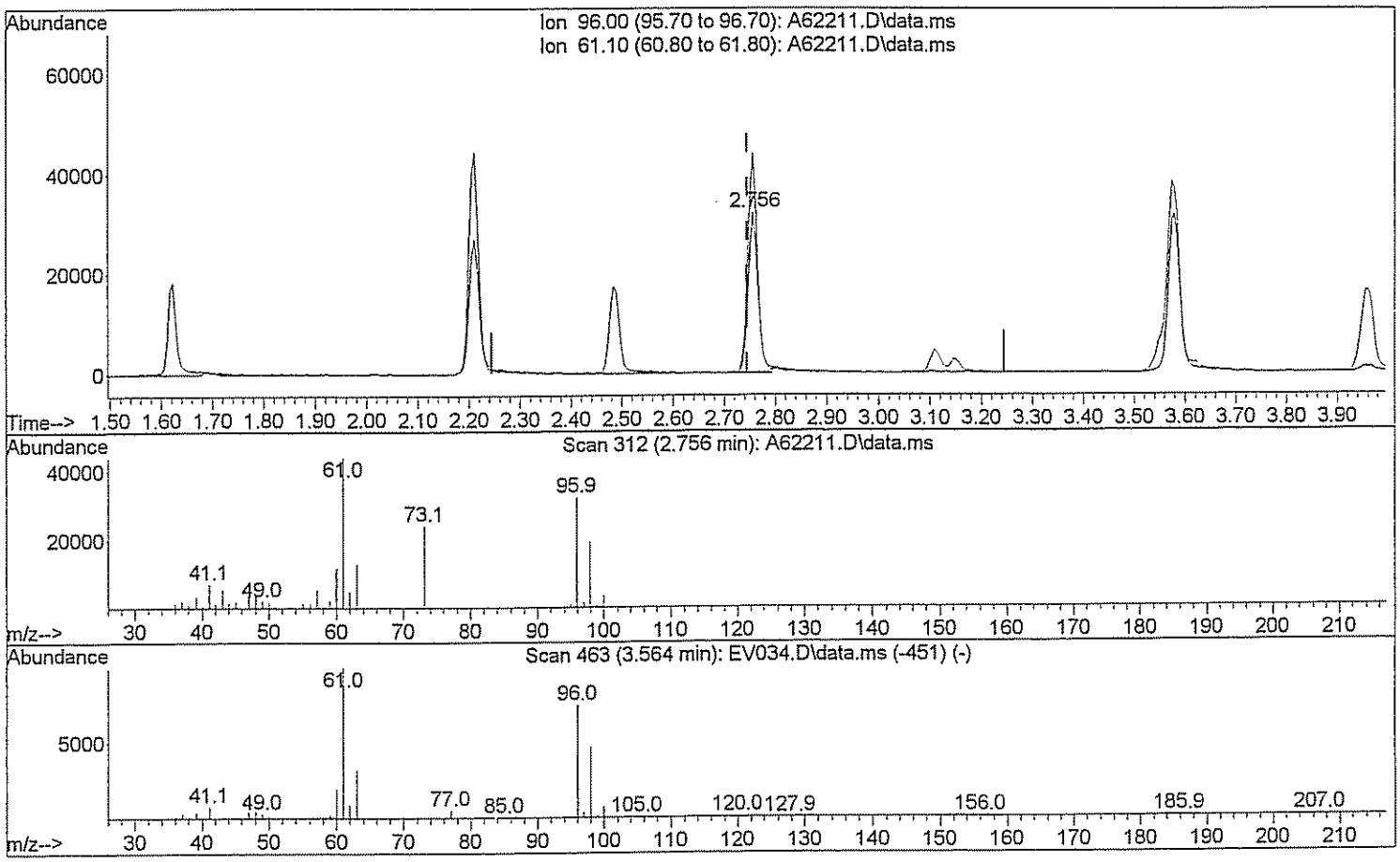
response 41645

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	235.05#
100.00	62.00	0.00#
57.00	40.00	48.75#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.011) 15.74 ug/L

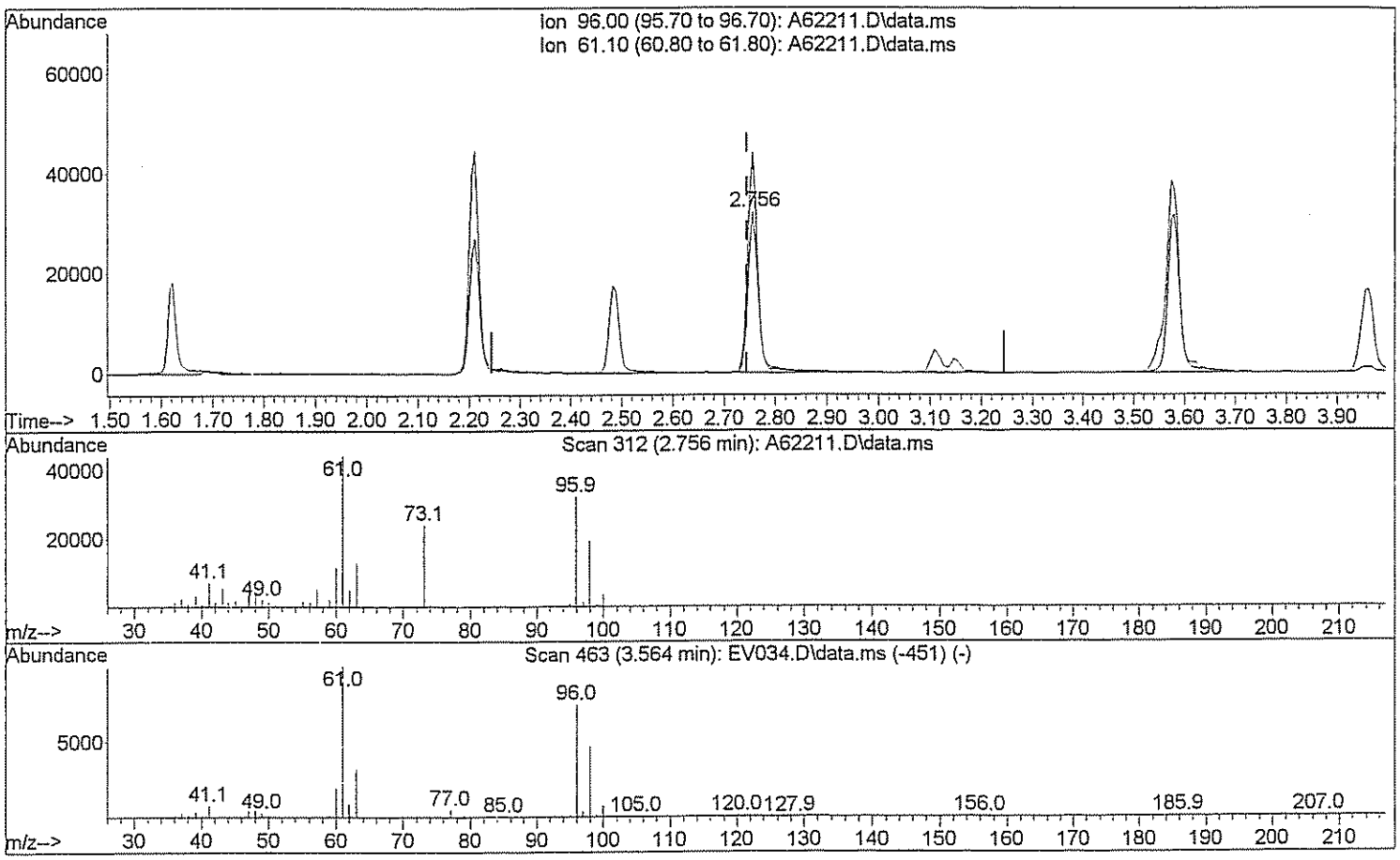
response 43592

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	136.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.011) 35.66 ug/L m DM 3/17/09

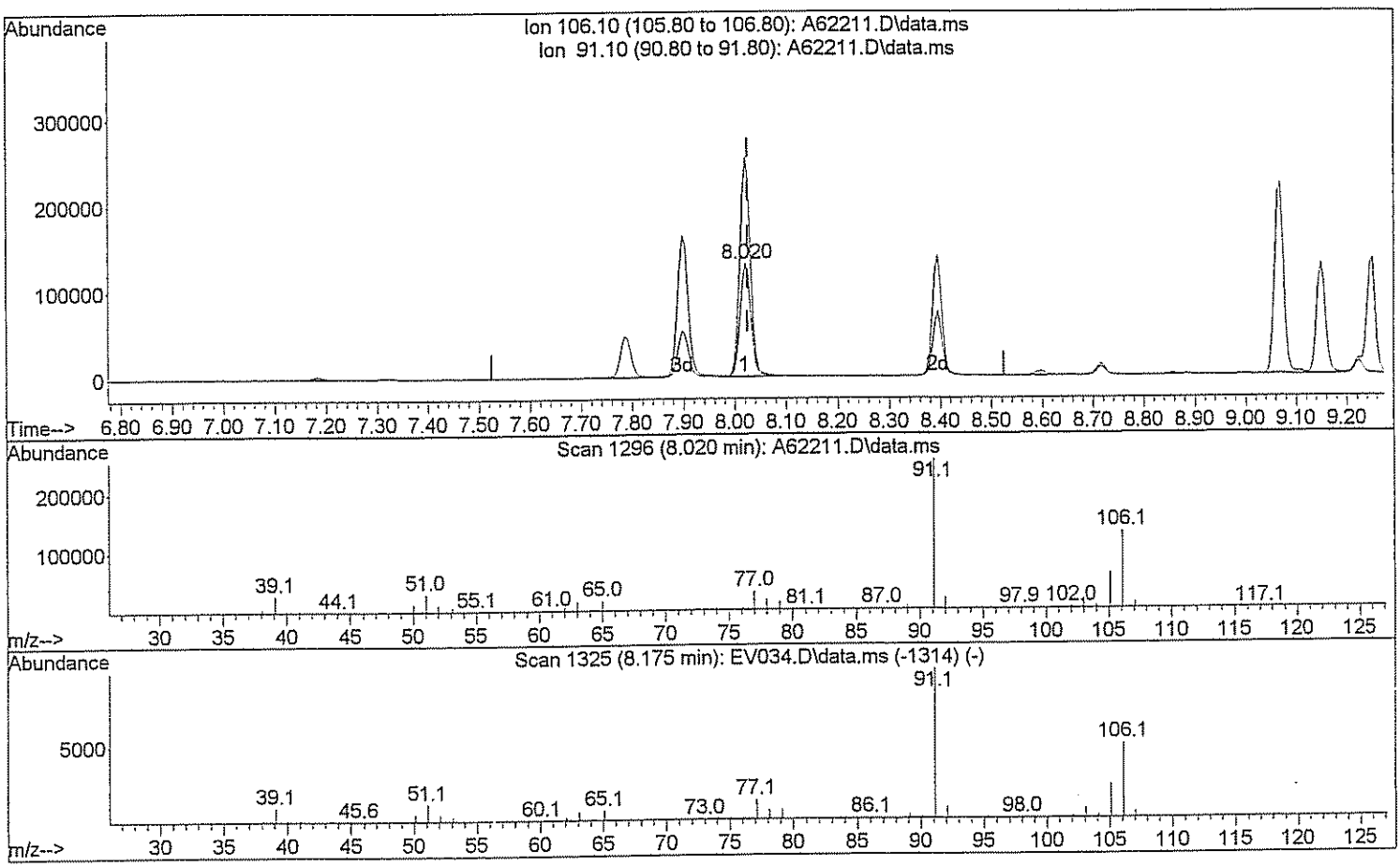
response 98727

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(72) Xylene (Total)

8.020min (-0.005) 35.09 ug/L

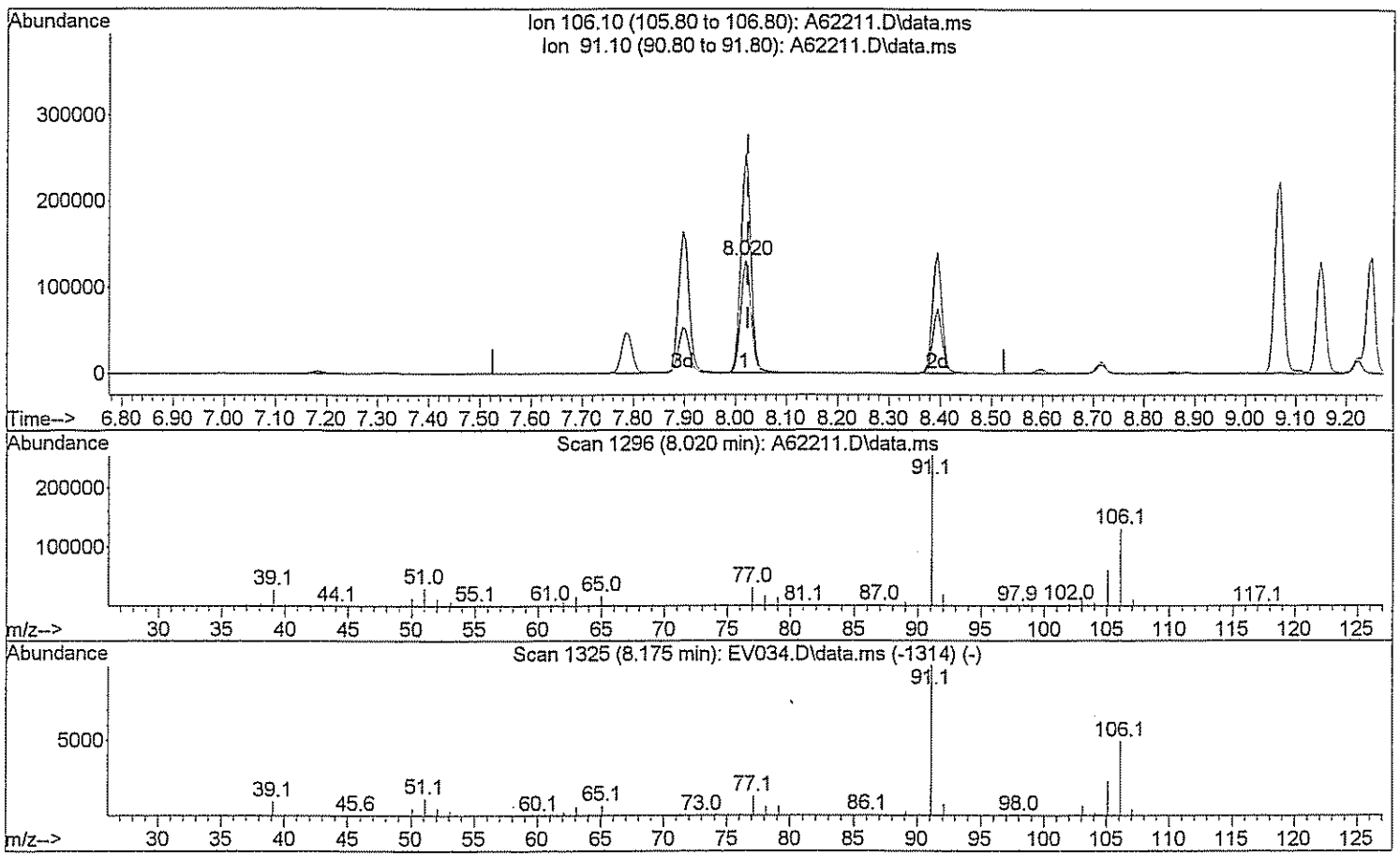
response 187997

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(72) Xylene (Total)

8.020min (-0.005) 52.95 ug/L m

response 283667

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.02#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	517488	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	422933	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	401270	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	136891	50.00	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.00%				
54) Toluene-d8	6.142	98	489895	50.00	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.00%				
76) 4-Bromofluorobenzene	8.881	95	191568	50.00	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.00%				
92) 1,2-Dichlorobenzene-d4	10.085	152	186765	50.00	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 100.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	50493	50.00	ug/L		99
3) Chloromethane	1.333	50	75038	50.00	ug/L		99
4) Vinyl chloride	1.392	62	109090	50.00	ug/L		89
5) Bromomethane	1.616	94	40459	50.00	ug/L		93
6) Chloroethane	1.681	64	73681	50.00	ug/L		98
7) Trichlorofluoromethane	1.830	101	150042	50.00	ug/L		99
8) Ethyl Ether	2.044	59	98047	50.00	ug/L		97
9) Freon 113	2.173	101	85406	50.00	ug/L		88
10) Acrolein	2.189	56	92821	250.00	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	267348	1000.00	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	97387	50.00	ug/L		88
13) Iodomethane	2.328	142	47106	50.00	ug/L		98
14) Acetonitrile	2.478	40	640731	500.00	ug/L	#	1
15) Methylene chloride	2.590	84	116172	50.00	ug/L		97
16) Trans-1,2-dichloroethene	2.750	96	114422	50.00	ug/L		88
17) Isopropyl ether	3.093	45	452281	50.00	ug/L		97
18) 1,1-Dichloroethane	3.104	63	212749	50.00	ug/L		100
19) Acetone	2.296	43	93893	100.00	ug/L		98
20) Methyl Acetate	4.259	43	132527	50.00	ug/L	#	100
21) MTBE	2.740	73	315419	50.00	ug/L		100
22) Carbon disulfide	2.349	76	315893	50.00	ug/L		100
24) Acrylonitrile	2.831	53	172844	250.00	ug/L		100
25) Chloroprene	3.146	53	183033	50.00	ug/L		89
26) n-Heptane	4.436	71	89309m	49.81	ug/L		
27) 2,2-Dichloropropane	3.548	77	172586	50.00	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	130958	50.00	ug/L		95

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.750	96	250709m	99.75	ug/L		
30) Propionitrile	3.735	54	181196	500.00	ug/L		100
31) Bromochloromethane	3.778	128	61344	50.00	ug/L		94
32) Tetrahydrofuran	3.788	72	28703	50.00	ug/L	#	1
33) Chloroform	3.836	83	206436	50.00	ug/L		99
34) Cyclohexane	3.933	56	185439	50.00	ug/L		92
35) 1,1,1-Trichloroethane	3.954	97	172467	50.00	ug/L		100
36) Carbon tetrachloride	4.061	117	150120	50.00	ug/L		97
37) Methacrylonitrile	3.826	41	905465	500.00	ug/L	#	16
38) Methylcyclohexane	4.992	83	172498	50.00	ug/L		93
39) Isobutyl Alcohol	4.436	43	164334	1000.00	ug/L		90
42) 2-Butanone	3.612	43	156619	100.00	ug/L		96
43) 1,1-Dichloropropene	4.099	75	156550	50.00	ug/L		98
44) Vinyl Acetate	3.130	43	169548	50.00	ug/L		98
45) Benzene	4.280	78	472720	50.00	ug/L		100
46) 1,2-Dichloroethane	4.371	62	151934	50.00	ug/L	#	85
47) Trichloroethene	4.885	95	117651	50.00	ug/L		92
48) 1,2-Dichloropropane	5.163	63	126153	50.00	ug/L		93
49) Methyl methacrylate	5.259	69	84950	50.00	ug/L		100
50) Dibromomethane	5.276	93	74340	50.00	ug/L		99
51) Bromodichloromethane	5.431	83	159151	50.00	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	279014	200.00	ug/L		97
53) Cis-1,3-dichloropropene	5.912	75	198463	50.00	ug/L		99
55) Toluene	6.217	92	313028	50.00	ug/L		100
56) Trans-1,3-dichloropropene	6.570	75	182970	50.00	ug/L		97
57) Ethyl methacrylate	6.624	69	154204	50.00	ug/L		95
58) 1,1,2-Trichloroethane	6.773	83	93153	50.00	ug/L		99
60) 4-Methyl-2-pentanone	6.094	43	257968	100.00	ug/L		99
61) 2-Hexanone	7.062	43	190783	100.00	ug/L		98
62) Tetrachloroethene	6.789	166	122244	50.00	ug/L		95
63) 1,3-Dichloropropane	6.971	76	181121	50.00	ug/L		92
64) Dibromochloromethane	7.185	129	129242	50.00	ug/L		98
65) 1,2-Dibromoethane	7.314	107	108267	50.00	ug/L		97
66) 1-Chlorohexane	7.785	91	175461	50.00	ug/L		92
67) Chlorobenzene	7.806	112	363383	50.00	ug/L		89
68) 1,1,1,2-Tetrachloroethane	7.908	131	131724	50.00	ug/L		98
69) Ethylbenzene	7.897	91	604763	50.00	ug/L		98
70) m,p-Xylene	8.020	106	496360	100.00	ug/L		90
71) o-Xylene	8.394	106	241033	50.00	ug/L		93
72) Xylene (Total)	8.020	106	737592m	149.98	ug/L		
73) Styrene	8.421	104	410712	50.00	ug/L		95
74) Bromoform	8.598	173	85091	50.00	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

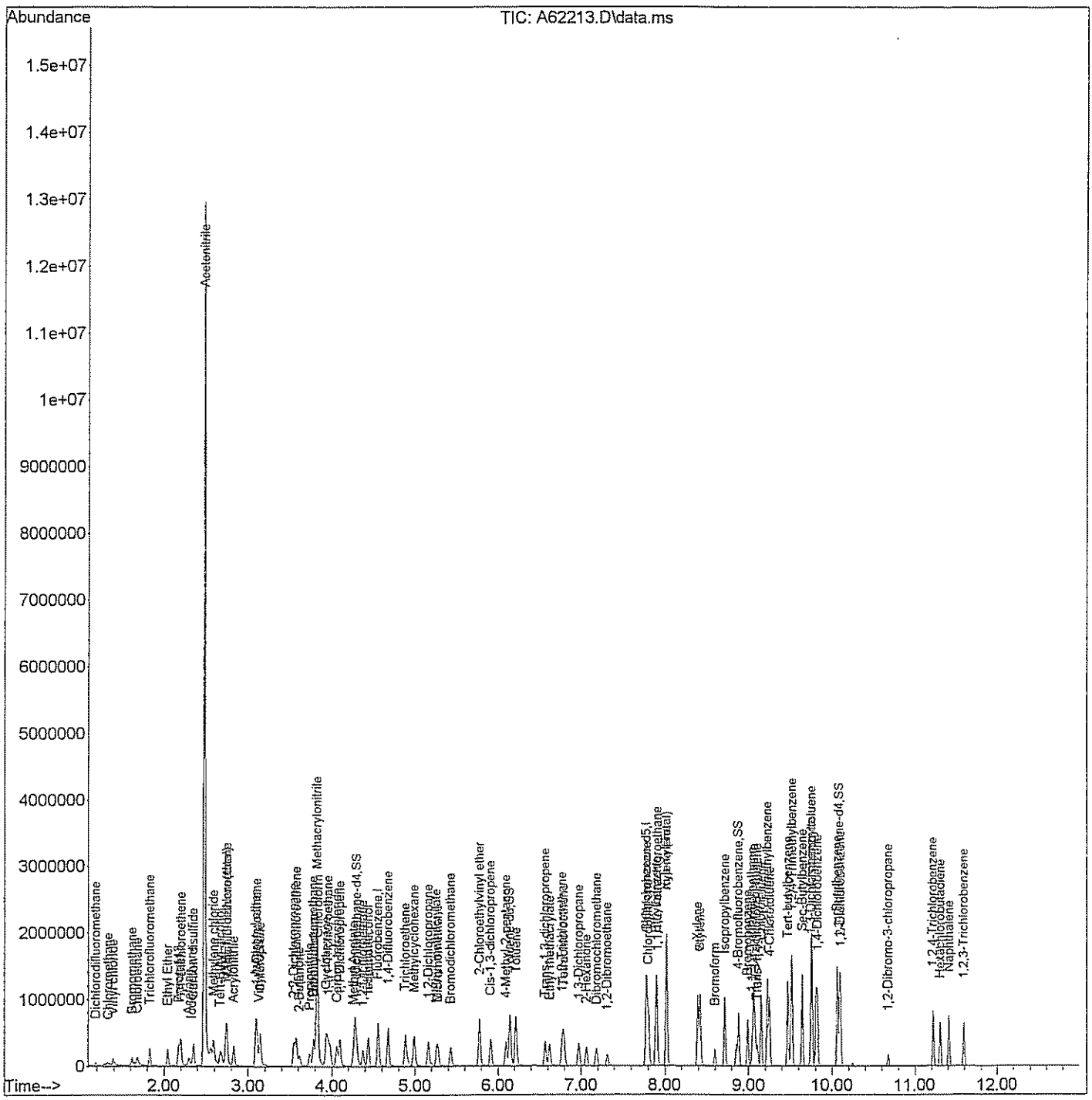
Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	521416	50.00	ug/L		97
77) Bromobenzene	8.994	156	142716	50.00	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	142875	50.00	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	41981	50.00	ug/L		97
80) n-Propylbenzene	9.063	91	719141	50.00	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	43806	50.00	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	154063	50.00	ug/L		86
83) 4-Chlorotoluene	9.250	126	156819	50.00	ug/L		92
84) 1,3,5-Trimethylbenzene	9.224	105	514134	50.00	ug/L		95
85) Tert-butylbenzene	9.470	119	450241	50.00	ug/L		97
87) 1,2,4-Trimethylbenzene	9.518	105	528715	50.00	ug/L		93
88) Sec-Butylbenzene	9.641	105	692528	50.00	ug/L		99
89) 1,3-Dichlorobenzene	9.743	146	296768	50.00	ug/L		98
90) 4-Isopropyltoluene	9.753	119	604752	50.00	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	300653	50.00	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	276122	50.00	ug/L		97
94) n-Butylbenzene	10.058	91	560174	50.00	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	24817	50.00	ug/L	#	78
96) 1,2,4-Trichlorobenzene	11.219	180	167452	50.00	ug/L		99
97) Hexachlorobutadiene	11.305	225	78952	50.00	ug/L		100
98) Naphthalene	11.412	128	442312	50.00	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	145394	50.00	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

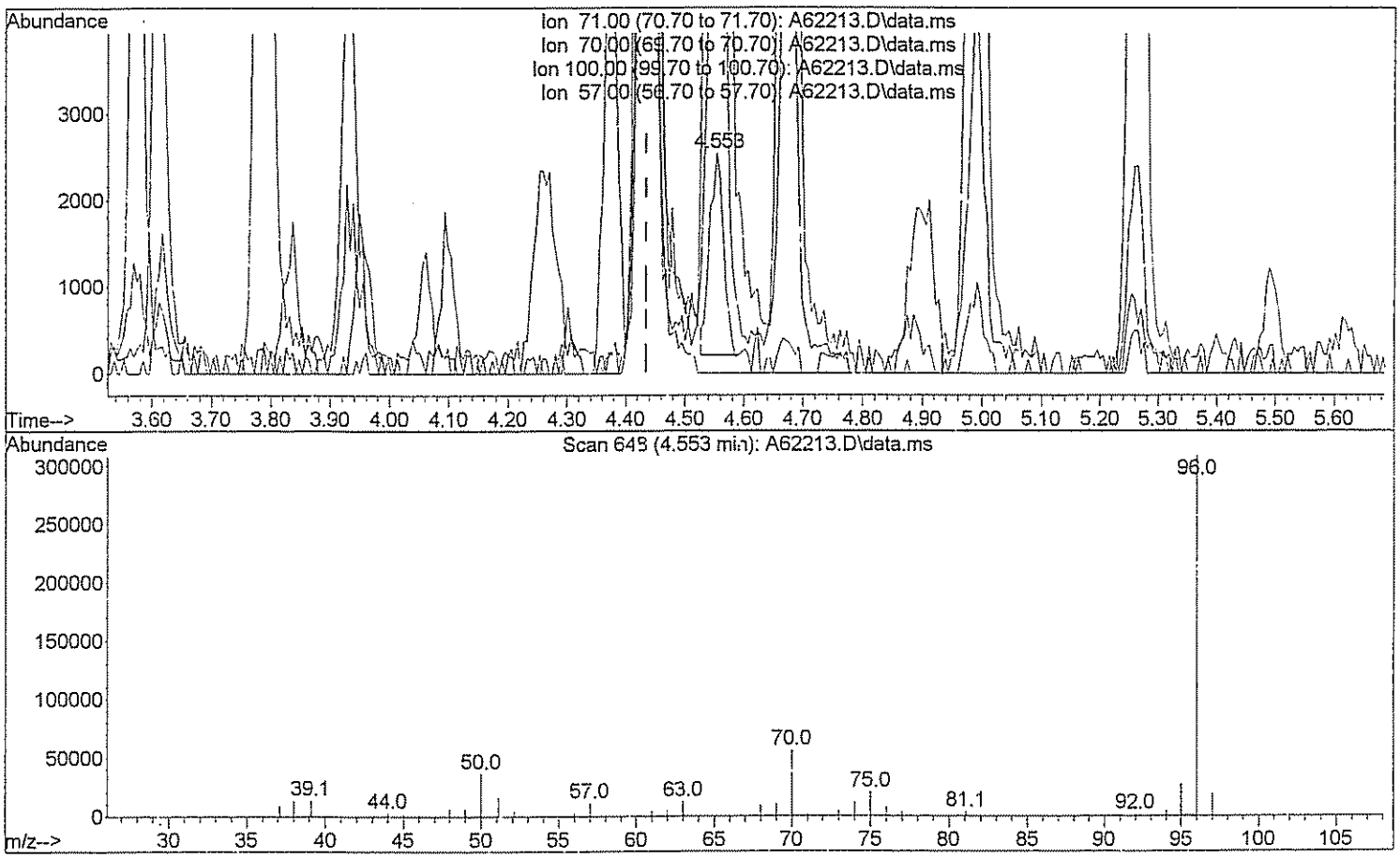
Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.13 ug/L

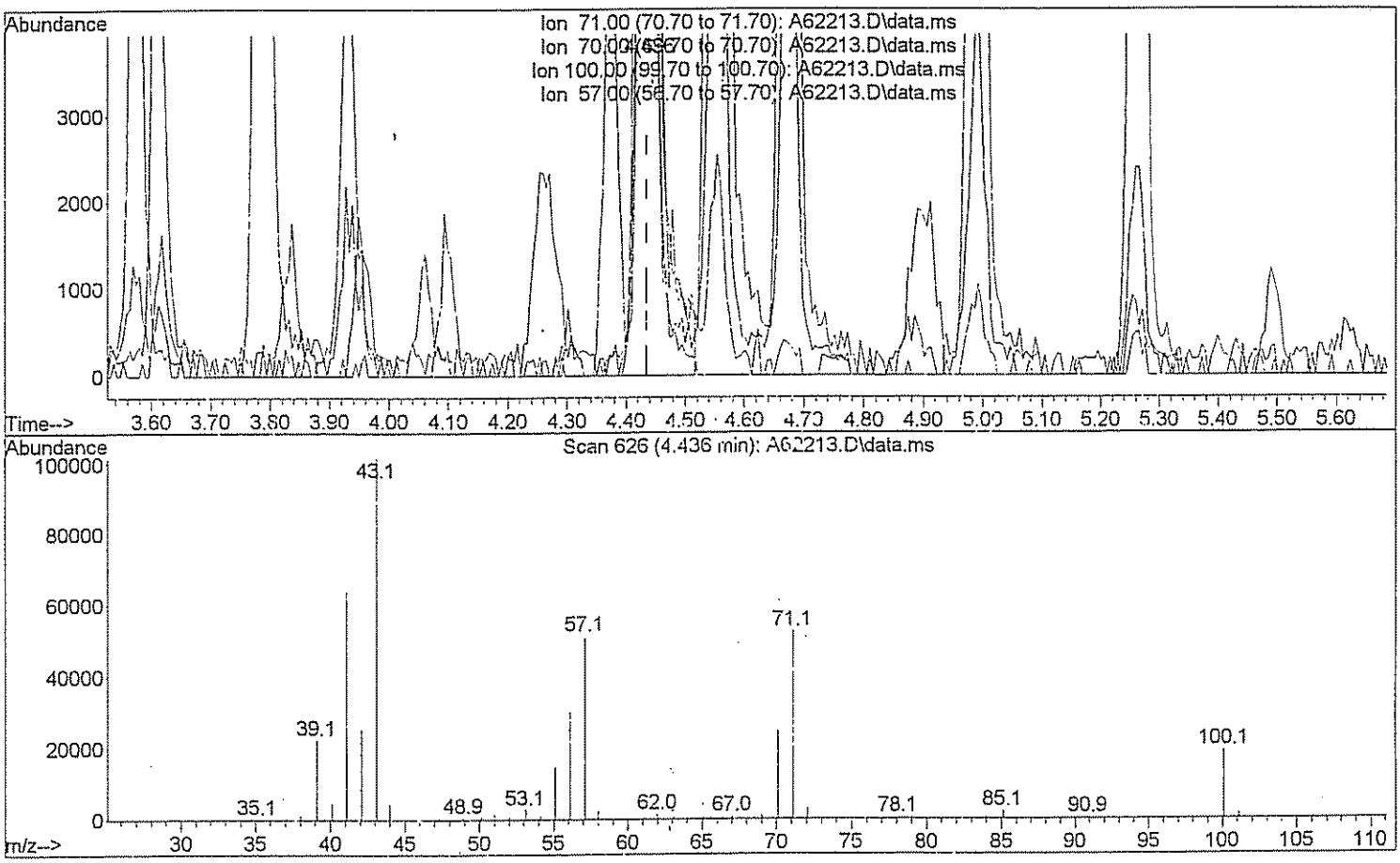
response 3811

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2353.53#
100.00	62.00	0.00#
57.00	40.00	501.02#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(26) n-Heptane (T)

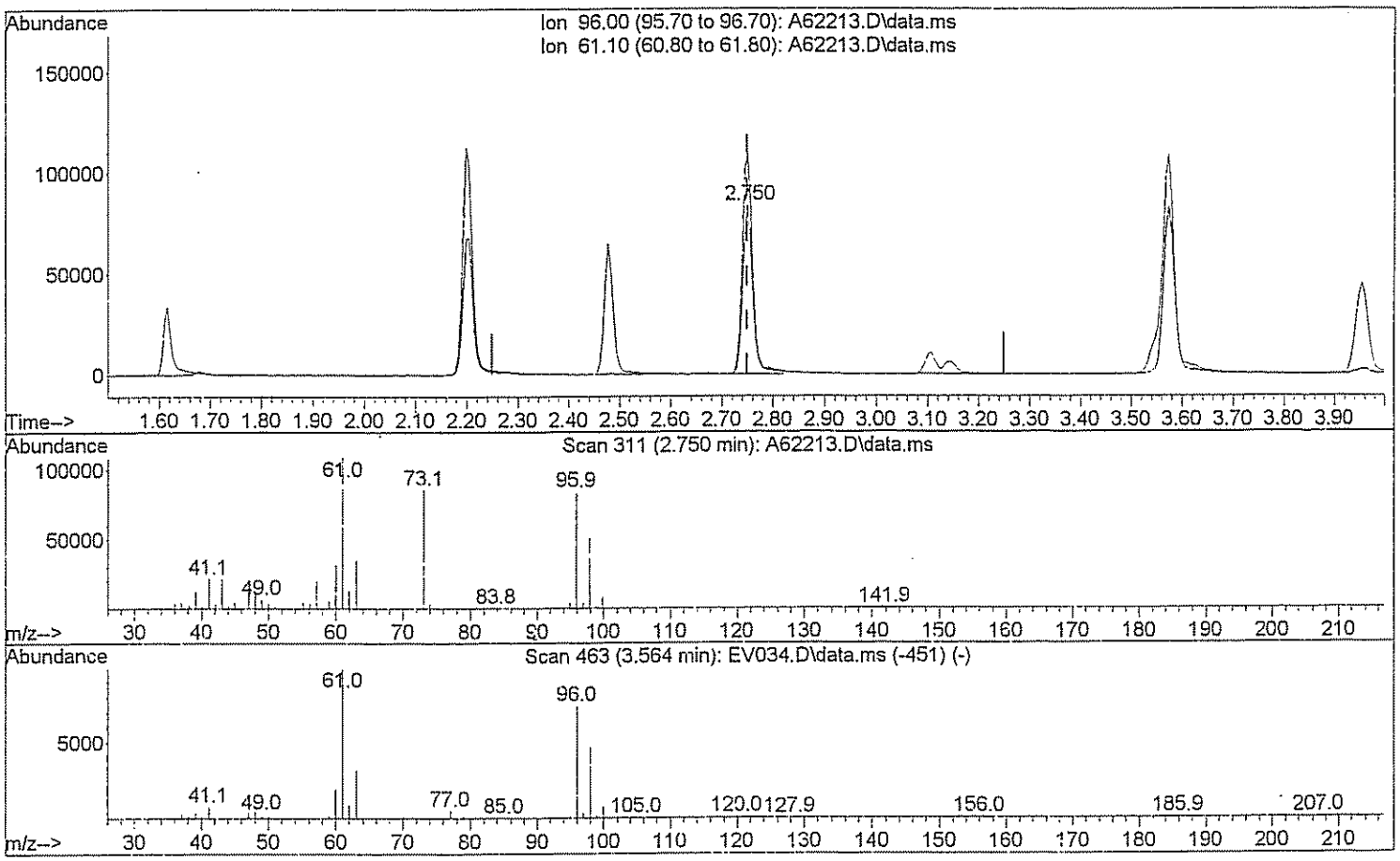
4.436min (0.000) 49.81 ug/L m SN 3/16/09

response 89309

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	100.43#
100.00	62.00	0.00#
57.00	40.00	21.38#

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (0.000) 45.53 ug/L

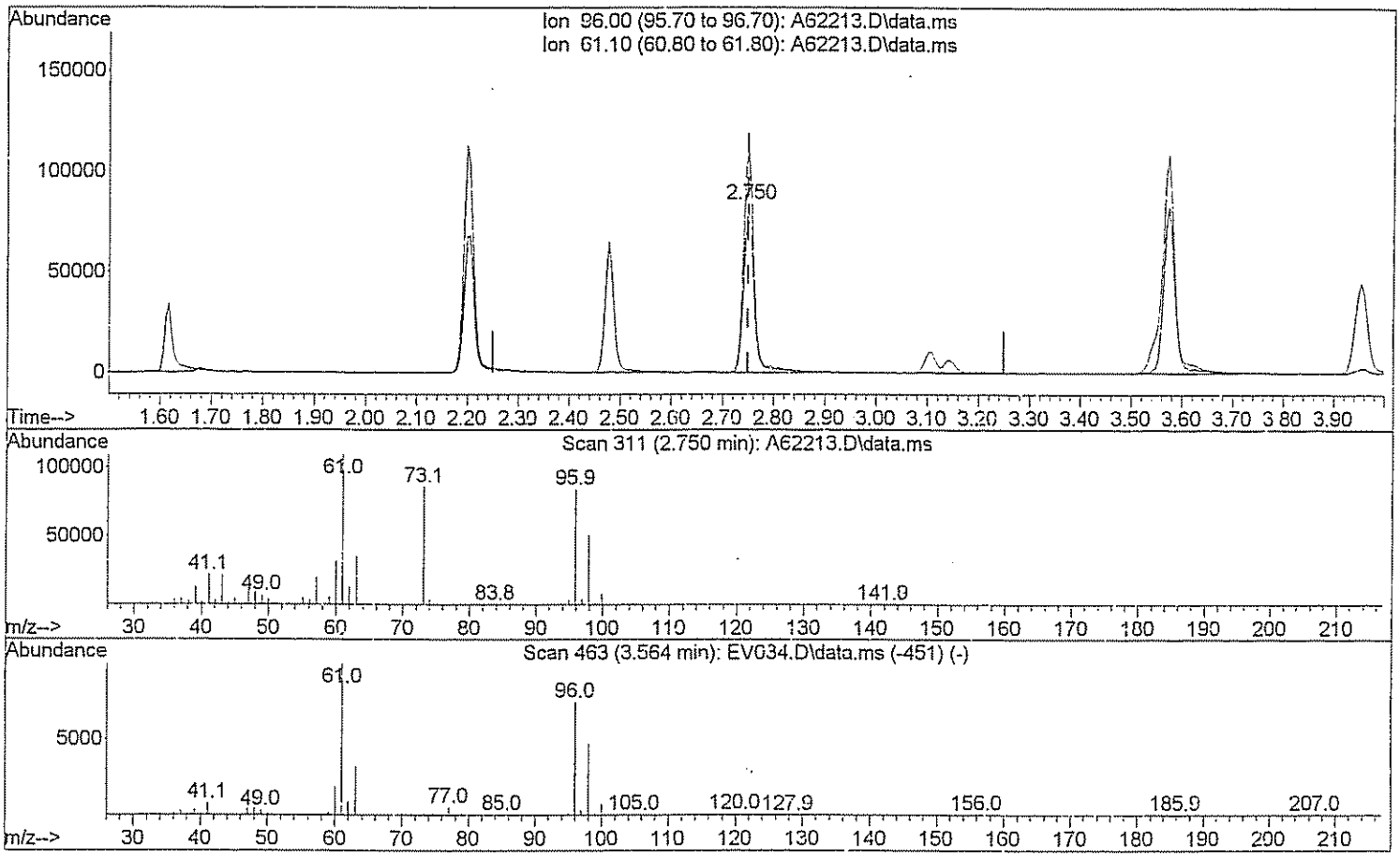
response 114422

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (0.000) 99.75 ug/L m SM 3/16/09

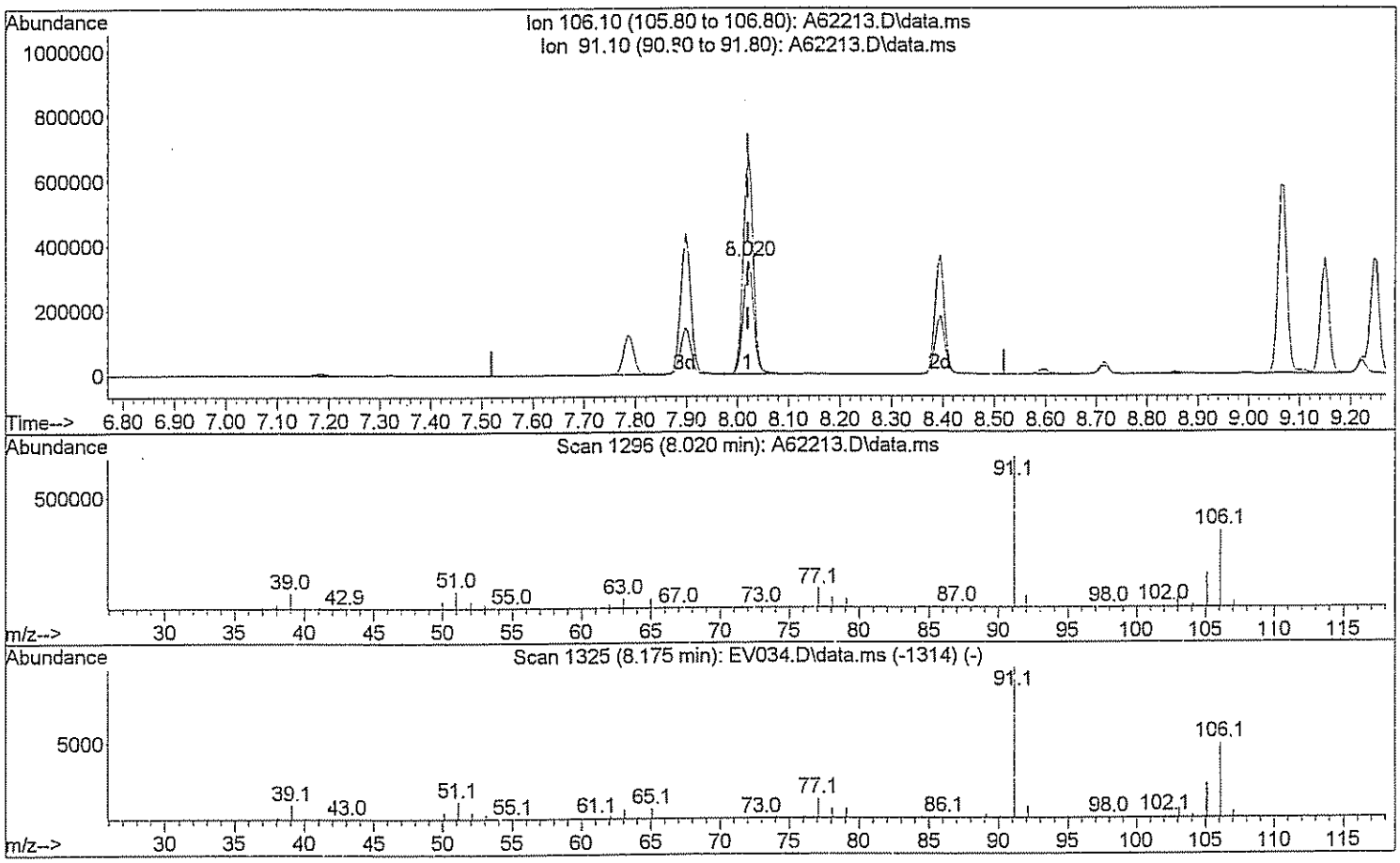
response 250709

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	63.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 100.93 ug/L

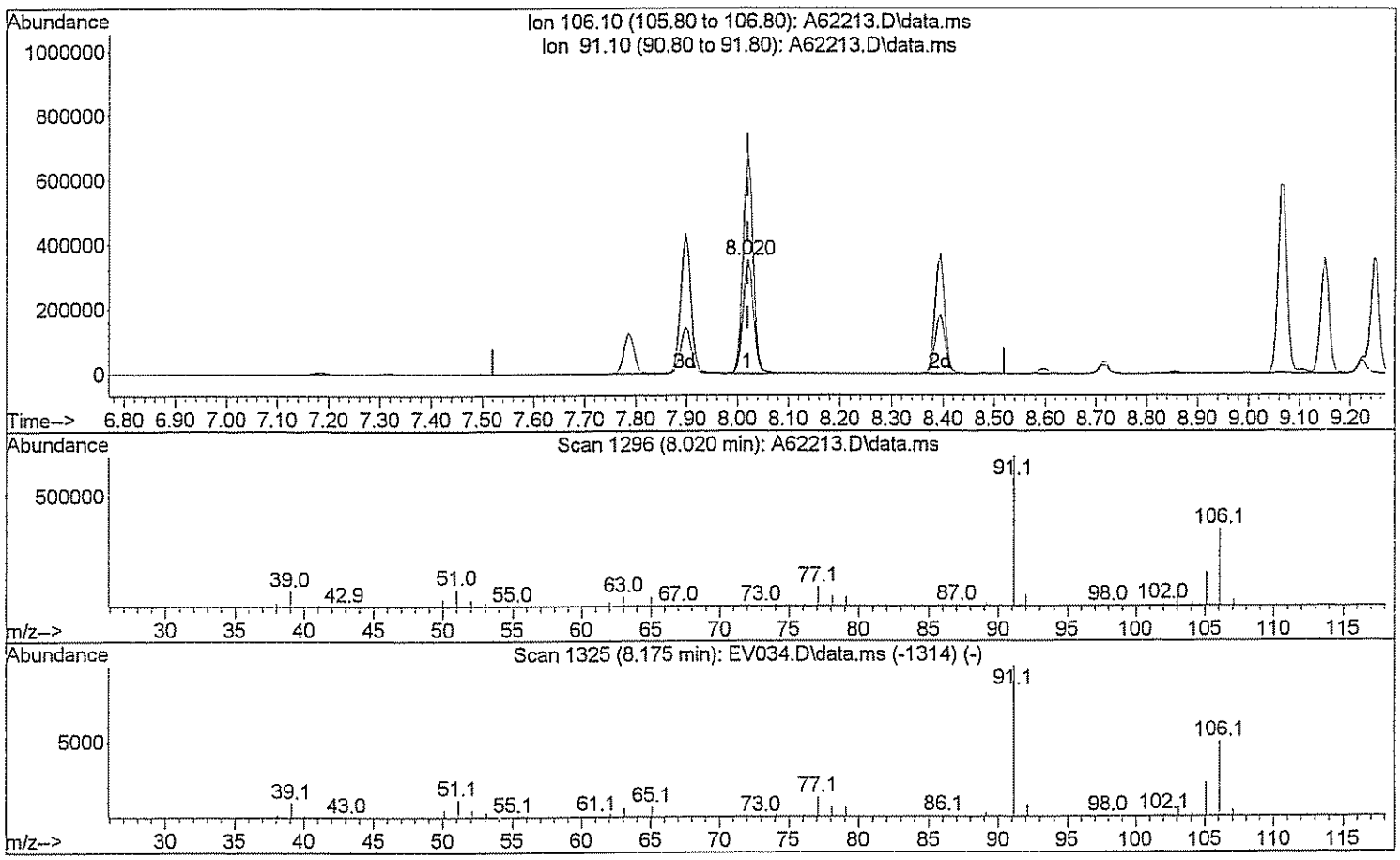
response 496360

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 149.98 ug/L m

response 737592

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.33#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	488113	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	402895	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	382461	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	129184	50.02	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.04%				
54) Toluene-d8	6.142	98	474149	50.80	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 101.60%				
76) 4-Bromofluorobenzene	8.881	95	182324	49.93	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.86%				
92) 1,2-Dichlorobenzene-d4	10.090	152	186080m	52.27	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 104.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	101899	106.98	ug/L		99
3) Chloromethane	1.327	50	155403	109.78	ug/L		99
4) Vinyl chloride	1.392	62	209191	101.65	ug/L		97
5) Bromomethane	1.616	94	111043	145.49	ug/L		87
6) Chloroethane	1.681	64	137679	99.05	ug/L		93
7) Trichlorofluoromethane	1.825	101	300088	106.02	ug/L		98
8) Ethyl Ether	2.044	59	183503	99.21	ug/L		96
9) Freon 113	2.173	101	180697	112.15	ug/L		89
10) Acrolein	2.189	56	170559	487.02	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	410388	1627.41	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	188294	102.49	ug/L		90
13) Iodomethane	2.328	142	241226	271.45	ug/L		98
14) Acetonitrile	2.478	40	1358379	1123.82	ug/L	#	1
15) Methylene chloride	2.590	84	229545	104.74	ug/L		100
16) Trans-1,2-dichloroethene	2.750	96	224781	104.14	ug/L		88
17) Isopropyl ether	3.093	45	872545	102.27	ug/L		100
18) 1,1-Dichloroethane	3.109	63	420716	104.83	ug/L		98
19) Acetone	2.301	43	164150	185.35	ug/L		96
20) Methyl Acetate	4.264	43	66527	26.61	ug/L	#	100
21) MTBE	2.740	73	589661	99.10	ug/L		100
22) Carbon disulfide	2.349	76	627594	105.31	ug/L		100
24) Acrylonitrile	2.836	53	303172	464.89	ug/L		100
25) Chloroprene	3.146	53	388959	112.65	ug/L		91
26) n-Heptane	4.436	71	179679m	106.65	ug/L		
27) 2,2-Dichloropropane	3.553	77	331997	101.97	ug/L	#	74
28) Cis-1,2-dichloroethene	3.580	96	256374	103.77	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	484745m	204.99 ug/L	
30) Propionitrile	3.740	54	307367	899.20 ug/L	100
31) Bromochloromethane	3.783	128	119161	102.97 ug/L	91
32) Tetrahydrofuran	3.794	72	47686	88.07 ug/L #	1
33) Chloroform	3.842	83	435779	111.90 ug/L	97
34) Cyclohexane	3.933	56	385205	110.11 ug/L	94
35) 1,1,1-Trichloroethane	3.960	97	334582	102.84 ug/L	98
36) Carbon tetrachloride	4.061	117	302357	106.77 ug/L	99
37) Methacrylonitrile	3.831	41	1721571	1007.87 ug/L #	20
38) Methylcyclohexane	4.992	83	363723	111.77 ug/L	93
39) Isobutyl Alcohol	4.436	43	336613	2171.62 ug/L	89
42) 2-Butanone	3.617	43	268048	179.66 ug/L	98
43) 1,1-Dichloropropene	4.099	75	303893	101.89 ug/L	98
44) Vinyl Acetate	3.136	43	317561	98.31 ug/L	100
45) Benzene	4.281	78	931840	103.46 ug/L	100
46) 1,2-Dichloroethane	4.377	62	290421m	100.33 ug/L	
47) Trichloroethene	4.885	95	232664	103.80 ug/L	92
48) 1,2-Dichloropropane	5.163	63	245860	102.29 ug/L	97
49) Methyl methacrylate	5.265	69	148916	92.01 ug/L	96
50) Dibromomethane	5.281	93	138697	97.93 ug/L	98
51) Bromodichloromethane	5.431	83	302833	99.87 ug/L	100
52) 2-Chloroethylvinyl ether	5.778	63	184535	138.86 ug/L	97
53) Cis-1,3-dichloropropene	5.918	75	379910	100.47 ug/L	98
55) Toluene	6.217	92	614952	103.11 ug/L	97
56) Trans-1,3-dichloropropene	6.570	75	335781	96.32 ug/L	98
57) Ethyl methacrylate	6.624	69	288818	98.31 ug/L	96
58) 1,1,2-Trichloroethane	6.773	83	175100	98.66 ug/L	97
60) 4-Methyl-2-pentanone	6.099	43	441380	179.51 ug/L	99
61) 2-Hexanone	7.068	43	327869	180.31 ug/L	99
62) Tetrachloroethene	6.795	166	248012	106.43 ug/L	95
63) 1,3-Dichloropropane	6.977	76	337277	97.69 ug/L	92
64) Dibromochloromethane	7.185	129	247971	100.65 ug/L	99
65) 1,2-Dibromoethane	7.319	107	203221	98.47 ug/L	98
66) 1-Chlorohexane	7.790	91	337355	100.86 ug/L	92
67) Chlorobenzene	7.811	112	714834	103.20 ug/L	87
68) 1,1,1,2-Tetrachloroethane	7.908	131	261629	104.19 ug/L	96
69) Ethylbenzene	7.902	91	1209808	104.94 ug/L	99
70) m,p-Xylene	8.025	106	991494	209.58 ug/L	90
71) o-Xylene	8.394	106	476964	103.81 ug/L	93
72) Xylene (Total)	8.025	106	1471853m	314.04 ug/L	
73) Styrene	8.427	104	812237	103.74 ug/L	95
74) Bromoform	8.598	173	152829	94.22 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

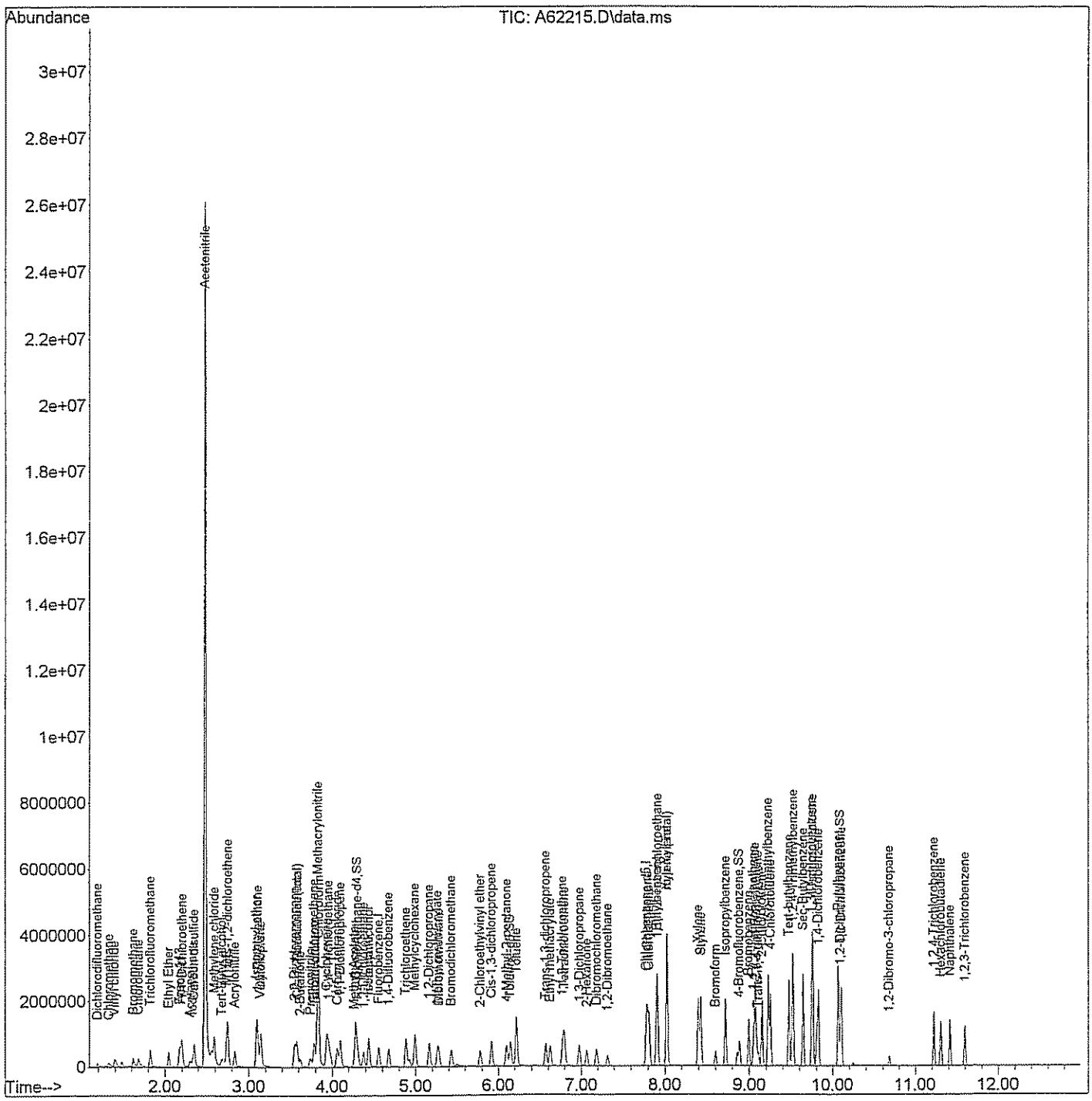
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	1046010	105.24	ug/L		99
77) Bromobenzene	8.994	156	282960	104.01	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.052	83	259312	95.21	ug/L		100
79) 1,2,3-Trichloropropane	9.085	110	75218	93.99	ug/L		99
80) n-Propylbenzene	9.068	91	1417344	103.39	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	56785	68.00	ug/L	#	23
82) 2-Chlorotoluene	9.154	126	296723	101.04	ug/L		89
83) 4-Chlorotoluene	9.250	126	310968	104.02	ug/L		93
84) 1,3,5-Trimethylbenzene	9.224	105	1047309	106.86	ug/L		95
85) Tert-butylbenzene	9.470	119	914746	106.58	ug/L		96
87) 1,2,4-Trimethylbenzene	9.523	105	1084517	107.61	ug/L		94
88) Sec-Butylbenzene	9.641	105	1404375	106.38	ug/L		99
89) 1,3-Dichlorobenzene	9.748	146	614964	108.71	ug/L		99
90) 4-Isopropyltoluene	9.759	119	1255344	108.89	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	612216	106.82	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	578388	109.88	ug/L		99
94) n-Butylbenzene	10.064	91	1147680	107.48	ug/L		96
95) 1,2-Dibromo-3-chloropr...	10.679	75	43888	92.77	ug/L	#	78
96) 1,2,4-Trichlorobenzene	11.224	180	346038	108.41	ug/L		98
97) Hexachlorobutadiene	11.305	225	164609	109.37	ug/L		98
98) Naphthalene	11.412	128	790325	93.73	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	284128	102.51	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

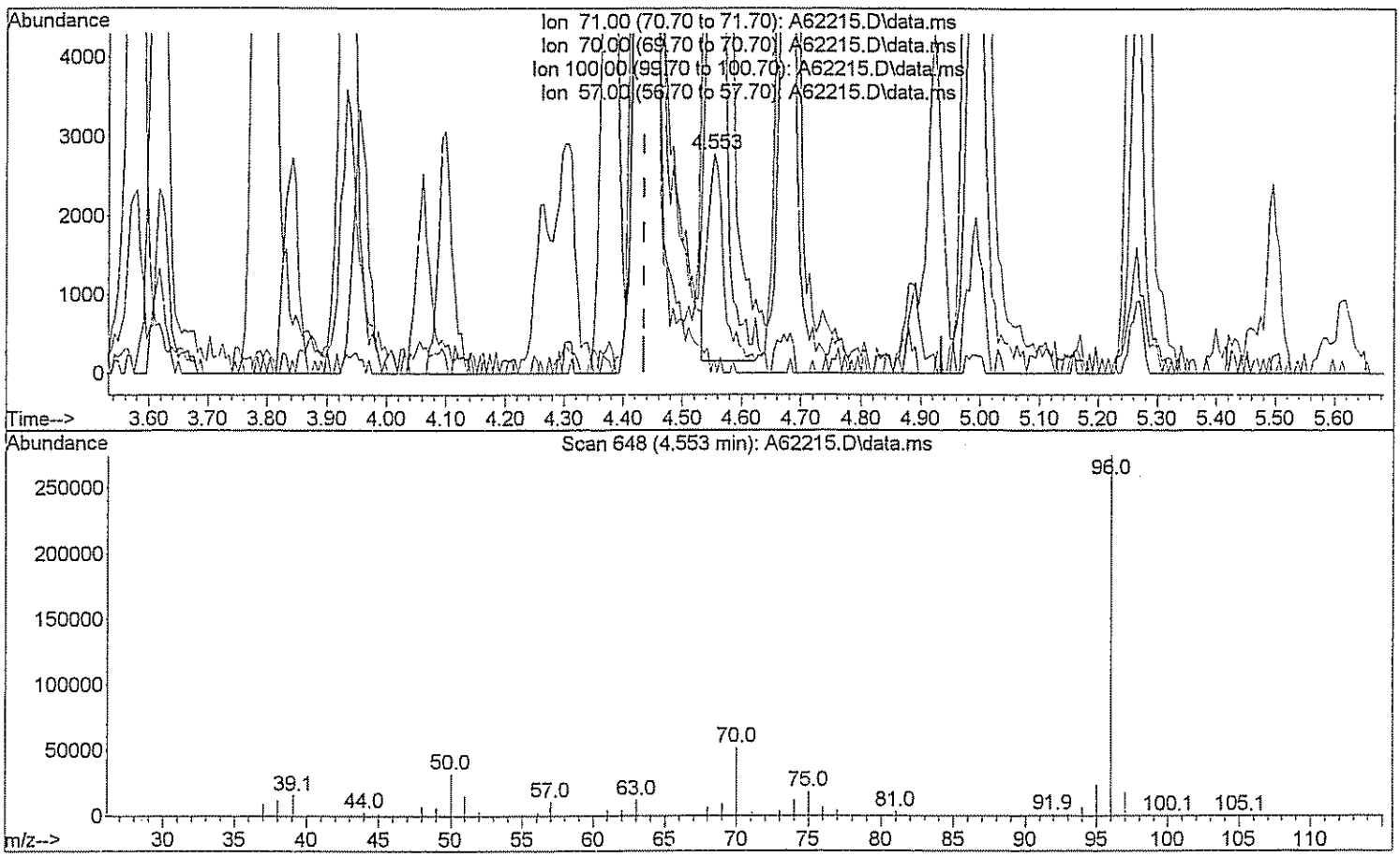
Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.89 ug/L

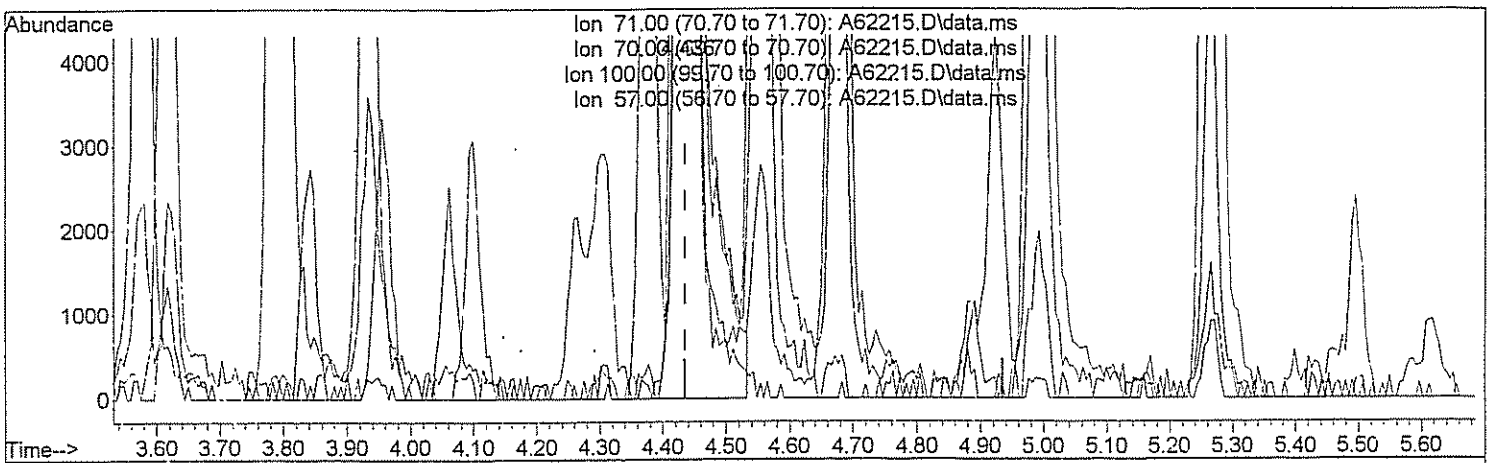
response 4871

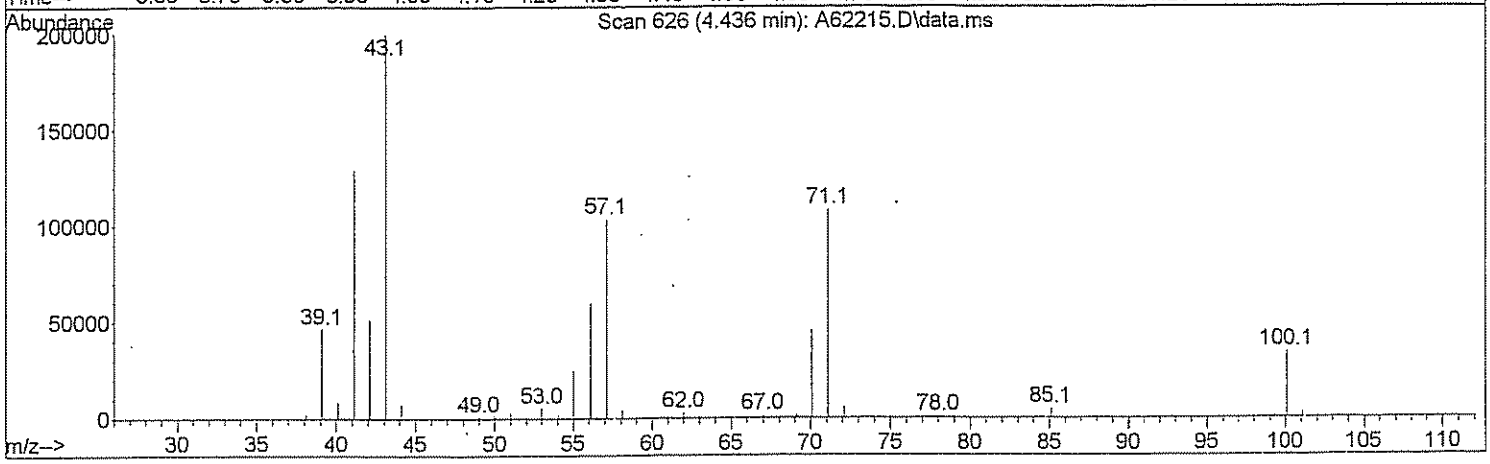
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1781.01#
100.00	62.00	0.00#
57.00	40.00	395.26#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration





TIC: A62215.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 106.65 ug/L m

3/16/09

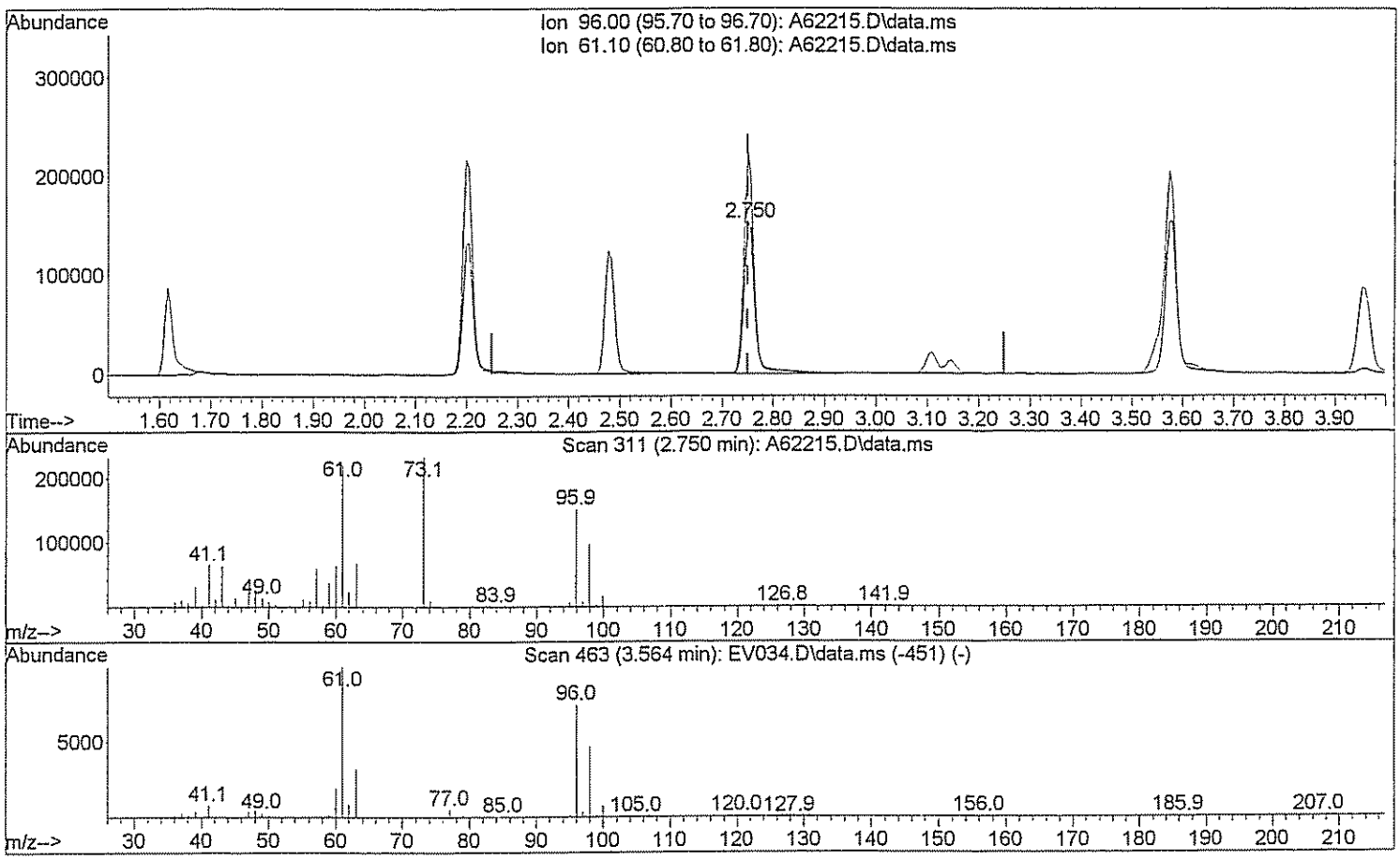
response 179679

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	48.28#
100.00	62.00	0.00#
57.00	40.00	10.72#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (+0.000) 95.05 ug/L

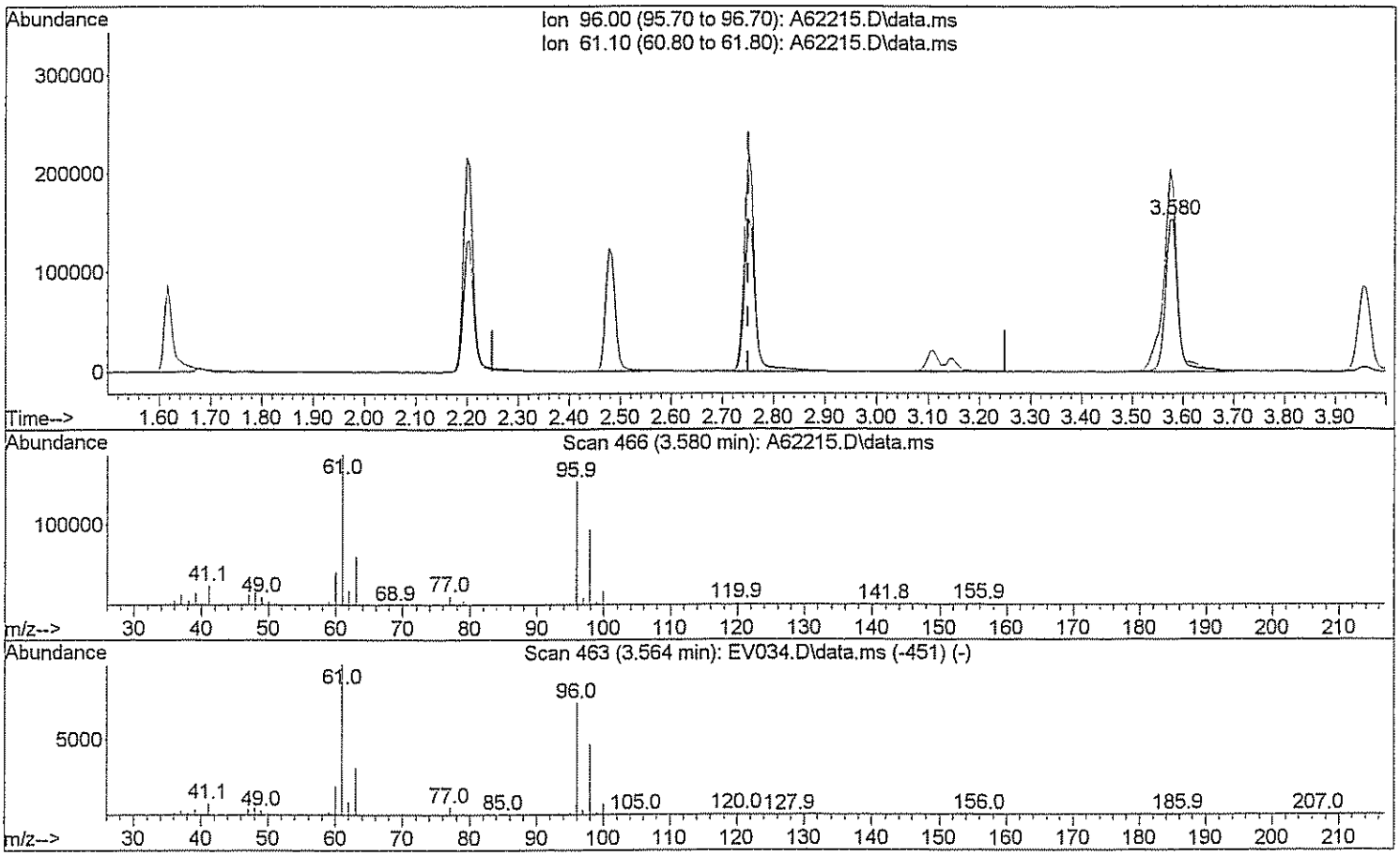
response 224781

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.829) 204.99 ug/L m DW3/16/09

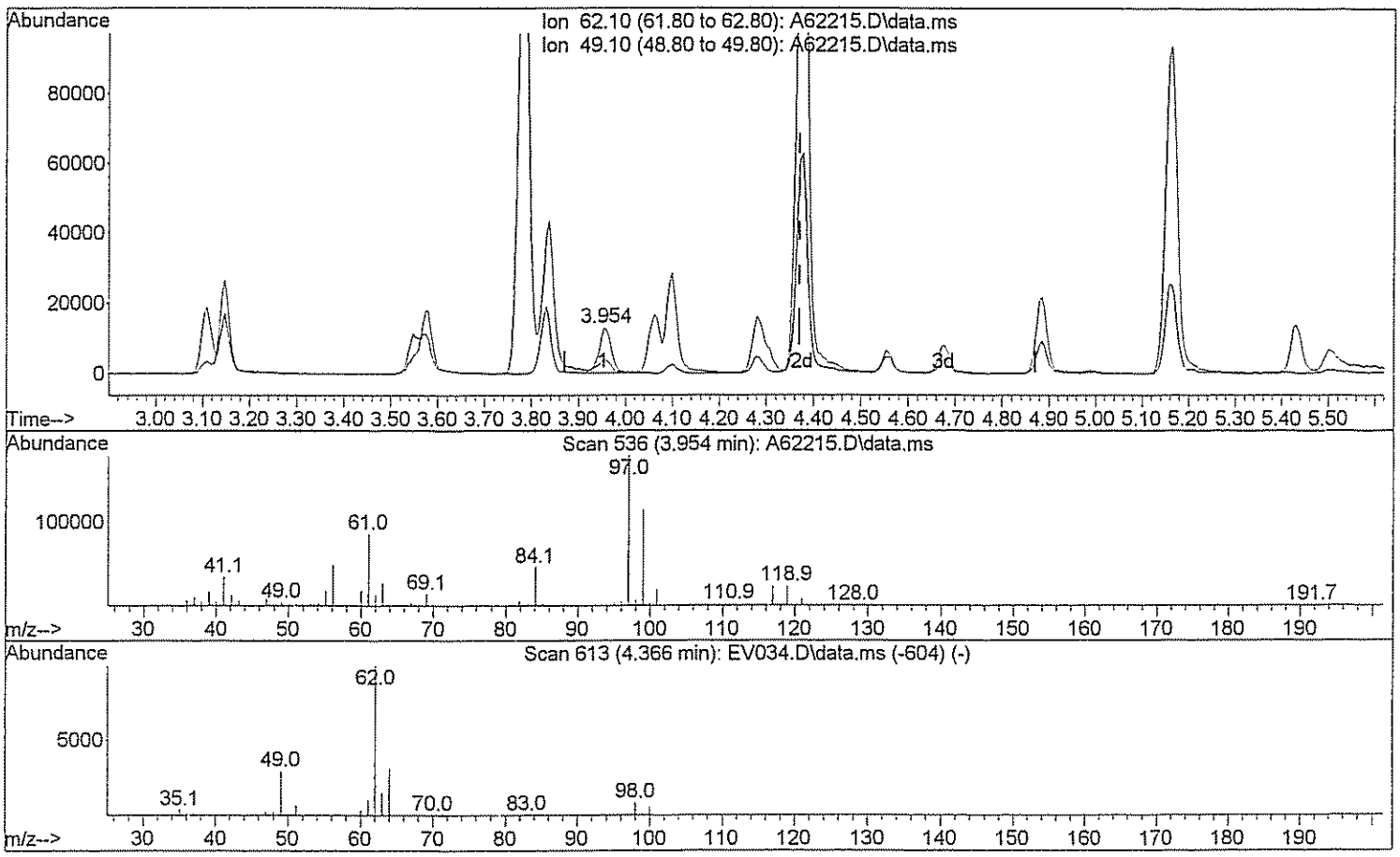
response 484745

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	64.83#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(46) 1,2-Dichloroethane

3.954min (-0.417) 7.81 ug/L

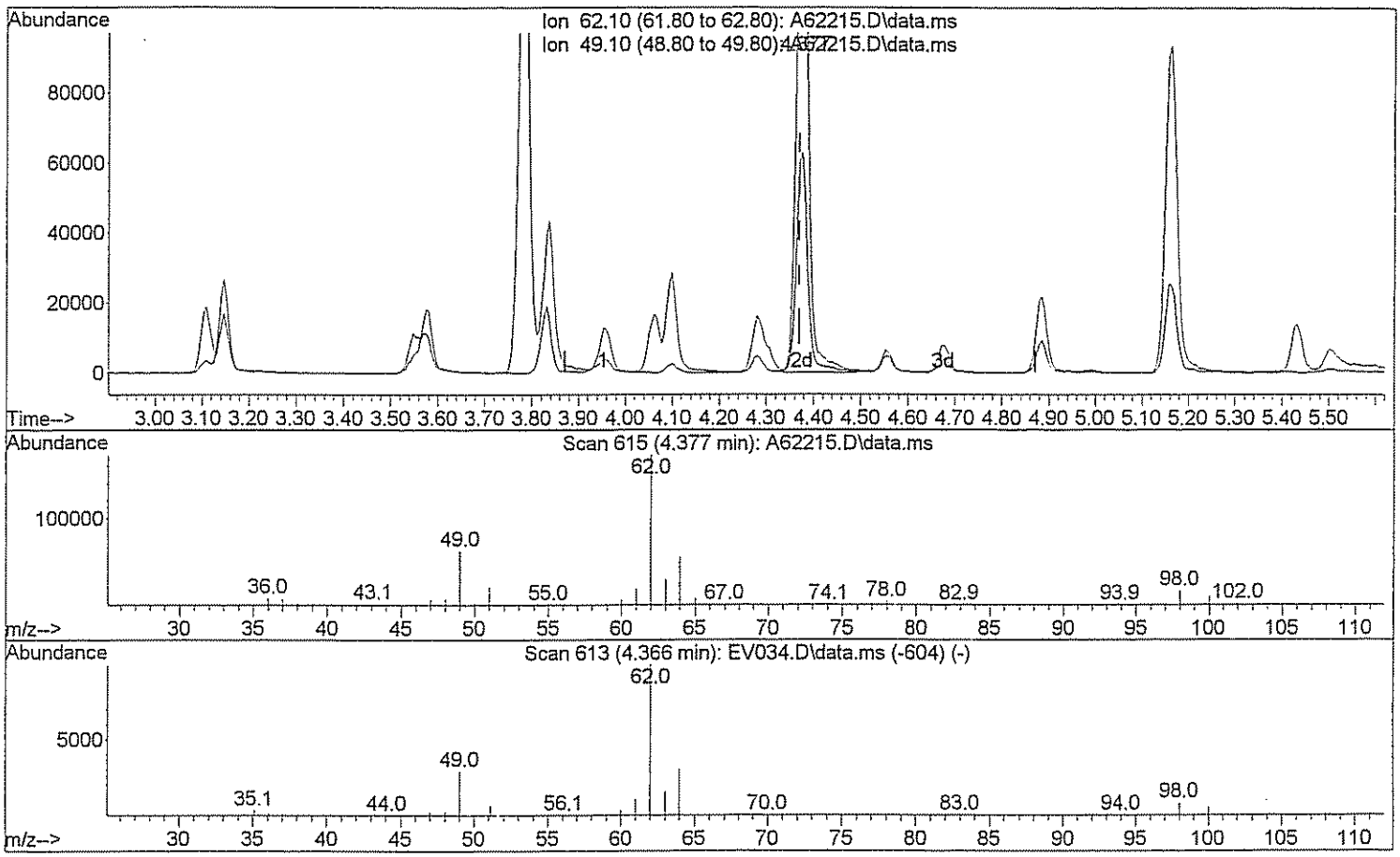
response 22614

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	33.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(46) 1,2-Dichloroethane

4.377min (+0.005) 100.33 ug/L m DW 3/16/09

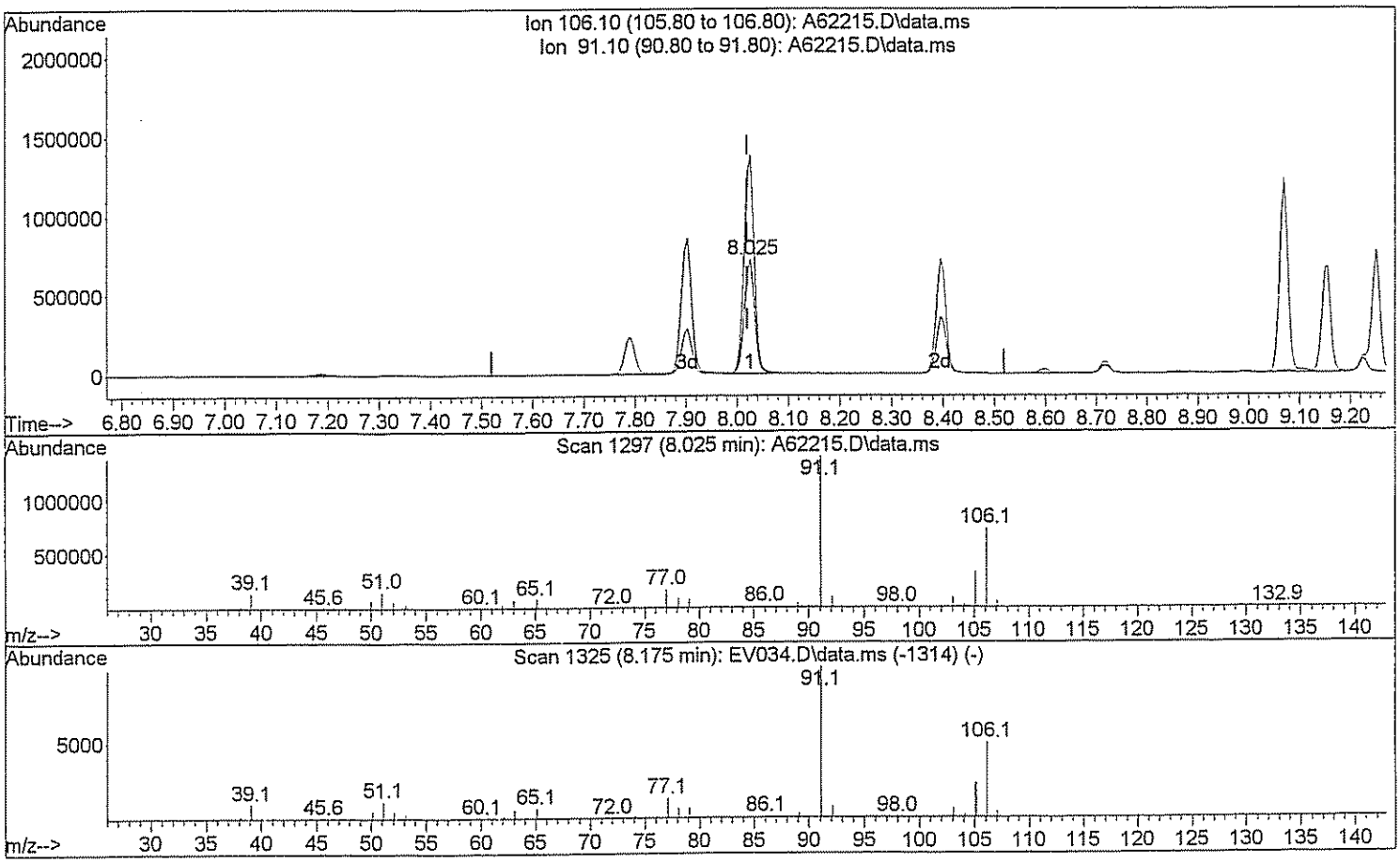
response 290421

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(72) Xylene (Total)

8.025min (+0.005) 211.55 ug/L

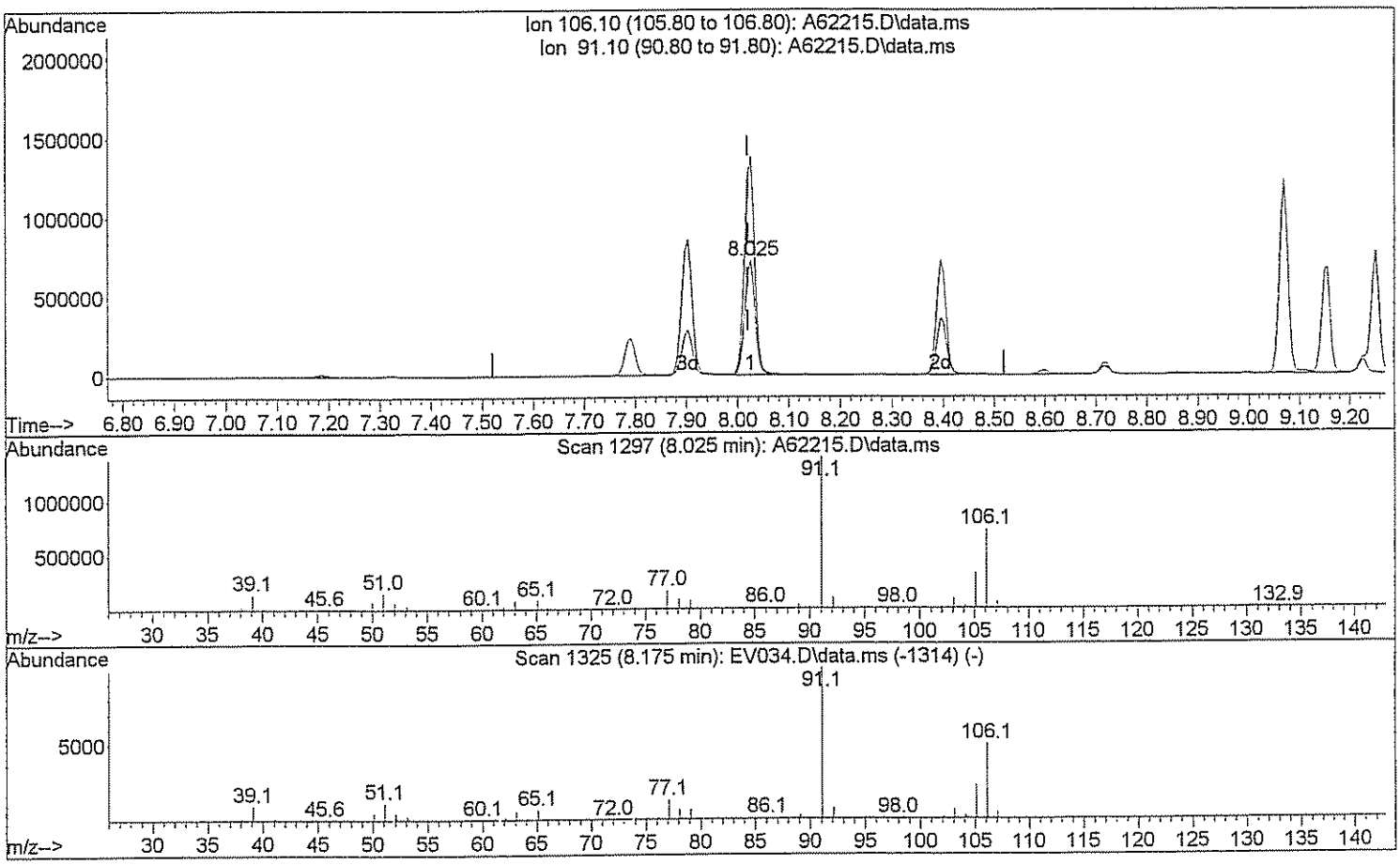
response 991494

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(72) Xylene (Total)

8.025min (+0.005) 314.04 ug/L m Am 3/16/09

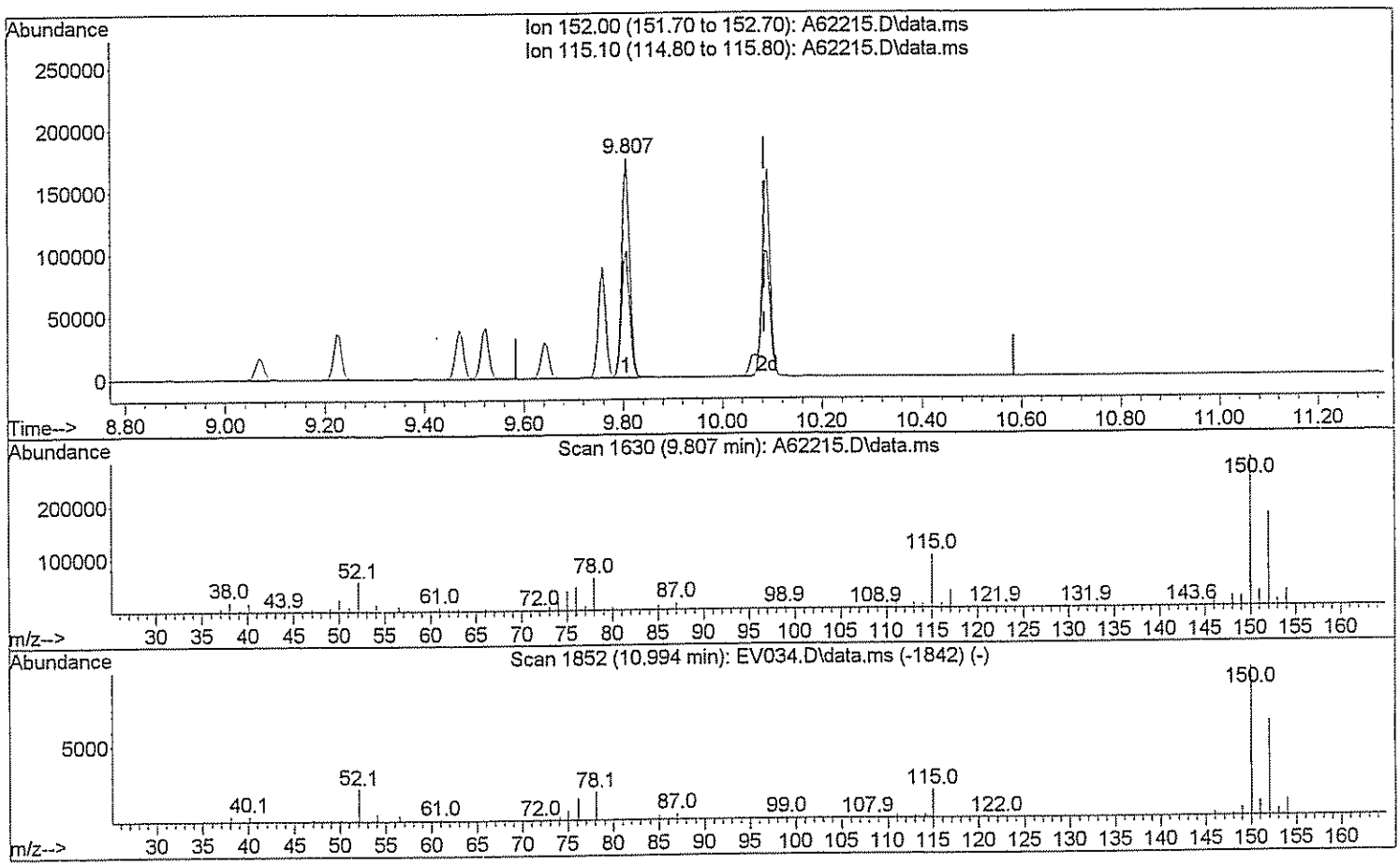
response 1471853

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	130.22#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.278) 55.06 ug/L

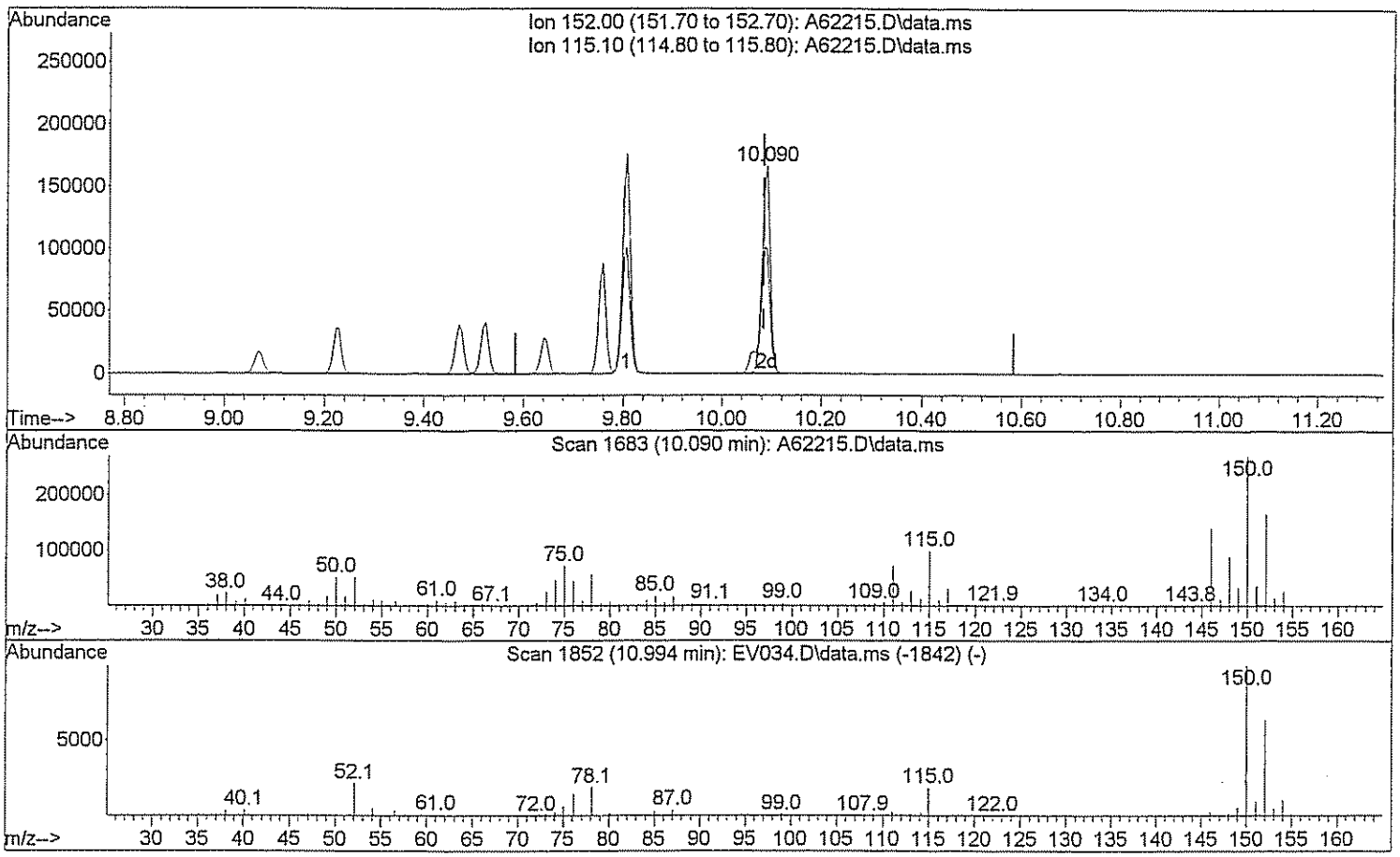
response 196008

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	58.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.005) 52.27 ug/L m

response 186080

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	61.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	451792	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	368065	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.785	117	369201	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	127289	53.24	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.48%				
54) Toluene-d8	6.148	98	448303	52.16	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.32%				
76) 4-Bromofluorobenzene	8.887	95	171713	48.75	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.50%				
92) 1,2-Dichlorobenzene-d4	10.090	152	179334m	51.02	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.04%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	163283	185.20	ug/L		99
3) Chloromethane	1.328	50	359762	261.78	ug/L		94
4) Vinyl chloride	1.392	62	387193	201.61	ug/L		97
5) Bromomethane	1.611	94	202436	233.46	ug/L		92
6) Chloroethane	1.675	64	284270	222.01	ug/L		99
7) Trichlorofluoromethane	1.809	101	811281	300.62	ug/L		99
8) Ethyl Ether	2.044	59	371482	217.85	ug/L		98
9) Freon 113	2.162	101	297997	199.83	ug/L		93
10) Acrolein	2.194	56	364103	1138.03	ug/L	#	65
11) Tert-Butyl alcohol	2.702	59	300740	1420.82	ug/L	#	47
12) 1,1-Dichloroethene	2.194	96	365174	212.11	ug/L		90
13) Iodomethane	2.323	142	290902	190.43	ug/L		96
14) Acetonitrile	2.472	40	2492691	2098.16	ug/L	#	1
15) Methylene chloride	2.585	84	439869	211.83	ug/L		98
16) Trans-1,2-dichloroethene	2.745	96	440274	215.90	ug/L		88
17) Isopropyl ether	3.098	45	1680957	210.47	ug/L		97
18) 1,1-Dichloroethane	3.104	63	800890	210.51	ug/L		100
19) Acetone	2.312	43	312363	395.54	ug/L		97
20) Methyl Acetate	4.270	43	87097	59.46	ug/L	#	100
21) MTBE	2.745	73	1194298	217.83	ug/L		100
22) Carbon disulfide	2.339	76	1152952	203.62	ug/L		100
24) Acrylonitrile	2.836	53	640901	1100.42	ug/L		99
25) Chloroprene	3.141	53	692315	203.74	ug/L		91
26) n-Heptane	4.436	71	299522m	185.89	ug/L		
27) 2,2-Dichloropropane	3.548	77	610873	200.73	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	462197	198.38	ug/L		90

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.745	96	940669m	424.47	ug/L		
30) Propionitrile	3.751	54	646001	2150.18	ug/L		98
31) Bromochloromethane	3.783	128	232724	214.09	ug/L		93
32) Tetrahydrofuran	3.794	72	106842	226.71	ug/L	#	1
33) Chloroform	3.842	83	899112	235.43	ug/L		98
34) Cyclohexane	3.933	56	656554	193.01	ug/L		93
35) 1,1,1-Trichloroethane	3.960	97	656121	214.83	ug/L		99
36) Carbon tetrachloride	4.061	117	564740	208.40	ug/L		100
37) Methacrylonitrile	3.842	41	3847918	2424.27	ug/L	#	26
38) Methylcyclohexane	4.992	83	574234	180.05	ug/L		99
39) Isobutyl Alcohol	4.436	43	542821	3783.48	ug/L		91
42) 2-Butanone	3.623	43	524768	405.64	ug/L		100
43) 1,1-Dichloropropene	4.099	75	560845	203.91	ug/L		98
44) Vinyl Acetate	3.136	43	568872	194.42	ug/L		97
45) Benzene	4.281	78	1755663	209.75	ug/L		100
46) 1,2-Dichloroethane	4.377	62	553129	208.82	ug/L	#	86
47) Trichloroethene	4.885	95	424939	203.65	ug/L		92
48) 1,2-Dichloropropane	5.163	63	448805	202.08	ug/L		97
49) Methyl methacrylate	5.270	69	297322	209.45	ug/L		89
50) Dibromomethane	5.281	93	270802	211.48	ug/L		98
51) Bromodichloromethane	5.431	83	566453	204.62	ug/L		100
52) 2-Chloroethylvinyl ether	5.784	63	624995	764.27	ug/L		98
53) Cis-1,3-dichloropropene	5.918	75	722742	208.73	ug/L		99
55) Toluene	6.217	92	1188416	214.78	ug/L		98
56) Trans-1,3-dichloropropene	6.576	75	669322	214.11	ug/L		97
57) Ethyl methacrylate	6.629	69	567116	213.10	ug/L		95
58) 1,1,2-Trichloroethane	6.779	83	344109	213.67	ug/L		97
60) 4-Methyl-2-pentanone	6.105	43	884809	392.91	ug/L		97
61) 2-Hexanone	7.073	43	650280	389.64	ug/L		98
62) Tetrachloroethene	6.795	166	489859	210.98	ug/L		96
63) 1,3-Dichloropropane	6.977	76	661242	200.72	ug/L		92
64) Dibromochloromethane	7.185	129	493255	206.73	ug/L		98
65) 1,2-Dibromoethane	7.319	107	399950	202.30	ug/L		98
66) 1-Chlorohexane	7.790	91	644735	198.83	ug/L		92
67) Chlorobenzene	7.811	112	1366383	201.13	ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.913	131	522187	211.01	ug/L		99
69) Ethylbenzene	7.902	91	2372752	208.07	ug/L		99
70) m,p-Xylene	8.025	106	2011769	430.21	ug/L		92
71) o-Xylene	8.400	106	914944	202.43	ug/L		95
72) Xylene (Total)	8.025	106	2931434m	633.11	ug/L		
73) Styrene	8.427	104	1565653	203.35	ug/L		95
74) Bromoform	8.603	173	308929	203.17	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

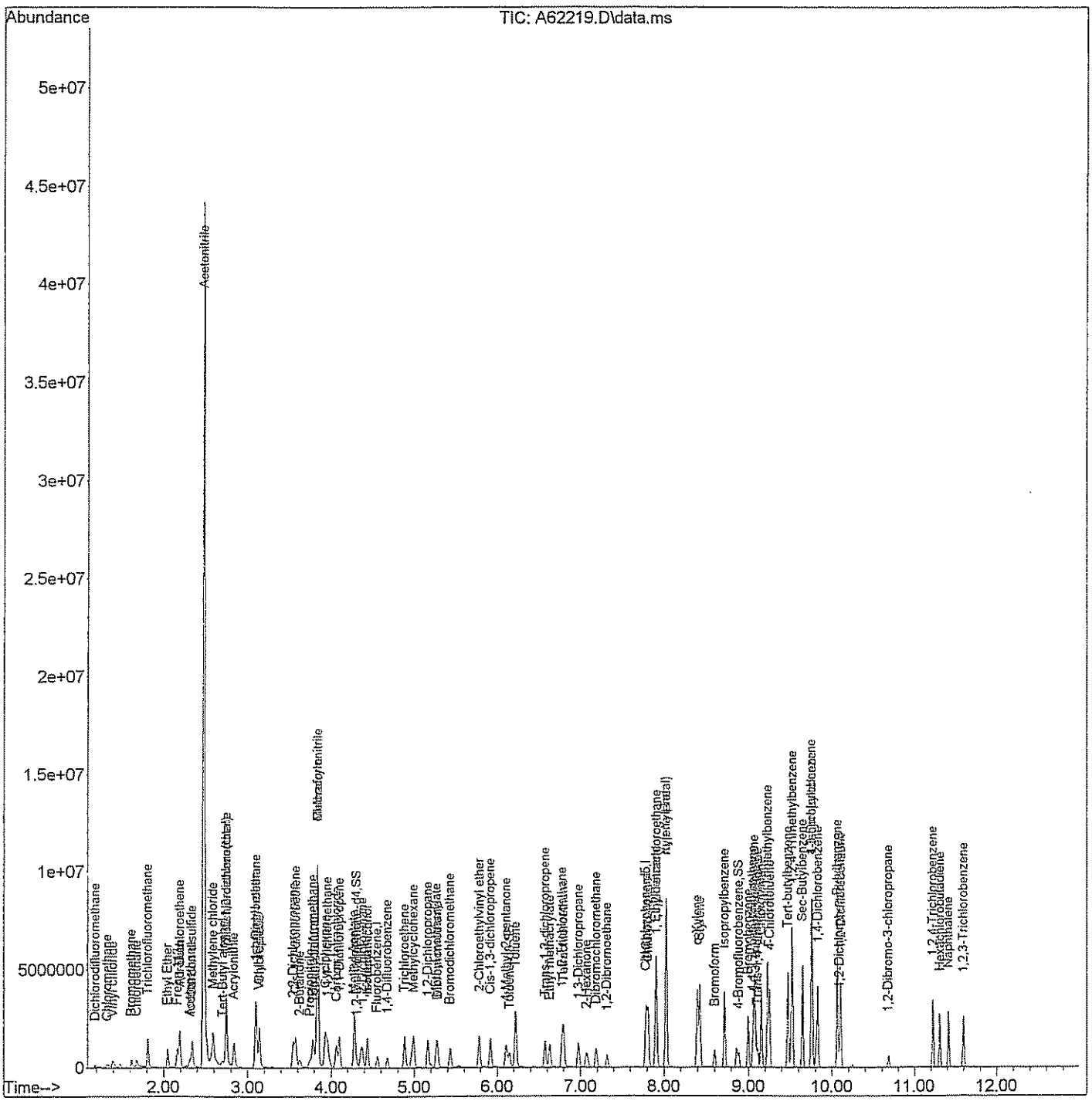
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.721	105	1988139	201.92 ug/L	99
77) Bromobenzene	8.999	156	546933	204.17 ug/L	98
78) 1,1,2,2-Tetrachloroethane	9.053	83	512859	199.85 ug/L	99
79) 1,2,3-Trichloropropane	9.090	110	149522	199.55 ug/L	98
80) n-Propylbenzene	9.069	91	2717913	201.96 ug/L	99
81) Trans-1,4-dichloro-2-b...	9.111	53	130202	192.28 ug/L #	1
82) 2-Chlorotoluene	9.154	126	558332	195.93 ug/L	88
83) 4-Chlorotoluene	9.256	126	595421	202.26 ug/L	94
84) 1,3,5-Trimethylbenzene	9.229	105	2006295	205.03 ug/L	96
85) Tert-butylbenzene	9.470	119	1756037	205.20 ug/L	97
87) 1,2,4-Trimethylbenzene	9.523	105	2156492	213.53 ug/L	94
88) Sec-Butylbenzene	9.646	105	2636165	200.47 ug/L	99
89) 1,3-Dichlorobenzene	9.753	146	1275620	223.84 ug/L	99
90) 4-Isopropyltoluene	9.759	119	2537819	218.34 ug/L	98
91) 1,4-Dichlorobenzene	9.828	146	1203750	210.40 ug/L	98
93) 1,2-Dichlorobenzene	10.106	146	1116199	209.33 ug/L	99
94) n-Butylbenzene	10.064	91	2146674	200.75 ug/L	95
95) 1,2-Dibromo-3-chloropr...	10.679	75	92731	210.67 ug/L	82
96) 1,2,4-Trichlorobenzene	11.224	180	710232	221.19 ug/L	99
97) Hexachlorobutadiene	11.310	225	331241	217.79 ug/L	99
98) Naphthalene	11.412	128	1644380	208.57 ug/L	100
99) 1,2,3-Trichlorobenzene	11.599	180	590974	218.14 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

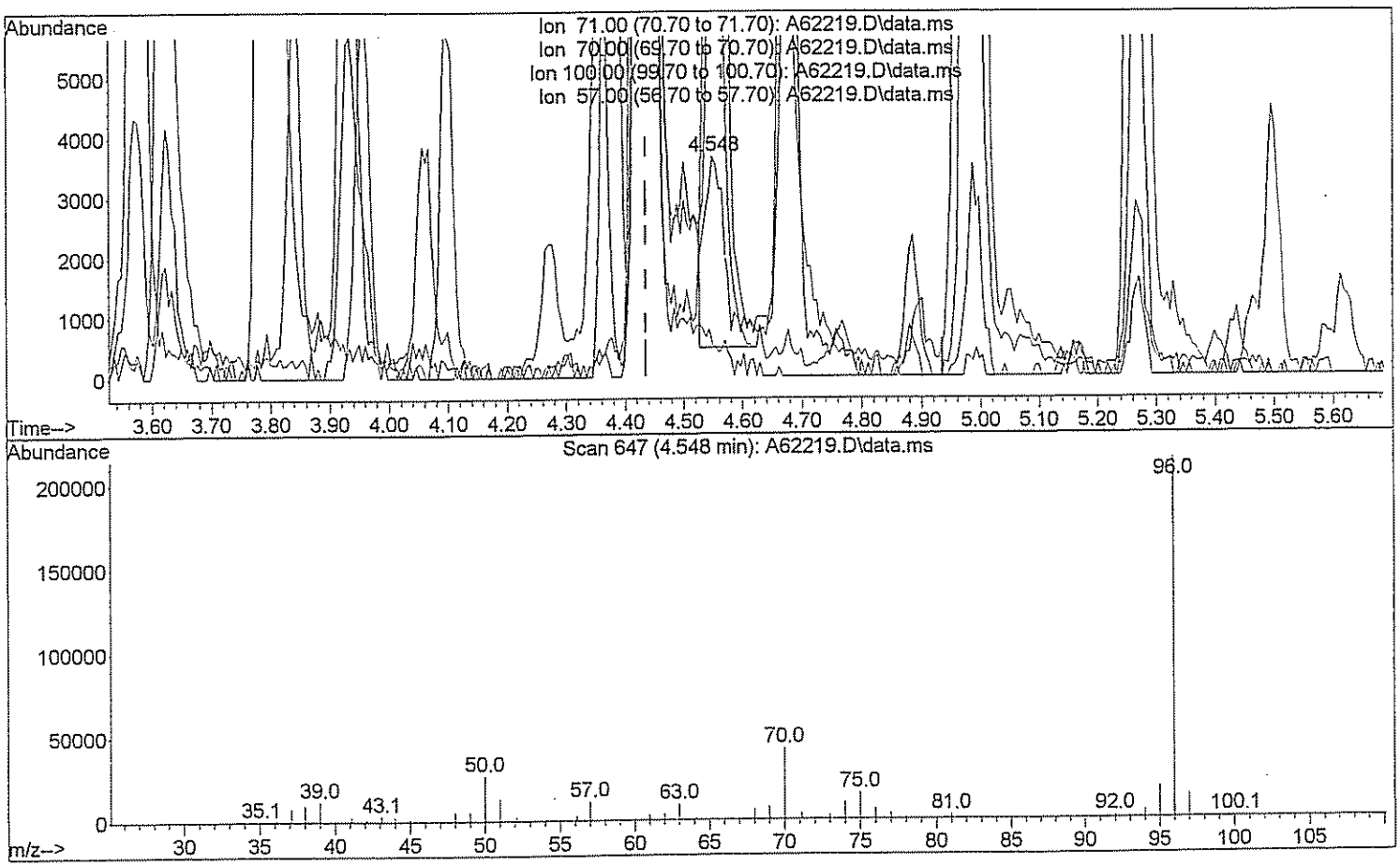
Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(26) n-Heptane (T)

4.548min (+0.112) 4.62 ug/L

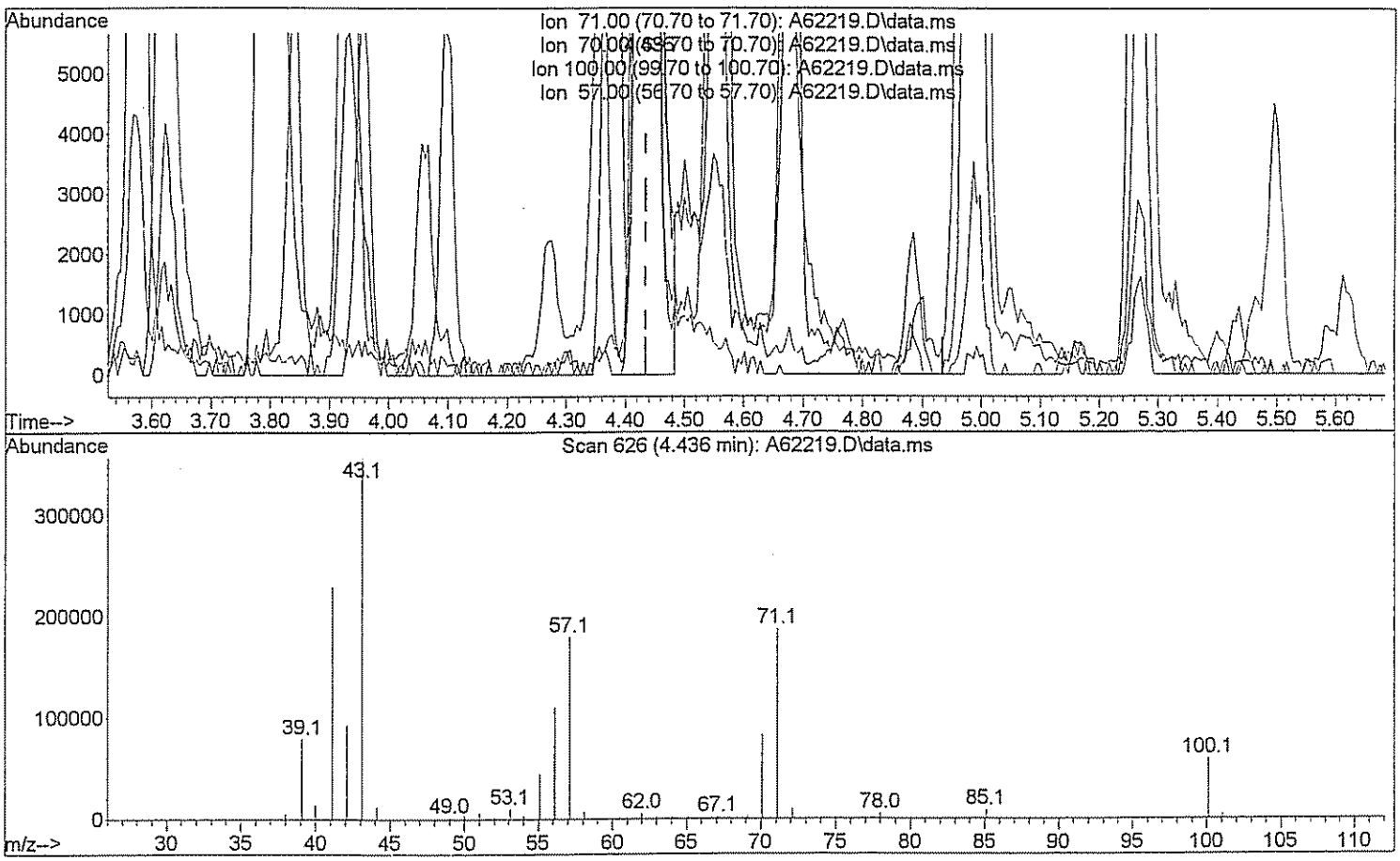
response 7438

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1084.50#
100.00	62.00	0.00#
57.00	40.00	281.08#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 185.89 ug/L m

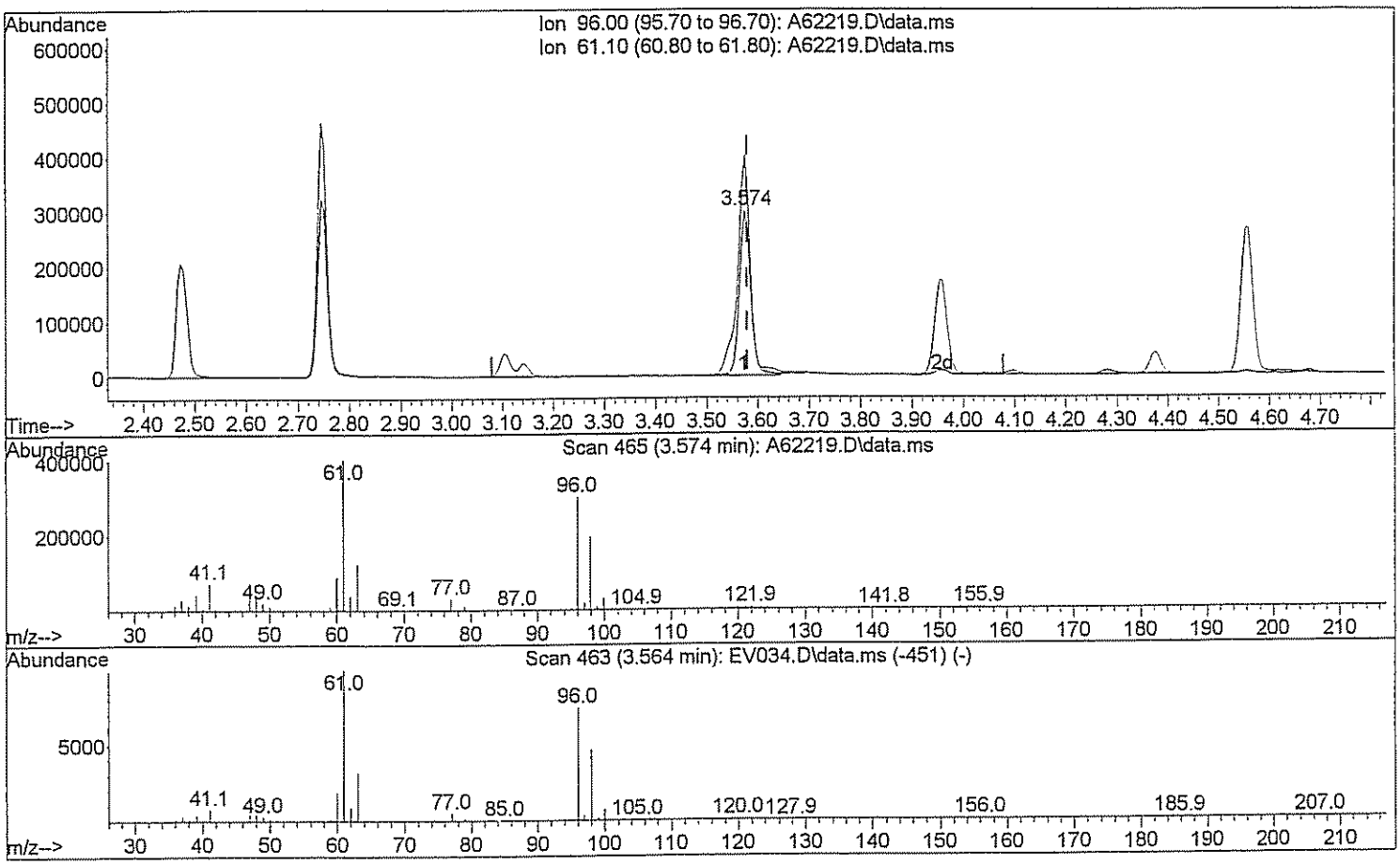
response 299522

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	26.93
100.00	62.00	0.00#
57.00	40.00	6.98#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (-0.005) 208.56 ug/L

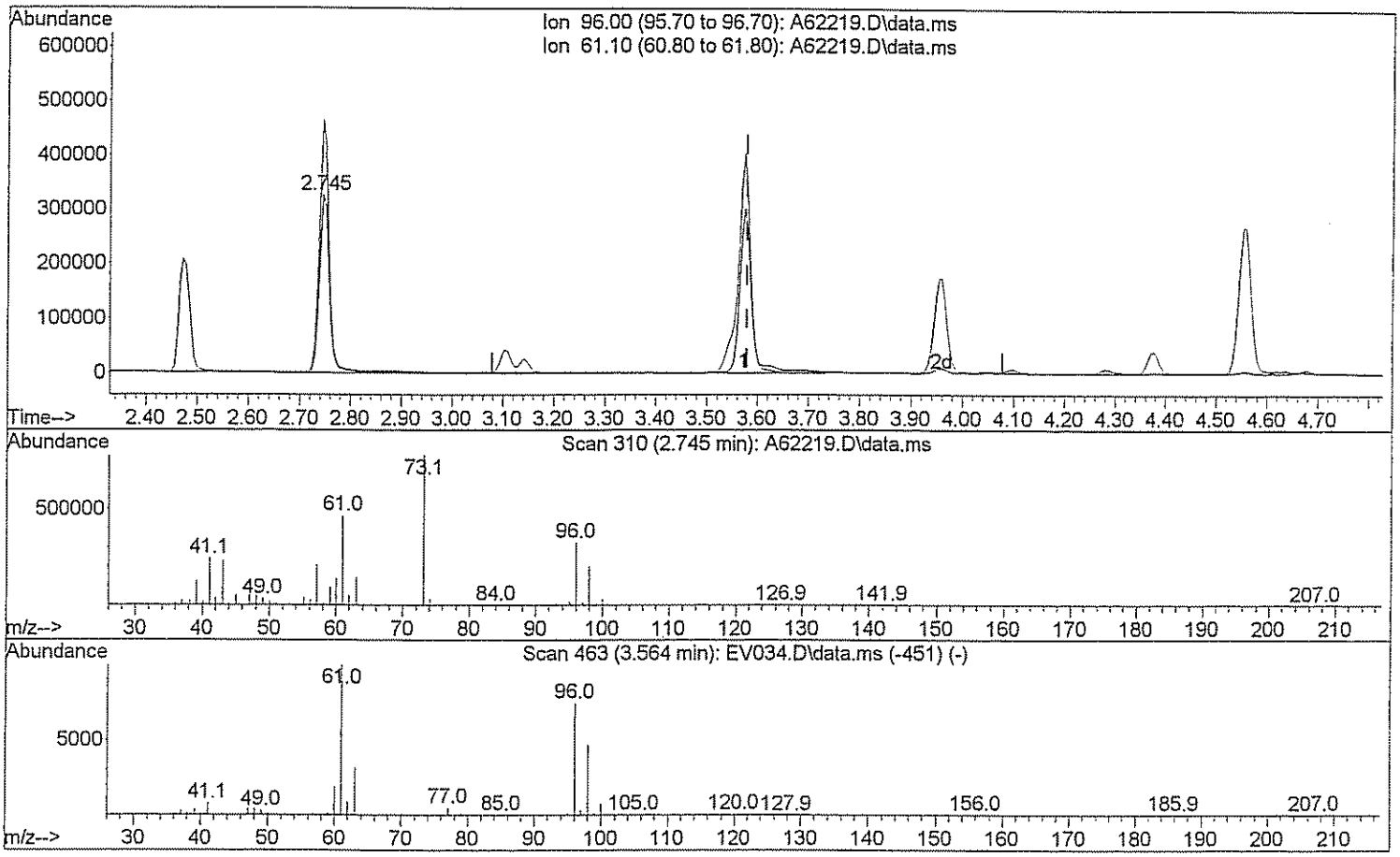
response 462197

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	155.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(29) 1,2-dichloroethene(total)

2.745min (-0.835) 424.47 ug/L m 3/17/09

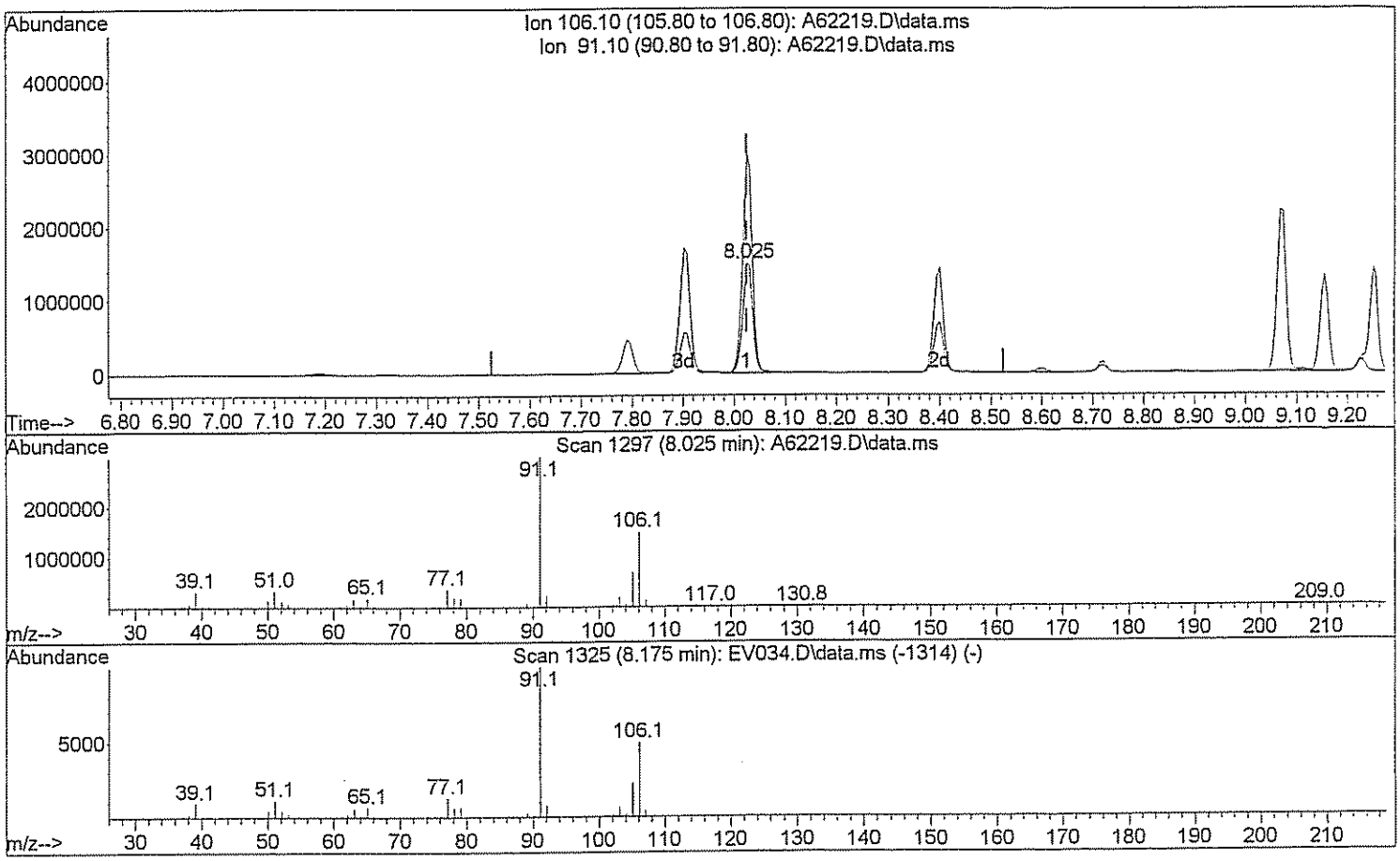
response 940669

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	76.49#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(72) Xylene (Total)

8.025min (+0.000) 434.49 ug/L

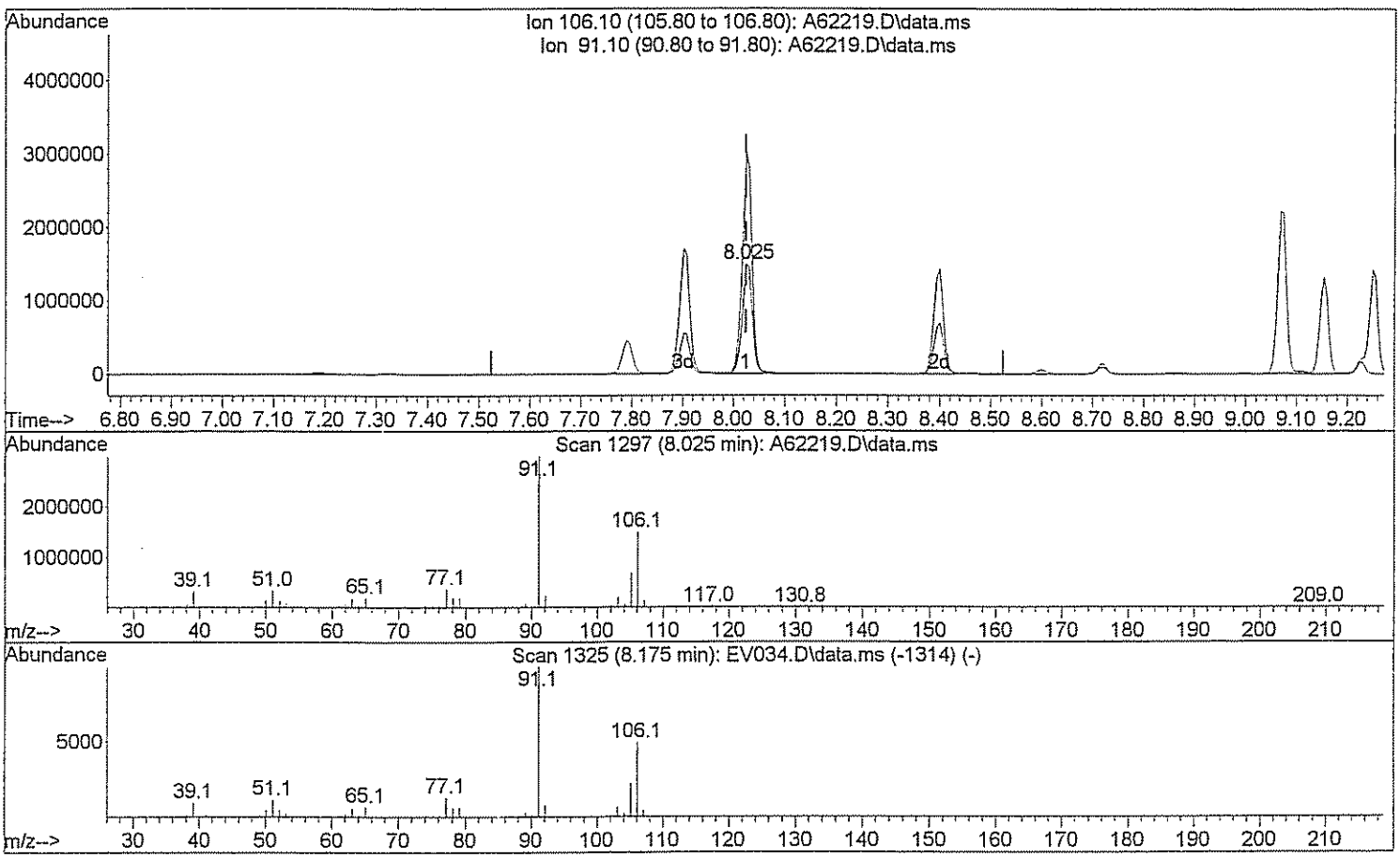
response 2011769

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(72) Xylene (Total)

8.025min (+0.000) 633.11 ug/L m DW 3/17/09

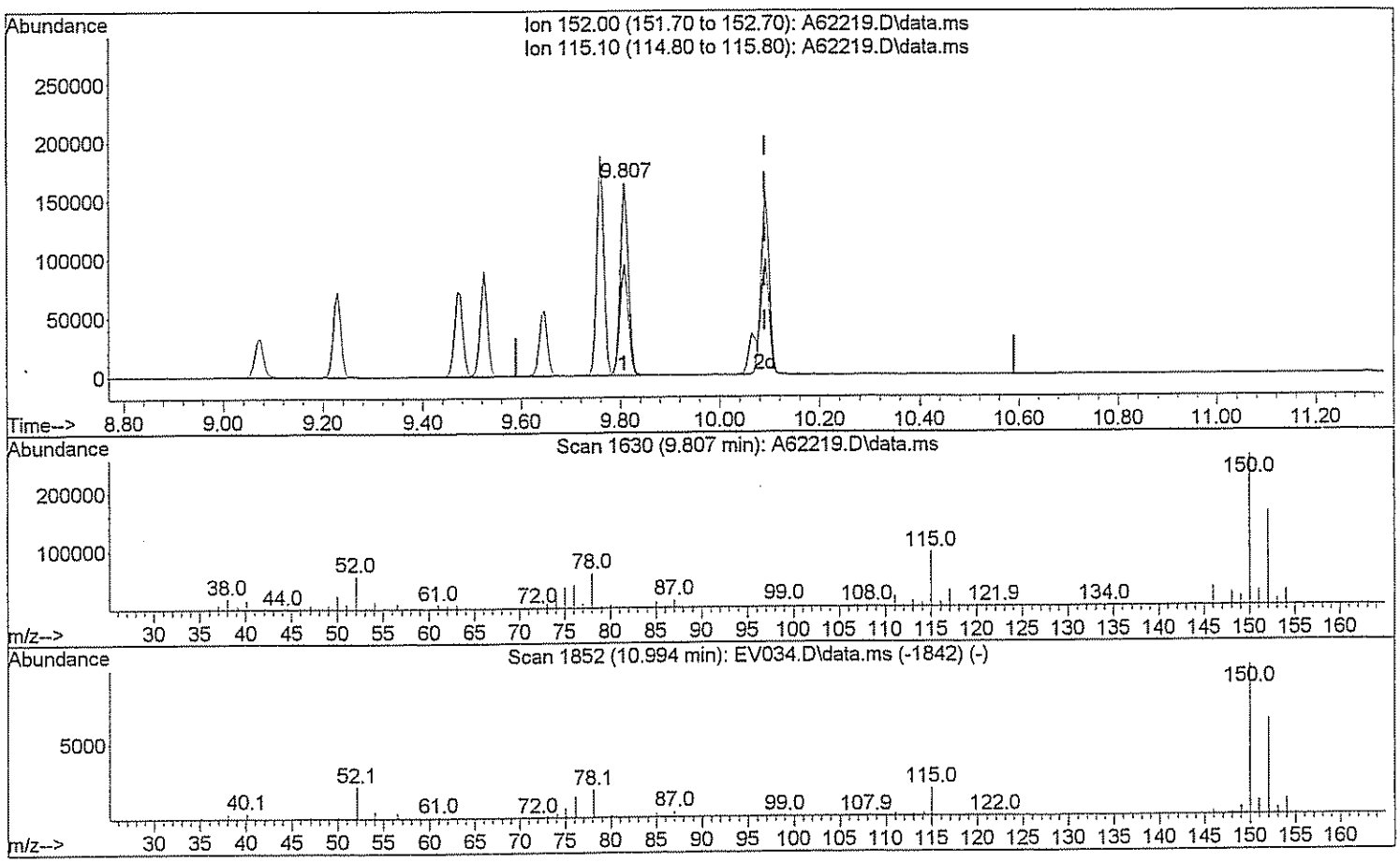
response 2931434

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	134.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.283) 53.05 ug/L

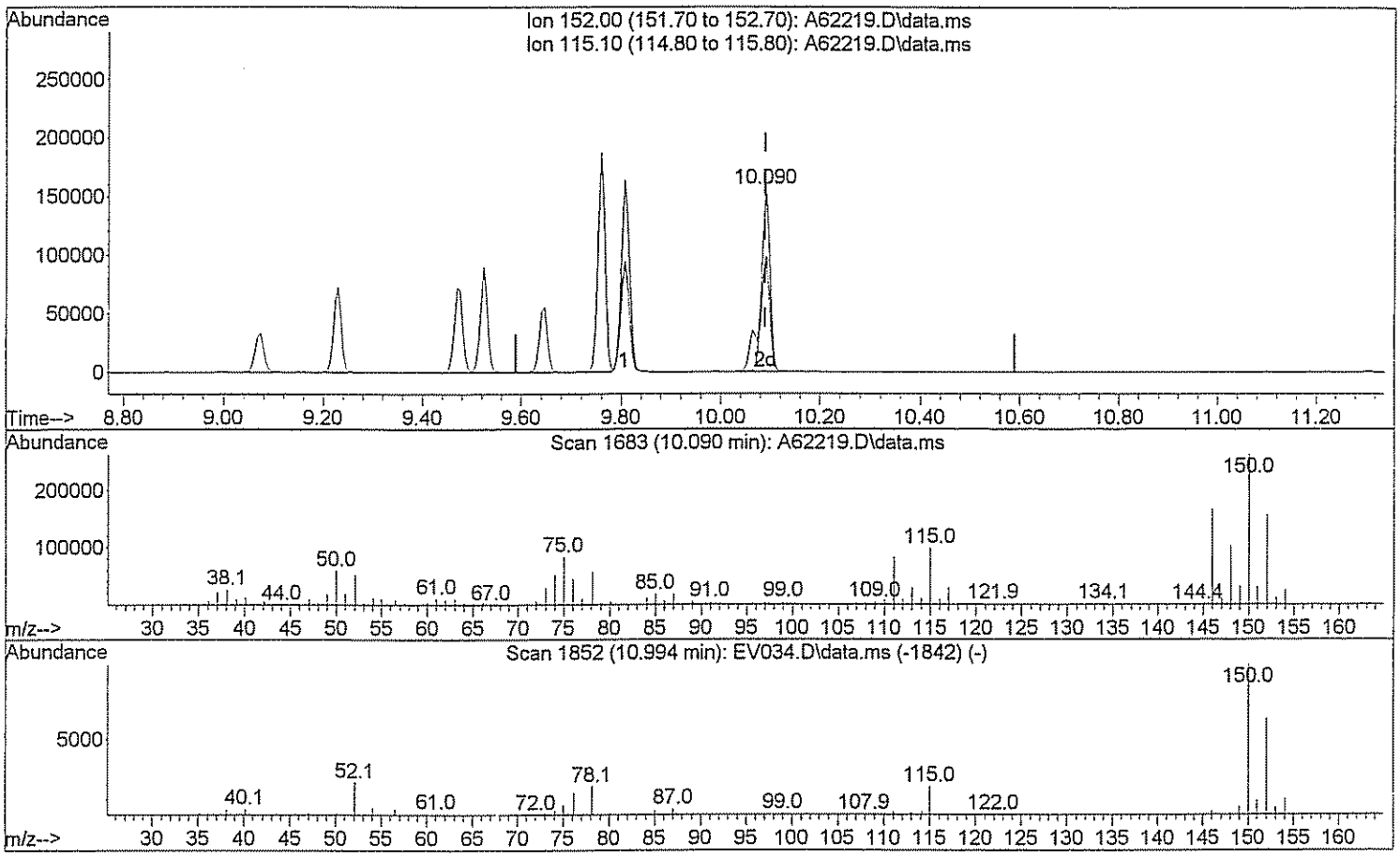
response 186440

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.000) 51.02 ug/L m DM 3/17/09

response 179334

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	61.39
0.00	0.00	0.00
0.00	0.00	0.00

REFERENCE

Evaluate ~~Concentrating~~ Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	88	0.00
2		Dichlorodifluoromethane	0.089	0.119	-33.7#	107	0.00
3		Chloromethane	0.174	0.181	-4.0	110	0.00
4		Vinyl chloride	0.207	0.222	-7.2	93	0.00
5		Bromomethane	0.115	0.170	-47.8#	191#	0.00
6		Chloroethane	0.145	0.167	-15.2	103	0.00
7		Trichlorofluoromethane	0.256	0.367	-43.4#	111	0.00
8		Ethyl Ether	0.178	0.188	-5.6	87	0.00
9		Freon 113	0.158	0.191	-20.9#	102	0.00
10		Acrolein	0.036	0.034	5.6	84	0.00
11		Tert-Butyl alcohol	0.020	0.020	0.0	69	0.00
12		1,1-Dichloroethene	0.182	0.191	-4.9	89	0.00
13		Iodomethane	0.211	0.197	6.6	191#	0.00
14		Acetonitrile	0.108	0.142	-31.5#	101	0.00
15		Methylene chloride	0.252	0.238	5.6	93	0.00
16		Trans-1,2-dichloroethene	0.209	0.233	-11.5	93	0.00
17		Isopropyl ether	0.812	0.913	-12.4	92	0.00
18		1,1-Dichloroethane	0.374	0.442	-18.2	95	0.00
19		Acetone	0.095	0.092	3.2	89	0.00
20		Methyl Acetate	0.186	0.222	-19.4	76	0.00
21		MTBE	0.545	0.606	-11.2	87	0.00
22		Carbon disulfide	0.679	0.630	7.2	91	0.00
23		Allyl Chloride	0.000	0.000	0.0	101	0.00
24		Acrylonitrile	0.063	0.063	0.0	83	0.00
25		Chloroprene	0.357	0.375	-5.0	93	0.00
26	T	n-Heptane	0.183	0.202	-10.4	103	0.00
27		2,2-Dichloropropane	0.313	0.341	-8.9	90	0.00
28		Cis-1,2-dichloroethene	0.253	0.261	-3.2	91	0.00
29		1,2-dichloroethene(total)	0.268	0.250	6.7	91	0.82#
30		Propionitrile	0.031	0.031	0.0	78	0.00
31		Bromochloromethane	0.109	0.123	-12.8	92	0.00
32		Tetrahydrofuran	0.051	0.052	-2.0	83	0.00
33		Chloroform	0.426	0.434	-1.9	96	0.00
34		Cyclohexane	0.392	0.405	-3.3	99	0.00
35		1,1,1-Trichloroethane	0.318	0.346	-8.8	91	0.00
36		Carbon tetrachloride	0.272	0.309	-13.6	94	0.00
37		Methacrylonitrile	0.170	0.171	-0.6	86	0.00
38		Methylcyclohexane	0.338	0.378	-11.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.019	-26.7#	106	0.00
40	SS	1,2-Dichloroethane-d4	0.266	0.278	-4.5	93	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
42		2-Butanone	0.163	0.177	-8.6	84	0.00
43		1,1-Dichloropropene	0.339	0.392	-15.6	93	0.00
44		Vinyl Acetate	0.381	0.382	-0.3	84	0.00
45		Benzene	1.058	1.201	-13.5	94	0.00
46		1,2-Dichloroethane	0.332	0.366	-10.2	90	0.00
47		Trichloroethene	0.272	0.285	-4.8	90	0.00
48		1,2-Dichloropropane	0.271	0.311	-14.8	92	0.00
49		Methyl methacrylate	0.196	0.187	4.6	82	0.00
50		Dibromomethane	0.167	0.175	-4.8	87	0.00
51		Bromodichloromethane	0.354	0.383	-8.2	89	0.00
52		2-Chloroethylvinyl ether	0.108	0.059	45.4#	32#	0.00
53		Cis-1,3-dichloropropene	0.427	0.497	-16.4	93	0.00
54	SS	Toluene-d8	1.159	1.216	-4.9	92	0.00
55		Toluene	0.694	0.799	-15.1	95	0.00
56		Trans-1,3-dichloropropene	0.387	0.440	-13.7	89	0.00
57		Ethyl methacrylate	0.347	0.372	-7.2	90	0.00
58		1,1,2-Trichloroethane	0.208	0.221	-6.3	88	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
60		4-Methyl-2-pentanone	0.292	0.305	-4.5	86	0.00
61		2-Hexanone	0.210	0.229	-9.0	87	0.00
62		Tetrachloroethene	0.288	0.327	-13.5	97	0.00
63		1,3-Dichloropropane	0.416	0.459	-10.3	92	0.00
64		Dibromochloromethane	0.301	0.315	-4.7	89	0.00
65		1,2-Dibromoethane	0.257	0.271	-5.4	91	0.00
66		1-Chlorohexane	0.432	0.455	-5.3	94	0.00
67		Chlorobenzene	0.848	0.950	-12.0	95	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.336	-10.5	93	0.00
69		Ethylbenzene	1.451	1.577	-8.7	95	0.00
70		m,p-Xylene	0.570	0.647	-13.5	95	0.00
71		o-Xylene	0.578	0.622	-7.6	94	0.00
72		Xylene (Total)	0.586	0.639	-9.0	94	0.00
73		Styrene	0.960	1.041	-8.4	92	0.00
74		Bromoform	0.187	0.198	-5.9	84	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.345	-9.5	94	0.00
76	SS	4-Bromofluorobenzene	0.471	0.472	-0.2	89	0.00
77		Bromobenzene	0.336	0.367	-9.2	93	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.331	-0.3	84	0.00
79		1,2,3-Trichloropropane	0.098	0.101	-3.1	87	0.00
80		n-Propylbenzene	1.700	1.863	-9.6	94	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.074	10.8	61	0.00
82		2-Chlorotoluene	0.361	0.385	-6.6	91	0.00
83		4-Chlorotoluene	0.374	0.406	-8.6	94	0.00
84		1,3,5-Trimethylbenzene	1.207	1.314	-8.9	93	0.00
85		Tert-butylbenzene	1.049	1.148	-9.4	93	0.00
86		Pentachloroethane	0.000	0.000	0.0	91	0.00
87		1,2,4-Trimethylbenzene	1.254	1.370	-9.3	94	0.00
88		Sec-Butylbenzene	1.607	1.767	-10.0	93	0.00
89		1,3-Dichlorobenzene	0.706	0.771	-9.2	94	0.00
90		4-Isopropyltoluene	1.367	1.547	-13.2	93	0.00
91		1,4-Dichlorobenzene	0.708	0.780	-10.2	94	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.472	-2.2	92	0.00
93		1,2-Dichlorobenzene	0.674	0.729	-8.2	96	0.00
94		n-Butylbenzene	1.349	1.441	-6.8	93	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.056	1.8	82	0.00
96		1,2,4-Trichlorobenzene	0.409	0.441	-7.8	96	0.00
97		Hexachlorobutadiene	0.190	0.220	-15.8	101	0.00
98		Naphthalene	0.975	1.016	-4.2	83	0.00
99		1,2,3-Trichlorobenzene	0.342	0.368	-7.6	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	455382	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	371810	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	362973	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	126686	52.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.74%			
54) Toluene-d8	6.142	98	452235	52.49	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.98%			
76) 4-Bromofluorobenzene	8.881	95	171300	50.07	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.14%			
92) 1,2-Dichlorobenzene-d4	10.090	152	171474	51.10	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.188	85	54067	67.01	ug/L	98
3) Chloromethane	1.327	50	82491	51.96	ug/L	98
4) Vinyl chloride	1.392	62	101158	53.68	ug/L	95
5) Bromomethane	1.616	94	77377	82.68	ug/L	92
6) Chloroethane	1.686	64	76250	57.64	ug/L	96
7) Trichlorofluoromethane	1.836	101	167046	60.75	ug/L	99
8) Ethyl Ether	2.044	59	85752	52.94	ug/L	97
9) Freon 113	2.178	101	86854	60.27	ug/L	89
10) Acrolein	2.189	56	77846	239.01	ug/L #	74
11) Tert-Butyl alcohol	2.670	59	184154	996.39	ug/L #	47
12) 1,1-Dichloroethene	2.205	96	86773	52.46	ug/L	89
13) Iodomethane	2.333	142	89900	46.73	ug/L	96
14) Acetonitrile	2.478	40	648038	539.72	ug/L #	1
15) Methylene chloride	2.590	84	108208	50.44	ug/L	98
16) Trans-1,2-dichloroethene	2.750	96	106306	55.96	ug/L	90
17) Isopropyl ether	3.093	45	415843	56.26	ug/L	100
18) 1,1-Dichloroethane	3.109	63	201485	59.18	ug/L	97
19) Acetone	2.296	43	83481	107.15	ug/L	95
20) Methyl Acetate	4.259	43	101155	44.82	ug/L #	100
21) MTBE	2.740	73	275965	55.64	ug/L	100
22) Carbon disulfide	2.355	76	286671	49.87	ug/L	100
24) Acrylonitrile	2.831	53	143730	249.46	ug/L	98
25) Chloroprene	3.146	53	170876	52.54	ug/L	91
26) n-Heptane	4.436	71	92056m	55.36	ug/L	
27) 2,2-Dichloropropane	3.553	77	155142	54.46	ug/L #	71
28) Cis-1,2-dichloroethene	3.574	96	118772	51.52	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	227721m	93.31 ug/L	
30) Propionitrile	3.735	54	142132	499.58 ug/L	99
31) Bromochloromethane	3.783	128	56165	56.47 ug/L	96
32) Tetrahydrofuran	3.788	72	23801	50.96 ug/L #	1
33) Chloroform	3.836	83	197718	50.93 ug/L	97
34) Cyclohexane	3.933	56	184270	54.44 ug/L	94
35) 1,1,1-Trichloroethane	3.960	97	157737	54.44 ug/L	99
36) Carbon tetrachloride	4.061	117	140935	56.81 ug/L	100
37) Methacrylonitrile	3.826	41	780286	504.02 ug/L #	19
38) Methylcyclohexane	4.992	83	172142	55.87 ug/L	94
39) Isobutyl Alcohol	4.436	43	174603	1293.22 ug/L	91
42) 2-Butanone	3.612	43	131383	108.32 ug/L	96
43) 1,1-Dichloropropene	4.099	75	145727	57.82 ug/L	98
44) Vinyl Acetate	3.136	43	142059	50.10 ug/L	99
45) Benzene	4.281	78	446598	56.75 ug/L	100
46) 1,2-Dichloroethane	4.377	62	135994	55.12 ug/L #	84
47) Trichloroethene	4.885	95	106034	52.47 ug/L	89
48) 1,2-Dichloropropane	5.163	63	115549	57.30 ug/L	95
49) Methyl methacrylate	5.265	69	69429	47.55 ug/L	97
50) Dibromomethane	5.281	93	64913	52.33 ug/L	96
51) Bromodichloromethane	5.431	83	142305	54.06 ug/L	100
52) 2-Chloroethylvinyl ether	5.778	63	88259	109.93 ug/L	95
53) Cis-1,3-dichloropropene	5.918	75	184617	58.20 ug/L	99
55) Toluene	6.217	92	297166	57.61 ug/L	98
56) Trans-1,3-dichloropropene	6.570	75	163637	56.93 ug/L	97
57) Ethyl methacrylate	6.624	69	138195	53.55 ug/L	94
58) 1,1,2-Trichloroethane	6.773	83	82308	53.18 ug/L	95
60) 4-Methyl-2-pentanone	6.094	43	221650	104.72 ug/L	95
61) 2-Hexanone	7.062	43	166157	108.75 ug/L	97
62) Tetrachloroethene	6.795	166	118630	56.70 ug/L	96
63) 1,3-Dichloropropane	6.977	76	166692	55.20 ug/L	92
64) Dibromochloromethane	7.185	129	114427	52.34 ug/L	99
65) 1,2-Dibromoethane	7.319	107	98318	52.70 ug/L	98
66) 1-Chlorohexane	7.790	91	164972	52.56 ug/L	93
67) Chlorobenzene	7.811	112	344787	56.02 ug/L	89
68) 1,1,1,2-Tetrachloroethane	7.908	131	122072	55.38 ug/L	96
69) Ethylbenzene	7.902	91	572267	54.32 ug/L	98
70) m,p-Xylene	8.020	106	469420	113.43 ug/L	90
71) o-Xylene	8.394	106	225692	53.82 ug/L	94
72) Xylene (Total)	8.020	106	695566m	163.62 ug/L	
73) Styrene	8.421	104	377972	54.24 ug/L	92
74) Bromoform	8.598	173	71717	52.89 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	488282	54.76 ug/L	98
77) Bromobenzene	8.994	156	133216	54.57 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	120279	50.17 ug/L	97
79) 1,2,3-Trichloropropane	9.085	110	36572	51.35 ug/L	96
80) n-Propylbenzene	9.069	91	676242	54.79 ug/L	99
81) Trans-1,4-dichloro-2-b...	9.106	53	26923	45.29 ug/L #	25
82) 2-Chlorotoluene	9.149	126	139769	53.40 ug/L	90
83) 4-Chlorotoluene	9.250	126	147320	54.23 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	476804	54.42 ug/L	95
85) Tert-butylbenzene	9.470	119	416869	54.76 ug/L	96
87) 1,2,4-Trimethylbenzene	9.518	105	497453	54.66 ug/L	93
88) Sec-Butylbenzene	9.641	105	641537	54.99 ug/L	98
89) 1,3-Dichlorobenzene	9.748	146	279766	54.61 ug/L	100
90) 4-Isopropyltoluene	9.759	119	561573	56.60 ug/L	98
91) 1,4-Dichlorobenzene	9.823	146	283114	55.08 ug/L	98
93) 1,2-Dichlorobenzene	10.101	146	264432	54.04 ug/L	99
94) n-Butylbenzene	10.064	91	523187	53.43 ug/L	95
95) 1,2-Dibromo-3-chloropr...	10.679	75	20440	49.78 ug/L	80
96) 1,2,4-Trichlorobenzene	11.224	180	160221	53.96 ug/L	99
97) Hexachlorobutadiene	11.305	225	79748	57.67 ug/L	98
98) Naphthalene	11.412	128	368792	52.12 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	133500	53.71 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
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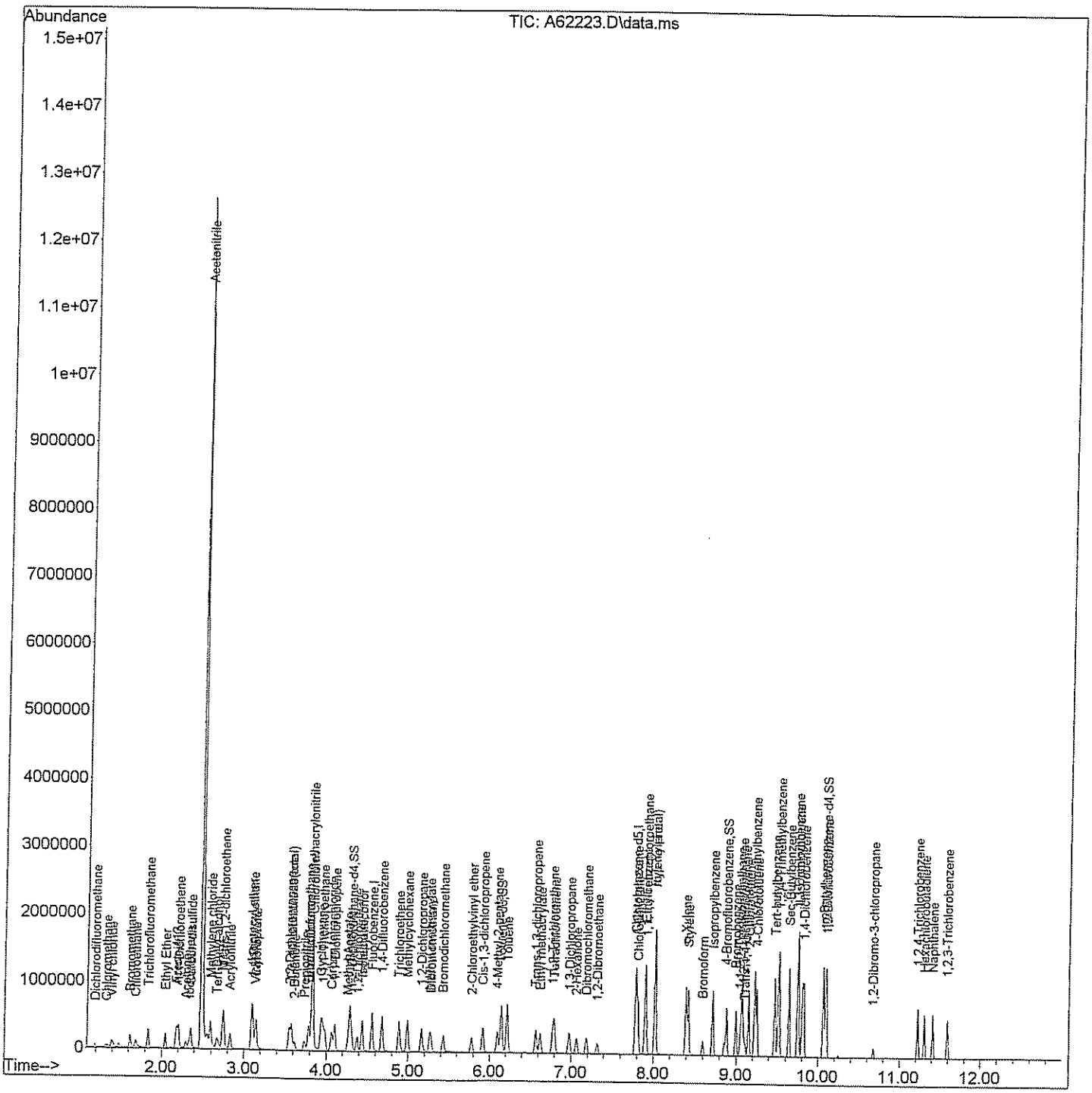
ALS Vial : 10 Sample Multiplier: 1

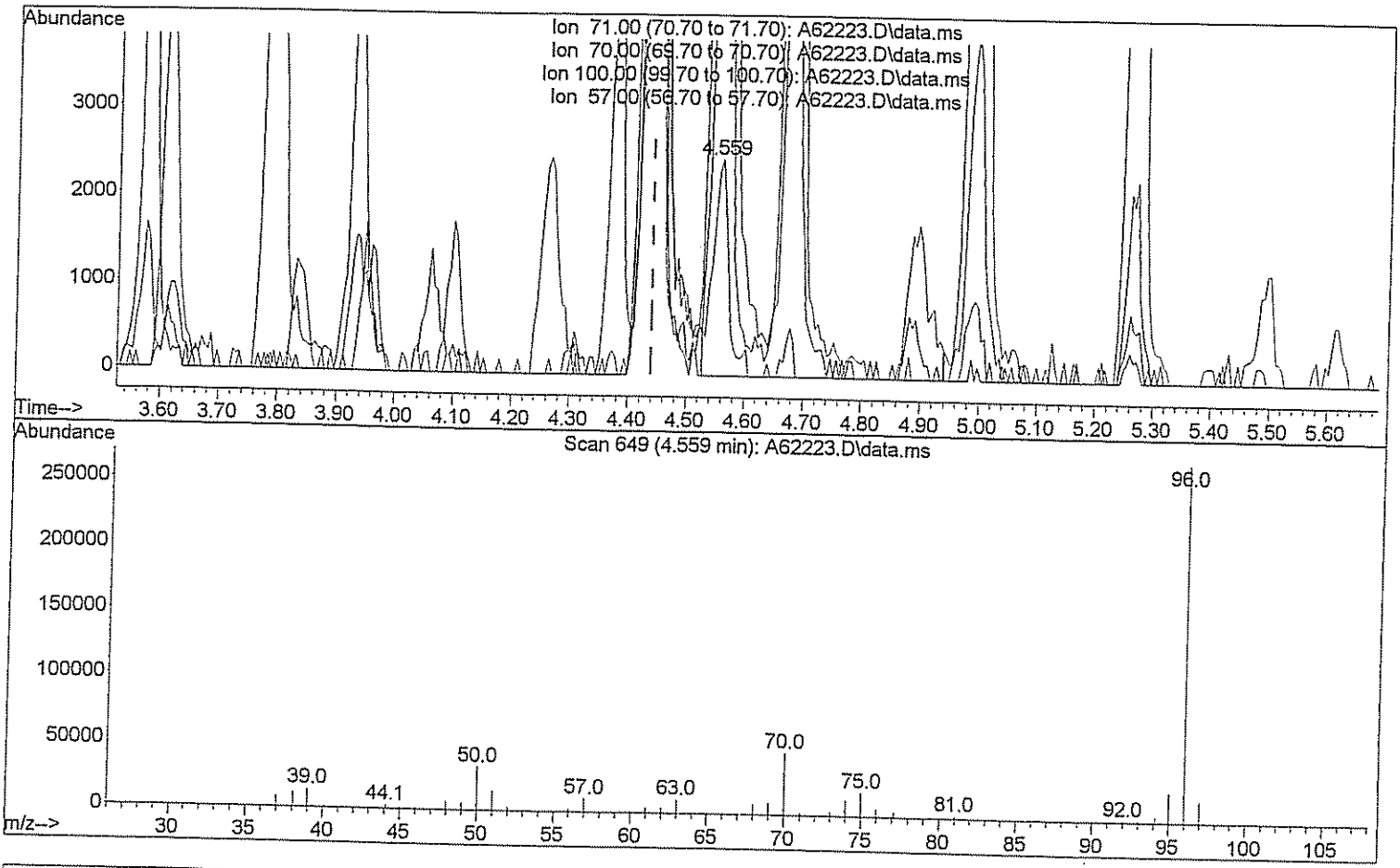
Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(26) n-Heptane (T)

4.559min (+0.118) 2.75 ug/L

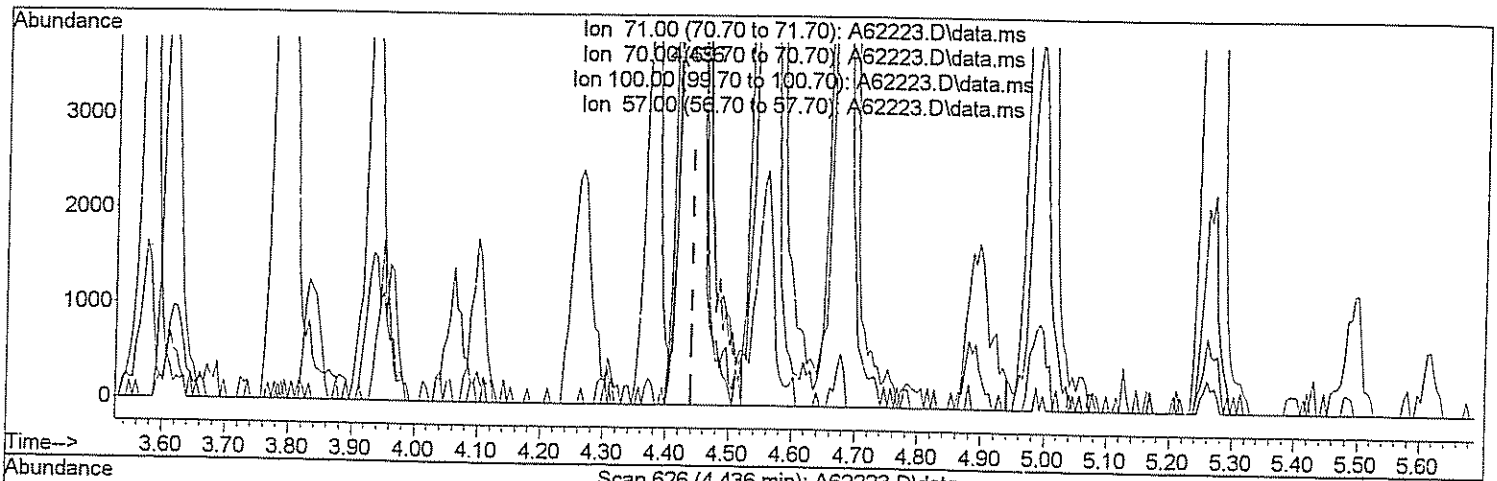
response 4573

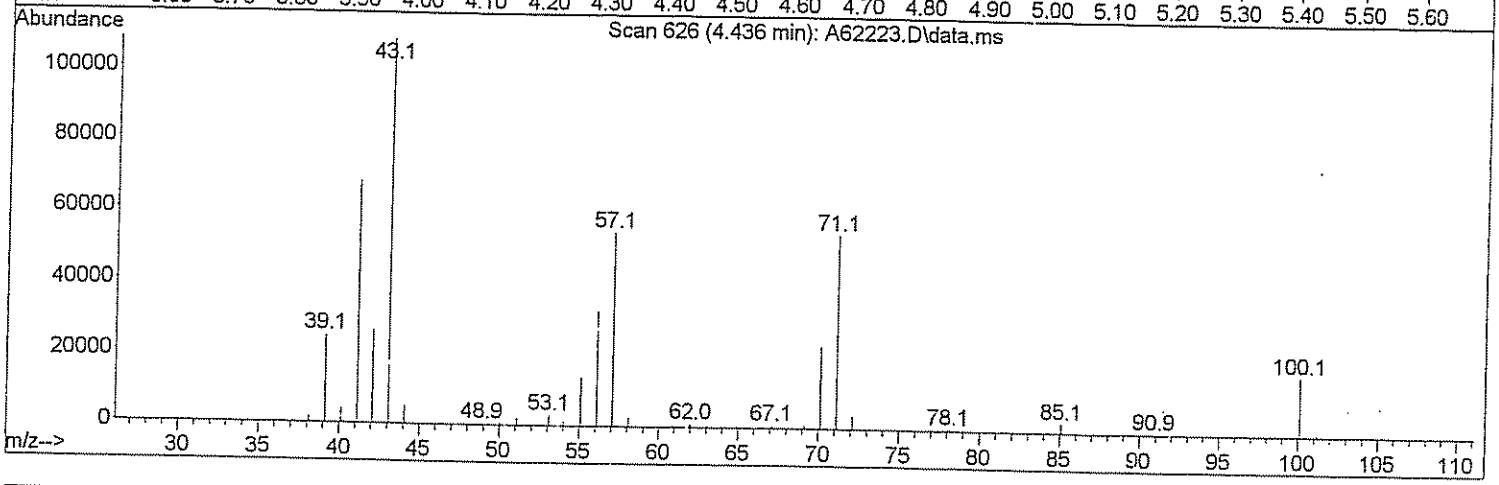
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1777.41#
100.00	62.00	0.00#
57.00	40.00	406.25#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration





TIC: A62223.D\data.ms

(26) n-Heptane (T)

4.436min (-0.005) 55.36 ug/L m Sm 3/17/09

response 92056

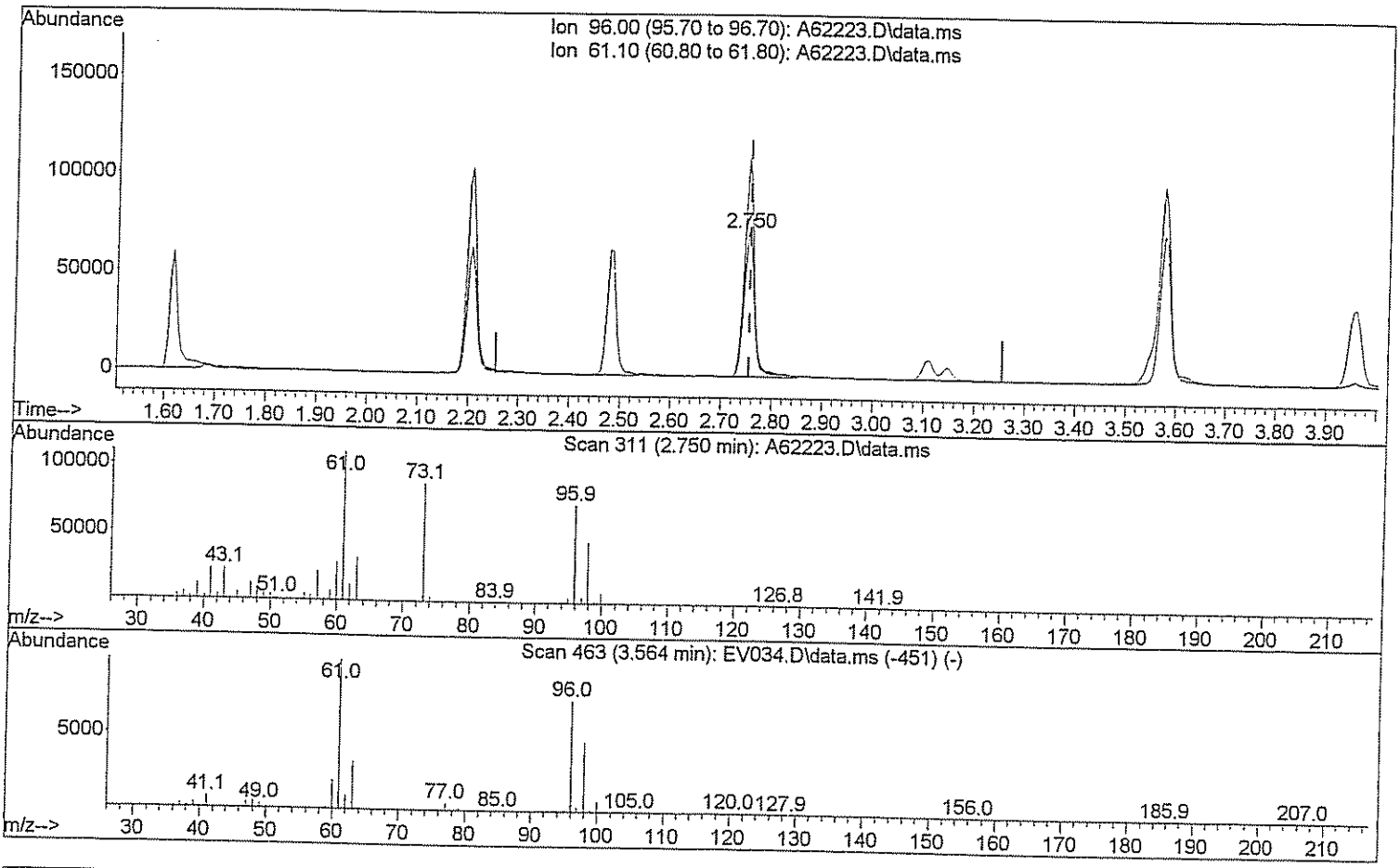
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	88.30#
100.00	62.00	0.00#
57.00	40.00	20.18#

202-6152-1

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 43.56 ug/L

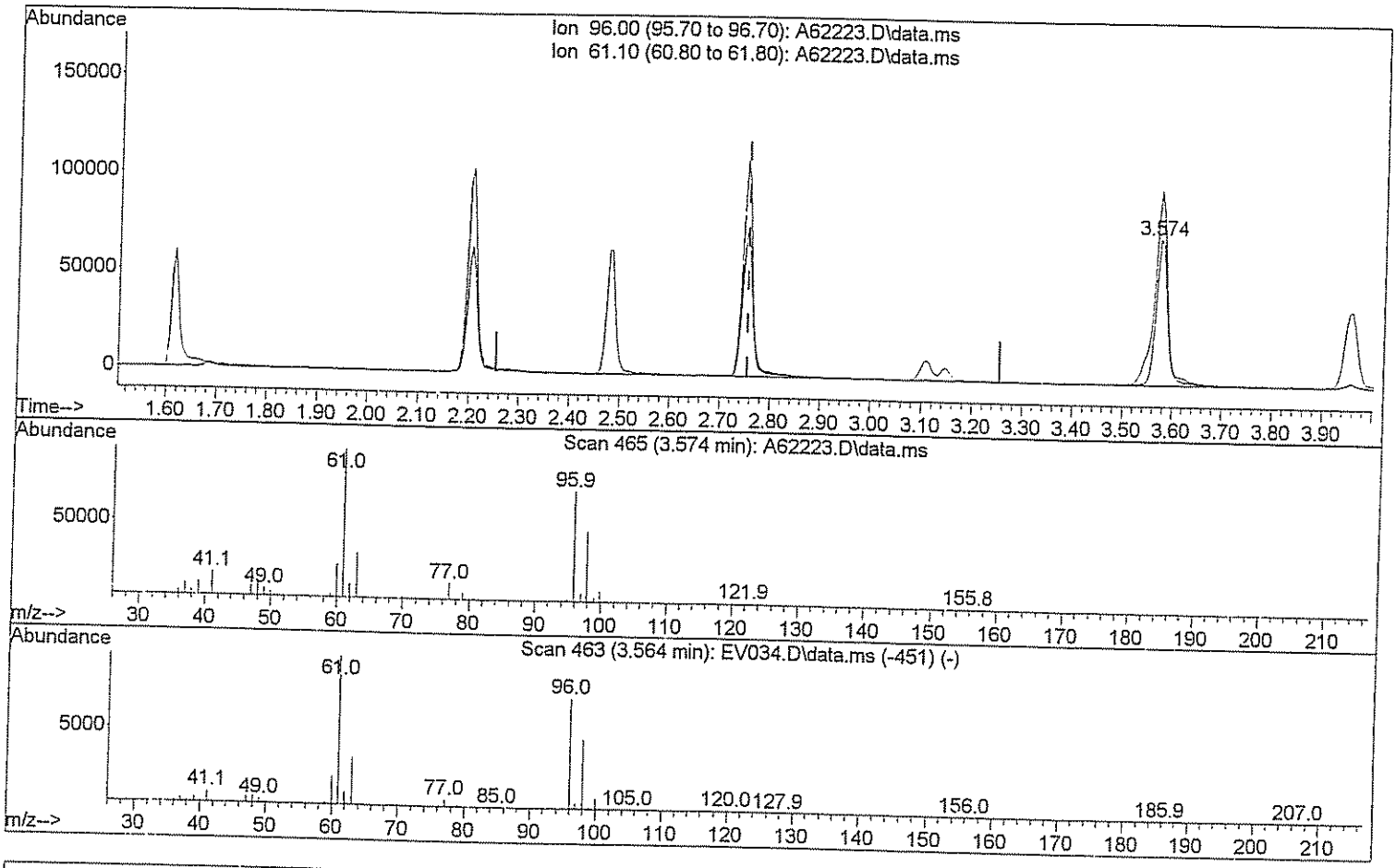
response 106306

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	142.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (+0.819) 93.31 ug/L m DMW 3/17/09

response 227721

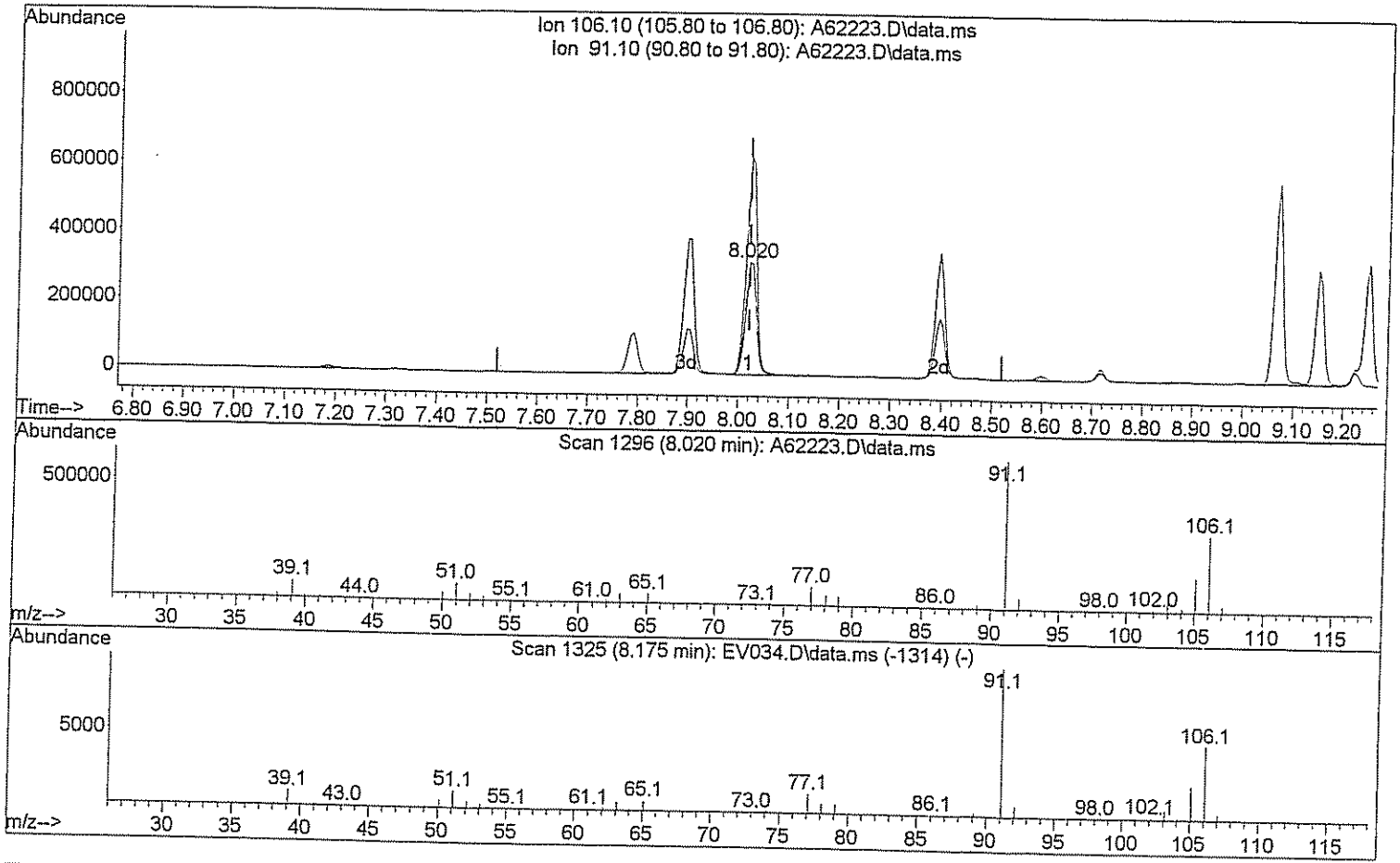
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	66.57#
0.00	0.00	0.00
0.00	0.00	0.00

204-6521

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 110.42 ug/L

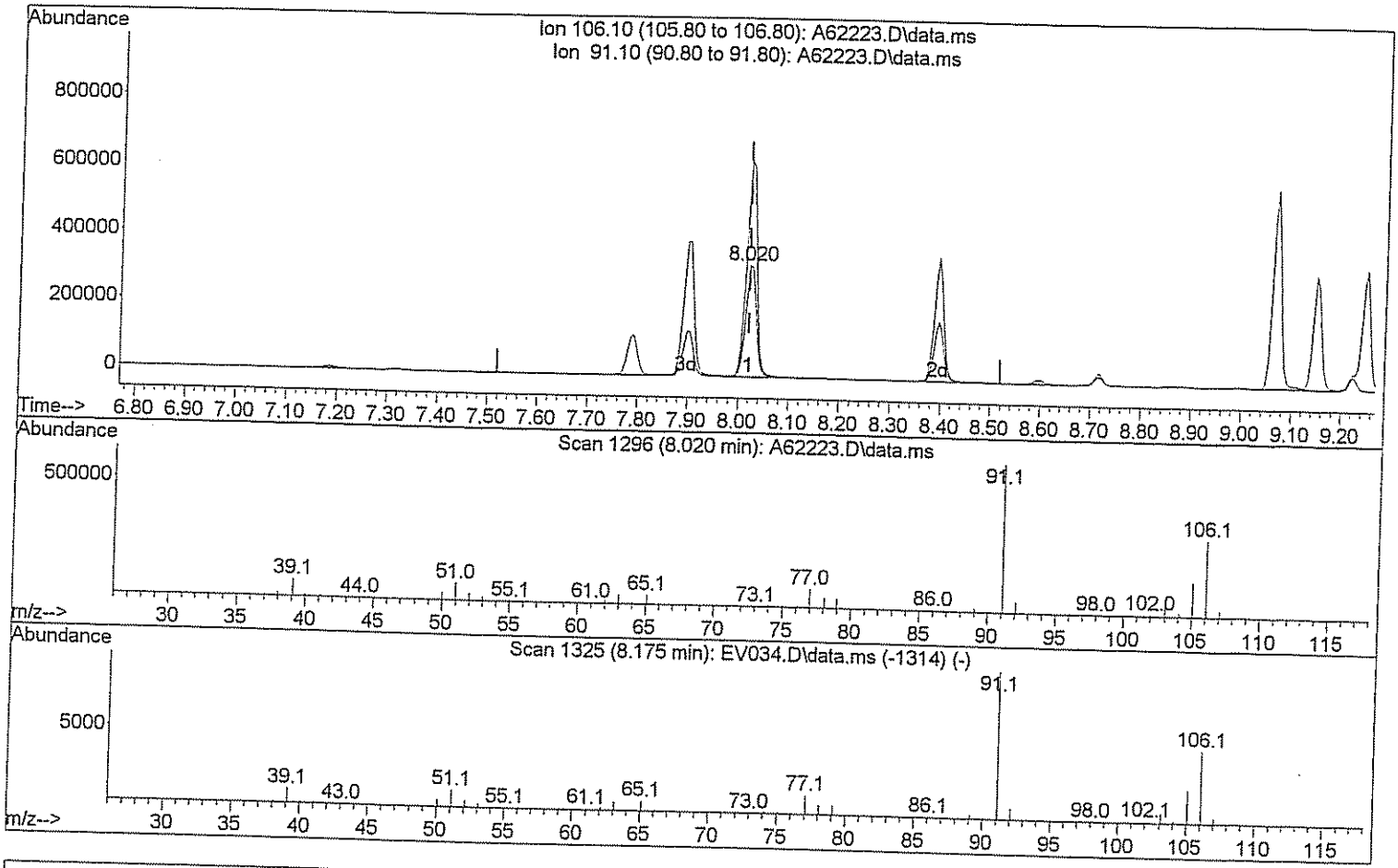
response 469420

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 163.62 ug/L m DM 3/17/09

response 695566

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.95#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:13:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	82	0.00
2		Dichlorodifluoromethane	0.089	0.090	-1.1	76	0.00
3		Chloromethane	0.174	0.169	2.9	96	0.00
4		Vinyl chloride	0.207	0.181	12.6	71	0.00
5		Bromomethane	0.115	0.336	-192.2#	354#	0.00
6		Chloroethane	0.145	0.298	-105.5#	172#	-0.01
7		Trichlorofluoromethane	0.256	0.351	-37.1#	100	-0.01
8		Ethyl Ether	0.178	0.184	-3.4	80	0.00
9		Freon 113	0.158	0.183	-15.8	92	-0.01
10		Acrolein	0.036	0.030	16.7	69	0.00
11		Tert-Butyl alcohol	0.020	0.024	-20.0	76	0.00
12		1,1-Dichloroethene	0.182	0.187	-2.7	82	-0.01
13		Iodomethane	0.211	0.178	15.6	161#	0.00
14		Acetonitrile	0.108	0.161	-49.1#	107	0.00
15		Methylene chloride	0.252	0.226	10.3	83	0.00
16		Trans-1,2-dichloroethene	0.209	0.225	-7.7	84	0.00
17		Isopropyl ether	0.812	0.798	1.7	75	0.00
18		1,1-Dichloroethane	0.374	0.401	-7.2	80	0.00
19		Acetone	0.095	0.075	21.1#	68	0.00
20		Methyl Acetate	0.186	0.256	-37.6#	82	0.00
21		MTBE	0.545	0.640	-17.4	86	0.00
22		Carbon disulfide	0.679	0.563	17.1	76	-0.01
23		Allyl Chloride	0.000	0.000	0.0	103	0.00
24		Acrylonitrile	0.063	0.065	-3.2	80	0.00
25		Chloroprene	0.357	0.349	2.2	81	0.00
26	T	n-Heptane	0.183	0.007	96.2#	3#	0.11
27		2,2-Dichloropropane	0.313	0.270	13.7	67	0.00
28		Cis-1,2-dichloroethene	0.253	0.246	2.8	80	0.00
29		1,2-dichloroethene(total)	0.268	0.246	8.2	84	0.00
30		Propionitrile	0.031	0.031	0.0	73	0.00
31		Bromochloromethane	0.109	0.138	-26.6#	96	0.00
32		Tetrahydrofuran	0.051	0.054	-5.9	80	0.00
33		Chloroform	0.426	0.458	-7.5	95	0.00
34		Cyclohexane	0.392	0.353	9.9	81	0.00
35		1,1,1-Trichloroethane	0.318	0.366	-15.1	91	0.00
36		Carbon tetrachloride	0.272	0.339	-24.6#	96	0.00
37		Methacrylonitrile	0.170	0.191	-12.4	90	0.00
38		Methylcyclohexane	0.338	0.333	1.5	82	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:13:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.013	13.3	66	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.287	-7.9	89	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
42		2-Butanone	0.163	0.152	6.7	75	0.00
43		1,1-Dichloropropene	0.339	0.319	5.9	79	0.00
44		Vinyl Acetate	0.381	0.256	32.8#	58	0.00
45		Benzene	1.058	1.014	4.2	83	0.00
46		1,2-Dichloroethane	0.332	0.326	1.8	83	0.00
47		Trichloroethene	0.272	0.246	9.6	81	0.00
48		1,2-Dichloropropane	0.271	0.258	4.8	79	0.00
49		Methyl methacrylate	0.196	0.170	13.3	78	0.00
50		Dibromomethane	0.167	0.169	-1.2	88	0.00
51		Bromodichloromethane	0.354	0.334	5.6	81	0.00
52		2-Chloroethylvinyl ether	0.108	0.172	-59.3#	95	0.00
53		Cis-1,3-dichloropropene	0.427	0.446	-4.4	87	0.00
54	SS	Toluene-d8	1.159	1.258	-8.5	100	0.00
55		Toluene	0.694	0.780	-12.4	97	0.00
56		Trans-1,3-dichloropropene	0.387	0.406	-4.9	86	0.00
57		Ethyl methacrylate	0.347	0.372	-7.2	93	0.00
58		1,1,2-Trichloroethane	0.208	0.239	-14.9	100	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
60		4-Methyl-2-pentanone	0.292	0.260	11.0	91	0.00
61		2-Hexanone	0.210	0.188	10.5	88	0.00
62		Tetrachloroethene	0.288	0.415	-44.1#	153#	0.00
63		1,3-Dichloropropane	0.416	0.395	5.0	98	0.00
64		Dibromochloromethane	0.301	0.315	-4.7	110	0.00
65		1,2-Dibromoethane	0.257	0.251	2.3	104	0.00
66		1-Chlorohexane	0.432	0.362	16.2	93	0.00
67		Chlorobenzene	0.848	0.876	-3.3	108	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.346	-13.8	118	0.00
69		Ethylbenzene	1.451	1.382	4.8	103	0.00
70		m,p-Xylene	0.570	0.586	-2.8	106	0.00
71		o-Xylene	0.578	0.556	3.8	104	0.00
72		Xylene (Total)	0.586	0.577	1.5	106	0.00
73		Styrene	0.960	0.961	-0.1	105	0.00
74		Bromoform	0.187	0.217	-16.0	115	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:13:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.250	-1.8	108	0.00
76	SS	4-Bromofluorobenzene	0.471	0.473	-0.4	111	0.00
77		Bromobenzene	0.336	0.403	-19.9	127	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.333	-0.9	105	0.00
79		1,2,3-Trichloropropane	0.098	0.105	-7.1	112	0.00
80		n-Propylbenzene	1.700	1.643	3.4	103	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.093	-12.0	96	0.00
82		2-Chlorotoluene	0.361	0.405	-12.2	118	0.00
83		4-Chlorotoluene	0.374	0.416	-11.2	119	0.00
84		1,3,5-Trimethylbenzene	1.207	1.243	-3.0	109	0.00
85		Tert-butylbenzene	1.049	1.163	-10.9	116	0.00
86		Pentachloroethane	0.000	0.000	0.0	85	0.00
87		1,2,4-Trimethylbenzene	1.254	1.302	-3.8	111	0.00
88		Sec-Butylbenzene	1.607	1.695	-5.5	110	0.00
89		1,3-Dichlorobenzene	0.706	0.864	-22.4#	131	0.00
90		4-Isopropyltoluene	1.367	1.578	-15.4	117	0.00
91		1,4-Dichlorobenzene	0.708	0.861	-21.6#	129	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.559	-21.0#	135	0.00
93		1,2-Dichlorobenzene	0.674	0.808	-19.9	132	0.00
94		n-Butylbenzene	1.349	1.307	3.1	105	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.056	1.8	102	0.00
96		1,2,4-Trichlorobenzene	0.409	0.478	-16.9	128	0.00
97		Hexachlorobutadiene	0.190	0.230	-21.1#	131	0.00
98		Naphthalene	0.975	1.170	-20.0	119	0.00
99		1,2,3-Trichlorobenzene	0.342	0.428	-25.1#	133	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:13:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	426193	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	387636	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	450122	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	122143	53.95	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 107.90%				
54) Toluene-d8	6.142	98	487724	54.30	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 108.60%				
76) 4-Bromofluorobenzene	8.881	95	212815	50.16	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.32%				
92) 1,2-Dichlorobenzene-d4	10.085	152	251538	60.45	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 120.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	38459	50.93	ug/L		95
3) Chloromethane	1.328	50	71908	48.40	ug/L	#	57
4) Vinyl chloride	1.392	62	77311	43.84	ug/L		100
5) Bromomethane	1.616	94	143078	128.41	ug/L		96
6) Chloroethane	1.681	64	127086	102.64	ug/L		97
7) Trichlorofluoromethane	1.830	101	149583	58.19	ug/L		97
8) Ethyl Ether	2.044	59	78528	51.80	ug/L		97
9) Freon 113	2.173	101	78184	57.97	ug/L		88
10) Acrolein	2.189	56	63683	208.92	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	202237	1169.17	ug/L	#	47
12) 1,1-Dichloroethene	2.200	96	79739	51.51	ug/L		86
13) Iodomethane	2.328	142	75667	42.03	ug/L		99
14) Acetonitrile	2.478	40	684926	605.25	ug/L	#	1
15) Methylene chloride	2.590	84	96113	47.96	ug/L		84
16) Trans-1,2-dichloroethene	2.751	96	95825	53.90	ug/L		83
17) Isopropyl ether	3.093	45	339984	49.15	ug/L		96
18) 1,1-Dichloroethane	3.104	63	171033	53.67	ug/L		99
19) Acetone	2.296	43	63690	87.53	ug/L		95
20) Methyl Acetate	4.265	43	109250	53.79	ug/L	#	100
21) MTBE	2.740	73	272713	58.75	ug/L		100
22) Carbon disulfide	2.349	76	239959	44.68	ug/L		100
24) Acrylonitrile	2.831	53	139001	257.78	ug/L		98
25) Chloroprene	3.141	53	148740	48.87	ug/L		95
26) n-Heptane	4.548	71	3063	1.97	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	115082	43.17	ug/L	#	61
28) Cis-1,2-dichloroethene	3.574	96	105051	48.69	ug/L		99

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:13:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	209347m	91.66	ug/L		
30) Propionitrile	3.735	54	132074	496.02	ug/L		99
31) Bromochloromethane	3.778	128	58722	63.09	ug/L	#	71
32) Tetrahydrofuran	3.783	72	22822	52.21	ug/L	#	1
33) Chloroform	3.837	83	195263	53.74	ug/L		98
34) Cyclohexane	3.933	56	150586	47.45	ug/L		89
35) 1,1,1-Trichloroethane	3.954	97	156192	57.60	ug/L		99
36) Carbon tetrachloride	4.061	117	144665	62.31	ug/L		100
37) Methacrylonitrile	3.826	41	812755	560.95	ug/L	#	24
38) Methylcyclohexane	4.992	83	142073	49.27	ug/L		89
39) Isobutyl Alcohol	4.265	43	109250	864.59	ug/L		94
42) 2-Butanone	3.612	43	117574	92.98	ug/L		98
43) 1,1-Dichloropropene	4.093	75	123814	47.12	ug/L		95
44) Vinyl Acetate	3.136	43	99101	33.52	ug/L	#	92
45) Benzene	4.281	78	393206	47.92	ug/L		100
46) 1,2-Dichloroethane	4.372	62	126363	49.13	ug/L		90
47) Trichloroethene	4.880	95	95403	45.28	ug/L	#	65
48) 1,2-Dichloropropane	5.163	63	99863	47.50	ug/L		99
49) Methyl methacrylate	5.260	69	65910	43.29	ug/L		96
50) Dibromomethane	5.276	93	65619	50.74	ug/L		98
51) Bromodichloromethane	5.431	83	129465	47.17	ug/L	#	98
52) 2-Chloroethylvinyl ether	5.779	63	266144	317.97	ug/L		94
53) Cis-1,3-dichloropropene	5.912	75	172748	52.23	ug/L		97
55) Toluene	6.217	92	302257	56.20	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	157474	52.55	ug/L		96
57) Ethyl methacrylate	6.624	69	144044	53.54	ug/L		96
58) 1,1,2-Trichloroethane	6.774	83	92758	57.49	ug/L		90
60) 4-Methyl-2-pentanone	6.094	43	234366	89.29	ug/L		97
61) 2-Hexanone	7.062	43	168820	89.10	ug/L		98
62) Tetrachloroethene	6.790	166	186785	71.98	ug/L		97
63) 1,3-Dichloropropane	6.972	76	177877	47.50	ug/L		90
64) Dibromochloromethane	7.180	129	141642	52.24	ug/L		97
65) 1,2-Dibromoethane	7.319	107	112826	48.77	ug/L		97
66) 1-Chlorohexane	7.785	91	162966	41.87	ug/L		93
67) Chlorobenzene	7.806	112	394086	51.64	ug/L		85
68) 1,1,1,2-Tetrachloroethane	7.908	131	155650	56.94	ug/L		97
69) Ethylbenzene	7.897	91	622264	47.63	ug/L		97
70) m,p-Xylene	8.020	106	527882	102.86	ug/L		85
71) o-Xylene	8.395	106	250374	48.15	ug/L		90
72) Xylene (Total)	8.020	106	779295m	147.82	ug/L		
73) Styrene	8.421	104	432579	50.06	ug/L		96
74) Bromoform	8.598	173	97829	58.18	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

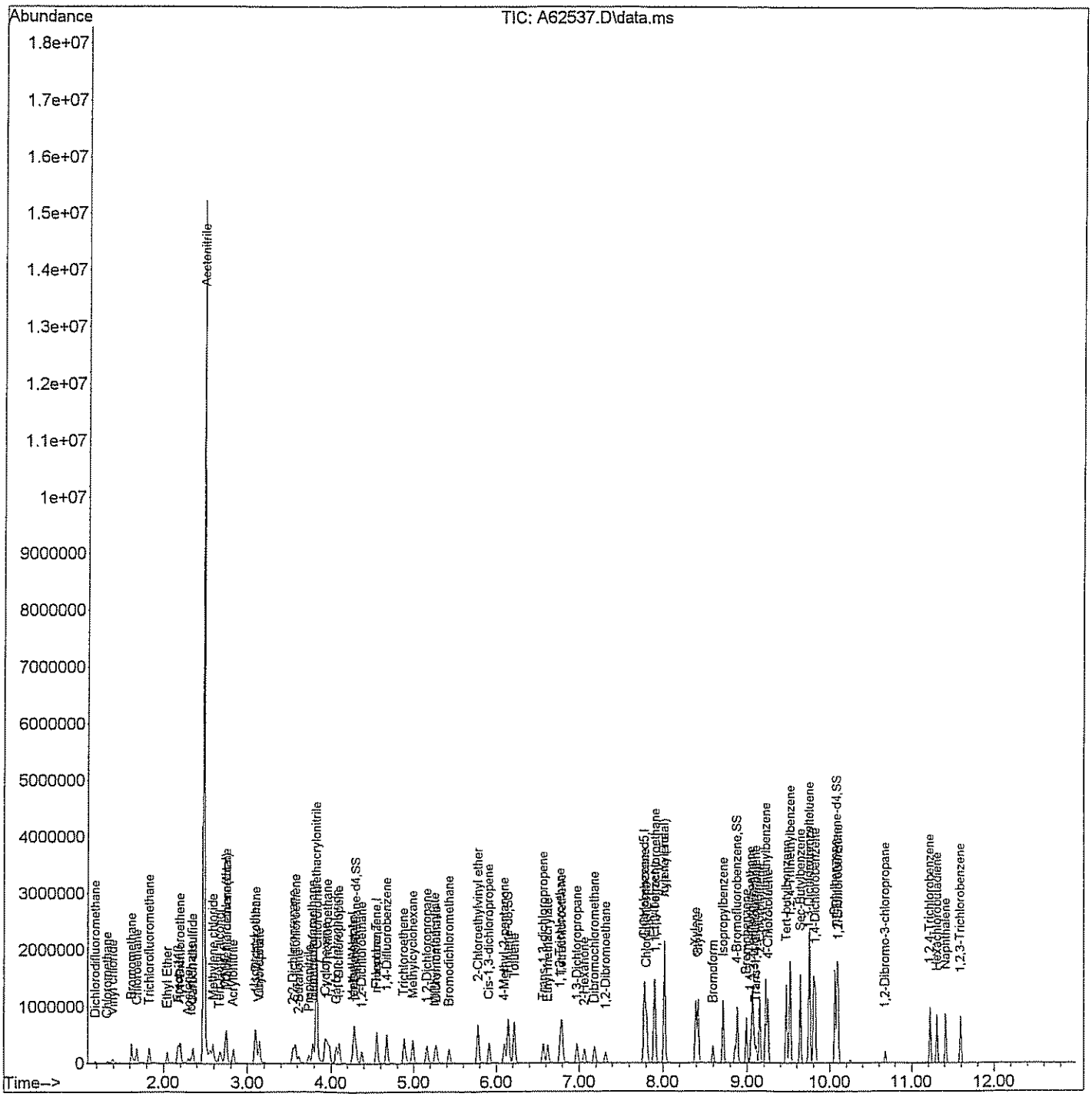
Quant Time: Mar 27 15:13:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	562849	50.90	ug/L		95
77) Bromobenzene	8.994	156	181186	59.85	ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.047	83	149723	50.36	ug/L		99
79) 1,2,3-Trichloropropane	9.085	110	47039	53.26	ug/L		99
80) n-Propylbenzene	9.063	91	739410	48.31	ug/L		94
81) Trans-1,4-dichloro-2-b...	9.106	53	41931	56.94	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	182265	56.16	ug/L		85
83) 4-Chlorotoluene	9.251	126	187093	55.54	ug/L		70
84) 1,3,5-Trimethylbenzene	9.224	105	559306	51.48	ug/L		92
85) Tert-butylbenzene	9.470	119	523507	55.46	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	586079	51.93	ug/L		91
88) Sec-Butylbenzene	9.641	105	763046	52.74	ug/L		95
89) 1,3-Dichlorobenzene	9.743	146	388749	61.20	ug/L		99
90) 4-Isopropyltoluene	9.753	119	710405	57.74	ug/L		94
91) 1,4-Dichlorobenzene	9.823	146	387624	60.81	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	363760	59.95	ug/L		100
94) n-Butylbenzene	10.058	91	588475	48.46	ug/L	#	85
95) 1,2-Dibromo-3-chloropr...	10.679	75	25396	49.88	ug/L	#	63
96) 1,2,4-Trichlorobenzene	11.219	180	215047	58.41	ug/L		99
97) Hexachlorobutadiene	11.305	225	103675	60.46	ug/L		98
98) Naphthalene	11.412	128	526544	60.01	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	192842	62.56	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

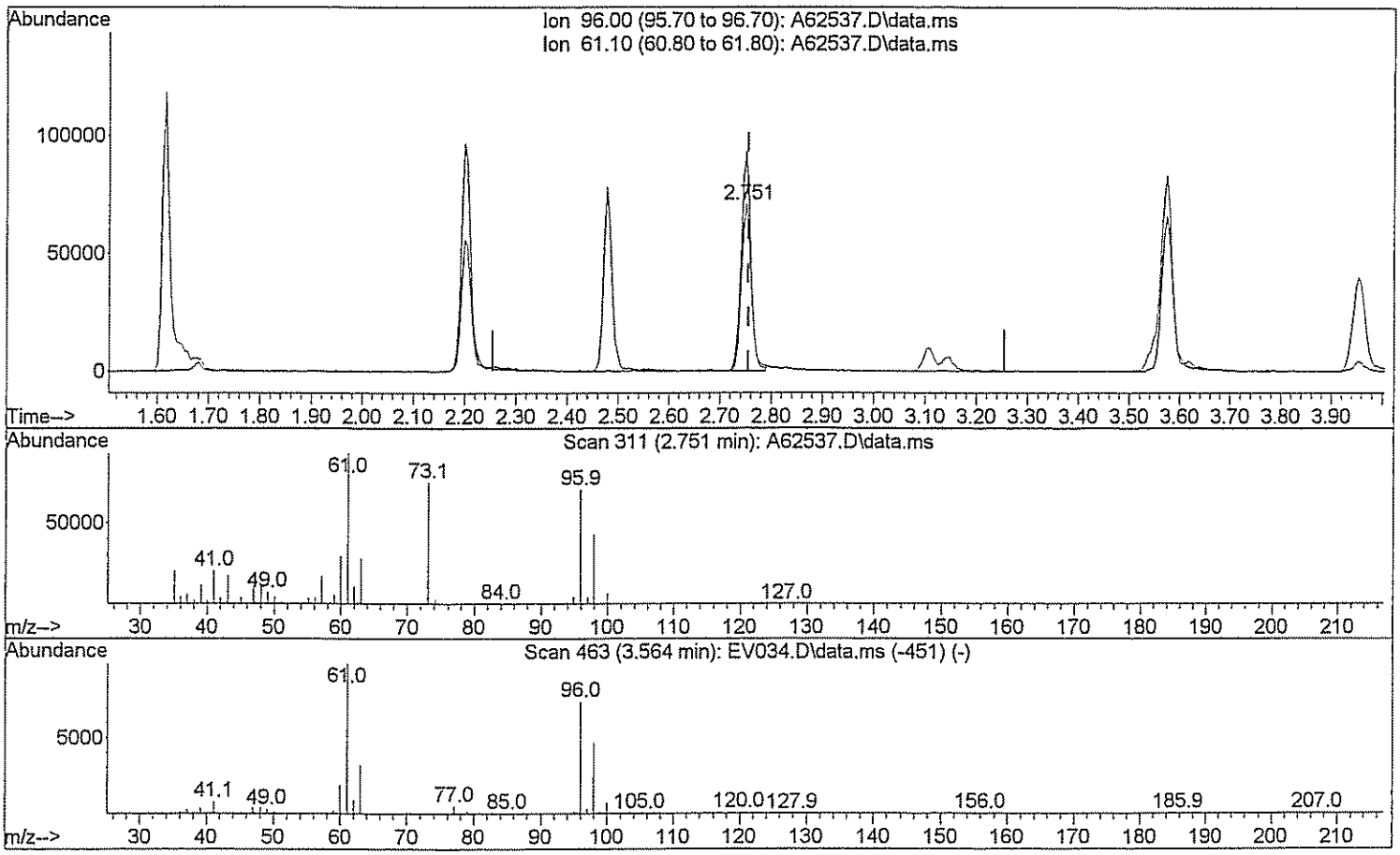
Quant Time: Mar 27 15:13:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:10:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62537.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 41.96 ug/L

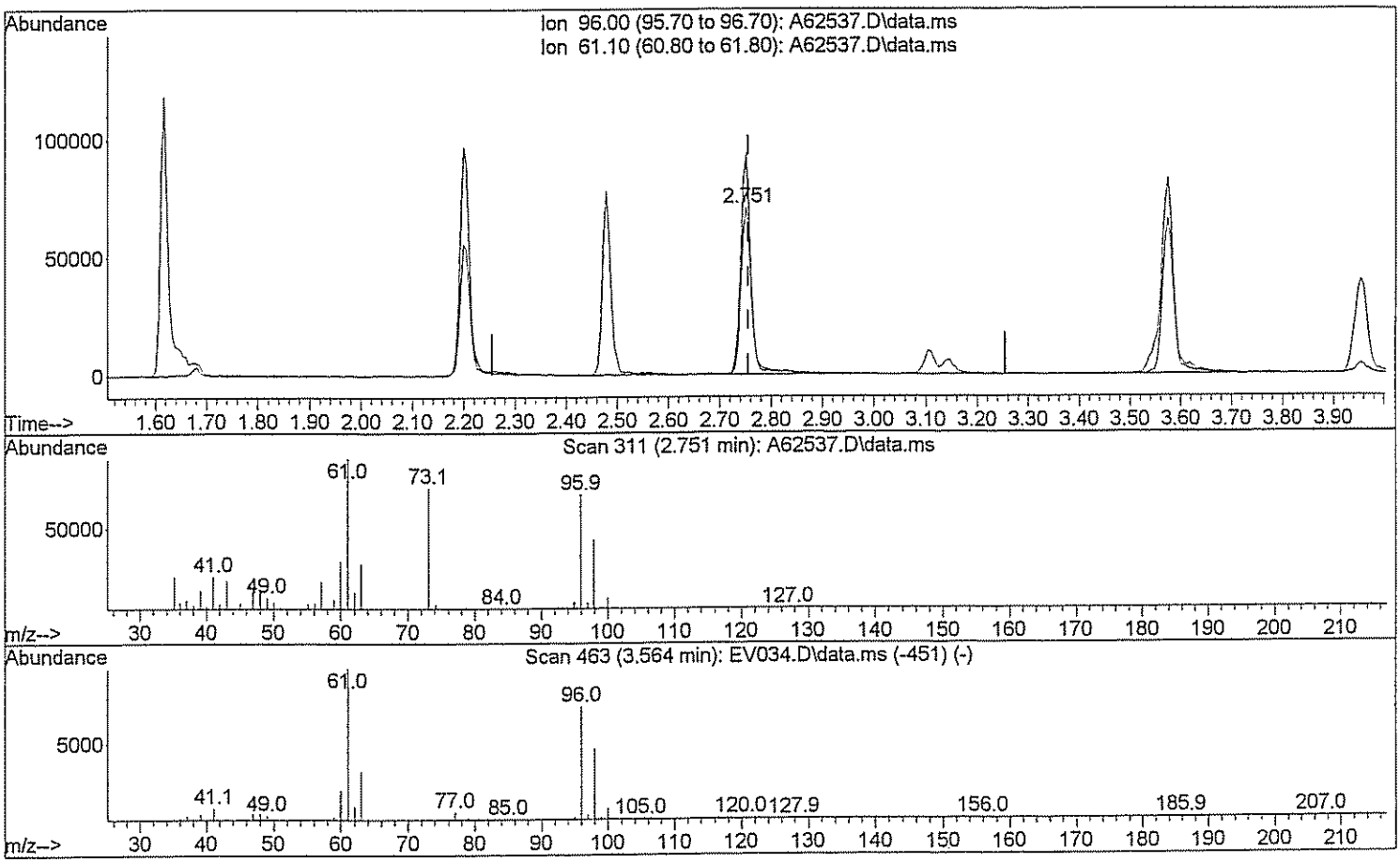
response 95825

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	132.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:10:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62537.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 91.66 ug/L m DW 3/27/09

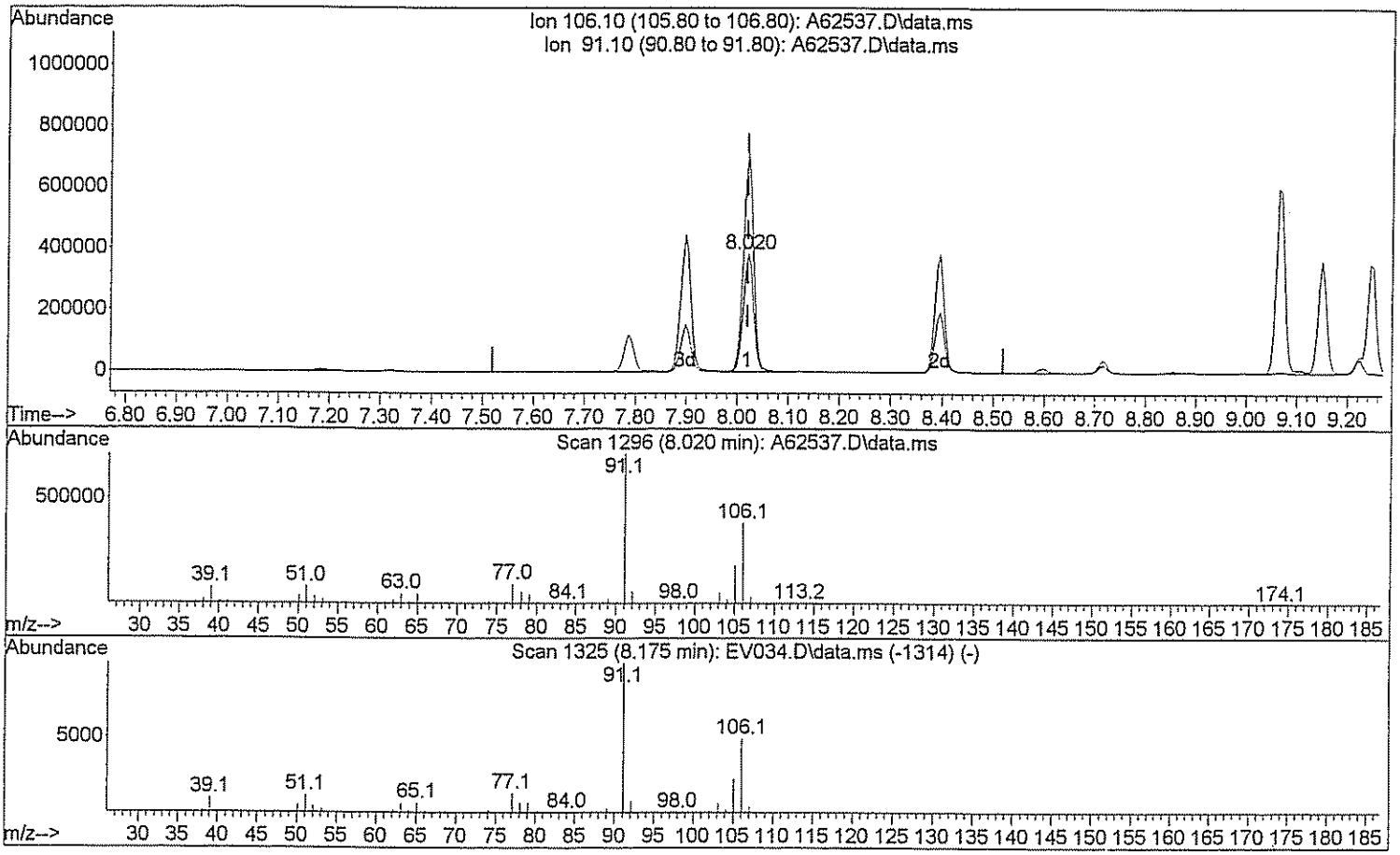
response 209347

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:10:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62537.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 100.13 ug/L

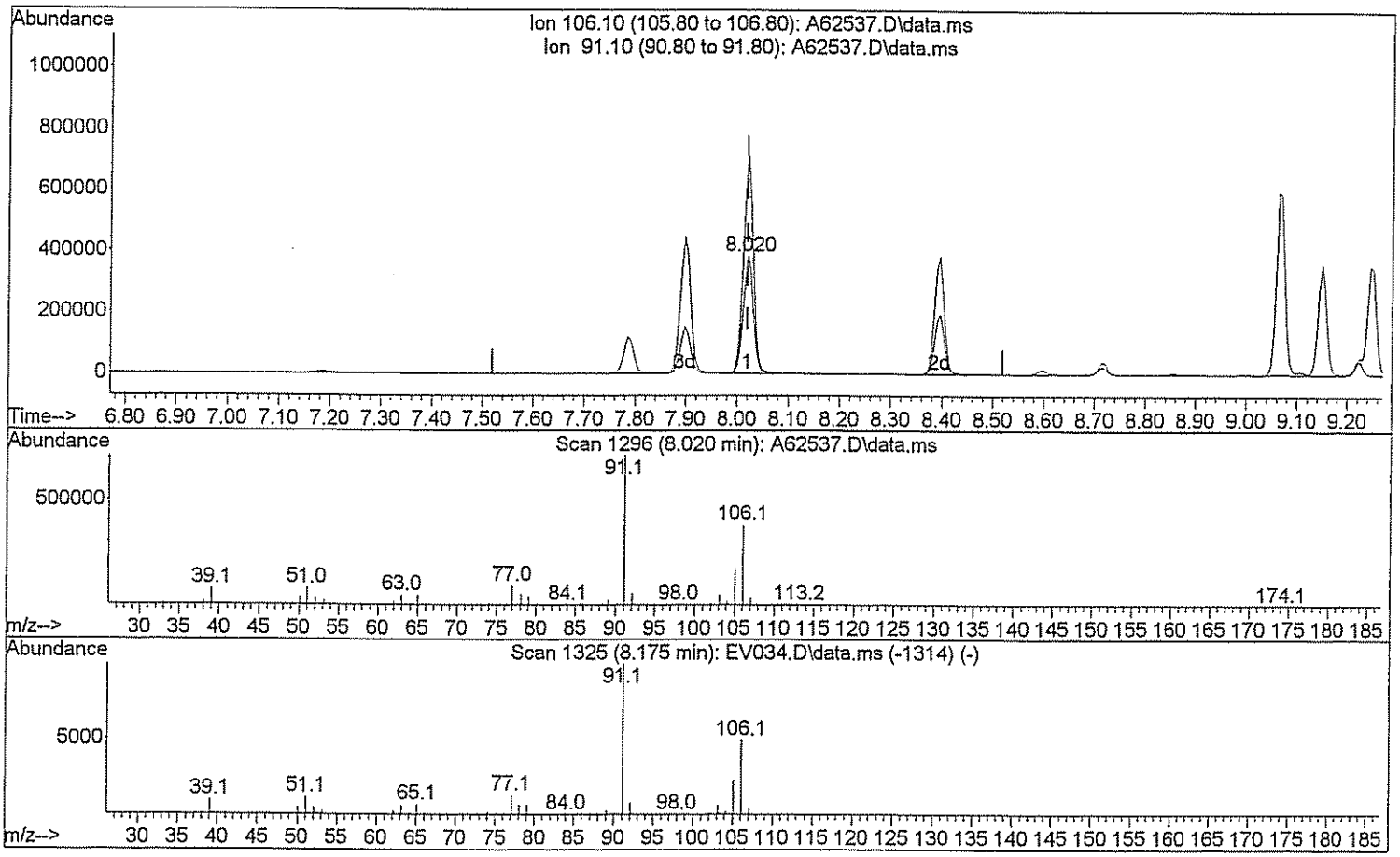
response 527882

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	184.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62537.D
Acq On : 25 Mar 2009 22:00
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 15:10:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62537.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 147.82 ug/L m DW 3/27/09

response 779295

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	124.86#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	76	0.00
2		Dichlorodifluoromethane	0.089	0.079	11.2	61	0.00
3		Chloromethane	0.174	0.145	16.7	76	0.00
4		Vinyl chloride	0.207	0.176	15.0	63	0.00
5		Bromomethane	0.115	0.358	-211.3#	346#	0.00
6		Chloroethane	0.145	0.129	11.0	69	0.00
7		Trichlorofluoromethane	0.256	0.299	-16.8	78	0.00
8		Ethyl Ether	0.178	0.162	9.0	65	0.00
9		Freon 113	0.158	0.191	-20.9#	87	0.00
10		Acrolein	0.036	0.027	25.0#	57	0.00
11		Tert-Butyl alcohol	0.020	0.017	15.0	49#	0.00
12		1,1-Dichloroethene	0.182	0.185	-1.6	74	0.00
13		Iodomethane	0.211	0.324	-53.6#	269#	0.00
14		Acetonitrile	0.108	0.161	-49.1#	98	0.00
15		Methylene chloride	0.252	0.220	12.7	74	0.00
16		Trans-1,2-dichloroethene	0.209	0.219	-4.8	75	0.00
17		Isopropyl ether	0.812	0.775	4.6	67	0.00
18		1,1-Dichloroethane	0.374	0.404	-8.0	74	0.00
19		Acetone	0.095	0.063	33.7#	53	0.00
20		Methyl Acetate	0.186	0.176	5.4	52	0.00
21		MTBE	0.545	0.569	-4.4	71	0.00
22		Carbon disulfide	0.679	0.573	15.6	71	0.00
23		Allyl Chloride	0.000	0.000	0.0	93	0.00
24		Acrylonitrile	0.063	0.054	14.3	61	0.00
25		Chloroprene	0.357	0.328	8.1	70	0.00
26	T	n-Heptane	0.183	0.008	95.6#	3#	0.12
27		2,2-Dichloropropane	0.313	0.301	3.8	68	0.00
28		Cis-1,2-dichloroethene	0.253	0.250	1.2	75	0.00
29		1,2-dichloroethene(total)	0.268	0.241	10.1	75	0.00
30		Propionitrile	0.031	0.027	12.9	58	0.00
31		Bromochloromethane	0.109	0.137	-25.7#	88	0.00
32		Tetrahydrofuran	0.051	0.047	7.8	64	0.00
33		Chloroform	0.426	0.444	-4.2	84	0.00
34		Cyclohexane	0.392	0.349	11.0	74	0.00
35		1,1,1-Trichloroethane	0.318	0.363	-14.2	82	0.00
36		Carbon tetrachloride	0.272	0.329	-21.0#	86	0.00
37		Methacrylonitrile	0.170	0.163	4.1	71	0.00
38		Methylcyclohexane	0.338	0.339	-0.3	77	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	42#	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.282	-6.0	81	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
42		2-Butanone	0.163	0.119	27.0#	55	0.00
43		1,1-Dichloropropene	0.339	0.306	9.7	71	0.00
44		Vinyl Acetate	0.381	0.237	37.8#	51	0.00
45		Benzene	1.058	0.964	8.9	74	0.00
46		1,2-Dichloroethane	0.332	0.309	6.9	74	0.00
47		Trichloroethene	0.272	0.246	9.6	76	0.00
48		1,2-Dichloropropane	0.271	0.242	10.7	69	0.00
49		Methyl methacrylate	0.196	0.142	27.6#	61	0.00
50		Dibromomethane	0.167	0.155	7.2	75	0.00
51		Bromodichloromethane	0.354	0.368	-4.0	84	0.00
52		2-Chloroethylvinyl ether	0.108	0.045	58.3#	23#	0.00
53		Cis-1,3-dichloropropene	0.427	0.421	1.4	77	0.00
54	SS	Toluene-d8	1.159	1.276	-10.1	94	0.00
55		Toluene	0.694	0.765	-10.2	89	0.00
56		Trans-1,3-dichloropropene	0.387	0.368	4.9	73	0.00
57		Ethyl methacrylate	0.347	0.334	3.7	78	0.00
58		1,1,2-Trichloroethane	0.208	0.218	-4.8	85	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00
60		4-Methyl-2-pentanone	0.292	0.214	26.7#	72	0.00
61		2-Hexanone	0.210	0.149	29.0#	68	0.00
62		Tetrachloroethene	0.288	0.334	-16.0	118	0.00
63		1,3-Dichloropropane	0.416	0.360	13.5	86	0.00
64		Dibromochloromethane	0.301	0.290	3.7	97	0.00
65		1,2-Dibromoethane	0.257	0.218	15.2	87	0.00
66		1-Chlorohexane	0.432	0.347	19.7	86	0.00
67		Chlorobenzene	0.848	0.827	2.5	99	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.324	-6.6	107	0.00
69		Ethylbenzene	1.451	1.293	10.9	93	0.00
70		m,p-Xylene	0.570	0.575	-0.9	100	0.00
71		o-Xylene	0.578	0.541	6.4	97	0.00
72		Xylene (Total)	0.586	0.565	3.6	100	0.00
73		Styrene	0.960	0.910	5.2	96	0.00
74		Bromoform	0.187	0.190	-1.6	97	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.222	0.5	102	0.00
76	SS	4-Bromofluorobenzene	0.471	0.469	0.4	106	0.00
77		Bromobenzene	0.336	0.388	-15.5	118	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.275	16.7	83	0.00
79		1,2,3-Trichloropropane	0.098	0.094	4.1	97	0.00
80		n-Propylbenzene	1.700	1.597	6.1	96	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.052	37.3#	52	0.00
82		2-Chlorotoluene	0.361	0.384	-6.4	108	0.00
83		4-Chlorotoluene	0.374	0.404	-8.0	112	0.00
84		1,3,5-Trimethylbenzene	1.207	1.195	1.0	101	0.00
85		Tert-butylbenzene	1.049	1.109	-5.7	107	0.00
86		Pentachloroethane	0.000	0.000	0.0	111	0.00
87		1,2,4-Trimethylbenzene	1.254	1.259	-0.4	103	0.00
88		Sec-Butylbenzene	1.607	1.613	-0.4	101	0.00
89		1,3-Dichlorobenzene	0.706	0.821	-16.3	120	0.00
90		4-Isopropyltoluene	1.367	1.534	-12.2	110	0.00
91		1,4-Dichlorobenzene	0.708	0.821	-16.0	118	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.548	-18.6	127	0.00
93		1,2-Dichlorobenzene	0.674	0.758	-12.5	119	0.00
94		n-Butylbenzene	1.349	1.241	8.0	96	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.043	24.6#	75	0.00
96		1,2,4-Trichlorobenzene	0.409	0.447	-9.3	116	0.00
97		Hexachlorobutadiene	0.190	0.218	-14.7	119	0.00
98		Naphthalene	0.975	0.919	5.7	90	0.00
99		1,2,3-Trichlorobenzene	0.342	0.375	-9.6	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	391514	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.677	114	362227	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.785	117	433260	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	110372	53.07	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.14%				
54) Toluene-d8	6.142	98	462371	55.09	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 110.18%				
76) 4-Bromofluorobenzene	8.881	95	203359	49.79	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.58%				
92) 1,2-Dichlorobenzene-d4	10.085	152	237591	59.32	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.189	85	30899	44.54	ug/L		99
3) Chloromethane	1.333	50	56820	41.63	ug/L		99
4) Vinyl chloride	1.397	62	68806	42.47	ug/L		96
5) Bromomethane	1.617	94	140153	133.62	ug/L		90
6) Chloroethane	1.686	64	50487	44.39	ug/L		95
7) Trichlorofluoromethane	1.836	101	117179	49.82	ug/L		97
8) Ethyl Ether	2.044	59	63455	45.57	ug/L		92
9) Freon 113	2.178	101	74604	60.21	ug/L		92
10) Acrolein	2.189	56	53353	190.53	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	131218	825.79	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	72284	50.83	ug/L		87
13) Iodomethane	2.333	142	126800	76.67	ug/L		99
14) Acetonitrile	2.483	40	631108	606.99	ug/L	#	1
15) Methylene chloride	2.595	84	86145	46.83	ug/L		89
16) Trans-1,2-dichloroethene	2.756	96	85592	52.41	ug/L		84
17) Isopropyl ether	3.093	45	303282	47.73	ug/L		97
18) 1,1-Dichloroethane	3.109	63	158311	54.08	ug/L		97
19) Acetone	2.296	43	49430	74.11	ug/L	#	88
20) Methyl Acetate	4.265	43	68873	34.20	ug/L	#	100
21) MTBE	2.740	73	222634	52.21	ug/L		100
22) Carbon disulfide	2.355	76	224308	45.45	ug/L		100
24) Acrylonitrile	2.831	53	105533	213.04	ug/L		99
25) Chloroprene	3.147	53	128559	45.98	ug/L		90
26) n-Heptane	4.559	71	3026	2.12	ug/L	#	1
27) 2,2-Dichloropropane	3.553	77	117954	48.16	ug/L	#	68
28) Cis-1,2-dichloroethene	3.580	96	97847	49.37	ug/L		97

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	188807m	89.99	ug/L		
30) Propionitrile	3.735	54	104346	426.60	ug/L		96
31) Bromochloromethane	3.783	128	53689	62.79	ug/L	#	70
32) Tetrahydrofuran	3.794	72	18231	45.40	ug/L	#	1
33) Chloroform	3.837	83	173666	52.03	ug/L		98
34) Cyclohexane	3.938	56	136556	46.83	ug/L	#	87
35) 1,1,1-Trichloroethane	3.960	97	142094	57.04	ug/L		99
36) Carbon tetrachloride	4.067	117	128757	60.37	ug/L		97
37) Methacrylonitrile	3.826	41	639069	480.15	ug/L	#	21
38) Methylcyclohexane	4.992	83	132593	50.06	ug/L		91
39) Isobutyl Alcohol	4.265	43	68873	593.33	ug/L		90
42) 2-Butanone	3.612	43	86502	73.21	ug/L		94
43) 1,1-Dichloropropene	4.099	75	110831	45.13	ug/L		95
44) Vinyl Acetate	3.136	43	85869	31.08	ug/L		97
45) Benzene	4.281	78	349318	45.56	ug/L		100
46) 1,2-Dichloroethane	4.377	62	112017	46.60	ug/L	#	88
47) Trichloroethene	4.885	95	89138	45.28	ug/L	#	69
48) 1,2-Dichloropropane	5.163	63	87481	44.53	ug/L		97
49) Methyl methacrylate	5.265	69	51551	36.24	ug/L		92
50) Dibromomethane	5.281	93	55965	46.31	ug/L		95
51) Bromodichloromethane	5.431	83	133264	51.97	ug/L	#	99
52) 2-Chloroethylvinyl ether	5.779	63	65149	83.30	ug/L		93
53) Cis-1,3-dichloropropene	5.918	75	152592	49.37	ug/L		94
55) Toluene	6.217	92	277186	55.16	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	133399	47.64	ug/L		97
57) Ethyl methacrylate	6.624	69	120922	48.09	ug/L		93
58) 1,1,2-Trichloroethane	6.774	83	78806	52.26	ug/L		93
60) 4-Methyl-2-pentanone	6.100	43	185855	73.56	ug/L		95
61) 2-Hexanone	7.063	43	129245	70.86	ug/L		95
62) Tetrachloroethene	6.795	166	144703	57.94	ug/L		96
63) 1,3-Dichloropropane	6.977	76	156065	43.30	ug/L		90
64) Dibromochloromethane	7.186	129	125673	48.15	ug/L		96
65) 1,2-Dibromoethane	7.319	107	94527	42.45	ug/L		95
66) 1-Chlorohexane	7.785	91	150546	40.18	ug/L		94
67) Chlorobenzene	7.811	112	358269	48.77	ug/L	#	83
68) 1,1,1,2-Tetrachloroethane	7.908	131	140415	53.37	ug/L		97
69) Ethylbenzene	7.897	91	560271	44.55	ug/L		96
70) m,p-Xylene	8.020	106	498111	100.84	ug/L		82
71) o-Xylene	8.395	106	234318	46.82	ug/L		85
72) Xylene (Total)	8.020	106	734059m	144.66	ug/L		
73) Styrene	8.421	104	394267	47.40	ug/L		99
74) Bromoform	8.598	173	82366	50.89	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

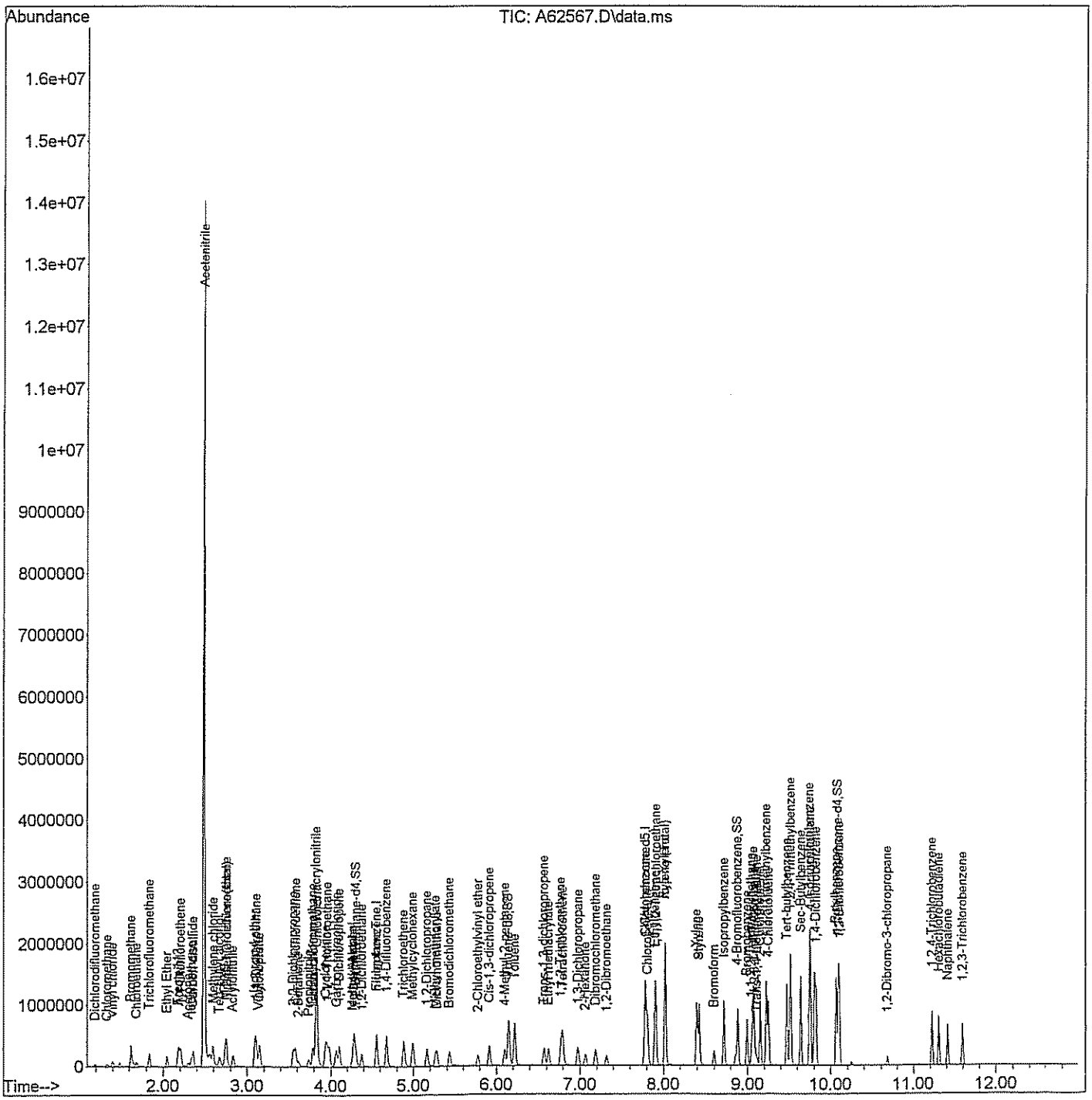
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	529359	49.74	ug/L		96
77) Bromobenzene	8.994	156	168209	57.72	ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.047	83	119059	41.60	ug/L		96
79) 1,2,3-Trichloropropane	9.085	110	40592	47.75	ug/L		96
80) n-Propylbenzene	9.069	91	691771	46.96	ug/L		94
81) Trans-1,4-dichloro-2-b...	9.111	53	22588	31.52	ug/L	#	24
82) 2-Chlorotoluene	9.149	126	166534	53.31	ug/L	#	83
83) 4-Chlorotoluene	9.251	126	174982	53.96	ug/L		70
84) 1,3,5-Trimethylbenzene	9.224	105	517764	49.51	ug/L		91
85) Tert-butylbenzene	9.470	119	480567	52.89	ug/L		91
87) 1,2,4-Trimethylbenzene	9.518	105	545320	50.20	ug/L		89
88) Sec-Butylbenzene	9.641	105	699052	50.20	ug/L		92
89) 1,3-Dichlorobenzene	9.748	146	355665	58.17	ug/L		100
90) 4-Isopropyltoluene	9.759	119	664738	56.13	ug/L		94
91) 1,4-Dichlorobenzene	9.823	146	355583	57.95	ug/L		100
93) 1,2-Dichlorobenzene	10.101	146	328495	56.25	ug/L		97
94) n-Butylbenzene	10.058	91	537557	45.99	ug/L	#	85
95) 1,2-Dibromo-3-chloropr...	10.679	75	18592	37.93	ug/L	#	49
96) 1,2,4-Trichlorobenzene	11.225	180	193624	54.63	ug/L		97
97) Hexachlorobutadiene	11.305	225	94283	57.12	ug/L		97
98) Naphthalene	11.412	128	398018	47.13	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	162646	54.82	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

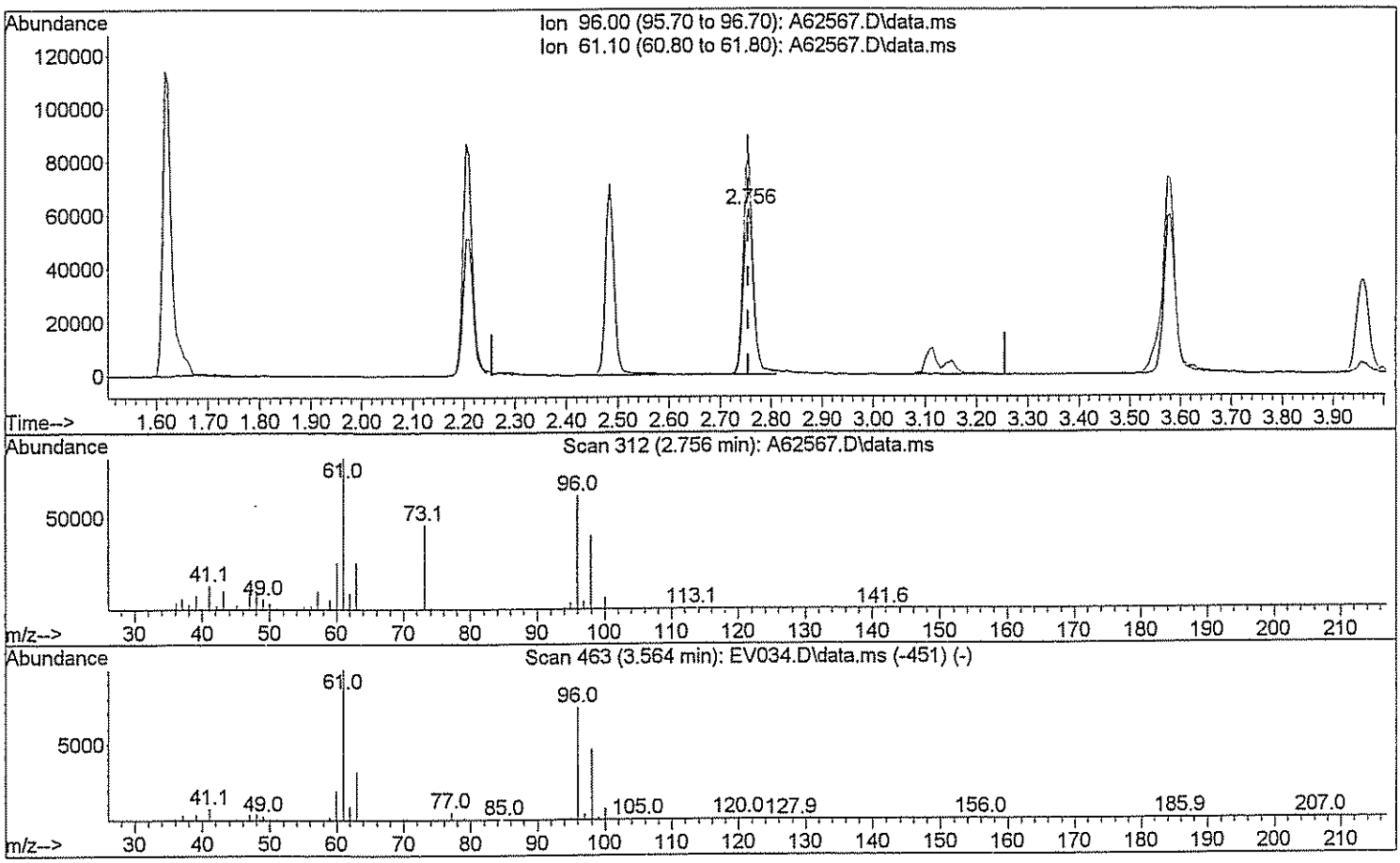
Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 09:40:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62567.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 40.79 ug/L

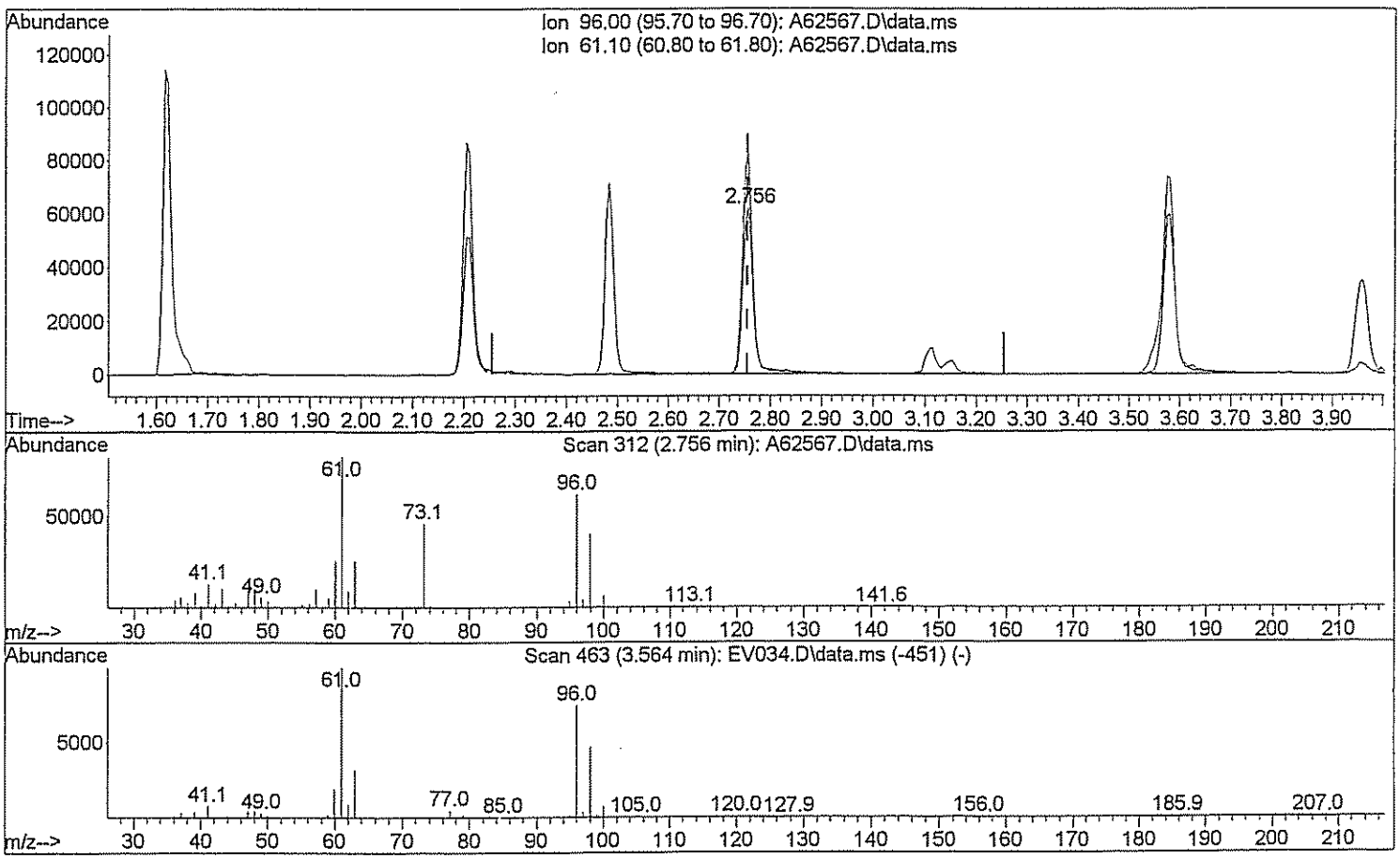
response 85592

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	133.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 09:40:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62567.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 89.99 ug/L m Jm 3/27/09

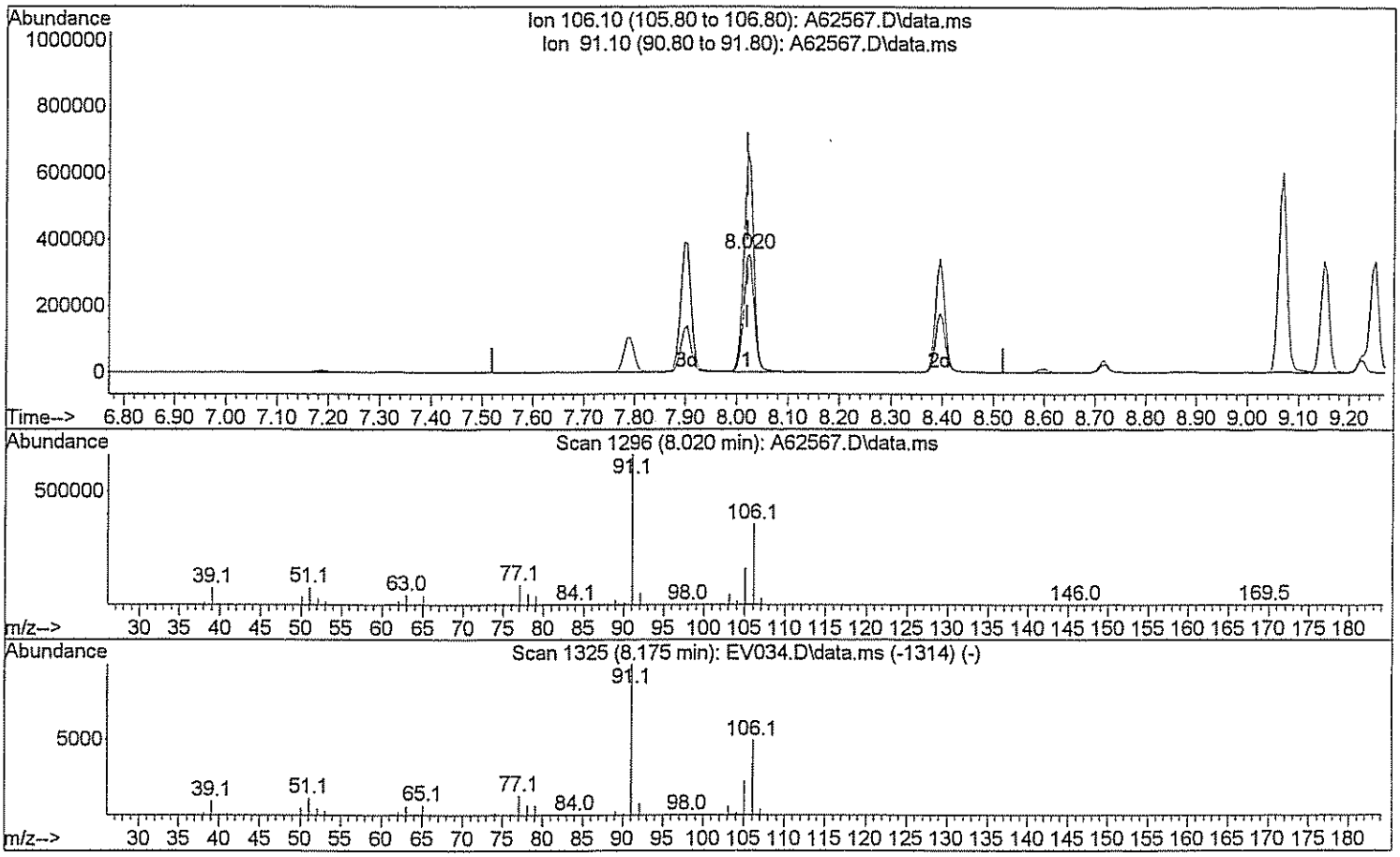
response 188807

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 09:40:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62567.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 98.16 ug/L

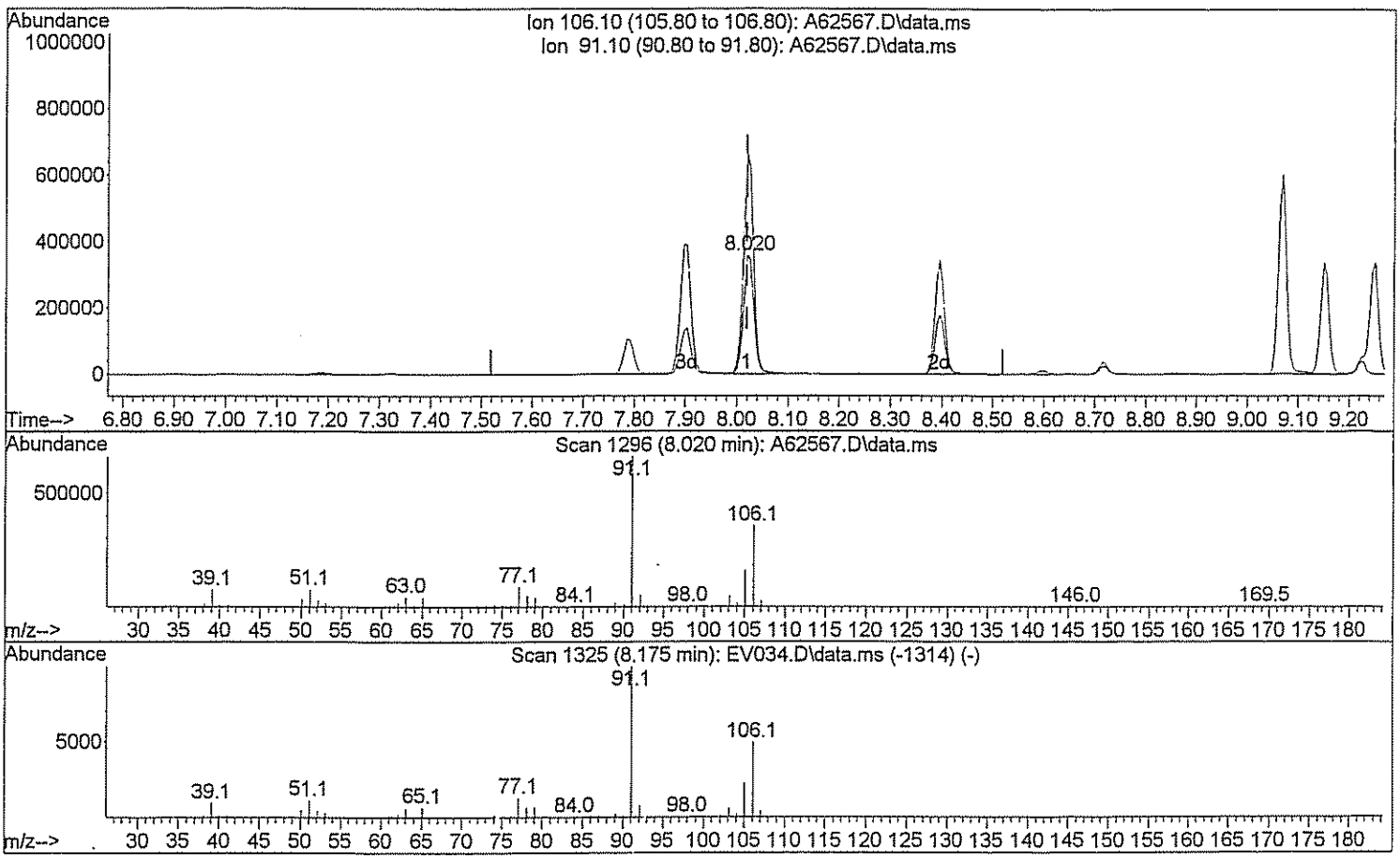
response 498111

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	180.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 09:40:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62567.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 144.66 ug/L m DW 3/27/09

response 734059

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	122.72#
0.00	0.00	0.00
0.00	0.00	0.00

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

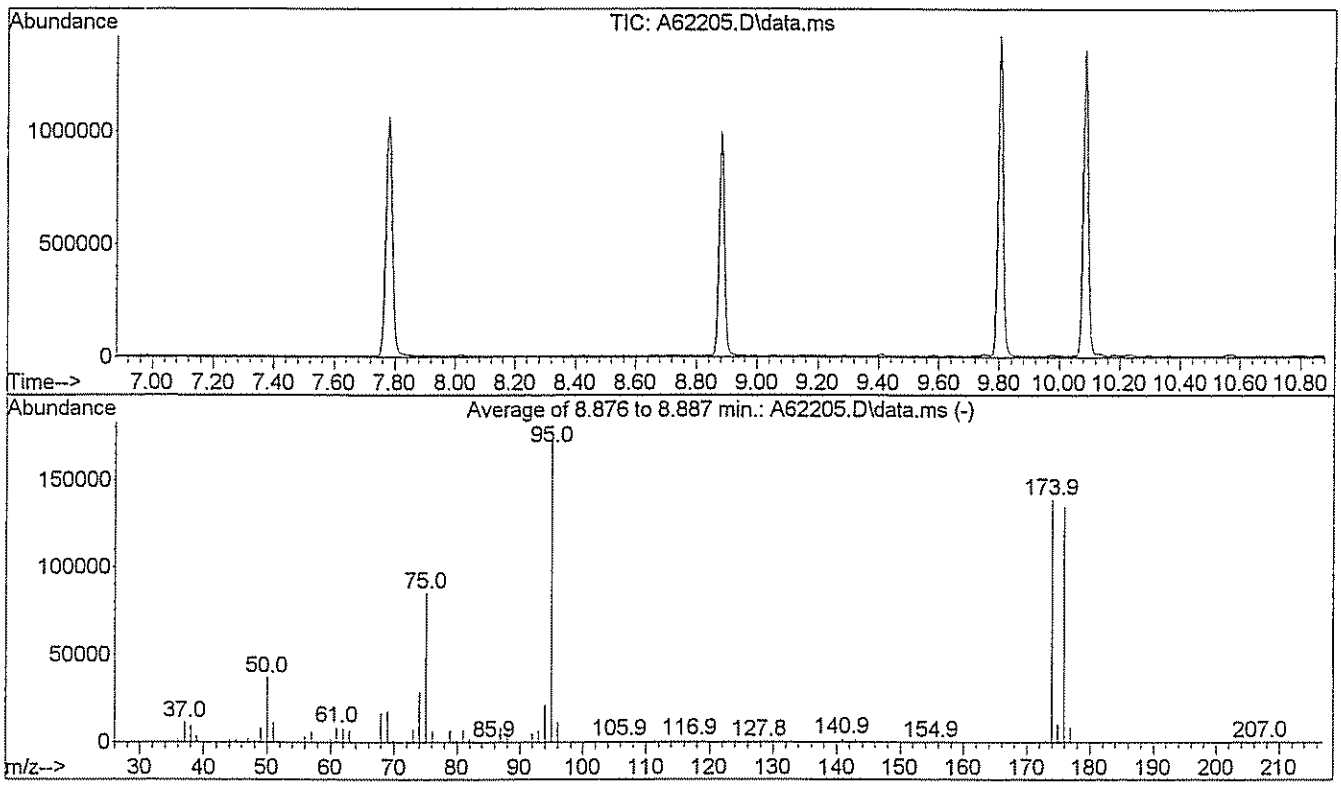
6. Injection Logsheet

7. Control Charts (where applicable)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62205.D
Acq On : 10 Mar 2009 7:35
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 07:32:19 2009



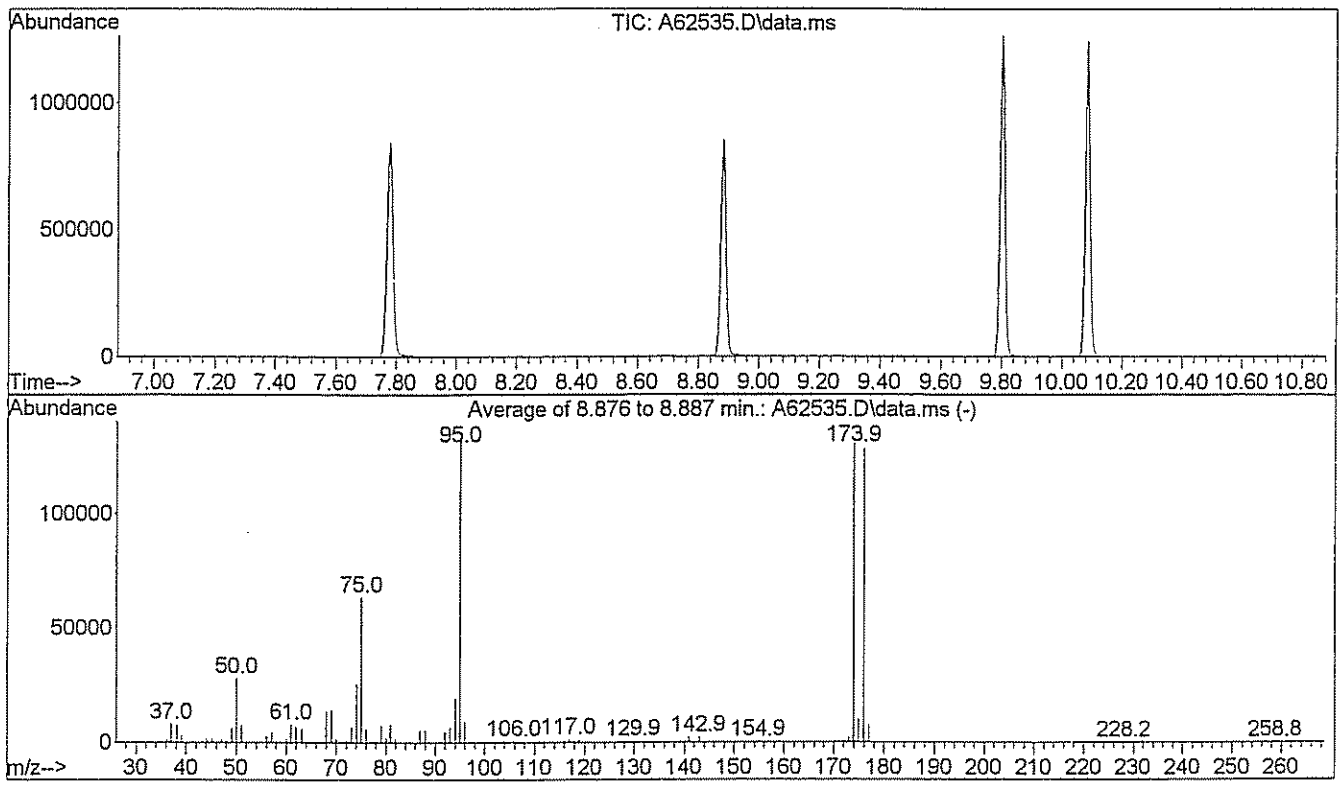
AutoFind: Scans 1456, 1457, 1458; Background Corrected with Scan 1448

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	36987	PASS
75	95	30	60	48.8	85267	PASS
95	95	100	100	100.0	174571	PASS
96	95	5	9	6.6	11522	PASS
173	174	0.00	2	0.8	1093	PASS
174	95	50	100	79.6	139005	PASS
175	174	5	9	7.4	10350	PASS
176	174	95	100	97.3	135299	PASS
177	176	5	9	6.5	8791	PASS

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62535.D
Acq On : 25 Mar 2009 21:19
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 18 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



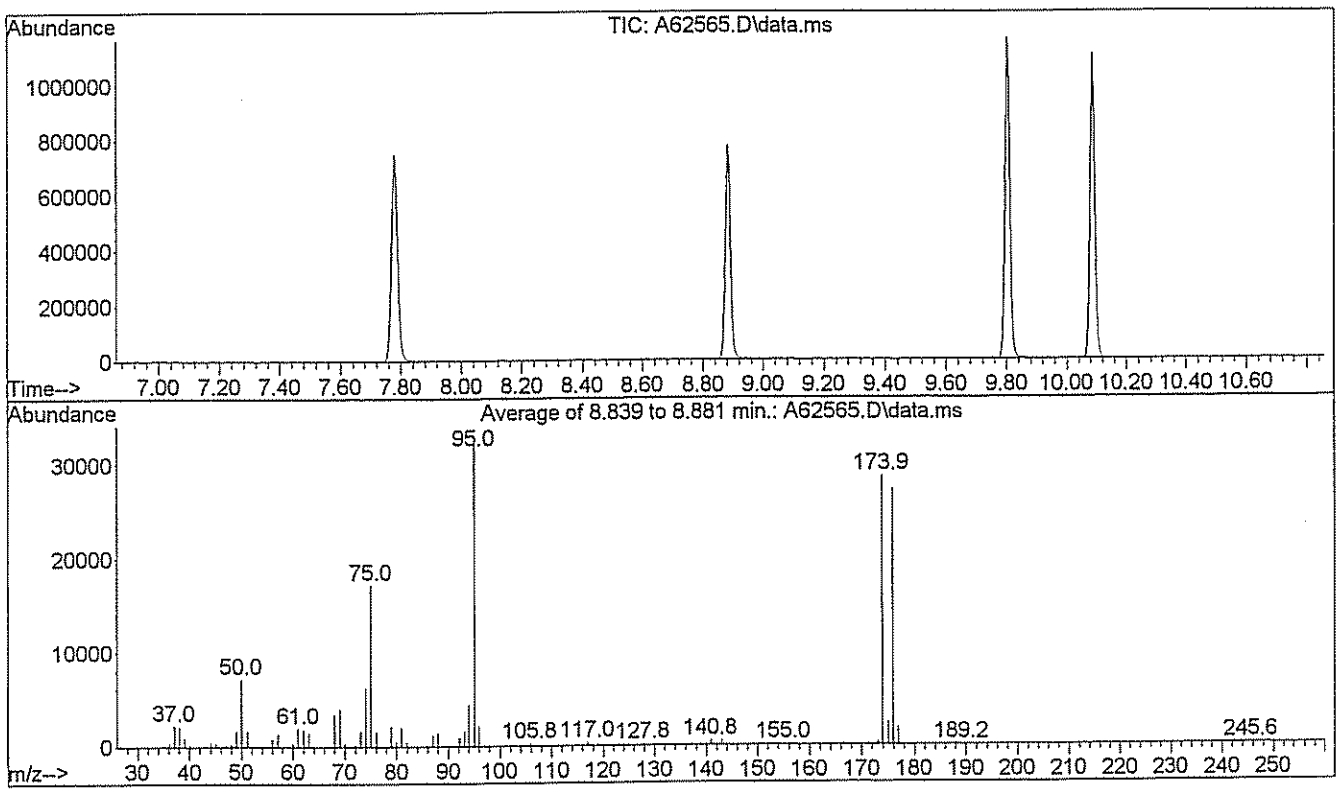
Spectrum Information: Average of 8.876 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	27901	PASS
75	95	30	60	47.5	63379	PASS
95	95	100	100	100.0	133411	PASS
96	95	5	9	6.7	9000	PASS
173	174	0.00	2	1.6	2093	PASS
174	95	50	100	97.8	130485	PASS
175	174	5	9	7.9	10263	PASS
176	174	95	100	98.4	128459	PASS
177	176	5	9	6.0	7688	PASS

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62565.D
Acq On : 26 Mar 2009 8:27
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



Spectrum Information: Average of 8.839 to 8.881 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	7255	PASS
75	95	30	60	53.1	17247	PASS
95	95	100	100	100.0	32507	PASS
96	95	5	9	6.9	2236	PASS
173	174	0.00	2	1.1	322	PASS
174	95	50	100	88.0	28606	PASS
175	174	5	9	8.4	2395	PASS
176	174	95	100	95.3	27273	PASS
177	176	5	9	6.8	1864	PASS

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108853
Sample Volume :	5	Lab File ID :	A62541.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108853
Sample Volume :	5	Lab File ID :	A62541.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108853
Sample Volume :	5	Lab File ID :	A62541.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62541.D
Acq On : 25 Mar 2009 23:20
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 27 15:15:03 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	437432	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	400418	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	437433	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	119909	51.60	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.20%			
54) Toluene-d8	6.142	98	481404	51.88	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.76%			
76) 4-Bromofluorobenzene	8.881	95	199802	48.46	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.92%			
92) 1,2-Dichlorobenzene-d4	10.085	152	222355	54.98	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 109.96%			

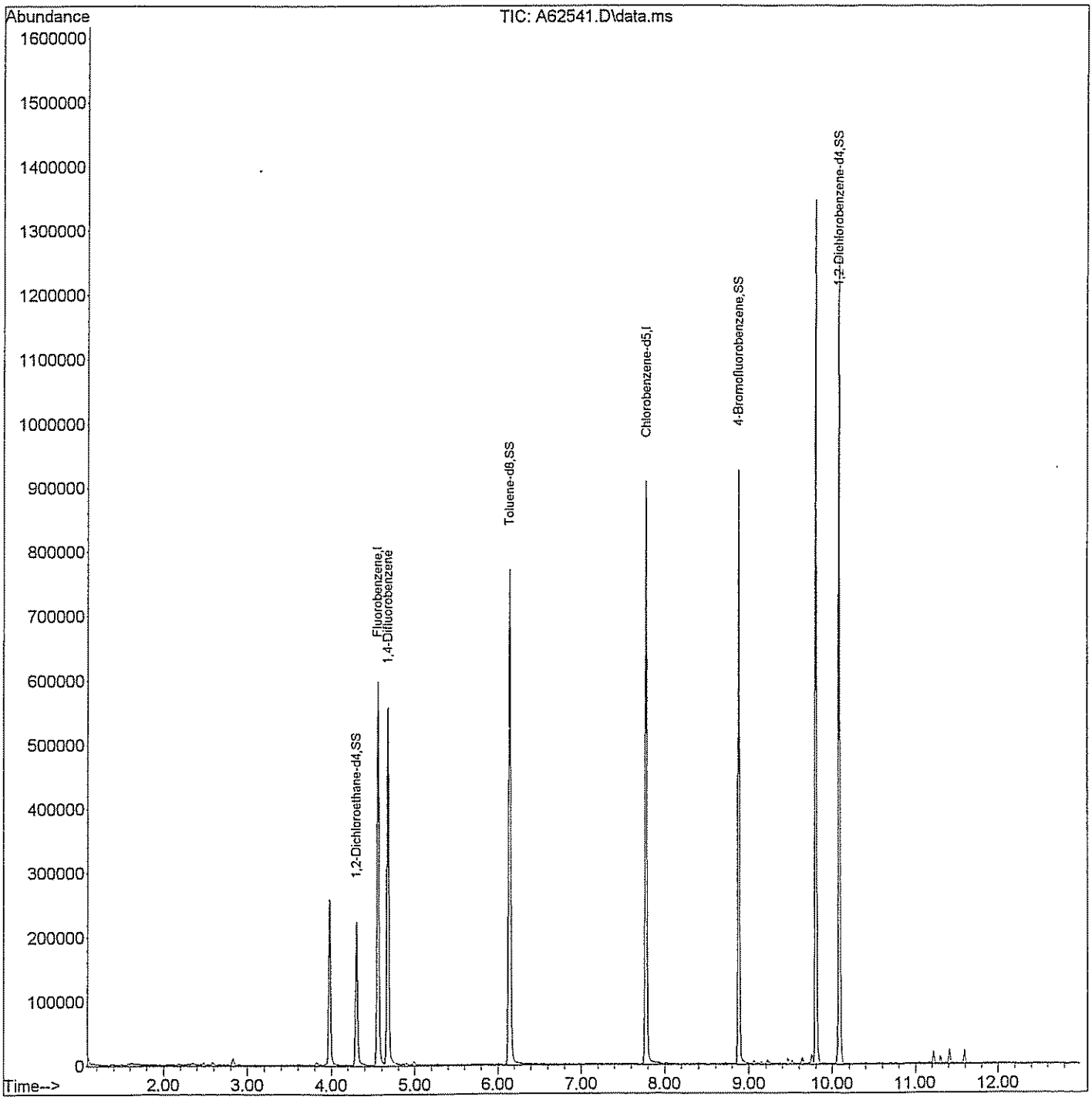
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62541.D
Acq On : 25 Mar 2009 23:20
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 27 15:15:03 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108855
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108855
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108855
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62571.D
Acq On : 26 Mar 2009 11:13
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 17:34:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

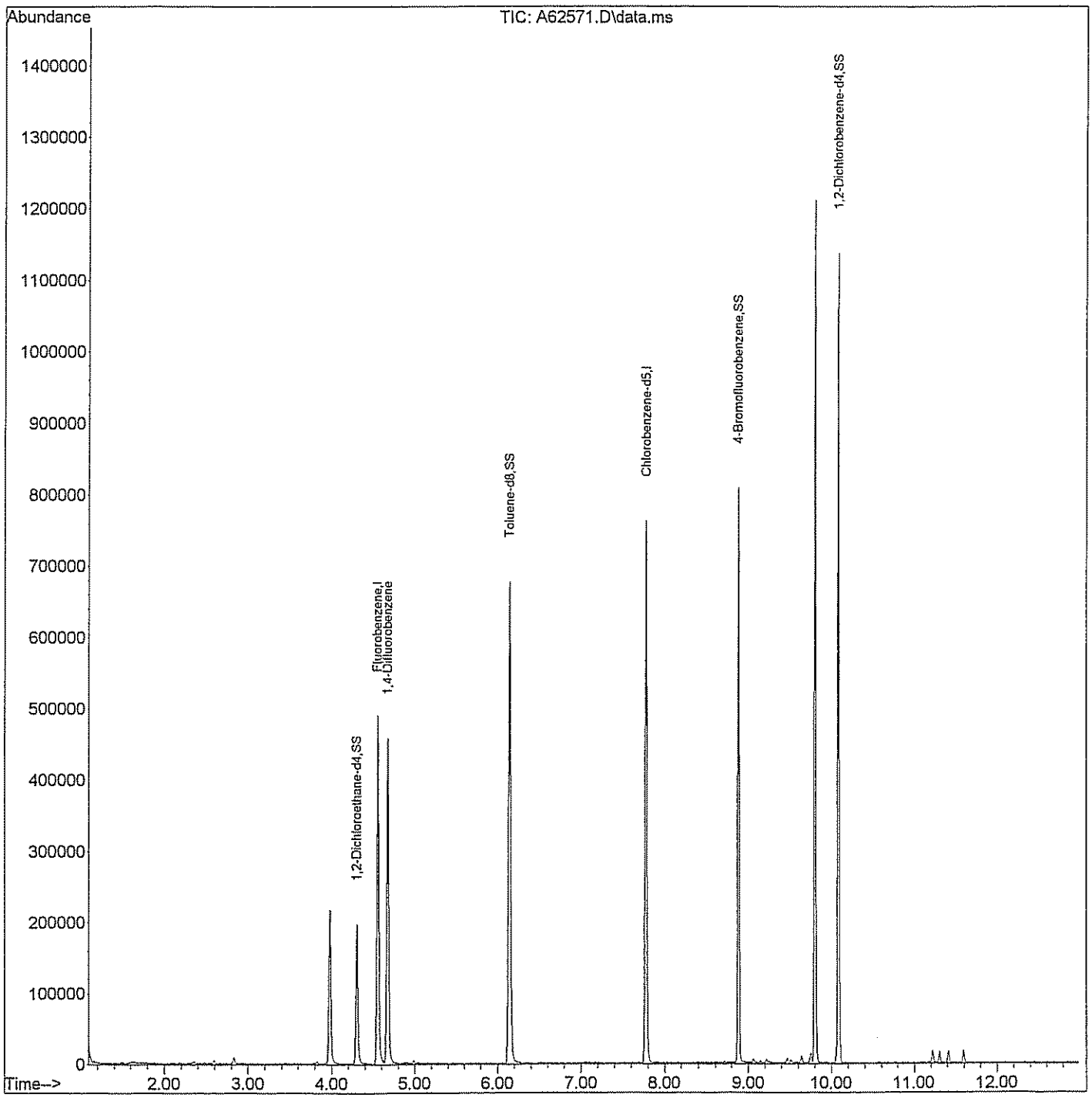
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	365167	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	334290	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	376962	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	97655	50.34	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.68%			
54) Toluene-d8	6.142	98	410331	52.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 105.94%			
76) 4-Bromofluorobenzene	8.881	95	162487	45.73	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 91.46%			
92) 1,2-Dichlorobenzene-d4	10.085	152	197270	56.61	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 113.22%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62571.D
Acq On : 26 Mar 2009 11:13
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 17:34:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MS
Sample Volume :	5	Lab File ID :	A62587.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	68	
79-34-5	1,1,2,2-Tetrachloroethane	52	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	62	
75-35-4	1,1-Dichloroethene	60	
120-82-1	1,2,4-Trichlorobenzene	67	
96-12-8	1,2-Dibromo-3-Chloropropane	47	
95-50-1	1,2-Dichlorobenzene	66	
107-06-2	1,2-Dichloroethane	56	
78-87-5	1,2-Dichloropropane	56	
541-73-1	1,3-Dichlorobenzene	69	
106-46-7	1,4-Dichlorobenzene	68	
78-93-3	2-Butanone	93	
591-78-6	2-Hexanone	94	
108-10-1	4-Methyl-2-Pentanone	95	
67-64-1	Acetone	88	
71-43-2	Benzene	53	
75-27-4	Bromodichloromethane	58	
75-25-2	Bromoform	62	
74-83-9	Bromomethane	150	
75-15-0	Carbon Disulfide	51	
56-23-5	Carbon Tetrachloride	78	
108-90-7	Chlorobenzene	220	E
75-00-3	Chloroethane	120	
67-66-3	Chloroform	60	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	61	
124-48-1	Dibromochloromethane	59	
75-71-8	Dichlorodifluoromethane	70	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MS
Sample Volume :	5	Lab File ID :	A62587.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	54	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	84	
98-82-8	Isopropylbenzene	59	
79-20-9	Methyl Acetate	54	
108-87-2	Methylcyclohexane	78	
75-09-2	Methylene Chloride	51	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	69	
108-88-3	Toluene	64	
1330-20-7	Total Xylenes	170	
79-01-6	Trichloroethene	53	
75-69-4	Trichlorofluoromethane	68	
75-01-4	Vinyl Chloride	50	
156-59-2	cis-1,2-Dichloroethene	58	
10061-01-5	cis-1,3-Dichloropropene	57	
1634-04-4	tert-butyl methyl ether	63	
156-60-5	trans-1,2-dichloroethene	62	
10061-02-6	trans-1,3-dichloropropene	60	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62587.D
Acq On : 26 Mar 2009 17:10
Operator : SM
Sample : 903192-001MS
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 18:05:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	387739	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	352553	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	414546	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	105533	51.23	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.46%				
54) Toluene-d8	6.142	98	444624	54.43	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 108.86%				
76) 4-Bromofluorobenzene	8.881	95	188241	48.17	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.34%				
92) 1,2-Dichlorobenzene-d4	10.085	152	225361	58.80	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	47877	69.69	ug/L		97
3) Chloromethane	1.327	50	62639	46.34	ug/L		98
4) Vinyl chloride	1.392	62	80251	50.02	ug/L		100
5) Bromomethane	1.616	94	171281	151.94	ug/L		89
6) Chloroethane	1.681	64	130733	116.06	ug/L		96
7) Trichlorofluoromethane	1.830	101	160467	68.37	ug/L		97
8) Ethyl Ether	2.044	59	72502	52.57	ug/L		95
9) Freon 113	2.178	101	102597	83.61	ug/L		92
10) Acrolein	2.189	56	65063	234.61	ug/L	#	74
11) Tert-Butyl alcohol	2.676	59	184495	1172.38	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	85122	60.44	ug/L		87
13) Iodomethane	2.328	142	80934	49.41	ug/L		94
14) Acetonitrile	2.478	40	730887	704.20	ug/L	#	1
15) Methylene chloride	2.590	84	93896	51.37	ug/L		98
16) Trans-1,2-dichloroethene	2.750	96	100085	61.88	ug/L		83
17) Isopropyl ether	3.093	45	339995	54.02	ug/L		98
18) 1,1-Dichloroethane	3.109	63	179242	61.83	ug/L		96
19) Acetone	2.296	43	58392	88.20	ug/L		92
20) Methyl Acetate	4.264	43	98993	53.50	ug/L	#	100
21) MTBE	2.740	73	264889	62.72	ug/L		100
22) Carbon disulfide	2.349	76	247768	50.61	ug/L		100
24) Acrylonitrile	2.831	53	135430	276.06	ug/L		99
25) Chloroprene	3.146	53	155495	56.15	ug/L		90
26) n-Heptane	4.553	71	2336	1.65	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	134886	55.61	ug/L	#	67
28) Cis-1,2-dichloroethene	3.574	96	113996	58.07	ug/L		98

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62587.D
Acq On : 26 Mar 2009 17:10
Operator : SM
Sample : 903192-001MS
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 18:05:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	224570m	108.08 ug/L		
30) Propionitrile	3.735	54	127613	526.80 ug/L		97
31) Bromochloromethane	3.783	128	65062	76.83 ug/L	#	63
32) Tetrahydrofuran	3.794	72	23195	58.32 ug/L	#	22
33) Chloroform	3.836	83	198882	60.17 ug/L		99
34) Cyclohexane	3.933	56	175987	61.14 ug/L		88
35) 1,1,1-Trichloroethane	3.954	97	167671	67.96 ug/L		100
36) Carbon tetrachloride	4.061	117	165669	78.44 ug/L		100
37) Methacrylonitrile	3.826	41	793102	601.68 ug/L	#	22
38) Methylcyclohexane	4.992	83	205673	78.40 ug/L		88
39) Isobutyl Alcohol	4.264	43	98993	861.12 ug/L		95
42) 2-Butanone	3.612	43	107470	93.45 ug/L		96
43) 1,1-Dichloropropene	4.099	75	137280	57.44 ug/L		95
44) Vinyl Acetate	3.136	43	98087	36.48 ug/L	#	93
45) Benzene	4.280	78	395889	53.05 ug/L		100
46) 1,2-Dichloroethane	4.371	62	131258	56.11 ug/L	#	87
47) Trichloroethene	4.880	95	102460	53.47 ug/L	#	68
48) 1,2-Dichloropropane	5.163	63	106932	55.93 ug/L		99
49) Methyl methacrylate	5.259	69	73946	53.41 ug/L		96
50) Dibromomethane	5.276	93	69628	59.20 ug/L		99
51) Bromodichloromethane	5.431	83	145797	58.41 ug/L	#	99
52) 2-Chloroethylvinyl ether	6.217	63	47270	62.09 ug/L	#	49
53) Cis-1,3-dichloropropene	5.912	75	172867	57.47 ug/L		95
55) Toluene	6.217	92	311350	63.66 ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	164799	60.47 ug/L		95
57) Ethyl methacrylate	6.618	69	146201	59.74 ug/L		98
58) 1,1,2-Trichloroethane	6.773	83	90494	61.66 ug/L		93
60) 4-Methyl-2-pentanone	6.094	43	229083	94.76 ug/L		97
61) 2-Hexanone	7.062	43	163379	93.62 ug/L		93
62) Tetrachloroethene	6.795	166	164065	68.65 ug/L		98
63) 1,3-Dichloropropane	6.971	76	176987	51.32 ug/L		89
64) Dibromochloromethane	7.185	129	146450	58.65 ug/L		97
65) 1,2-Dibromoethane	7.314	107	109856	51.56 ug/L		98
66) 1-Chlorohexane	7.785	91	185839	51.84 ug/L		94
67) Chlorobenzene	7.811	112	1533270	218.15 ug/L	#	80
68) 1,1,1,2-Tetrachloroethane	7.908	131	163501	64.95 ug/L		94
69) Ethylbenzene	7.897	91	646049	53.69 ug/L		96
70) m,p-Xylene	8.020	106	557237	117.90 ug/L		81
71) o-Xylene	8.394	106	261879	54.68 ug/L		85
72) Xylene (Total)	8.020	106	820040m	168.90 ug/L		
73) Styrene	8.421	104	433465	54.47 ug/L		99
74) Bromoform	8.598	173	96875	62.56 ug/L		97

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62587.D
Acq On : 26 Mar 2009 17:10
Operator : SM
Sample : 903192-001MS
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 18:05:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

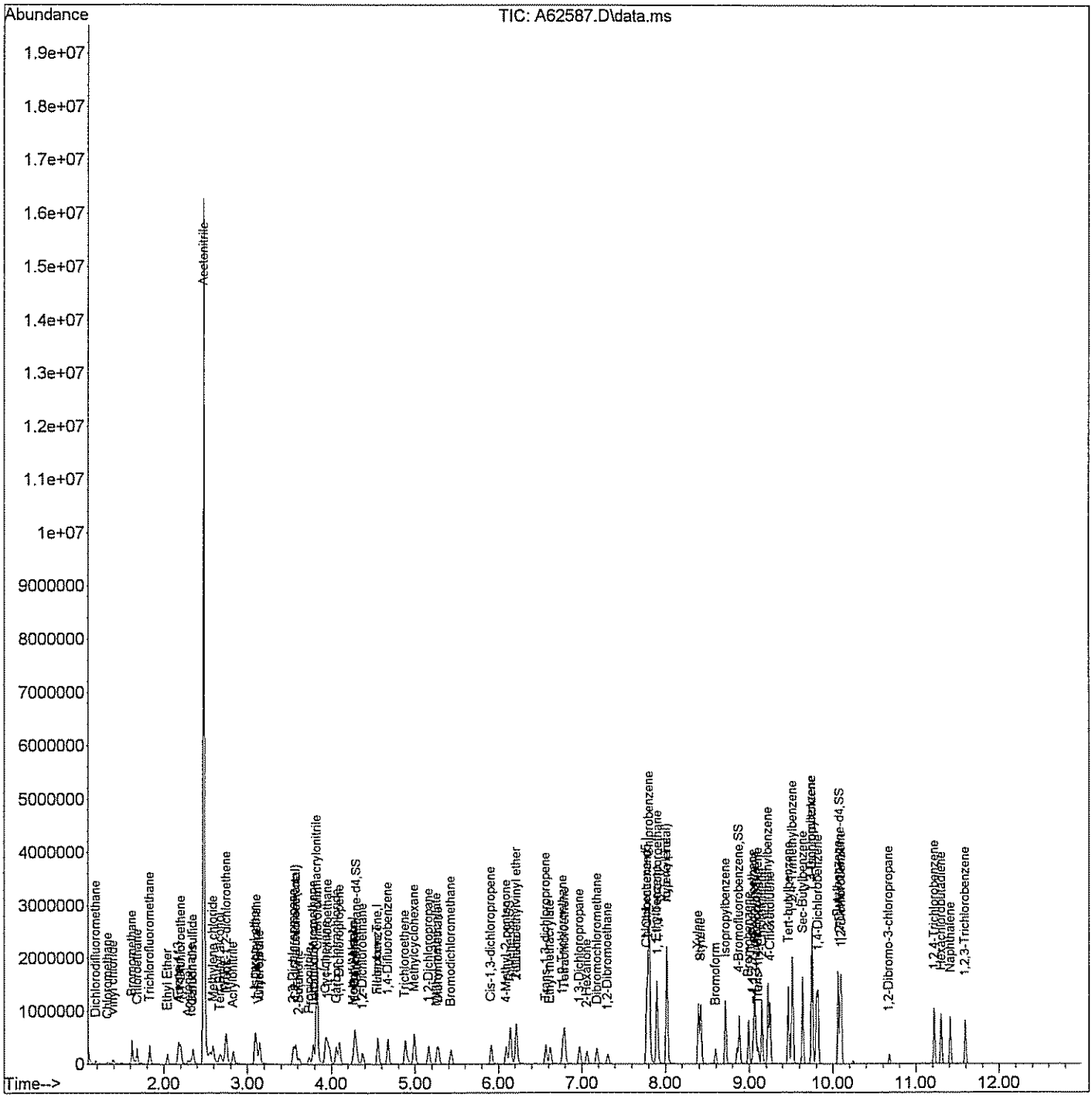
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	600378	58.96	ug/L		96
77) Bromobenzene	8.994	156	184353	66.12	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	141730	51.76	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	46559	57.24	ug/L		94
80) n-Propylbenzene	9.063	91	769138	54.57	ug/L		92
81) Trans-1,4-dichloro-2-b...	9.106	53	41850	61.68	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	184341	61.67	ug/L		85
83) 4-Chlorotoluene	9.250	126	191520	61.73	ug/L		71
84) 1,3,5-Trimethylbenzene	9.224	105	577538	57.72	ug/L		92
85) Tert-butylbenzene	9.470	119	550941	63.37	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	597584	57.49	ug/L		88
88) Sec-Butylbenzene	9.641	105	808321	60.66	ug/L		93
89) 1,3-Dichlorobenzene	9.748	146	406217	69.43	ug/L		97
90) 4-Isopropyltoluene	9.753	119	767839	67.77	ug/L		93
91) 1,4-Dichlorobenzene	9.823	146	399034	67.97	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	371210	66.43	ug/L		99
94) n-Butylbenzene	10.058	91	621656	55.59	ug/L	#	84
95) 1,2-Dibromo-3-chloropr...	10.673	75	21963	46.83	ug/L	#	36
96) 1,2,4-Trichlorobenzene	11.224	180	226592	66.82	ug/L		99
97) Hexachlorobutadiene	11.305	225	114927	72.78	ug/L		98
98) Naphthalene	11.412	128	542948	67.19	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	197544	69.59	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62587.D
Acq On : 26 Mar 2009 17:10
Operator : SM
Sample : 903192-001MS
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 18:05:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MSD
Sample Volume :	5	Lab File ID :	A62589.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	69	
79-34-5	1,1,2,2-Tetrachloroethane	54	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	64	
75-35-4	1,1-Dichloroethene	68	
120-82-1	1,2,4-Trichlorobenzene	72	
96-12-8	1,2-Dibromo-3-Chloropropane	54	
95-50-1	1,2-Dichlorobenzene	68	
107-06-2	1,2-Dichloroethane	55	
78-87-5	1,2-Dichloropropane	60	
541-73-1	1,3-Dichlorobenzene	70	
106-46-7	1,4-Dichlorobenzene	69	
78-93-3	2-Butanone	98	
591-78-6	2-Hexanone	96	
108-10-1	4-Methyl-2-Pentanone	99	
67-64-1	Acetone	93	
71-43-2	Benzene	54	
75-27-4	Bromodichloromethane	61	
75-25-2	Bromoform	64	
74-83-9	Bromomethane	100	
75-15-0	Carbon Disulfide	54	
56-23-5	Carbon Tetrachloride	80	
108-90-7	Chlorobenzene	250	E
75-00-3	Chloroethane	95	
67-66-3	Chloroform	62	
74-87-3	Chloromethane	52	
110-82-7	Cyclohexane	63	
124-48-1	Dibromochloromethane	59	
75-71-8	Dichlorodifluoromethane	79	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MSD
Sample Volume :	5	Lab File ID :	A62589.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	53	
106-93-4	Ethylene DiBromide	53	
76-13-1	Freon 113	92	
98-82-8	Isopropylbenzene	60	
79-20-9	Methyl Acetate	56	
108-87-2	Methylcyclohexane	82	
75-09-2	Methylene Chloride	59	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	68	
108-88-3	Toluene	64	
1330-20-7	Total Xylenes	170	
79-01-6	Trichloroethene	57	
75-69-4	Trichlorofluoromethane	110	
75-01-4	Vinyl Chloride	49	
156-59-2	cis-1,2-Dichloroethene	60	
10061-01-5	cis-1,3-Dichloropropene	58	
1634-04-4	tert-butyl methyl ether	67	
156-60-5	trans-1,2-dichloroethene	69	
10061-02-6	trans-1,3-dichloropropene	61	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62589.D
Acq On : 26 Mar 2009 17:51
Operator : SM
Sample : 903192-001MSD
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 18:06:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	385442	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	353248	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	422204	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	110396	53.91	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 107.82%				
54) Toluene-d8	6.142	98	453601	55.42	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 110.84%				
76) 4-Bromofluorobenzene	8.881	95	193018	48.50	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.00%				
92) 1,2-Dichlorobenzene-d4	10.085	152	240349	61.58	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 123.16%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	53726	78.67	ug/L		94
3) Chloromethane	1.322	50	70263	52.29	ug/L		95
4) Vinyl chloride	1.392	62	78172	49.01	ug/L		96
5) Bromomethane	1.616	94	91444	103.07	ug/L		85
6) Chloroethane	1.686	64	106505	95.12	ug/L		100
7) Trichlorofluoromethane	1.830	101	260542	110.80	ug/L		97
8) Ethyl Ether	2.039	59	86813	63.32	ug/L		94
9) Freon 113	2.173	101	112216	92.00	ug/L		90
10) Acrolein	2.184	56	67314	244.18	ug/L	#	74
11) Tert-Butyl alcohol	2.665	59	185809	1187.77	ug/L	#	47
12) 1,1-Dichloroethene	2.200	96	95940	68.53	ug/L		84
13) Iodomethane	2.328	142	99655	61.20	ug/L		99
14) Acetonitrile	2.478	40	789154	762.03	ug/L	#	1
15) Methylene chloride	2.590	84	106995	58.65	ug/L		95
16) Trans-1,2-dichloroethene	2.751	96	111067	69.08	ug/L		80
17) Isopropyl ether	3.088	45	352815	56.39	ug/L		96
18) 1,1-Dichloroethane	3.104	63	185435	64.35	ug/L		96
19) Acetone	2.296	43	61381	93.21	ug/L		92
20) Methyl Acetate	4.265	43	101199	55.56	ug/L	#	100
21) MTBE	2.735	73	282867	67.38	ug/L		100
22) Carbon disulfide	2.349	76	265415	54.48	ug/L		100
24) Acrylonitrile	2.831	53	140611	288.33	ug/L		100
25) Chloroprene	3.141	53	153157	55.64	ug/L		87
26) n-Heptane	4.553	71	3384	2.40	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	147340	61.11	ug/L	#	65
28) Cis-1,2-dichloroethene	3.574	96	117399	60.16	ug/L		99

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62589.D
Acq On : 26 Mar 2009 17:51
Operator : SM
Sample : 903192-001MSD
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 18:06:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	232973m	112.79 ug/L		
30) Propionitrile	3.730	54	135727	563.64 ug/L		98
31) Bromochloromethane	3.778	128	63989	76.01 ug/L	#	68
32) Tetrahydrofuran	3.788	72	23347	59.06 ug/L	#	1
33) Chloroform	3.831	83	205397	62.51 ug/L		98
34) Cyclohexane	3.933	56	180990	63.27 ug/L	#	87
35) 1,1,1-Trichloroethane	3.954	97	168412	68.67 ug/L		97
36) Carbon tetrachloride	4.061	117	168292	80.15 ug/L		100
37) Methacrylonitrile	3.826	41	829281	632.87 ug/L	#	23
38) Methylcyclohexane	4.992	83	213003	81.68 ug/L		88
39) Isobutyl Alcohol	4.265	43	101199	885.55 ug/L		92
42) 2-Butanone	3.607	43	113109	98.16 ug/L	#	91
43) 1,1-Dichloropropene	4.099	75	137937	57.60 ug/L		98
44) Vinyl Acetate	3.130	43	86508	32.11 ug/L	#	92
45) Benzene	4.281	78	405401	54.22 ug/L		100
46) 1,2-Dichloroethane	4.372	62	129853m	55.40 ug/L		
47) Trichloroethene	4.885	95	109045	56.79 ug/L	#	73
48) 1,2-Dichloropropane	5.158	63	114725	59.88 ug/L		99
49) Methyl methacrylate	5.260	69	77238	55.67 ug/L		98
50) Dibromomethane	5.276	93	74563	63.27 ug/L		100
51) Bromodichloromethane	5.431	83	152518	60.98 ug/L	#	99
52) 2-Chloroethylvinyl ether	6.212	63	49304	64.64 ug/L	#	49
53) Cis-1,3-dichloropropene	5.912	75	173777	57.66 ug/L		94
55) Toluene	6.217	92	316077	64.50 ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	167489	61.34 ug/L		97
57) Ethyl methacrylate	6.624	69	147068	59.98 ug/L		97
58) 1,1,2-Trichloroethane	6.774	83	91416	62.17 ug/L		89
60) 4-Methyl-2-pentanone	6.094	43	244637	99.36 ug/L		97
61) 2-Hexanone	7.062	43	171149	96.30 ug/L		96
62) Tetrachloroethene	6.790	166	166493	68.41 ug/L		99
63) 1,3-Dichloropropane	6.971	76	177676	50.58 ug/L		90
64) Dibromochloromethane	7.180	129	149847	58.92 ug/L		96
65) 1,2-Dibromoethane	7.314	107	115170	53.07 ug/L		99
66) 1-Chlorohexane	7.785	91	192528	52.73 ug/L		92
67) Chlorobenzene	7.811	112	1766895	246.83 ug/L	#	80
68) 1,1,1,2-Tetrachloroethane	7.908	131	161407	62.95 ug/L		98
69) Ethylbenzene	7.897	91	650954	53.12 ug/L		95
70) m,p-Xylene	8.020	106	561366	116.62 ug/L		84
71) o-Xylene	8.395	106	267176	54.78 ug/L		87
72) Xylene (Total)	8.020	106	832867m	168.43 ug/L		
73) Styrene	8.421	104	440340	54.33 ug/L		100
74) Bromoform	8.598	173	100885	63.97 ug/L		98

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62589.D
Acq On : 26 Mar 2009 17:51
Operator : SM
Sample : 903192-001MSD
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

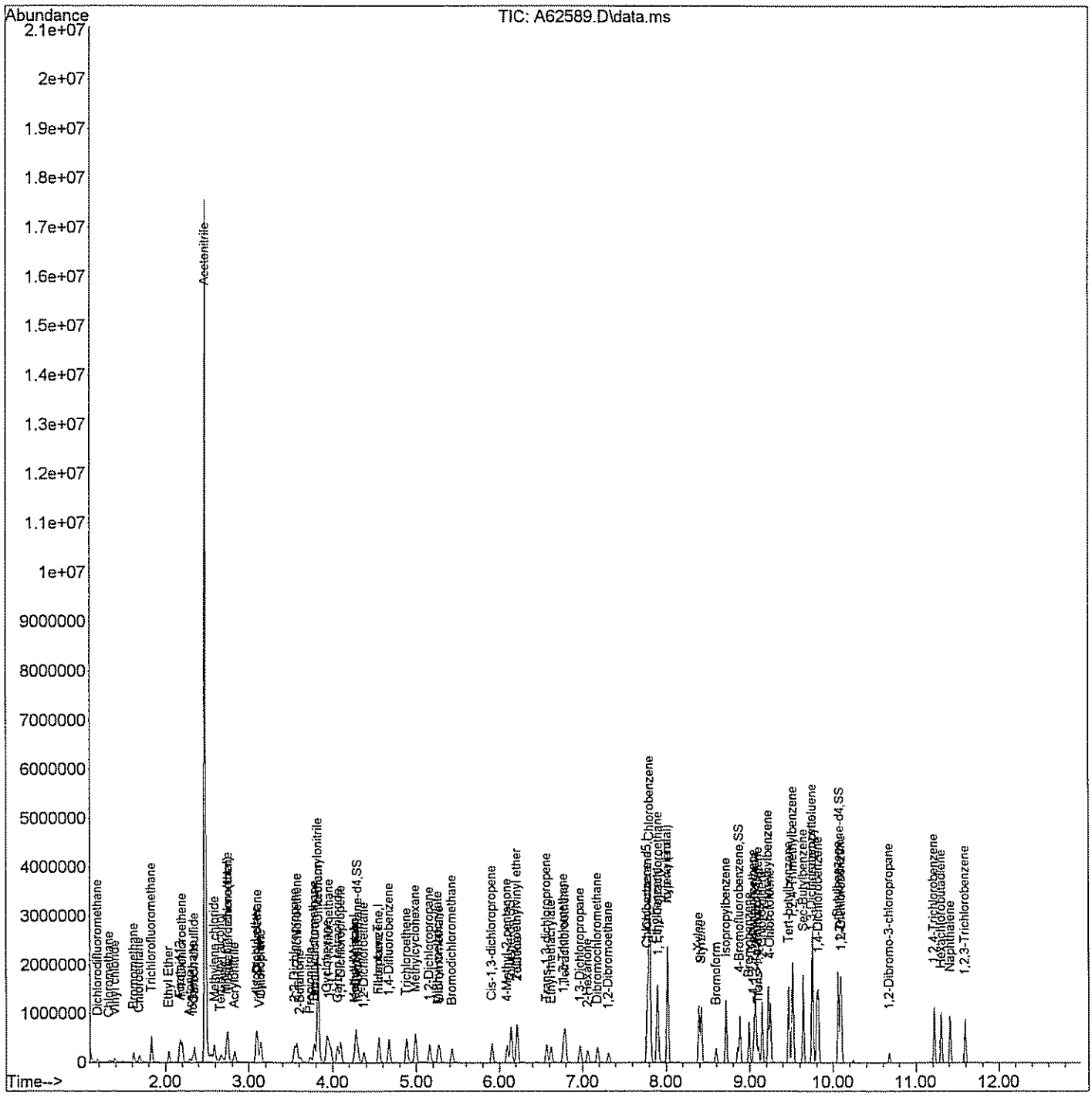
Quant Time: Mar 27 18:06:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	622540	60.02	ug/L		96
77) Bromobenzene	8.994	156	186666	65.74	ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.047	83	149492	53.60	ug/L		99
79) 1,2,3-Trichloropropane	9.085	110	47107	56.86	ug/L		98
80) n-Propylbenzene	9.063	91	788302	54.91	ug/L		92
81) Trans-1,4-dichloro-2-b...	9.106	53	42177	61.04	ug/L	#	23
82) 2-Chlorotoluene	9.149	126	194782	63.98	ug/L	#	83
83) 4-Chlorotoluene	9.245	126	201174	63.66	ug/L		70
84) 1,3,5-Trimethylbenzene	9.224	105	597825	58.67	ug/L		93
85) Tert-butylbenzene	9.470	119	584149	65.97	ug/L		93
87) 1,2,4-Trimethylbenzene	9.518	105	626011	59.13	ug/L		89
88) Sec-Butylbenzene	9.641	105	853522	62.89	ug/L		92
89) 1,3-Dichlorobenzene	9.743	146	419765	70.45	ug/L		99
90) 4-Isopropyltoluene	9.753	119	817657	70.85	ug/L		94
91) 1,4-Dichlorobenzene	9.823	146	411784	68.87	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	385661	67.76	ug/L		99
94) n-Butylbenzene	10.058	91	660705	58.01	ug/L	#	85
95) 1,2-Dibromo-3-chloropr...	10.679	75	25869	54.16	ug/L	#	50
96) 1,2,4-Trichlorobenzene	11.219	180	246963	71.51	ug/L		98
97) Hexachlorobutadiene	11.305	225	124923	77.67	ug/L		96
98) Naphthalene	11.412	128	594467	72.23	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	209005	72.29	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62589.D
Acq On : 26 Mar 2009 17:51
Operator : SM
Sample : 903192-001MSD
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 18:06:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108853
Sample Volume :	5	Lab File ID :	A62539.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	56	
71-55-6	1,1,1-Trichloroethane	58	
79-34-5	1,1,2,2-Tetrachloroethane	47	
79-00-5	1,1,2-Trichloroethane	56	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	56	
563-58-6	1,1-Dichloropropene	48	
87-61-6	1,2,3-Trichlorobenzene	63	
96-18-4	1,2,3-Trichloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	51	
96-12-8	1,2-Dibromo-3-Chloropropane	51	
95-50-1	1,2-Dichlorobenzene	56	
107-06-2	1,2-Dichloroethane	50	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	50	
541-73-1	1,3-Dichlorobenzene	59	
142-28-9	1,3-Dichloropropane	47	
106-46-7	1,4-Dichlorobenzene	59	
594-20-7	2,2-Dichloropropane	47	
78-93-3	2-Butanone	85	
95-49-8	2-Chlorotoluene	54	
591-78-6	2-Hexanone	86	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	86	
67-64-1	Acetone	83	
71-43-2	Benzene	46	
108-86-1	Bromobenzene	59	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108853
Sample Volume :	5	Lab File ID :	A62539.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	67	
75-27-4	Bromodichloromethane	48	
75-25-2	Bromoform	54	
74-83-9	Bromomethane	93	
75-15-0	Carbon Disulfide	49	
56-23-5	Carbon Tetrachloride	64	
108-90-7	Chlorobenzene	50	
75-00-3	Chloroethane	79	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	49	
124-48-1	Dibromochloromethane	53	
74-95-3	Dibromomethane	49	
75-71-8	Dichlorodifluoromethane	45	
100-41-4	Ethylbenzene	46	
106-93-4	Ethylene DiBromide	47	
76-13-1	Freon 113	69	
87-68-3	Hexachlorobutadiene	62	
98-82-8	Isopropylbenzene	50	
79-20-9	Methyl Acetate	41	
108-87-2	Methylcyclohexane	53	
75-09-2	Methylene Chloride	47	
91-20-3	Naphthalene	60	
135-98-8	Sec-Butylbenzene	51	
100-42-5	Styrene	49	
127-18-4	Tetrachloroethylene	80	
108-88-3	Toluene	54	
79-01-6	Trichloroethene	48	
75-69-4	Trichlorofluoromethane	77	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108853

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108853
Sample Volume :	5	Lab File ID :	A62539.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	30	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	50	
10061-01-5	cis-1,3-Dichloropropene	47	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	48	
103-65-1	n-Propylbenzene	48	
95-47-6	o-Xylene	49	
98-06-6	tert-Butylbenzene	55	
1634-04-4	tert-butyl methyl ether	59	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	51	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62539.D
Acq On : 25 Mar 2009 22:40
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 15:13:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	458784	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	421034	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	471849	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	130404	53.50	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 107.00%				
54) Toluene-d8	6.142	98	511809	52.46	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.92%				
76) 4-Bromofluorobenzene	8.881	95	217082	48.81	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.62%				
92) 1,2-Dichlorobenzene-d4	10.085	152	252529	57.89	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	36975	45.49	ug/L		97
3) Chloromethane	1.333	50	74470	46.56	ug/L		94
4) Vinyl chloride	1.386	62	82465	43.44	ug/L		98
5) Bromomethane	1.622	94	93266	93.19	ug/L		99
6) Chloroethane	1.686	64	104993	78.78	ug/L		100
7) Trichlorofluoromethane	1.830	101	215322	77.35	ug/L		97
8) Ethyl Ether	2.039	59	88836	54.44	ug/L		95
9) Freon 113	2.173	101	100285	69.07	ug/L		93
10) Acrolein	2.189	56	66732	203.37	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	176189	946.23	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	93987	56.40	ug/L		88
13) Iodomethane	2.328	142	90876	46.89	ug/L		98
14) Acetonitrile	2.478	40	748130	613.65	ug/L	#	1
15) Methylene chloride	2.590	84	101322	47.00	ug/L		96
16) Trans-1,2-dichloroethene	2.751	96	105716	55.24	ug/L		84
17) Isopropyl ether	3.093	45	375936	50.48	ug/L		96
18) 1,1-Dichloroethane	3.104	63	196129	57.18	ug/L		96
19) Acetone	2.296	43	65302	83.42	ug/L		92
20) Methyl Acetate	4.259	43	94308	40.85	ug/L	#	100
21) MTBE	2.735	73	296362	59.31	ug/L		100
22) Carbon disulfide	2.349	76	283226	48.92	ug/L		100
24) Acrylonitrile	2.831	53	131301	226.20	ug/L		94
25) Chloroprene	3.146	53	161089	49.17	ug/L		90
26) n-Heptane	4.553	71	4197	2.51	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	135023	47.05	ug/L	#	77
28) Cis-1,2-dichloroethene	3.574	96	115838	49.87	ug/L		100

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62539.D
Acq On : 25 Mar 2009 22:40
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 15:13:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	227251m	92.43	ug/L		
30) Propionitrile	3.735	54	129551	451.98	ug/L		98
31) Bromochloromethane	3.778	128	67004	66.87	ug/L	#	65
32) Tetrahydrofuran	3.788	72	27966	59.43	ug/L	#	1
33) Chloroform	3.837	83	209911	53.67	ug/L		98
34) Cyclohexane	3.933	56	168885	49.46	ug/L		89
35) 1,1,1-Trichloroethane	3.954	97	170480	58.40	ug/L		97
36) Carbon tetrachloride	4.056	117	161351	64.56	ug/L		98
37) Methacrylonitrile	3.826	41	812223	520.76	ug/L	#	19
38) Methylcyclohexane	4.992	83	163781	52.77	ug/L		88
39) Isobutyl Alcohol	4.259	43	94308	693.33	ug/L		91
42) 2-Butanone	3.612	43	116515	84.83	ug/L		95
43) 1,1-Dichloropropene	4.093	75	137715	48.25	ug/L		96
44) Vinyl Acetate	3.136	43	95322	29.69	ug/L		99
45) Benzene	4.281	78	407079	45.68	ug/L		100
46) 1,2-Dichloroethane	4.372	62	139002	49.75	ug/L		89
47) Trichloroethene	4.880	95	110427	48.25	ug/L	#	75
48) 1,2-Dichloropropane	5.158	63	102788	45.02	ug/L		97
49) Methyl methacrylate	5.260	69	71926	43.50	ug/L		93
50) Dibromomethane	5.281	93	69139	49.22	ug/L		97
51) Bromodichloromethane	5.431	83	142129	47.68	ug/L	#	98
52) 2-Chloroethylvinyl ether	5.778	63	243462	267.80	ug/L		95
53) Cis-1,3-dichloropropene	5.912	75	170389	47.43	ug/L		96
55) Toluene	6.217	92	313625	53.69	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	165053	50.71	ug/L		97
57) Ethyl methacrylate	6.624	69	152302	52.12	ug/L		98
58) 1,1,2-Trichloroethane	6.774	83	97376	55.56	ug/L		88
60) 4-Methyl-2-pentanone	6.094	43	236679	86.02	ug/L		98
61) 2-Hexanone	7.062	43	170779	85.98	ug/L	#	96
62) Tetrachloroethene	6.790	166	219214	80.59	ug/L		99
63) 1,3-Dichloropropane	6.971	76	184462	46.99	ug/L		88
64) Dibromochloromethane	7.185	129	151219	53.20	ug/L		93
65) 1,2-Dibromoethane	7.319	107	114705	47.30	ug/L		95
66) 1-Chlorohexane	7.785	91	178355	43.71	ug/L		93
67) Chlorobenzene	7.806	112	400170	50.02	ug/L		86
68) 1,1,1,2-Tetrachloroethane	7.908	131	159724	55.74	ug/L		99
69) Ethylbenzene	7.897	91	636513	46.48	ug/L		96
70) m,p-Xylene	8.020	106	543649	101.06	ug/L		84
71) o-Xylene	8.394	106	266722	48.93	ug/L		88
72) Xylene (Total)	8.020	106	820580m	148.49	ug/L		
73) Styrene	8.421	104	446168	49.25	ug/L		98
74) Bromoform	8.598	173	95013	53.91	ug/L		100

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62539.D
Acq On : 25 Mar 2009 22:40
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 15:13:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

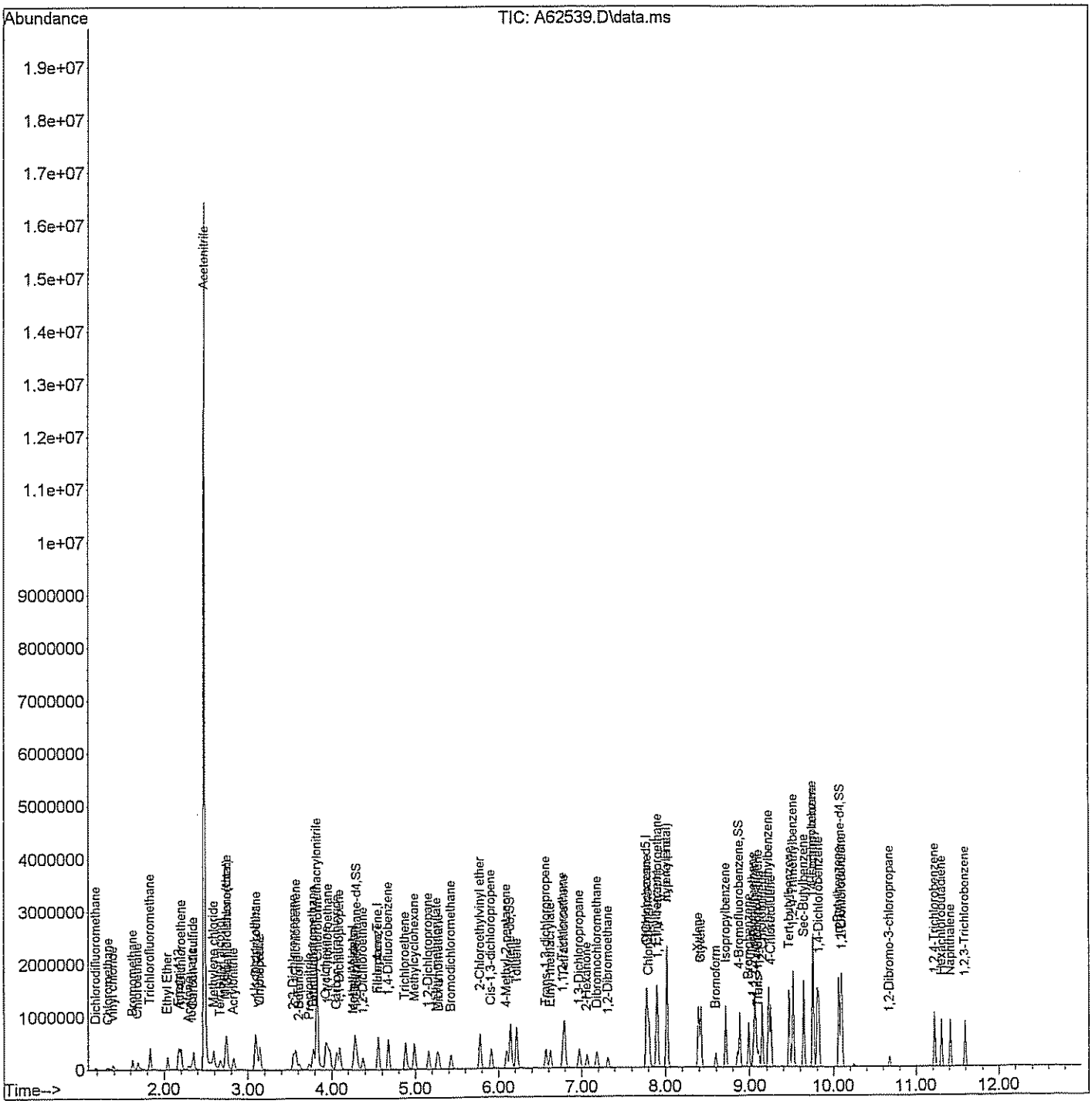
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	585467	50.51	ug/L		96
77) Bromobenzene	8.994	156	186955	58.91	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	146407	46.97	ug/L		97
79) 1,2,3-Trichloropropane	9.085	110	48527	52.42	ug/L		99
80) n-Propylbenzene	9.063	91	771086	48.06	ug/L		94
81) Trans-1,4-dichloro-2-b...	9.106	53	43736	56.66	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	184333	54.18	ug/L		85
83) 4-Chlorotoluene	9.250	126	189452	53.65	ug/L		73
84) 1,3,5-Trimethylbenzene	9.224	105	575979	50.57	ug/L		91
85) Tert-butylbenzene	9.470	119	541424	54.71	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	606818	51.29	ug/L		89
88) Sec-Butylbenzene	9.641	105	778571	51.34	ug/L		93
89) 1,3-Dichlorobenzene	9.748	146	394610	59.26	ug/L		99
90) 4-Isopropyltoluene	9.753	119	739548	57.34	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	393680	58.92	ug/L		97
93) 1,2-Dichlorobenzene	10.101	146	358196	56.31	ug/L		97
94) n-Butylbenzene	10.058	91	609095	47.85	ug/L	#	87
95) 1,2-Dibromo-3-chloropr...	10.679	75	27447	51.42	ug/L	#	67
96) 1,2,4-Trichlorobenzene	11.224	180	225855	58.52	ug/L		99
97) Hexachlorobutadiene	11.305	225	111250	61.89	ug/L		99
98) Naphthalene	11.412	128	549674	59.76	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	202295	62.61	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62539.D
Acq On : 25 Mar 2009 22:40
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

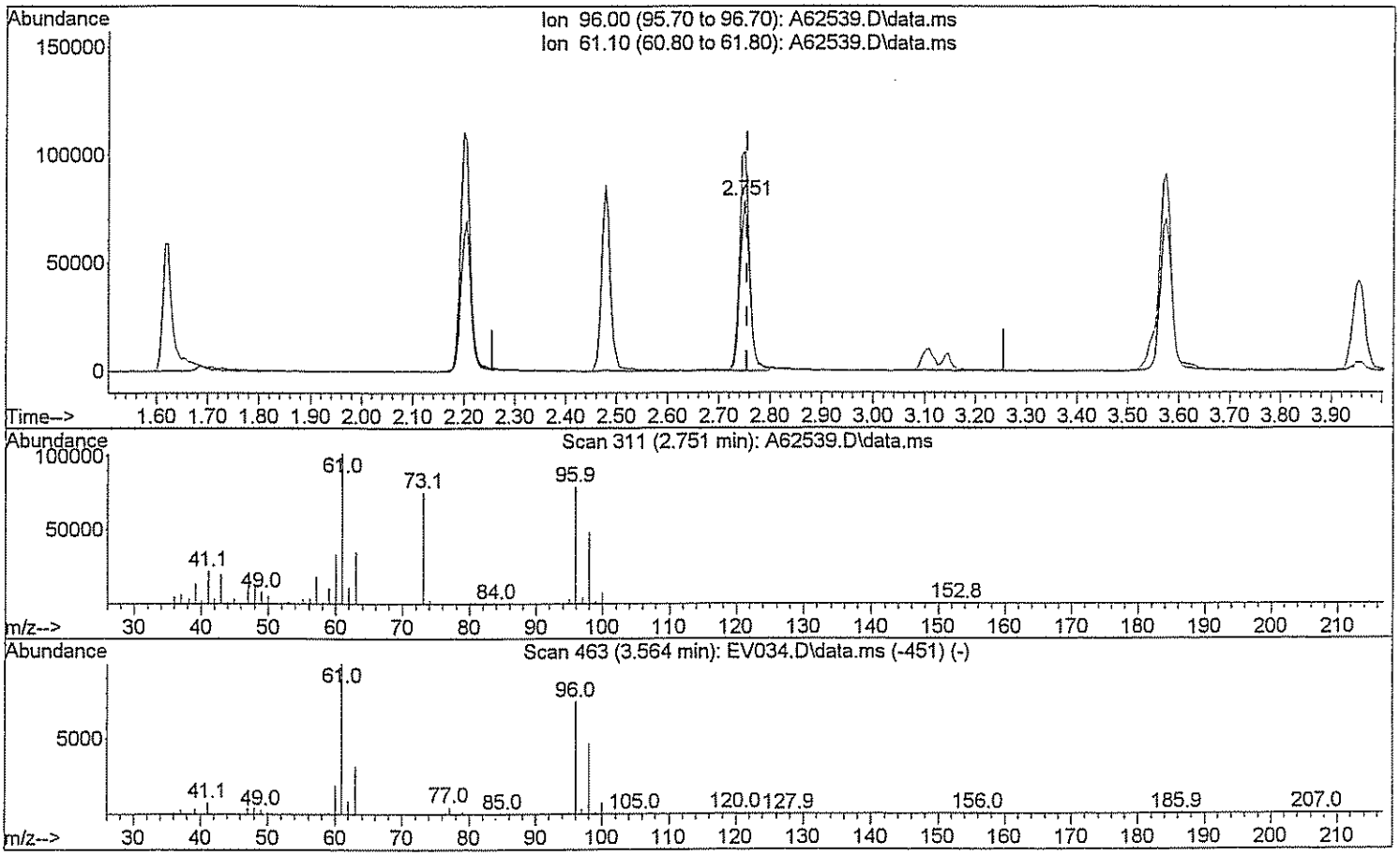
Quant Time: Mar 27 15:13:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62539.D
Acq On : 25 Mar 2009 22:40
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 15:10:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62539.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 43.00 ug/L

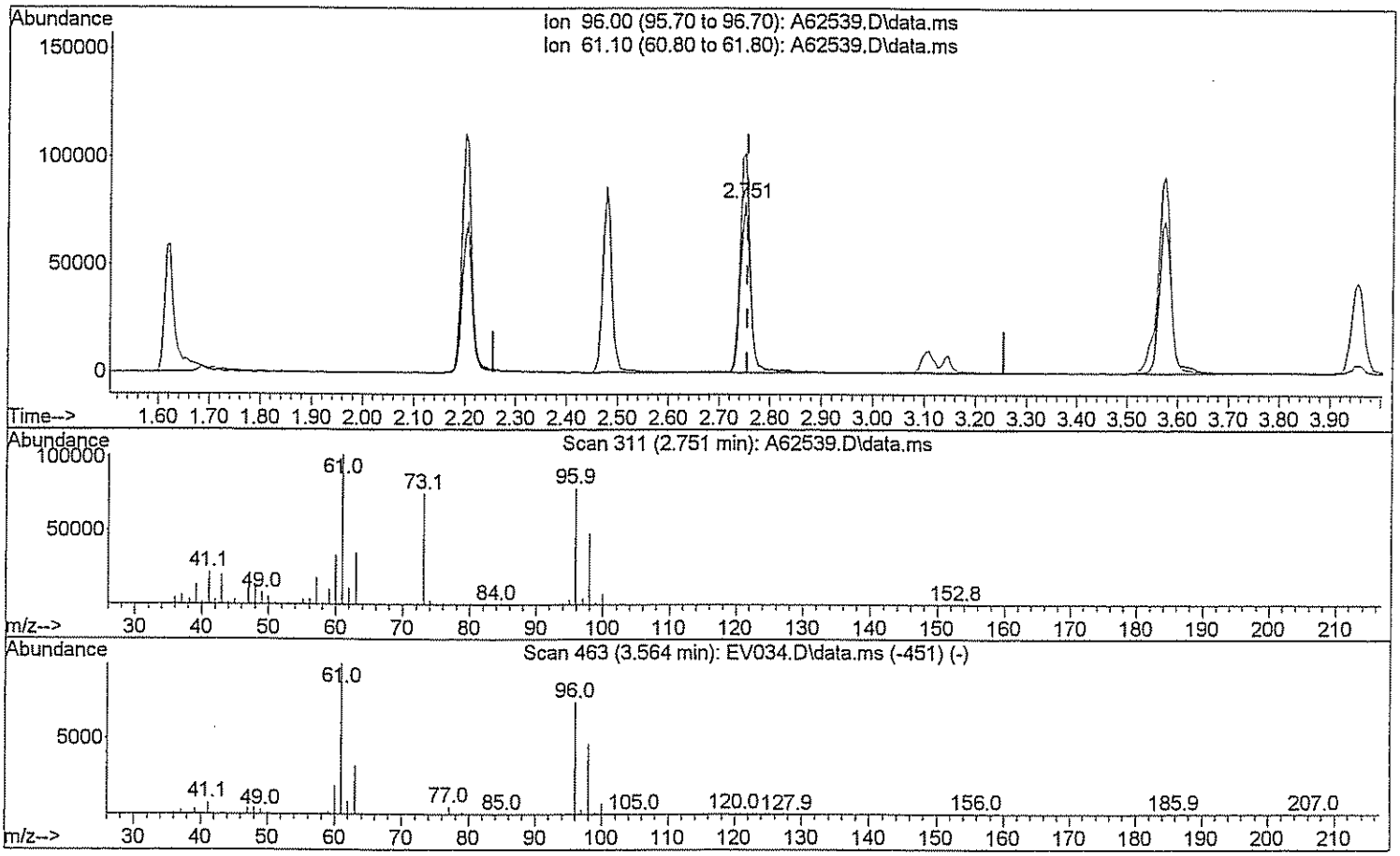
response 105716

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	133.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62539.D
Acq On : 25 Mar 2009 22:40
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 15:10:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62539.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 92.43 ug/L m DMS 3/27/09

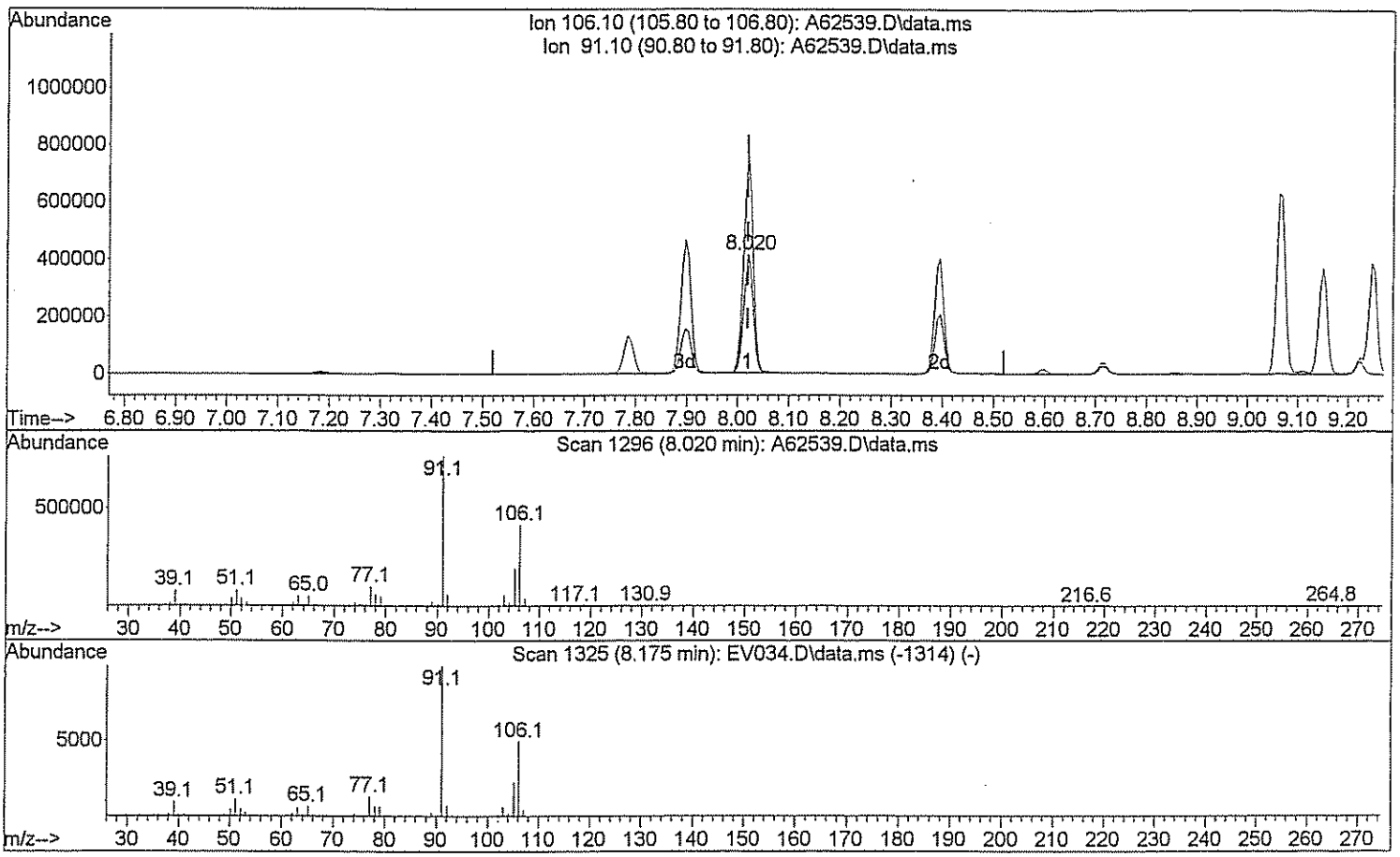
response 227251

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	62.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62539.D
Acq On : 25 Mar 2009 22:40
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 15:10:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62539.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 98.37 ug/L

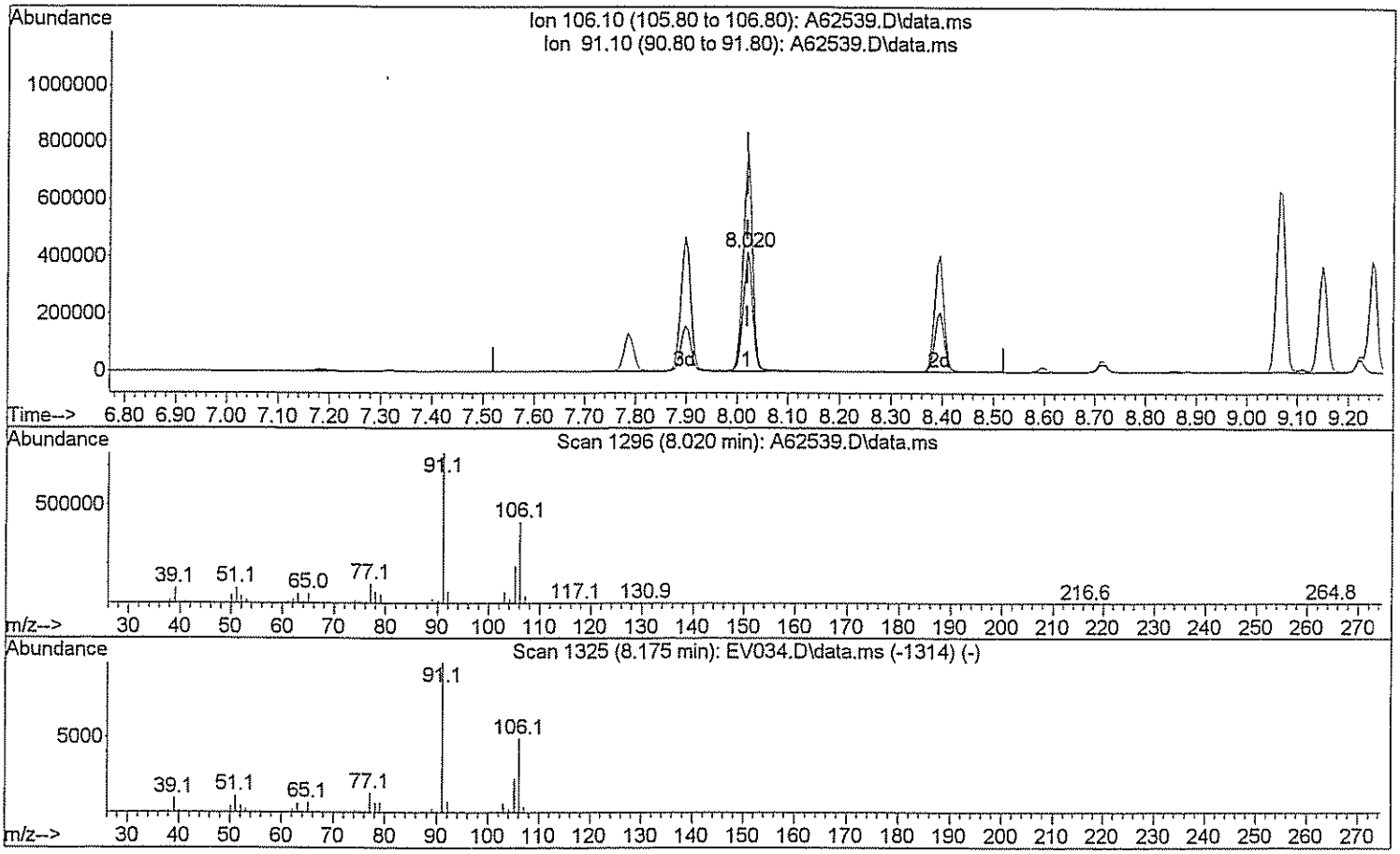
response 543649

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	183.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032509AC1\
Data File : A62539.D
Acq On : 25 Mar 2009 22:40
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 15:10:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62539.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 148.49 ug/L m AM 3/27/09

response 820580

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	121.89#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108855
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	53	
71-55-6	1,1,1-Trichloroethane	55	
79-34-5	1,1,2,2-Tetrachloroethane	42	
79-00-5	1,1,2-Trichloroethane	45	
75-34-3	1,1-Dichloroethane	52	
75-35-4	1,1-Dichloroethene	50	
563-58-6	1,1-Dichloropropene	41	
87-61-6	1,2,3-Trichlorobenzene	56	
96-18-4	1,2,3-Trichloropropane	45	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	49	
96-12-8	1,2-Dibromo-3-Chloropropane	36	
95-50-1	1,2-Dichlorobenzene	55	
107-06-2	1,2-Dichloroethane	41	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	48	
541-73-1	1,3-Dichlorobenzene	57	
142-28-9	1,3-Dichloropropane	43	
106-46-7	1,4-Dichlorobenzene	56	
594-20-7	2,2-Dichloropropane	48	
78-93-3	2-Butanone	65	
95-49-8	2-Chlorotoluene	53	
591-78-6	2-Hexanone	70	
106-43-4	4-Chlorotoluene	53	
99-87-6	4-Isopropyltoluene	56	
108-10-1	4-Methyl-2-Pentanone	76	
67-64-1	Acetone	73	
71-43-2	Benzene	39	
108-86-1	Bromobenzene	55	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108855
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	63	
75-27-4	Bromodichloromethane	45	
75-25-2	Bromoform	51	
74-83-9	Bromomethane	130	
75-15-0	Carbon Disulfide	44	
56-23-5	Carbon Tetrachloride	58	
108-90-7	Chlorobenzene	48	
75-00-3	Chloroethane	47	
67-66-3	Chloroform	50	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	46	
124-48-1	Dibromochloromethane	48	
74-95-3	Dibromomethane	47	
75-71-8	Dichlorodifluoromethane	46	
100-41-4	Ethylbenzene	44	
106-93-4	Ethylene DiBromide	42	
76-13-1	Freon 113	62	
87-68-3	Hexachlorobutadiene	57	
98-82-8	Isopropylbenzene	48	
79-20-9	Methyl Acetate	34	
108-87-2	Methylcyclohexane	58	
75-09-2	Methylene Chloride	44	
91-20-3	Naphthalene	50	
135-98-8	Sec-Butylbenzene	49	
100-42-5	Styrene	46	
127-18-4	Tetrachloroethylene	56	
108-88-3	Toluene	48	
79-01-6	Trichloroethene	44	
75-69-4	Trichlorofluoromethane	50	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108855

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108855
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	27	
75-01-4	Vinyl Chloride	42	
156-59-2	cis-1,2-Dichloroethene	46	
10061-01-5	cis-1,3-Dichloropropene	45	
136777-61-2	m,p-Xylene	97	
104-51-8	n-Butylbenzene	46	
103-65-1	n-Propylbenzene	46	
95-47-6	o-Xylene	47	
98-06-6	tert-Butylbenzene	52	
1634-04-4	tert-butyl methyl ether	52	
156-60-5	trans-1,2-dichloroethene	50	
10061-02-6	trans-1,3-dichloropropene	44	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 17:33:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	430569	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	439401	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	456605	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	118918	51.99	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.98%				
54) Toluene-d8	6.142	98	505240	49.62	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 99.24%				
76) 4-Bromofluorobenzene	8.881	95	213084	49.51	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.02%				
92) 1,2-Dichlorobenzene-d4	10.085	152	255357	60.49	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 120.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	34930	45.79	ug/L		99
3) Chloromethane	1.333	50	65041	43.33	ug/L		98
4) Vinyl chloride	1.397	62	75075	42.14	ug/L		98
5) Bromomethane	1.616	94	143180	127.66	ug/L		92
6) Chloroethane	1.686	64	58634	46.88	ug/L		92
7) Trichlorofluoromethane	1.836	101	128946	49.85	ug/L		98
8) Ethyl Ether	2.044	59	68783	44.91	ug/L		93
9) Freon 113	2.178	101	84334	61.89	ug/L		92
10) Acrolein	2.189	56	60974	198.00	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	147511	844.12	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	78034	49.90	ug/L		85
13) Iodomethane	2.333	142	151176	83.11	ug/L		97
14) Acetonitrile	2.483	40	633478	556.88	ug/L	#	1
15) Methylene chloride	2.590	84	89385	44.28	ug/L		91
16) Trans-1,2-dichloroethene	2.756	96	90710	50.50	ug/L		82
17) Isopropyl ether	3.093	45	322269	46.11	ug/L		96
18) 1,1-Dichloroethane	3.109	63	167902	52.16	ug/L		98
19) Acetone	2.296	43	53834	73.40	ug/L		94
20) Methyl Acetate	4.265	43	76389	34.52	ug/L	#	100
21) MTBE	2.740	73	245990	52.45	ug/L		100
22) Carbon disulfide	2.355	76	239730	44.19	ug/L		100
24) Acrylonitrile	2.831	53	115626	212.25	ug/L		98
25) Chloroprene	3.146	53	141107	45.89	ug/L		93
26) n-Heptane	4.553	71	2827	1.80	ug/L	#	1
27) 2,2-Dichloropropane	3.553	77	129592	48.12	ug/L	#	77
28) Cis-1,2-dichloroethene	3.580	96	101521	46.57	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 17:33:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	197153m	85.44 ug/L		
30) Propionitrile	3.735	54	110111	409.34 ug/L		98
31) Bromochloromethane	3.783	128	59339	63.10 ug/L	#	63
32) Tetrahydrofuran	3.788	72	18482	41.85 ug/L	#	22
33) Chloroform	3.837	83	181818	49.53 ug/L		98
34) Cyclohexane	3.938	56	146066	45.53 ug/L		87
35) 1,1,1-Trichloroethane	3.960	97	149652	54.62 ug/L		98
36) Carbon tetrachloride	4.061	117	136711	58.29 ug/L		97
37) Methacrylonitrile	3.826	41	660394	451.16 ug/L	#	24
38) Methylcyclohexane	4.992	83	167562	57.52 ug/L		88
39) Isobutyl Alcohol	4.265	43	76389	598.39 ug/L		94
42) 2-Butanone	3.617	43	93505	65.24 ug/L		97
43) 1,1-Dichloropropene	4.099	75	123522	41.47 ug/L		100
44) Vinyl Acetate	3.136	43	90183	26.91 ug/L		96
45) Benzene	4.281	78	360982	38.81 ug/L		100
46) 1,2-Dichloroethane	4.377	62	118391	40.61 ug/L		90
47) Trichloroethene	4.885	95	106436	44.57 ug/L	#	74
48) 1,2-Dichloropropane	5.158	63	107165	44.97 ug/L		98
49) Methyl methacrylate	5.265	69	67055	38.86 ug/L		96
50) Dibromomethane	5.281	93	68369	46.64 ug/L		99
51) Bromodichloromethane	5.431	83	140914	45.30 ug/L	#	99
52) 2-Chloroethylvinyl ether	5.779	63	69887	73.66 ug/L		93
53) Cis-1,3-dichloropropene	5.912	75	167476	44.67 ug/L		96
55) Toluene	6.217	92	289609	47.51 ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	150527	44.32 ug/L		98
57) Ethyl methacrylate	6.624	69	131013	42.96 ug/L		99
58) 1,1,2-Trichloroethane	6.774	83	82824	45.28 ug/L		91
60) 4-Methyl-2-pentanone	6.094	43	201252	75.58 ug/L		97
61) 2-Hexanone	7.062	43	134742	70.10 ug/L		97
62) Tetrachloroethene	6.795	166	146723	55.74 ug/L		96
63) 1,3-Dichloropropane	6.971	76	162074	42.66 ug/L		90
64) Dibromochloromethane	7.185	129	132988	48.35 ug/L		97
65) 1,2-Dibromoethane	7.314	107	98534	41.99 ug/L		96
66) 1-Chlorohexane	7.790	91	162772	41.23 ug/L		90
67) Chlorobenzene	7.806	112	371150	47.94 ug/L		84
68) 1,1,1,2-Tetrachloroethane	7.908	131	147606	53.23 ug/L		95
69) Ethylbenzene	7.897	91	585935	44.21 ug/L		97
70) m,p-Xylene	8.020	106	507448	97.48 ug/L		82
71) o-Xylene	8.395	106	247016	46.83 ug/L		85
72) Xylene (Total)	8.020	106	755699m	141.31 ug/L		
73) Styrene	8.421	104	405024	46.20 ug/L		97
74) Bromoform	8.598	173	86539	50.74 ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

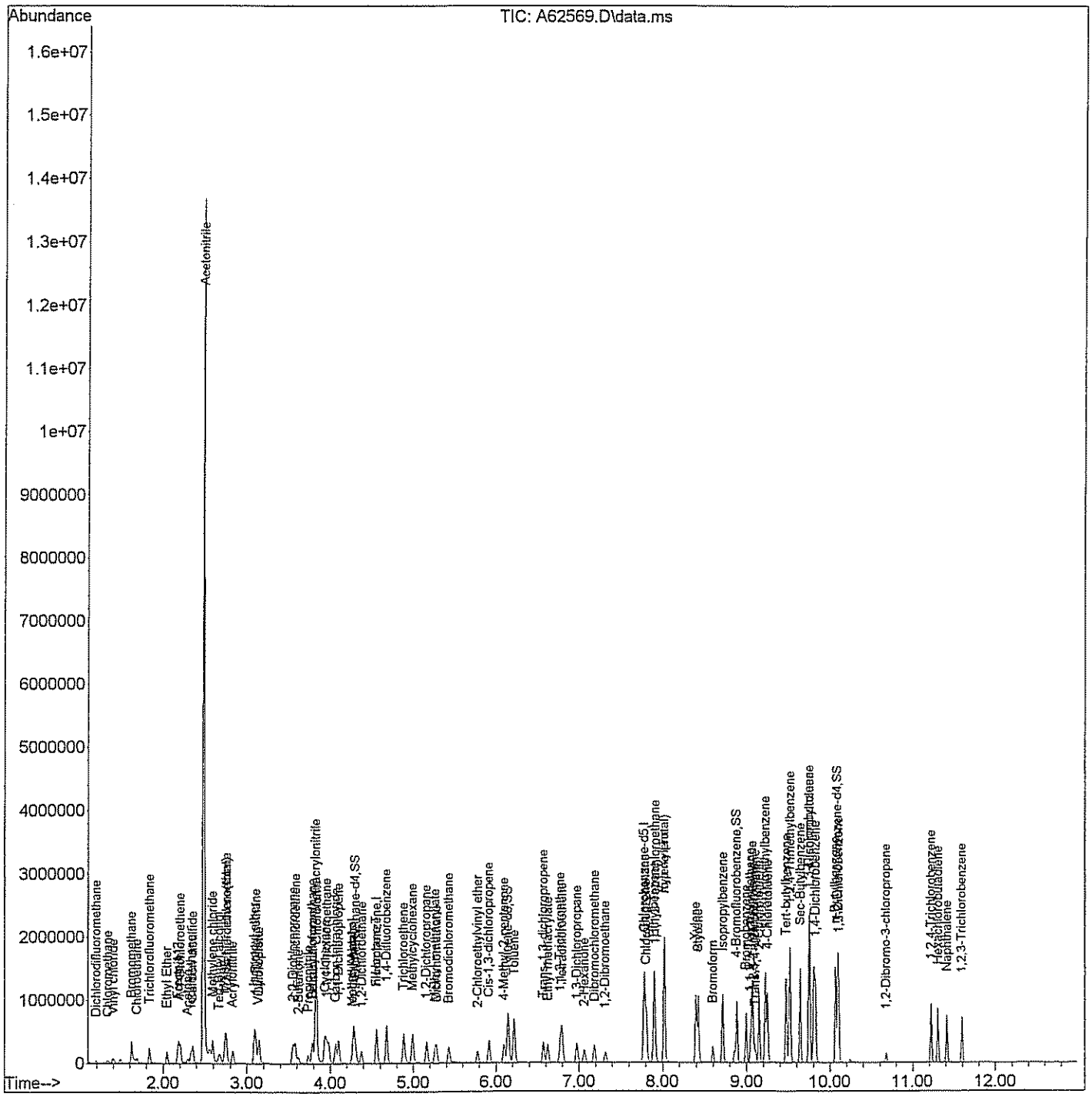
Quant Time: Mar 27 17:33:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	535340	47.73	ug/L		96
77) Bromobenzene	8.994	156	170164	55.41	ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.047	83	125483	41.60	ug/L		100
79) 1,2,3-Trichloropropane	9.085	110	40025	44.68	ug/L		95
80) n-Propylbenzene	9.069	91	715436	46.08	ug/L		93
81) Trans-1,4-dichloro-2-b...	9.106	53	25745	34.19	ug/L	#	26
82) 2-Chlorotoluene	9.149	126	174862	53.11	ug/L	#	83
83) 4-Chlorotoluene	9.250	126	182554	53.42	ug/L		69
84) 1,3,5-Trimethylbenzene	9.224	105	531967	48.27	ug/L		90
85) Tert-butylbenzene	9.470	119	496334	51.83	ug/L		93
87) 1,2,4-Trimethylbenzene	9.518	105	565883	49.43	ug/L		89
88) Sec-Butylbenzene	9.641	105	720389	49.08	ug/L		92
89) 1,3-Dichlorobenzene	9.748	146	369493	57.34	ug/L		99
90) 4-Isopropyltoluene	9.753	119	695486	55.73	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	365139	56.47	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	337864	54.89	ug/L		97
94) n-Butylbenzene	10.058	91	564006	45.79	ug/L	#	86
95) 1,2-Dibromo-3-chloropr...	10.679	75	18465	35.75	ug/L	#	47
96) 1,2,4-Trichlorobenzene	11.225	180	210795	56.44	ug/L		98
97) Hexachlorobutadiene	11.305	225	98666	56.72	ug/L		95
98) Naphthalene	11.412	128	440569	49.50	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	175388	56.09	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

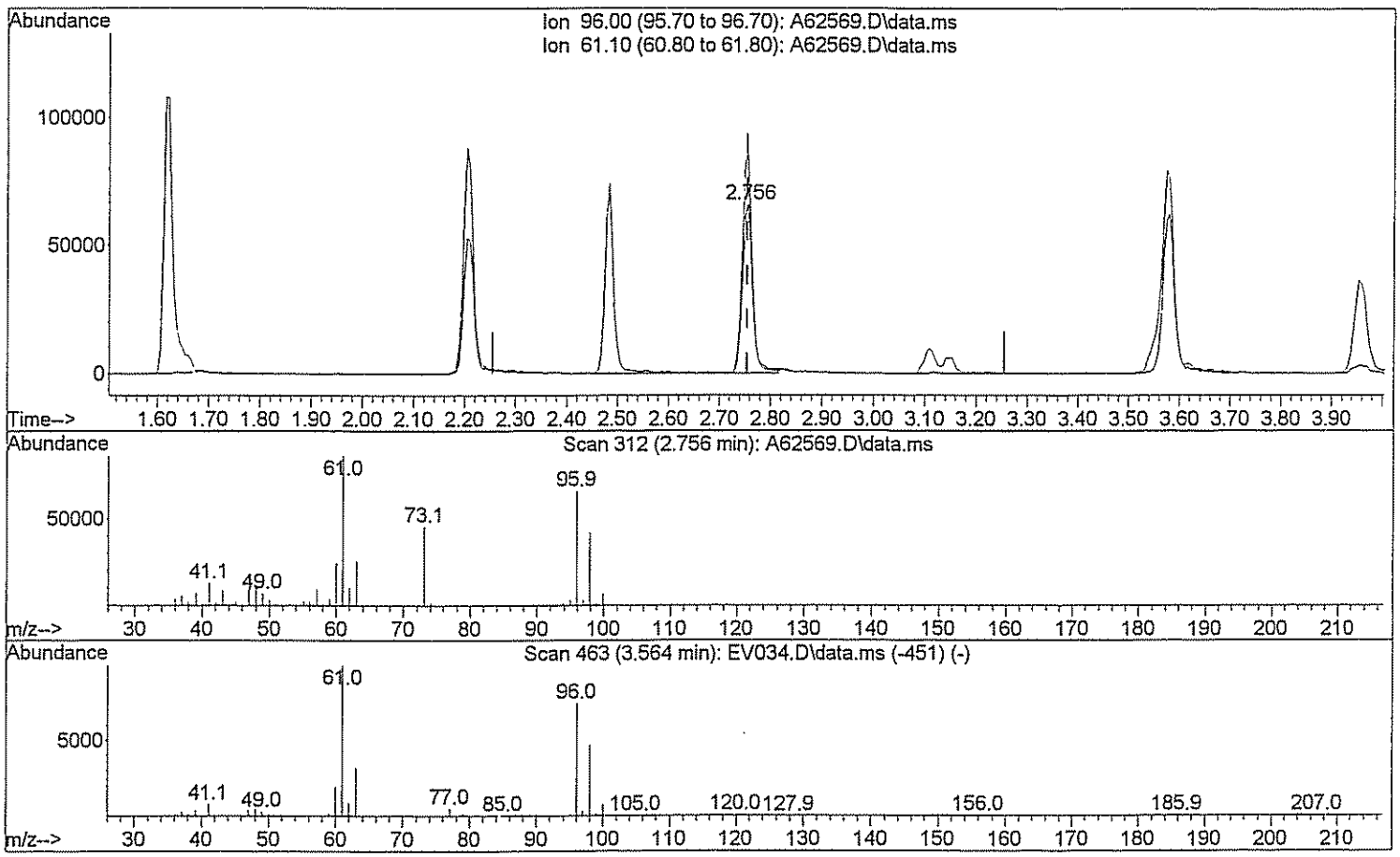
Quant Time: Mar 27 17:33:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 08:29:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62569.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 39.31 ug/L

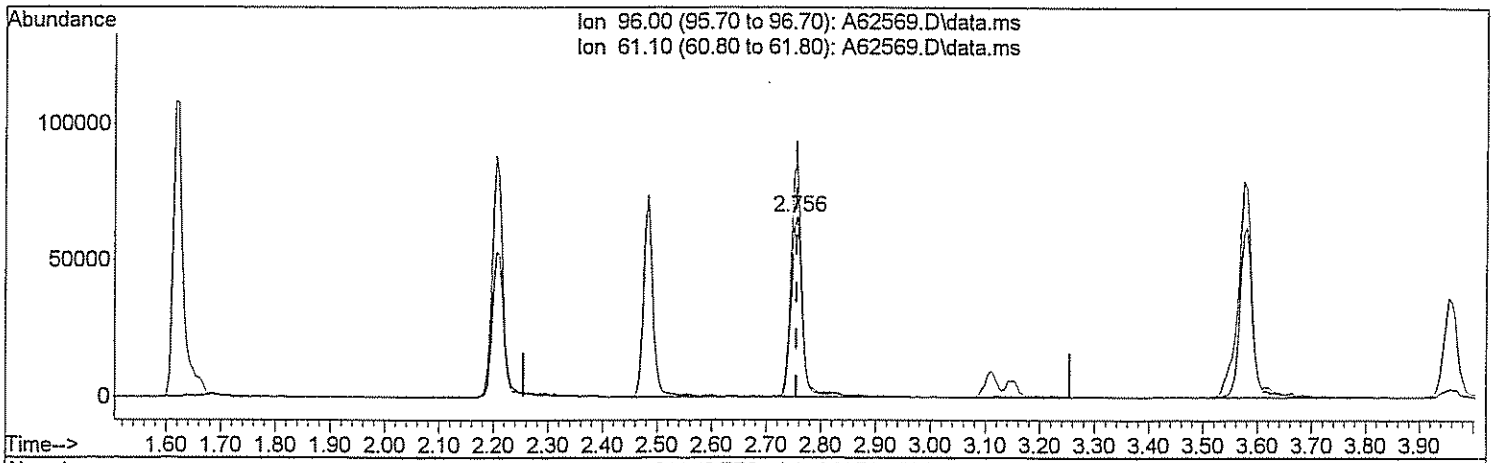
response 90710

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	131.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 08:29:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62569.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 85.44 ug/L m Jm 3/27/09

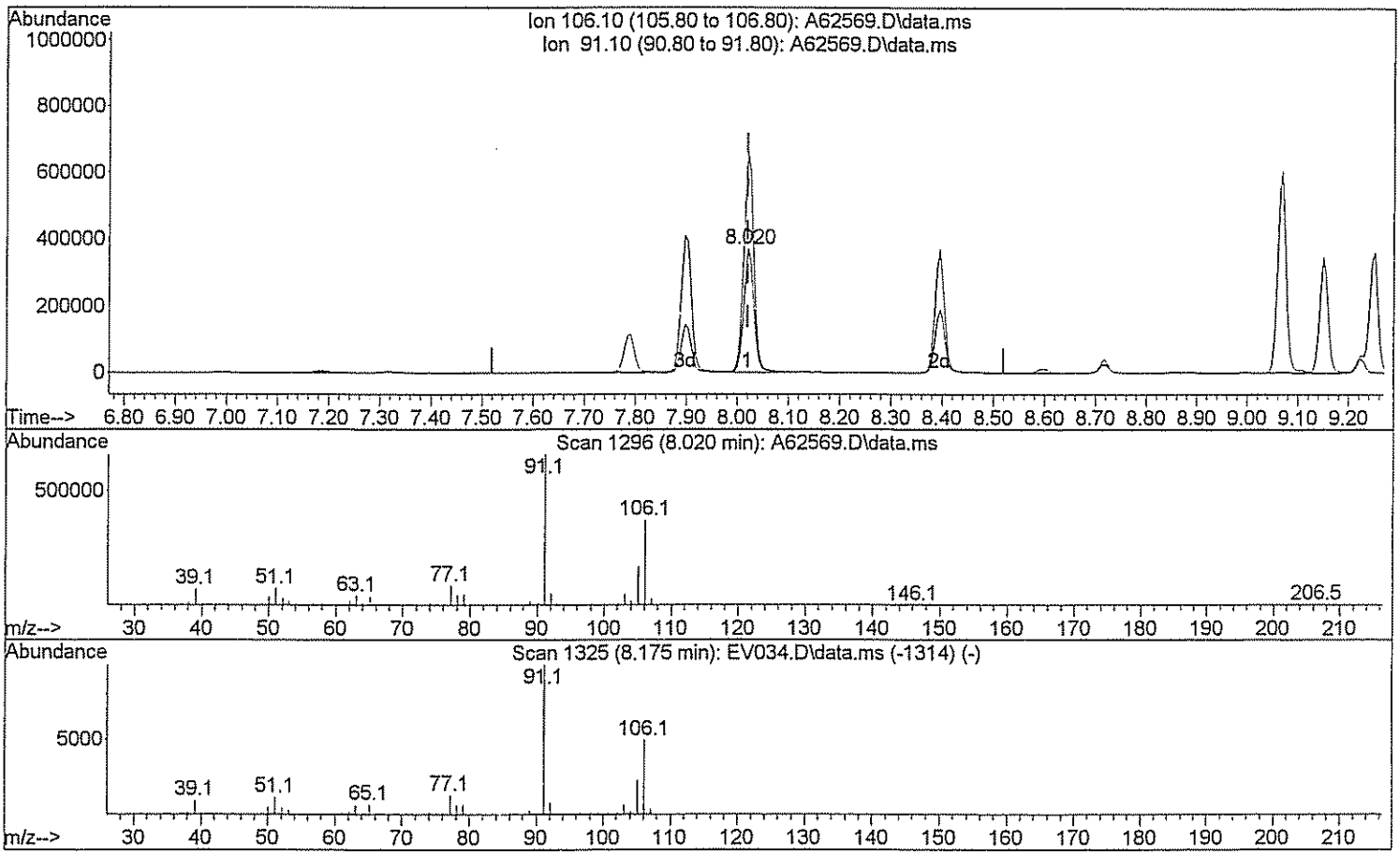
response 197153

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.35#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 08:29:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62569.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 94.89 ug/L

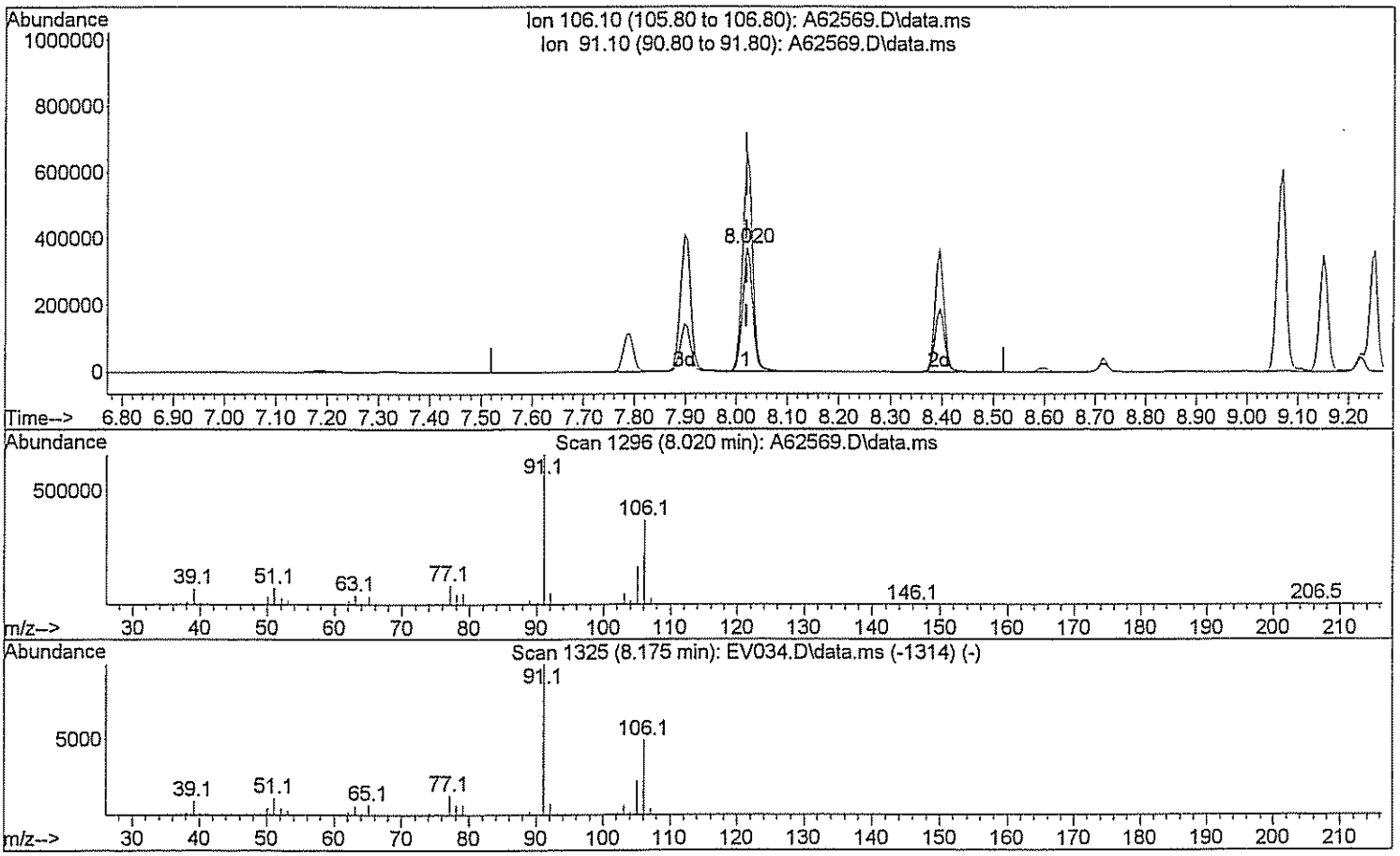
response 507448

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	180.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 08:29:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62569.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 141.31 ug/L m DW 3/27/09

response 755699

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	121.07#
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: [signature] Date: 3/11/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_031009
SEQUENCE FILE:	3-10-09C
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62205	BFB	3-10-09	07:35	1X	Std	5mL	N/A	BFB	OK
	A 7	CAL01	↓	↓	↓	↓	↓	↓	8260	OK
	A 9	CAL05								OK
	A 11	CAL20								OK
	A 13	CAL50								OK
	A 15	CAL100								OK
	A 17	Rinse								Cleaning
	A 19	CAL200								OK
	A 21	BLK								OK
	A 23	BKS				↓				OK
	A 25	903020-001				H2O				OK
	A 27	903020-004								OK
	A 29	903020-005		↓						OK
	A 31	903020-006		19:08						OK
	A ↓ 33	903020-007	↓	Outofton	↓	↓	↓	↓	↓	Rerun
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

SM 3/11/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11511	50	3-10-09	2.5ml
Mix1	11512	100		
Mix2	11513	↓		
Mix3	11514	500		
Gasmix	11515	100		
RefMix	11516	↓		

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NL Date: 3/27/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_031009
SEQUENCE FILE:	3-25-09AC1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A62533	BFB	3-25-09	20:39	1X	Std	5mL	N/A	BFB	NOT USED
	A 35	BFB		21:19					BFB 3/27/09	OK
	A 37	CCV50							8260	OK
	39	BLK								OK
	A 41	BLK				↓	↓	↓		OK
	A 43	903178-001				H2O		2		OK
	A 45	903178-002								OK
	A 47	903093-001								OK
	A 49	903093-002								OK
	A 51	903093-003								OK
	A 53	903093-004								Dilute 50x
	A 55	903093-005								OK
	A 57	903093-006								OK
	A 59	903093-007								OK
	A 61	903093-008								OK
	A ↓ 63	903093-009	↓	06:44	↓	↓	↓	↓	↓	OK
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

Dan 3/27/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11552	50	3-24-09	2.5 µL
Mix1	11553	100		
Mix2	11554	↓		
Mix3	11555	500		
GasMix	11556	100		
RefMix	11557	↓	↓	

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NK Date: 03/27/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	JM

ICAL Date: 3-10-09

METHOD FILE:	A8260_03l009
SEQUENCE FILE:	3-26-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62565	BFB	3-26-09	08:27	1X	Std	5ml	N/A	BFB	OK
	A 67	CCV50							8260	
	A 69	BKS								
	71	BLK								
	A 73	903093-004			50X	H2O	100ul	L2		
	A 75	903093-010			1X		5ml			
	A 77	903192-001								
	A 79	903192-002								
	A 81	903192-003								
	A 83	903192-004								
	A 85	903192-005								
	A 87	903192-001MS								
	A 89	903192-001MSD								
	A 91	903124-001								
	A 93	903124-002								
	A 95	903124-003		19:53						
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

JM 3/27/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11552	50	3-24-09	2.5ml
Mix1	11553	100		
Mix2	11554	↓		
Mix3	11555	500		
Gas Mix	11556	100		
Ref Mix	11557	↓	↓	↓

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary (where applicable)

GPL Laboratories, LLLP

Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903093

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-16GW35-0309	18.8	19.1	1.80	15%
Nitrite-N	E300.0	OU1-16GW35-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-16GW35-0309	0.102	0.104	1.94	15%

RPD - 0 out of 3 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-16GW35-0309	18.8	29.7	10.0	109	90 - 110%
Nitrite-N	E300.0	OU1-16GW35-0309	0.00	1.30	1.00	130*	90 - 110%
Nitrate-N	E300.0	OU1-16GW35-0309	0.102	1.05	1.00	94.5	90 - 110%

Recovery - 1 out of 3 outside control limits

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #44805/#44035

LCSL (3/14/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	158	99.7	85 - 115%
Nitrite-N	732	710	96.9	85 - 115%
Nitrate-N	187	176	94.1	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/14/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	156	98.4	85 - 115%
Nitrate-N	187	185	99.1	85 - 115%

Recovery - 0 out of 2 outside Control Limits

B. Sample Data

GPL Laboratories, LLLP

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-031-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	12	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

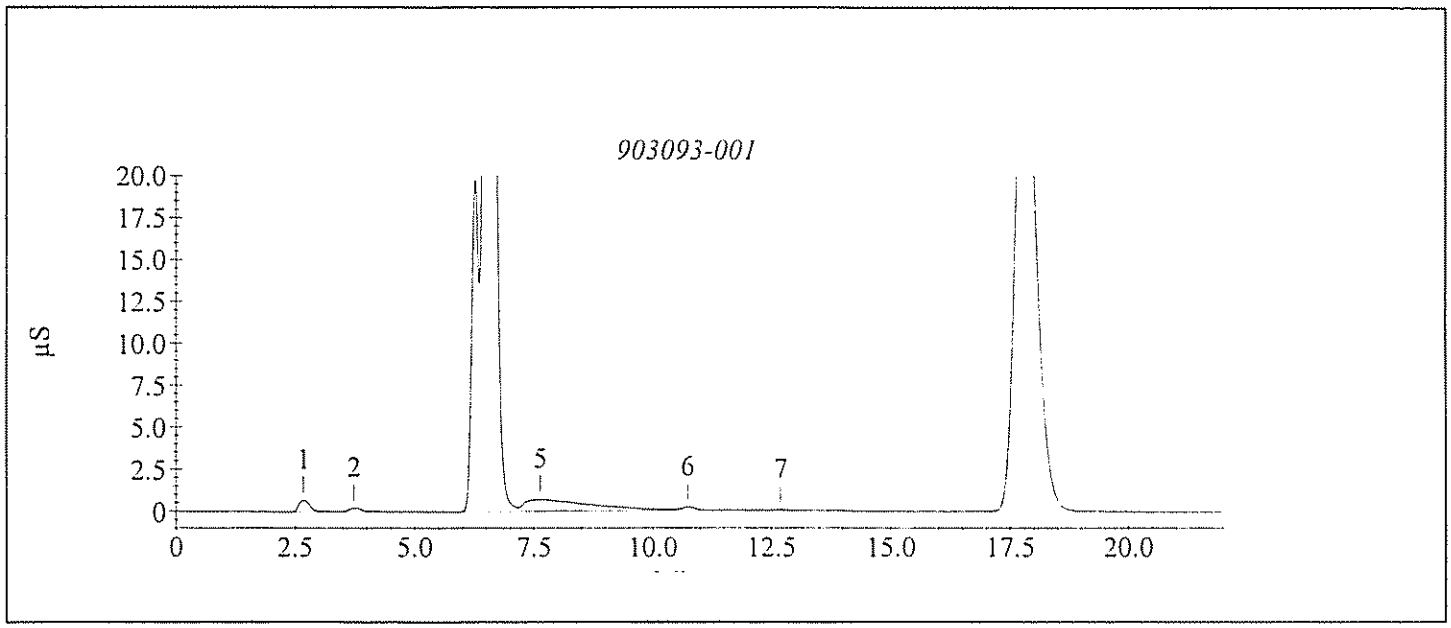
Sample Analysis Report

Sample Name : 903093-001
Data File Name : I:\ICDATA\IC500\090314\090314___007.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/14/09 1:21:32 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	0.075	44659	2172
3	Chloride	6.27	2.035	1727574	197076
	Nitrite-N				
6	Bromide	10.73	0.146	46872	2078
7	Nitrate-N	12.70	0.071	10055	462
	Phosphate-P				
8	Sulfate	17.80	15.247	9360006	310582



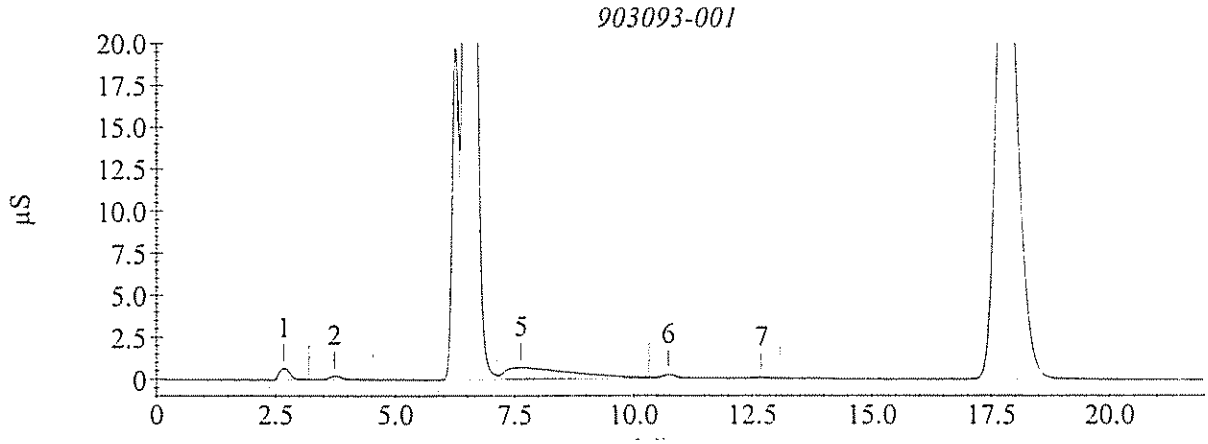
Sample Analysis Report

Sample Name : 903093-001
Data File Name : I:\ICDATA\IC500\090314\090314___007.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/14/09 1:21:32 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	0.526	44659	2172
4	Chloride	6.57	12.100	14145669	1042116
	Nitrite-N				
6	Bromide	10.73	2.029	46872	2078
7	Nitrate-N	12.70	1.189	10055	462
	Phosphate-P				
8	Sulfate	17.80	12.568	9360006	310582



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-032-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	12	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

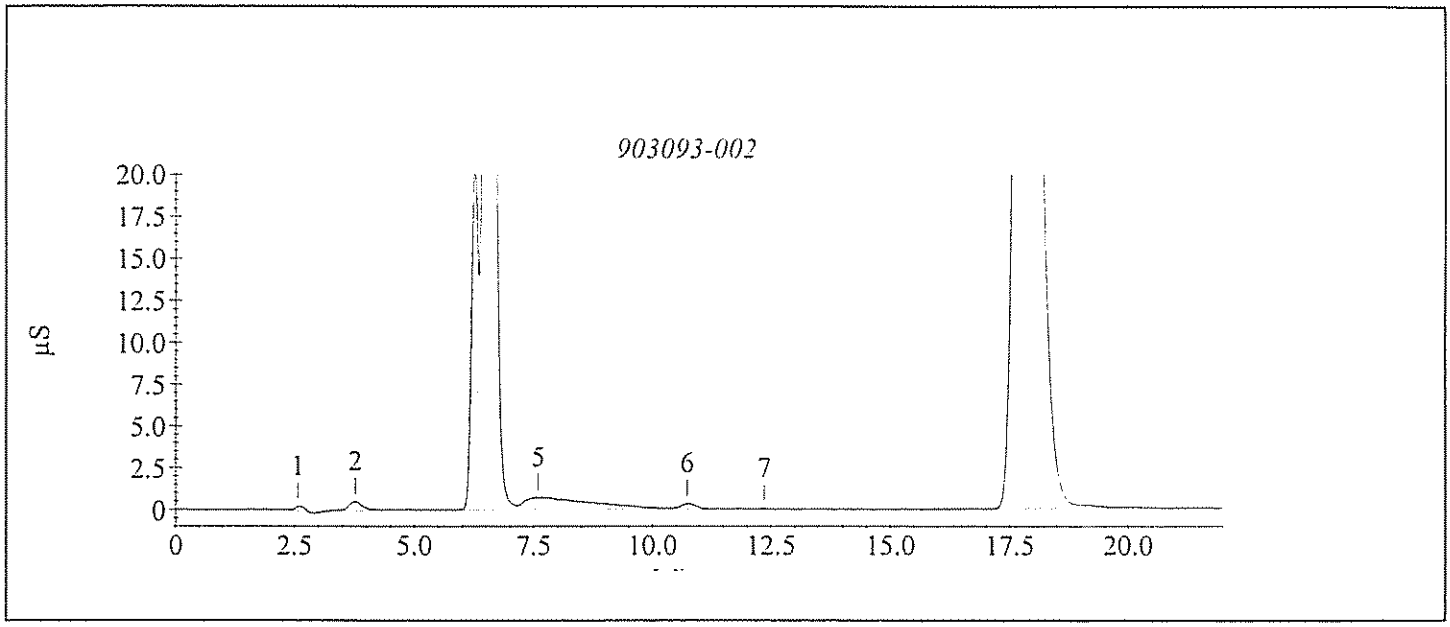
Sample Analysis Report

Sample Name : 903093-002
Data File Name : I:\ICDATA\IC500\090314\090314___008.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917I-300-0.met
Date Time Collected : 3/14/09 1:46:41 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.77	0.154	147436	5654
3	Chloride Nitrite-N	6.27	2.098	1781268	207080
6	Bromide Nitrate-N Phosphate-P	10.73	0.214	71677	3061
8	Sulfate	17.80	41.026	25209581	821832



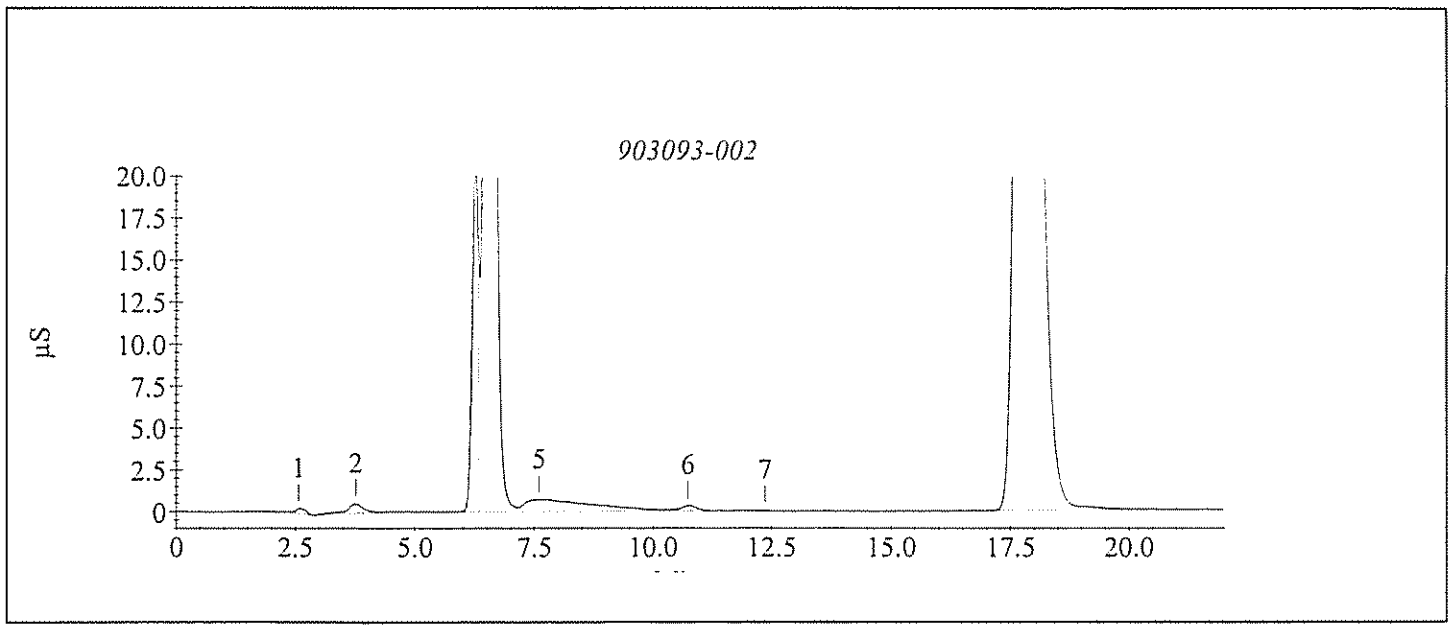
Sample Analysis Report

Sample Name : 903093-002
Data File Name : I:\ICDATA\IC500\090314\090314___008.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/14/09 1:46:41 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.77	0.589	147436	5654
4	Chloride	6.57	12.060	14092126	1067806
	Nitrite-N				
6	Bromide	10.73	2.073	71677	3061
7	Nitrate-N	12.37	1.187	4579	327
	Phosphate-P				
8	Sulfate	17.80	30.925	25209581	821832



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-033-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	
14797-55-8	Nitrate	0.26	
7727-37-9	Nitrite	0.10	U

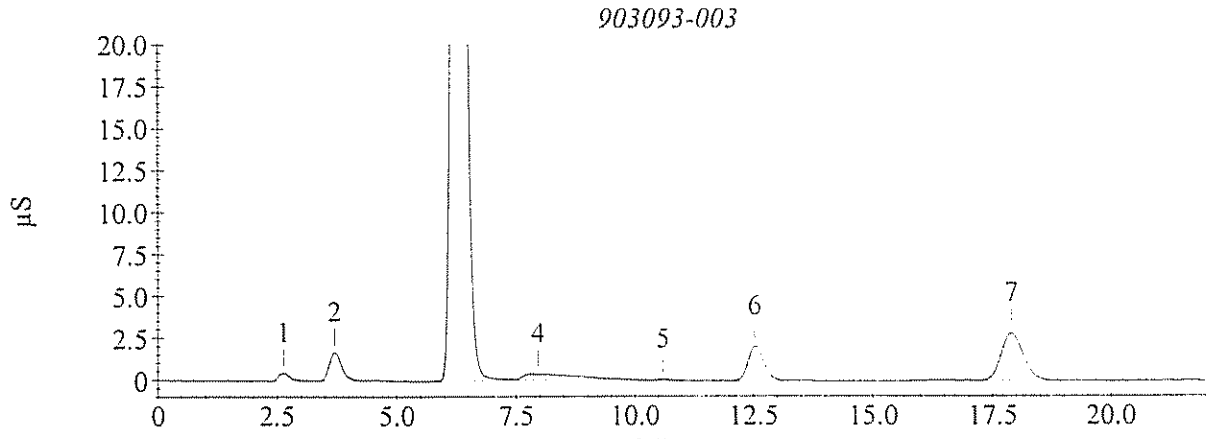
Sample Analysis Report

Sample Name : 903093-003
Data File Name : I:\ICDATA\IC500\090314\090314___009.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917I-300-0.met
Date Time Collected : 3/14/09 2:11:51 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	0.274	303622	16678
3	Chloride	6.33	14.039	12011805	609606
	Nitrite-N				
5	Bromide	10.60	0.061	15777	752
6	Nitrate-N	12.53	0.263	483581	20662
	Phosphate-P				
7	Sulfate	17.90	1.511	914389	28343



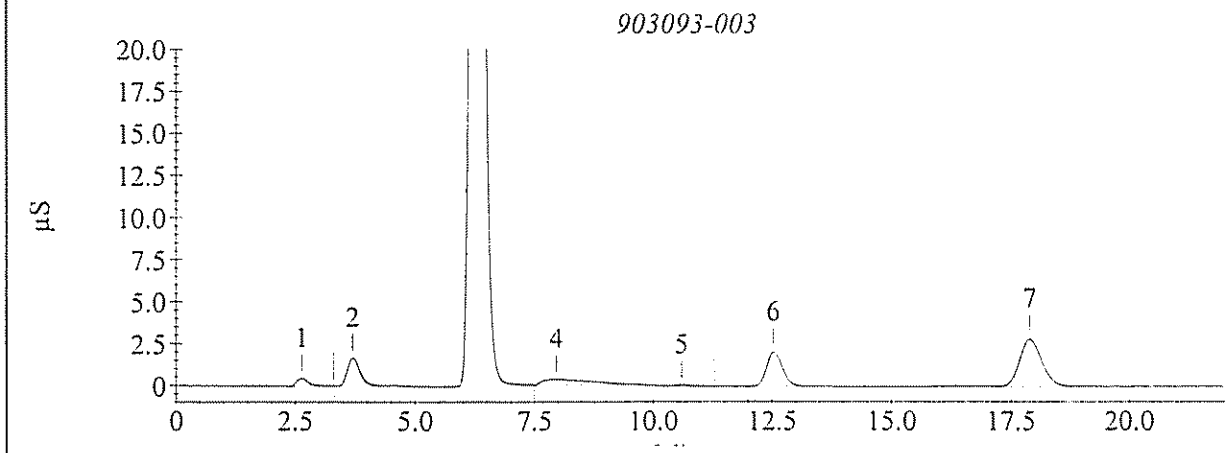
Sample Analysis Report

Sample Name : 903093-003
Data File Name : I:\ICDATA\IC500\090314\090314___009.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/14/09 2:11:51 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	0.684	303622	16678
3	Chloride Nitrite-N Bromide	6.33	10.495	12011805	609606
6	Nitrate-N Phosphate-P	12.53	1.327	483581	20662
7	Sulfate	17.90	2.787	914389	28343



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-034-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.4	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

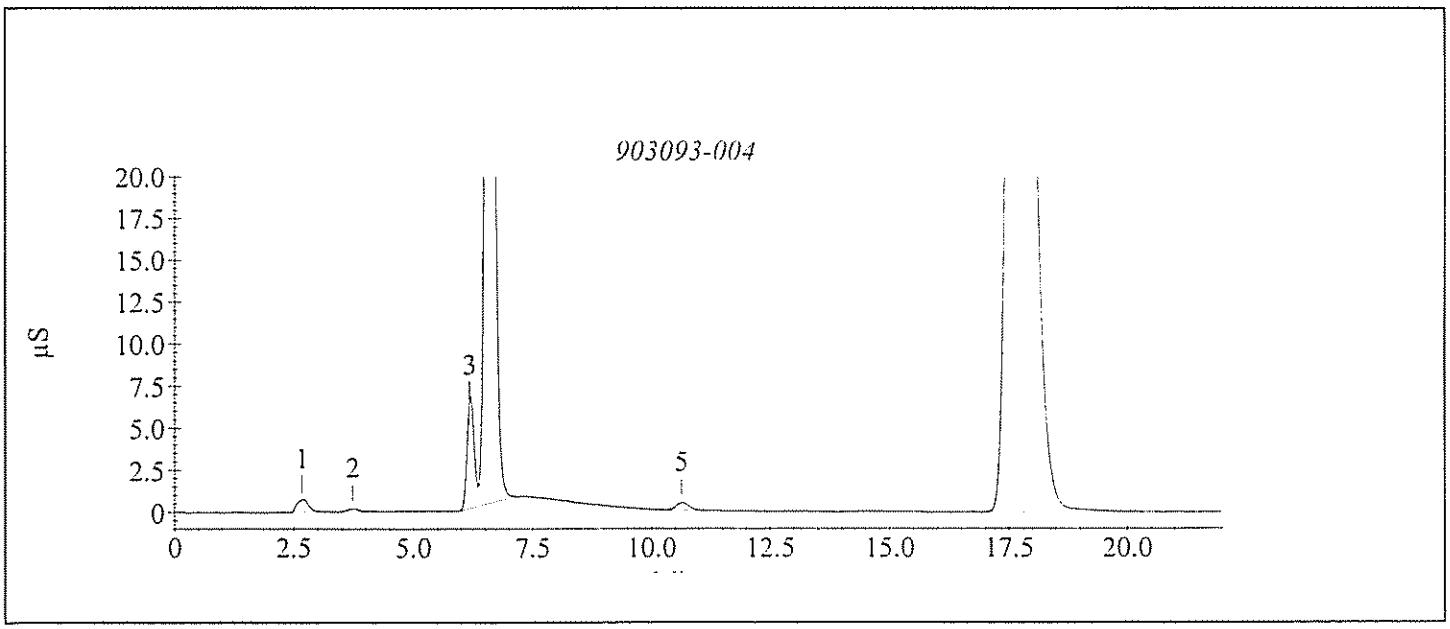
Sample Analysis Report

Sample Name : 903093-004
Data File Name : I:\ICDATA\IC500\090314\090314___010.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917I-300-0.met
Date Time Collected : 3/14/09 2:37:01 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	0.069	36869	1655
4	Chloride Nitrite-N	6.60	10.390	8885698	743784
5	Bromide Nitrate-N Phosphate-P	10.63	0.258	87973	4425
6	Sulfate	17.67	43.972	27020518	869390



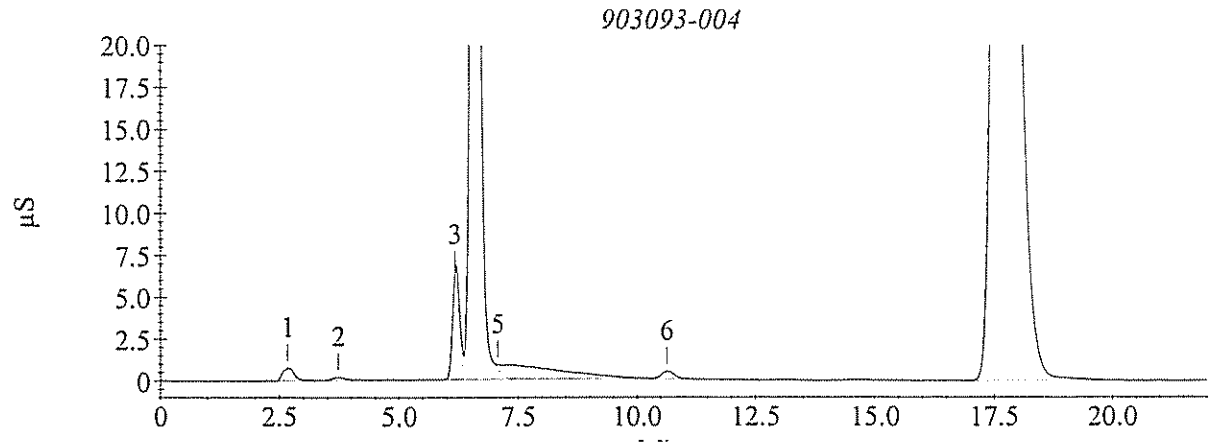
Sample Analysis Report

Sample Name : 903093-004
Data File Name : I:\ICDATA\IC500\090314\090314___010.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/14/09 2:37:01 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	0.576	126405	7361
4	Chloride Nitrite-N	6.60	8.351	9163230	748340
6	Bromide Nitrate-N Phosphate-P	10.63	2.103	87973	4425
7	Sulfate	17.67	33.022	27020518	869390



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-035-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.8	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

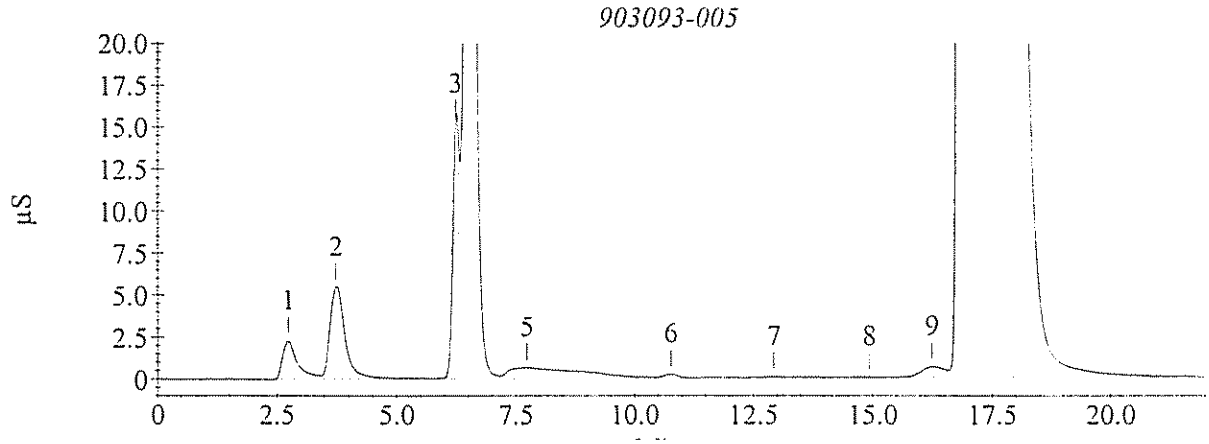
Sample Analysis Report

Sample Name : 903093-005
Data File Name : I:\ICDATA\IC500\090314\090314___011.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/14/09 3:02:09 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	0.945	1175148	54284
4	Chloride	6.53	11.473	9813177	678528
	Nitrite-N				
6	Bromide	10.77	0.149	47807	2281
7	Nitrate-N	12.93	0.071	9888	341
9	Phosphate-P	16.23	0.301	205837	6290
10	Sulfate	17.03	362.991	223163324	4649338



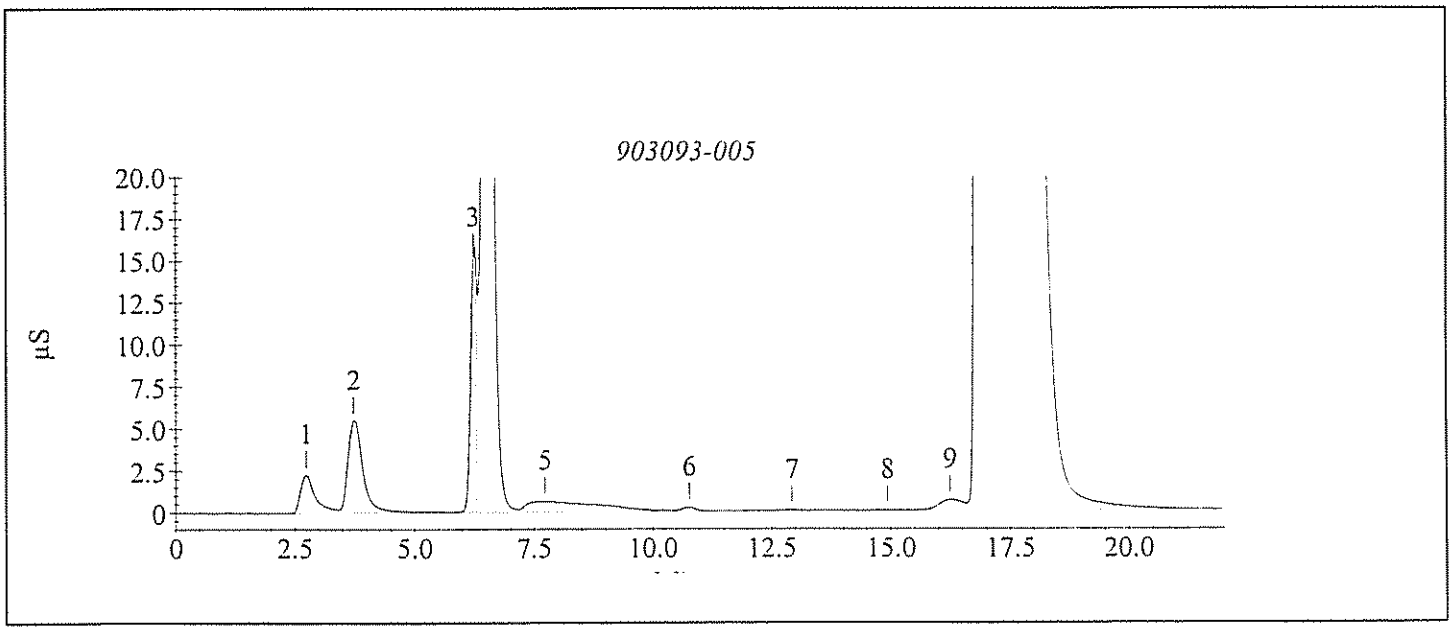
Sample Analysis Report

Sample Name : 903093-005
Data File Name : I:\ICDATA\IC500\090314\090314___011.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/14/09 3:02:09 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	1.219	1175148	54284
4	Chloride	6.53	8.840	9813177	678528
	Nitrite-N				
6	Bromide	10.77	2.031	47807	2281
7	Nitrate-N	12.93	1.189	9888	341
9	Phosphate-P	16.23	2.002	205837	6290
10	Sulfate	17.03	260.191	223163324	4649338



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-036-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	15	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

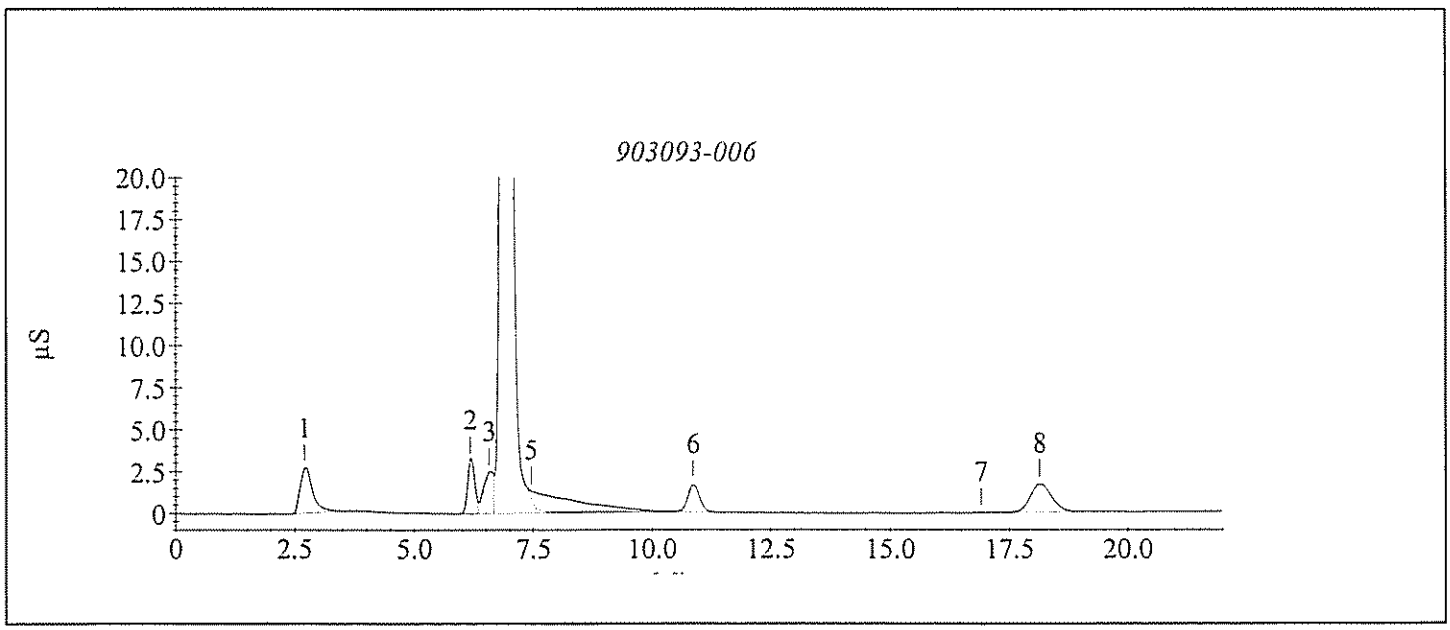
Sample Analysis Report

Sample Name : 903093-006
Data File Name : I:\ICDATA\IC500\090314\090314___012.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/14/09 3:27:18 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	0.423	496624	26387
4	Chloride Nitrite-N	6.93	20.489	17538003	1555252
6	Bromide Nitrate-N	10.87	0.793	283848	16140
7	Phosphate-P	16.90	0.043	3694	231
8	Sulfate	18.13	0.885	529800	16700



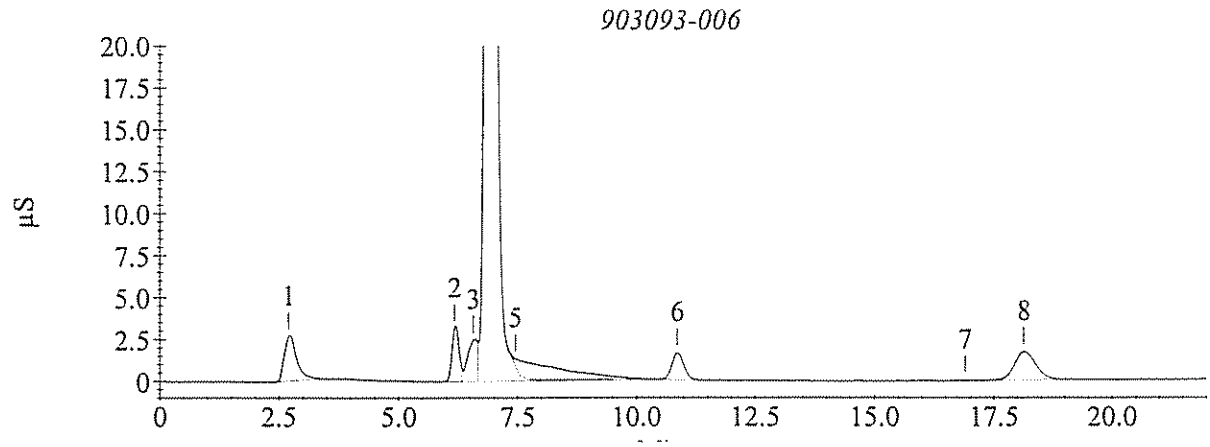
Sample Analysis Report

Sample Name : 903093-006
Data File Name : I:\ICDATA\IC500\090314\090314___012.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/14/09 3:27:18 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	0.802	496624	26387
4	Chloride	6.93	14.653	17538003	1555252
	Nitrite-N				
6	Bromide	10.87	2.455	283848	16140
	Nitrate-N				
7	Phosphate-P	16.90	1.834	3694	231
8	Sulfate	18.13	2.341	529800	16700



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-037-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

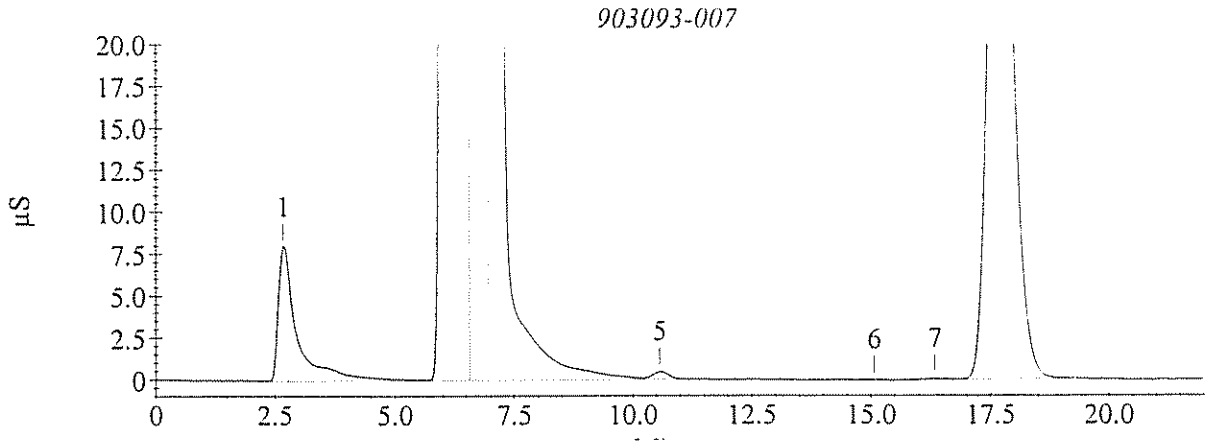
Sample Analysis Report

Sample Name : 903093-007
Data File Name : I:\ICDATA\IC500\090314\090314___013.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917I-300-0.met
Date Time Collected : 3/14/09 3:52:26 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.756	2227819	79321
2	Chloride Nitrite-N	6.33	237.022	203046928	7964364
5	Bromide Nitrate-N	10.57	0.320	110699	4497
7	Phosphate-P	16.33	0.051	9629	370
8	Sulfate	17.67	24.100	14803055	426104



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-037-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	10
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	29	

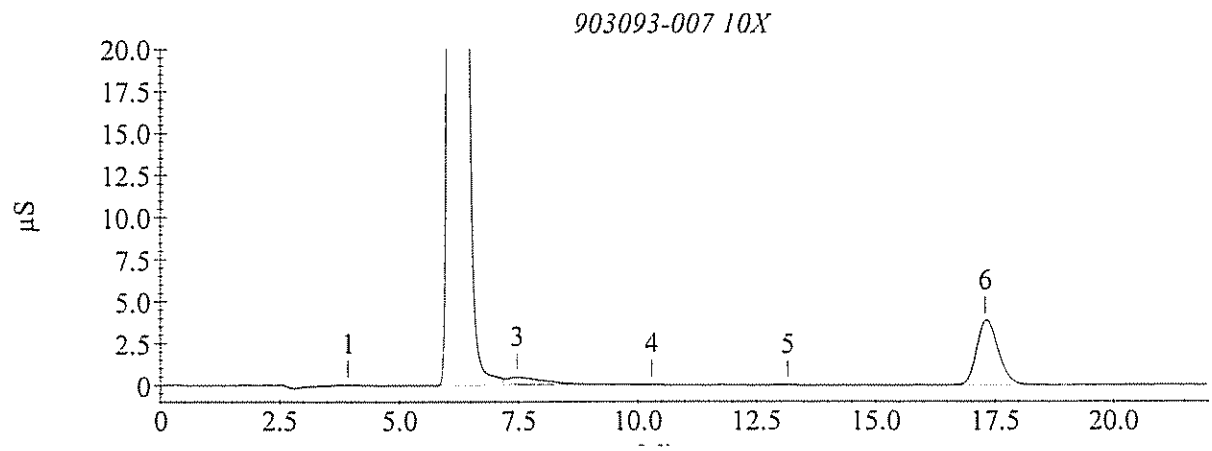
Sample Analysis Report

Sample Name : 903093-007 10X
Data File Name : I:\ICDATA\IC500\090325\090325__034.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 2:31:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.93	0.654	52239	592
2	Chloride	6.23	30.841	40515601	2337056
	Nitrite-N				
4	Bromide	10.30	1.926	7012	394
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.30	2.879	1216508	38328



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-038-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	0.10	
7727-37-9	Nitrite	0.10	U

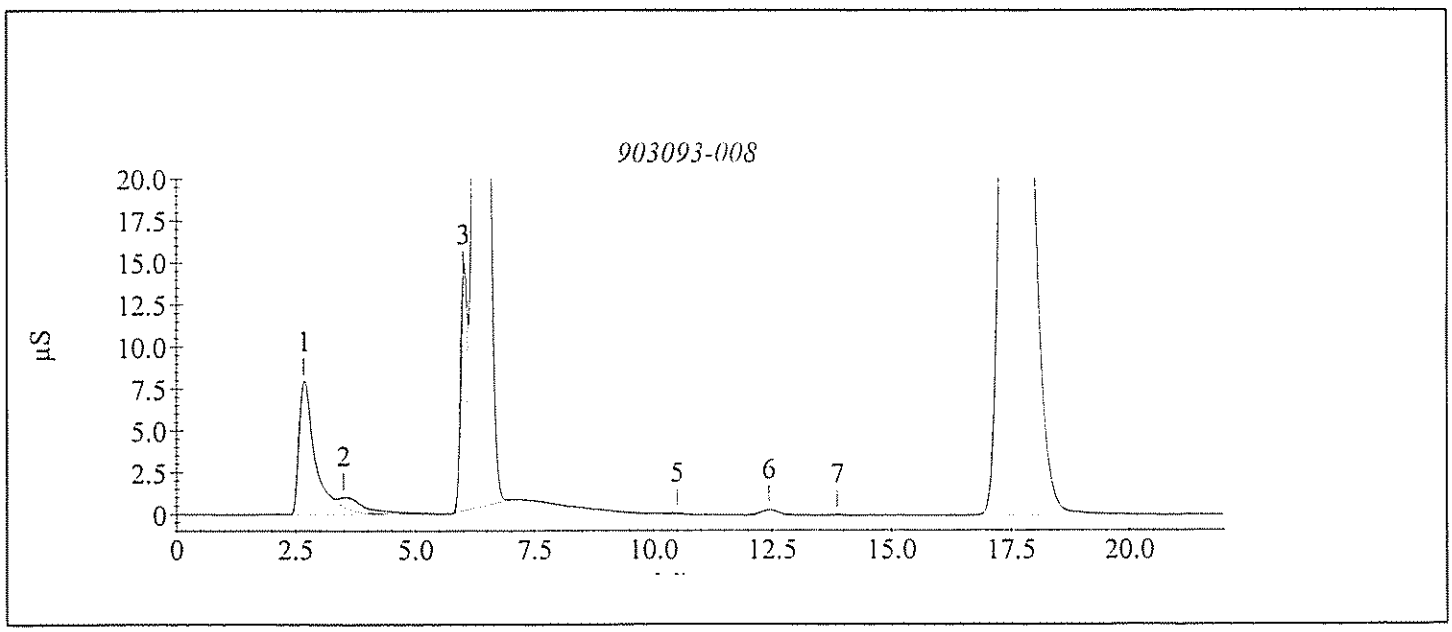
Sample Analysis Report

Sample Name : 903093-008
Data File Name : I:\ICDATA\IC500\090314\090314___014.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/14/09 4:17:35 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.50	0.261	286577	5742
4	Chloride Nitrite-N	6.40	21.028	17999308	1022571
5	Bromide	10.50	0.043	9149	583
6	Nitrate-N Phosphate-P	12.43	0.102	86511	3215
8	Sulfate	17.57	41.240	25341016	691701



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-038-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	19	

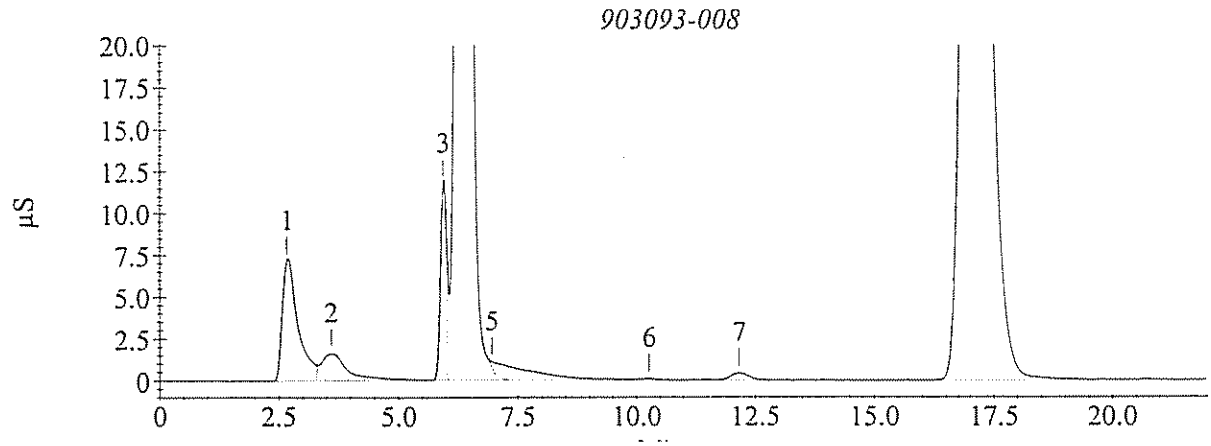
Sample Analysis Report

Sample Name : 903093-008
Data File Name : I:\ICDATA\IC500\090325\090325__035.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 2:57:00 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.982	592067	16087
4	Chloride	6.40	18.777	23923689	1439593
	Nitrite-N				
6	Bromide	10.27	1.941	15663	743
7	Nitrate-N	12.17	1.129	112565	4213
	Phosphate-P				
8	Sulfate	17.07	25.853	24727914	695031



C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLLP

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903093 STD Solution ID: 45325/45405

3/14/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVL	**Chloride**	1.25	1.32	106	90 - 110%
	Nitrite-N	1.25	1.34	107	90 - 110%
	Nitrate-N	1.25	1.22	97.8	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	**Chloride**	1.25	1.29	103	90 - 110%
	Nitrite-N	1.25	1.32	106	90 - 110%
	Nitrate-N	1.25	1.22	97.4	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	**Chloride**	1.25	1.35	108	90 - 110%
	Nitrite-N	1.25	1.32	106	90 - 110%
	Nitrate-N	1.25	1.21	96.9	90 - 110%

3/14/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVH	**Chloride**	20.0	21.3	106	90 - 110%
	Nitrate-N	20.0	21.1	106	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	**Chloride**	20.0	21.1	106	90 - 110%
	Nitrate-N	20.0	20.7	104	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	**Chloride**	20.0	21.1	105	90 - 110%
	Nitrate-N	20.0	21.0	105	90 - 110%

3/25/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	**Chloride**	10.0	9.47	94.7	90 - 110%
	Nitrate-N	10.0	9.87	98.7	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	**Chloride**	10.0	9.52	95.2	90 - 110%
	Nitrate-N	10.0	9.84	98.4	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	**Chloride**	10.0	9.56	95.6	90 - 110%
	Nitrate-N	10.0	10.0	100	90 - 110%

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.63 min	1.00 min	
Chloride	6.40 min	1.00 min	
Nitrite-N	8.27 min	1.00 min	
Bromide	11.13 min	1.00 min	
Nitrate-N	13.37 min	1.00 min	
Phosphate-P	16.77 min	1.00 min	
Sulfate	18.97 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.63 min	0	0
Chloride	6.40 min	0	0
Nitrite-N	8.27 min	0	0
Bromide	11.13 min	0	0
Nitrate-N	13.37 min	0	0
Phosphate-P	16.77 min	0	0
Sulfate	18.97 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.63 min	Linear	Ignore	Area		0.00
Chloride	6.40 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.27 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.13 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	13.37 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.77 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.97 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	4957.2
2	0.10	109547
3	0.25	277132
4	0.50	557311
5	1.00	1.24129e+006
6	2.50	3.20076e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.40 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	77115.9
3	0.25	197410
4	0.50	408470
5	1.00	836176
6	2.50	2.12844e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.27 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	13027
2	0.10	159558
3	0.25	359105
4	0.50	820570
5	1.00	1.74342e+006
6	2.50	4.38464e+006

CD20 Component = Bromide Levels Table

Retention Time : 11.13 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	38326.6
3	0.25	88554.3
4	0.50	165498
5	1.00	356395
6	2.50	912041

CD20 Component = Nitrate-N Levels Table

Retention Time : 13.37 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	205502
3	0.25	506529
4	0.50	970676
5	1.00	2.16507e+006
6	2.50	6.05721e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7303.4
2	0.10	67439.6
3	0.25	165945
4	0.50	353067
5	1.00	734622
6	2.50	1.93771e+006

CD20 Component = Sulfate Levels Table

Retention Time : 18.97 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	53956.6
3	0.25	139751
4	0.50	274835
5	1.00	612643
6	2.50	1.52046e+006

CD20 XY Data Parameters

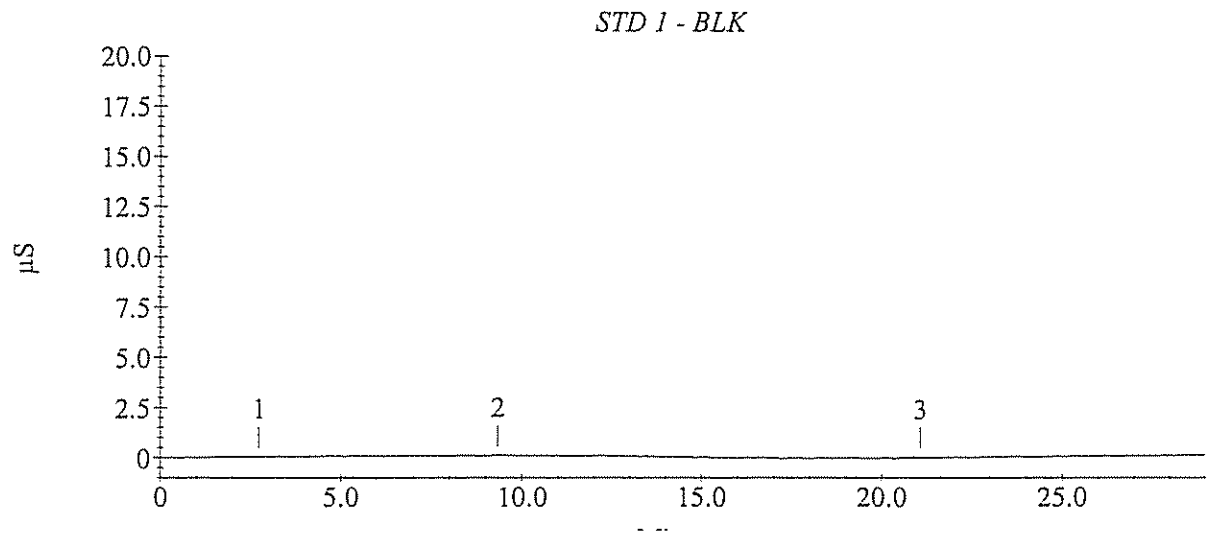
Calibration Update Report

Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\080917\080917__003.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:21:51 PM
Calibration Date : 9/18/08 10:53:59 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride Chloride	2.73	12030	4957	4957
2	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	9.33	10214	13027	13027



Calibration Update Report

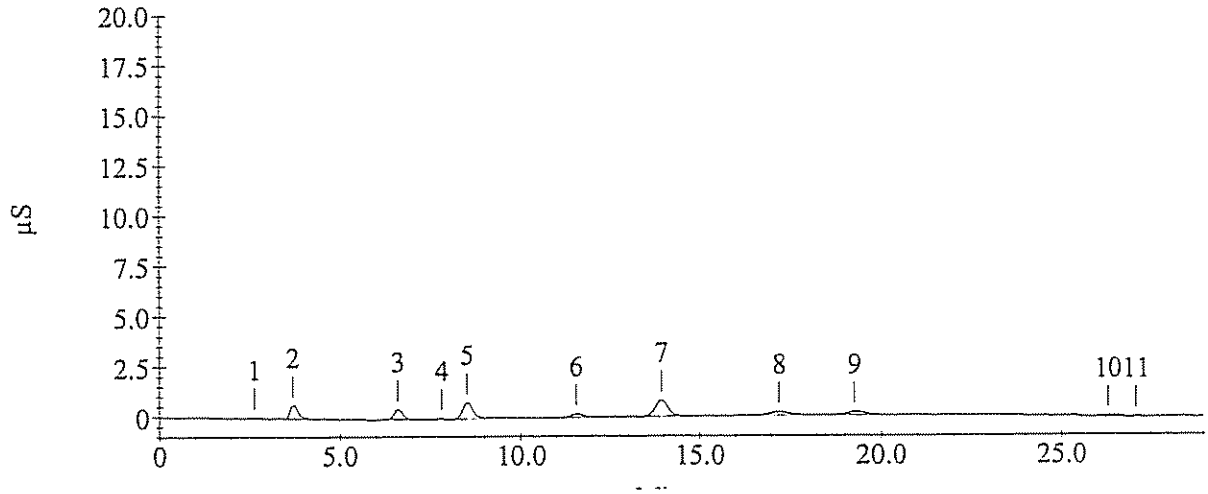
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__004.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:54:07 PM
Calibration Date : 9/18/08 10:54:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.70	127699	109547	109547
3	Chloride	6.60	79506	77116	77116
5	Nitrite-N	8.50	165770	159558	159558
6	Bromide	11.53	36476	38327	38327
7	Nitrate-N	13.93	210099	205502	205502
8	Phosphate-P	17.20	57656	67440	67440
9	Sulfate	19.27	29056	53957	53957

STD 2 - 0.10 mg/L



Calibration Update Report

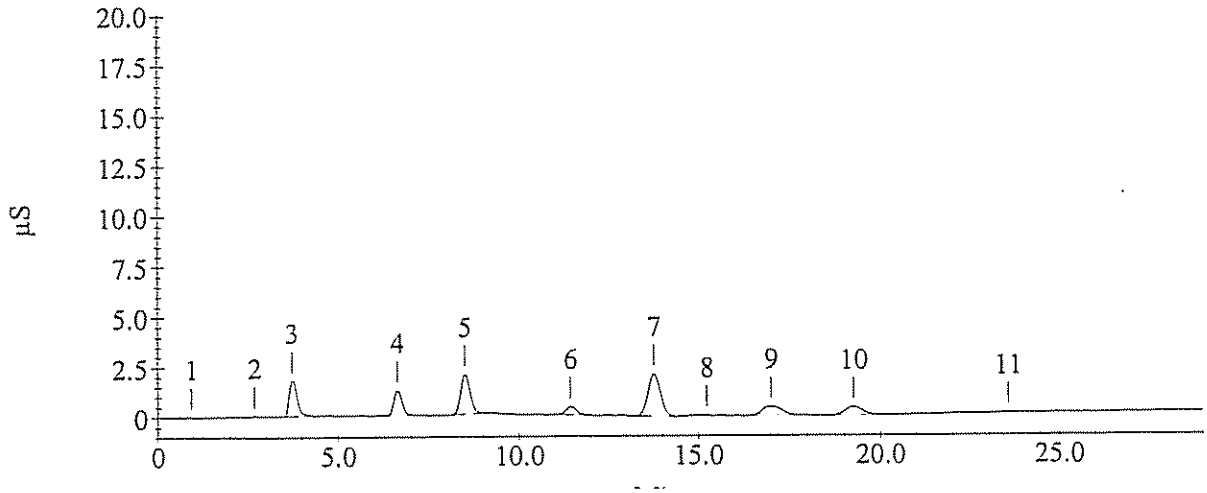
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__005.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:26:23 PM
Calibration Date : 9/18/08 10:55:25 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.73	321091	277132	277132
4	Chloride	6.63	234107	197410	197410
5	Nitrite-N	8.50	439503	359105	359105
6	Bromide	11.43	91211	88554	88554
7	Nitrate-N	13.77	544593	506530	506530
9	Phosphate-P	17.00	161886	165945	165945
10	Sulfate	19.27	150013	139751	139751

STD 3 - 0.25 mg/L



Calibration Update Report

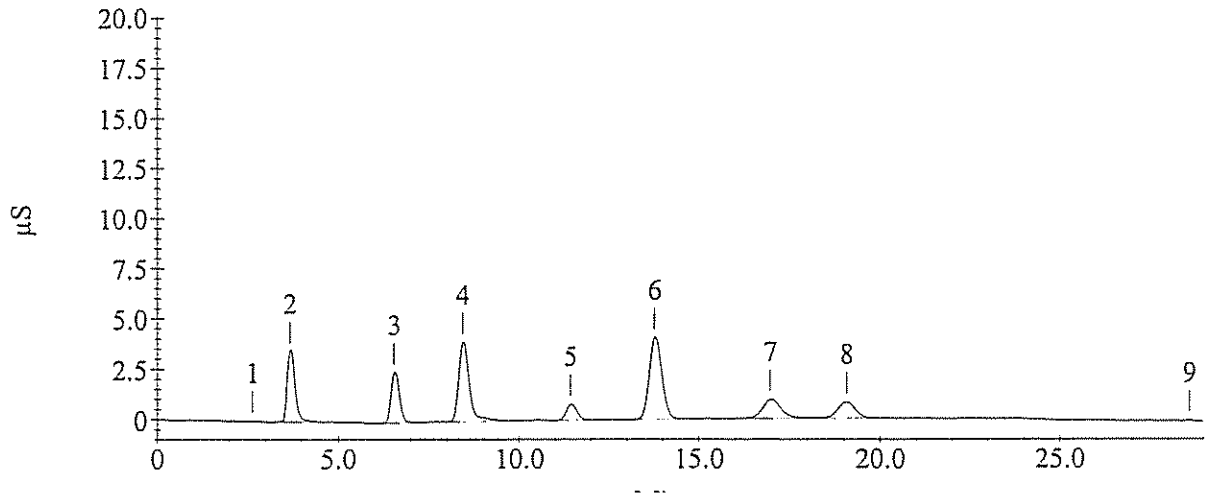
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__006.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:58:39 PM
Calibration Date : 9/18/08 10:55:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	652331	557311	557311
3	Chloride	6.53	443570	408470	408470
4	Nitrite-N	8.43	856511	820570	820570
5	Bromide	11.43	176794	165498	165498
6	Nitrate-N	13.77	1117440	970676	970676
7	Phosphate-P	16.97	364199	353067	353067
8	Sulfate	19.07	317565	274835	274835

STD 4 - 0.50 mg/L



Calibration Update Report

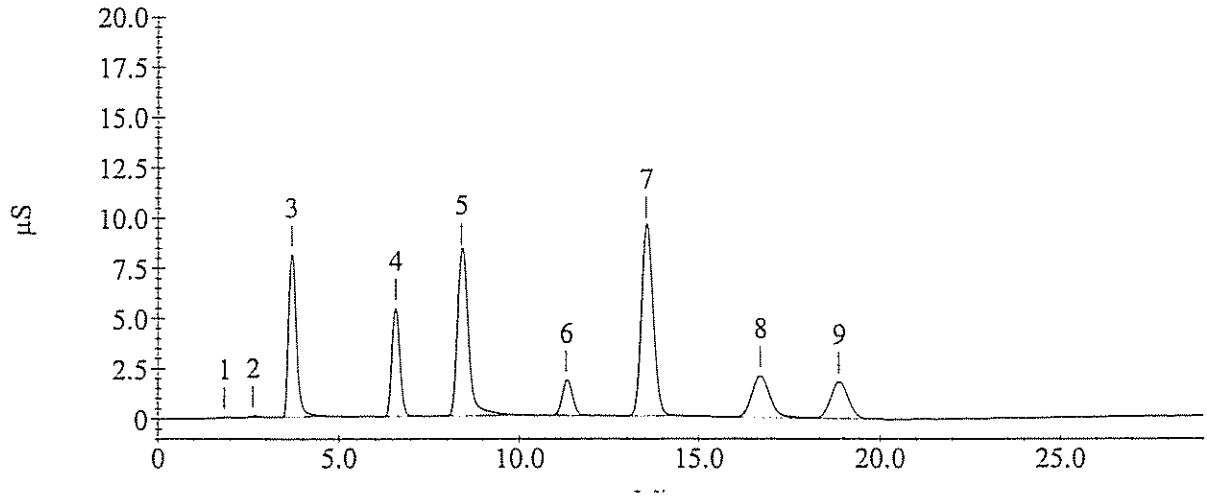
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__007.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 5:30:56 PM
Calibration Date : 9/18/08 10:56:16 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	1414952	1241286	1241286
4	Chloride	6.57	945973	836176	836176
5	Nitrite-N	8.40	1867081	1743424	1743424
6	Bromide	11.30	378829	356395	356395
7	Nitrate-N	13.53	2350504	2165069	2165069
8	Phosphate-P	16.70	766176	734622	734622
9	Sulfate	18.87	605591	612643	612643

STD 5 - 1.00 mg/L



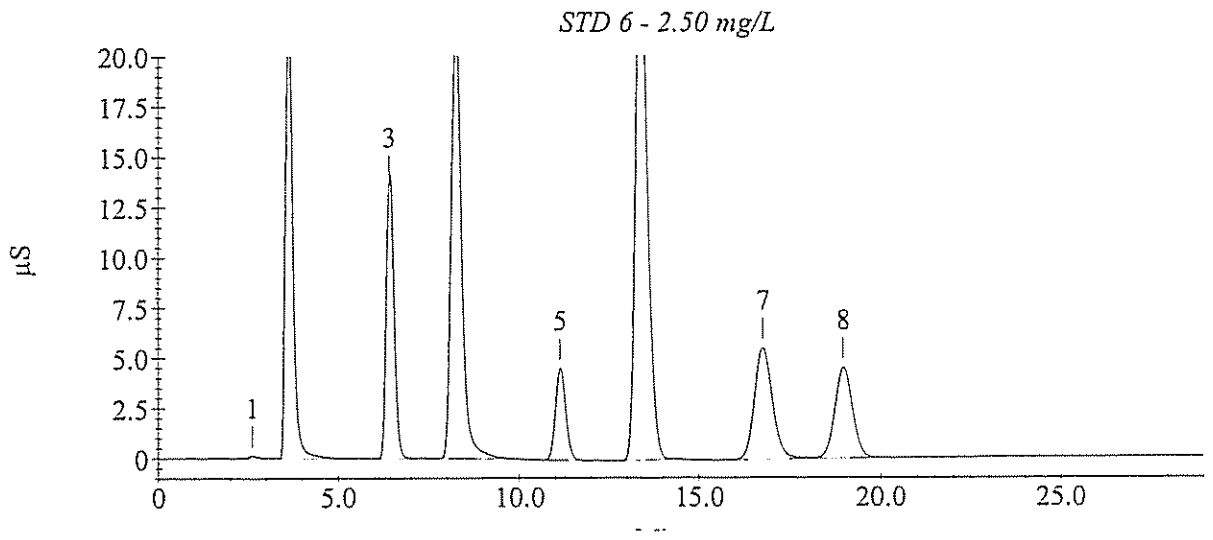
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__008.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:03:10 PM
Calibration Date : 9/18/08 10:56:45 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.63	3393532	3201114	3201114
3	Chloride	6.40	2250125	2128443	2128443
4	Nitrite-N	8.27	4631633	4384638	4384638
5	Bromide	11.13	897545	912041	912041
6	Nitrate-N	13.37	6210895	6057211	6057211
7	Phosphate-P	16.77	2064462	1937708	1937708
8	Sulfate	18.97	1545001	1520461	1520461



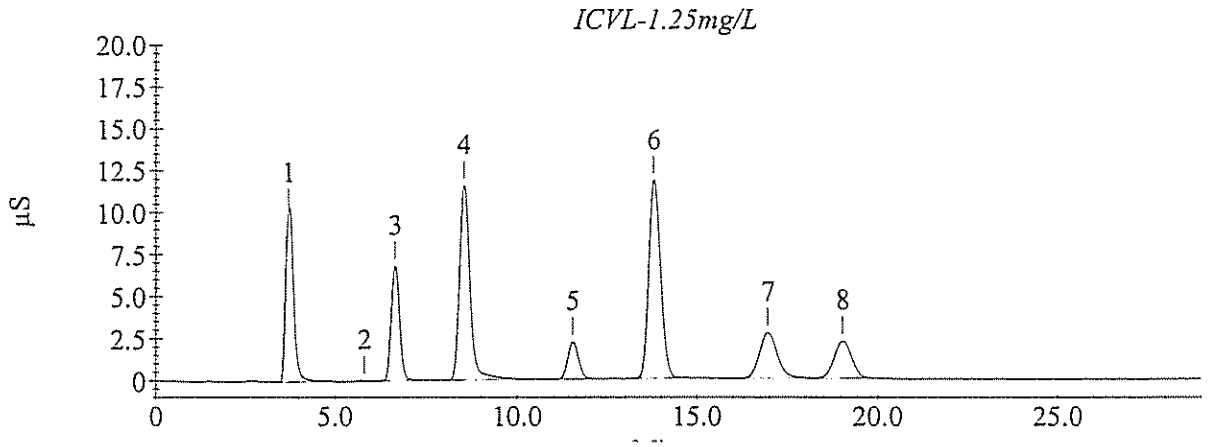
Sample Analysis Report

Sample Name : ICVL-1.25mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 9/17/08 9:49:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	1.272	1599310	100086
3	Chloride	6.63	1.281	1081600	67848
4	Nitrite-N	8.53	1.342	2332375	115172
5	Bromide	11.53	1.266	457280	22107
6	Nitrate-N	13.80	1.167	2714120	117215
7	Phosphate-P	16.97	1.231	934494	27173
8	Sulfate	19.03	1.214	732044	22175



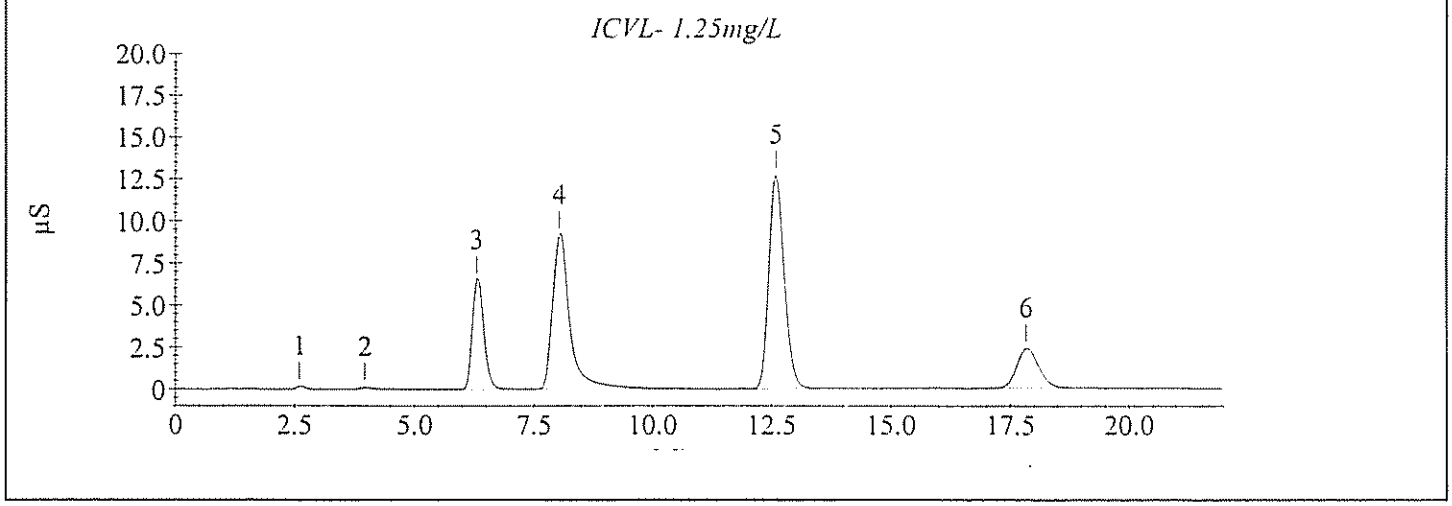
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___002.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/14/09 11:15:50 AM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.97	0.055	19116	1057
3	Chloride	6.30	1.324	1118859	64447
4	Nitrite-N Bromide	8.03	1.339	2326894	91081
5	Nitrate-N Phosphate-P	12.60	1.223	2850991	126725
6	Sulfate	17.83	1.267	764558	23483



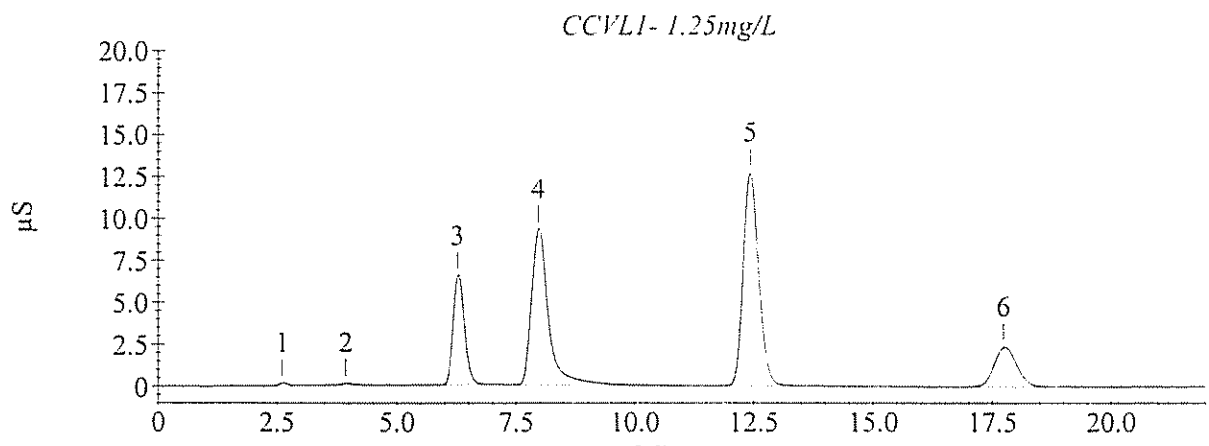
Sample Analysis Report

Sample Name : CCVL1- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___015.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/14/09 4:42:46 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.93	0.059	24554	1139
3	Chloride	6.27	1.289	1088861	64224
4	Nitrite-N Bromide	7.97	1.319	2291535	92233
5	Nitrate-N Phosphate-P	12.43	1.218	2840535	126622
6	Sulfate	17.73	1.279	771991	23410



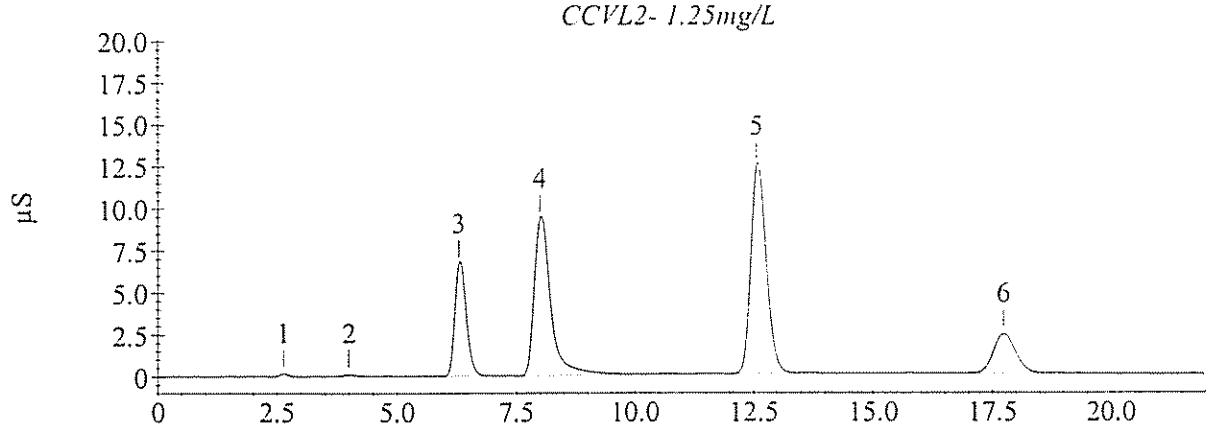
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___020.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/14/09 6:48:26 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	4.00	0.057	21096	1079
3	Chloride	6.30	1.351	1141820	66091
4	Nitrite-N Bromide	8.00	1.322	2296754	92810
5	Nitrate-N Phosphate-P	12.57	1.211	2822232	122878
6	Sulfate	17.73	1.250	754068	23422



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	2.00 min	
Chloride	6.60 min	2.00 min	
Nitrite-N	8.60 min	2.00 min	
Bromide	11.10 min	2.00 min	
Nitrate-N	12.53 min	2.00 min	
Phosphate-P	16.53 min	2.00 min	
Sulfate	18.63 min	2.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.60 min	0	0
Nitrite-N	8.60 min	0	0
Bromide	11.10 min	0	0
Nitrate-N	12.53 min	0	0
Phosphate-P	16.53 min	0	0
Sulfate	18.63 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.60 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.60 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.10 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.53 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.53 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.63 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.19633e+006
2	5.00	6.79909e+006
3	10.00	1.4197e+007
4	15.00	2.23583e+007
5	25.00	3.24666e+007
6	50.00	5.95621e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.17209e+006
2	5.00	4.74491e+006
3	10.00	1.09177e+007
4	15.00	1.81901e+007
5	25.00	3.02302e+007
6	50.00	6.49975e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.50237e+006
2	5.00	9.32687e+006
3	10.00	1.88466e+007
4	15.00	2.84344e+007
5	25.00	4.30083e+007
6	50.00	7.78228e+007

CD20 Component = Bromide Levels Table

Retention Time : 11.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	944915
2	5.00	1.94188e+006
3	10.00	4.22448e+006
4	15.00	6.96738e+006
5	25.00	1.20925e+007
6	50.00	2.71285e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.0797e+006
2	5.00	1.34786e+007
3	10.00	2.97651e+007
4	15.00	4.68262e+007
5	25.00	7.95557e+007
6	50.00	1.68531e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.91979e+006
2	5.00	4.10318e+006
3	10.00	9.26053e+006
4	15.00	1.50936e+007
5	25.00	2.73147e+007
6	50.00	5.84703e+007

CD20 Component = Sulfate Levels Table

Retention Time : 18.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.51196e+006
2	5.00	3.10193e+006
3	10.00	6.7792e+006
4	15.00	1.0794e+007
5	25.00	1.95858e+007
6	50.00	4.20941e+007

CD20 XY Data Parameters

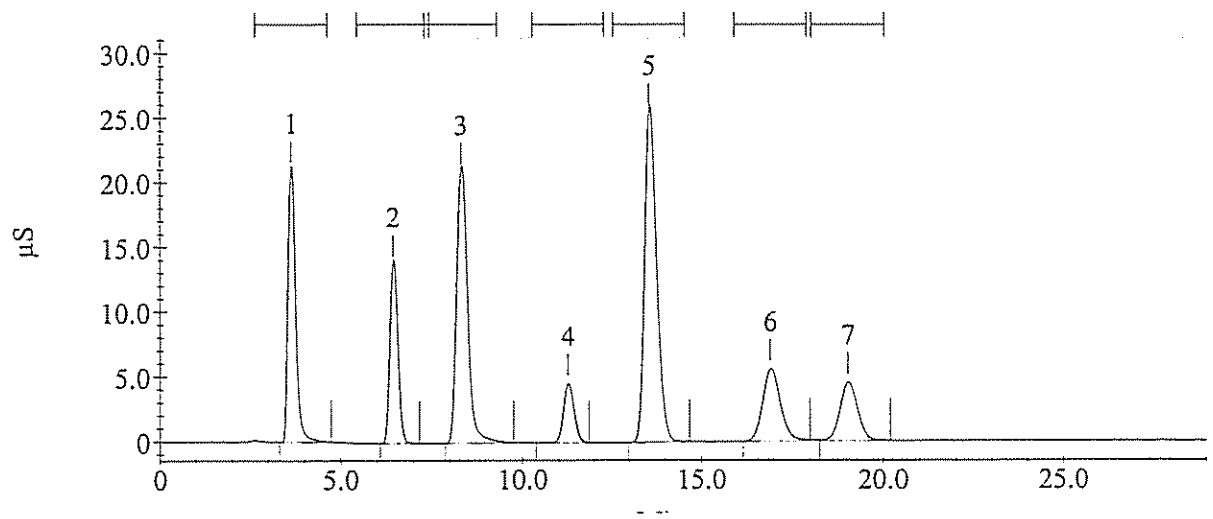
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__009.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:35:27 PM
Calibration Date : 9/18/08 1:45:07 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.63	3490609	3196333	3196333
2	Chloride	6.43	2340736	2172090	2172090
3	Nitrite-N	8.30	4788476	4502370	4502370
4	Bromide	11.27	910060	944915	944915
5	Nitrate-N	13.53	6100255	6079699	6079699
6	Phosphate-P	16.90	1989759	1919795	1919795
7	Sulfate	19.03	1509227	1511958	1511958



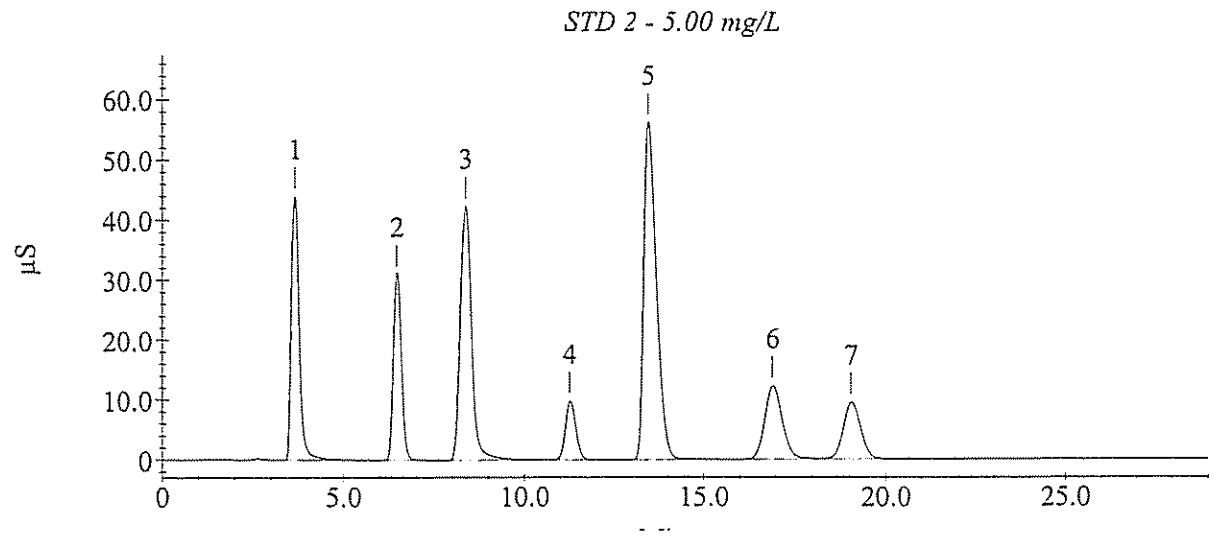
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__010.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:07:45 PM
Calibration Date : 9/18/08 1:46:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	7163728	6799090	6799090
2	Chloride	6.47	4951970	4744908	4744908
3	Nitrite-N	8.37	9622812	9326874	9326874
4	Bromide	11.27	1886735	1941879	1941879
5	Nitrate-N	13.47	13547415	13478598	13478598
6	Phosphate-P	16.90	4333106	4103184	4103184
7	Sulfate	19.03	3220366	3101926	3101926



Calibration Update Report

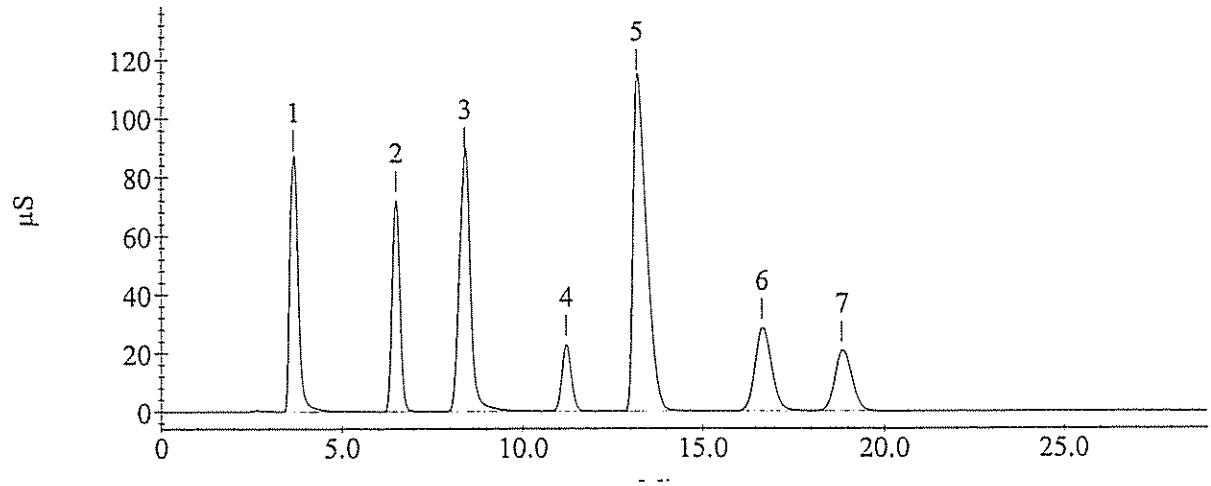
Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__011.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:39:59 PM
Calibration Date : 9/18/08 1:46:56 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	15827968	14197049	14197049
2	Chloride	6.50	12391700	10917702	10917702
3	Nitrite-N	8.40	20828057	18846586	18846586
4	Bromide	11.20	4468055	4224476	4224476
5	Nitrate-N	13.17	32002772	29765135	29765135
6	Phosphate-P	16.63	10155360	9260527	9260527
7	Sulfate	18.83	7254458	6779202	6779202

STD 3 - 10.0 mg/L



Calibration Update Report

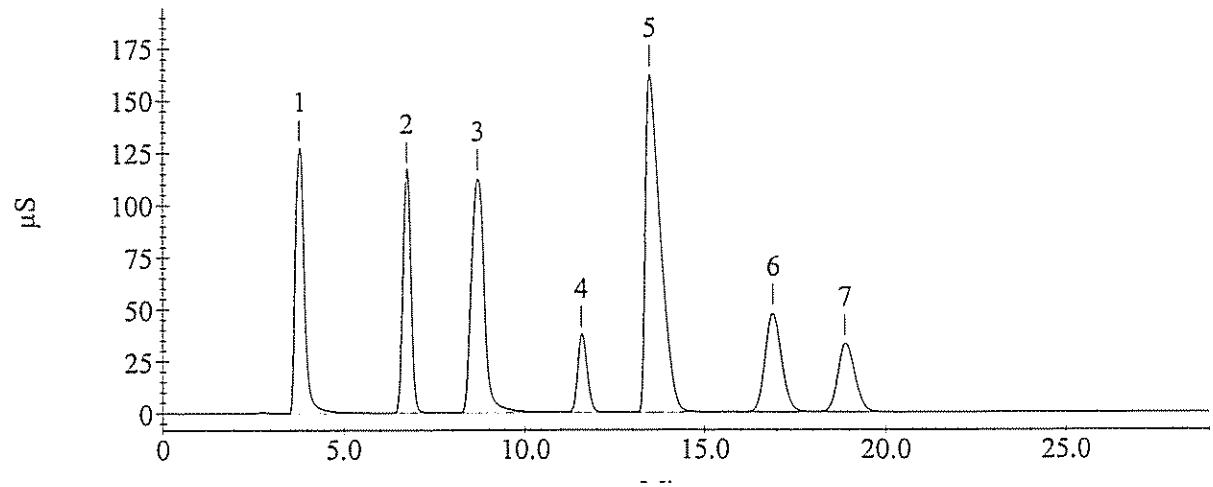
Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__012.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:12:14 PM
Calibration Date : 9/18/08 1:55:13 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.80	22029611	22358309	22358309
2	Chloride	6.73	18865697	18190071	18190071
3	Nitrite-N	8.70	29289300	28434383	28434383
4	Bromide	11.57	7016812	6967382	6967382
5	Nitrate-N	13.47	50292581	46826178	46826178
6	Phosphate-P	16.90	16723468	15093639	15093639
7	Sulfate	18.87	11671317	10793955	10793955

STD 4 - 15.0 mg/L



Calibration Update Report

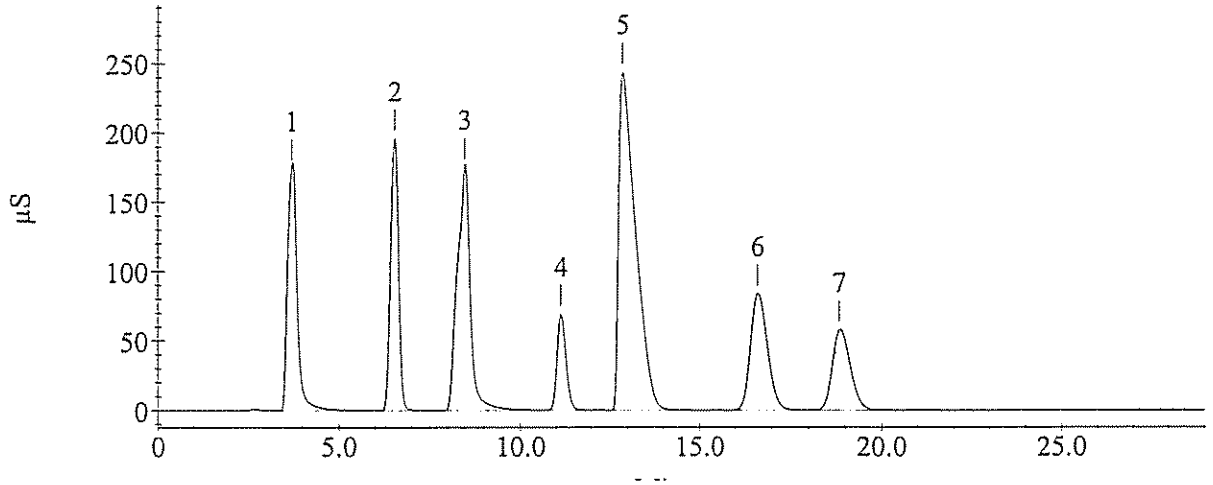
Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__013.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:44:30 PM
Calibration Date : 9/18/08 1:55:31 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.70	33007779	32466619	32466619
2	Chloride	6.53	32580429	30230161	30230161
3	Nitrite-N	8.47	44840173	43008339	43008339
4	Bromide	11.13	12419665	12092529	12092529
5	Nitrate-N	12.87	83601485	79555670	79555670
6	Phosphate-P	16.60	28101078	27314683	27314683
7	Sulfate	18.83	19423982	19585760	19585760

STD 5 - 25.0 mg/L



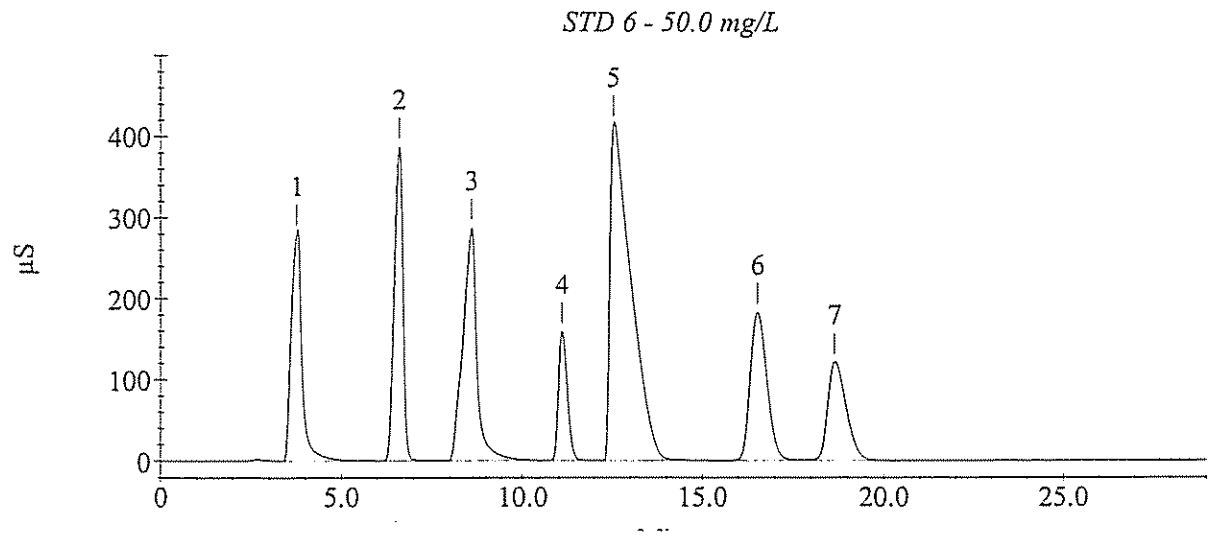
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__014.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 9:16:45 PM
Calibration Date : 9/18/08 1:55:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.77	61202691	59562057	59562057
2	Chloride	6.60	68397328	64997521	64997521
3	Nitrite-N	8.60	78043406	77822760	77822760
4	Bromide	11.10	26985167	27128528	27128528
5	Nitrate-N	12.53	170058779	168531288	168531288
6	Phosphate-P	16.53	60044391	58470285	58470285
7	Sulfate	18.63	41693235	42094125	42094125



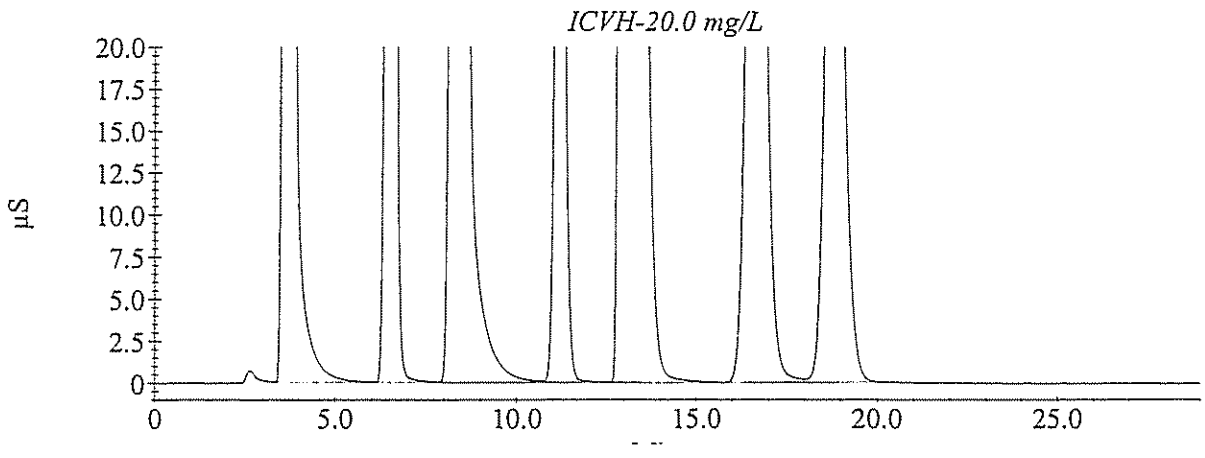
Sample Analysis Report

Sample Name : ICVH-20.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__016.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 9/17/08 10:21:17 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	19.970	27365306	1532443
2	Chloride	6.53	19.882	24486856	1608579
3	Nitrite-N	8.47	22.633	37577280	1419007
4	Bromide	11.17	18.982	9475913	530938
5	Nitrate-N	12.97	19.672	63390755	2049592
6	Phosphate-P	16.60	19.427	21178030	659102
7	Sulfate	18.80	19.274	15149498	460473



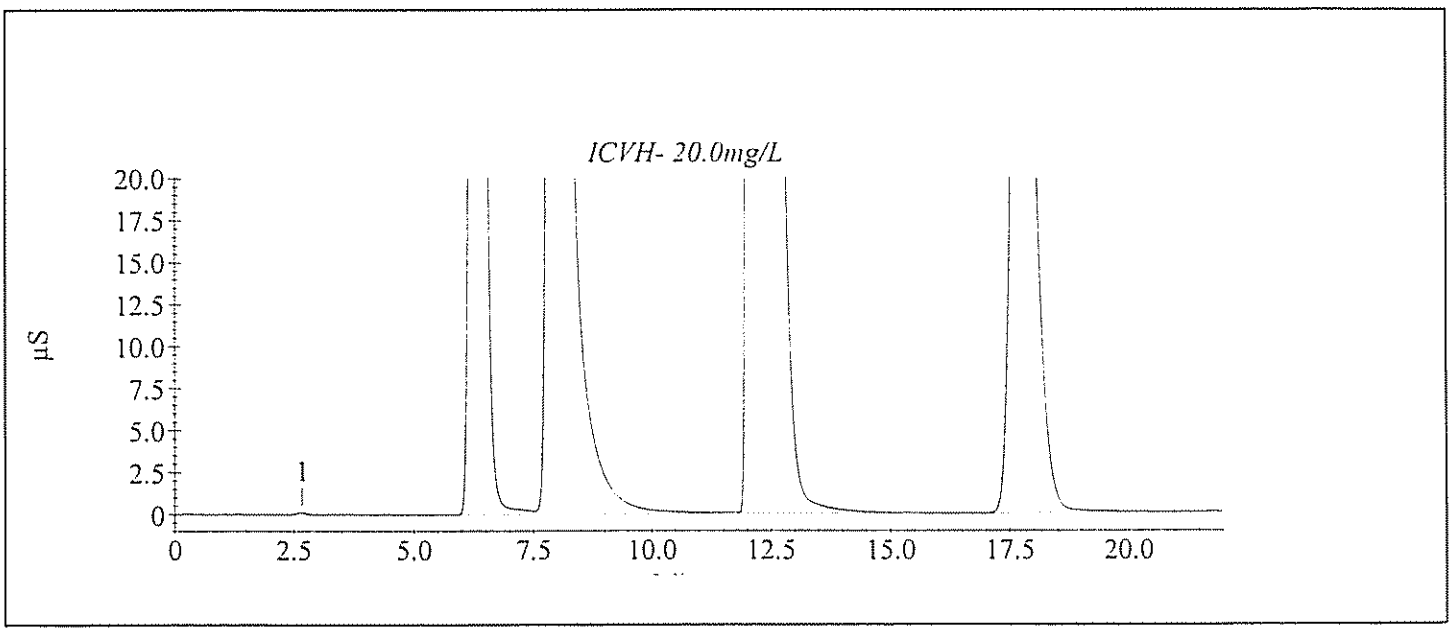
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___003.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917h-300-0.met
Date Time Collected : 3/14/09 11:40:58 AM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	18226	1262
2	Chloride	6.33	21.283	26349406	1622665
3	Nitrite-N Bromide	8.00	23.264	38548484	1651626
4	Nitrate-N Phosphate-P	12.17	21.101	68292046	2290514
5	Sulfate	17.73	20.518	16223454	520070



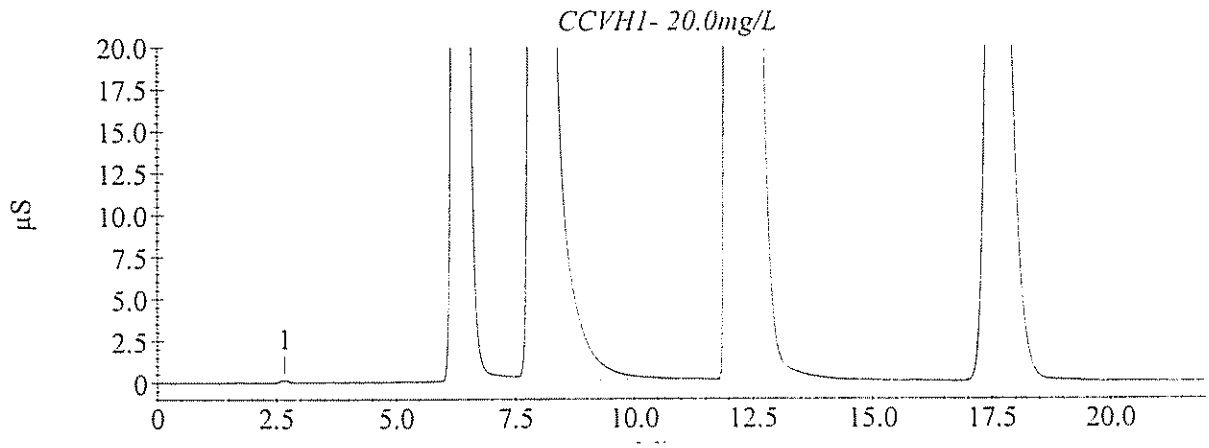
Sample Analysis Report

Sample Name : CCVH1- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___016.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917h-300-0.met
Date Time Collected : 3/14/09 5:07:56 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	21717	1504
2	Chloride	6.37	21.135	26152940	1627135
3	Nitrite-N Bromide	8.00	23.036	38197243	1615935
4	Nitrate-N Phosphate-P	12.10	20.720	66986515	2276982
5	Sulfate	17.63	20.512	16218663	522933



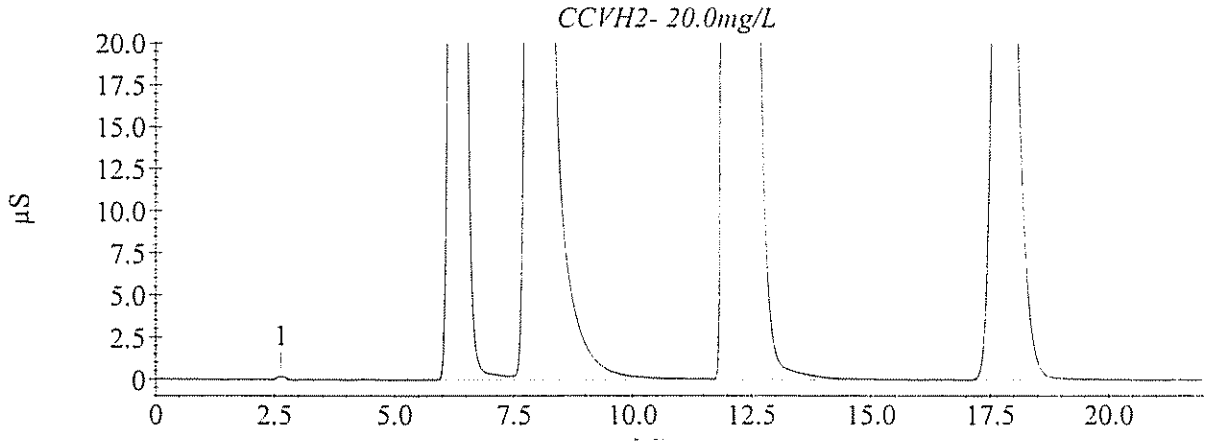
Sample Analysis Report

Sample Name : CCVH2- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090314\090314___021.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/14/09 7:13:35 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	26628	1968
2	Chloride	6.30	21.085	26086251	1563279
3	Nitrite-N Bromide	7.97	23.624	39102663	1428705
4	Nitrate-N Phosphate-P	12.07	20.977	67866382	2313101
5	Sulfate	17.77	20.418	16137366	524733



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

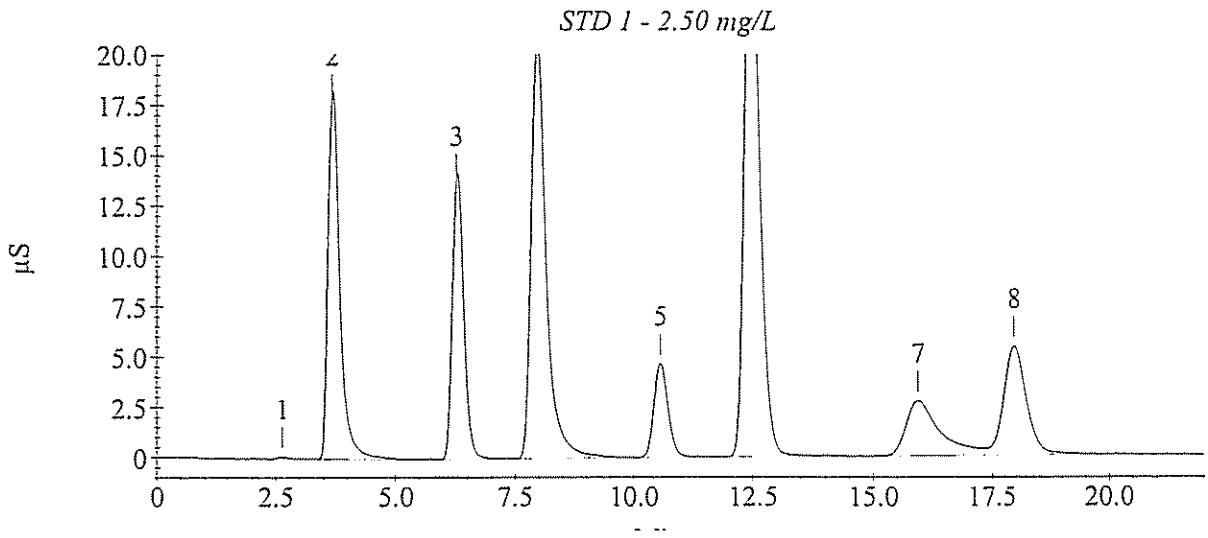
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



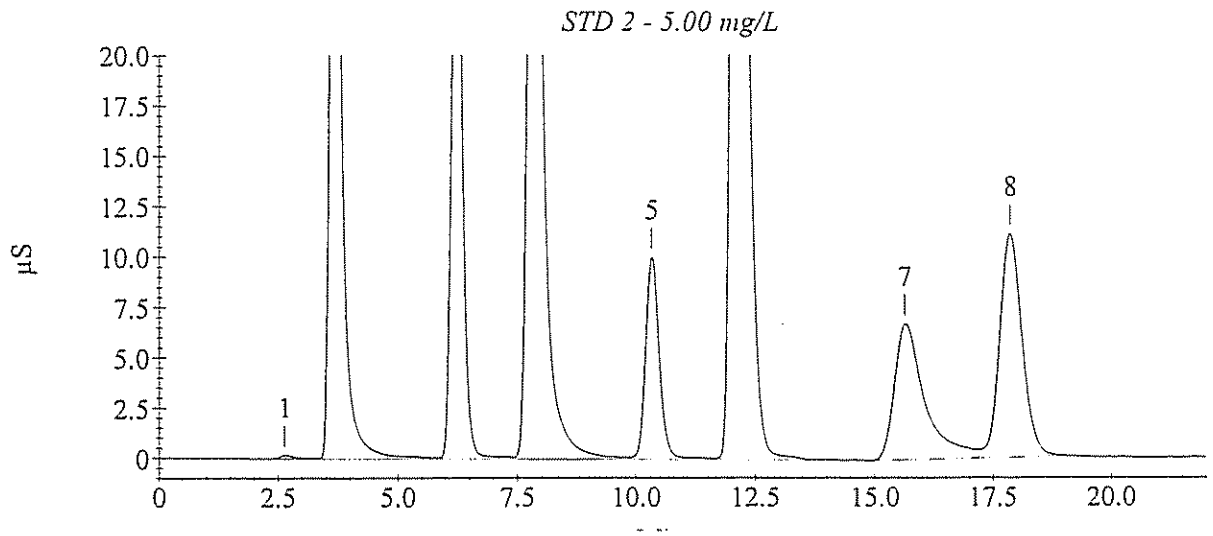
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077



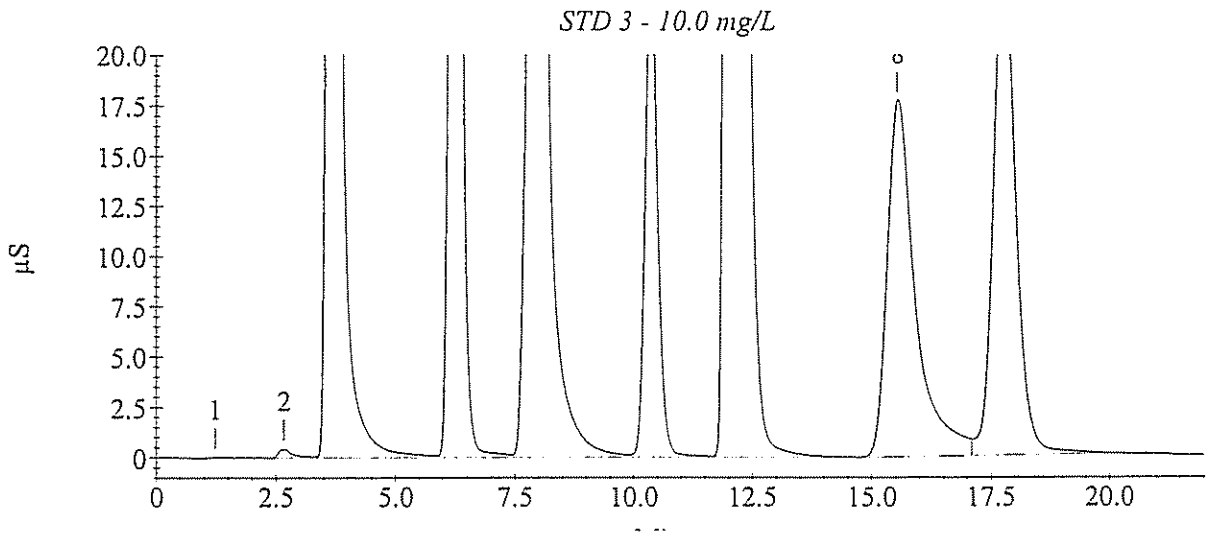
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944



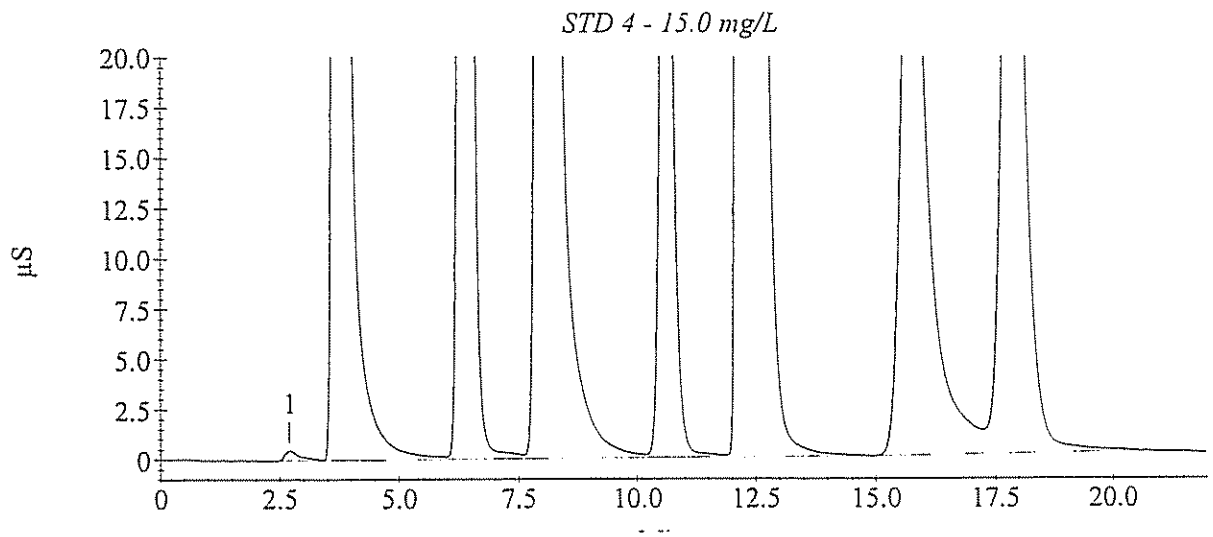
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



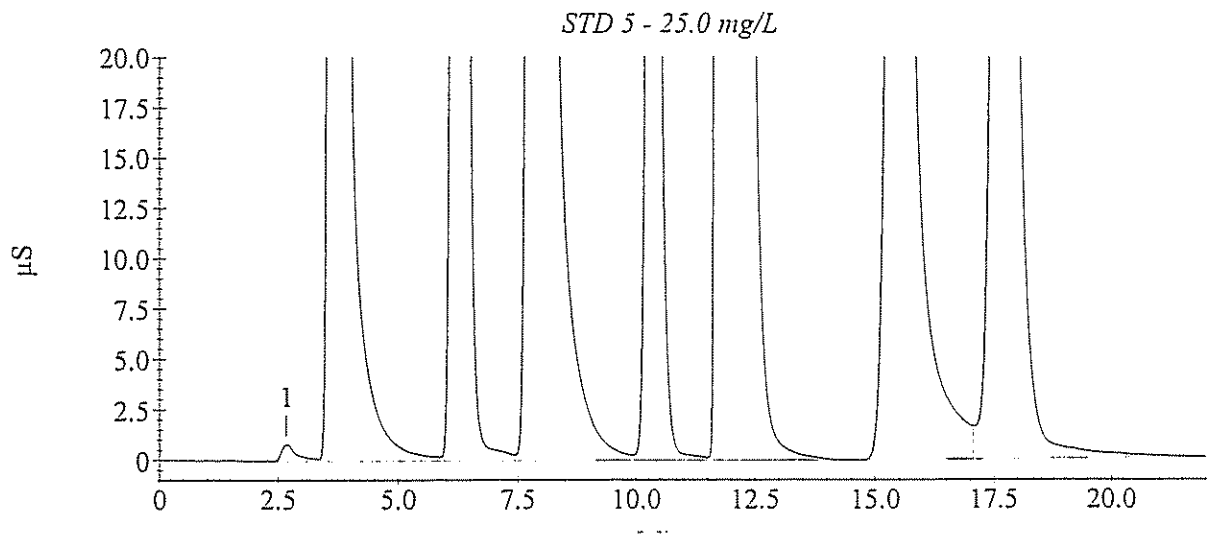
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



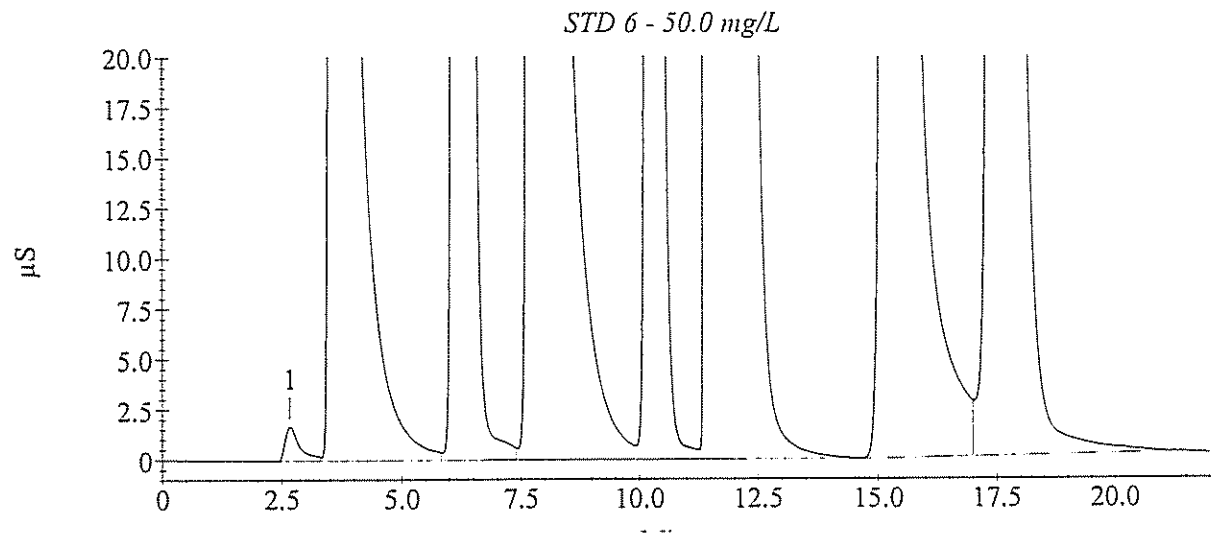
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829



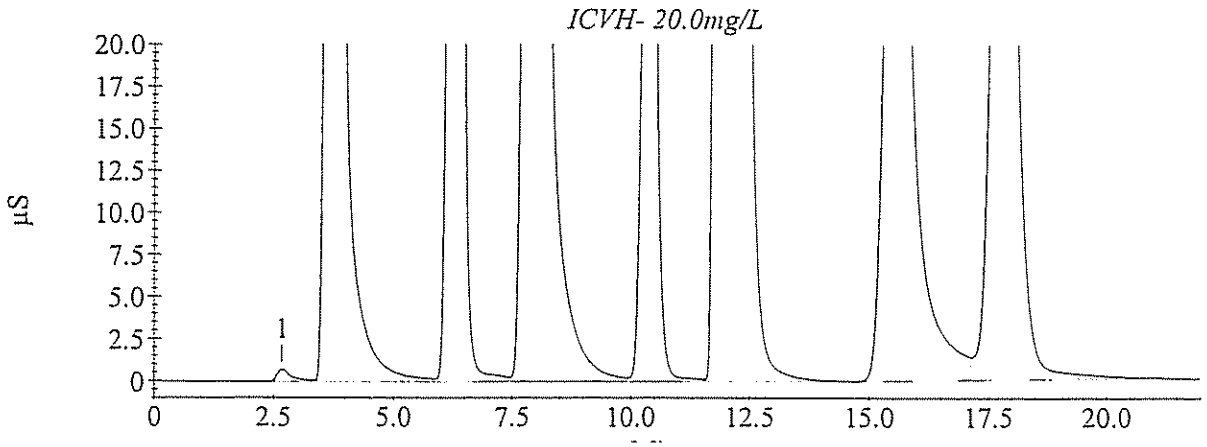
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



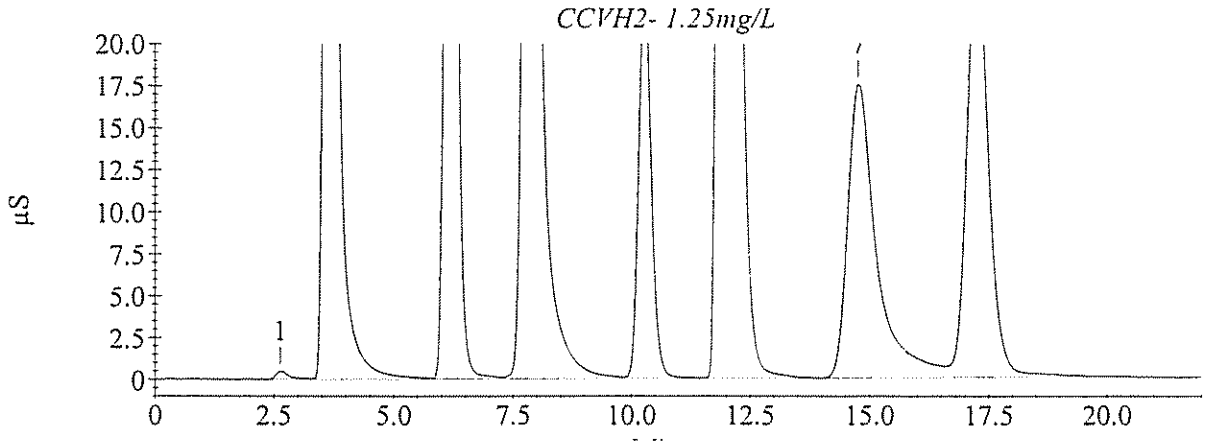
Sample Analysis Report

Sample Name : CCVH2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__024.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/25/09 10:21:41 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	9.743	14015879	755512
3	Chloride	6.17	9.472	11126792	631153
4	Nitrite-N	7.87	12.115	19101071	898419
5	Bromide	10.27	9.440	4327259	230807
6	Nitrate-N	11.93	9.868	31039458	1263760
7	Phosphate-P	14.77	9.478	7276222	174267
8	Sulfate	17.23	9.596	8090855	252967



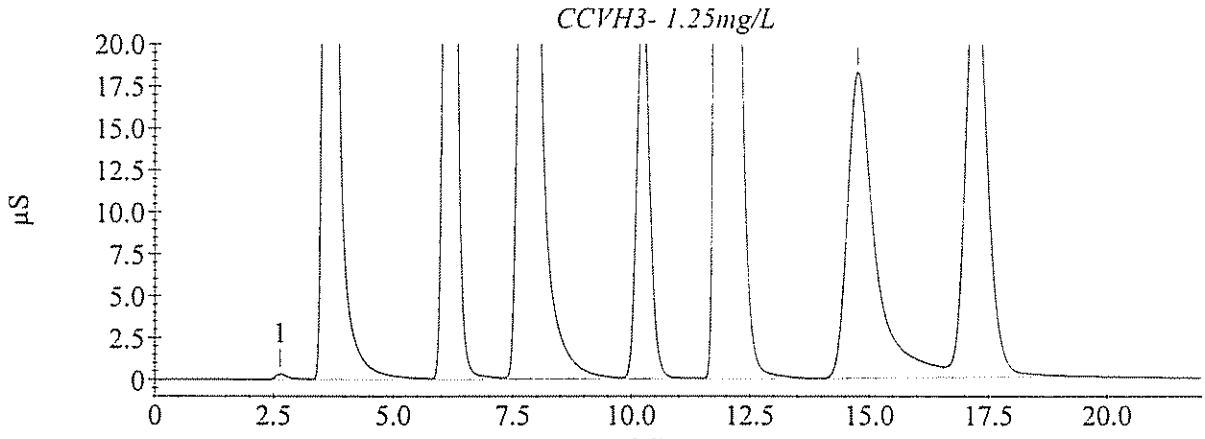
Sample Analysis Report

Sample Name : CCVH3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__037.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 3:47:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	9.671	13912167	763604
3	Chloride	6.17	9.516	11186718	685205
4	Nitrite-N	7.83	12.045	19010762	835902
5	Bromide	10.23	9.404	4306633	228108
6	Nitrate-N	11.90	9.841	30945297	1256793
7	Phosphate-P	14.77	9.517	7318148	182147
8	Sulfate	17.20	9.457	7949216	248531



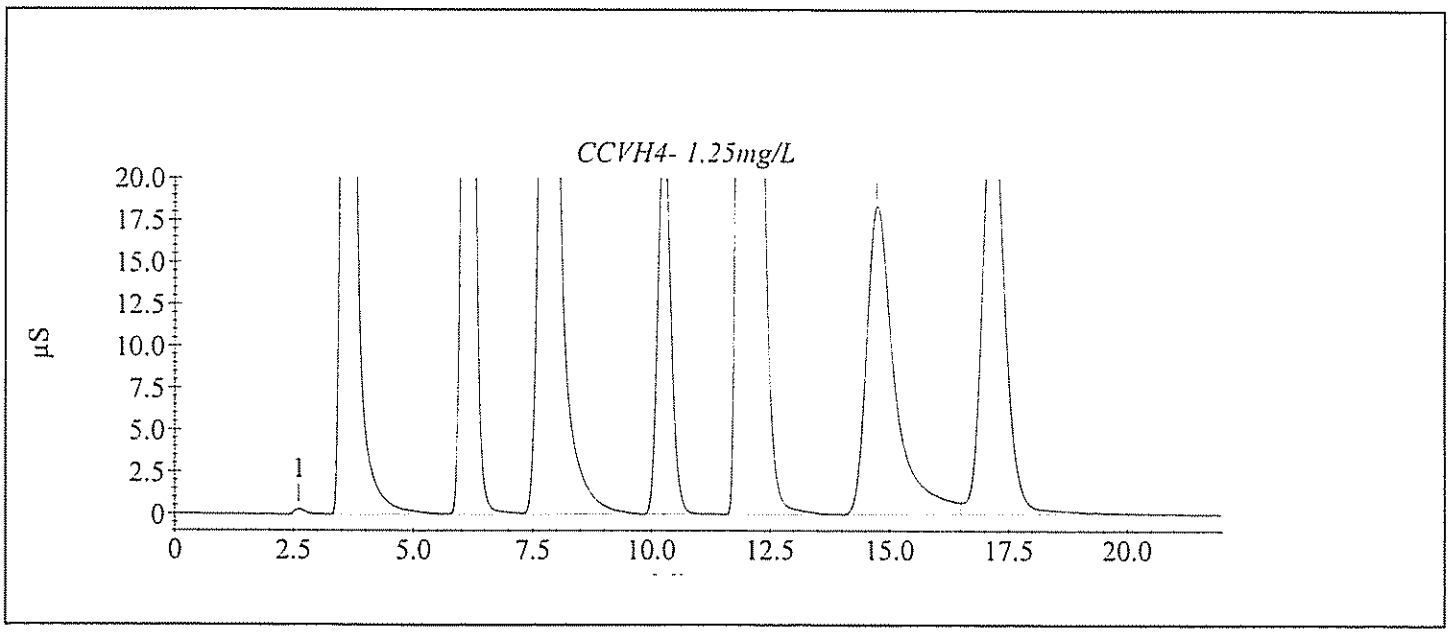
Sample Analysis Report

Sample Name : CCVH4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090325\090325__046.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 7:32:34 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	9.723	13987121	757655
3	Chloride	6.13	9.562	11251043	691702
4	Nitrite-N	7.80	12.076	19050948	851488
5	Bromide	10.27	9.473	4346222	230035
6	Nitrate-N	11.93	10.008	31535639	1238138
7	Phosphate-P	14.73	9.678	7493663	182812
8	Sulfate	17.13	9.701	8198816	251245



D. Raw QC Data

1. Extraction Logsheet (where applicable)
2. Injection Logsheet (where applicable)

GPL Laboratories, LLLP

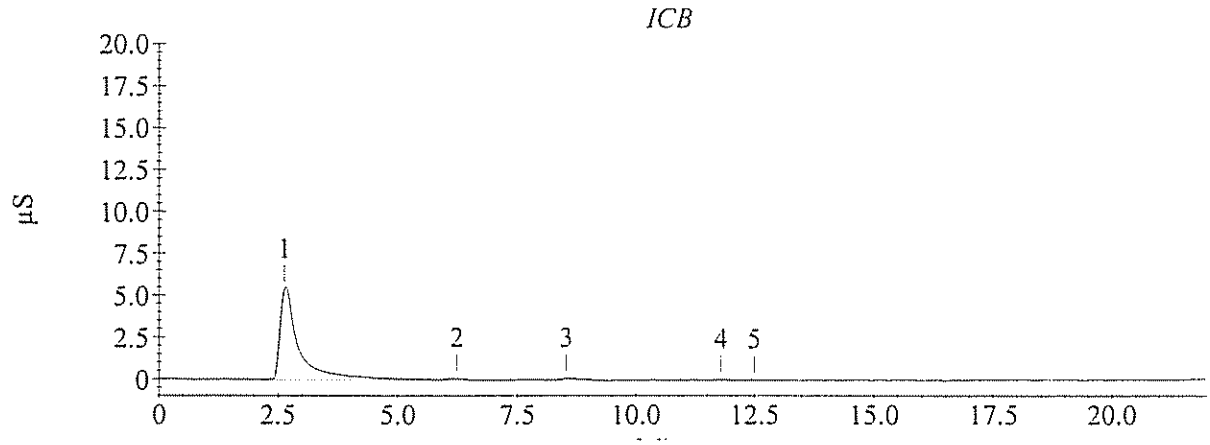
Sample Analysis Report

Sample Name : ICB
Data File Name : I:\ICDATA\IC500\090314\090314___004.DXD

Method File Name : h:\icdata\methods\method 300\0809171-300-0.met
Date Time Collected : 3/14/09 12:06:07 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.63	1.219	1530277	53665
2	Chloride	6.23	0.049	26423	1018
3	Nitrite-N	8.53	0.052	40654	1033
4	Bromide	11.80	0.042	8782	493
5	Nitrate-N	12.50	0.069	5727	291
	Phosphate-P				
	Sulfate				



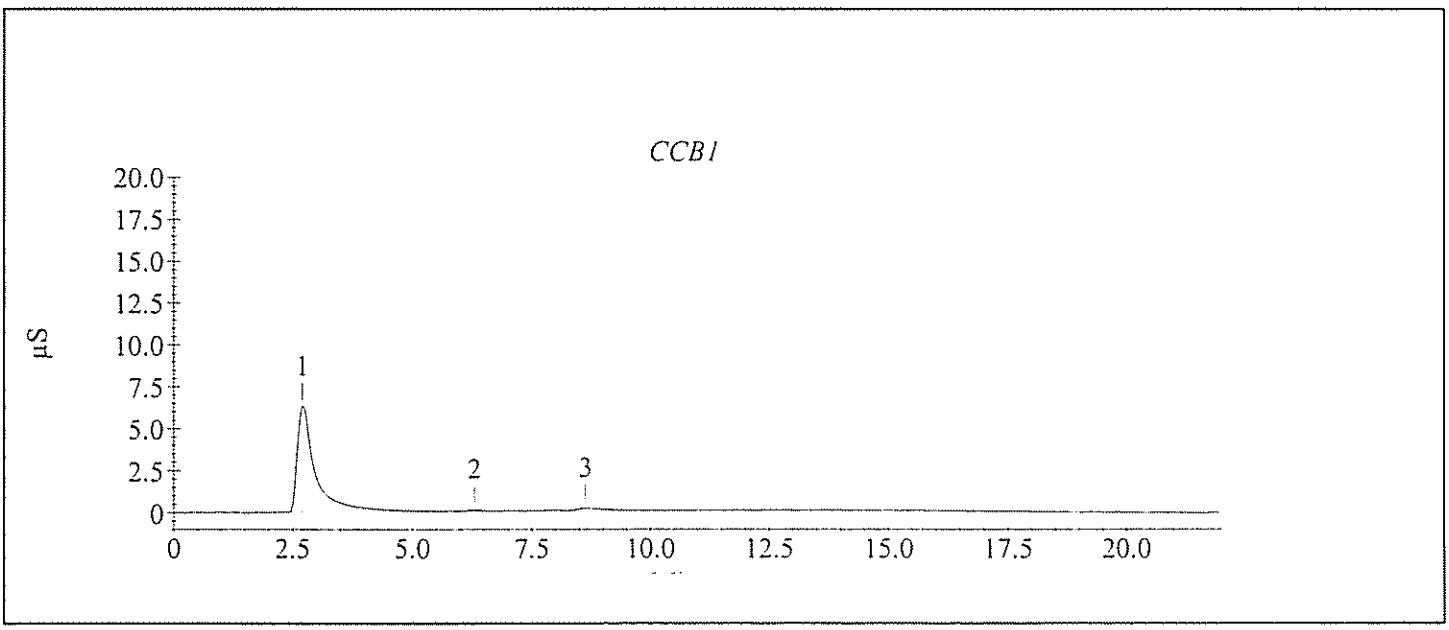
Sample Analysis Report

Sample Name : CCB1
Data File Name : I:\ICDATA\IC500\090314\090314___017.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/14/09 5:33:03 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.321	1663059	62312
2	Chloride	6.30	0.033	12596	652
3	Nitrite-N	8.63	0.058	52410	1336
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



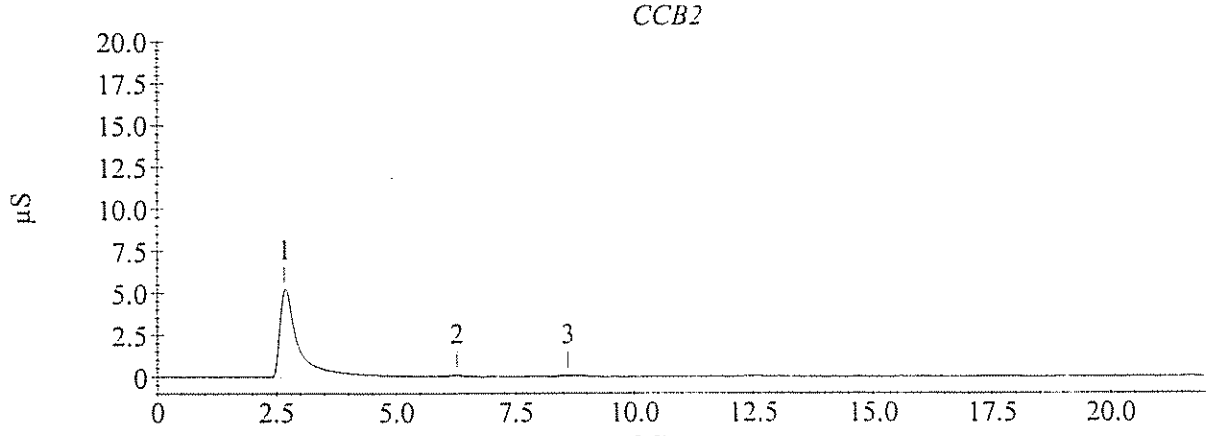
Sample Analysis Report

Sample Name : CCB2
Data File Name : I:\ICDATA\IC500\090314\090314___022.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/14/09 7:38:44 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.148	1438508	51191
2	Chloride	6.27	0.052	28354	1026
3	Nitrite-N	8.60	0.048	34651	912
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



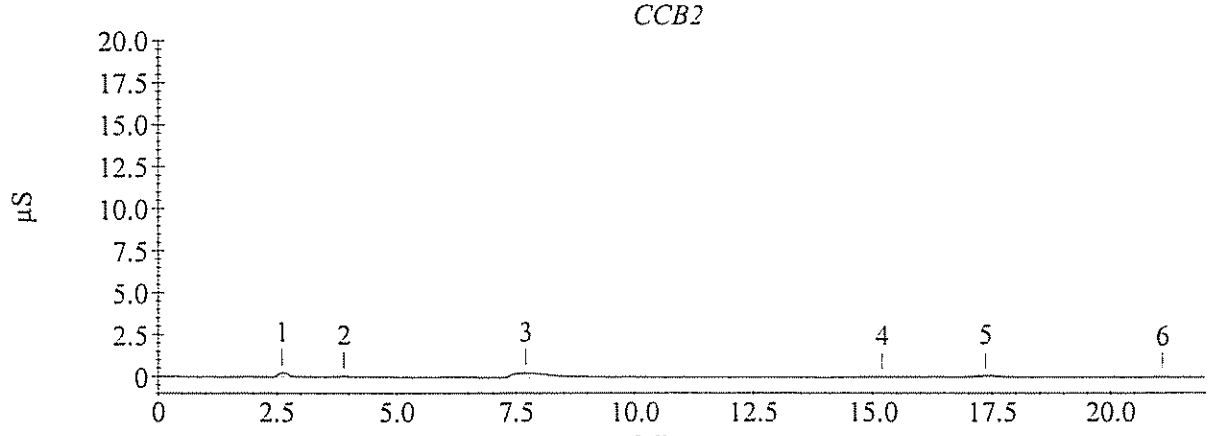
Sample Analysis Report

Sample Name : CCB2
Data File Name : I:\ICDATA\IC500\090325\090325__025.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/25/09 10:46:46 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride Chloride	3.90	0.015	6635	457
3	Nitrite-N Bromide Nitrate-N	7.70	0.058	139676	2568
4	Phosphate-P	15.20	0.065	10955	227
5	Sulfate	17.37	0.043	37220	1037



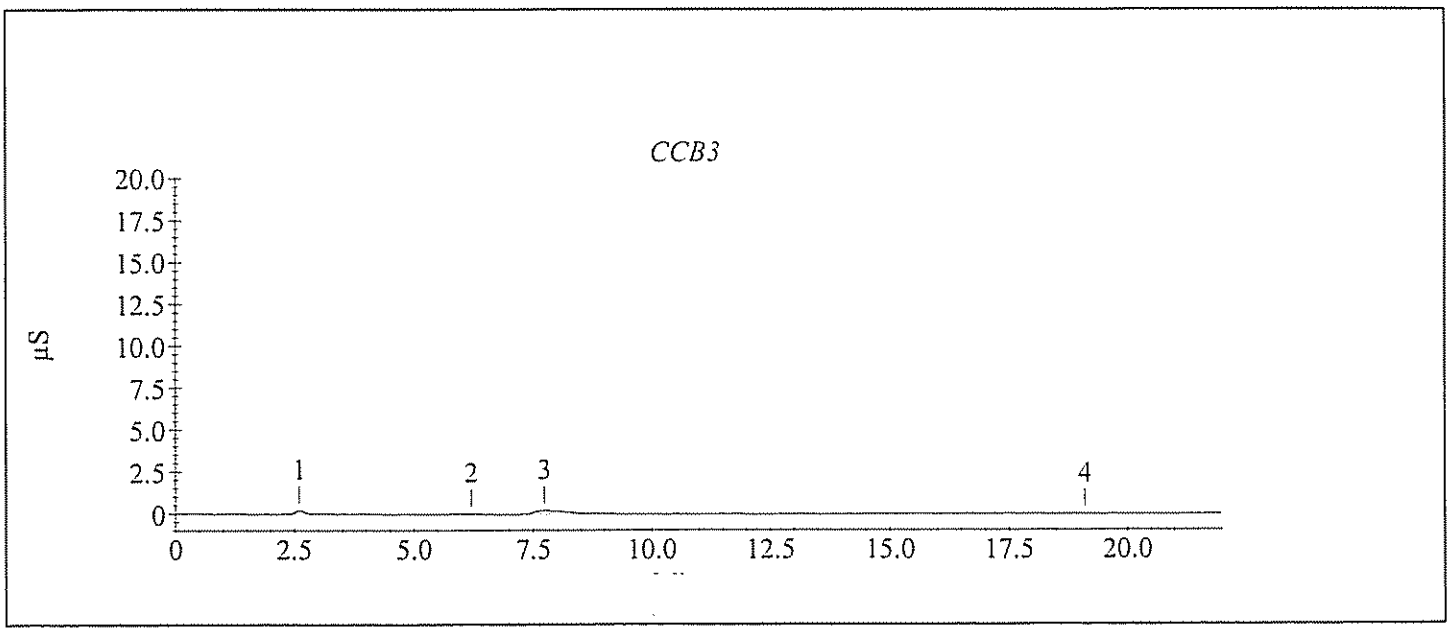
Sample Analysis Report

Sample Name : CCB3
Data File Name : I:\ICDATA\IC500\090325\090325__038.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/26/09 4:12:07 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	27989	1953
2	Chloride	6.20	0.025	8154	409
3	Nitrite-N	7.73	0.036	100379	2047
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



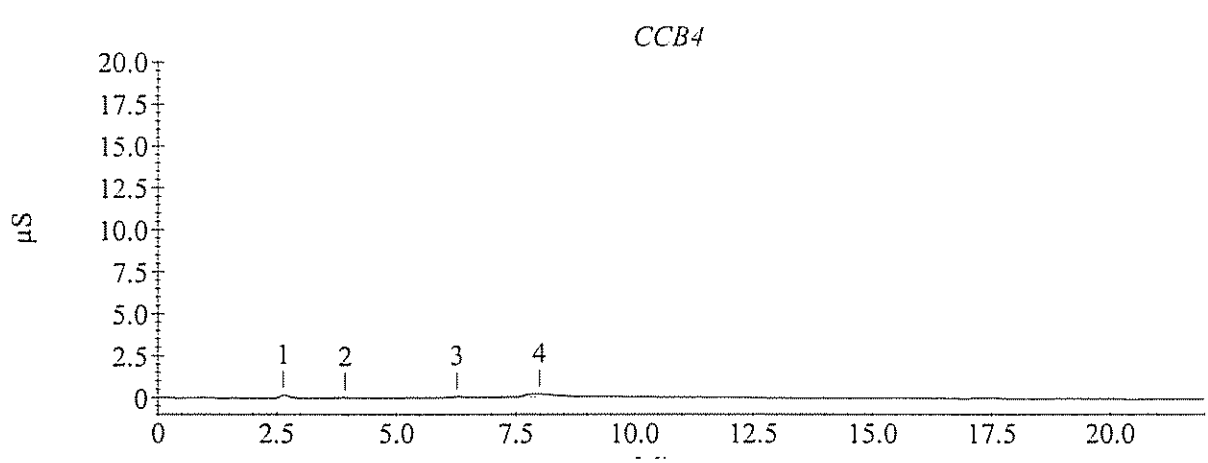
Sample Analysis Report

Sample Name : CCB4
Data File Name : I:\ICDATA\IC500\090325\090325__047.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/26/09 7:57:38 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.93	0.020	12125	493
3	Chloride	6.27	0.054	35149	885
4	Nitrite-N	8.00	0.032	93796	1809
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



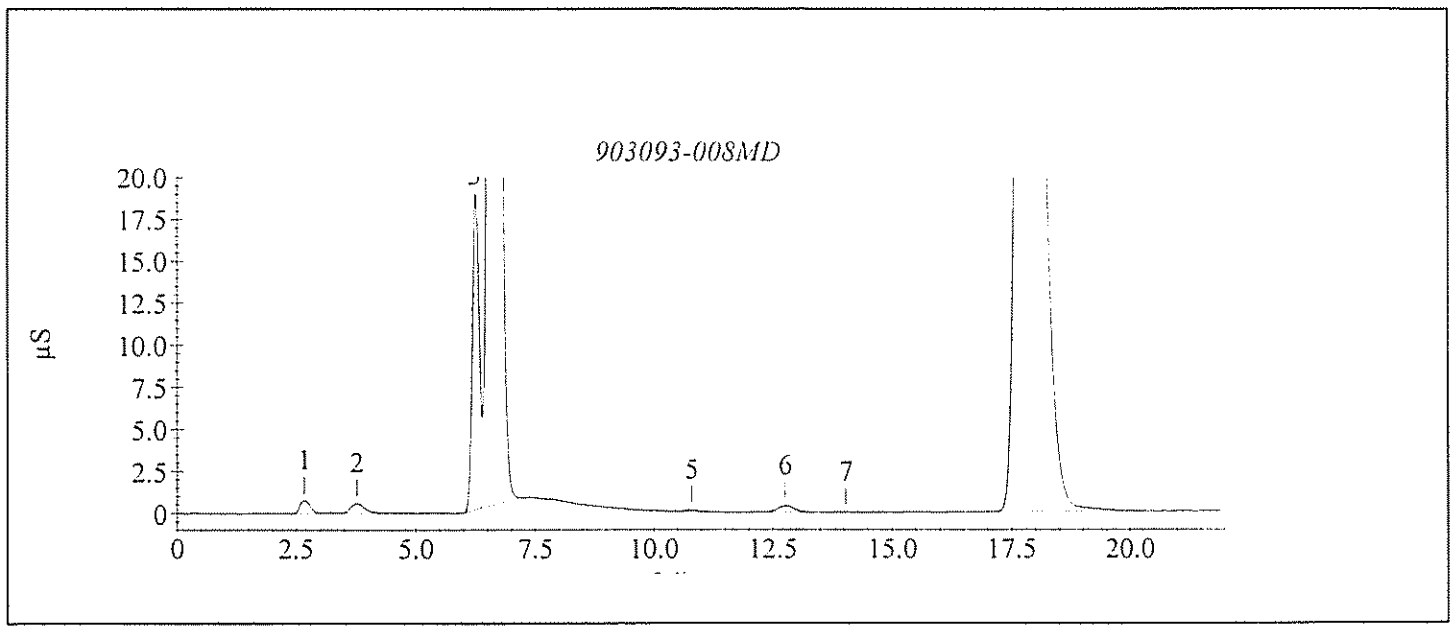
Sample Analysis Report

Sample Name : 903093-008MD
Data File Name : I:\ICDATA\IC500\090314\090314___018.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917I-300-0.met
Date Time Collected : 3/14/09 5:58:12 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.77	0.131	117685	5638
3	Chloride	6.23	2.090	1774779	174703
	Nitrite-N				
5	Bromide	10.80	0.067	17954	886
6	Nitrate-N	12.77	0.104	92714	3728
	Phosphate-P				
8	Sulfate	17.83	44.077	27085408	879258



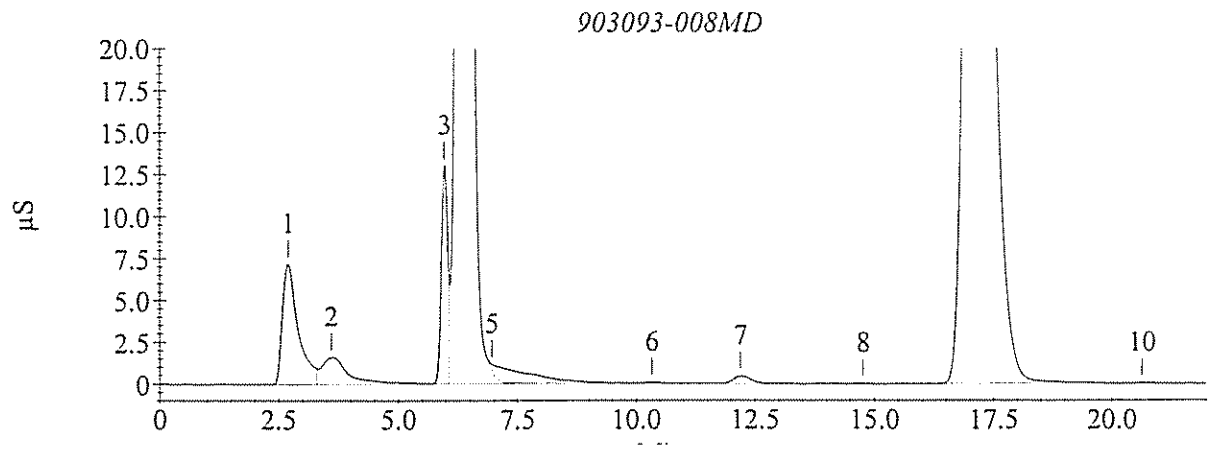
Sample Analysis Report

Sample Name : 903093-008MD
Data File Name : I:\ICDATA\IC500\090325\090325__039.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 4:37:11 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	1.013	643354	16021
4	Chloride Nitrite-N	6.43	19.118	24392508	1456154
6	Bromide Nitrate-N Phosphate-P	10.33	1.940	15107	704
9	Sulfate	17.13	25.913	24789694	697428



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-038-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/14/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	1.0	
7727-37-9	Nitrite	1.3	

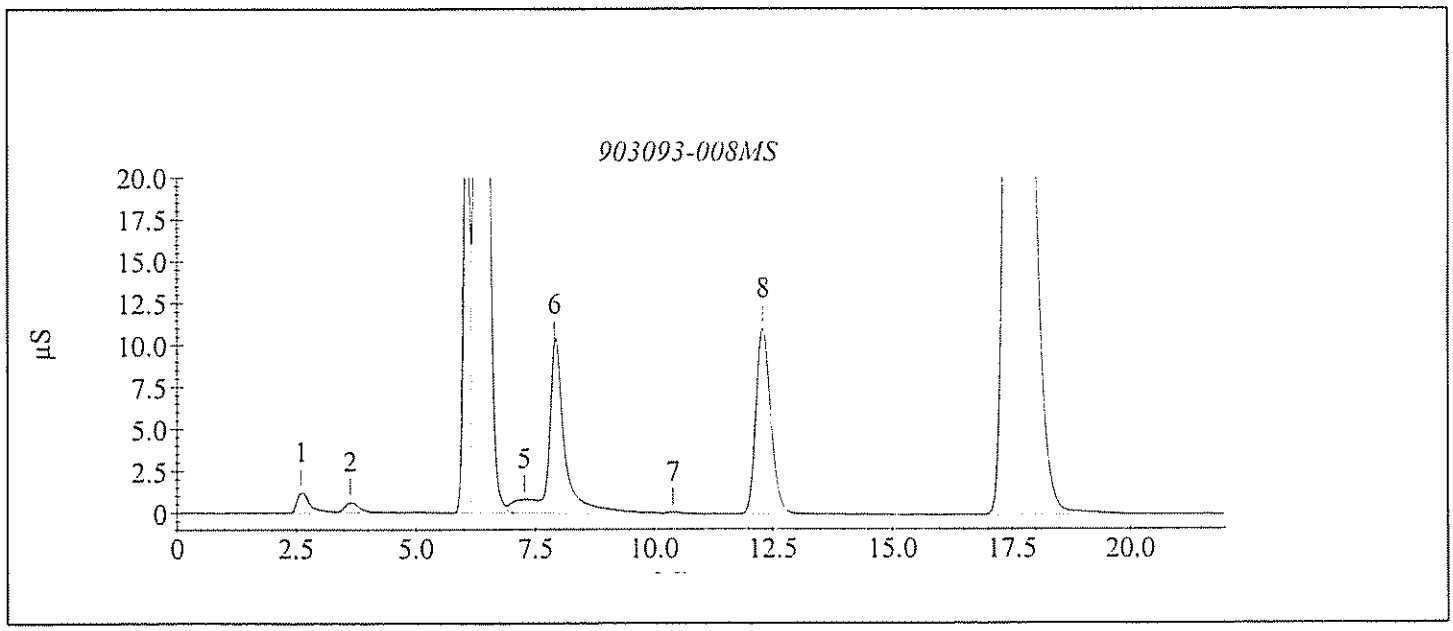
Sample Analysis Report

Sample Name : 903093-008MS
Data File Name : I:\ICDATA\IC500\090314\090314___019.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/14/09 6:23:17 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	0.147	138949	6001
4	Chloride	6.40	21.875	18724712	1384858
6	Nitrite-N	7.90	1.296	2249945	99951
7	Bromide	10.40	0.082	23548	1030
8	Nitrate-N Phosphate-P	12.30	1.047	2417779	110364
9	Sulfate	17.60	44.420	27296509	870519



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-038-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/14/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/26/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	30	

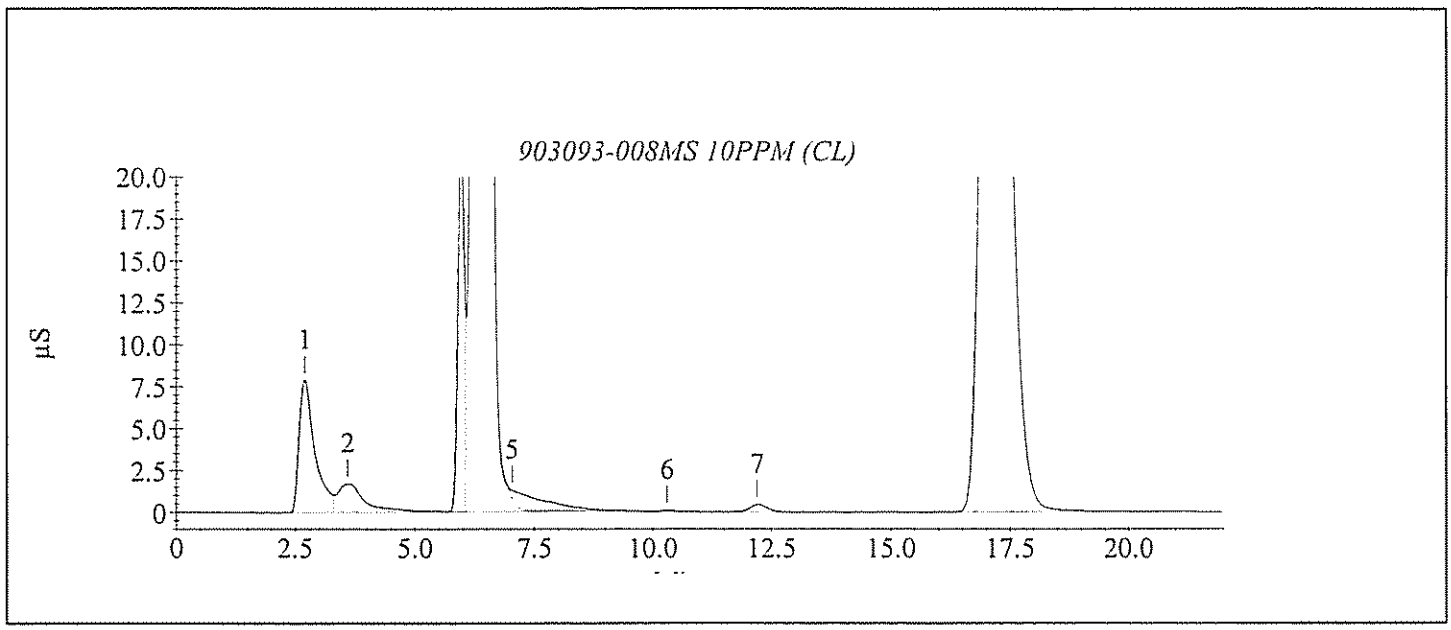
Sample Analysis Report

Sample Name : 903093-008MS 10PPM (CL)
Data File Name : I:\ICDATA\IC500\090325\090325__040.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/26/09 5:02:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	1.024	660815	16925
4	Chloride Nitrite-N	6.47	29.681	38920400	2193593
6	Bromide Nitrate-N Phosphate-P	10.30	1.946	18325	812
8	Sulfate	17.13	25.222	24082879	660057



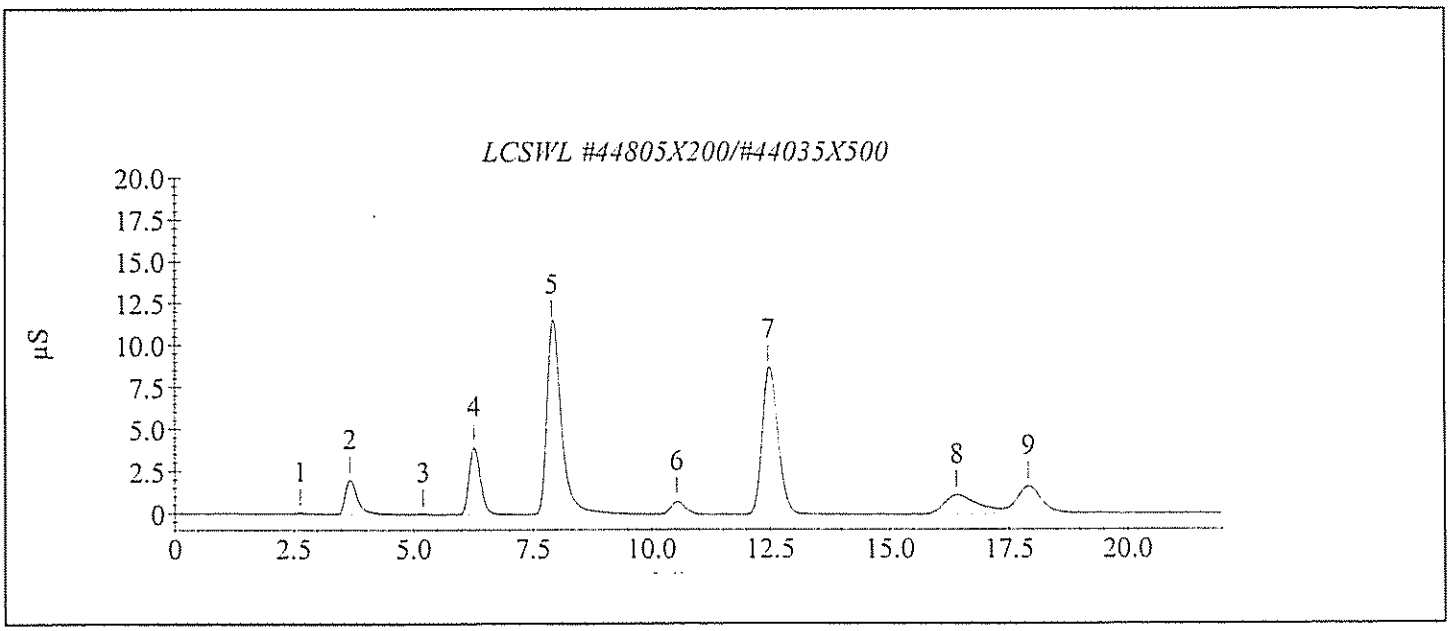
Sample Analysis Report

Sample Name : LCSWL #44805X200/#44035X500
Data File Name : I:\ICDATA\IC500\090314\090314___005.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/14/09 12:31:16 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.323	367103	19793
4	Chloride	6.27	0.788	659631	39485
5	Nitrite-N	7.90	1.419	2467564	112301
6	Bromide	10.53	0.464	163451	7471
7	Nitrate-N	12.47	0.880	2005717	85893
8	Phosphate-P	16.40	0.743	552399	11318
9	Sulfate	17.90	0.977	586096	15972



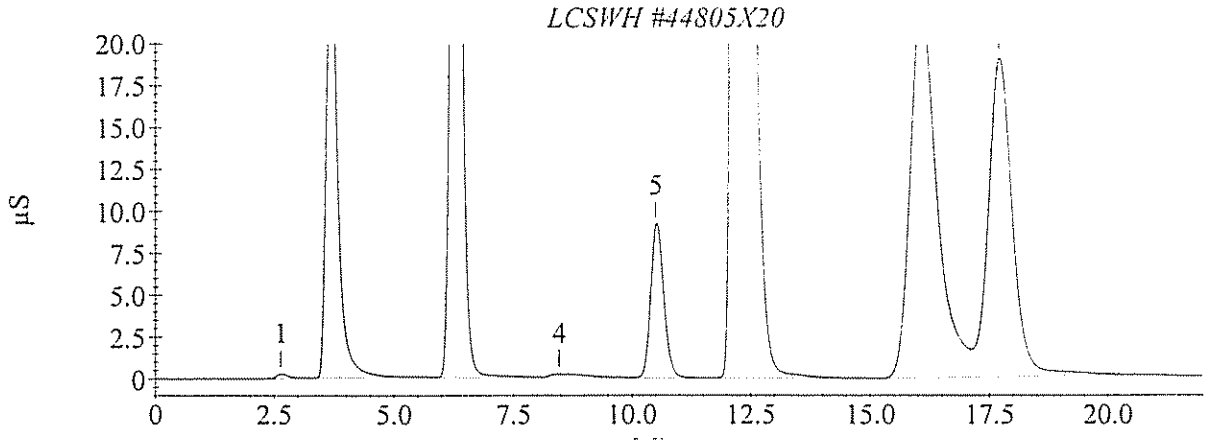
Sample Analysis Report

Sample Name : LCSWH #44805X20
Data File Name : I:\ICDATA\IC500\090314\090314___006.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917h-300-0.met
Date Time Collected : 3/14/09 12:56:26 PM
System Operator : CH

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	3.196	4316292	243417
3	Chloride	6.30	7.775	8396802	526823
	Nitrite-N				
5	Bromide	10.50	5.116	1763689	90333
6	Nitrate-N	12.23	9.269	27718557	1132545
7	Phosphate-P	16.07	9.079	8723622	223863
8	Sulfate	17.70	9.474	6688395	189409



ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date: _____

Analytes(s):	F, Cl, NO_2-N, Br, NO_3-N, PO_4, SO_4
Analysis Method:	E300
Backpressure:	2031 psi Conductivity: 23.068 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	—

Guard Column ID:	AG9-HC # 013201
Analysis Column ID:	AS9-HC # 012518
ATC ID:	N/A

ICAL Method File: 080917L-300.met / 080917H-300.met ICAL Date: 9/17/08 Analyst: JCSA

Seq. ID. 080917-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
080917-001.dxd	Rinse				
2	Rinse				
3	Std1 - Cal Blank	1	Std	9/17/08	080917L
4	Std 2 - 0.10 mg/L	1			
5	Std 3 - 0.25 mg/L	1			
6	Std 4 - 0.50 mg/L	1			
7	Std 5 - 1.00 mg/L	1			
8	Std 6 - 2.50 mg/L	1			↓
9	Std 1 - 2.50 mg/L	1			080917H
10	Std 2 - 5.00 mg/L	1			
11	Std 3 - 10.0 mg/L	1			
12	Std 4 - 15.0 mg/L	1			
13	Std 5 - 25.0 mg/L	1			
14	Std 6 - 50.0 mg/L	1			↓
15	ICVL - 1.25 mg/L	1			
16	ICVH - 20.0 mg/L	1			
17	ICB	1	↓		
18	LCSWL #43967x125 / #44035x500	125/500			
19	LCSWH #43967 x 10	10	↓	↓	
20	809080-001	1	H_2O	9/18/08	
21	-001MD	1			
22	-001MS	1	↓		
23	CCVL1 - 1.25 mg/L	1	Std		
24	CCVH1 - 20.0 mg/L	1			
080917-025.dxd	CCB1	1	↓	↓	

Remarks

★ #43967 N.V.'s (mg/L)

F = 40.6
Cl = 264
NO_3-N = 82.4
SO_4 = 202

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate eluent	43991 9mM 8/25/08
Mixed Anions Stock Std	43504 100 PPM 6/26/08
Mixed Anions QC Std	43967 ★ exp's 7/1/10
Nitrate QC Std	44035 732 mg/L exp's 8/1/10
Mixed Anions ~~Std~~ Stock Std (ICV)	44123 100 PPM 9/17/08

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	F, Cl, SO_4, Br, NO_3-N, PO_4-P, NH_2-N
Analysis Method:	E300
Backpressure:	2200 psi Conductivity: 23.741 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC # 013201
Analysis Column ID:	AS9-HC # 012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.met / 090318H-300-0.met ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090318-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090318-001.dxd	Rinse	—	—	—	
2	ICVLA - 1.25 mg/L	1	Std	3/18/09	
3	ICVLB - 1.25 mg/L	1	↓	↓	
4	ICB	1			
5	Std1 - BLK	1			090318L
6	Std2 - 0.10 mg/L	1			
7	Std3 - 0.25 mg/L	1			
8	Std4 - 0.50 mg/L	1			
9	Std5 - 1.00 mg/L	1			
10	Std6 - 2.50 mg/L	1			↓
11	Std1 - 2.50 mg/L	1			090318H
12	Std2 - 5.00 mg/L	1			
13	Std3 - 10.0 mg/L	1			
14	Std4 - 15.0 mg/L	1			
15	Std5 - 25.0 mg/L	1			
16	Std6 - 50.0 mg/L	1			↓
17	ICVL - 1.25 mg/L	1			
18	ICVH - 24.0 mg/L	1			
19	ICB	1	↓		
20	BLK903095	1	Wipe		
21	BLS903095	1	↓		
22	903095-001	1			
23	BLK903105	1			
24	BLS903106	1			
25	903105-001	1			
26	↓ -002	1		↓	
090318-027.dxd	↓ -003	1	↓	3/18/09	

Remarks

☆ # 45307 [I.V.'s (mg/L)]
Cl: 157.8
NO_3-N: 187.2
SO_4: 168.6

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45373 9 mM 3/12/09
Mixed Anions Stock Std (curve)	45405 100 mg/L 3/18/09
Mixed Anions Stock Std (ICV/CV)	45026 100 mg/L 1/26/09
Mixed Anions QC Std	45307 ☆ exp's 11/1/11
Nitrate QC Std	44035 732 mg/L exp's 8/1/10

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N
Analysis Method:	E300
Backpressure:	2196 psi Conductivity: 23.56 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #012001
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 080917L-300.mcd / 080917H-300.mcd ICAL Date: 9/17/08 Analyst: JLCA

Seq. ID. 090314-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090314-001.dxd	Rinse	—	—	—	
2	ICVL-1.25 mg/L	1	Std	3/14/09	
3	ICVH-20.0 mg/L	1			
4	ICB	1			
5	LCSWL #44805x200/#44035x500	200/500			
6	LCSWH #44805x20	20	↓		
7	903093-001	1	H2O		
8	-002	1			
9	-003	1			
10	-004	1			
11	-005	1			
12	-006	1			
13	-007	1			
14	-008	1	↓		
15	CCVL1-1.25 mg/L	1	Std		
16	CCVH1-20.0 mg/L	1			
17	CCB1	1	↓		
18	903093-008MD	1	H2O		
19	↓ -008MS	1	↓		
20	CCVL2-1.25 mg/L	1	Std		
21	CCVH2-20.0 mg/L	1		N/	
090314-022.dxd	CCB2	1	↓	3/14/09	

Remarks ★ #44805 T.V.'s (mg/L)
Cl = 158
NO_3-N = 187

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45373 9mM 3/12/09
Mixed Anion Stock std	45325 100 mg/L 3/5/09
Mixed Anion RC std	44805 ★ exp's 1/1/11
Nitrite RC Std	44035 732 mg/L exp's 8/1/10

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N, SO_4
Analysis Method:	6300
Backpressure:	2427 µS Conductivity: 2187 psi
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #013201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.mth / 090318H-300-0.mth ICAL Date: ~~3/9~~ 3/18/09 Analyst: JCSA

Seq. ID. 090325-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090325-001.dxd	Rinse	✓	✓	✓	
2	ICVL-1.25	1	Std	3/25/09	
3	ICB	1	↓		
4	903106-005 5x	5	wipe		
5	-005 10x	10			
6	-010 5x	5			
7	-011 5x	5			
8	-012 5x	5	↓		
9	LCSd #44307 x200/#44035 x500	200/500	Std		
10	CCVL1-1.25 mg/L	1			
11	CCVH1-10.0 mg/L	1			
12	CCB1	1			
13	LCSWH #44307 x20	20	↓		
14	903182-001	1	H_2O		
15	-002	1			
16	-003	1			
17	-004	1			
18	-005	1			
19	-006	1			
20	-006MD	1			
21	-006MS	1	↓		
22	903141-003 5x	5	wipe		
23	CCVL2-1.25 mg/L	1	Std		
24	CCVH2-10.0 mg/L	1			
25	CCB2	1	↓		
26	903141-004 5x	5	wipe		
090325-027.dxd	903052-002	1	H_2O	3/25/09	

Remarks #44307 T.V.'s (mg/L)
Cl = 157.8
NO_3-N = 187.2
SO_4 = 158.6

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45140 9mM 3/21/09
Mixed Anion Stock Std	45405 100 mg/L 3/18/09
Mixed Anion QC Std	#44307 ★ exp's
Nitrate QC Std	#44035 752 mg/L exp'd
Chloride Stock Std	43551 1000 mg/L exp's 4/1/10
Sulfate Stock Std	43599 1000 mg/L exp's 1/1/11

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: **Dionex 500** Reviewed By:_____ Review Date: _____

Analytes(s):	Cl, NO_3-N, NO_2-N, SO_4
Analysis Method:	E300.1
Backpressure:	2427 psi Conductivity: 2187 psi
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	/
Eluent level check:	✓

Guard Column ID:	
Analysis Column ID:	See p. 46
ATC ID:	

ICAL Method File: 090318L-300-0.mcf / 090318H-300-0.mcf ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090325-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090325-028.dxd	903057-002MD	1	H_2O	3/26/09	
29	↓ -002MS 10ppm(SO_4)	1			
30	903062-005	1			
31	-005MD	1			
32	-005 MS	1			
33	↓ -005 MS 10ppm(Cl)	1			
34	903093-007 10X	10			
35	↓ -007	1	↓		
36	CCVL3 - 1.25 mg/L	1	Std		
37	CCVH3 - 10.0 mg/L	1			
38	CCB3	1	↓		
39	903093-008MD	1	H_2O		
40	↓ -008MS 10ppm(Cl)	1			
41	903071-002	1			
42	-002MD	1			
43	-002MS	1			
44	↓ -002MS 10ppm(Cl)	1	↓		
45	CCVL4 - 1.25 mg/L	1	Std		
46	CCVH4 - 10.0 mg/L	1		↓	
090325-047.dxd	CCB4	1	↓	3/26/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
	See p. 46	

SAMPLE DATA PACKAGE

RSK 175 DATA

A. QC Summary

B. Sample Data

C. Standards Data

D. Raw QC Data

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OUI-16GW01-0309MSD

Lab Name : GPL Laboratories SDG NO : 903062 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903062-006-032-1/2MSD Matrix : WATER Analysis Date : 03/20/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	31	31	0.0	30	29	97	94	3	25	80-120
Ethene	29	29	0.0	26	25	90	86	5	25	80-120
Methane	16	16	0.0	16	16	100	100	0	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 0 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108833

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Lab File ID :	G262618.D	SDG NO :	903093
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108833
GC Column :	ID. RTX_VC	Time Analyzed :	07:28

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW32-0309	903093-003-051-1/2	G262638.D	13:26
OU1-MW38-0309	903093-001-047-1/2	G262636.D	12:53
OU1-MW39-0309	903093-002-049-1/2	G262637.D	13:09

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108834

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Lab File ID :	G262640.D	SDG NO :	903093
Date Analyzed	03/24/2009	Lab Sample ID :	BLK108834
GC Column :	ID. RTX_VC	Time Analyzed :	14:25

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW06-0309	903093-004-053-1/2	G262642.D	14:55
OU1-16GW06-0309DL	903093-004-053-1/2	G262644.D	15:28
OU1-16GW28-0309	903093-005-055-1/2	G262643.D	15:10
OU1-16GW28-0309DL	903093-005-055-1/2	G262645.D	15:43
OU1-16GW29-0309	903093-006-057-1/2	G262646.D	16:00
OU1-16GW29-0309DL	903093-006-057-1/2	G262648.D	16:33
OU1-16GW34-0309	903093-007-059-1/2	G262647.D	16:16
OU1-16GW34-0309DL	903093-007-059-1/2	G262649.D	16:47
OU1-16GW35-0309	903093-008-061-1/2	G262650.D	17:10
OU1-MW39-0309DL	903093-002-049-1/2	G262641.D	14:40

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-001-047-1/2
Sample Volume :	10	Lab File ID :	G262636.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	14	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262636.D Vial: 20
Acq On : 24 Mar 2009 12:53 Operator: TG
Sample : 903093-001 Inst : GC-G
Misc : OU1-MW38-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 13:03 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) T Methane	0.67	2229	14.258	ppb	m
2) T Ethane	0.00	0	N.D.	ppb	
3) T Ethylene	0.00	0	N.D.	ppb	

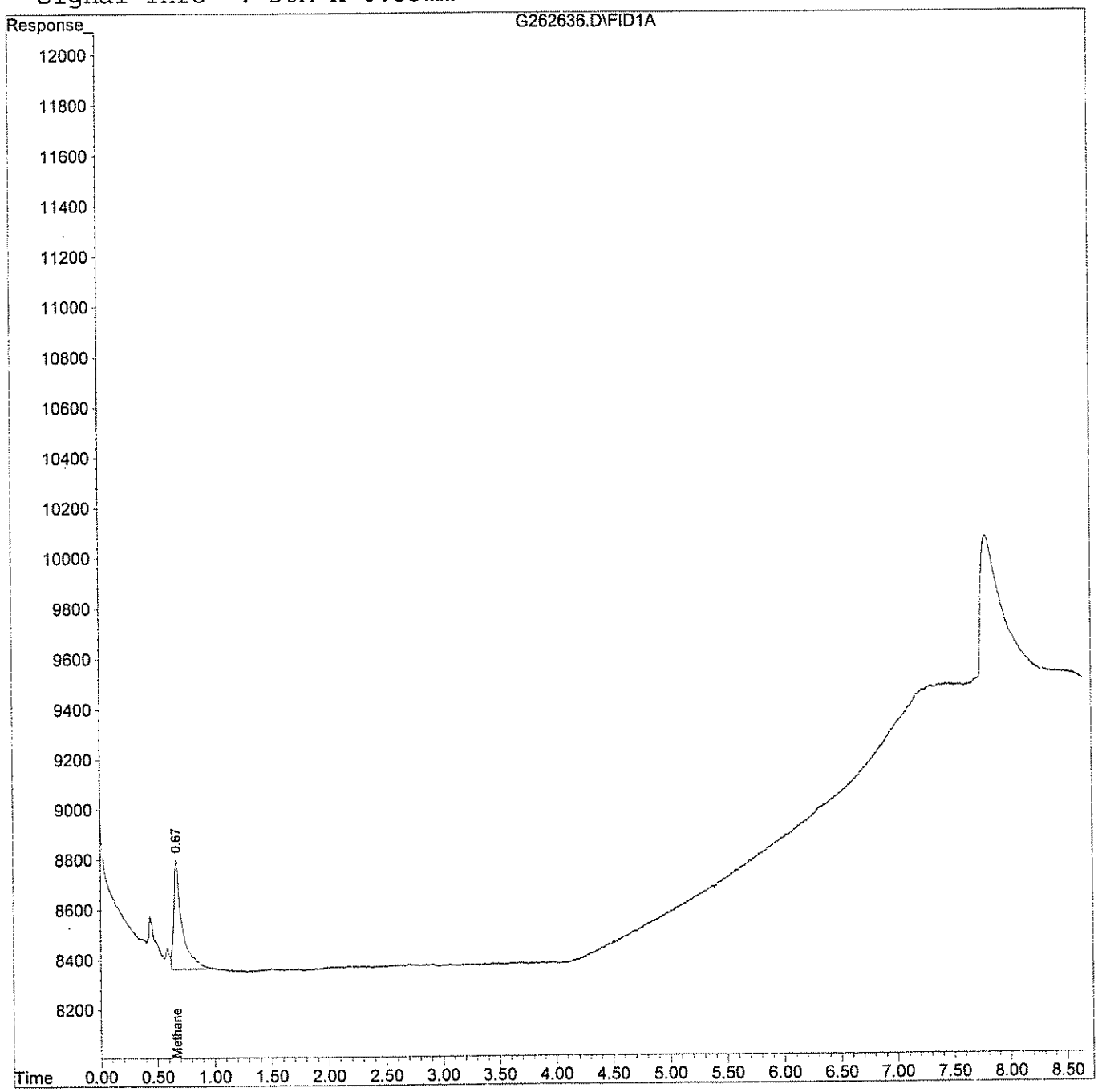
(f)=RT Delta > 1/2 Window (m)=manual int

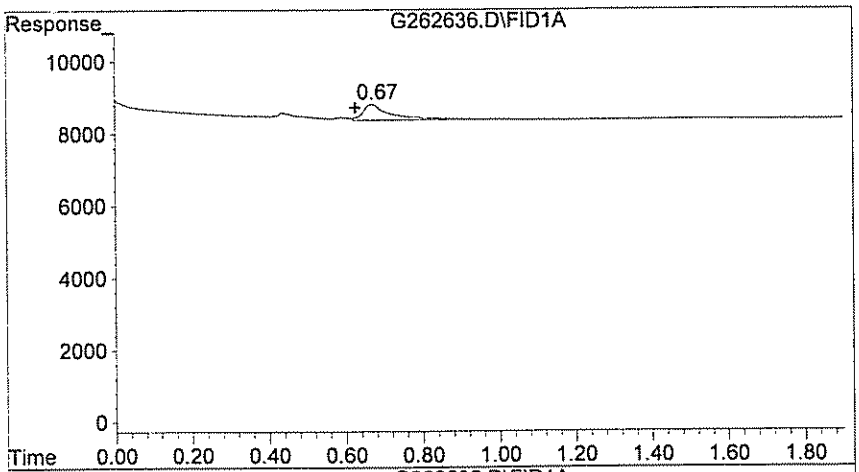
Quantitation Report

Data File : H:\GCDATA\G\032409\G262636.D Vial: 20
Acq On : 24 Mar 2009 12:53 Operator: TG
Sample : 903093-001 Inst : GC-G
Misc : OU1-MW38-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 13:03 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

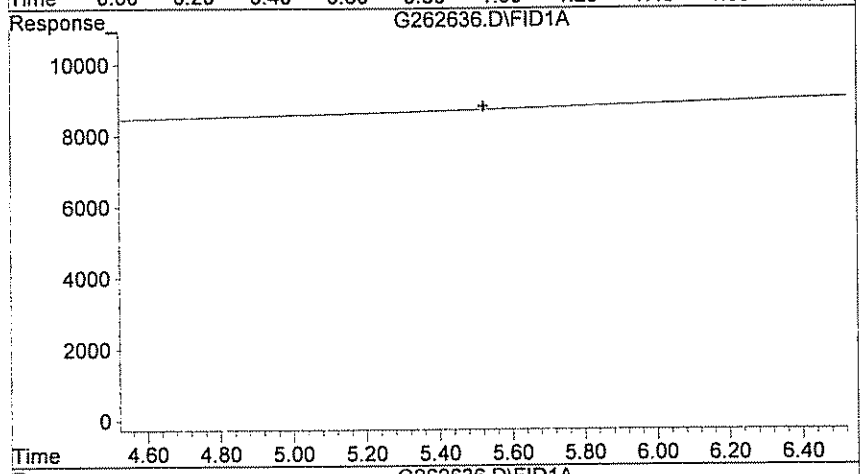
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





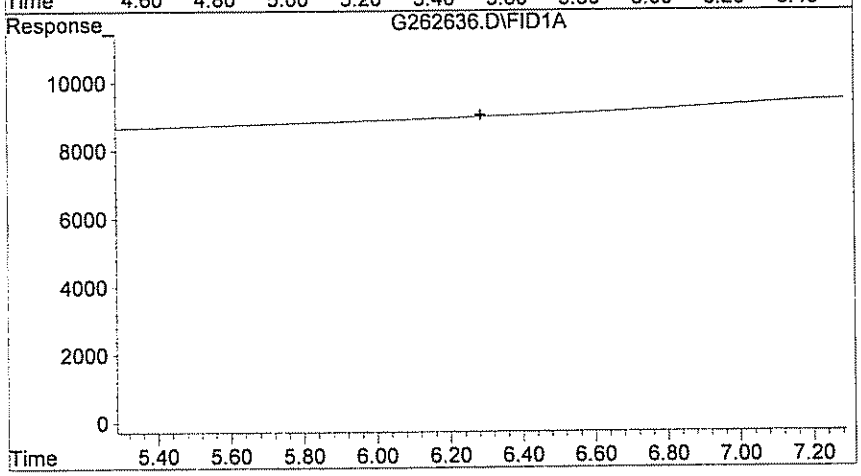
#1 Methane

R.T.: 0.670 min
Delta R.T.: 0.043 min
Response: 2229
Conc: 14.26 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-049-1/2
Sample Volume :	10	Lab File ID :	G262637.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	730	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262637.D Vial: 21
Acq On : 24 Mar 2009 13:09 Operator: TG
Sample : 903093-002 Inst : GC-G
Misc : OU1-MW39-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 13:18 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) T Methane	0.64	113744	727.560	ppb
2) T Ethane	0.00	0	N.D.	ppb
3) T Ethylene	0.00	0	N.D.	ppb

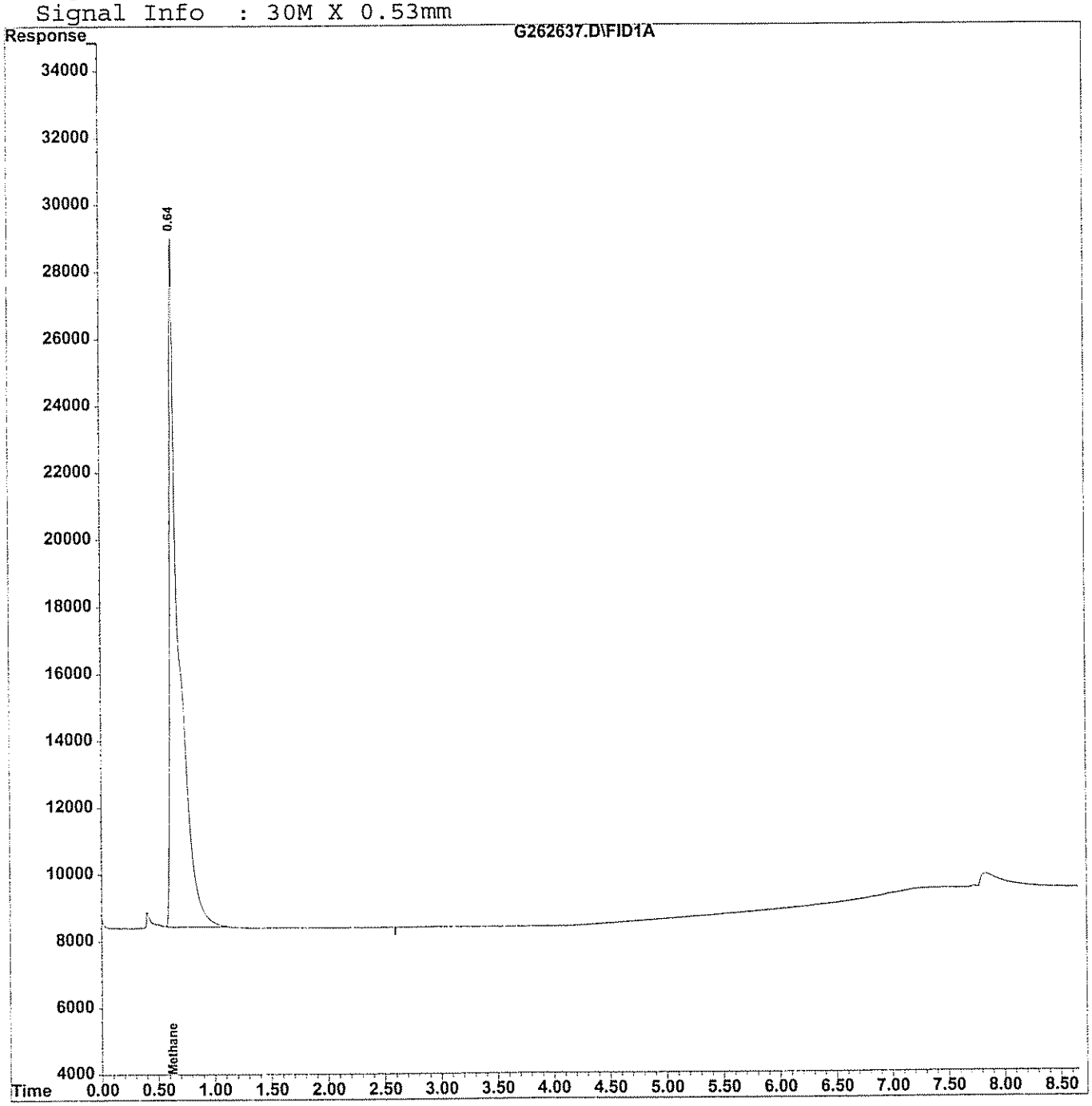
(f)=RT Delta > 1/2 Window (m)=manual int

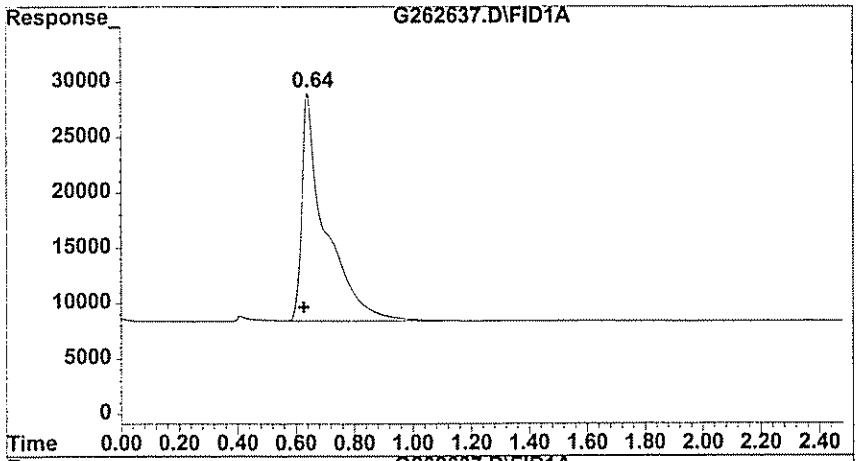
Quantitation Report

Data File : H:\GCDATA\G\032409\G262637.D Vial: 21
Acq On : 24 Mar 2009 13:09 Operator: TG
Sample : 903093-002 Inst : GC-G
Misc : OU1-MW39-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 13:18 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

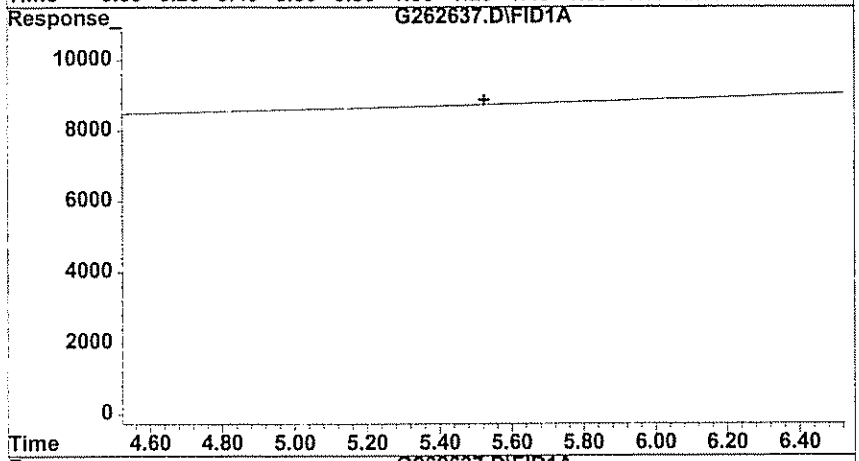
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





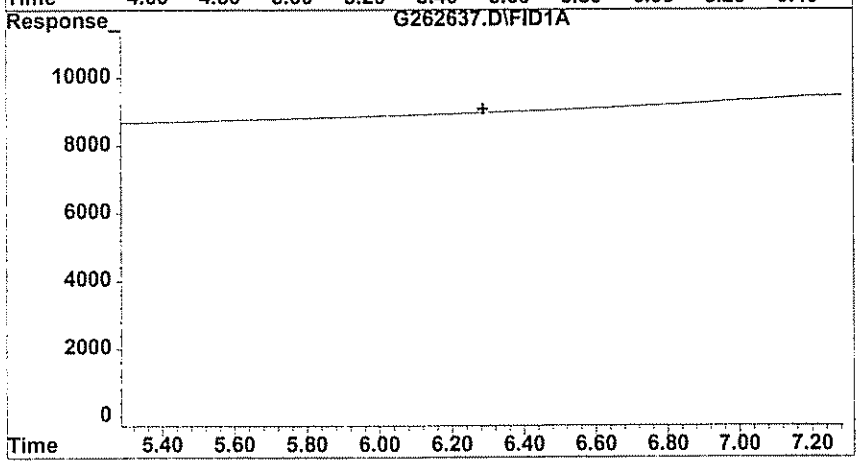
#1 Methane

R.T.:	0.640 min
Delta R.T.:	0.013 min
Response:	113744
Conc:	727.56 ppb



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-002-049-1/2
Sample Volume :	.1	Lab File ID :	G262641.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	720	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262641.D Vial: 25
Acq On : 24 Mar 2009 14:40 Operator: TG
Sample : 903093-002DL Inst : GC-G
Misc : OU1-MW39-0309,CH2M,WATER,10ML,100X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 14:50 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.64	1129	7.222	ppb	m
2)	T	Ethane	0.00	0	N.D.	ppb	
3)	T	Ethylene	0.00	0	N.D.	ppb	

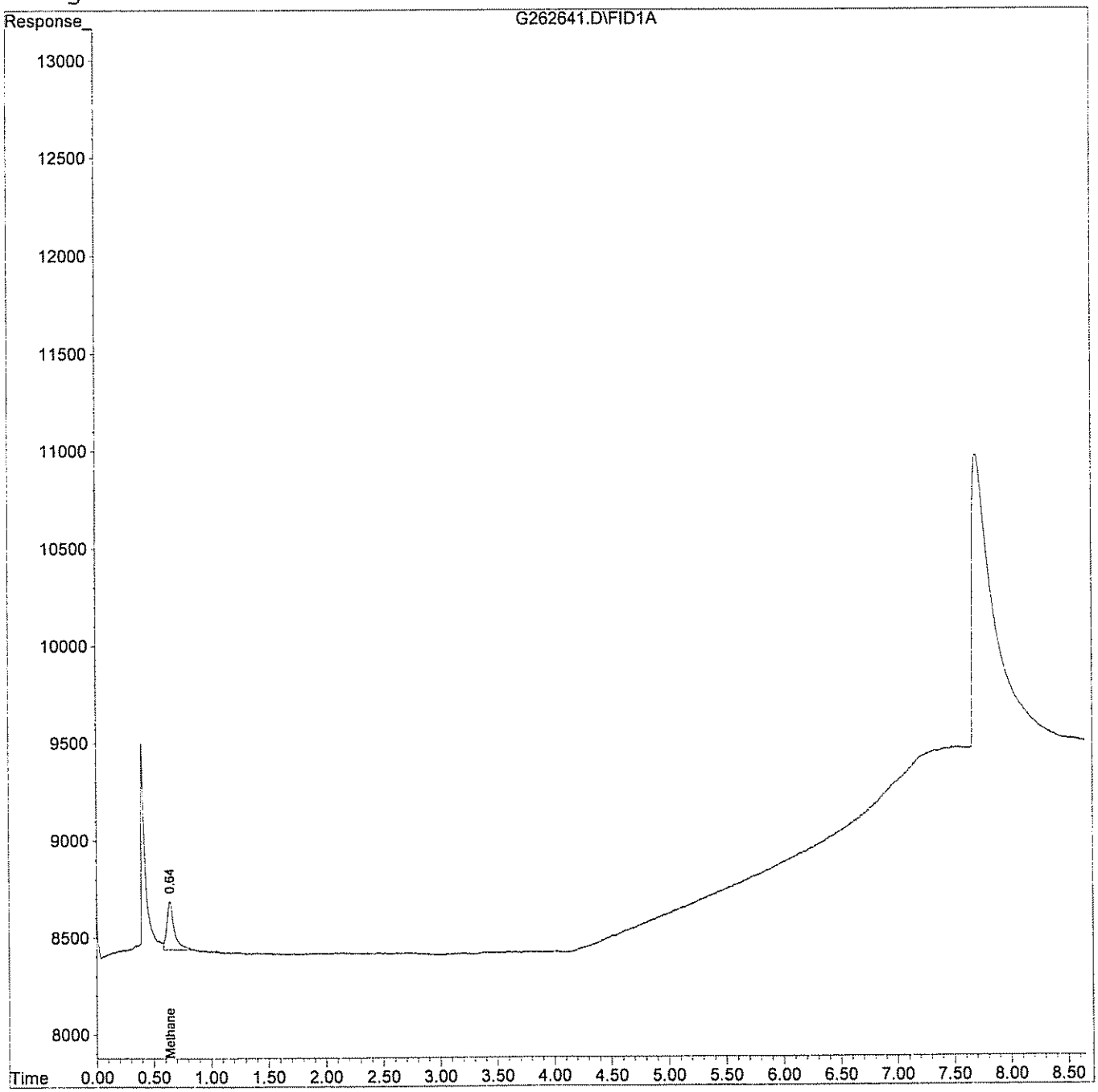
(f)=RT Delta > 1/2 Window (m)=manual int

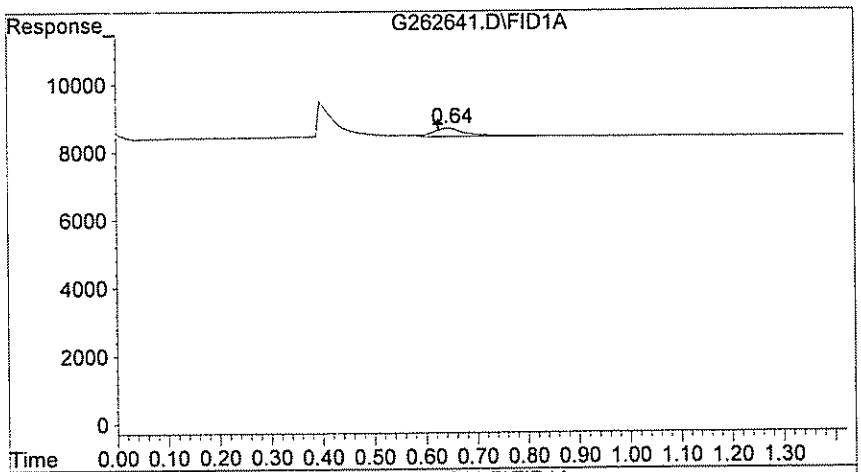
Quantitation Report

Data File : H:\GCDATA\G\032409\G262641.D Vial: 25
Acq On : 24 Mar 2009 14:40 Operator: TG
Sample : 903093-002DL Inst : GC-G
Misc : OU1-MW39-0309,CH2M,WATER,10ML,100X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 14:50 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

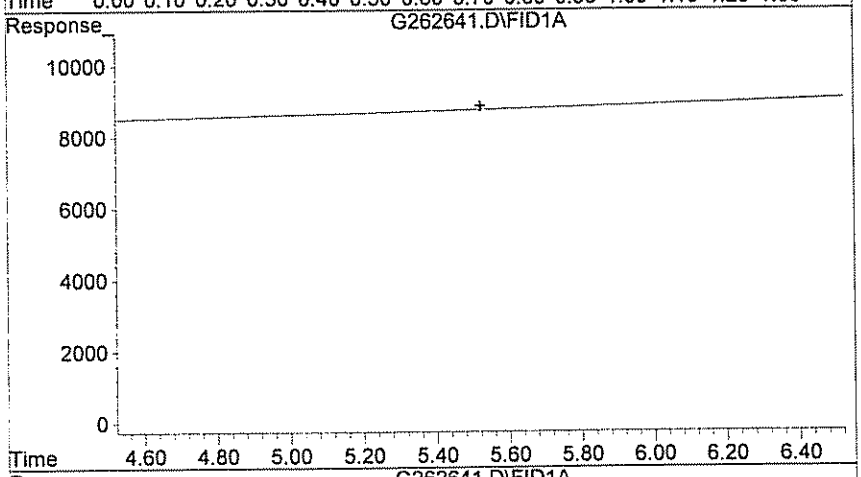
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





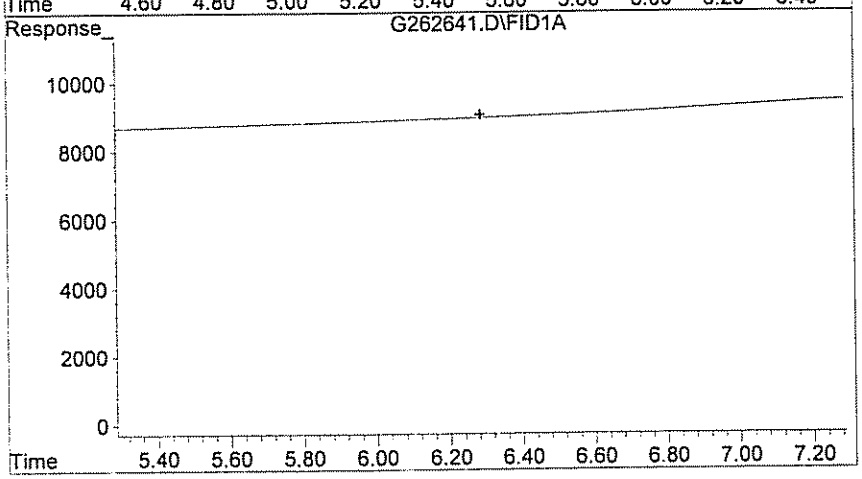
#1 Methane

R.T.:	0.643 min
Delta R.T.:	0.017 min
Response:	1129
Conc:	7.22 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-003-051-1/2
Sample Volume :	10	Lab File ID :	G262638.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	6.1	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262638.D Vial: 22
Acq On : 24 Mar 2009 13:26 Operator: TG
Sample : 903093-003 Inst : GC-G
Misc : OU1-16GW32-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 13:37 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	953	6.096	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

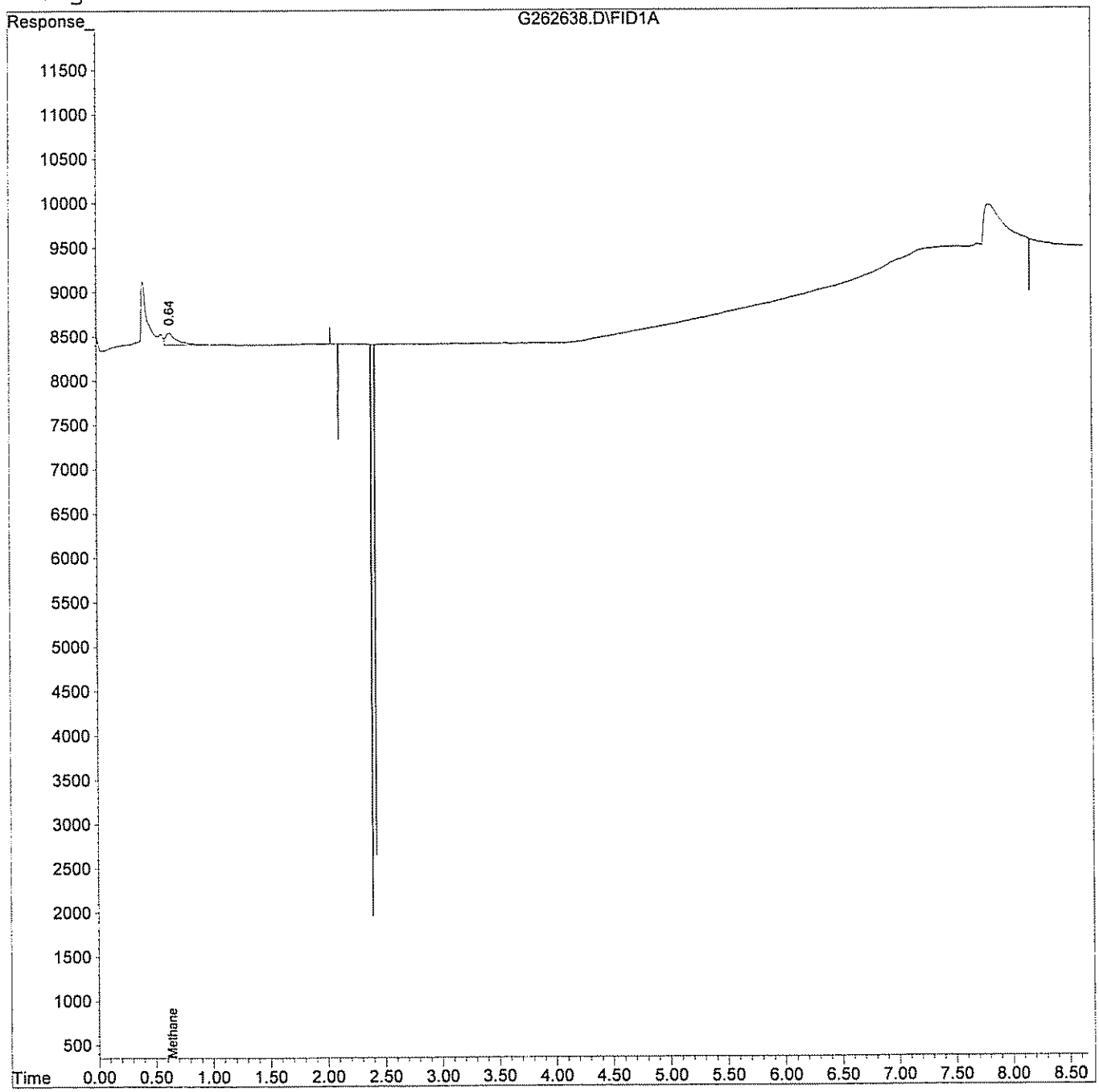
(f)=RT Delta > 1/2 Window (m)=manual int.

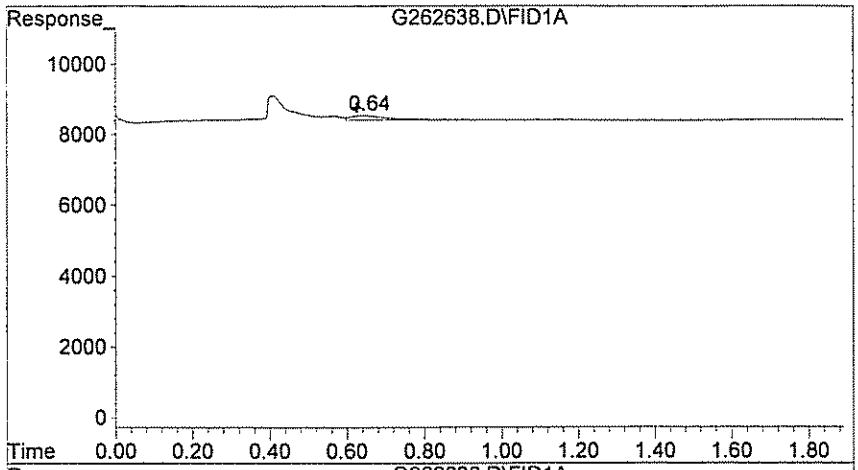
Quantitation Report

Data File : H:\GCDATA\G\032409\G262638.D Vial: 22
Acq On : 24 Mar 2009 13:26 Operator: TG
Sample : 903093-003 Inst : GC-G
Misc : OU1-16GW32-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 13:37 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

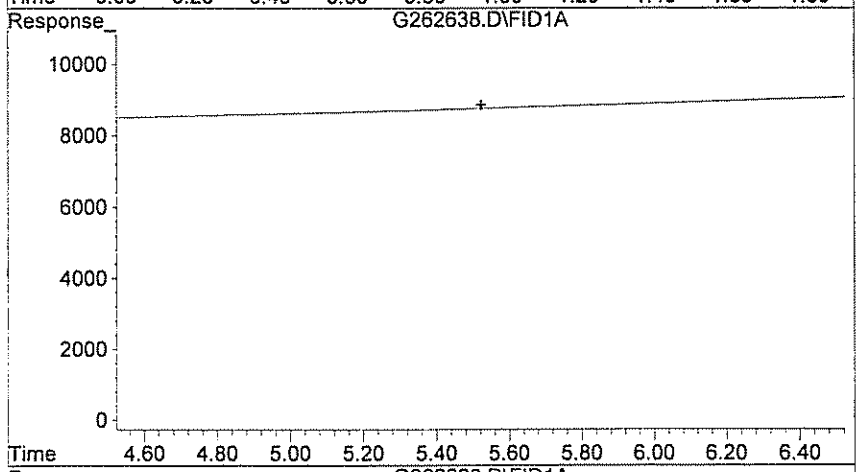
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





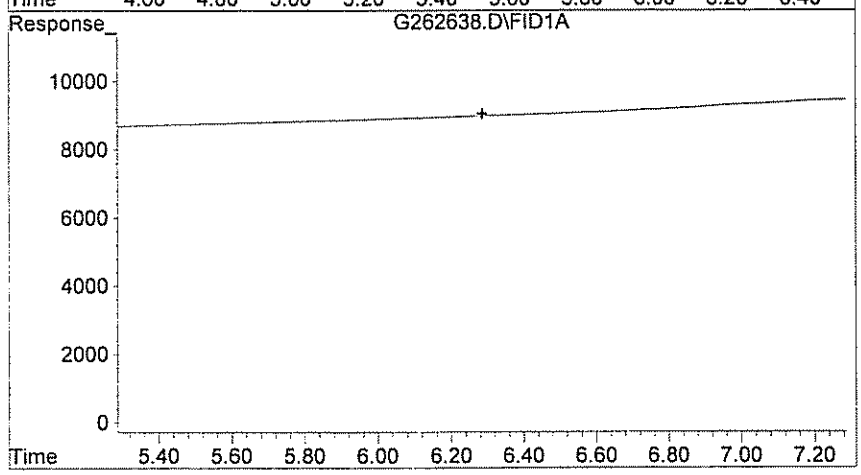
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 953
Conc: 6.10 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-053-1/2
Sample Volume :	10	Lab File ID :	G262642.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.2	J
74-82-8	Methane	100	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262642.D Vial: 26
Acq On : 24 Mar 2009 14:55 Operator: TG
Sample : 903093-004 Inst : GC-G
Misc : OU1-16GW06-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 15:05 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	16318	104.378	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	6.32	154	5.180	ppb	m

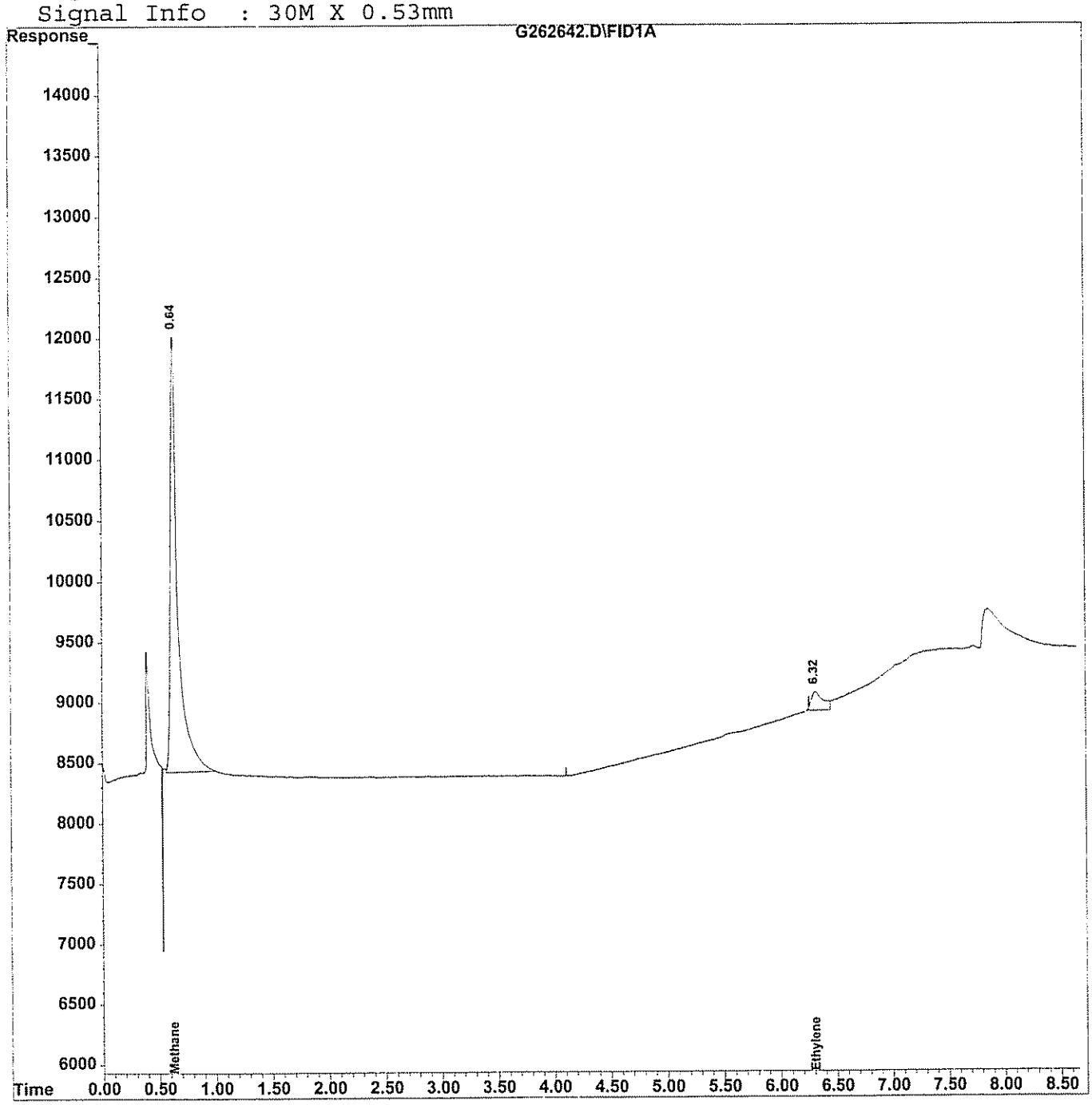
(f)=RT Delta > 1/2 Window (m)=manual int

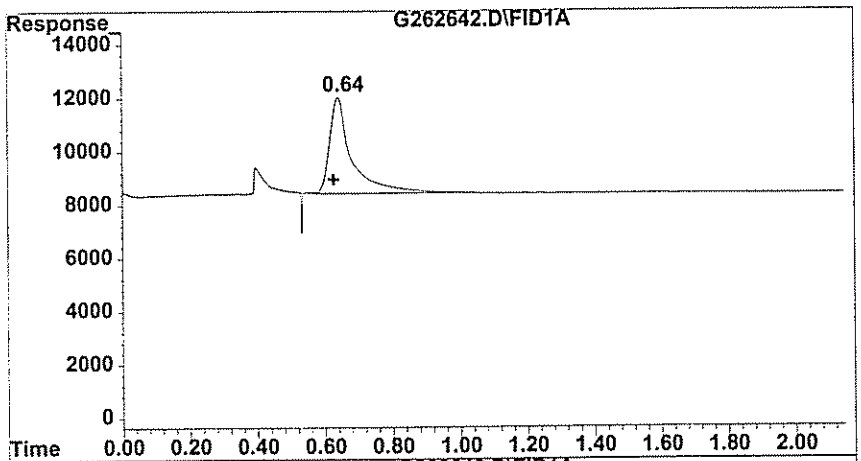
Quantitation Report

Data File : H:\GCDATA\G\032409\G262642.D Vial: 26
Acq On : 24 Mar 2009 14:55 Operator: TG
Sample : 903093-004 Inst : GC-G
Misc : OU1-16GW06-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 15:05 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

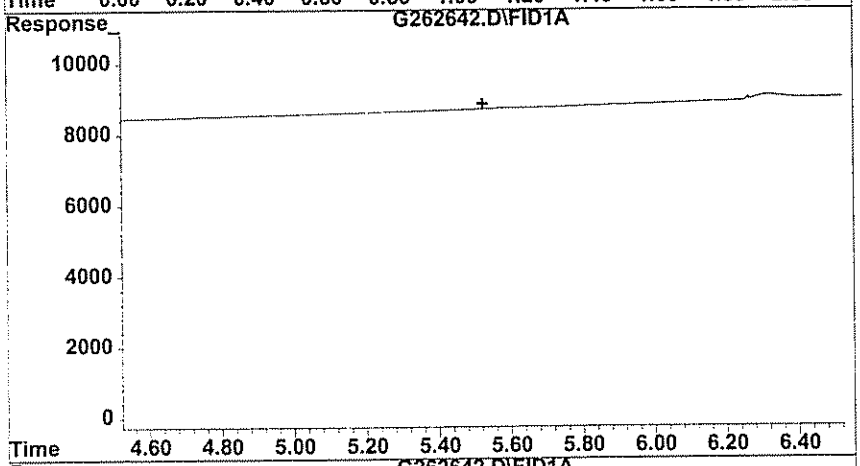
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





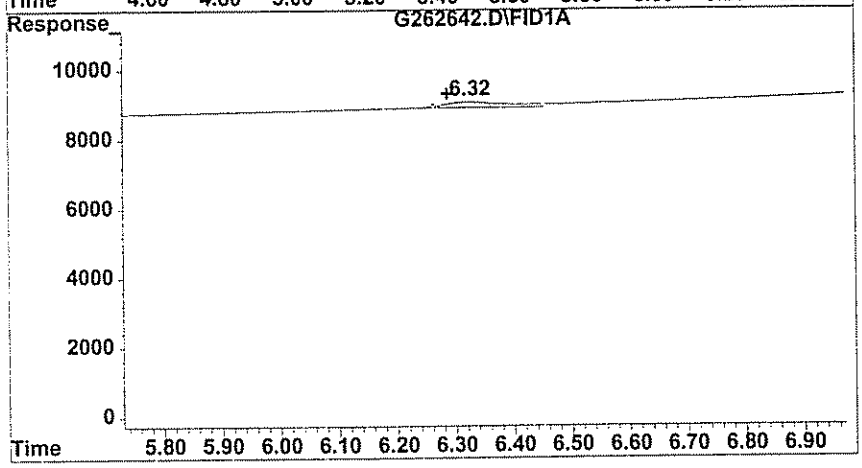
#1 Methane

R.T.: 0.640 min
Delta R.T.: 0.013 min
Response: 16318
Conc: 104.38 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.030 min
Response: 154
Conc: 5.18 ppb m

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-004-053-1/2
Sample Volume :	1	Lab File ID :	G262644.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	100	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262644.D Vial: 28
Acq On : 24 Mar 2009 15:28 Operator: TG
Sample : 903093-004DL Inst : GC-G
Misc : OU1-16GW06-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 15:38 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	1604	10.260	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

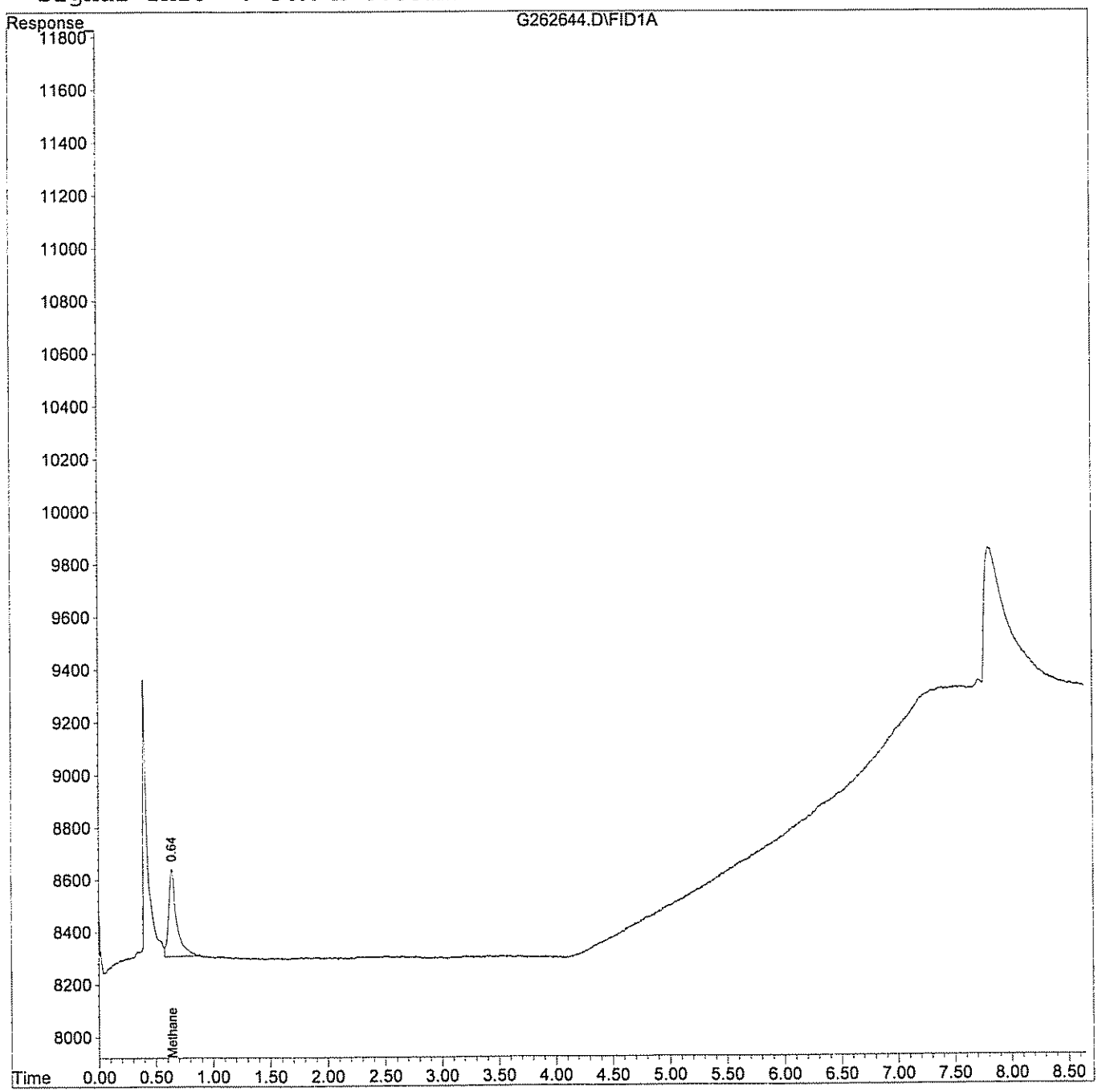
(f)=RT Delta > 1/2 Window (m)=manual int

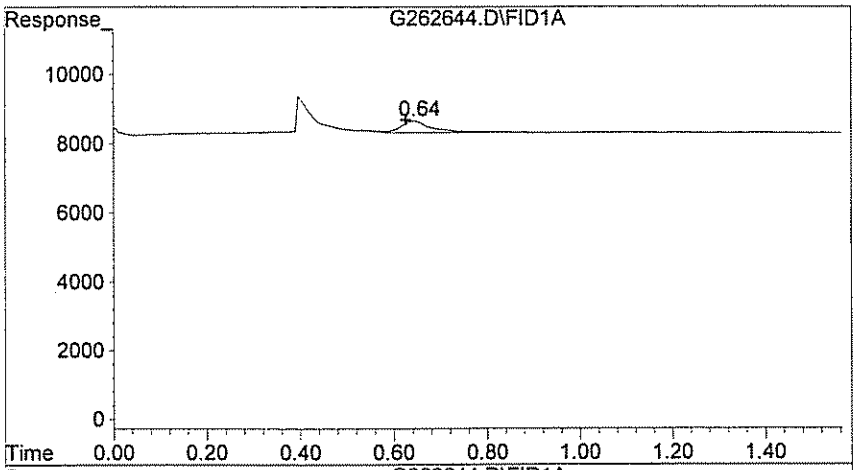
Quantitation Report

Data File : H:\GCDATA\G\032409\G262644.D Vial: 28
Acq On : 24 Mar 2009 15:28 Operator: TG
Sample : 903093-004DL Inst : GC-G
Misc : OU1-16GW06-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 15:38 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

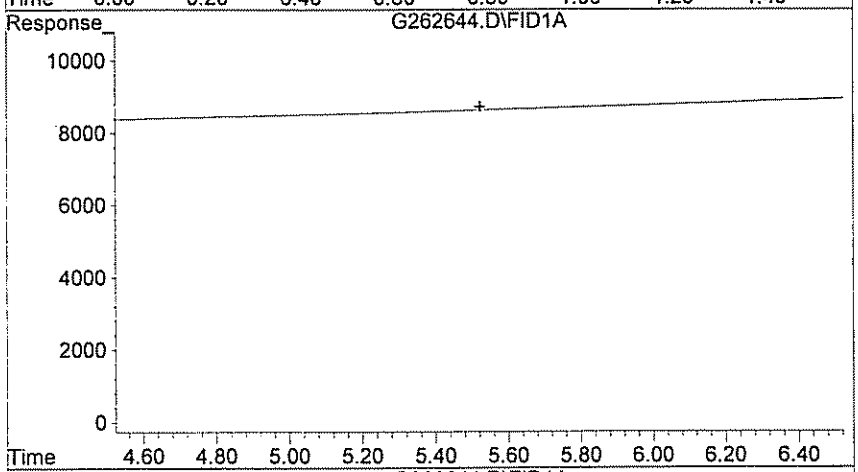
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





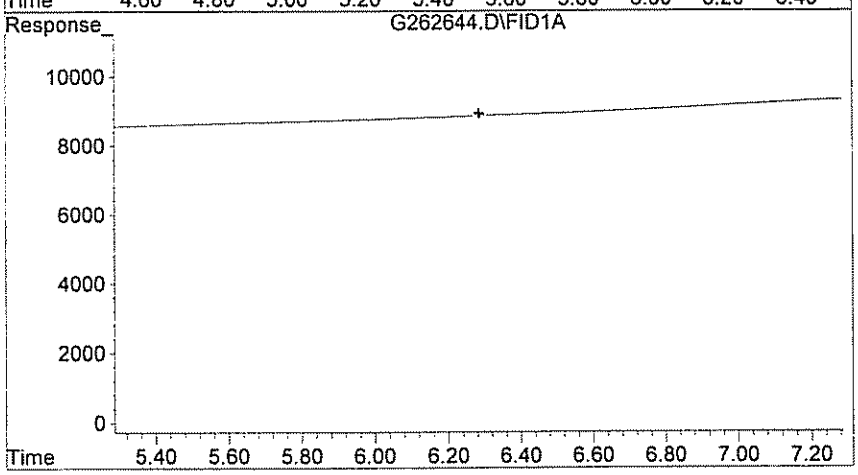
#1 Methane

R.T.:	0.643 min
Delta R.T.:	0.017 min
Response:	1604
Conc:	10.26 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-055-1/2
Sample Volume :	10	Lab File ID :	G262643.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	5.0	J
74-85-1	Ethene	5.8	U
74-82-8	Methane	970	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262643.D Vial: 27
Acq On : 24 Mar 2009 15:10 Operator: TG
Sample : 903093-005 Inst : GC-G
Misc : OU1-16GW28-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 10:19 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.64	151538	969.308	ppb	
2)	T	Ethane	5.55	118	4.976	ppb	m
3)	T	Ethylene	0.00	0	N.D.	ppb	d

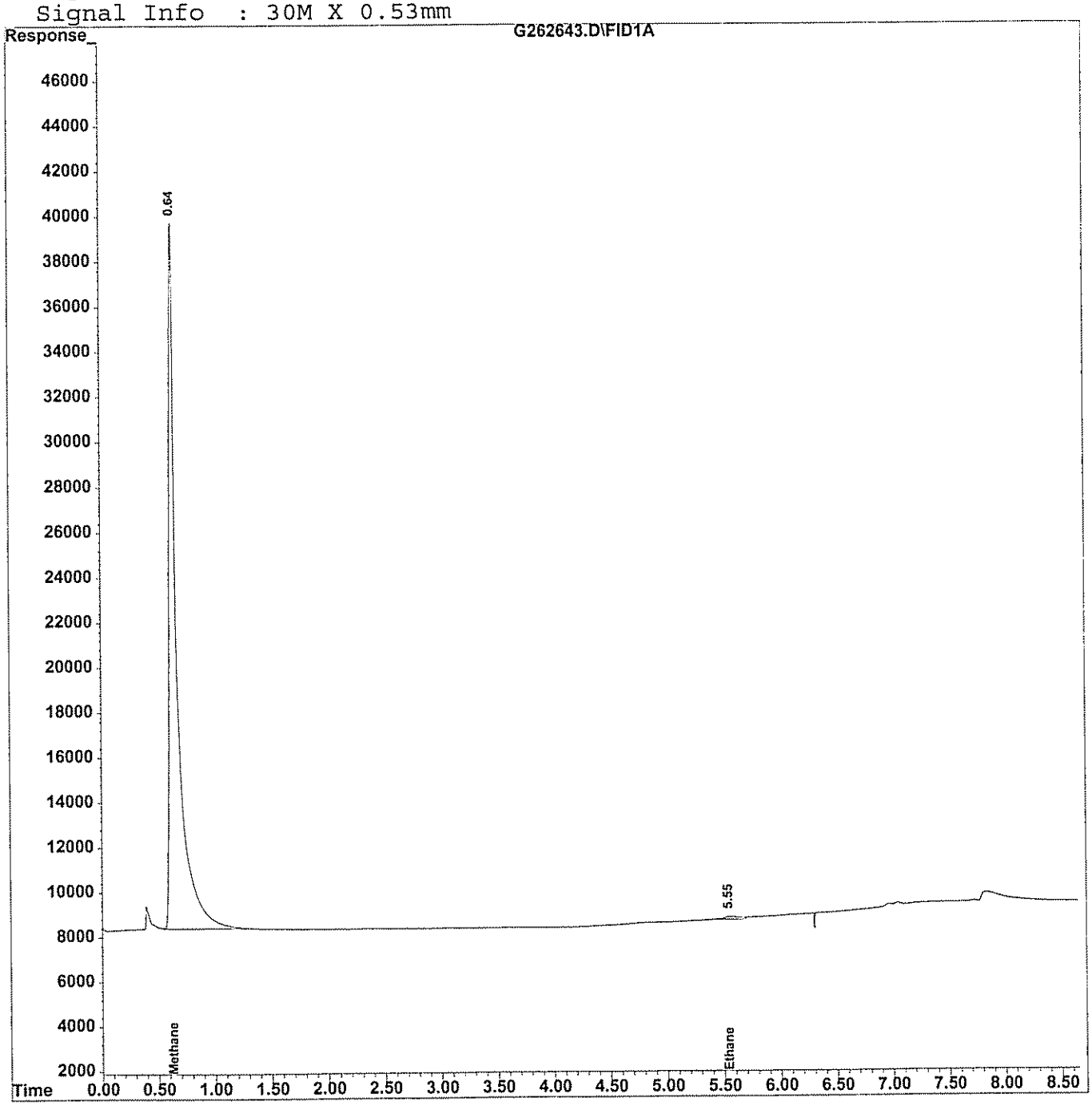
(f)=RT Delta > 1/2 Window (m)=manual int

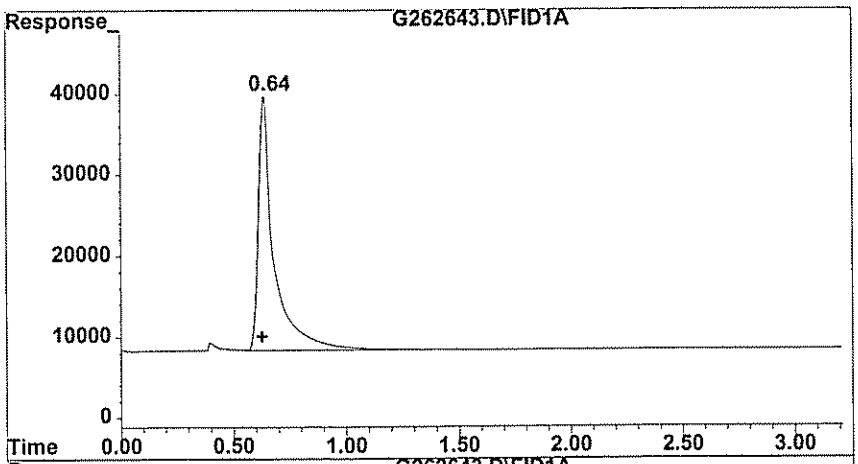
Quantitation Report

Data File : H:\GCDATA\G\032409\G262643.D Vial: 27
Acq On : 24 Mar 2009 15:10 Operator: TG
Sample : 903093-005 Inst : GC-G
Misc : OU1-16GW28-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 10:19 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

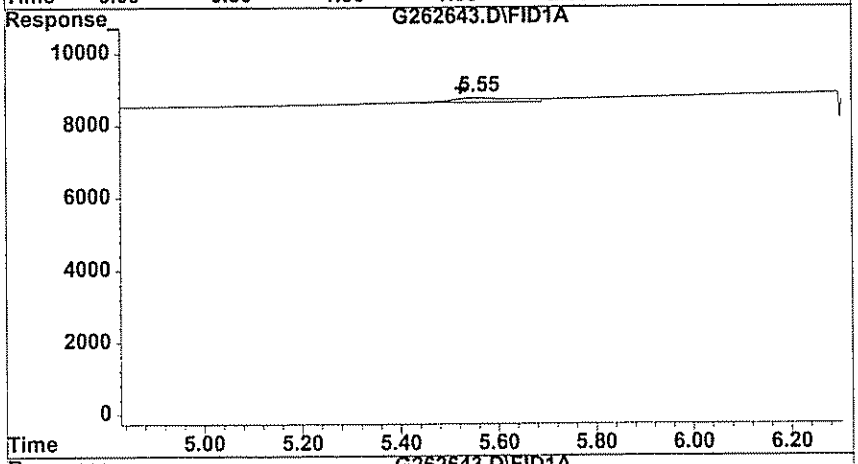
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





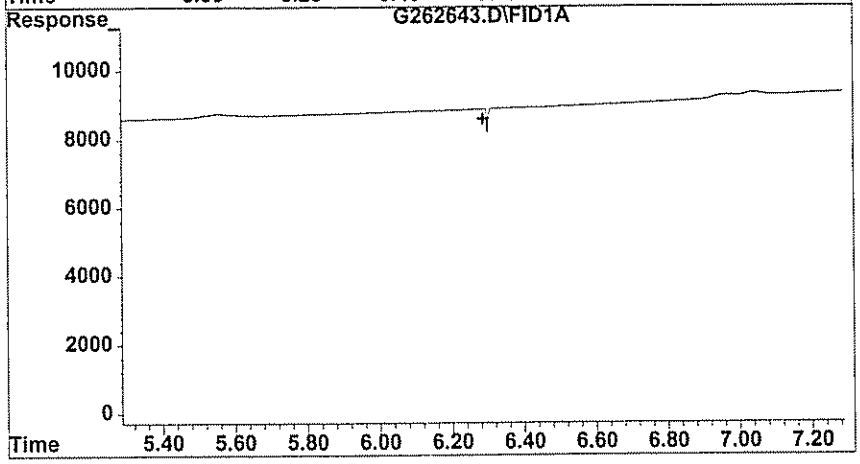
#1 Methane

R.T.: 0.640 min
Delta R.T.: 0.013 min
Response: 151538
Conc: 969.31 ppb



#2 Ethylene

R.T.: 5.550 min
Delta R.T.: 0.027 min
Response: 118
Conc: 4.98 ppb m



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-005-055-1/2
Sample Volume :	.2	Lab File ID :	G262645.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	310	U
74-85-1	Ethene	290	U
74-82-8	Methane	370	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262645.D Vial: 29
Acq On : 24 Mar 2009 15:43 Operator: TG
Sample : 903093-005DL Inst : GC-G
Misc : OU1-16GW28-0309,CH2M,WATER,10ML,50X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 15:53 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	1155	7.388	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

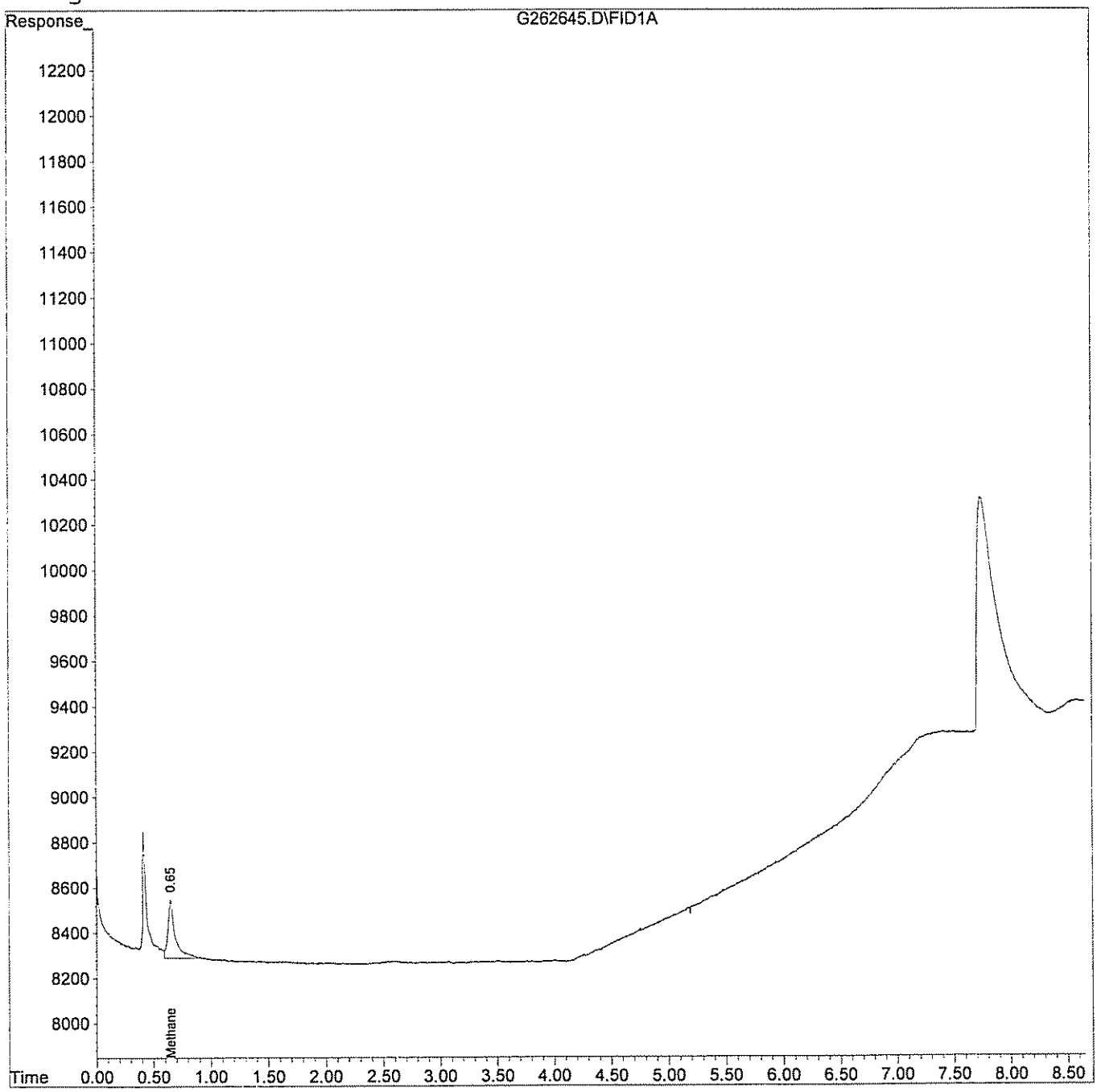
(f)=RT Delta > 1/2 Window (m)=manual int

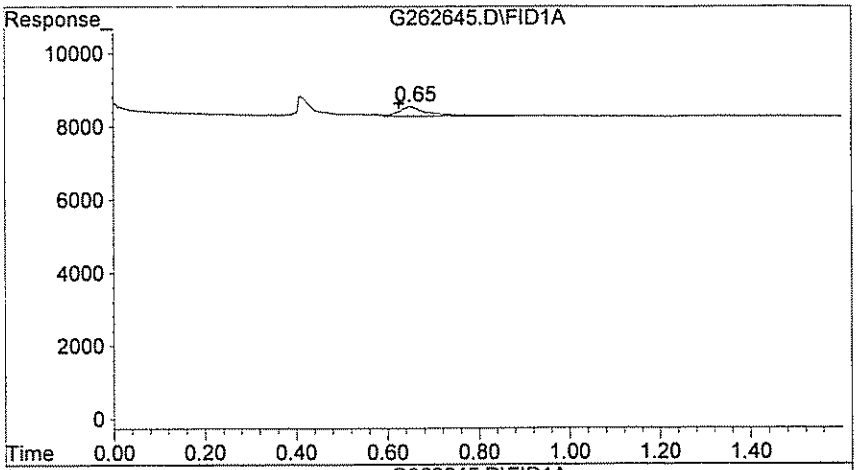
Quantitation Report

Data File : H:\GCDATA\G\032409\G262645.D Vial: 29
Acq On : 24 Mar 2009 15:43 Operator: TG
Sample : 903093-005DL Inst : GC-G
Misc : OU1-16GW28-0309,CH2M,WATER,10ML,50X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 15:53 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

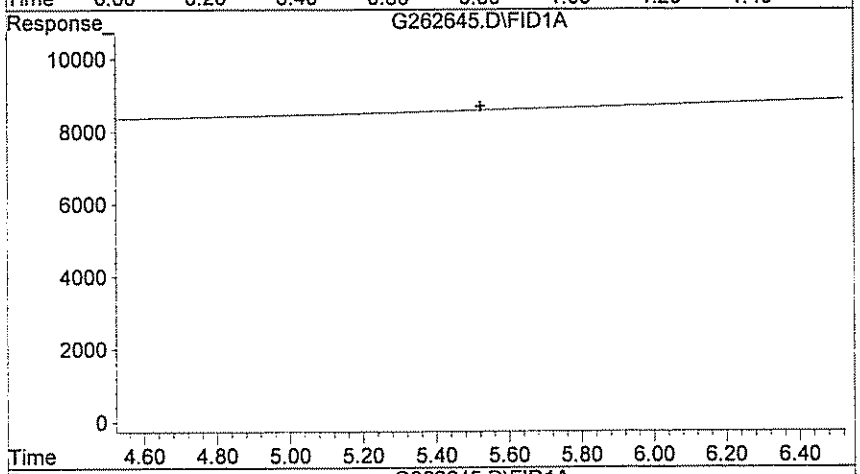
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





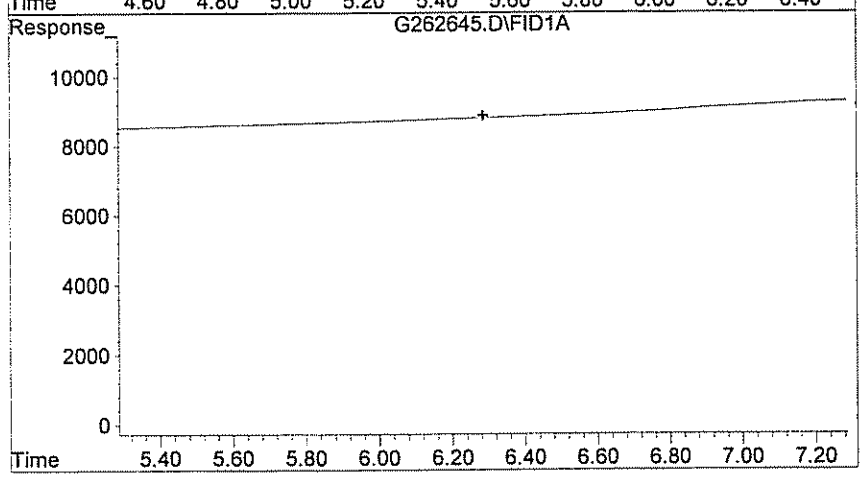
#1 Methane

R.T.:	0.650 min
Delta R.T.:	0.023 min
Response:	1155
Conc:	7.39 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-057-1/2
Sample Volume :	10	Lab File ID :	G262646.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	8200	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262646.D Vial: 30
Acq On : 24 Mar 2009 16:00 Operator: TG
Sample : 903093-006 Inst : GC-G
Misc : OU1-16GW29-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 16:09 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.63	1279526	8184.449	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

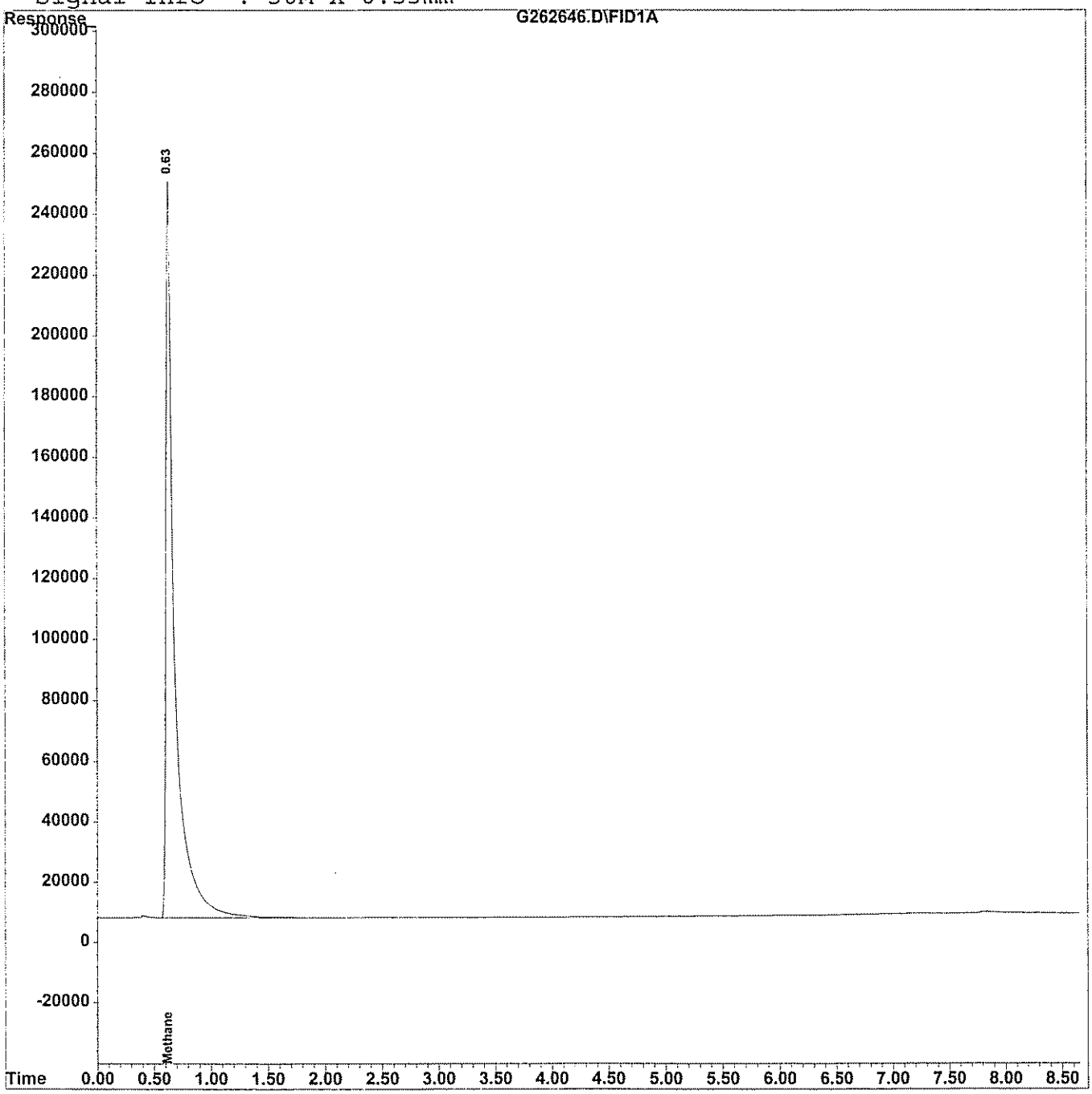
(f)=RT Delta > 1/2 Window (m)=manual integ.
G262646.D RSK0320.M Wed Mar 25 13:08:36 2009 W28_IOANNIDE Page 1

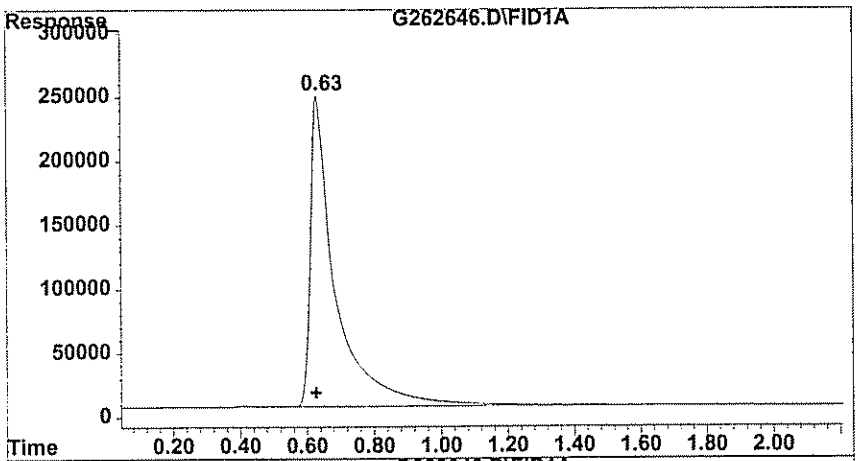
Quantitation Report

Data File : H:\GCDATA\G\032409\G262646.D Vial: 30
Acq On : 24 Mar 2009 16:00 Operator: TG
Sample : 903093-006 Inst : GC-G
Misc : OU1-16GW29-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 16:09 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

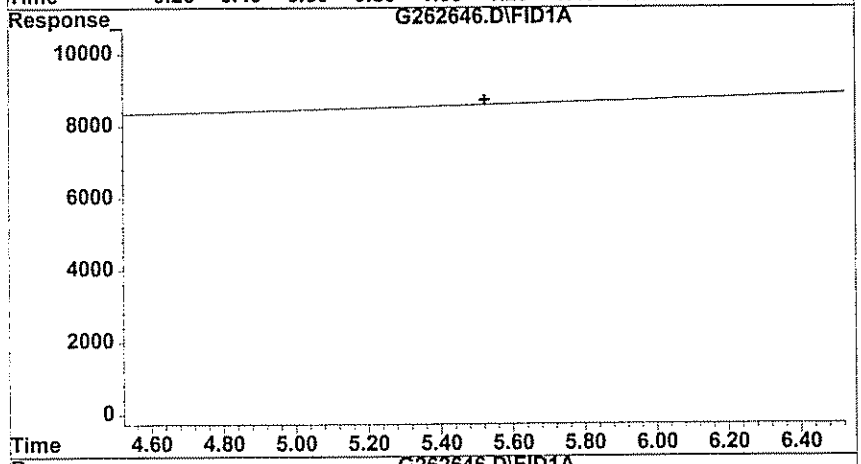
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





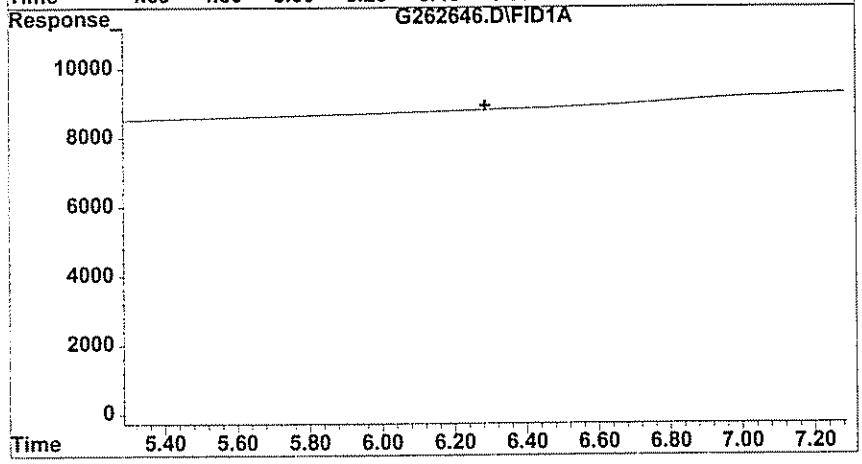
#1 Methane

R.T.: 0.630 min
Delta R.T.: 0.003 min
Response: 1279526
Conc: 8184.45 ppb



#2 Ethylene

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW29-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-006-057-1/2
Sample Volume :	.01	Lab File ID :	G262648.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1000
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6200	U
74-85-1	Ethene	5800	U
74-82-8	Methane	9200	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262648.D Vial: 32
Acq On : 24 Mar 2009 16:33 Operator: TG
Sample : 903093-006DL Inst : GC-G
Misc : OU1-16GW29-0309,CH2M,WATER,10ML,1000X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 16:43 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	1443	9.230	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

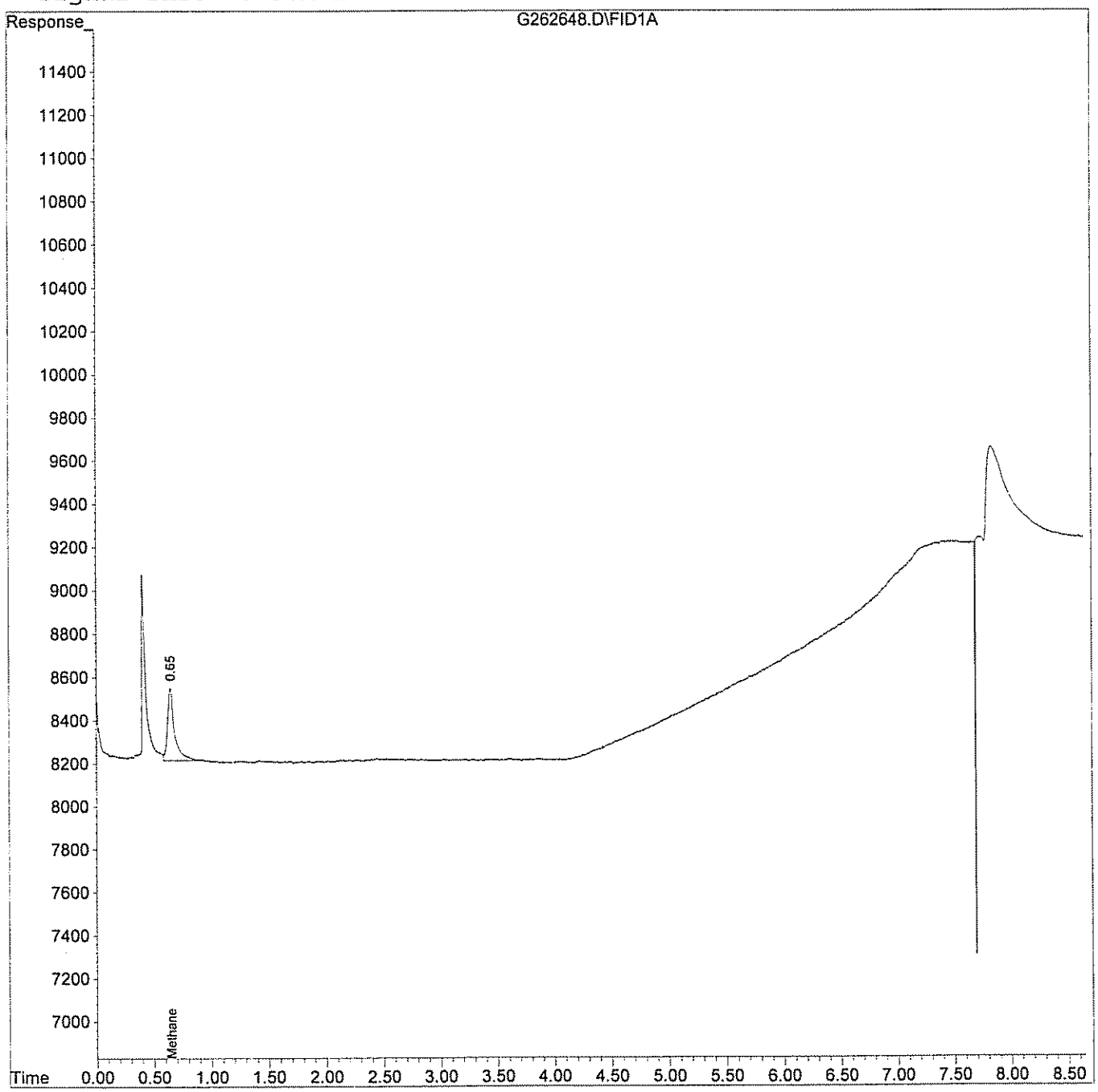
(f)=RT Delta > 1/2 Window (m)=manual int.

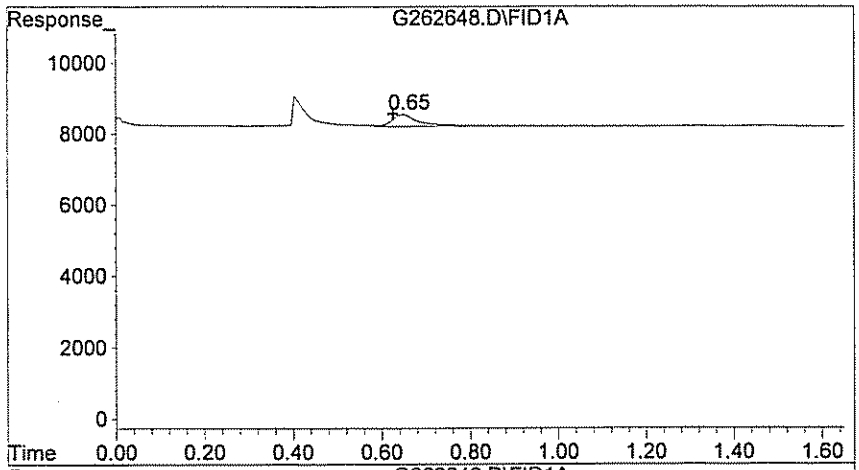
Quantitation Report

Data File : H:\GCDATA\G\032409\G262648.D Vial: 32
Acq On : 24 Mar 2009 16:33 Operator: TG
Sample : 903093-006DL Inst : GC-G
Misc : OU1-16GW29-0309,CH2M,WATER,10ML,1000X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 16:43 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

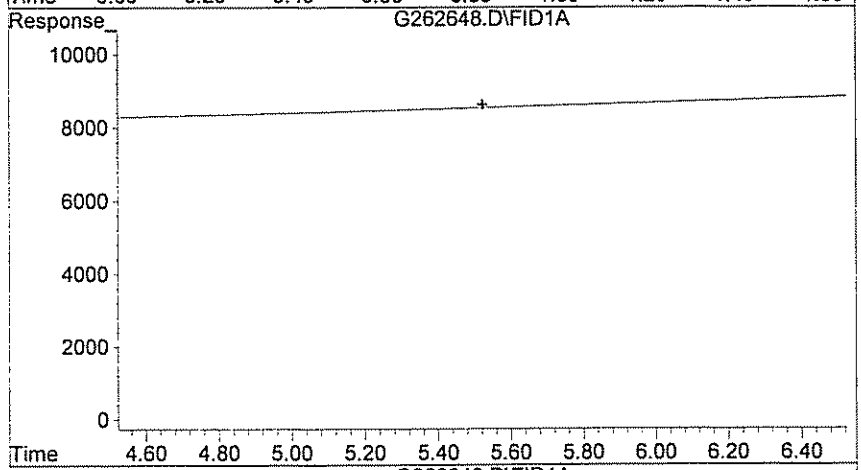
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





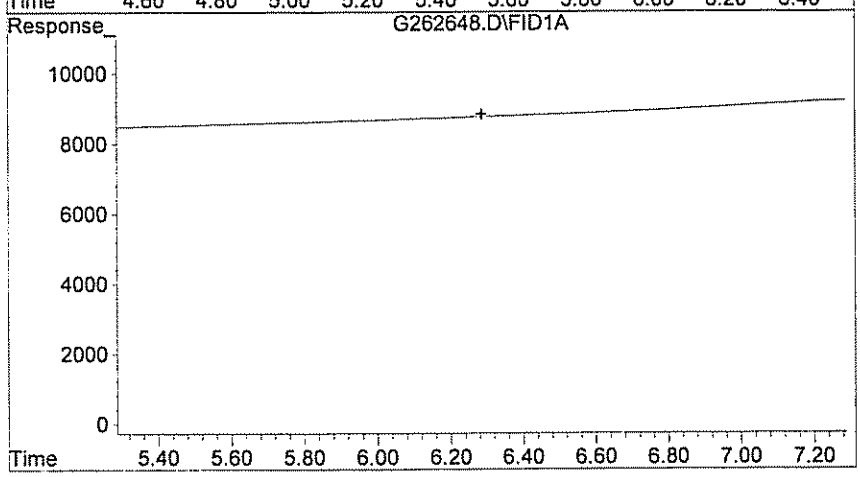
#1 Methane

R.T.:	0.650 min
Delta R.T.:	0.023 min
Response:	1443
Conc:	9.23 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-059-1/2
Sample Volume :	10	Lab File ID :	G262647.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	280	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262647.D Vial: 31
Acq On : 24 Mar 2009 16:16 Operator: TG
Sample : 903093-007 Inst : GC-G
Misc : OU1-16GW34-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 16:25 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units
Target Compounds						
1)	T	Methane	0.65	44588	285.206	ppb
2)	T	Ethane	0.00	0	N.D.	ppb
3)	T	Ethylene	0.00	0	N.D.	ppb

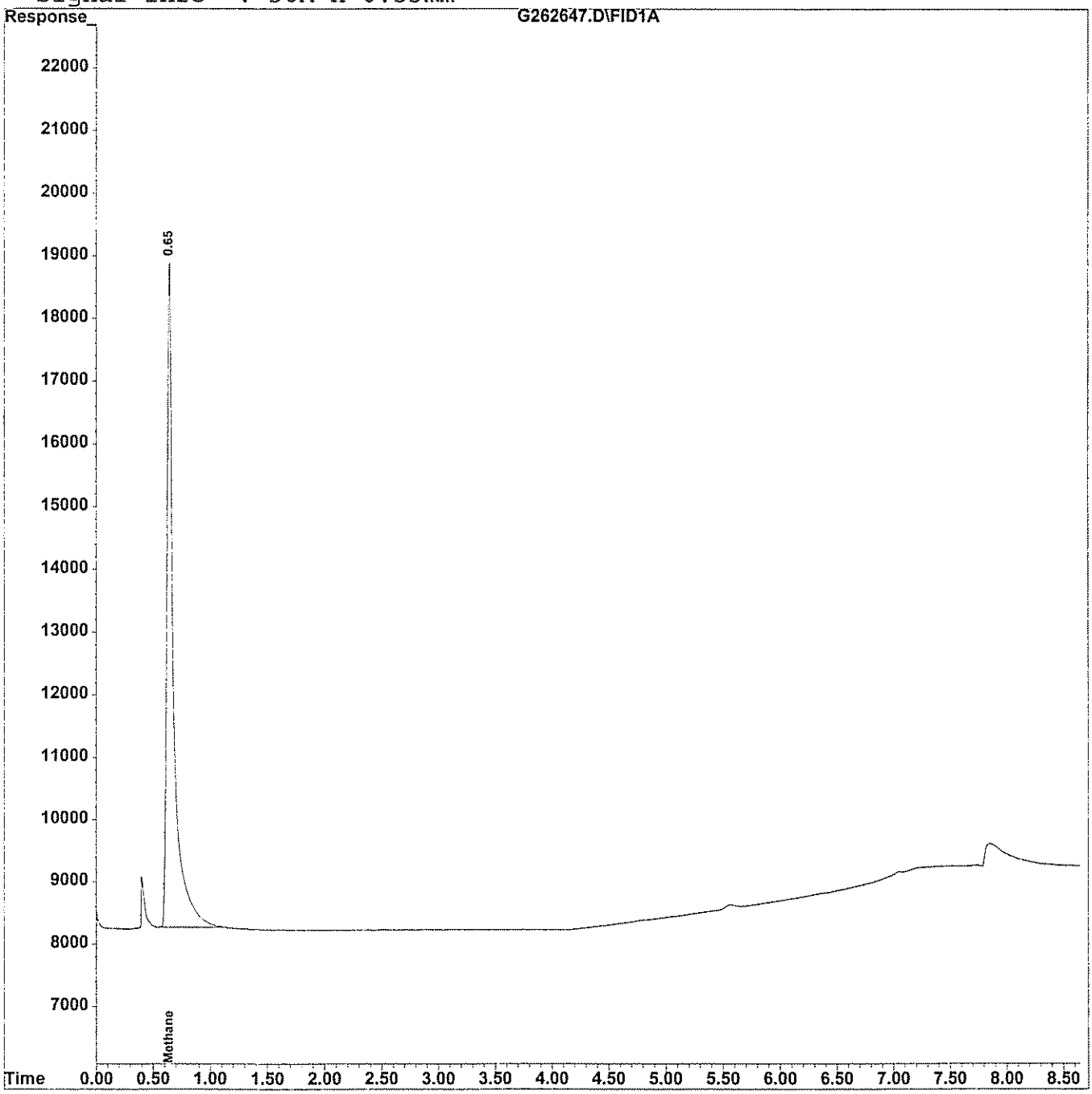
(f)=RT Delta > 1/2 Window (m)=manual int.

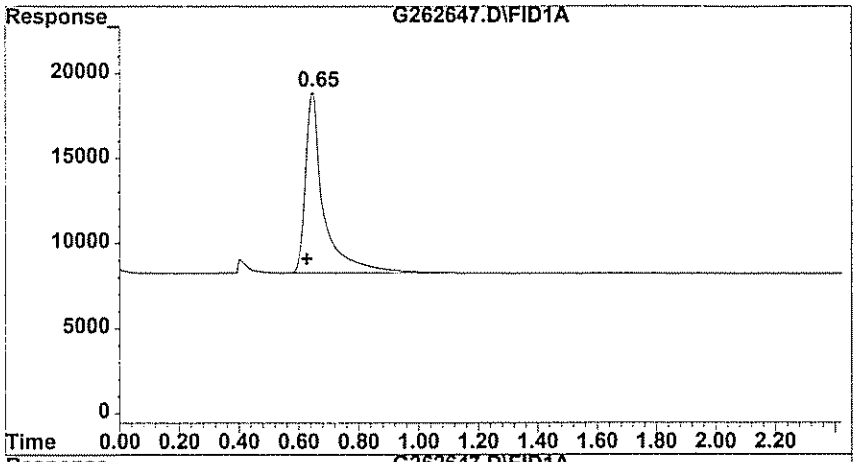
Quantitation Report

Data File : H:\GCDATA\G\032409\G262647.D Vial: 31
Acq On : 24 Mar 2009 16:16 Operator: TG
Sample : 903093-007 Inst : GC-G
Misc : OU1-16GW34-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 16:25 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

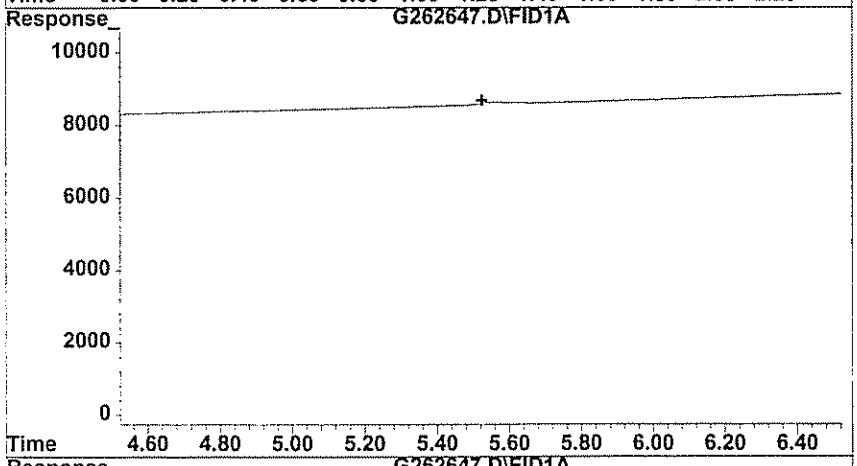
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





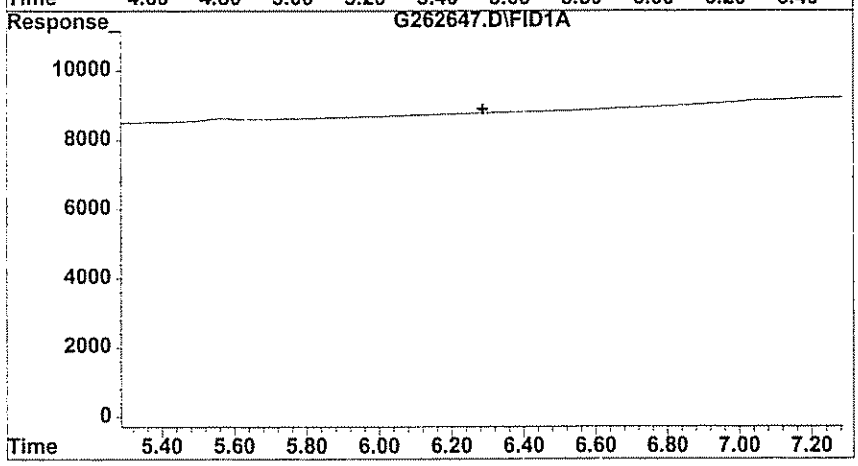
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 44588
Conc: 285.21 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-007-059-1/2
Sample Volume :	.5	Lab File ID :	G262649.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	440	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262649.D Vial: 33
Acq On : 24 Mar 2009 16:47 Operator: TG
Sample : 903093-007DL Inst : GC-G
Misc : OU1-16GW34-0309,CH2M,WATER,10ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 17:01 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	3478	22.247	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	d
3) T	Ethylene	0.00	0	N.D.	ppb	

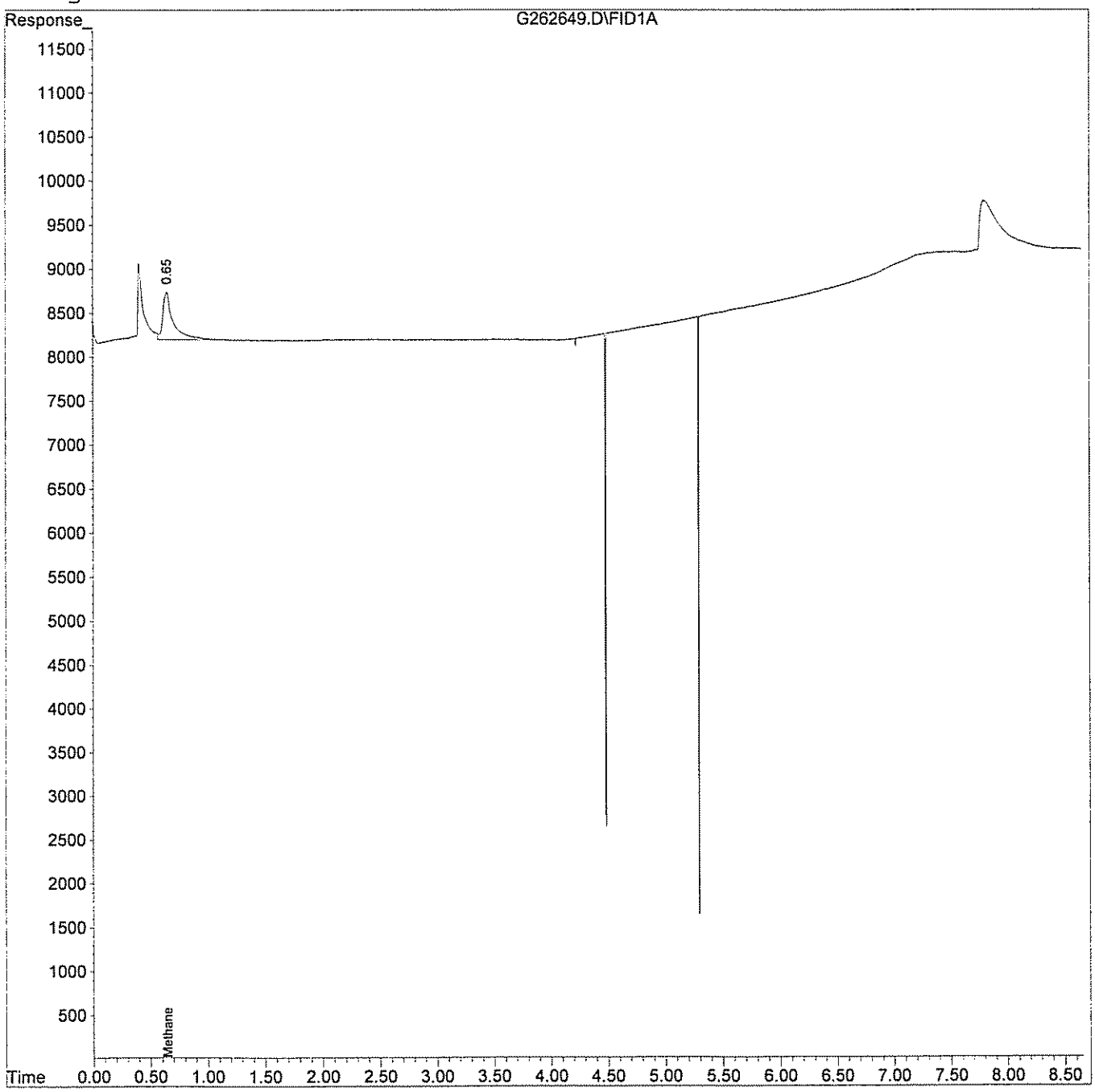
(f)=RT Delta > 1/2 Window (m)=manual int

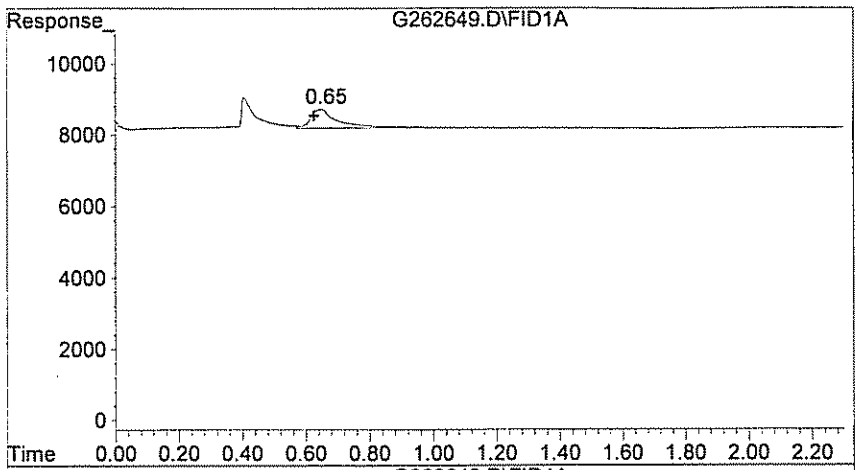
Quantitation Report

Data File : H:\GCDATA\G\032409\G262649.D Vial: 33
Acq On : 24 Mar 2009 16:47 Operator: TG
Sample : 903093-007DL Inst : GC-G
Misc : OU1-16GW34-0309,CH2M,WATER,10ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 17:01 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

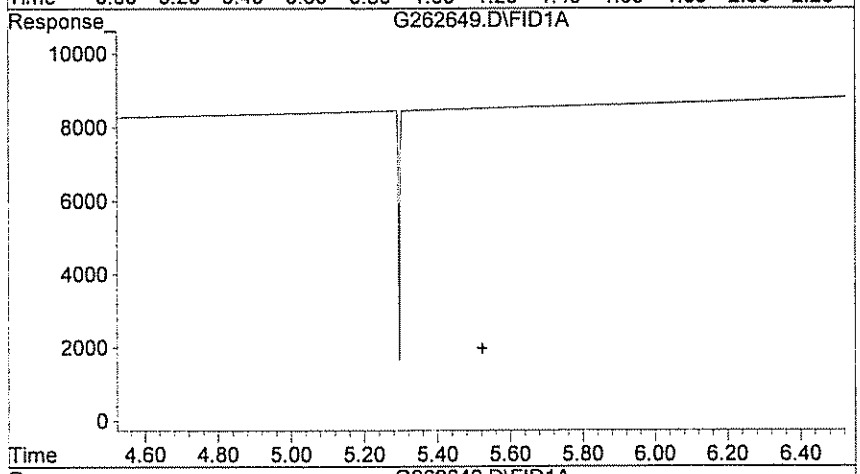
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





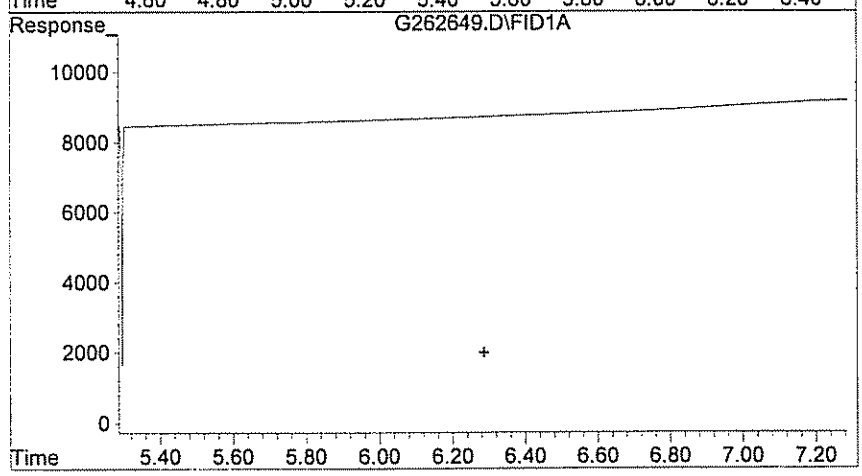
#1 Methane

R.T.:	0.647 min
Delta R.T.:	0.020 min
Response:	3478
Conc:	22.25 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903093-008-061-1/2
Sample Volume :	10	Lab File ID :	G262650.D
Level :	Low	Date Received	03/14/2009
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	14	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262650.D Vial: 34
Acq On : 24 Mar 2009 17:10 Operator: TG
Sample : 903093-008 Inst : GC-G
Misc : OU1-16GW35-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 17:19 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2268	14.507	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

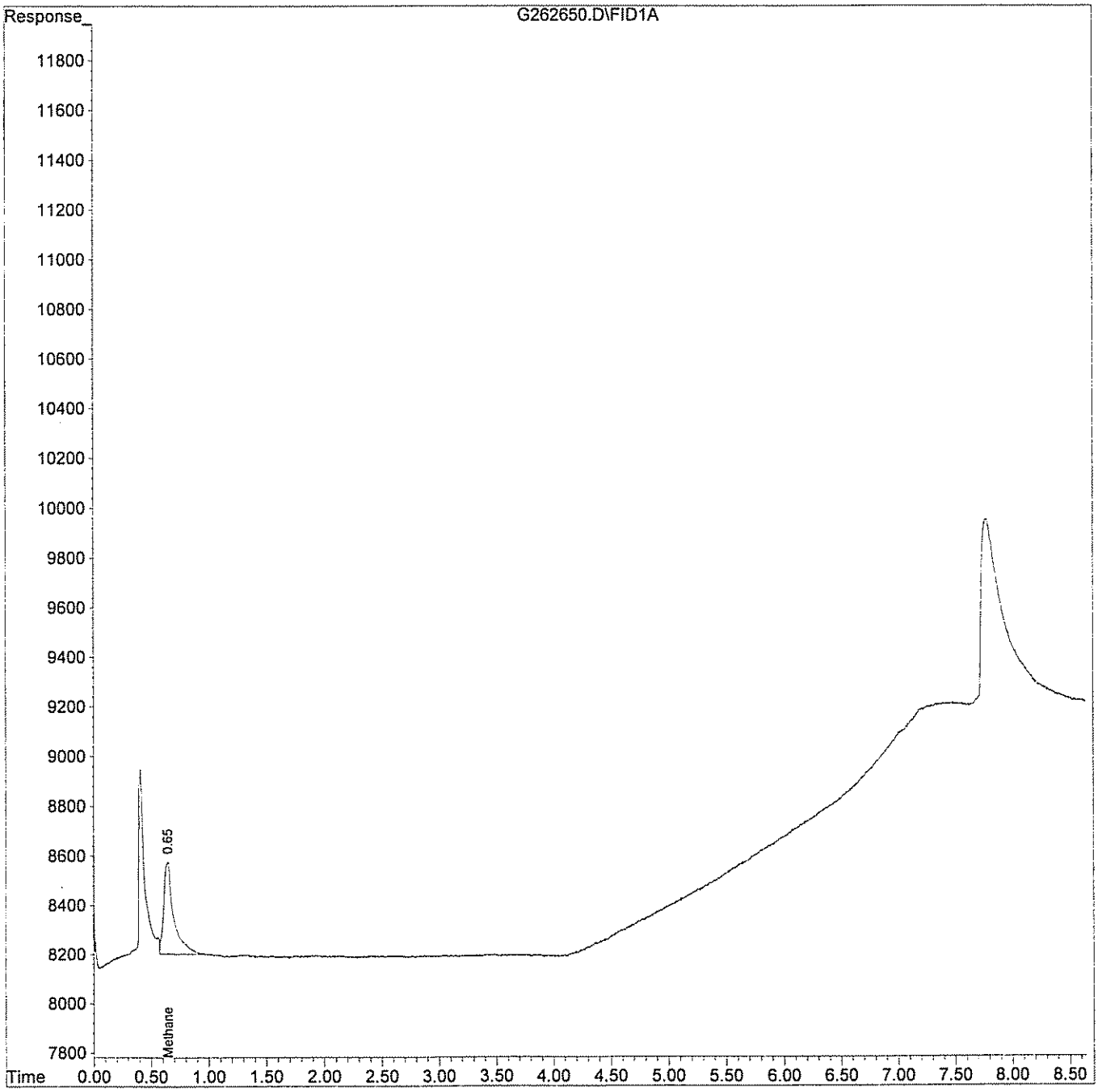
(f)=RT Delta > 1/2 Window (m)=manual int

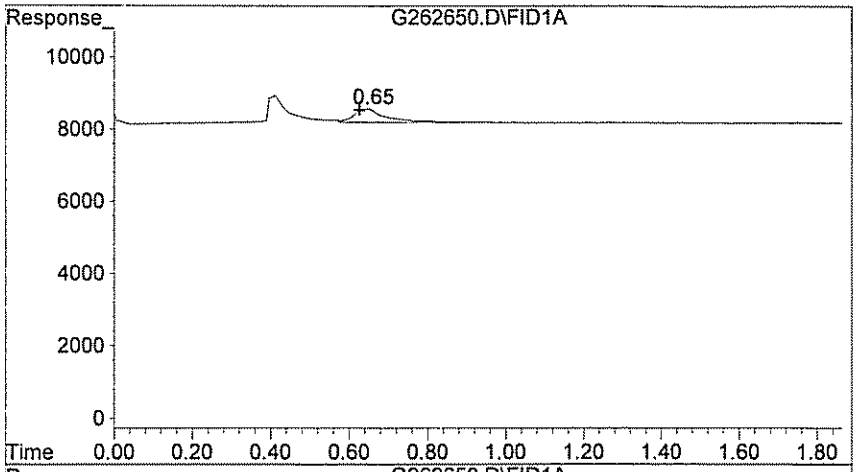
Quantitation Report

Data File : H:\GCDATA\G\032409\G262650.D Vial: 34
Acq On : 24 Mar 2009 17:10 Operator: TG
Sample : 903093-008 Inst : GC-G
Misc : OU1-16GW35-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 17:19 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

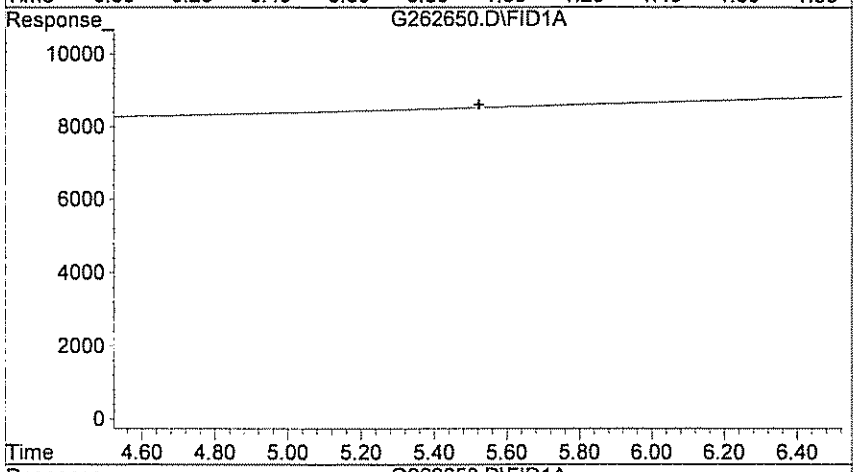
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





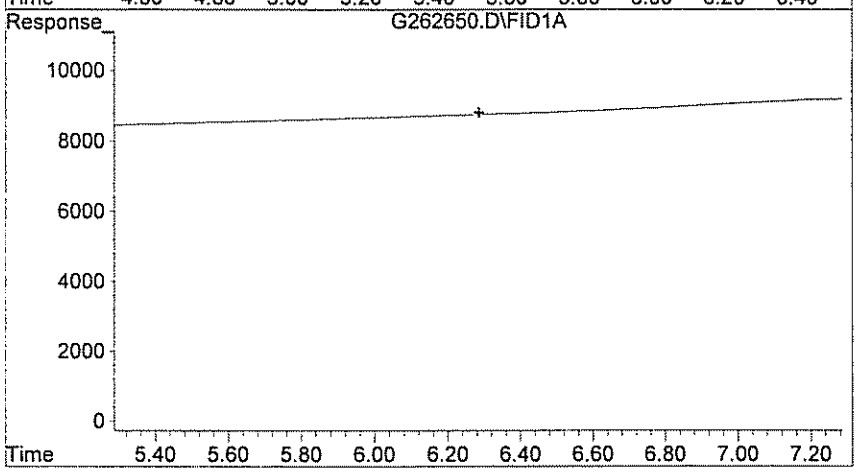
#1 Methane

R.T.:	0.647 min
Delta R.T.:	0.020 min
Response:	2268
Conc:	14.51 ppb m



#2 Ethylene

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009

Calibration Files
1 =G262567.D 2 =G262568.D 10 =G262571.D
5 =G262570.D 4 =G262569.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	1.844	1.715	1.208	1.507	1.544	1.563 E2	15.39
2)	T	Ethane	2.965	2.600	1.796	2.090	2.406	2.371 E1	19.04
3)	T	Ethylene	3.591	3.466	2.153	2.763	2.893	2.973 E1	19.52

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262567.D Vial: 1
Acq On : 20 Mar 2009 9:07 Operator: TG
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

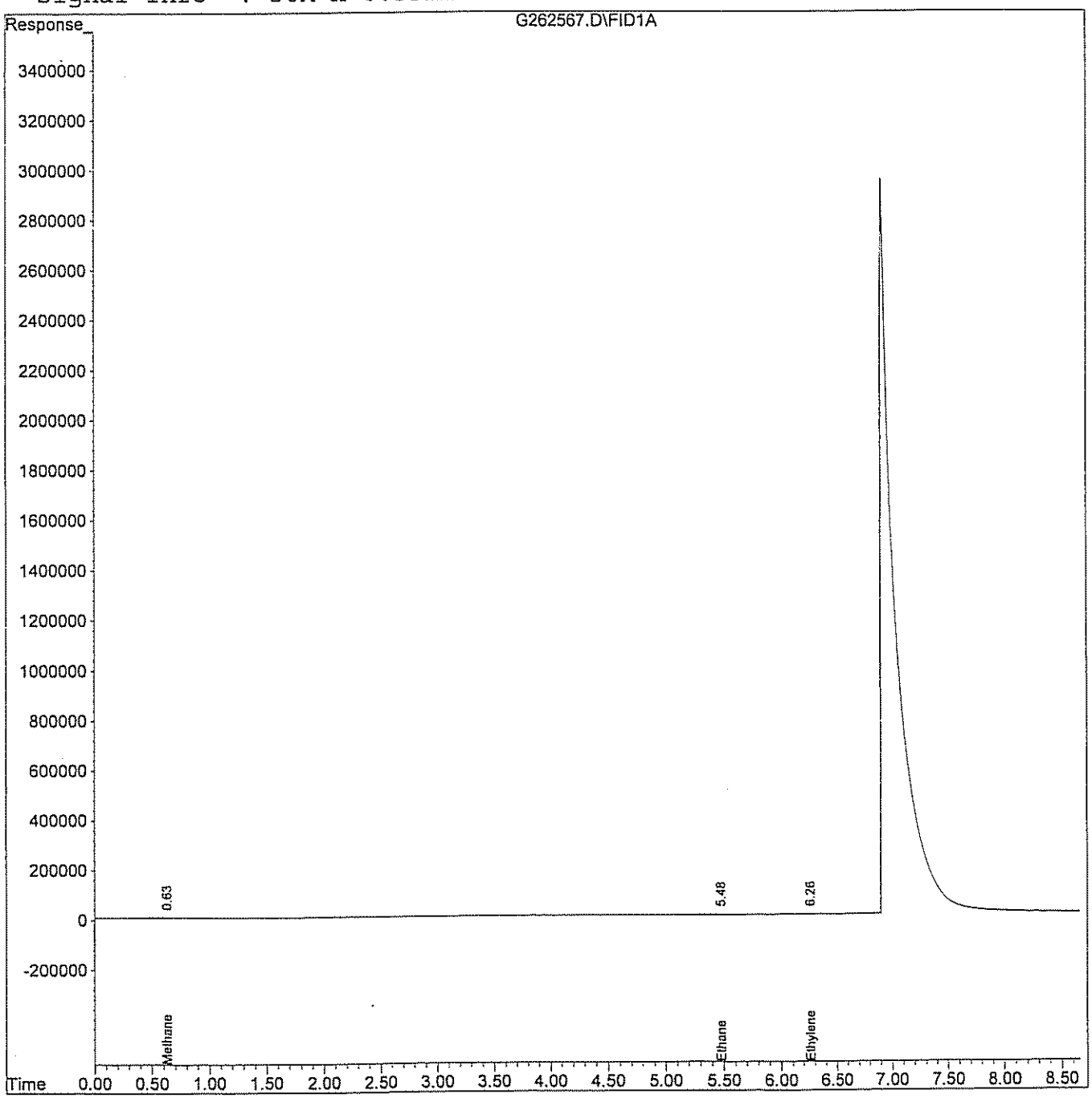
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	614	4.075	ppb	m
2) T	Ethane	5.48	185	8.853	ppb	m
3) T	Ethylene	6.26	209	7.565	ppb	m

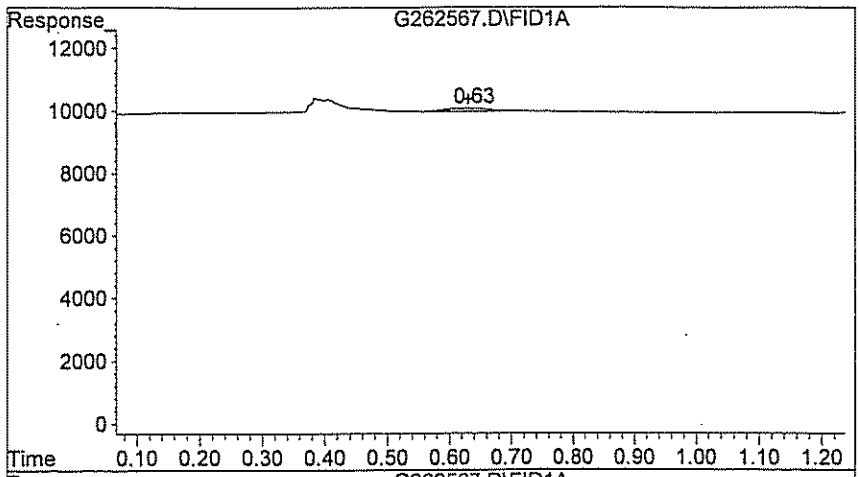
Quantitation Report

Data File : H:\GCDATA\G\032009\G262567.D Vial: 1
Acq On : 20 Mar 2009 9:07 Operator: TG
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

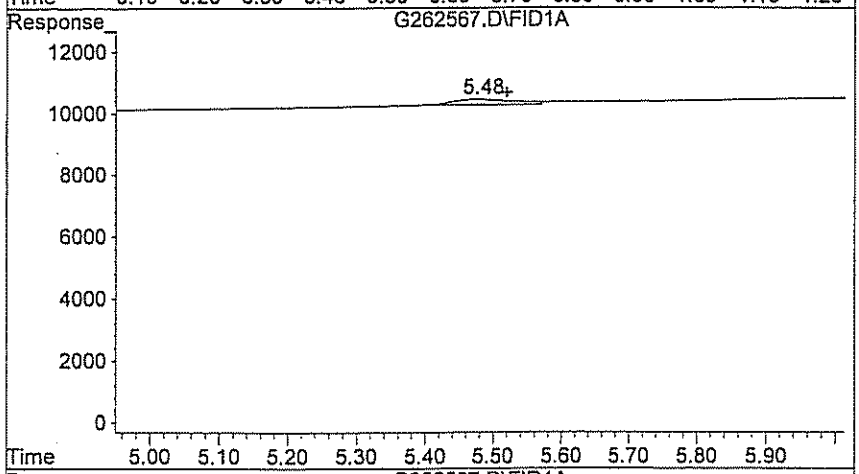
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





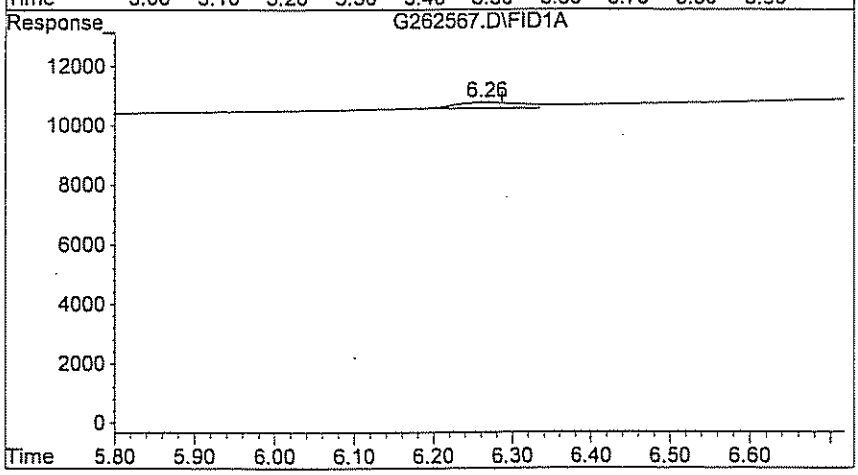
#1 Methane

R.T.: 0.630 min
Delta R.T.: 0.000 min
Response: 614
Conc: 4.08 ppb m



#2 Ethane

R.T.: 5.477 min
Delta R.T.: -0.043 min
Response: 185
Conc: 8.85 ppb m



#3 Ethylene

R.T.: 6.260 min
Delta R.T.: -0.027 min
Response: 209
Conc: 7.56 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262568.D Vial: 2
Acq On : 20 Mar 2009 9:23 Operator: TG
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) T Methane	0.61	1149	6.859	ppb	m
2) T Ethane	5.45	325	12.860	ppb	m
3) T Ethylene	6.25	402	12.654	ppb	m

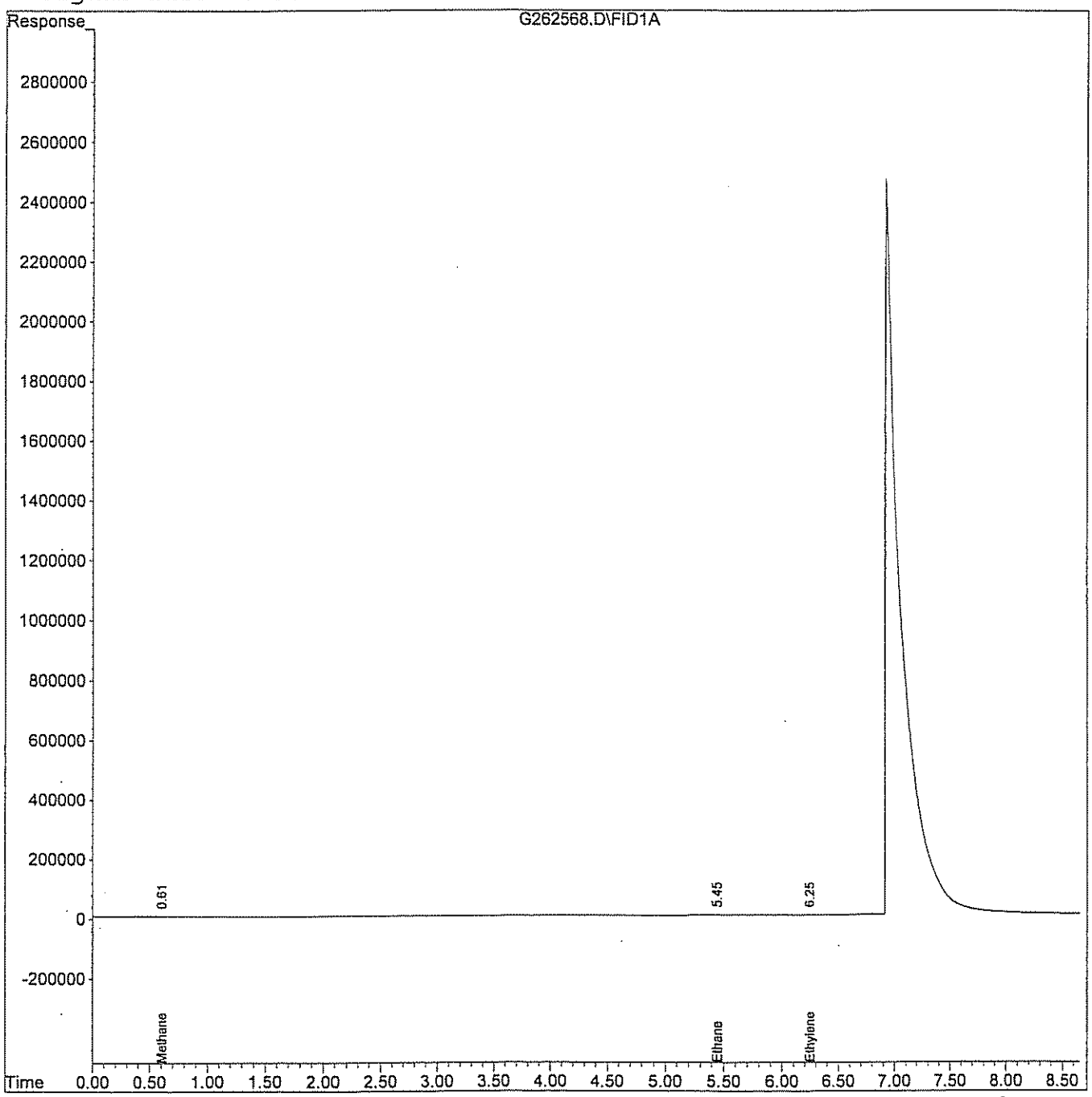
(f)=RT Delta > 1/2 Window (m)=manual int.
G262568.D RSK0320.M Fri Mar 20 11:43:05 2009 W28_IOANNIDE Page 1

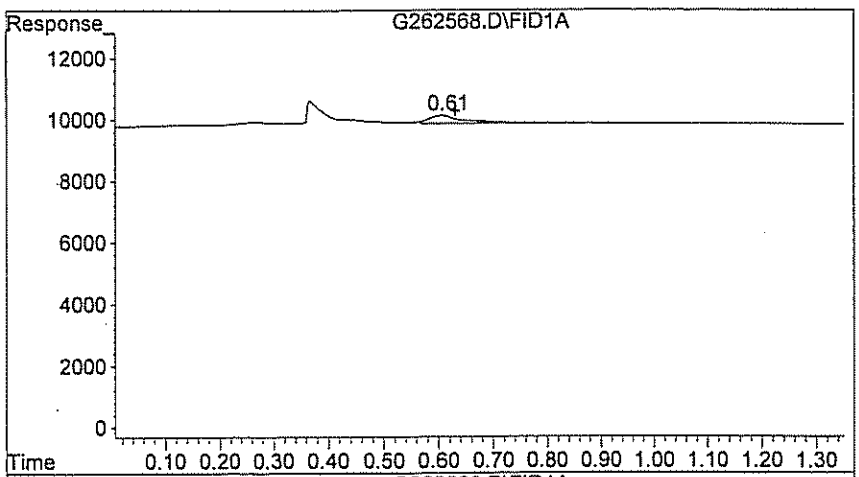
Quantitation Report

Data File : H:\GCDATA\G\032009\G262568.D Vial: 2
Acq On : 20 Mar 2009 9:23 Operator: TG
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

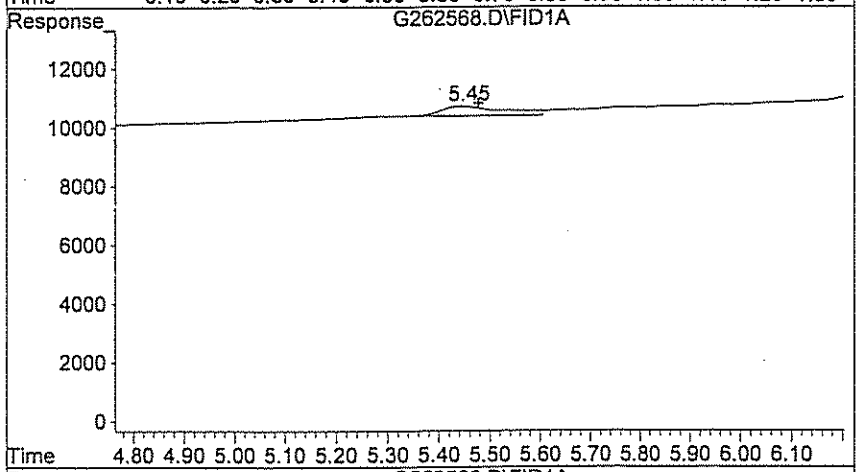
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





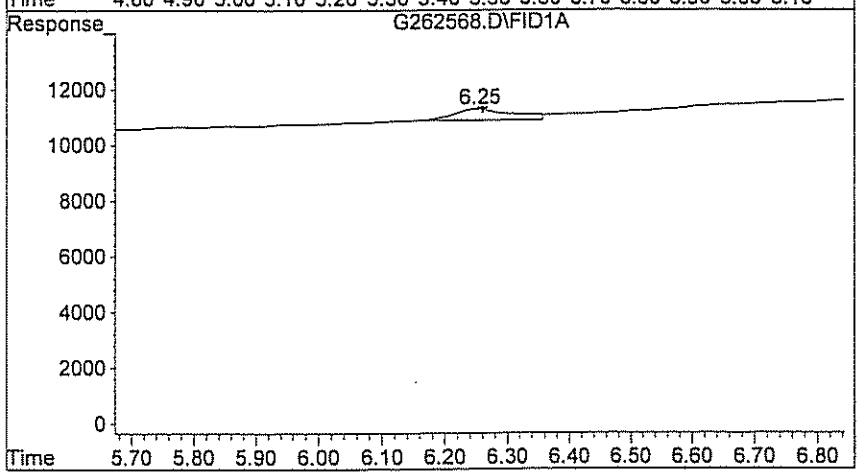
#1 Methane

R.T.: 0.607 min
Delta R.T.: -0.023 min
Response: 1149
Conc: 6.86 ppb m



#2 Ethane

R.T.: 5.447 min
Delta R.T.: -0.030 min
Response: 325
Conc: 12.86 ppb m



#3 Ethylene

R.T.: 6.247 min
Delta R.T.: -0.013 min
Response: 402
Conc: 12.65 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262569.D Vial: 3
Acq On : 20 Mar 2009 9:44 Operator: TG
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:32 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.62	2053	12.159	ppb	m
2) T	Ethane	5.51	599	23.476	ppb	m
3) T	Ethylene	6.29	674	20.592	ppb	m

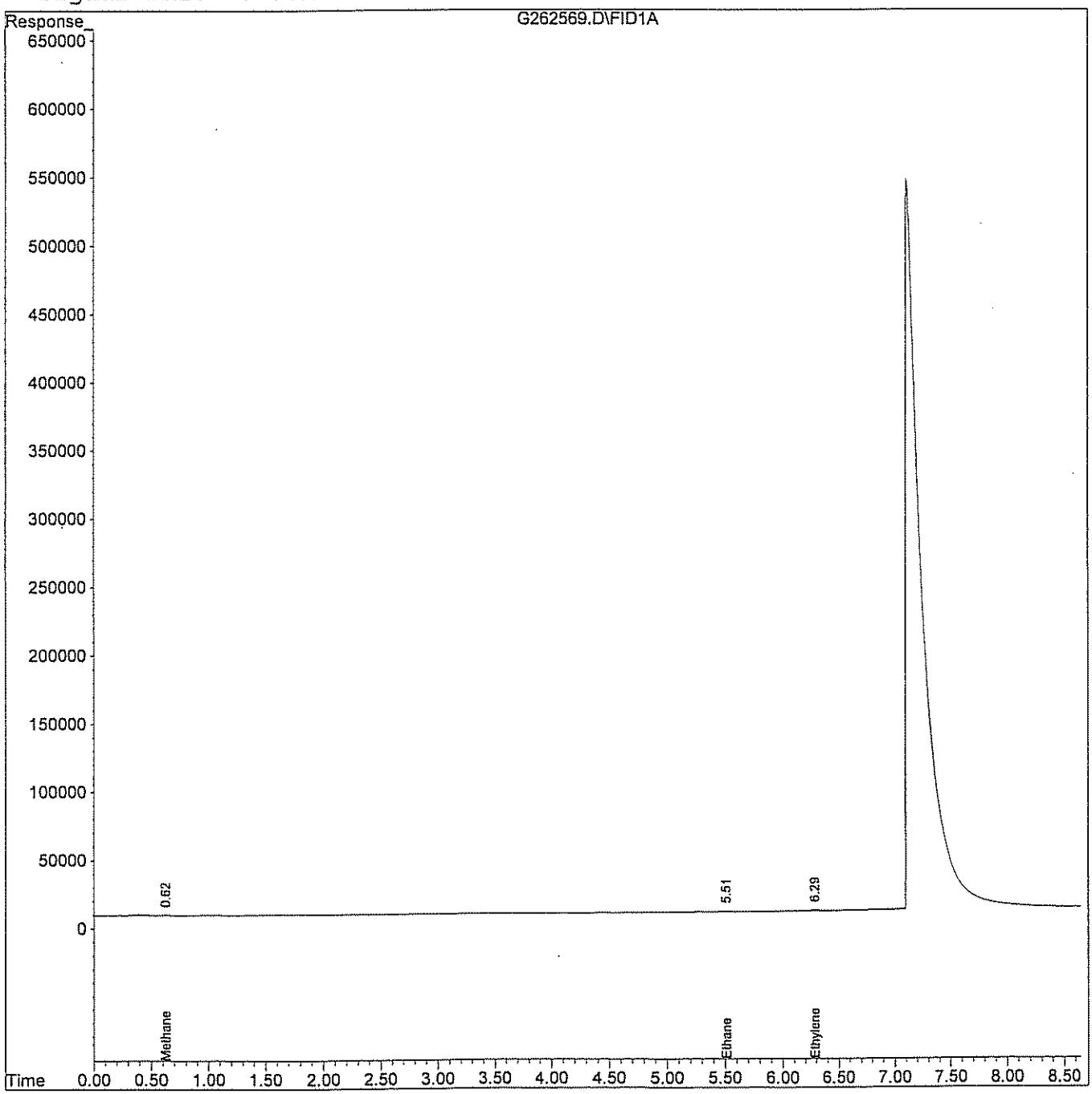
(f)=RT Delta > 1/2 Window (m)=manual Int.

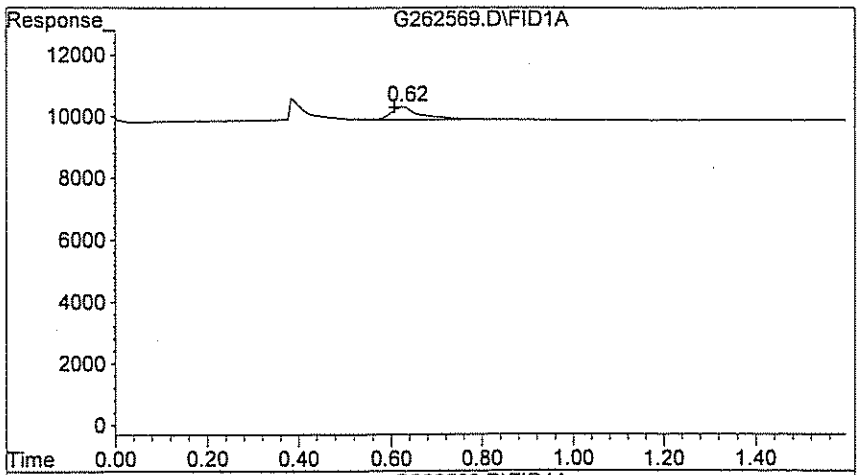
Quantitation Report

Data File : H:\GCDATA\G\032009\G262569.D Vial: 3
Acq On : 20 Mar 2009 9:44 Operator: TG
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:32 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

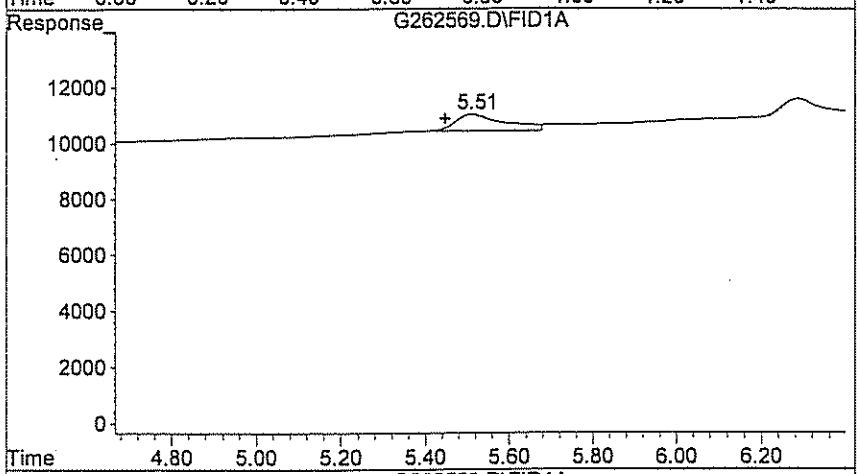
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





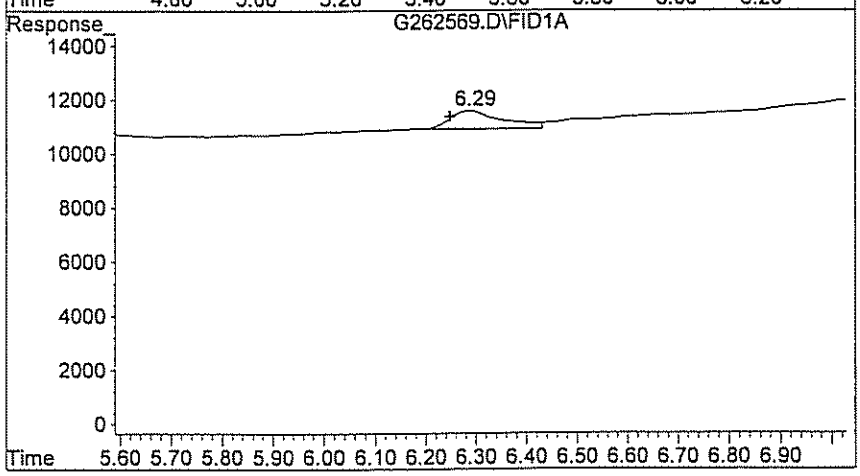
#1 Methane

R.T.: 0.623 min
Delta R.T.: 0.017 min
Response: 2053
Conc: 12.16 ppb m



#2 Ethane

R.T.: 5.510 min
Delta R.T.: 0.063 min
Response: 599
Conc: 23.48 ppb m



#3 Ethylene

R.T.: 6.287 min
Delta R.T.: 0.040 min
Response: 674
Conc: 20.59 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262571.D Vial: 5
Acq On : 20 Mar 2009 10:13 Operator: TG
Sample : CAL010 Inst : GC-G
Misc : CAL010 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	4022	24.343	ppb	m
2) T	Ethane	5.52	1121	44.572	ppb	
3) T	Ethylene	6.29	1253	39.427	ppb	

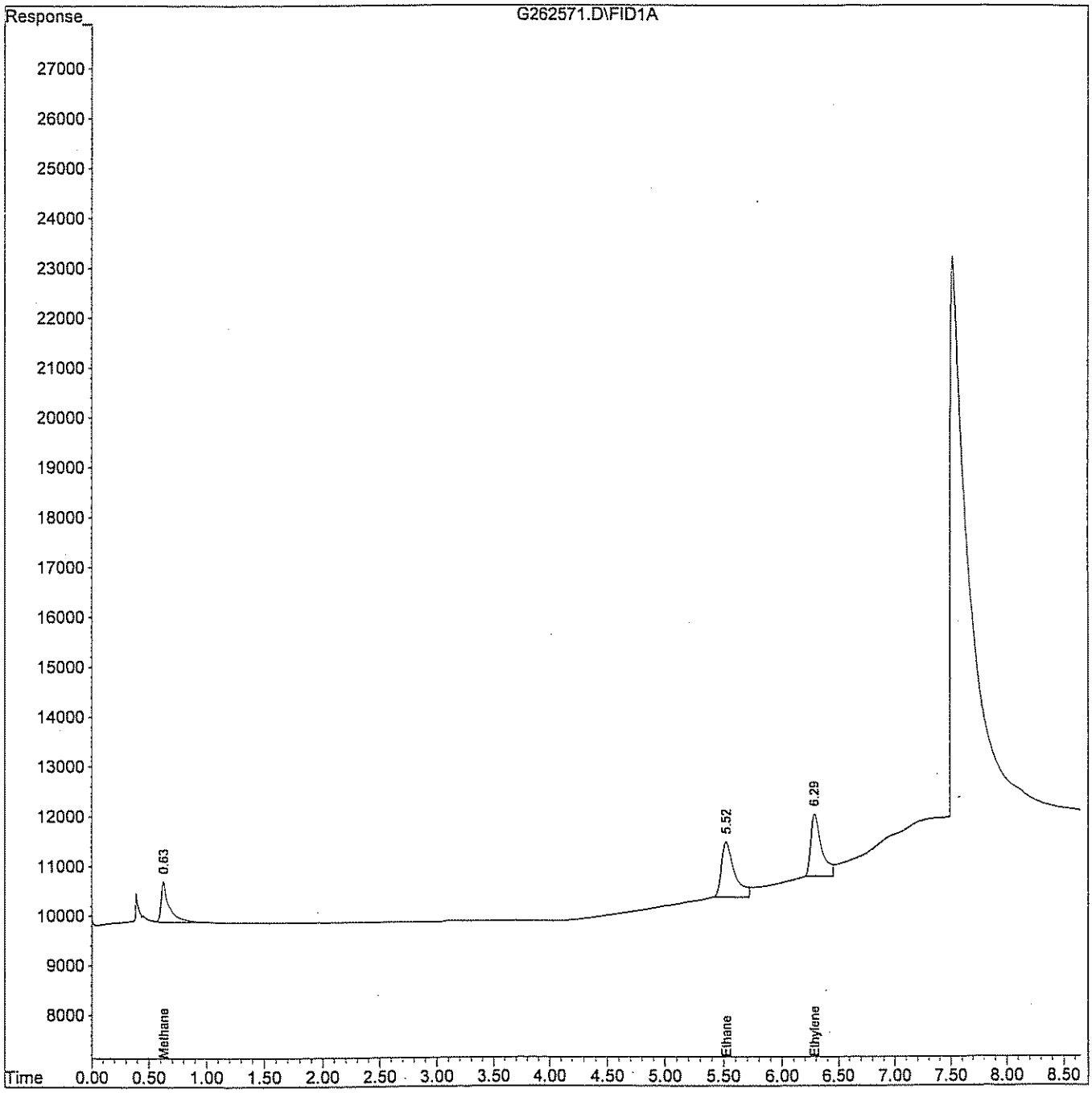
(f)=RT Delta > 1/2 Window (m)=manual int.

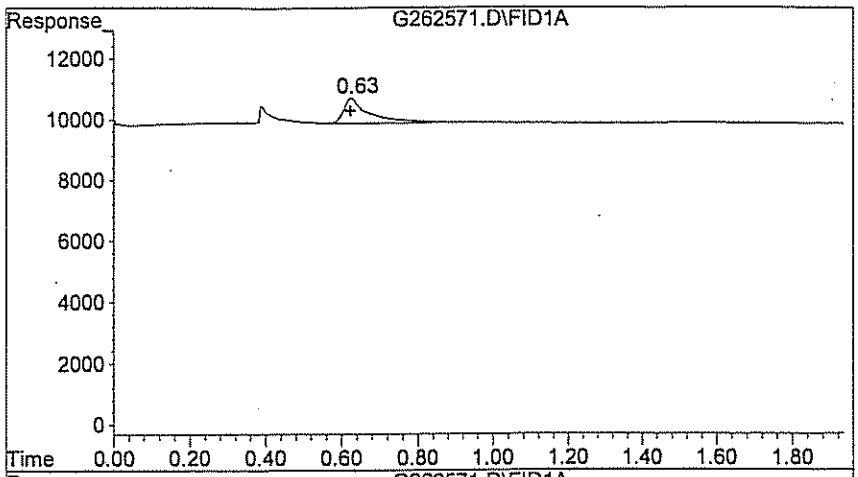
Quantitation Report

Data File : H:\GCDATA\G\032009\G262571.D Vial: 5
Acq On : 20 Mar 2009 10:13 Operator: TG
Sample : CAL010 Inst : GC-G
Misc : CAL010 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

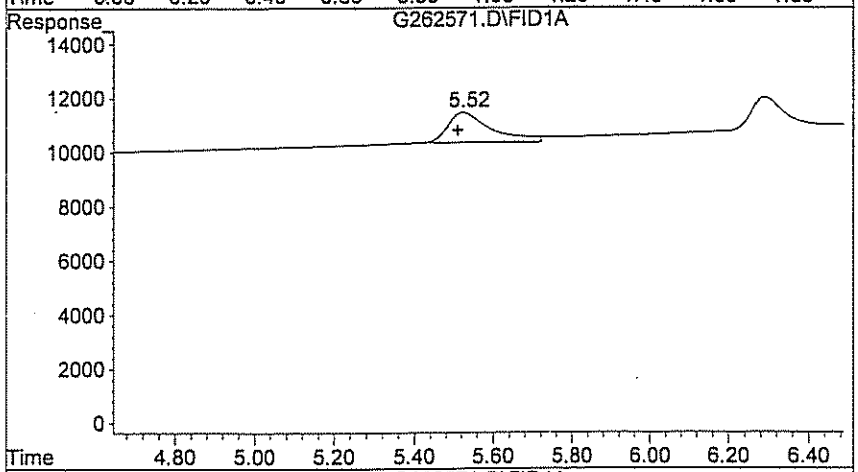
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





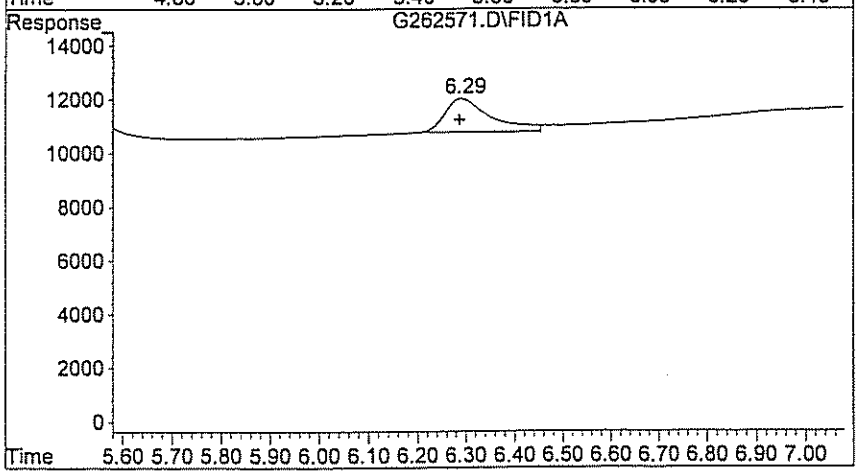
#1 Methane

R.T.: 0.627 min
Delta R.T.: 0.003 min
Response: 4022
Conc: 24.34 ppb m



#2 Ethane

R.T.: 5.523 min
Delta R.T.: 0.013 min
Response: 1121
Conc: 44.57 ppb



#3 Ethylene

R.T.: 6.287 min
Delta R.T.: 0.000 min
Response: 1253
Conc: 39.43 ppb

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262617.D Vial: 35
Acq On : 24 Mar 2009 6:59 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	143.072	8.5	95	0.02
2	T	Ethane	23.713	21.506	9.3	103	-0.02
3	T	Ethylene	29.730	25.808	13.2	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262617.D Vial: 35
Acq On : 24 Mar 2009 6:59 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:10 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	2375	15.192	ppb	m
2) T	Ethane	5.50	671	28.297	ppb	m
3) T	Ethylene	6.30	751	25.261	ppb	m

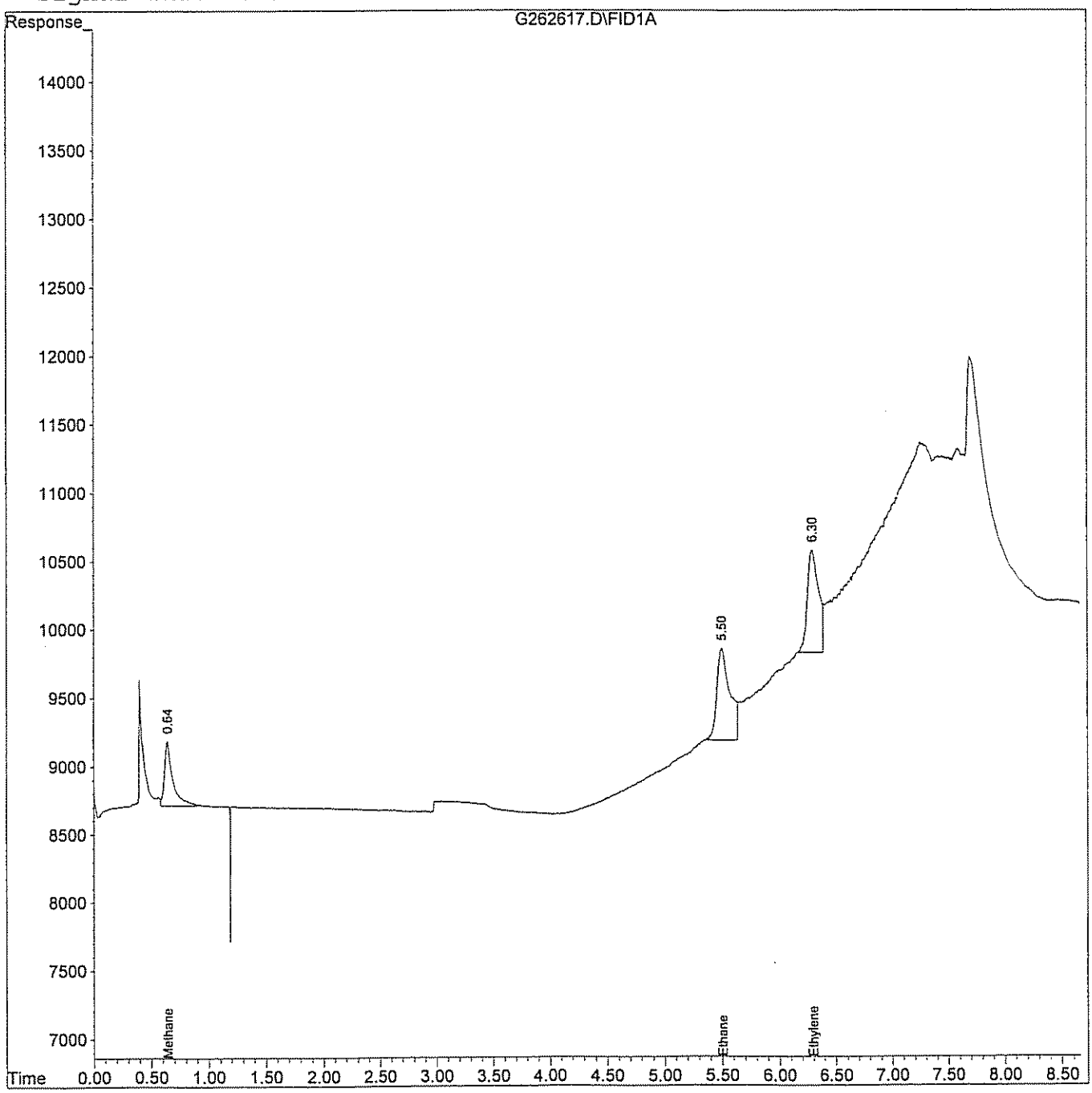
(f)=RT Delta > 1/2 Window (m)=manual

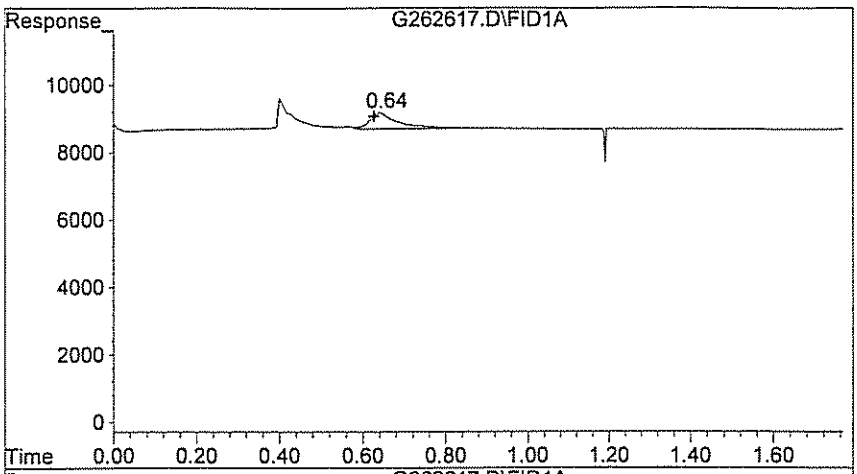
Quantitation Report

Data File : H:\GCDATA\G\032409\G262617.D Vial: 35
Acq On : 24 Mar 2009 6:59 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:10 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

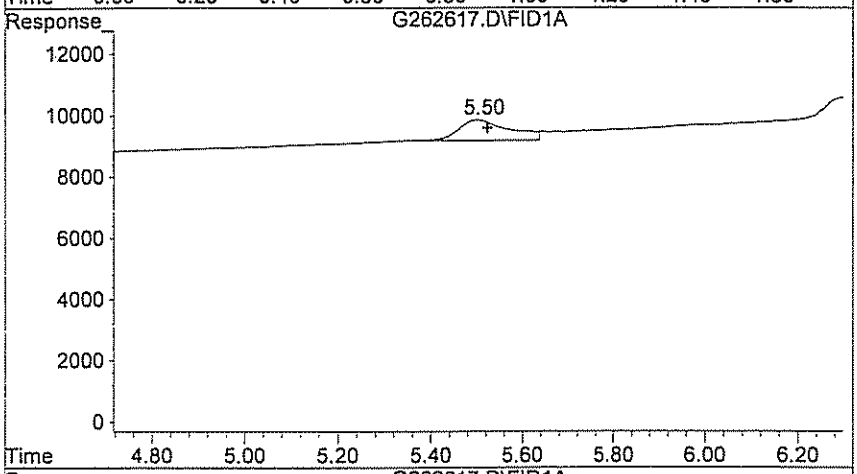
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





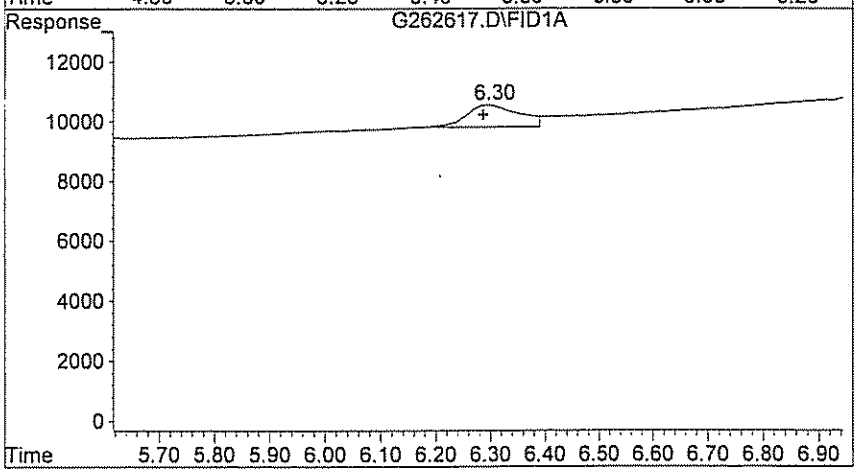
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 2375
Conc: 15.19 ppb m



#2 Ethane

R.T.: 5.503 min
Delta R.T.: -0.020 min
Response: 671
Conc: 28.30 ppb m



#3 Ethylene

R.T.: 6.297 min
Delta R.T.: 0.010 min
Response: 751
Conc: 25.26 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262629.D Vial: 13
Acq On : 24 Mar 2009 10:38 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	162.229	-3.8	108	0.03
2	T	Ethane	23.713	19.327	18.5	92	0.00
3	T	Ethylene	29.730	23.918	19.5	87	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262629.D Vial: 13
Acq On : 24 Mar 2009 10:38 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 10:53 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.65	2693	17.226	ppb	m
2)	T	Ethane	5.53	603	25.429	ppb	m
3)	T	Ethylene	6.31	696	23.411	ppb	m

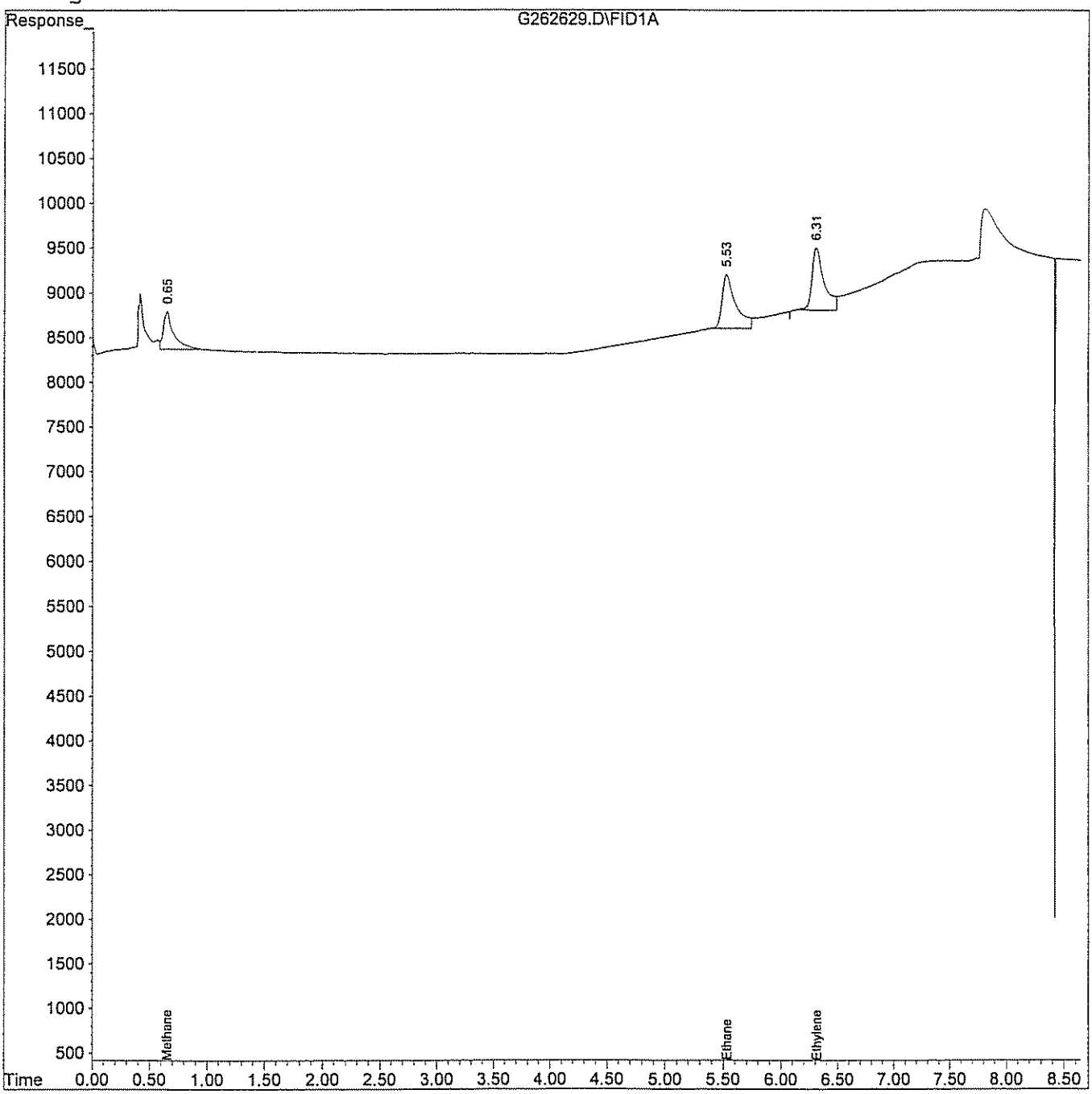
(f)=RT Delta > 1/2 Window (m)=manual integ.

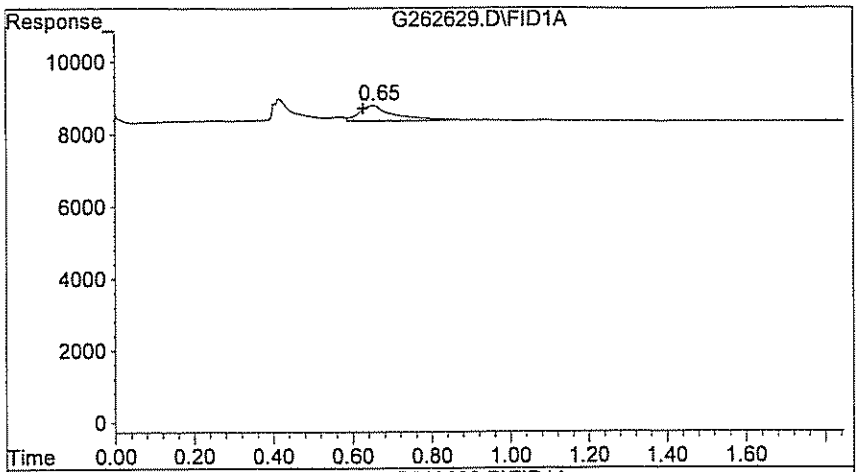
Quantitation Report

Data File : H:\GCDATA\G\032409\G262629.D Vial: 13
Acq On : 24 Mar 2009 10:38 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 10:53 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

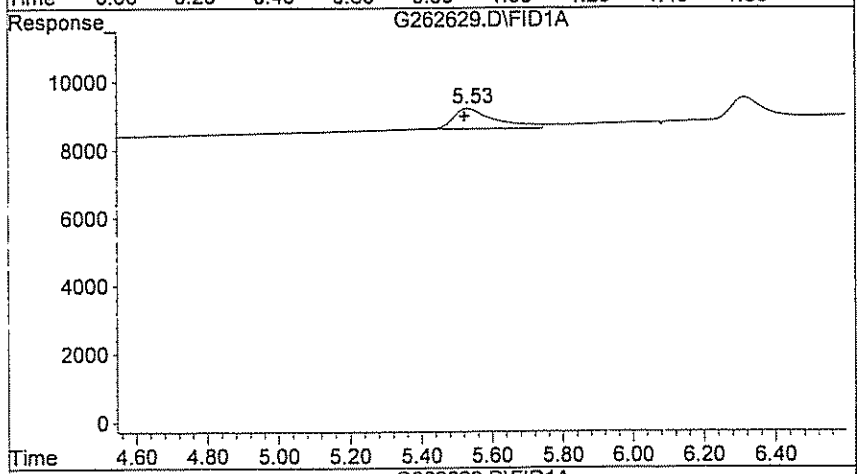
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





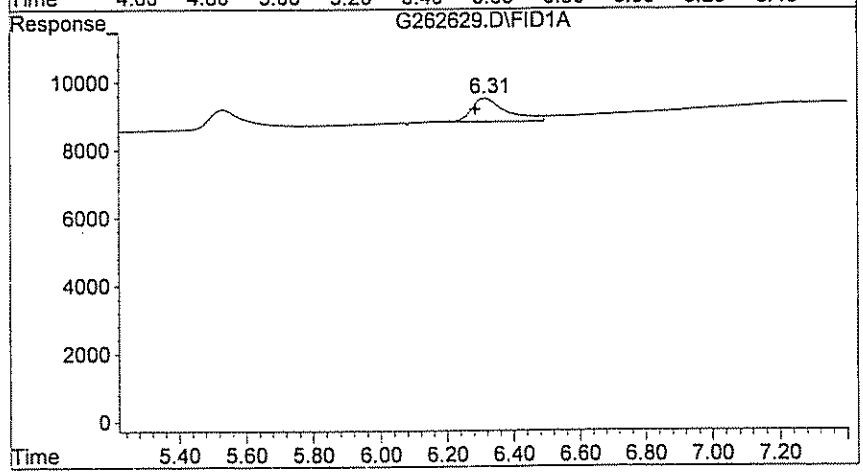
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.027 min
Response: 2693
Conc: 17.23 ppb m



#2 Ethane

R.T.: 5.530 min
Delta R.T.: 0.007 min
Response: 603
Conc: 25.43 ppb m



#3 Ethylene

R.T.: 6.313 min
Delta R.T.: 0.027 min
Response: 696
Conc: 23.41 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262639.D Vial: 23
Acq On : 24 Mar 2009 13:45 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	150.482	3.7	100	0.02
2	T	Ethane	23.713	20.545	13.4	98	0.03
3	T	Ethylene	29.730	25.430	14.5	92	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262639.D Vial: 23
Acq On : 24 Mar 2009 13:45 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 13:56 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.65	2498	15.978	ppb	m
2)	T	Ethane	5.55	641	27.031	ppb	m
3)	T	Ethylene	6.32	740	24.891	ppb	m

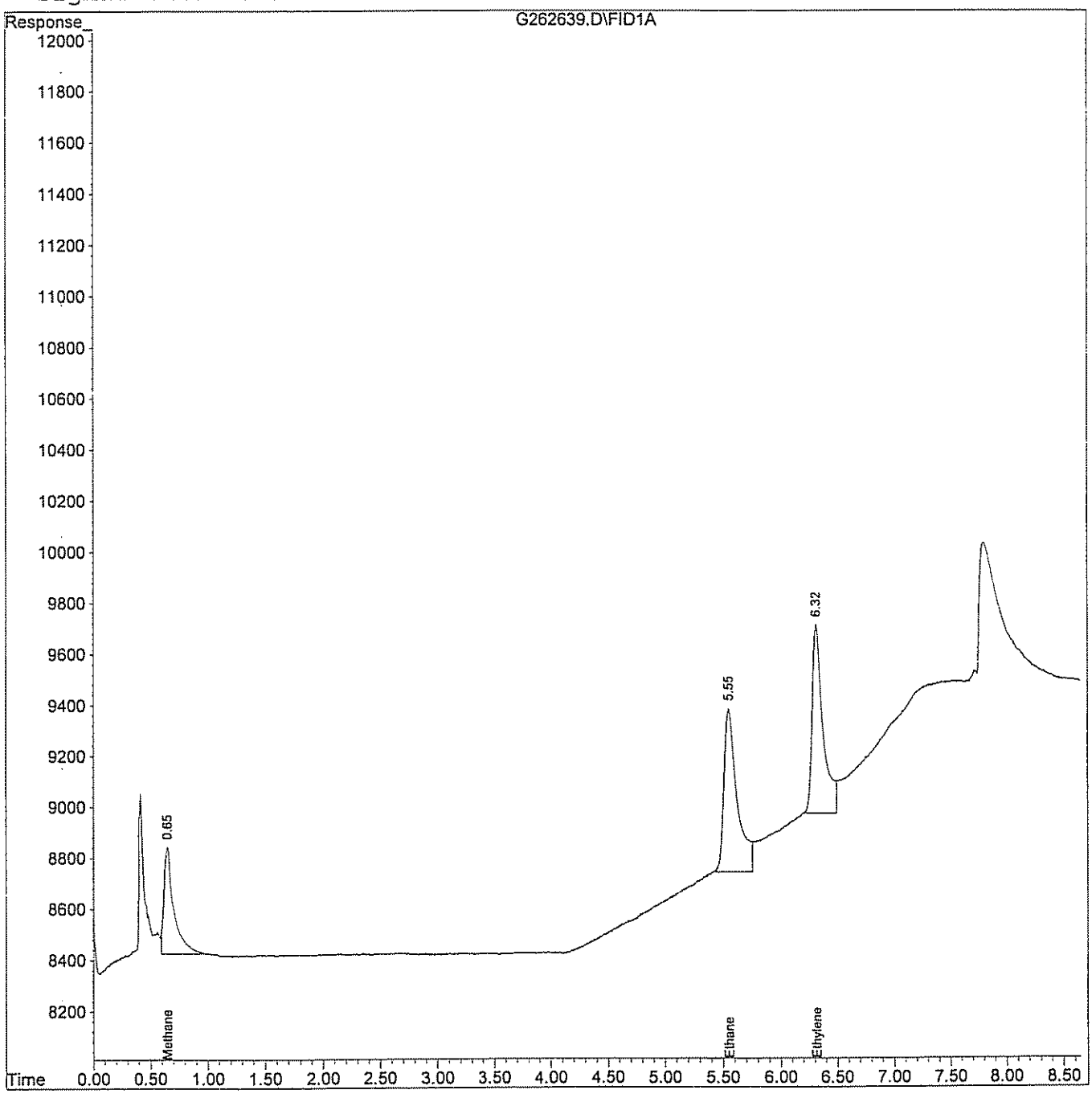
(f)=RT Delta > 1/2 Window (m)=manual int

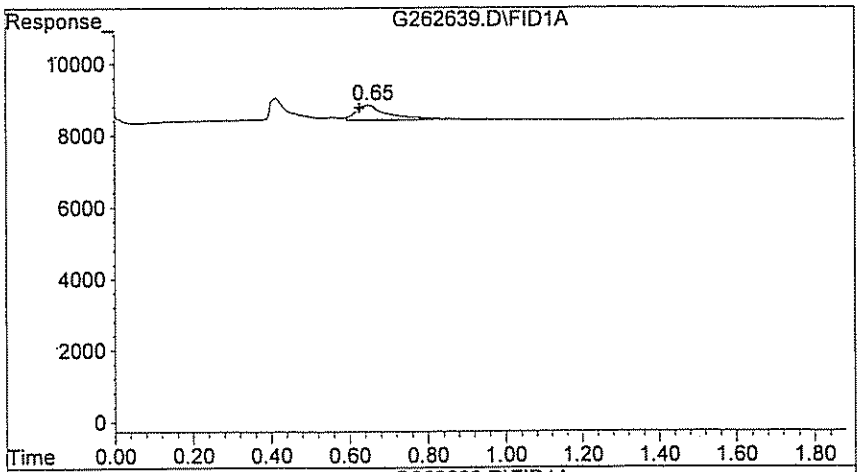
Quantitation Report

Data File : H:\GCDATA\G\032409\G262639.D Vial: 23
Acq On : 24 Mar 2009 13:45 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 13:56 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

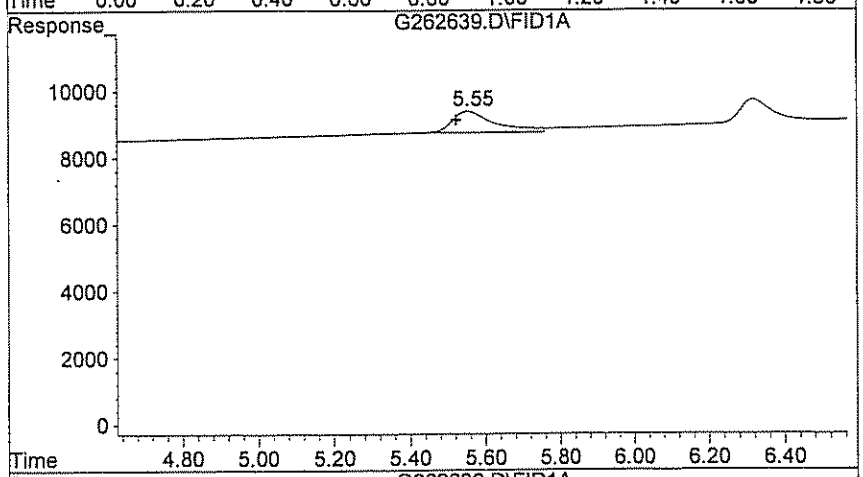
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





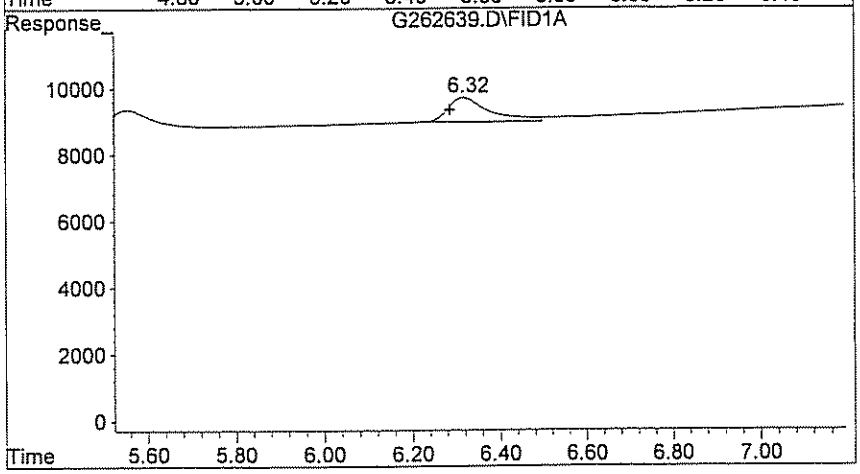
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 2498
Conc: 15.98 ppb m



#2 Ethane

R.T.: 5.553 min
Delta R.T.: 0.030 min
Response: 641
Conc: 27.03 ppb m



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.030 min
Response: 740
Conc: 24.89 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032409\G262653.D Vial: 37
Acq On : 24 Mar 2009 18:06 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	150.843	3.5	100	0.02
2	T	Ethane	23.713	22.564	4.8	108	0.03
3	T	Ethylene	29.730	26.117	12.2	95	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report - Not Founds

Data File : H:\GCDATA\G\032409\G262653.D Vial: 37
Acq On : 24 Mar 2009 18:06 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262653.D Vial: 37
Acq On : 24 Mar 2009 18:06 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 18:17 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2504	16.017	ppb	m
2) T	Ethane	5.55	704	29.688	ppb	
3) T	Ethylene	6.32	760	25.563	ppb	

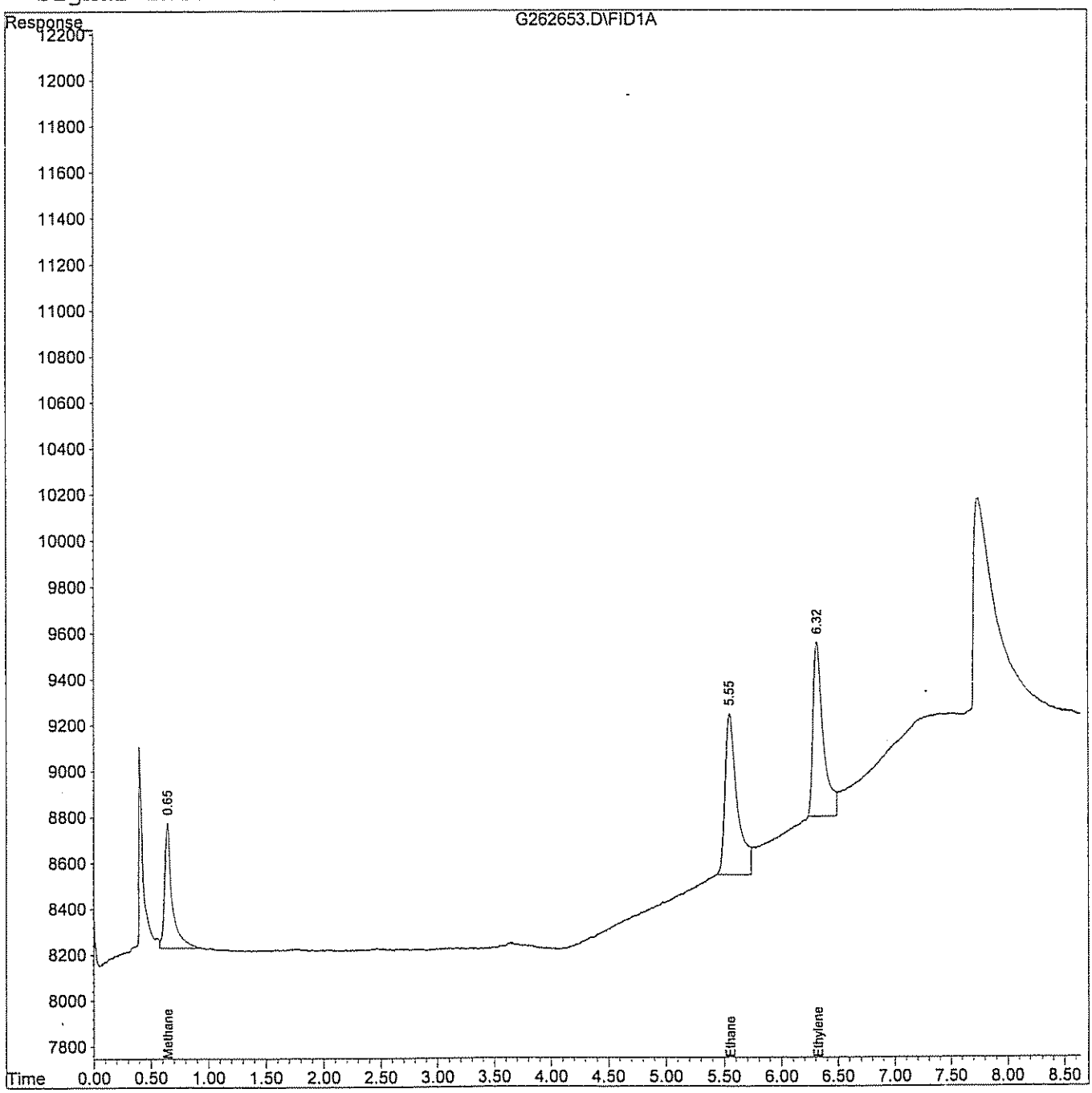
(f)=RT Delta > 1/2 Window (m)=manual int.

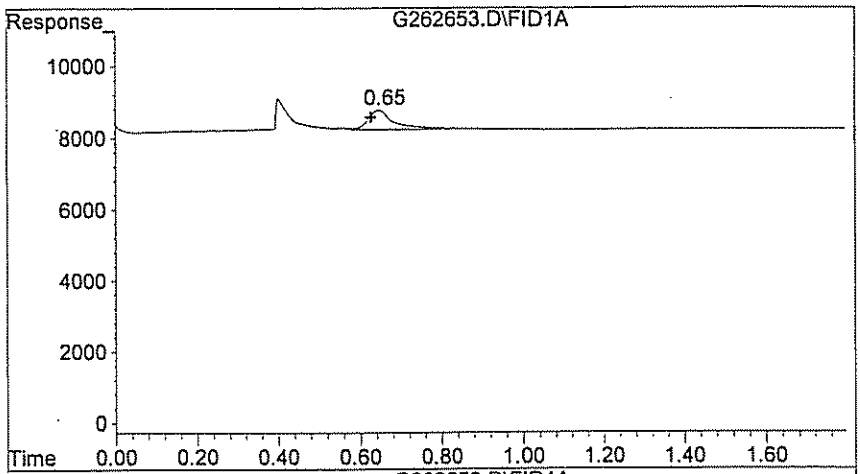
Quantitation Report

Data File : H:\GCDATA\G\032409\G262653.D Vial: 37
Acq On : 24 Mar 2009 18:06 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 18:17 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

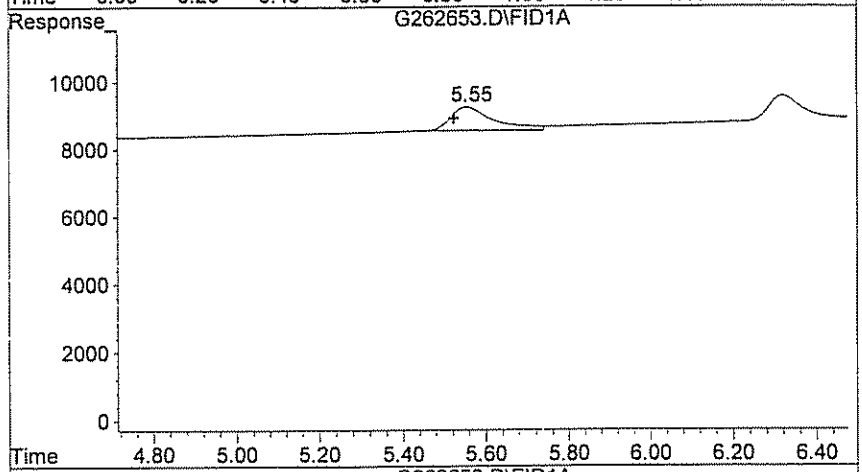
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





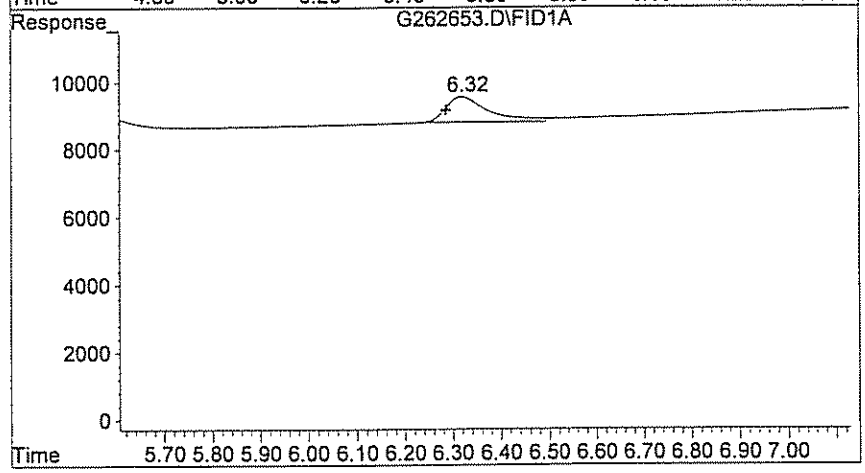
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 2504
Conc: 16.02 ppb m



#2 Ethane

R.T.: 5.553 min
Delta R.T.: 0.030 min
Response: 704
Conc: 29.69 ppb



#3 Ethylene

R.T.: 6.320 min
Delta R.T.: 0.033 min
Response: 760
Conc: 25.56 ppb

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

6. Injection Logsheet

7. Control Charts (where applicable)

GPL Laboratories

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108833

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108833
Sample Volume :	10	Lab File ID :	G262618.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262618.D Vial: 36
Acq On : 24 Mar 2009 7:28 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:38 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) T Methane	0.00	0	N.D.	ppb	d
2) T Ethane	0.00	0	N.D.	ppb	
3) T Ethylene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manually integ

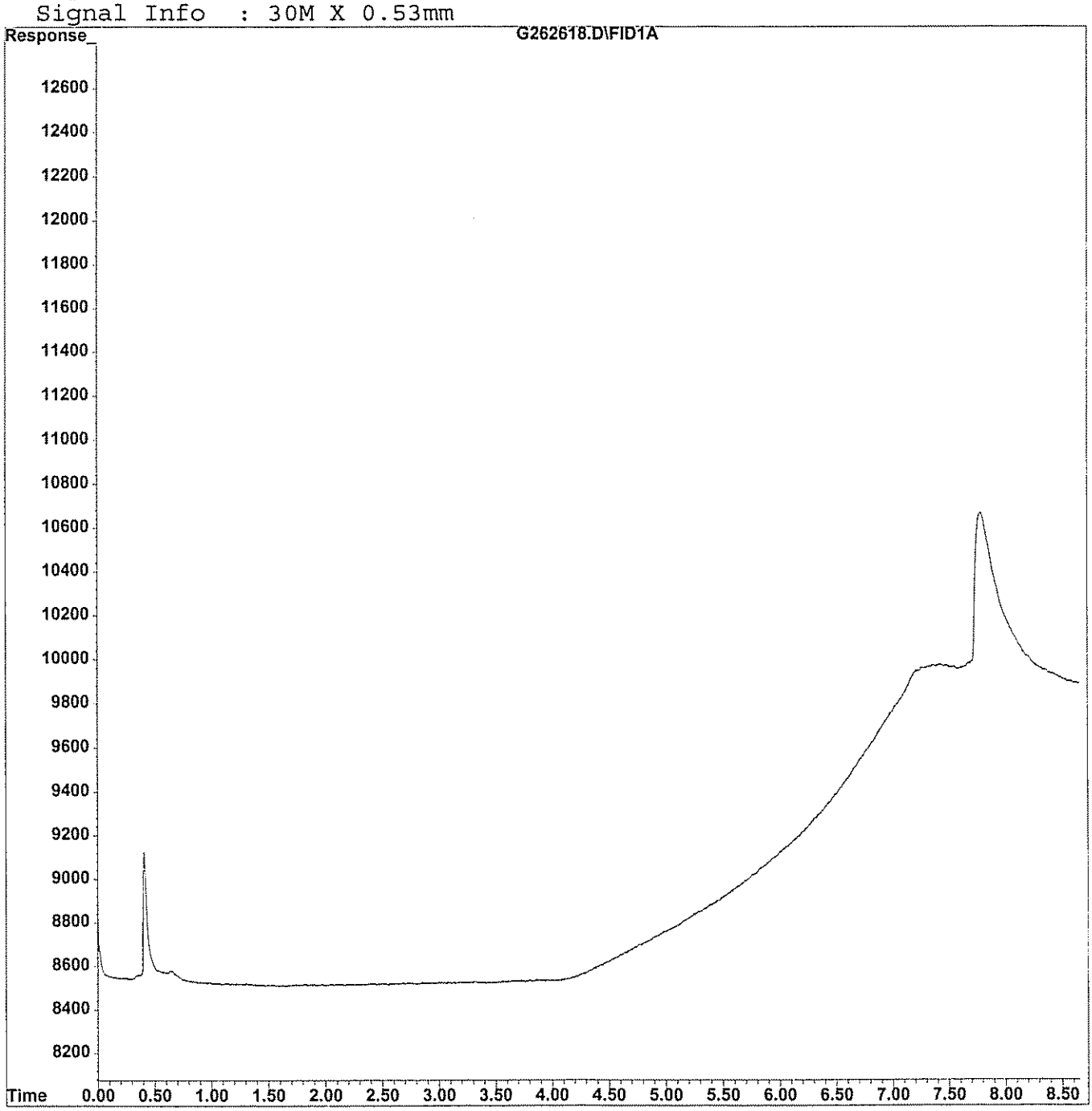
G262618.D RSK0320.M Fri Mar 27 10:19:53 2009 W28_IOANNIDE Page 1

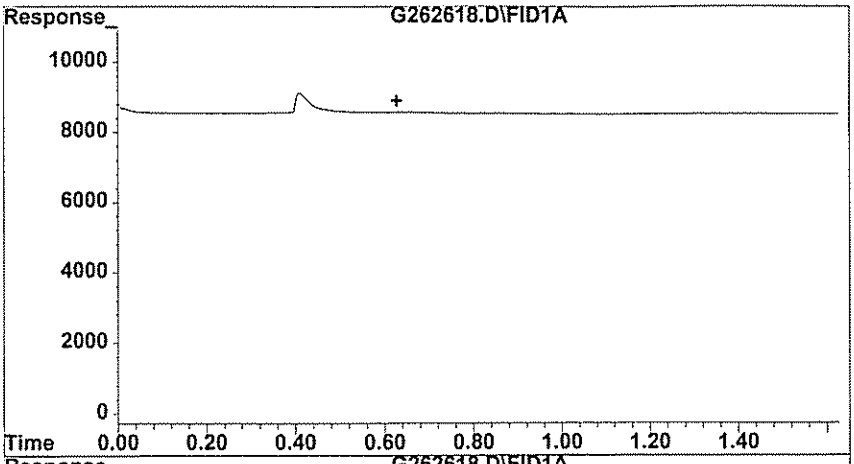
Quantitation Report

Data File : H:\GCDATA\G\032409\G262618.D Vial: 36
Acq On : 24 Mar 2009 7:28 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 7:38 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

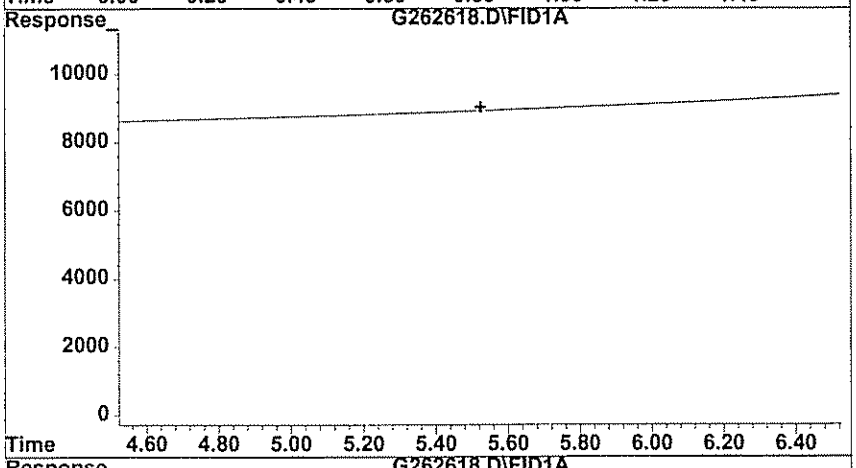
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





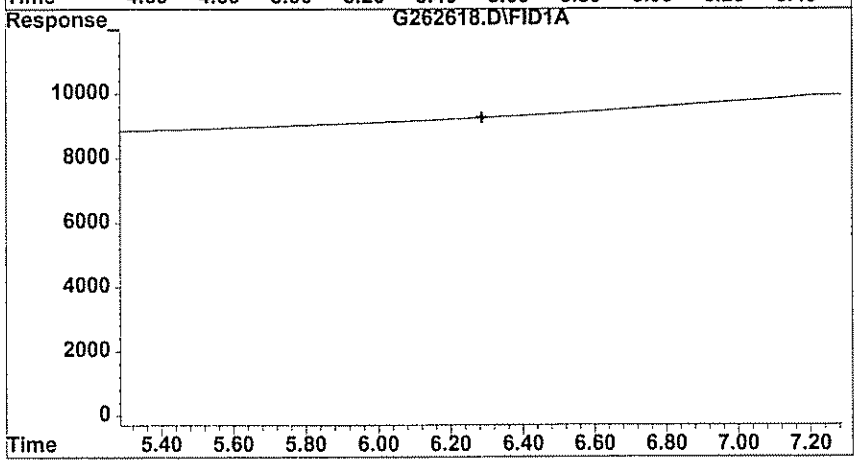
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethylene

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108834

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903093
Case No. :		SDG NO :	903093
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108834
Sample Volume :	10	Lab File ID :	G262640.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/24/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032409\G262640.D Vial: 24
Acq On : 24 Mar 2009 14:25 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 14:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.00	0	N.D.	ppb	d
2)	T	Ethane	0.00	0	N.D.	ppb	
3)	T	Ethylene	0.00	0	N.D.	ppb	

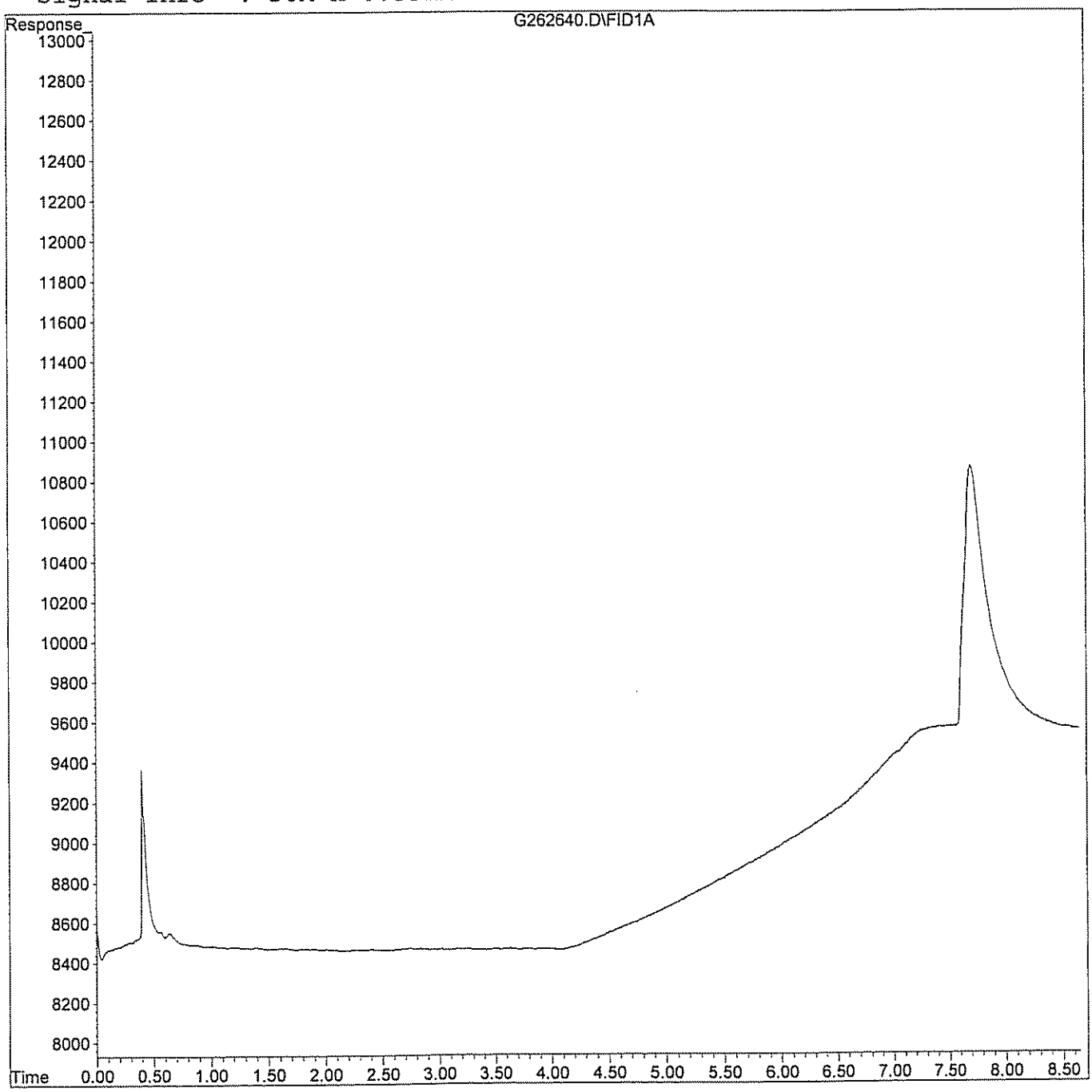
(f)=RT Delta > 1/2 Window (m)=manual int

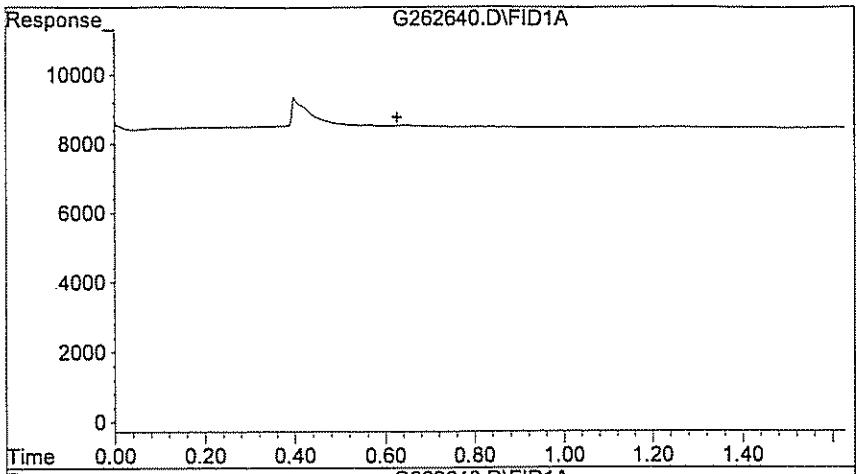
Quantitation Report

Data File : H:\GCDATA\G\032409\G262640.D Vial: 24
Acq On : 24 Mar 2009 14:25 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 24 14:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

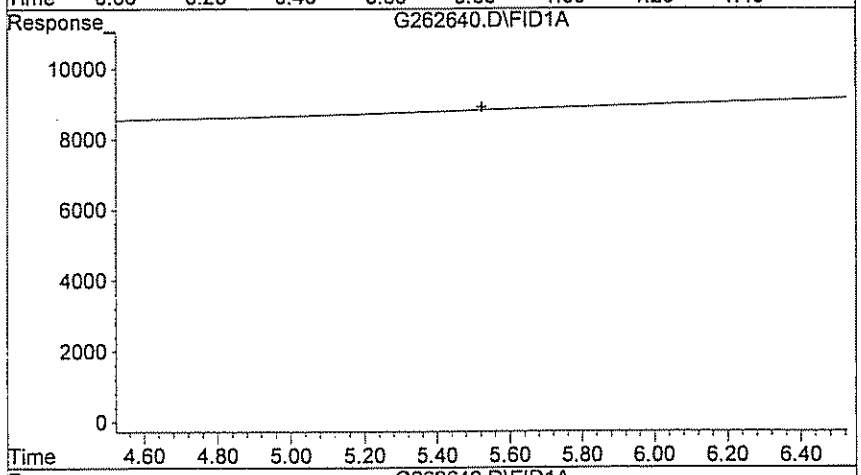
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





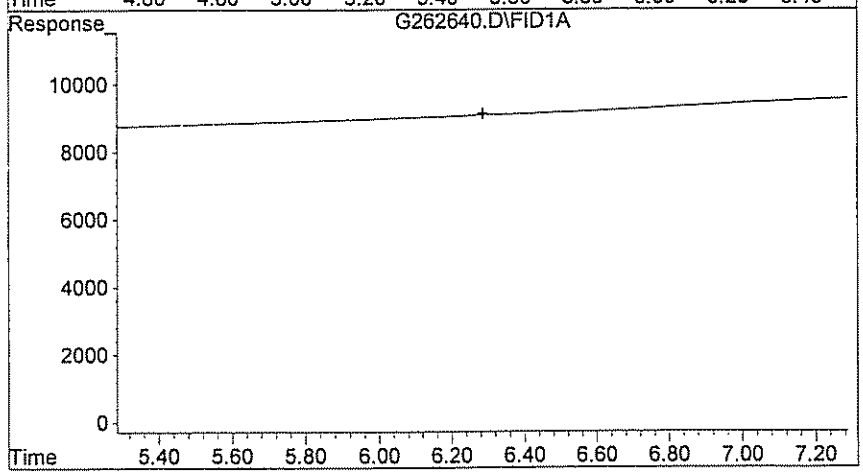
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-032-1/2MS
Sample Volume :	10	Lab File ID :	G262579.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	30	
74-85-1	Ethene	26	
74-82-8	Methane	16	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262579.D Vial: 13
Acq On : 20 Mar 2009 14:23 Operator: TG
Sample : 903062-006MS Inst : GC-G
Misc : OUI-16GW01-0309, CH2M, WATER, 10MLMS Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 14:49 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) T	Methane	0.62	2423	15.499 ppb
2) T	Ethane	5.52	701	29.562 ppb
3) T	Ethylene	6.29	759	25.530 ppb

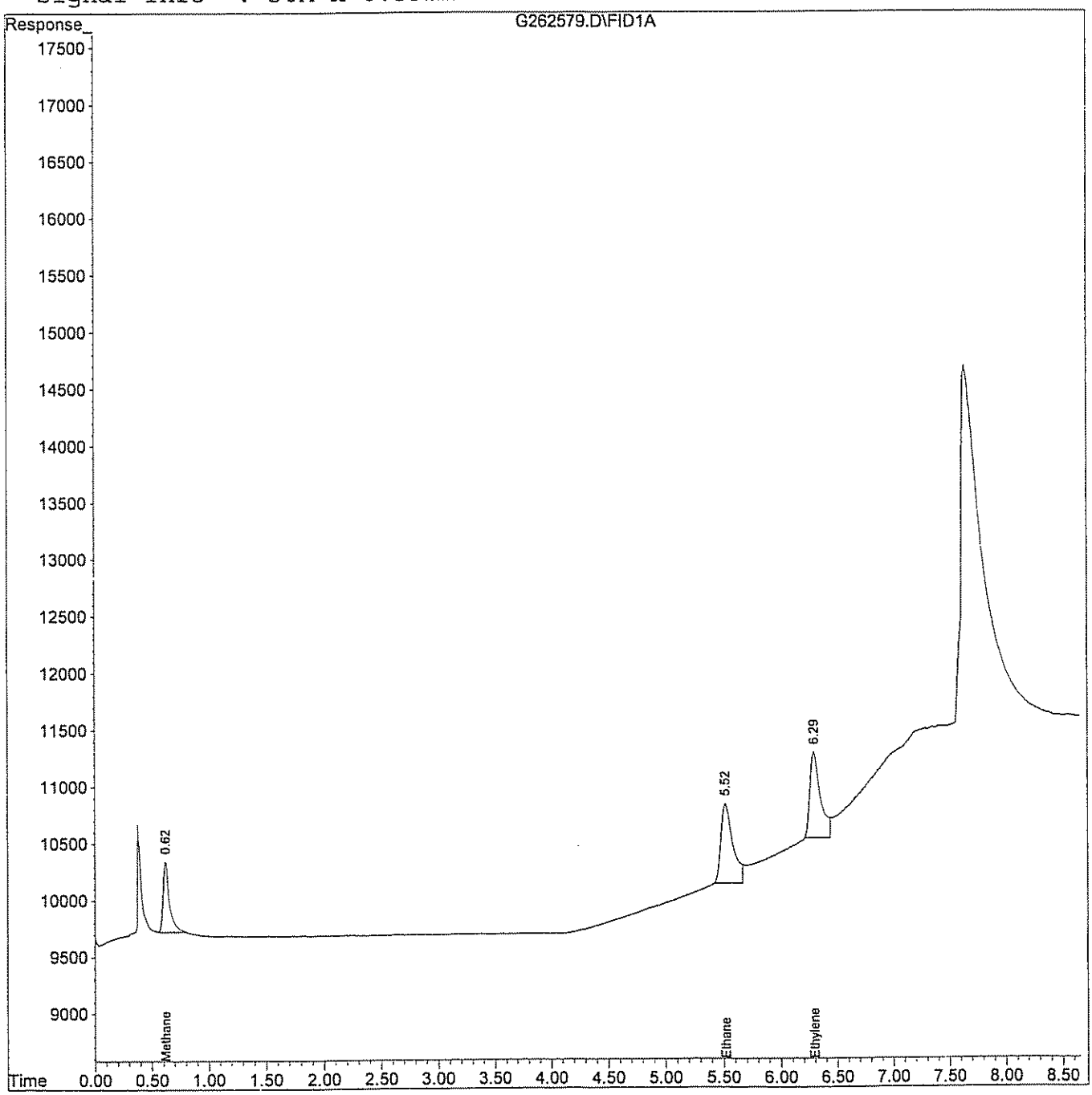
(f)=RT Delta > 1/2 Window (m)=manual

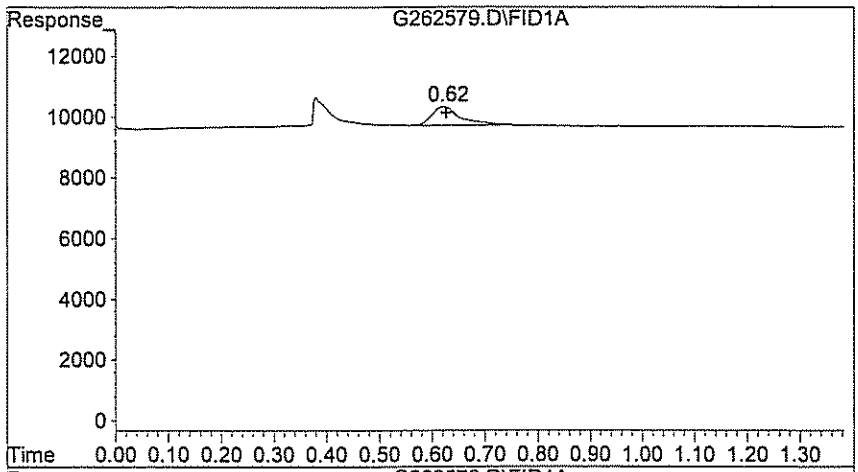
Quantitation Report

Data File : H:\GCDATA\G\032009\G262579.D Vial: 13
Acq On : 20 Mar 2009 14:23 Operator: TG
Sample : 903062-006MS Inst : GC-G
Misc : OUI-16GW01-0309, CH2M, WATER, 10MLMS Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 14:49 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

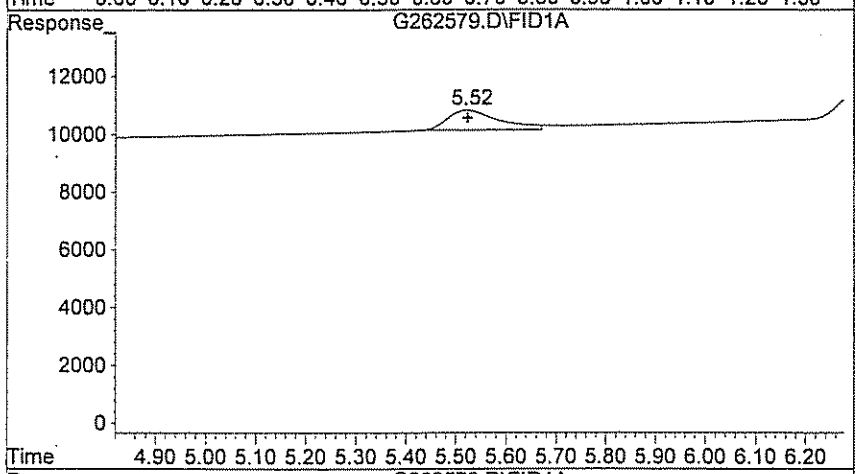
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





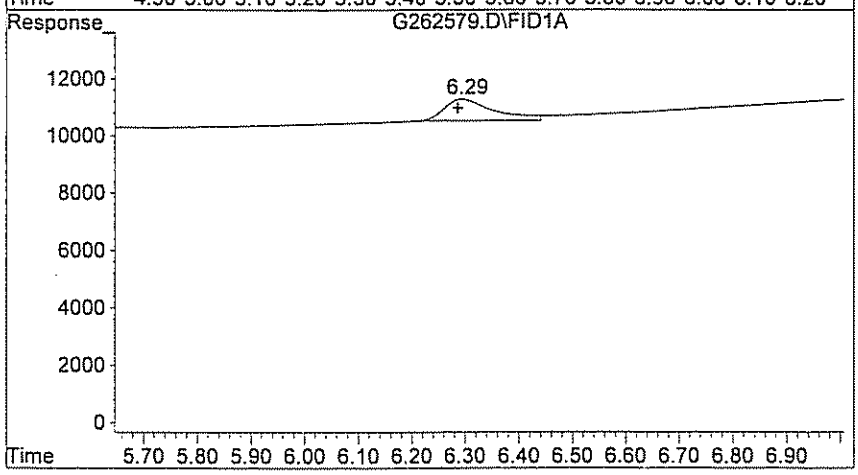
#1 Methane

R.T.: 0.620 min
Delta R.T.: -0.007 min
Response: 2423
Conc: 15.50 ppb



#2 Ethane

R.T.: 5.520 min
Delta R.T.: -0.003 min
Response: 701
Conc: 29.56 ppb



#3 Ethylene

R.T.: 6.293 min
Delta R.T.: 0.007 min
Response: 759
Conc: 25.53 ppb

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OUI-16GW01-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903062
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903062-006-032-1/2MSD
Sample Volume :	10	Lab File ID :	G262580.D
% Moisture:		Date Received	03/11/2009
Extraction:	SW5030B	Date Extracted:	03/20/2009
Extract Volume:	10 mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	29	
74-85-1	Ethene	25	
74-82-8	Methane	16	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262580.D Vial: 14
Acq On : 20 Mar 2009 15:24 Operator: TG
Sample : 903062-006MSD Inst : GC-G
Misc : OUI-16GW01-0309,CH2M,10ML,MSD Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 15:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.62	2540	16.247	ppb	m
2) T	Ethane	5.52	687	28.971	ppb	
3) T	Ethylene	6.30	753	25.328	ppb	

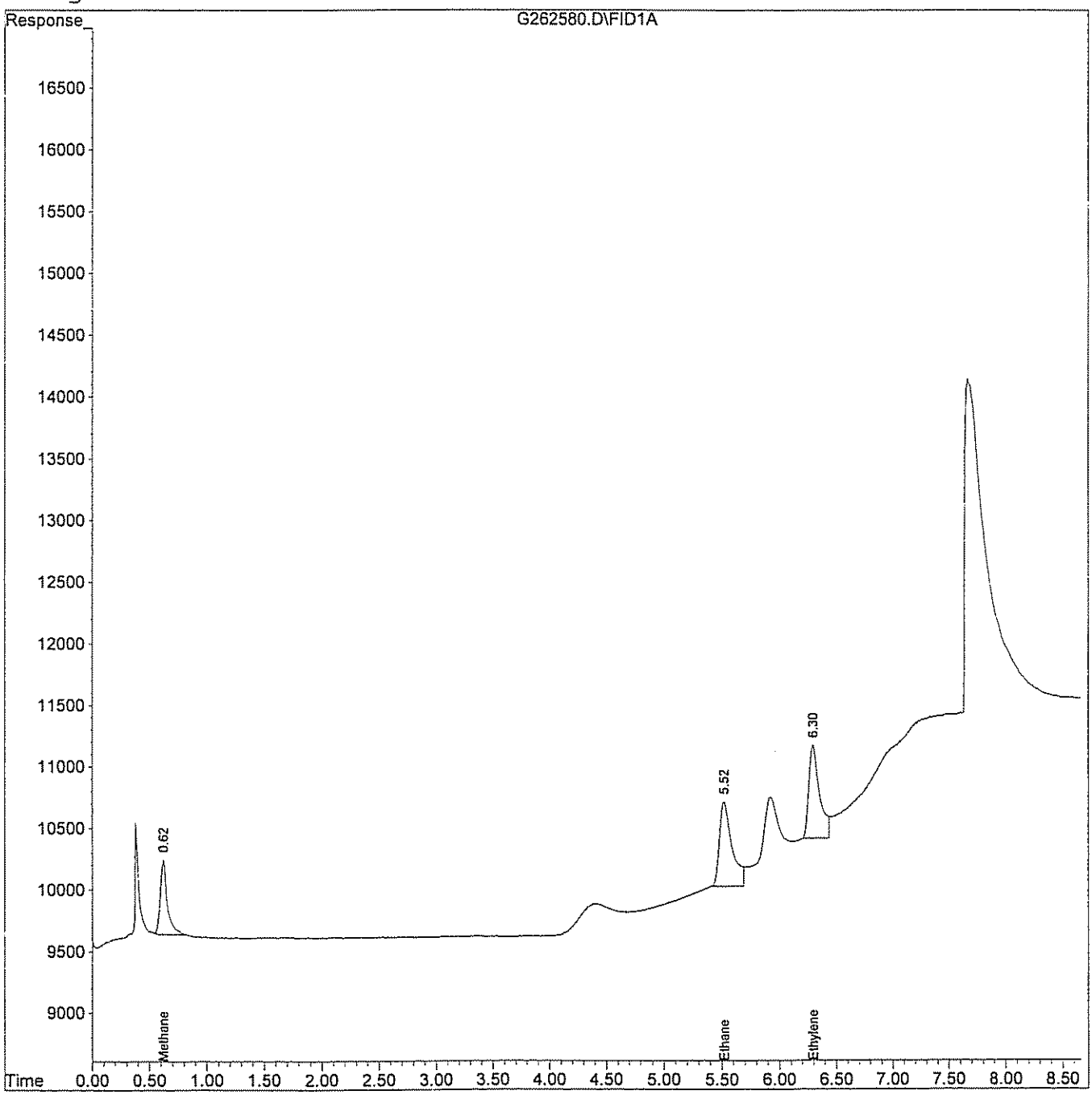
(f)=RT Delta > 1/2 Window (m)=manual
G262580.D RSK0320.M Mon Mar 23 11:38:38 2009 W28_IOANNIDE Page 1

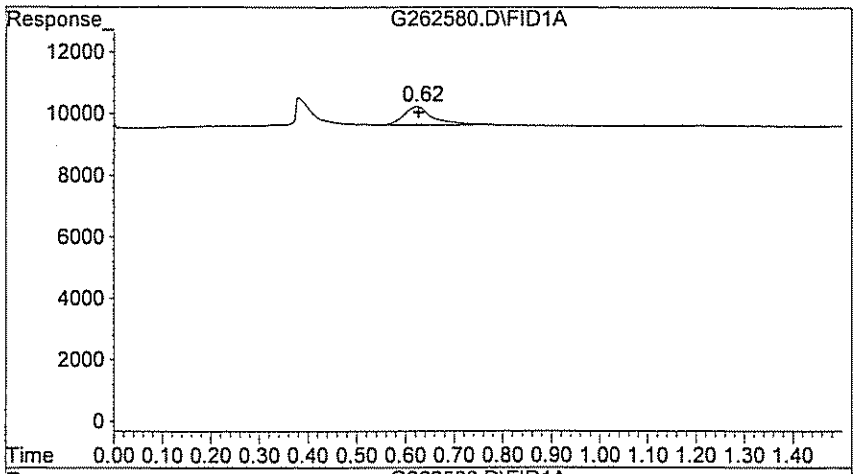
Quantitation Report

Data File : H:\GCDATA\G\032009\G262580.D Vial: 14
Acq On : 20 Mar 2009 15:24 Operator: TG
Sample : 903062-006MSD Inst : GC-G
Misc : OUI-16GW01-0309,CH2M,10ML,MSD Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 15:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

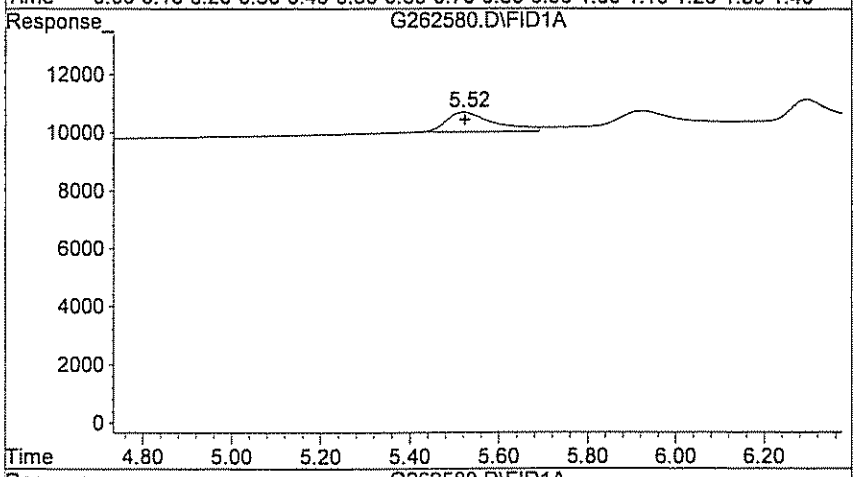
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





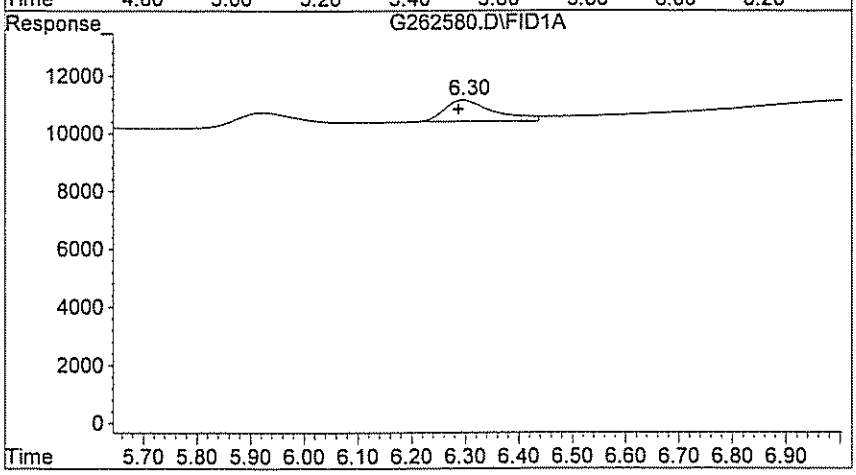
#1 Methane

R.T.: 0.623 min
Delta R.T.: -0.003 min
Response: 2540
Conc: 16.25 ppb m



#2 Ethane

R.T.: 5.520 min
Delta R.T.: -0.003 min
Response: 687
Conc: 28.97 ppb



#3 Ethylene

R.T.: 6.297 min
Delta R.T.: 0.010 min
Response: 753
Conc: 25.33 ppb

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: V DATE: 3/25/09

INSTRUMENT ID: **HP 5890 # G**
ANALYSIS/FRACTION: VOA
ANALYSTS: TG
ICAL DATE: 3/20/09

METHOD FILE: RSK0320
SEQUENCE FILE: 03/20/09

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262567	Cal 01	3/20/09	1X	water	10mL	N/A	RSK175	OK
	G 68	cal 02							OK
	G 69	Cal 04							OK
	G 70	Cal 05							OK
	G 71	cal 010							OK
	G 72	BLK							OK
	G 73	903062-001							OK
	G 74	-002							OK
	G 75	-003							OK
	G 76	-004							need dilution TG not used
	G 77	-005							need dilution TG not used
	G 78	-006							OK
	G 79	-006MS							OK
	G 80	-006MSD							OK
	G 81	CCV05							OK
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								

TG 3/23/09

REMARKS

Standards	Lot #	Conc.	Prep. Date	Volume
~~Methane~~	8282011	1000ppm	3/18/2009	2-5mL
Ethane	9076051	↓	3/17/2009	↓
~~Ethylene~~	8014011	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NV DATE: 3/25/09

INSTRUMENT ID: **HP 5890 # G** METHOD FILE: RSK 0320.m

ANALYSIS/FRACTION: VOA SEQUENCE FILE: 03124109

ANALYSTS: TC

ICAL DATE: 3/20/2009

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262617	CCV	3/24/09	STD	water	10ml	N/A	RSK175	OK
	G 18	BLK	↓	↓	↓	↓	↓	↓	OK
	G 19	903069-007MS		10X		1ml			OK
	G 20	-007MSD		10X		↓			OK need dilution ~~not used~~
	G 21	-008		1X		10ml			
	G 22	-009		1X		↓			↓
	G 23	-008DL		50X		200ul			OK
	G 24	↓ -009DL		50X		↓			OK
	G 25	903071-001		1X		10ml			~~NOT~~ OK
	G 26	903071-002		1X		↓			OK
	G 27	903071-001DL		500X		200ul			OK ~~needs dilutions NOT USED~~
	G 28	CCV		1X		10ml			
	G 29	CCV				↓			OK ~~needs dilutions NOT USED~~
	G 30	903071-003				10ml			
	G 31	-004		↓		↓			~~needs dilutions NOT USED~~
	G 32	-003DL		100X		100ul			OK
	G 33	-004DL		500X		200ul			OK ~~need dilutions NOT USED~~
	G 34	-005		1X		10ml			
	G 35	-005DL		20X		500ul			OK
	G 36	903093-001		1X		10ml			OK ~~needs dilution NOT USED~~
	G 37	903093-002							
	G 38	903093-003		↓		↓			OK
	G 39	CCV		1X		10ml			OK
	G 40	BLK		↓		↓			OK
	G 41	903093-002DL		100X		100ul			OK ~~dilution NOT USED~~
	G 42	903093-004	↓	1X	↓	10ml	↓	↓	

3/25/09 TC

TC

REMARKS

1/2

Standards	Lot #	Conc.	Prep. Date	Volume
methane	828201L	100PPM	3/18/2009	2.5ml
ethane	907805L	↓	3/17/2009	↓
ethylene	801401L	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NV DATE: 3/25/09

INSTRUMENT ID: HP 5890 # G
ANALYSIS/FRACTION: VOA
ANALYSTS: TC
ICAL DATE: 3/20/09

METHOD FILE: 1320-m
SEQUENCE FILE: 03124109

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G262643	903093-005	3/24/09	1X	water	10ml	N/A	RSK 175	need dilution ~~not used~~ TZ
	G 44	-005DL		10X		1ml			OK
	G 45	-005DL		50X		200ml			OK
	G 46	-006		1X		10ml			need dilution ~~not used~~ TZ
	G 47	-007		1X		↓			↓
	G 48	-006DL		1000X		10ml			OK
	G 49	-007DL		20X		50ml			OK
	G 50	-008		1X	↓	10ml			OK
	G 51	CCV			STD	10ml			need dilution ~~not used~~ TZ
	G 52	CCV							↓
	G ↓ 53	CCV	↓		↓	↓	↓	↓	OK
	G								
	G								
	G								
	G								
	G								
	G								
	G		TZ 3/25/09						
	G								
	G								
	G								
	G								
	G								
	G								
	G								

3/25/09

REMARKS

2/2

Standards	Lot #	Conc.	Prep. Date	Volume
methane	828201L	1000ppm	3/18/2009	25ml
ethane	907605L	↓	3/17/2009	↓
ethylene	801401L	↓	7/16/2009	↓

GENERAL CHEMISTRY

GPL Laboratories

A. QC Summary

1. **Matrix Spike/ Matrix Spike Duplicate Summary**

2. **Laboratory Control Standard Summary**
   (where applicable)

GPL Laboratories, LLLP

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLP Client: CH2M Hill

GPL Work-Order: 903093

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	shared w/903071	BQL	BQL	N/C	15%

%RPD - 0 out of 1 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-16GW29-0309	3.4	6.42	3.00	100.7	85 - 115%

% Recovery - 0 out of 1 outside control limits

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW38-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-001-063-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.1	
7440-44-0	Total Organic Carbon, Replicate 2	5.4	
7440-44-0	Total Organic Carbon, Replicate 3	5.4	
7440-44-0	Total Organic Carbon, Replicate 4	5.4	
7440-44-0	Total Organic Carbon, Average	5.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW39-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-002-064-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.8	
7440-44-0	Total Organic Carbon, Replicate 2	6.6	
7440-44-0	Total Organic Carbon, Replicate 3	6.9	
7440-44-0	Total Organic Carbon, Replicate 4	6.8	
7440-44-0	Total Organic Carbon, Average	6.8	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW32-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-003-065-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/12/2009
% Moisture:	ID.	Date Analyzed:	3/24/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	9.4	
7440-44-0	Total Organic Carbon, Replicate 2	8.6	
7440-44-0	Total Organic Carbon, Replicate 3	8.5	
7440-44-0	Total Organic Carbon, Replicate 4	8.5	
7440-44-0	Total Organic Carbon, Average	8.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW06-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-004-066-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.2	
7440-44-0	Total Organic Carbon, Replicate 2	2.1	
7440-44-0	Total Organic Carbon, Replicate 3	2.1	
7440-44-0	Total Organic Carbon, Replicate 4	2.1	
7440-44-0	Total Organic Carbon, Average	2.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-005-067-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.4	
7440-44-0	Total Organic Carbon, Replicate 2	3.4	
7440-44-0	Total Organic Carbon, Replicate 3	3.4	
7440-44-0	Total Organic Carbon, Replicate 4	3.4	
7440-44-0	Total Organic Carbon, Average	3.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-005-067-1/1MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.4	
7440-44-0	Total Organic Carbon, Replicate 2	6.4	
7440-44-0	Total Organic Carbon, Average	6.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW28-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-006-068-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	14.8	
7440-44-0	Total Organic Carbon, Replicate 2	14.3	
7440-44-0	Total Organic Carbon, Replicate 3	14.2	
7440-44-0	Total Organic Carbon, Replicate 4	14.1	
7440-44-0	Total Organic Carbon, Average	14.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW34-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-007-068-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.6	
7440-44-0	Total Organic Carbon, Replicate 2	2.6	
7440-44-0	Total Organic Carbon, Replicate 3	2.5	
7440-44-0	Total Organic Carbon, Replicate 4	2.5	
7440-44-0	Total Organic Carbon, Average	2.6	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW35-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903093
Case No.:		SDG NO.:	903093
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903093-008-080-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/14/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.9	
7440-44-0	Total Organic Carbon, Replicate 2	5.8	
7440-44-0	Total Organic Carbon, Replicate 3	5.8	
7440-44-0	Total Organic Carbon, Replicate 4	5.8	
7440-44-0	Total Organic Carbon, Average	5.8	

GPL LABORATORIES, LLLP

WET CHEM CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903093

PARAMETER: 9060A / 376.1

	CRITERIA MET YES	NO	NA
HOLDING TIMES	✓		
METHOD BLANK	✓		
CALIBRATION CURVE	✓		
IF NO,			
INITIAL CALIBRATION	✓		
IF NO,			
CONTINUING CALIBRATION	✓		
IF NO,			
MATRIX SPIKE RECOVERIES	✓		
COMMENTS			
DUP RECOVERIES	✓		
LCS RECOVERIES			✓
CALCULATION CHECK	✓		
ADDITIONAL COMMENTS			

SIGNATURE _____ DATE 3-27-09

REVIEWED BY _____ DATE 3/27/09

B. Sample Data

GPL Laboratories, LLLP

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1																	
2																	
3																	
4	Sulfide	AN	303071-001-02	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
5	Sulfide	AN	303071-001-02	MD / S	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
6	Sulfide	AN	303071-002-02	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
7	Sulfide	AN	303071-003-02	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
8	Sulfide	AN	303071-004-02	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
9	Sulfide	AN	303071-005-02	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
10	Sulfide	AN	303093-001-03	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
11	Sulfide	AN	303093-002-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
12	Sulfide	AN	303093-003-04	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
13	Sulfide	AN	303093-004-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
14	Sulfide	AN	303093-005-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
15	Sulfide	AN	303093-006-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
16	Sulfide	AN	303093-007-04	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
17	Sulfide	AN	303093-008-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
18	Sulfide	AN	303098-001-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
19	Sulfide	AN	303098-002-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
20	Sulfide	AN	303098-002-08	MD / S	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
21	Sulfide	AN	303098-003-07	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
22	Sulfide	AN	303098-004-07	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
23	Sulfide	AN	303098-005-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
24	Sulfide	AN	303098-006-07	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
25	Sulfide	AN	303098-007-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
26	Sulfide	AN	303098-008-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
27	Sulfide	AN	303098-009-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
28	Sulfide	AN	303098-010-08	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
29	Sulfide	AN	303098-011-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
30	Sulfide	AN	303098-012-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
31	Sulfide	AN	303098-012-08	MD / S	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000

Method Title: Sulfide (~~Titrimetric~~)
Method Reference: ~~MCAWW 376.1~~ / 9031
Normality of Iodine (~~Avg. N~~): 0.027
Detection Limit: 2.0 mg/L

Analyst: CP.
Date / Time: 3.18.09 / 9:15am
Reviewed by/Date: [illegible] 3-19-09

ANALYSIS RAW DATA #124013

Work Order	Frac.	Client ID	Sample Vol. (ml)	Iodine (ml)	Sodium Thiosulfate (ml)	Sulfide mg/L
ICV		#4435	20mls	5	5.20	4.0
ICB		Blank	20mls	5	5.40	<2.0
903071	001		20mls	5	5.35	1.0 <2.0
Dup	001		20mls	5	5.35	1.0 <2.0
	002		20mls	5	5.40	<2.0
	003		20mls	5	5.40	<2.0
	004		20mls	5	5.40	<2.0
↓	005		20mls	5	5.35	1.0 <2.0
903093	001		20mls	5	5.45	<2.0
↓	002		20mls	5	5.40	<2.0
	003		20mls	5	5.35	1.0 <2.0
↓	004		20mls	5	5.40	<2.0
CCV1		#4435	20mls	5	5.18	4.4
CCB1		Blank	20mls	5	5.40	<2.0
903093	005		20mls	5	5.40	<2.0
↓	006		20mls	5	5.40	<2.0
	007		20mls	5	5.35	1.0 <2.0
↓	008		20mls	5	5.40	<2.0
903098	001		20mls	5	5.40	<2.0
↓	002		20mls	5	5.40	<2.0
Dup	002		20mls	5	5.40	<2.0
↓	003		20mls	5	5.35	1.0 <2.0
	004		20mls	5	5.35	1.0 <2.0

CALCULATION:

1. mg/L Sulfide = $\frac{[(AXB) - (CXD)] \times 16000}{mL\ Sample}$ 0.135

where:

A = ml Iodine ; B = Normality of iodine;
C = ml $Na_2S_2O_3$ titrant; D = Normality of $Na_2S_2O_3$

Continued →

* H2O Final Results = Dilution Factor X Concentration

Soil Final Results = $\frac{\text{Dilution Factor x Concentration x extract volume}}{\text{wt. of sample x \% solids}}$

Method Title: Sulfide (Titrimetric)
Method Reference: MCAWW 376.1 / 9031
Normality of Iodine (Avg. N): 0.027
Detection Limit: 2.0 mg/L

Analyst: CP.
Date / Time: 3.18.09 / 9.15 am.
Reviewed by/Date: 3-18-09

Cont.

ANALYSIS RAW DATA

Work Order	Frac.	Client ID	Sample Vol. (ml)	Iodine (ml)	Sodium Thiosulfate (ml)	Sulfide mg/L
903098	005		20ml s	5	5.40	<2.0
CW2		# 44135	20ml s	5	5.20	4.0
CBS2		Blank	20ml s	5	5.40	<2.0
903098	006		20ml s	5	5.35	1.0 <2.0
	007		20ml s	5	5.40	<2.0
	008		20ml s	5	5.45	<2.0
	009		20ml s	5	5.40	<2.0
	010		20ml s	5	5.35	1.0 <2.0
	011		20ml s	5	5.40	<2.0
	012		20ml s	5	5.40	<2.0
↓ Dup	012		20ml s	5	5.40	<2.0
CCV3		#44135	20ml s	5	5.20	4.0
CBS3		Blank	20ml s	5	5.40	<2.0

CALCULATION: 0.135

1. mg/L Sulfide = $\frac{[(AXB) - (CXD)] \times 16000}{mL\ Sample}$

where:
A = ml Iodine ; B = Normality of iodine;
C = ml $Na_2S_2O_3$ titrant; D = Normality of $Na_2S_2O_3$

* H2O Final Results = Dilution Factor X Concentration

Soil Final Results = $\frac{\text{Dilution Factor x Concentration x extract volume}}{\text{wt. of sample x \% solids}}$

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1								☐									
2								☐									
3								☐									
4	Total Organic Carbon	AN	903093-001-06	SMP /	SW9060	5.43	1.0000	☑	5.4282	1.00000000	MGL	MGL	5.4300	0	0.0000	0.00	5.4282
5	Total Organic Carbon	AN	903093-002-06	SMP /	SW9060	6.76	1.0000	☑	6.7646	1.00000000	MGL	MGL	6.7600	0	0.0000	0.00	6.7646
6	Total Organic Carbon	AN	903093-003-06	SMP /	SW9060	8.73	1.0000	☑	8.7294	1.00000000	MGL	MGL	8.7300	0	0.0000	0.00	8.7294
7	Total Organic Carbon	AN	903093-004-06	SMP /	SW9060	2.11	1.0000	☑	2.1107	1.00000000	MGL	MGL	2.1100	0	0.0000	0.00	2.1107
8	Total Organic Carbon	AN	903093-005-06	SMP /	SW9060	3.40	1.0000	☑	3.4042	1.00000000	MGL	MGL	3.4000	0	0.0000	0.00	3.4042
9	Total Organic Carbon	AN	903093-005-06	MS / S	SW9060	6.42	1.0000	☑	6.4248	1.00000000	MGL	MGL	6.4200	0	3.0000	101.00	6.4248
10	Total Organic Carbon	AN	903093-006-06	SMP /	SW9060	14.4	1.0000	☑	14.3628	1.00000000	MGL	MGL	14.4000	0	0.0000	0.00	14.3628
11	Total Organic Carbon	AN	903093-007-06	SMP /	SW9060	2.58	1.0000	☑	2.5835	1.00000000	MGL	MGL	2.5800	0	0.0000	0.00	2.5835
12	Total Organic Carbon	AN	903093-008-07	SMP /	SW9060	5.81	1.0000	☑	5.8126	1.00000000	MGL	MGL	5.8100	0	0.0000	0.00	5.8126
13	Total Organic Carbon	AN	903098-001-13	SMP /	SW9060	2.20	1.0000	☑	2.1966	1.00000000	MGL	MGL	2.2000	0	0.0000	0.00	2.1966

Method Title: Total Organic Carbon #21374
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / 9060 #24377

Analyst: IZ
Date: 3-26-09
Reviewed by / Date: CA 3-27-09

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
#43278	ICV	20ml	3	11.0325	11.03	33.1
Blank	ICB		1	0.2374	0.24	<1.0
403076-001	TOC RAW		1	3.0578	3.06	3.06
001 MD	↓		1	2.4333	2.43	2.43
-001 MS	+2.5 mg/L		1	6.5283	6.53	not used only 17% of sample left - poor recovery
-001	TOC EFF		1	2.1841	2.18	2.18
-001 MS	↓ +2.0 mg/L		1	4.2943	4.29	4.29
403093-001	OU1-MW38-0309		1	5.5144		
↓	↓		↓	5.4360	5.4252	5.43
324731			↓	5.3660		
#43278	CCV1		3	10.9678	10.97	32.9
Blank	CCB1		1	0.3075	0.31	<1.0
403093-002	OU1-MW34-0309		1	6.7530		
↓	↓		↓	6.6450	6.7646	6.76
↓	↓		↓	6.8589		
↓	↓		↓	6.8013		
-003	OU1-166W32-0309		1	9.3839		
↓	↓		↓	8.5345		
↓	↓		↓	8.4944	8.7294	8.73
↓	↓		↓	8.4553		
-004	OU1-166W06-0309		1	2.2015		
↓	↓		↓	2.0541		
↓	↓		↓	2.0958	2.1107	2.11
↓	↓		↓	2.0565		
#43278	CCV2	↓	3	11.0143	11.4	33.0
Blank	CCB2	20ml	1	0.2525	0.25	<1.0

Continued →

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml)}}{\text{Sample weight (g) x \% solids}}$

(If not detected, report < 1.0 mg/L)

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / ~~SM5310C~~
Lloyd Kahn / 9060

Analyst: 1/2
Date: 3-26-09
Reviewed by / Date: 3.27.09

Cont.

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results (mg/L) mg/Kg
403093-005	041-166W28-0309	20 mL	1	3.3532		
				3.4141	3.4042	3.40
				3.4028		
				3.4446		
403093-005 MS	041-166W28-0309 +3.0 mg/L		1	6.4362	6.4248	6.42
			1	6.4134		
-006	041-166W29-0309		1	14.8231		
				14.3101	14.3628	14.4
				14.2109		
				14.1070		
#43248	CL13		3	10.6676	10.7	32.0
Blank	CCB3		1	0.2504	0.25	<1.0
403093-007	041-166W34-0309		1	2.6475		
				2.5747	2.5835	2.58
				2.5701		
				2.5417		
-008	041-166W35-0309		1	5.8510		
				5.5157	5.8116	5.81
				5.7754		
				5.8077		
403095-001	041-526W46-0309		1	2.2670		
				2.1668	2.1966	2.20
				2.1705		
				2.1820		
#43275	CCV4	↓	3	10.2008	10.2	30.6
Blank	CCB4	20 mL	1	0.2360	0.24	<1.0

3-26-09

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml)}}{\text{Sample weight (g) x \% solids}}$

(If not detected, report < 1.0 mg/L)

C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLLP

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903093 STD Solution ID: #43278

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	31.9	33.1	104	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	32.9	103	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	33.0	103	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	32.0	100	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	30.6	96	90 - 110%

Method Title: Total Organic Carbon Analyst: V-Zuniga

Method Reference: MCAWW 415.1 / SM5310C/MCAWW415.2 Date: 3-26-09 08:30

Lloyd Kahn / 9060 Reviewed by / Date: CM 3.27.09

Instrument/Apparatus: Pheonix 8000 - #G

Calibration:

A. 1000ppm Stock Standard Solution ID: #4176

B. 2000ppm Working Standard Solution

C. 10ppm Working Standard Solution

Calibration Curve: Calibrated 2-25-09

Std. Conc. mg/L	ml Stock Solution	F.V. ml	Instrument Reading
0		100	4942
1.0		100	1,96265
2.5		100	1601749
5.0		100	3175560
10		100	6124574
15		100	9349585
20		100	12272438
		100	

Corr. Coeff: (≥ 0.9950) 0.99987

y-Intercept: 89835

Slope: 1.528x10^5

System Blank: 57665

QC Analysis

QC ID: #43278

T.V.: 31.9 mg/L

Acceptance Range: 90-110%

Found Value:

ICV 33.1 mg/L CCV1 32.9 mg/L CCV2 33.0 mg/L

% Recovery:

ICV 104 % CCV1 103 % CCV2 103 %

Matrix Spike Analysis:

Spike Acceptance Range: 15%

Sample ID #1 903174-002 Sample ID #2 903093-005

Sample Value #1 2.18 mg/L Sample Value #2: 3.40 mg/L

Spike Sample Value #1 4.29 mg/L #2: 6.42 mg/L

Spike Amount: 2.0 mg/L 3.0 mg/L

% Recovery #1 106% #2: 101%

Duplicate Analysis

Dup Acceptance Range: 15%

Sample ID #1 / #2 903174-001 /

Init. Samp. Value #1 / #2 3.06 mg/L /

Dup. Samp. Value #1 / #2 2.93 mg/L /

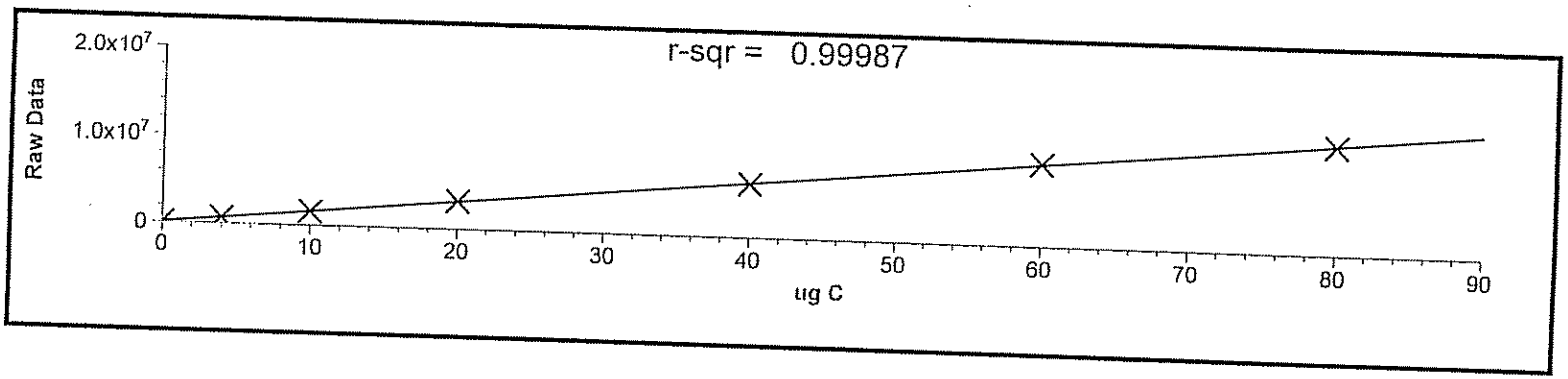
RPD #1 / #2 4.3% /

Comments:

Calibration Report Print Date/Time: 2009/03/24 0:48:09

Cal. Curve ID:	WATER LOW
Created:	02/25/2009 14:35
Calibration Factor (m):	1.528e+05
Y Intercept (b):	89838
r-squared:	0.99987

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
Blank	99421	0.000	0.063		02/25/2009 13:25
1ppm	696265	4.000	3.970		02/25/2009 13:32
2.5ppm	1601749	10.000	9.897		02/25/2009 13:39
5ppm	3175560	20.000	20.200		02/25/2009 13:46
10ppm	6124574	40.000	39.505		02/25/2009 13:54
20ppm	12272438	80.000	79.750		02/25/2009 14:16
15ppm	9349585	60.000	60.616		02/25/2009 14:34



General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC | Client: CH2M Hill

Work-Order # 903093 | STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.40	110	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	4.00	4.00	100	70 - 130%

Method Title: Sulfide, Titrimetric, Sodium Thiosulfate
Method Reference: MCAWW 376.1 / 9031

Analyst: CP
Date / Time: 3.18.09 / 9.15 am
Reviewed by/Date: 3-18-09

Instrument/Apparatus: Titration

Calibration:
Standardization Iodine Solution

Iodine Solution N = ml of $Na_2S_2O_3$ X 0.025N / 5 ml of Iodine

	ID#	Vol. Used / ml	Normality
Sodium Thiosulfate	# 45177	5.40	0.025 N
Sodium Thiosulfate	# 45177	5.40	0.025 N
Iodine solution	# 44753	5	N 1= 0.027
Iodine solution	# 44753	5	N 2= 0.027
			Avg N = 0.027

QC Analysis
ICV Analysis

ICV ID: # 44135 (1000 mg/L)
T.V.: 4.0 mg/L
Acceptance Range: 70 - 130%
ICV 4.0 mg/L CCV1 4.4 mg/L CCV2 4.0 mg/L
% Rec: ICV 100% CCV1 110% CCV2 100%

Duplicate Analysis Acceptance Range: 15%

Sample ID #1: 403071-001
Init. Sample Value #1: 2.0 mg/L
Dup. Sample Value #1: 2.0 mg/L
RPD #1: 0

Sample ID #2: 403098-002
Init. Sample Value #2: 2.0 mg/L
Dup. Sample Value #2: 2.0 mg/L
RPD #2: 0

LCS Analysis

LCS ID: N/A
T.V.:
F.V. #1:
% R #1:

LCS ID:
T.V.:
F.V. #2:
% R #2:

Reagent:
Starch Indicator ID: # 44045
HCL ID: # 45241

Comments:

D. Raw QC Data
(as applicable)

1. Blank Data

2. Matrix Spike/Duplicate Data

3. Laboratory Control Standard Data

5. Extraction Logsheet

6. Injection Logsheet

7. Percent Solids

GPL Laboratories, LLLP

Detailed Analysis Report Print Date/Time: 2009/03/26 4:52:36

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ
Mode: TOC
Filename: 03252136
Timestamp: 03/25/2009 21:43
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.0325	44.1298	6831113	11.125	12.120	146

Sample ID: ICB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ
Mode: TOC
Filename: 03252152
Timestamp: 03/25/2009 21:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2374	0.9496	202733	11.083	12.080	55

Sample ID: 903176-001
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ
Mode: TOC
Filename: 03252215
Timestamp: 03/25/2009 22:21
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.0578	12.2314	1926134	11.075	12.073	105

Sample ID: 903176-001MD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ
Mode: TOC
Filename: 03252221
Timestamp: 03/25/2009 22:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.9333	11.7334	1850062	11.262	12.257	105

Sample ID: 903176-001MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03252230
Timestamp: 03/25/2009 22:37
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.5283	26.1131	4046709	11.377	12.377	157

Sample ID: 903176-002
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03252238
Timestamp: 03/25/2009 22:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1841	8.7364	1392243	11.557	12.554	93

Sample ID: 903176-002MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03252244
Timestamp: 03/25/2009 22:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2943	17.1772	2681656	11.501	12.498	103

Sample ID: 903093-001
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03252252
Timestamp: 03/25/2009 23:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.5144	22.0576	3427185	11.450	12.446	105
2	5.4360	21.7441	3379298	11.484	12.483	100
3	5.3960	21.5842	3354872	11.455	12.453	99
4	5.3664	21.4657	3336769	11.414	12.412	98

<<<Statistics>>> Mean: 5.4282 Std Dev: 0.0642 RSD: 1.18

Sample ID: 43278 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03252317
Cal. Curve: WATER LOW Timestamp: 03/25/2009 23:23
Operator ID: VZ Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.9678	43.8713	6791621	11.463	12.461	123

Sample ID: CCB1 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03252332
Cal. Curve: WATER LOW Timestamp: 03/25/2009 23:38
Operator ID: VZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3075	1.2299	245551	11.326	12.323	55

Sample ID: 903093-002 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03252340
Cal. Curve: WATER LOW Timestamp: 03/26/2009 00:09
Operator ID: VZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.7530	27.0119	4184002	11.337	12.336	179
2	6.6450	26.5799	4118020	11.509	12.507	161
3	6.8589	27.4357	4248756	11.558	12.557	175
4	6.8013	27.2051	4213523	11.701	12.700	167

<<<Statistics>>> Mean: 6.7646 Std Dev: 0.0907 RSD: 1.34

Sample ID: 903093-003 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03260010
Cal. Curve: WATER LOW Timestamp: 03/26/2009 00:38
Operator ID: VZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1	9.3839	37.5355	5791594	11.678	12.676	216
2	8.5845	34.3380	5303148	11.755	12.751	147
3	8.4941	33.9762	5247879	11.706	12.705	133
4	8.4553	33.8213	5224219	11.609	12.608	129

<<<Statistics>>> Mean: 8.7294 Std Dev: 0.4396 RSD: 5.04

Sample ID: 903093-004
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ
Mode: TOC
Filename: 03260041
Timestamp: 03/26/2009 01:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.2015	8.8059	1402854	11.525	12.523	86
2	2.0891	8.3563	1334184	11.500	12.498	82
3	2.0958	8.3831	1338273	11.502	12.500	82
4	2.0565	8.2258	1314247	11.527	12.527	80

<<<Statistics>>> Mean: 2.1107 Std Dev: 0.0629 RSD: 2.98

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ
Mode: TOC
Filename: 03260107
Timestamp: 03/26/2009 01:14
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.0143	44.0572	6820022	11.503	12.502	134

Sample ID: CCB2
Mode: TOC
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ
Filename: 03260122
Timestamp: 03/26/2009 01:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2525	1.0100	211958	11.451	12.445	53

Sample ID: 903093-005 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03260130
Cal. Curve: WATER LOW Timestamp: 03/26/2009 01:54
Operator ID: VZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.3532	13.4129	2106624	11.511	12.508	94
2	3.4191	13.6764	2146877	11.544	12.541	93
3	3.4028	13.6111	2136905	11.534	12.533	90
4	3.4416	13.7663	2160615	11.545	12.545	94

<<<Statistics>>> Mean: 3.4042 Std Dev: 0.0375 RSD: 1.10

Sample ID: 903093-005MS Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03260156
Cal. Curve: WATER LOW Timestamp: 03/26/2009 02:08
Operator ID: VZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.4362	25.7446	3990417	11.545	12.545	115
2	6.4134	25.6535	3976496	11.594	12.591	104

<<<Statistics>>> Mean: 6.4248 Std Dev: 0.0161 RSD: 0.25

Sample ID: 903093-006 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03260213
Cal. Curve: WATER LOW Timestamp: 03/26/2009 02:44
Operator ID: VZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.8231	59.2923	9115166	11.541	12.539	272
2	14.3101	57.2406	8801747	11.827	12.826	169
3	14.2109	56.8437	8741125	11.865	12.864	154
4	14.1070	56.4280	8677615	11.837	12.837	168

<<<Statistics>>> Mean: 14.3628 Std Dev: 0.3179 RSD: 2.21

Sample ID: 43278 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03260247
Cal. Curve: WATER LOW Timestamp: 03/26/2009 02:54
Operator ID: VZ Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.6678	42.6712	6608288	11.759	12.756	169

Sample ID: CCB3 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03260256
Cal. Curve: WATER LOW Timestamp: 03/26/2009 03:01
Operator ID: VZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2504	1.0016	210672	11.753	12.746	54

Sample ID: 903093-007 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03260304
Cal. Curve: WATER LOW Timestamp: 03/26/2009 03:33
Operator ID: VZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.6475	10.5898	1675369	11.734	12.733	160
2	2.5747	10.2989	1630928	11.616	12.615	165
3	2.5701	10.2805	1628113	11.592	12.589	164
4	2.5417	10.1667	1610735	11.580	12.579	163

<<<Statistics>>> Mean: 2.5835 Std Dev: 0.0451 RSD: 1.75

Sample ID: 903093-008 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03260335
Cal. Curve: WATER LOW Timestamp: 03/26/2009 04:00
Operator ID: VZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.8510	23.4038	3632841	11.548	12.548	112
2	5.8157	23.2626	3611267	11.568	12.566	112

3	5.7759	23.1038	3587001	11.599	12.598	110
4	5.8077	23.2308	3606415	11.620	12.620	99

<<<Statistics>>> Mean: 5.8126 Std Dev: 0.0308 RSD: 0.53

Sample ID: 903098-001
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ
Mode: TOC
Filename: 03260404
Timestamp: 03/26/2009 04:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.2670	9.0679	1442884	11.657	12.654	78
2	2.1668	8.6673	1381680	11.741	12.736	77
3	2.1705	8.6819	1383922	11.810	12.809	77
4	2.1820	8.7281	1390967	11.853	12.848	75

<<<Statistics>>> Mean: 2.1966 Std Dev: 0.0474 RSD: 2.16

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ
Mode: TOC
Filename: 03260428
Timestamp: 03/26/2009 04:33
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2008	40.8033	6322949	11.814	12.810	100

Sample ID: CCB4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ
Mode: TOC
Filename: 03260441
Timestamp: 03/26/2009 04:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2360	0.9439	201861	11.487	12.485	52

GPL Laboratories

Work Order Approval

Work Order #: 903093
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-14-2009
Fax Due Date: Mar-30-2009
HC Due Date: Mar-30-2009
EDD Due Date Mar-30-2009

APPROVED

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

Contact: Emma Brower
Phone: 7033765082
Fax: 7033765582
E-Mail:

Comments: Level 4 Data Package
SNEDD EDD
ALL METHODS MUST MEET QSM VERSION 3 GUIDELINES.
For TOC Analysis CH2M Hill requests quadruplicate results on form 1's, and average result in EDD.

Lab ID : 903093-001 Field ID : OU1-MW38-0309 Date Collected : 13-MAR-09

Method Name	*Mtx*	*#Cont*	*Storage Loc*	*Presev Class*	*TAT*	*Comments*
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903093-002 Field ID : OU1-MW39-0309 Date Collected : 13-MAR-09

Method Name	*Mtx*	*#Cont*	*Storage Loc*	*Presev Class*	*TAT*	*Comments*
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903093-003 Field ID : OU1-16GW32-0309 Date Collected : 13-MAR-09

Method Name	*Mtx*	*#Cont*	*Storage Loc*	*Presev Class*	*TAT*	*Comments*
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

GPL Laboratories

Work Order Approval

Work Order #: 903093
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-14-2009
Fax Due Date: Mar-30-2009
HC Due Date: Mar-30-2009
EDD Due Date Mar-30-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903093-004 Field ID : OU1-16GW06-0309 Date Collected : 13-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903093-005 Field ID : OU1-16GW28-0309 Date Collected : 13-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903093-006 Field ID : OU1-16GW29-0309 Date Collected : 13-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903093-007 Field ID : OU1-16GW34-0309 Date Collected : 13-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

GPL Laboratories

Work Order Approval

Work Order #: 903093
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-14-2009
Fax Due Date: Mar-30-2009
HC Due Date: Mar-30-2009
EDD Due Date Mar-30-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903093-008 Field ID : OU1-16GW35-0309 Date Collected : 13-MAR-09

Method Name	*Mtx*	*#Cont*	*Storage Loc*	*Presev Class*	*TAT*	*Comments*
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903093-009 Field ID : OU1-TB06-0309 Date Collected : 13-MAR-09

Method Name	*Mtx*	*#Cont*	*Storage Loc*	*Presev Class*	*TAT*	*Comments*
VOC by Method SW-846 using 25 ML Purge	W	3	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-4	HC	21D	

Lab ID : 903093-010 Field ID : OU1-TB07-0309 Date Collected : 13-MAR-09

Method Name	*Mtx*	*#Cont*	*Storage Loc*	*Presev Class*	*TAT*	*Comments*
VOC by Method SW-846 using 25 ML Purge	W	3	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-4	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Contract #/Billing Reference: Nitrate and Nitrite are 48 hours; Sulfate is 28 days

1 of 1 Pgs.

Project: Groundwater Sampling Event at OU1 MCAS Cherry Point
Client: CH2M Hill
Send Results To: Bill Hannah
Address: 5700 Cleveland St. Suite 101
Virginia Beach, Va 23462
Phone: 757-671-6277

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	SW 8260 (VOC) 8260B	EPA 300.0 (Nitrate, Nitrite and Chloride)	EPA 375.4 (Sulfide)	RSK-175 (Methane, Ethane and Ethene)	SW 9060 (Total Organic Carbon)						CLIENT COMMENTS
Turnaround Time					14 days	See Above	14 days	14 days	28 days						Lab Cooler No.
# of Containers					3	~~See Above~~ 1	See Above 1	2	1						
Container Type					VOA	8oz plastic	8oz plastic	VOA	8oz Glass						
Preservative Used					HCL	None	NaOH	HCL	H2SO4						
OU1-MW38-0309	3/13/09	16:20	Water	PVT	3	1	1	2	1						
OU1-MW39-0309	3/13/09	16:00	Water	PVT	3	1	1	2	1						
OU1-16GW32-0309	3/13/09	15:30	Water	DM	3	1	1	2	1						
OU1-16GW30-0309	3/13/09	10:00	Water	PVT	3	1	1	2	1						
OU1-16GW28-0309	3/13/09	13:53	Water	KB	3	1	1	2	1						
OU1-16GW29-0309	3/13/09	12:50	Water	KB	3	1	1	2	1						
OU1-16GW34-0309	3/13/09	16:08	Water	KB	3	1	1	2	1						
OU1-16GW35-0309	3/13/09	15:27	Water	KB	3	1	1	2	1						High turbidity. Requires TAT to 7 days
OU1-TB01-0309	3/13/09	—	Water	DM	3										
OU1-TB07-0309	3/13/09	—	Water	DM	3										

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Dana R. Miller	3/13/09 17:18			Pat Mynder	3/14/09 11:00
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
Relinquished By:	Date/Time	Received By:	Lab Comments:		Temp:
					4°

G.P. W.O. 903093

FedEx Express US Airbill

8689 0120 8679

0200

FedEx Retrieval Co

1 From

Date 4/11/20

Sender's FedEx Account Number

Sender's Name [illegible] Phone 301 723-[illegible]

Company [illegible]

Address [illegible] Dept./Floor/Suite/Room

City [illegible] State MD ZIP [illegible]

2 Your Internal Billing Reference

3 To

Recipient's Name [illegible] Phone 301 694-5310

Company GPL Laboratories

Recipient's Address [illegible] Dept./Floor/Suite/Room

Address

To request package be held at a FedEx location, print FedEx address here

City Frederick State MD ZIP 21703

4a Express Package Service

Packages up to 150 lbs.

1 [X] FedEx Priority Overnight — Next business morning.* Saturday delivery NOT available.
5 [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
6 [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
3 [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday, unless SATURDAY Delivery is selected.
20 [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charges. One-pound rate.

4b Express Freight Service

Packages over 150 lbs.

7 [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday, unless SATURDAY Delivery is selected.
8 [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday, unless SATURDAY Delivery is selected.
83 [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation. ** To most locations.

5 Packaging

6 [ ] FedEx Envelope* 2 [ ] FedEx Pak* 3 [ ] FedEx Box 4 [ ] FedEx Tube 1 [ ] Other

* Declared value limit $500

6 Special Handling

Include FedEx address in Section 3.

3 [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
1 [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
31 [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

No 4 [ ] Yes — As per attached Shipper's Declaration
Yes — Shipper's Declaration not required
5 [ ] Dry Ice — Dry Ice, 9, UN1845
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.
Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

1 [ ] Sender — FedEx Acct. No. or Credit Card No. of Sender in Section 1
2 [ ] Recipient
3 [X] Third Party
4 [ ] Credit Card
5 [ ] Cash/Check

Obtain Recipient Acct. No.

Total Packages 1 Total Weight [illegible]

*Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

No Signature Required — Package may be left without obtaining a signature for delivery.
10 [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
34 [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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8689 0120 8679

1.800.GoFedEx 1.800.463.3339

FedEx Express US Airbill

8689 0120 8668

0200

FedEx Retrieval

1 From

Date [illegible]

Sender's FedEx Account Number

Sender's Name [illegible] Phone 301 723-[illegible]

Company [illegible]

Address [illegible] Dept./Floor/Suite/Room

City [illegible] State MD ZIP [illegible]

2 Your Internal Billing Reference

3 To

Recipient's Name [illegible] Phone 301 694-5310

Company GPL Laboratories

Recipient's Address [illegible] Dept./Floor/Suite/Room

Address

To request package be held at a FedEx location, print FedEx address here

City Frederick State MD ZIP 21703

4a Express Package Service

Packages up to

1 [X] FedEx Priority Overnight — Next business morning.* Saturday delivery NOT available.
5 [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
6 [ ] FedEx First Ov — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
3 [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday, unless SATURDAY Delivery is selected.
20 [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charges. One-pound rate.

4b Express Freight Service

Packages ove

7 [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday, unless SATURDAY Delivery is selected.
8 [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday, unless SATURDAY Delivery is selected.
83 [ ] FedEx 3Day Fr — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation. ** To m

5 Packaging

6 [ ] FedEx Envelope* 2 [ ] FedEx Pak* 3 [ ] FedEx Box 4 [ ] FedEx Tube 1 [ ]

* Declared va

6 Special Handling

Include FedEx address in Section 3.

3 [X] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
1 [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
31 [ ] HOLD Saturday at FedEx Locati — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

No 4 [ ] Yes — As per attached Shipper's Declaration
Yes — Shipper's Declaration not required
6 [ ] Dry Ice — Dry Ice, 9, UN1845
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.
Cargo Aircraft On

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

1 [ ] Sender — FedEx Acct. No. or Credit Card No. of Sender in Section 1
2 [ ] Recipient
3 [X] Third Party
4 [ ] Credit Card
5 [ ] Cash/Check

Obtain Recipient Acct. No.

Total Packages 1 Total Weight [illegible]

*Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

No Signature Required — Package may be left without obtaining a signature for delivery.
10 [ ] Direct Signature — Someone at recipient's address may sign for delivery.
34 [ ] Indirect Signature — If no one is available at recipient's address,

520

8689 0120 8668

fedex.com 1.800.GoFedEx 1.800.463.3339

GPL Laboratories, LLLP

Figure 3

Sample Preservation Check Documentation Form

Work Order: 903093

Parameter: / Preservative: / pH Value	Metals (*A) HNO3 <2	Phenol H2SO4 <2	TPH O&G H2SO4 <2	Classical Parameters H2SO4 <2	Cyanide NaOH >12	Sulfide NaOH >9	Radiology (*B) HNO3 <2	Other Preservatio Adjustment	Reagent Lot #	see checklist for comments
GPL ID										
OUI-MW38-0309				✓		✓		Y / N		
OUI-MW39-0309				✓		✓		Y / N		
OUI-166W32-0309				✓		✓		Y / N		
OUI-166W06-0309				✓		✓		Y / N		
OUI-166W28-0309				✓		✓		Y / N		
OUI-166W29-0309				✓		✓		Y / N		
OUI-166W34-0309				✓		✓		Y / N		
OUI-166W35-0309				✓		✓		Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
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								Y / N		
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								Y / N		
								Y / N		
								Y / N		

(*A). If drinking water metals sample is acidified in the laboratory,
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.

(*B). If Radiochemistry sample is acidified in the laboratory,
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.
Tritium analysis should NOT be preserved.

Sample Preservation Check Performed By: Pat

Date: 3-14-09

GPL Laboratories, LLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903093
Client Name: CH2M Hill
Date Received: 3-14-09
Time Received: 11:00
Received By: Pat

Carrier Name: Fed ex
Prepared (Logged In) By: PM / 3-14-09
Project:
Site:
VOA Holding Blank ID No:

	YES	NO
Airbill/Manifest Present? No: 8689 0120 8679	✓	
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?	✓	
Condition: Good ✓ Broken		
Chain of Custody Present?	✓	
Chain of Custody Agrees with Sample Labels?	✓	
Chain of Custody Signed?	✓	
Packing Present in Shipping Container?	✓	
Type of Packing bubble wrap		
Custody Seals on Sample Bottles?	✓	
Condition: Good ✓ Broken		
Total Number of Sample Bottles 10	✓	
Total Number of Samples 10	✓	
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks Received?	✓	
No. of Sets 2		
VOA Vials Have Zero Headspace?	✓	
Preservatives Added to Sample?	✓	
pH Check Required?	✓	
Performed By: PM		
Ice Present in Shipping Container?	✓	

Container #	Temperature
2	4°

Project Manager Contacted?
Name: Garth
Date Contacted: 3-16-09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: 001-16629-0309 time is 12:50 on the chain but time is 12:40 on the bottles

Checklist Completed By: Pat
Date: 3-14-09

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903093

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Ten water samples were received on 03/14/2009. The samples were delivered by Federal Express. Sample receipt conditions ar temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soi are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Ten water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
SampleOU1-16GW06-0309 was diluted to fit the results within the instrument calibration.
All surrogate recoveries and internal standard responses were within the QC limits.
A matrix spike and matrix spike duplicate were shared from work order 903192. The RPDs of three compounds, out of forty-eigl were outside of the RPD QC limits, and twenty-seven spike recoveries, out of ninety-six, were outside of the QC limits.
A laboratory control sample was analyzed along with the sample batches. BKS108853 had six spike recoveries outside of the QC limits. BKS108855 had two spike recoveries outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrate compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

Sm 3/27/09

IC Analysis

Eight water samples were analyzed for Chloride, Nitrate as Nitrogen, and Nitrite as Nitrogen by EPA method 300.0.

Matrix spike and duplicate analyses were performed on sample OU1-16GW35-0309. Due to matrix interference, percent recovei for Nitrite as Nitrogen was above the QC limits. Since the laboratory control sample recoveries for Nitrite as Nitrogen were withir the QC limits, no corrective action was taken. All other QC criteria were met.

A laboratory control sample was analyzed along with the batch. All QC criteria were met.

General Chemistry

Eight water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was shared with GPL workorder 903071. All QC criteria were met.

Eight water samples were analyzed for Total Organic Carbon using EPA method 9060A. No duplicate analysis was performed since samples were ran in quadruplicate. Matrix spike analysis was performed on sample OU1-16GW29-0309. All QC criteria were met.

Work Order: 903093 Method: 8260

Volatiles Package Review Checklist

Case Narrative

	Analyst	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.	✓	
2. All nonconformances and corrective action must be mentioned and explained.	✓	
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	
4. If reanalyses were performed, one analysis must be designated to report results.	✓	

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	
2. Double-check spike amounts for the LCS and MS/MSD.	✓	
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	
4. A form 5 for the initial calibration must be provided.	✓	

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	
$\frac{\text{Raw Conc. x (5/mass)}}{1 - (\%\text{moisture}/100)}$ *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	

Work Order: 903093 Method: 8260

3. Column name & ID are properly labeled.	✓	
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{\text{10mL of MeOH}}{\text{grams of soil}} \times \frac{\text{5mL Purge Volume}}{\text{mL of Extract Spiked}}$	✓	
5. All analyte recoveries over the calibration limit are flagged "E".	✓	
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	✓	
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	✓	

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	
2. All continuing calibrations used to analyze the samples are included.	✓	
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	✓	
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	
4. Injection Logbook copies must be provided for all analysis sequences.	✓	
5. If TCLP, a copy of the Extraction Log must be provided.	✓	
6. If Encore samples, a copy of the Sample Weight Log must be provided.	✓	

Analyst Signature: _____ Date: 3/27/09

Reviewer Signature: _____ Date: _____

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903093

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Ten water samples were received on 03/14/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

IC Analysis

Eight water samples were analyzed for Chloride, Nitrate as Nitrogen, and Nitrite as Nitrogen by EPA method 300.0.

Matrix spike and duplicate analyses were performed on sample OU1-16GW35-0309. Due to matrix interference, percent recovery for Nitrite as Nitrogen was above the QC limits. Since the laboratory control sample recoveries for Nitrite as Nitrogen were within the QC limits, no corrective action was taken. All other QC criteria were met.

A laboratory control sample was analyzed along with the batch. All QC criteria were met.

JCSA 3/27/09

General Chemistry

Eight water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was shared with GPL workorder 903071. All QC criteria were met.

Eight water samples were analyzed for Total Organic Carbon using EPA method 9060A. No duplicate analysis was performed since samples were ran in quadruplicate. Matrix spike analysis was performed on sample OU1-16GW29-0309. All QC criteria were met.

Other Analysis

Eight water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were shared with work order 903062. All of the RPDs were within the RPD QC limits, and all spike recoveries were within the QC limits.

GPL LABORATORIES, LLLP

IC CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903093

PARAMETER: E300

	CRITERIA MET YES	NO	NA
EXTRACTION HOLDING TIMES			✓
ANALYSIS HOLDING TIMES	✓		
CALIBRATION CURVE	✓		
IF NO,			
INITIAL CALIBRATION	✓		
IF NO,			
CONTINUING CALIBRATION	✓		
RETENTION TIME	✓		
METHOD BLANK	✓		
MS/MSD RECOVERIES		✓*	
IF NO	*See narrative		
DUP RECOVERIES	✓		
LCS RECOVERIES	✓		
CALCULATION CHECK	✓		

Is the peak integration in all initial and continuing calibrations as well as each chromatogram, conducted correctly, and in accordance with good laboratory practices and the GPL policies, SOPs and QA manual? ✓

IF" NO", the affected chromatograms must be immediately reviewed and re-integrated by the Lab Director and the QA manager,prior to their final release.

Has the manual integration been signed off on (initialled and dated)? ✓

WAS IMPORTATION INTO LIMS CORRECT? ✓ JCSM (Initials)

ADDITIONAL COMMENTS

SIGNATURE [signature] DATE 3/27/09

REVIEWED BY _____ DATE _____

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903093

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Ten water samples were received on 03/14/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

General Chemistry

Eight water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was shared with GPL workorder 903071. All QC criteria were met.

Eight water samples were analyzed for Total Organic Carbon using EPA method 9060A. No duplicate analysis was performed since samples were ran in quadruplicate. Matrix spike analysis was performed on sample OU1-16GW29-0309. All QC criteria were met.

JESN 3/27/09

Other Analysis

Eight water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were shared with work order 903062. All of the RPDs were within the RPD QC limits, and all spike recoveries were within the QC limits.

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903093

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Ten water samples were received on 03/14/2009. The samples were delivered by Federal Express. Sample receipt conditions ar temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soi are reported on a dry weight basis unless otherwise specified on the report.

Other Analysis

Eight water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were shared with work order 903062. All of the RPDs were within the RPD QC limits, and all spike recoveries were within the QC limits.

3/27/09

Work Order: 903092 Method: RSK

Volatiles Package Review Checklist

Case Narrative

	Analyst	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.	✓	✓
2. All nonconformances and corrective action must be mentioned and explained.	✓	✓
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	✓
4. If reanalyses were performed, one analysis must be designated to report results.	✓	✓

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	✓
2. Double-check spike amounts for the ~~LCS and~~ MS/MSD.	✓	✓
3. A ~~LCS and~~ MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.		✓
4. A form 5 for the initial calibration must be provided.	N/A	✓

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	N/A	✓
$\frac{\text{Raw Conc. x (5/mass)}}{1 - (\%\text{moisture}/100)}$ *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	✓

Work Order: 9103093 Method: RSK

3. Column name & ID are properly labeled.	✓	✓
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{\text{10mL of MeOH}}{\text{grams of soil}} \times \frac{\text{5mL Purge Volume}}{\text{mL of Extract Spiked}}$	✓	✓
5. All analyte recoveries over the calibration limit are flagged "E".	✓	✓
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative. Two Samples not Matched	—	✓
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	—	✓

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	✓
2. All continuing calibrations used to analyze the samples are included.	✓	✓
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	✓

QC Data

1. Any BLKs ~~or BKSs~~ analyzed as medium level have a dilution factor of 50, NOT 125.	N/A	✓
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	✓
3. ~~BKS &~~ MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	✓
4. Injection Logbook copies must be provided for all analysis sequences.	✓	✓
5. If TCLP, a copy of the Extraction Log must be provided.	N/A	✓
6. If Encore samples, a copy of the Sample Weight Log must be provided.	N/A	✓

Analyst Signature: [signature] Date: 03/27/09

Reviewer Signature: [signature] Date: 3/27/09

Analytical Report For 903098

for

CH2M Hill Inc

Project Manager: Emma Brower

Project Name: CTO-059 386383.FI.FQ.FQ

GPL Laboratories

GPL Laboratories, LLLP certifies that the test results meet all requirements of the NELAC Standards unless otherwise noted.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Fifteen water samples were received on 03/17/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Fifteen water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
All surrogate recoveries were within the QC limits.

The laboratory control sample analyzed on 3/26/2009 exhibited high internal standard responses due to a bad purge. Since the matrix spike and matrix spike duplicate analyzed along with this sequence exhibited spike recoveries within the QC limits, no further corrective action was taken. All other internal standard responses were within the QC limits.

Two matrix spikes and two matrix spike duplicates were analyzed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. For sample OU1-16GW11-0309, all of the RPDs were within the RPD QC limits, and eighteen spike recoveries out of one hundred forty, were outside of the QC limits. For sample OU1-N4GW09-0309, the RPDs of thirty-six compounds out of seventy, were outside of the RPD QC limits, and thirty-nine spike recoveries out of one hundred forty, were outside of the QC limits.

A laboratory control sample was analyzed along with the sample batches. BKS108893 had thirty-eight spike recoveries outside of the QC limits. BKS108905 had two spike recoveries outside of the QC limits. BKS108899 had three spike recoveries within the QC limits.

Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Twelve water samples were analyzed for Chloride, Nitrate-Nitrogen, and Nitrite-Nitrogen by EPA method 300.0.

Duplicate and matrix spike analyses were performed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. Percent recover of Nitrate was very slightly above trhe QC limits in both LCSs. Recovery of Nitrite was also above the QC limits in both MSs due to an interferring peak in the matrix.

A laboratory control sample was analyzed along with each batch. All recoveries were within QC limits.

All other QC criteria were met.

General Chemistry

Twelve water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. All QC criteria were met.

Twelve water samples were analyzed for Total Organic Carbon using EPA method 9060A. Samples were run in quadruplicate, thus no duplicate analysis was performed. Matrix spike analysis was performed on sample OU1-16GW11-0309. All QC criteria were met.

Other Analysis

Twelve water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were performed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. The MS/MSD for sample OU1-16GW11-0309 had two spike recoveries and one %RPD outside of the QC limits. The MS/MSD for sample OU1-N4GW09-0309 had two spike recoveries outside of the QC limits.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

GPL Laboratories, LLLP

Sample Summary Report

CH2M Hill Inc

Work Order: 903098

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
OU1-16GW10-0309	903098-005-007-1/3	SW8260LL	WATER	03/15/2009	03/17/2009
	903098-005-094-1/2	GPL-RSK-175			
	903098-005-060-1/1	E300			
	903098-005-076-1/1	E376.1			
	903098-005-124-1/1	SW9060			
OU1-16GW11-0309	903098-002-040-1/9	SW8260LL	WATER	03/16/2009	03/17/2009
	903098-002-116-1/6	GPL-RSK-175			
	903098-002-071-1/3	E300			
	903098-002-084-1/3	E376.1			
	903098-002-135-1/3	SW9060			
OU1-52GW46-0309	903098-001-037-1/3	SW8260LL	WATER	03/16/2009	03/17/2009
	903098-001-108-1/2	GPL-RSK-175			
	903098-001-067-1/1	E300			
	903098-001-083-1/1	E376.1			
	903098-001-131-1/1	SW9060			
OU1-52GW46-0309DL	903098-001-109-2/2DL	GPL-RSK-175	WATER	03/16/2009	03/17/2009
	903098-001-109-2/2DL	SW8260LL			
OU1-52GW46P-0309	903098-004-004-1/3	SW8260LL	WATER	03/16/2009	03/17/2009
	903098-004-092-1/2	GPL-RSK-175			
	903098-004-059-1/1	E300			
	903098-004-075-1/1	E376.1			
	903098-004-123-1/1	SW9060			
OU1-52GW46P-0309DL	903098-004-093-2/2DL	GPL-RSK-175	WATER	03/16/2009	03/17/2009
	903098-004-093-2/2DL	SW8260LL			
OU1-52GW61-0309	903098-010-031-1/3	SW8260LL	WATER	03/16/2009	03/17/2009
	903098-010-104-1/2	GPL-RSK-175			
	903098-010-065-1/1	E300			
	903098-010-081-1/1	E376.1			
	903098-010-129-1/1	SW9060			
OU1-52GW61-0309DL	903098-010-104-1/2DL	GPL-RSK-175	WATER	03/16/2009	03/17/2009
OU1-52GW62-0309	903098-009-019-1/3	SW8260LL	WATER	03/16/2009	03/17/2009
	903098-009-102-1/2	GPL-RSK-175			

Sample Summary Report

CH2M Hill Inc

Work Order: 903098

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
	903098-009-080-1/1	E376.1			
	903098-009-128-1/1	SW9060			
	903098-009-137-1/1	E300			
OU1-52GW62-0309DL	903098-009-103-2/2DL	GPL-RSK-175	WATER	03/16/2009	03/17/2009
OU1-MW53-0309	903098-006-010-1/3	SW8260LL	WATER	03/15/2009	03/17/2009
	903098-006-096-1/2	GPL-RSK-175			
	903098-006-061-1/1	E300			
	903098-006-077-1/1	E376.1			
	903098-006-125-1/1	SW9060			
OU1-MW53-0309DL	903098-006-097-2/2DL	GPL-RSK-175	WATER	03/15/2009	03/17/2009
	903098-006-097-2/2DL	SW8260LL			
OU1-MW53P-0309	903098-007-013-1/3	SW8260LL	WATER	03/15/2009	03/17/2009
	903098-007-098-1/2	GPL-RSK-175			
	903098-007-062-1/1	E300			
	903098-007-078-1/1	E376.1			
	903098-007-126-1/1	SW9060			
OU1-MW53P-0309DL	903098-007-099-2/2DL	GPL-RSK-175	WATER	03/15/2009	03/17/2009
	903098-007-099-2/2DL	SW8260LL			
OU1-MW55-0309	903098-008-016-1/3	SW8260LL	WATER	03/15/2009	03/17/2009
	903098-008-100-1/2	GPL-RSK-175			
	903098-008-063-1/1	E300			
	903098-008-079-1/1	E376.1			
	903098-008-127-1/1	SW9060			
OU1-MW55-0309DL	903098-008-101-2/2DL	GPL-RSK-175	WATER	03/15/2009	03/17/2009
OU1-MW59-0309	903098-003-001-1/3	SW8260LL	WATER	03/16/2009	03/17/2009
	903098-003-090-1/2	GPL-RSK-175			
	903098-003-058-1/1	E300			
	903098-003-074-1/1	E376.1			
	903098-003-122-1/1	SW9060			
OU1-MW59-0309DL	903098-003-091-2/2DL	GPL-RSK-175	WATER	03/16/2009	03/17/2009
OU1-N4GW07-0309	903098-011-034-1/3	SW8260LL	WATER	03/16/2009	03/17/2009

Sample Summary Report

CH2M Hill Inc

Work Order: 903098

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
	903098-011-106-1/2	GPL-RSK-175			
	903098-011-066-1/1	E300			
	903098-011-082-1/1	E376.1			
	903098-011-130-1/1	SW9060			
OU1-N4GW09-0309	903098-012-049-1/9	SW8260LL	WATER	03/16/2009	03/17/2009
	903098-012-110-1/6	GPL-RSK-175			
	903098-012-068-1/3	E300			
	903098-012-087-1/3	E376.1			
	903098-012-132-1/3	SW9060			
OU1-N4GW09-0309DL	903098-012-111-2/6DL	GPL-RSK-175	WATER	03/16/2009	03/17/2009
OU1-TB08-0309	903098-013-022-1/3	SW8260LL	WATER	03/16/2009	03/17/2009
OU1-TB09-0309	903098-014-025-1/3	SW8260LL	WATER	03/16/2009	03/17/2009
OU1-TB10-0309	903098-015-028-1/3	SW8260LL	WATER	03/15/2009	03/17/2009

QC SUMMARY PACKAGE

GPL Laboratories

VOLATILE ORGANICS

GPL Laboratories

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108893
Sample Volume :	5	Lab File ID :	A62570.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	44	
71-55-6	1,1,1-Trichloroethane	13	
79-34-5	1,1,2,2-Tetrachloroethane	26	
79-00-5	1,1,2-Trichloroethane	7.8	
75-34-3	1,1-Dichloroethane	42	
75-35-4	1,1-Dichloroethene	25	
563-58-6	1,1-Dichloropropene	27	
87-61-6	1,2,3-Trichlorobenzene	36	
96-18-4	1,2,3-Trichloropropane	32	
120-82-1	1,2,4-Trichlorobenzene	30	
95-63-6	1,2,4-Trimethylbenzene	34	
96-12-8	1,2-Dibromo-3-Chloropropane	21	
95-50-1	1,2-Dichlorobenzene	37	
107-06-2	1,2-Dichloroethane	21	
78-87-5	1,2-Dichloropropane	7.6	
108-67-8	1,3,5-trimethylbenzene	34	
541-73-1	1,3-Dichlorobenzene	40	
142-28-9	1,3-Dichloropropane	40	
106-46-7	1,4-Dichlorobenzene	40	
594-20-7	2,2-Dichloropropane	51	
78-93-3	2-Butanone	37	
95-49-8	2-Chlorotoluene	1.6	
591-78-6	2-Hexanone	59	
106-43-4	4-Chlorotoluene	41	
99-87-6	4-Isopropyltoluene	37	
108-10-1	4-Methyl-2-Pentanone	61	
67-64-1	Acetone	50	
71-43-2	Benzene	23	
108-86-1	Bromobenzene	42	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108893
Sample Volume :	5	Lab File ID :	A62570.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	59	
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	33	
74-83-9	Bromomethane	73	
75-15-0	Carbon Disulfide	45	
56-23-5	Carbon Tetrachloride	10	
108-90-7	Chlorobenzene	45	
75-00-3	Chloroethane	29	
67-66-3	Chloroform	38	
74-87-3	Chloromethane	12	
110-82-7	Cyclohexane	29	
124-48-1	Dibromochloromethane	48	
74-95-3	Dibromomethane	7.8	
75-71-8	Dichlorodifluoromethane	10	
100-41-4	Ethylbenzene	42	
106-93-4	Ethylene DiBromide	37	
76-13-1	Freon 113	120	
87-68-3	Hexachlorobutadiene	29	
98-82-8	Isopropylbenzene	38	
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	12	
75-09-2	Methylene Chloride	4.4	
91-20-3	Naphthalene	31	
135-98-8	Sec-Butylbenzene	33	
100-42-5	Styrene	40	
127-18-4	Tetrachloroethylene	71	
108-88-3	Toluene	10	
79-01-6	Trichloroethene	14	
75-69-4	Trichlorofluoromethane	88	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108893
Sample Volume :	5	Lab File ID :	A62570.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	11	
75-01-4	Vinyl Chloride	23	
156-59-2	cis-1,2-Dichloroethene	54	
10061-01-5	cis-1,3-Dichloropropene	9.3	
136777-61-2	m,p-Xylene	88	
104-51-8	n-Butylbenzene	30	
103-65-1	n-Propylbenzene	37	
95-47-6	o-Xylene	40	
98-06-6	tert-Butylbenzene	36	
1634-04-4	tert-butyl methyl ether	5.2	
156-60-5	trans-1,2-dichloroethene	54	
10061-02-6	trans-1,3-dichloropropene	7.8	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108899
Sample Volume :	5	Lab File ID :	A62604.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	53	
71-55-6	1,1,1-Trichloroethane	61	
79-34-5	1,1,2,2-Tetrachloroethane	42	
79-00-5	1,1,2-Trichloroethane	50	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	54	
563-58-6	1,1-Dichloropropene	47	
87-61-6	1,2,3-Trichlorobenzene	57	
96-18-4	1,2,3-Trichloropropane	45	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	51	
96-12-8	1,2-Dibromo-3-Chloropropane	40	
95-50-1	1,2-Dichlorobenzene	59	
107-06-2	1,2-Dichloroethane	48	
78-87-5	1,2-Dichloropropane	42	
108-67-8	1,3,5-trimethylbenzene	51	
541-73-1	1,3-Dichlorobenzene	58	
142-28-9	1,3-Dichloropropane	45	
106-46-7	1,4-Dichlorobenzene	60	
594-20-7	2,2-Dichloropropane	51	
78-93-3	2-Butanone	96	
95-49-8	2-Chlorotoluene	58	
591-78-6	2-Hexanone	68	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	67	
67-64-1	Acetone	110	
71-43-2	Benzene	44	
108-86-1	Bromobenzene	59	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108899
Sample Volume :	5	Lab File ID :	A62604.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	69	
75-27-4	Bromodichloromethane	45	
75-25-2	Bromoform	48	
74-83-9	Bromomethane	75	
75-15-0	Carbon Disulfide	50	
56-23-5	Carbon Tetrachloride	61	
108-90-7	Chlorobenzene	52	
75-00-3	Chloroethane	47	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	62	
110-82-7	Cyclohexane	51	
124-48-1	Dibromochloromethane	53	
74-95-3	Dibromomethane	49	
75-71-8	Dichlorodifluoromethane	46	
100-41-4	Ethylbenzene	46	
106-93-4	Ethylene DiBromide	46	
76-13-1	Freon 113	64	
87-68-3	Hexachlorobutadiene	53	
98-82-8	Isopropylbenzene	52	
79-20-9	Methyl Acetate	59	
108-87-2	Methylcyclohexane	52	
75-09-2	Methylene Chloride	53	
91-20-3	Naphthalene	53	
135-98-8	Sec-Butylbenzene	51	
100-42-5	Styrene	49	
127-18-4	Tetrachloroethylene	63	
108-88-3	Toluene	51	
79-01-6	Trichloroethene	44	
75-69-4	Trichlorofluoromethane	75	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108899
Sample Volume :	5	Lab File ID :	A62604.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	35	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	52	
10061-01-5	cis-1,3-Dichloropropene	39	
136777-61-2	m,p-Xylene	97	
104-51-8	n-Butylbenzene	48	
103-65-1	n-Propylbenzene	49	
95-47-6	o-Xylene	51	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	56	
156-60-5	trans-1,2-dichloroethene	58	
10061-02-6	trans-1,3-dichloropropene	45	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108905
Sample Volume :	5	Lab File ID :	A62636.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	48	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	45	
79-00-5	1,1,2-Trichloroethane	49	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	55	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	55	
96-18-4	1,2,3-Trichloropropane	44	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	42	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	50	
78-87-5	1,2-Dichloropropane	43	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	57	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	57	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	91	
95-49-8	2-Chlorotoluene	56	
591-78-6	2-Hexanone	71	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	71	
67-64-1	Acetone	120	
71-43-2	Benzene	44	
108-86-1	Bromobenzene	56	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108905
Sample Volume :	5	Lab File ID :	A62636.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	59	
75-27-4	Bromodichloromethane	45	
75-25-2	Bromoform	45	
74-83-9	Bromomethane	75	
75-15-0	Carbon Disulfide	49	
56-23-5	Carbon Tetrachloride	59	
108-90-7	Chlorobenzene	52	
75-00-3	Chloroethane	51	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	62	
110-82-7	Cyclohexane	54	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	47	
75-71-8	Dichlorodifluoromethane	46	
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	48	
76-13-1	Freon 113	65	
87-68-3	Hexachlorobutadiene	54	
98-82-8	Isopropylbenzene	54	
79-20-9	Methyl Acetate	53	
108-87-2	Methylcyclohexane	53	
75-09-2	Methylene Chloride	52	
91-20-3	Naphthalene	49	
135-98-8	Sec-Butylbenzene	54	
100-42-5	Styrene	53	
127-18-4	Tetrachloroethylene	57	
108-88-3	Toluene	55	
79-01-6	Trichloroethene	47	
75-69-4	Trichlorofluoromethane	80	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108905
Sample Volume :	5	Lab File ID :	A62636.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	36	
75-01-4	Vinyl Chloride	52	
156-59-2	cis-1,2-Dichloroethene	54	
10061-01-5	cis-1,3-Dichloropropene	40	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	53	
103-65-1	n-Propylbenzene	54	
95-47-6	o-Xylene	52	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	53	
156-60-5	trans-1,2-dichloroethene	56	
10061-02-6	trans-1,3-dichloropropene	46	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108893
Sample Volume :	5	Lab File ID :	A62572.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108893
Sample Volume :	5	Lab File ID :	A62572.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108893
Sample Volume :	5	Lab File ID :	A62572.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108899
Sample Volume :	5	Lab File ID :	A62606.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108899
Sample Volume :	5	Lab File ID :	A62606.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108899
Sample Volume :	5	Lab File ID :	A62606.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108905
Sample Volume :	5	Lab File ID :	A62638.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108905
Sample Volume :	5	Lab File ID :	A62638.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108905
Sample Volume :	5	Lab File ID :	A62638.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-007-1/3
Sample Volume :	5	Lab File ID :	A62592.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-007-1/3
Sample Volume :	5	Lab File ID :	A62592.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.5	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	4.9	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-007-1/3
Sample Volume :	5	Lab File ID :	A62592.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	4.8	
156-59-2	cis-1,2-Dichloroethene	8.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9
Sample Volume :	.5	Lab File ID :	A62586.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9
Sample Volume :	.5	Lab File ID :	A62586.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	10	U
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	10	U
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	210	
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9
Sample Volume :	.5	Lab File ID :	A62586.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MS
Sample Volume :	.5	Lab File ID :	A62648.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	490	
71-55-6	1,1,1-Trichloroethane	670	
79-34-5	1,1,2,2-Tetrachloroethane	460	
79-00-5	1,1,2-Trichloroethane	480	
75-34-3	1,1-Dichloroethane	600	
75-35-4	1,1-Dichloroethene	610	
563-58-6	1,1-Dichloropropene	540	
87-61-6	1,2,3-Trichlorobenzene	530	
96-18-4	1,2,3-Trichloropropane	490	
120-82-1	1,2,4-Trichlorobenzene	550	
95-63-6	1,2,4-Trimethylbenzene	560	
96-12-8	1,2-Dibromo-3-Chloropropane	440	
95-50-1	1,2-Dichlorobenzene	580	
107-06-2	1,2-Dichloroethane	500	
78-87-5	1,2-Dichloropropane	440	
108-67-8	1,3,5-trimethylbenzene	560	
541-73-1	1,3-Dichlorobenzene	580	
142-28-9	1,3-Dichloropropane	460	
106-46-7	1,4-Dichlorobenzene	570	
594-20-7	2,2-Dichloropropane	580	
78-93-3	2-Butanone	970	
95-49-8	2-Chlorotoluene	600	
591-78-6	2-Hexanone	770	
106-43-4	4-Chlorotoluene	580	
99-87-6	4-Isopropyltoluene	620	
108-10-1	4-Methyl-2-Pentanone	770	
67-64-1	Acetone	1200	
71-43-2	Benzene	470	
108-86-1	Bromobenzene	560	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MS
Sample Volume :	.5	Lab File ID :	A62648.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	600	
75-27-4	Bromodichloromethane	480	
75-25-2	Bromoform	460	
74-83-9	Bromomethane	780	
75-15-0	Carbon Disulfide	510	
56-23-5	Carbon Tetrachloride	660	
108-90-7	Chlorobenzene	530	
75-00-3	Chloroethane	540	
67-66-3	Chloroform	580	
74-87-3	Chloromethane	590	
110-82-7	Cyclohexane	610	
124-48-1	Dibromochloromethane	510	
74-95-3	Dibromomethane	500	
75-71-8	Dichlorodifluoromethane	460	
100-41-4	Ethylbenzene	530	
106-93-4	Ethylene DiBromide	480	
76-13-1	Freon 113	780	
87-68-3	Hexachlorobutadiene	550	
98-82-8	Isopropylbenzene	570	
79-20-9	Methyl Acetate	630	
108-87-2	Methylcyclohexane	630	
75-09-2	Methylene Chloride	550	
91-20-3	Naphthalene	520	
135-98-8	Sec-Butylbenzene	590	
100-42-5	Styrene	530	
127-18-4	Tetrachloroethylene	610	
108-88-3	Toluene	570	
79-01-6	Trichloroethene	500	
75-69-4	Trichlorofluoromethane	840	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MS
Sample Volume :	.5	Lab File ID :	A62648.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	320	
75-01-4	Vinyl Chloride	480	
156-59-2	cis-1,2-Dichloroethene	550	
10061-01-5	cis-1,3-Dichloropropene	400	
136777-61-2	m,p-Xylene	1100	
104-51-8	n-Butylbenzene	570	
103-65-1	n-Propylbenzene	570	
95-47-6	o-Xylene	550	
98-06-6	tert-Butylbenzene	600	
1634-04-4	tert-butyl methyl ether	560	
156-60-5	trans-1,2-dichloroethene	620	
10061-02-6	trans-1,3-dichloropropene	460	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MSD
Sample Volume :	.5	Lab File ID :	A62650.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	500	
71-55-6	1,1,1-Trichloroethane	680	
79-34-5	1,1,2,2-Tetrachloroethane	520	
79-00-5	1,1,2-Trichloroethane	500	
75-34-3	1,1-Dichloroethane	610	
75-35-4	1,1-Dichloroethene	630	
563-58-6	1,1-Dichloropropene	560	
87-61-6	1,2,3-Trichlorobenzene	600	
96-18-4	1,2,3-Trichloropropane	540	
120-82-1	1,2,4-Trichlorobenzene	600	
95-63-6	1,2,4-Trimethylbenzene	580	
96-12-8	1,2-Dibromo-3-Chloropropane	500	
95-50-1	1,2-Dichlorobenzene	610	
107-06-2	1,2-Dichloroethane	540	
78-87-5	1,2-Dichloropropane	460	
108-67-8	1,3,5-trimethylbenzene	590	
541-73-1	1,3-Dichlorobenzene	610	
142-28-9	1,3-Dichloropropane	470	
106-46-7	1,4-Dichlorobenzene	610	
594-20-7	2,2-Dichloropropane	590	
78-93-3	2-Butanone	1100	
95-49-8	2-Chlorotoluene	610	
591-78-6	2-Hexanone	850	
106-43-4	4-Chlorotoluene	600	
99-87-6	4-Isopropyltoluene	650	
108-10-1	4-Methyl-2-Pentanone	840	
67-64-1	Acetone	1200	
71-43-2	Benzene	490	
108-86-1	Bromobenzene	580	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MSD
Sample Volume :	.5	Lab File ID :	A62650.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	650	
75-27-4	Bromodichloromethane	500	
75-25-2	Bromoform	490	
74-83-9	Bromomethane	820	
75-15-0	Carbon Disulfide	530	
56-23-5	Carbon Tetrachloride	660	
108-90-7	Chlorobenzene	550	
75-00-3	Chloroethane	550	
67-66-3	Chloroform	590	
74-87-3	Chloromethane	680	
110-82-7	Cyclohexane	620	
124-48-1	Dibromochloromethane	520	
74-95-3	Dibromomethane	530	
75-71-8	Dichlorodifluoromethane	430	
100-41-4	Ethylbenzene	540	
106-93-4	Ethylene DiBromide	500	
76-13-1	Freon 113	780	
87-68-3	Hexachlorobutadiene	580	
98-82-8	Isopropylbenzene	600	
79-20-9	Methyl Acetate	720	
108-87-2	Methylcyclohexane	630	
75-09-2	Methylene Chloride	560	
91-20-3	Naphthalene	570	
135-98-8	Sec-Butylbenzene	610	
100-42-5	Styrene	540	
127-18-4	Tetrachloroethylene	600	
108-88-3	Toluene	600	
79-01-6	Trichloroethene	510	
75-69-4	Trichlorofluoromethane	880	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MSD
Sample Volume :	.5	Lab File ID :	A62650.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	380	
75-01-4	Vinyl Chloride	500	
156-59-2	cis-1,2-Dichloroethene	560	
10061-01-5	cis-1,3-Dichloropropene	420	
136777-61-2	m,p-Xylene	1100	
104-51-8	n-Butylbenzene	610	
103-65-1	n-Propylbenzene	590	
95-47-6	o-Xylene	560	
98-06-6	tert-Butylbenzene	610	
1634-04-4	tert-butyl methyl ether	580	
156-60-5	trans-1,2-dichloroethene	610	
10061-02-6	trans-1,3-dichloropropene	480	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-037-1/3
Sample Volume :	.5	Lab File ID :	A62584.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-037-1/3
Sample Volume :	.5	Lab File ID :	A62584.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	10	U
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	14	
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	50000	E
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-037-1/3
Sample Volume :	.5	Lab File ID :	A62584.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	68	
156-59-2	cis-1,2-Dichloroethene	1900	
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	46	
10061-02-6	trans-1,3-dichloropropene	10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-038-2/3
Sample Volume :	.005	Lab File ID :	A62640.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1000
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1000	U
71-55-6	1,1,1-Trichloroethane	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
75-34-3	1,1-Dichloroethane	1000	U
75-35-4	1,1-Dichloroethene	1000	U
563-58-6	1,1-Dichloropropene	1000	U
87-61-6	1,2,3-Trichlorobenzene	1000	U
96-18-4	1,2,3-Trichloropropane	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
95-63-6	1,2,4-Trimethylbenzene	1000	U
96-12-8	1,2-Dibromo-3-Chloropropane	2000	U
95-50-1	1,2-Dichlorobenzene	1000	U
107-06-2	1,2-Dichloroethane	1000	U
78-87-5	1,2-Dichloropropane	1000	U
108-67-8	1,3,5-trimethylbenzene	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
142-28-9	1,3-Dichloropropane	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
594-20-7	2,2-Dichloropropane	1000	U
78-93-3	2-Butanone	5000	U
95-49-8	2-Chlorotoluene	1000	U
591-78-6	2-Hexanone	5000	U
106-43-4	4-Chlorotoluene	1000	U
99-87-6	4-Isopropyltoluene	1000	U
108-10-1	4-Methyl-2-Pentanone	5000	U
67-64-1	Acetone	5000	U
71-43-2	Benzene	1000	U
108-86-1	Bromobenzene	1000	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-038-2/3
Sample Volume :	.005	Lab File ID :	A62640.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1000
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1000	U
75-27-4	Bromodichloromethane	1000	U
75-25-2	Bromoform	1000	U
74-83-9	Bromomethane	1000	U
75-15-0	Carbon Disulfide	1000	U
56-23-5	Carbon Tetrachloride	1000	U
108-90-7	Chlorobenzene	1000	U
75-00-3	Chloroethane	1000	U
67-66-3	Chloroform	1000	U
74-87-3	Chloromethane	1000	U
110-82-7	Cyclohexane	1000	U
124-48-1	Dibromochloromethane	1000	U
74-95-3	Dibromomethane	1000	U
75-71-8	Dichlorodifluoromethane	1000	U
100-41-4	Ethylbenzene	1000	U
106-93-4	Ethylene DiBromide	1000	U
76-13-1	Freon 113	1000	U
87-68-3	Hexachlorobutadiene	1000	U
98-82-8	Isopropylbenzene	1000	U
79-20-9	Methyl Acetate	1000	U
108-87-2	Methylcyclohexane	1000	U
75-09-2	Methylene Chloride	1000	U
91-20-3	Naphthalene	1000	U
135-98-8	Sec-Butylbenzene	1000	U
100-42-5	Styrene	1000	U
127-18-4	Tetrachloroethylene	1000	U
108-88-3	Toluene	1000	U
79-01-6	Trichloroethene	17000	
75-69-4	Trichlorofluoromethane	1000	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-038-2/3
Sample Volume :	.005	Lab File ID :	A62640.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1000
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1000	U
75-01-4	Vinyl Chloride	1000	U
156-59-2	cis-1,2-Dichloroethene	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
136777-61-2	m,p-Xylene	1000	U
104-51-8	n-Butylbenzene	1000	U
103-65-1	n-Propylbenzene	1000	U
95-47-6	o-Xylene	1000	U
98-06-6	tert-Butylbenzene	1000	U
1634-04-4	tert-butyl methyl ether	1000	U
156-60-5	trans-1,2-dichloroethene	1000	U
10061-02-6	trans-1,3-dichloropropene	1000	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-004-1/3
Sample Volume :	5	Lab File ID :	A62590.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	11	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-004-1/3
Sample Volume :	5	Lab File ID :	A62590.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	0.88	J
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.3	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	19	
108-88-3	Toluene	2.1	
79-01-6	Trichloroethene	25000	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-004-1/3
Sample Volume :	5	Lab File ID :	A62590.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	28	
156-59-2	cis-1,2-Dichloroethene	6200	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.9	
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	0.73	J
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	4.7	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-005-2/3
Sample Volume :	.01	Lab File ID :	A62642.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
75-34-3	1,1-Dichloroethane	500	U
75-35-4	1,1-Dichloroethene	500	U
563-58-6	1,1-Dichloropropene	500	U
87-61-6	1,2,3-Trichlorobenzene	500	U
96-18-4	1,2,3-Trichloropropane	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
95-63-6	1,2,4-Trimethylbenzene	500	U
96-12-8	1,2-Dibromo-3-Chloropropane	1000	U
95-50-1	1,2-Dichlorobenzene	500	U
107-06-2	1,2-Dichloroethane	500	U
78-87-5	1,2-Dichloropropane	500	U
108-67-8	1,3,5-trimethylbenzene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
142-28-9	1,3-Dichloropropane	500	U
106-46-7	1,4-Dichlorobenzene	500	U
594-20-7	2,2-Dichloropropane	500	U
78-93-3	2-Butanone	2500	U
95-49-8	2-Chlorotoluene	500	U
591-78-6	2-Hexanone	2500	U
106-43-4	4-Chlorotoluene	500	U
99-87-6	4-Isopropyltoluene	500	U
108-10-1	4-Methyl-2-Pentanone	2500	U
67-64-1	Acetone	2500	U
71-43-2	Benzene	500	U
108-86-1	Bromobenzene	500	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-005-2/3
Sample Volume :	.01	Lab File ID :	A62642.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	500	U
75-27-4	Bromodichloromethane	500	U
75-25-2	Bromoform	500	U
74-83-9	Bromomethane	500	U
75-15-0	Carbon Disulfide	500	U
56-23-5	Carbon Tetrachloride	500	U
108-90-7	Chlorobenzene	500	U
75-00-3	Chloroethane	500	U
67-66-3	Chloroform	500	U
74-87-3	Chloromethane	500	U
110-82-7	Cyclohexane	500	U
124-48-1	Dibromochloromethane	500	U
74-95-3	Dibromomethane	500	U
75-71-8	Dichlorodifluoromethane	500	U
100-41-4	Ethylbenzene	500	U
106-93-4	Ethylene DiBromide	500	U
76-13-1	Freon 113	500	U
87-68-3	Hexachlorobutadiene	500	U
98-82-8	Isopropylbenzene	500	U
79-20-9	Methyl Acetate	500	U
108-87-2	Methylcyclohexane	500	U
75-09-2	Methylene Chloride	500	U
91-20-3	Naphthalene	500	U
135-98-8	Sec-Butylbenzene	500	U
100-42-5	Styrene	500	U
127-18-4	Tetrachloroethylene	500	U
108-88-3	Toluene	500	U
79-01-6	Trichloroethene	20000	
75-69-4	Trichlorofluoromethane	500	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-005-2/3
Sample Volume :	.01	Lab File ID :	A62642.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	500	U
75-01-4	Vinyl Chloride	500	U
156-59-2	cis-1,2-Dichloroethene	2100	
10061-01-5	cis-1,3-Dichloropropene	500	U
136777-61-2	m,p-Xylene	500	U
104-51-8	n-Butylbenzene	500	U
103-65-1	n-Propylbenzene	500	U
95-47-6	o-Xylene	500	U
98-06-6	tert-Butylbenzene	500	U
1634-04-4	tert-butyl methyl ether	500	U
156-60-5	trans-1,2-dichloroethene	500	U
10061-02-6	trans-1,3-dichloropropene	500	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-031-1/3
Sample Volume :	5	Lab File ID :	A62612.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-031-1/3
Sample Volume :	5	Lab File ID :	A62612.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	5.5	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-031-1/3
Sample Volume :	5	Lab File ID :	A62612.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	2.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-019-1/3
Sample Volume :	.1	Lab File ID :	A62610.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
563-58-6	1,1-Dichloropropene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
96-12-8	1,2-Dibromo-3-Chloropropane	100	U
95-50-1	1,2-Dichlorobenzene	50	U
107-06-2	1,2-Dichloroethane	50	U
78-87-5	1,2-Dichloropropane	50	U
108-67-8	1,3,5-trimethylbenzene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
142-28-9	1,3-Dichloropropane	50	U
106-46-7	1,4-Dichlorobenzene	50	U
594-20-7	2,2-Dichloropropane	50	U
78-93-3	2-Butanone	250	U
95-49-8	2-Chlorotoluene	50	U
591-78-6	2-Hexanone	250	U
106-43-4	4-Chlorotoluene	50	U
99-87-6	4-Isopropyltoluene	50	U
108-10-1	4-Methyl-2-Pentanone	250	U
67-64-1	Acetone	250	U
71-43-2	Benzene	50	U
108-86-1	Bromobenzene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-019-1/3
Sample Volume :	.1	Lab File ID :	A62610.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	50	U
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
75-15-0	Carbon Disulfide	50	U
56-23-5	Carbon Tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
110-82-7	Cyclohexane	50	U
124-48-1	Dibromochloromethane	50	U
74-95-3	Dibromomethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
100-41-4	Ethylbenzene	50	U
106-93-4	Ethylene DiBromide	50	U
76-13-1	Freon 113	50	U
87-68-3	Hexachlorobutadiene	50	U
98-82-8	Isopropylbenzene	50	U
79-20-9	Methyl Acetate	50	U
108-87-2	Methylcyclohexane	50	U
75-09-2	Methylene Chloride	170	
91-20-3	Naphthalene	50	U
135-98-8	Sec-Butylbenzene	50	U
100-42-5	Styrene	50	U
127-18-4	Tetrachloroethylene	50	U
108-88-3	Toluene	50	U
79-01-6	Trichloroethene	2200	
75-69-4	Trichlorofluoromethane	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-019-1/3
Sample Volume :	.1	Lab File ID :	A62610.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	50	U
75-01-4	Vinyl Chloride	50	U
156-59-2	cis-1,2-Dichloroethene	1100	
10061-01-5	cis-1,3-Dichloropropene	50	U
136777-61-2	m,p-Xylene	50	U
104-51-8	n-Butylbenzene	50	U
103-65-1	n-Propylbenzene	50	U
95-47-6	o-Xylene	50	U
98-06-6	tert-Butylbenzene	50	U
1634-04-4	tert-butyl methyl ether	50	U
156-60-5	trans-1,2-dichloroethene	75	
10061-02-6	trans-1,3-dichloropropene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-010-1/3
Sample Volume :	5	Lab File ID :	A62594.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.8	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-010-1/3
Sample Volume :	5	Lab File ID :	A62594.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.0	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1100	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-010-1/3
Sample Volume :	5	Lab File ID :	A62594.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	8.5	
156-59-2	cis-1,2-Dichloroethene	610	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	250	E
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-011-2/3
Sample Volume :	.2	Lab File ID :	A62644.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	25	U
71-55-6	1,1,1-Trichloroethane	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
75-34-3	1,1-Dichloroethane	25	U
75-35-4	1,1-Dichloroethene	25	U
563-58-6	1,1-Dichloropropene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
96-12-8	1,2-Dibromo-3-Chloropropane	50	U
95-50-1	1,2-Dichlorobenzene	25	U
107-06-2	1,2-Dichloroethane	25	U
78-87-5	1,2-Dichloropropane	25	U
108-67-8	1,3,5-trimethylbenzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
142-28-9	1,3-Dichloropropane	25	U
106-46-7	1,4-Dichlorobenzene	25	U
594-20-7	2,2-Dichloropropane	25	U
78-93-3	2-Butanone	130	U
95-49-8	2-Chlorotoluene	25	U
591-78-6	2-Hexanone	130	U
106-43-4	4-Chlorotoluene	25	U
99-87-6	4-Isopropyltoluene	25	U
108-10-1	4-Methyl-2-Pentanone	130	U
67-64-1	Acetone	130	U
71-43-2	Benzene	25	U
108-86-1	Bromobenzene	25	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-011-2/3
Sample Volume :	.2	Lab File ID :	A62644.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	25	U
75-27-4	Bromodichloromethane	25	U
75-25-2	Bromoform	25	U
74-83-9	Bromomethane	25	U
75-15-0	Carbon Disulfide	25	U
56-23-5	Carbon Tetrachloride	25	U
108-90-7	Chlorobenzene	25	U
75-00-3	Chloroethane	25	U
67-66-3	Chloroform	25	U
74-87-3	Chloromethane	25	U
110-82-7	Cyclohexane	25	U
124-48-1	Dibromochloromethane	25	U
74-95-3	Dibromomethane	25	U
75-71-8	Dichlorodifluoromethane	25	U
100-41-4	Ethylbenzene	25	U
106-93-4	Ethylene DiBromide	25	U
76-13-1	Freon 113	25	U
87-68-3	Hexachlorobutadiene	25	U
98-82-8	Isopropylbenzene	25	U
79-20-9	Methyl Acetate	25	U
108-87-2	Methylcyclohexane	25	U
75-09-2	Methylene Chloride	25	U
91-20-3	Naphthalene	25	U
135-98-8	Sec-Butylbenzene	25	U
100-42-5	Styrene	25	U
127-18-4	Tetrachloroethylene	25	U
108-88-3	Toluene	25	U
79-01-6	Trichloroethene	510	
75-69-4	Trichlorofluoromethane	25	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-011-2/3
Sample Volume :	.2	Lab File ID :	A62644.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	25	U
75-01-4	Vinyl Chloride	25	U
156-59-2	cis-1,2-Dichloroethene	350	
10061-01-5	cis-1,3-Dichloropropene	25	U
136777-61-2	m,p-Xylene	25	U
104-51-8	n-Butylbenzene	25	U
103-65-1	n-Propylbenzene	25	U
95-47-6	o-Xylene	25	U
98-06-6	tert-Butylbenzene	25	U
1634-04-4	tert-butyl methyl ether	25	U
156-60-5	trans-1,2-dichloroethene	140	
10061-02-6	trans-1,3-dichloropropene	25	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-013-1/3
Sample Volume :	5	Lab File ID :	A62596.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.6	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-013-1/3
Sample Volume :	5	Lab File ID :	A62596.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1200	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-013-1/3
Sample Volume :	5	Lab File ID :	A62596.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	8.9	
156-59-2	cis-1,2-Dichloroethene	590	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	240	E
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-014-2/3
Sample Volume :	.2	Lab File ID :	A62646.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	25	U
71-55-6	1,1,1-Trichloroethane	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
75-34-3	1,1-Dichloroethane	25	U
75-35-4	1,1-Dichloroethene	25	U
563-58-6	1,1-Dichloropropene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
96-12-8	1,2-Dibromo-3-Chloropropane	50	U
95-50-1	1,2-Dichlorobenzene	25	U
107-06-2	1,2-Dichloroethane	25	U
78-87-5	1,2-Dichloropropane	25	U
108-67-8	1,3,5-trimethylbenzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
142-28-9	1,3-Dichloropropane	25	U
106-46-7	1,4-Dichlorobenzene	25	U
594-20-7	2,2-Dichloropropane	25	U
78-93-3	2-Butanone	130	U
95-49-8	2-Chlorotoluene	25	U
591-78-6	2-Hexanone	130	U
106-43-4	4-Chlorotoluene	25	U
99-87-6	4-Isopropyltoluene	25	U
108-10-1	4-Methyl-2-Pentanone	130	U
67-64-1	Acetone	130	U
71-43-2	Benzene	25	U
108-86-1	Bromobenzene	25	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-014-2/3
Sample Volume :	.2	Lab File ID :	A62646.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	25	U
75-27-4	Bromodichloromethane	25	U
75-25-2	Bromoform	25	U
74-83-9	Bromomethane	25	U
75-15-0	Carbon Disulfide	25	U
56-23-5	Carbon Tetrachloride	25	U
108-90-7	Chlorobenzene	25	U
75-00-3	Chloroethane	25	U
67-66-3	Chloroform	25	U
74-87-3	Chloromethane	25	U
110-82-7	Cyclohexane	25	U
124-48-1	Dibromochloromethane	25	U
74-95-3	Dibromomethane	25	U
75-71-8	Dichlorodifluoromethane	25	U
100-41-4	Ethylbenzene	25	U
106-93-4	Ethylene DiBromide	25	U
76-13-1	Freon 113	25	U
87-68-3	Hexachlorobutadiene	25	U
98-82-8	Isopropylbenzene	25	U
79-20-9	Methyl Acetate	25	U
108-87-2	Methylcyclohexane	25	U
75-09-2	Methylene Chloride	25	U
91-20-3	Naphthalene	25	U
135-98-8	Sec-Butylbenzene	25	U
100-42-5	Styrene	25	U
127-18-4	Tetrachloroethylene	25	U
108-88-3	Toluene	25	U
79-01-6	Trichloroethene	500	
75-69-4	Trichlorofluoromethane	25	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-014-2/3
Sample Volume :	.2	Lab File ID :	A62646.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	25	U
75-01-4	Vinyl Chloride	25	U
156-59-2	cis-1,2-Dichloroethene	340	
10061-01-5	cis-1,3-Dichloropropene	25	U
136777-61-2	m,p-Xylene	25	U
104-51-8	n-Butylbenzene	25	U
103-65-1	n-Propylbenzene	25	U
95-47-6	o-Xylene	25	U
98-06-6	tert-Butylbenzene	25	U
1634-04-4	tert-butyl methyl ether	25	U
156-60-5	trans-1,2-dichloroethene	150	
10061-02-6	trans-1,3-dichloropropene	25	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-016-1/3
Sample Volume :	5	Lab File ID :	A62608.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-016-1/3
Sample Volume :	5	Lab File ID :	A62608.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-016-1/3
Sample Volume :	5	Lab File ID :	A62608.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-001-1/3
Sample Volume :	5	Lab File ID :	A62588.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	46	
75-35-4	1,1-Dichloroethene	110	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-001-1/3
Sample Volume :	5	Lab File ID :	A62588.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	5.7	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-001-1/3
Sample Volume :	5	Lab File ID :	A62588.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	160	
156-59-2	cis-1,2-Dichloroethene	190	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	46	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-034-1/3
Sample Volume :	5	Lab File ID :	A62614.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-034-1/3
Sample Volume :	5	Lab File ID :	A62614.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-034-1/3
Sample Volume :	5	Lab File ID :	A62614.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9
Sample Volume :	5	Lab File ID :	A62616.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9
Sample Volume :	5	Lab File ID :	A62616.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	2.7	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9
Sample Volume :	5	Lab File ID :	A62616.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.97	J
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MS
Sample Volume :	5	Lab File ID :	A62652.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	43	
71-55-6	1,1,1-Trichloroethane	15	
79-34-5	1,1,2,2-Tetrachloroethane	40	
79-00-5	1,1,2-Trichloroethane	9.0	
75-34-3	1,1-Dichloroethane	13	
75-35-4	1,1-Dichloroethene	13	
563-58-6	1,1-Dichloropropene	32	
87-61-6	1,2,3-Trichlorobenzene	43	
96-18-4	1,2,3-Trichloropropane	46	
120-82-1	1,2,4-Trichlorobenzene	43	
95-63-6	1,2,4-Trimethylbenzene	46	
96-12-8	1,2-Dibromo-3-Chloropropane	33	
95-50-1	1,2-Dichlorobenzene	50	
107-06-2	1,2-Dichloroethane	37	
78-87-5	1,2-Dichloropropane	8.4	
108-67-8	1,3,5-trimethylbenzene	47	
541-73-1	1,3-Dichlorobenzene	49	
142-28-9	1,3-Dichloropropane	42	
106-46-7	1,4-Dichlorobenzene	50	
594-20-7	2,2-Dichloropropane	12	
78-93-3	2-Butanone	58	
95-49-8	2-Chlorotoluene	52	
591-78-6	2-Hexanone	82	
106-43-4	4-Chlorotoluene	52	
99-87-6	4-Isopropyltoluene	52	
108-10-1	4-Methyl-2-Pentanone	81	
67-64-1	Acetone	2.9	J
71-43-2	Benzene	29	
108-86-1	Bromobenzene	50	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MS
Sample Volume :	5	Lab File ID :	A62652.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	19	
75-27-4	Bromodichloromethane	8.9	
75-25-2	Bromoform	40	
74-83-9	Bromomethane	13	
75-15-0	Carbon Disulfide	11	
56-23-5	Carbon Tetrachloride	55	
108-90-7	Chlorobenzene	46	
75-00-3	Chloroethane	9.1	
67-66-3	Chloroform	13	
74-87-3	Chloromethane	12	
110-82-7	Cyclohexane	14	
124-48-1	Dibromochloromethane	47	
74-95-3	Dibromomethane	9.8	
75-71-8	Dichlorodifluoromethane	9.1	
100-41-4	Ethylbenzene	44	
106-93-4	Ethylene DiBromide	44	
76-13-1	Freon 113	17	
87-68-3	Hexachlorobutadiene	41	
98-82-8	Isopropylbenzene	48	
79-20-9	Methyl Acetate	66	
108-87-2	Methylcyclohexane	14	
75-09-2	Methylene Chloride	14	
91-20-3	Naphthalene	43	
135-98-8	Sec-Butylbenzene	49	
100-42-5	Styrene	45	
127-18-4	Tetrachloroethylene	55	
108-88-3	Toluene	11	
79-01-6	Trichloroethene	40	
75-69-4	Trichlorofluoromethane	14	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MS
Sample Volume :	5	Lab File ID :	A62652.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	6.3	
75-01-4	Vinyl Chloride	13	
156-59-2	cis-1,2-Dichloroethene	14	
10061-01-5	cis-1,3-Dichloropropene	9.7	
136777-61-2	m,p-Xylene	94	
104-51-8	n-Butylbenzene	46	
103-65-1	n-Propylbenzene	47	
95-47-6	o-Xylene	46	
98-06-6	tert-Butylbenzene	50	
1634-04-4	tert-butyl methyl ether	13	
156-60-5	trans-1,2-dichloroethene	14	
10061-02-6	trans-1,3-dichloropropene	8.6	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MSD
Sample Volume :	5	Lab File ID :	A62654.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	
71-55-6	1,1,1-Trichloroethane	67	
79-34-5	1,1,2,2-Tetrachloroethane	46	
79-00-5	1,1,2-Trichloroethane	50	
75-34-3	1,1-Dichloroethane	58	
75-35-4	1,1-Dichloroethene	60	
563-58-6	1,1-Dichloropropene	55	
87-61-6	1,2,3-Trichlorobenzene	54	
96-18-4	1,2,3-Trichloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	55	
96-12-8	1,2-Dibromo-3-Chloropropane	40	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	56	
541-73-1	1,3-Dichlorobenzene	59	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	58	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	94	
95-49-8	2-Chlorotoluene	59	
591-78-6	2-Hexanone	75	
106-43-4	4-Chlorotoluene	58	
99-87-6	4-Isopropyltoluene	62	
108-10-1	4-Methyl-2-Pentanone	74	
67-64-1	Acetone	96	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	56	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MSD
Sample Volume :	5	Lab File ID :	A62654.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	61	
75-27-4	Bromodichloromethane	49	
75-25-2	Bromoform	47	
74-83-9	Bromomethane	74	
75-15-0	Carbon Disulfide	50	
56-23-5	Carbon Tetrachloride	64	
108-90-7	Chlorobenzene	54	
75-00-3	Chloroethane	48	
67-66-3	Chloroform	58	
74-87-3	Chloromethane	58	
110-82-7	Cyclohexane	61	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	52	
75-71-8	Dichlorodifluoromethane	42	
100-41-4	Ethylbenzene	52	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	78	
87-68-3	Hexachlorobutadiene	55	
98-82-8	Isopropylbenzene	58	
79-20-9	Methyl Acetate	61	
108-87-2	Methylcyclohexane	63	
75-09-2	Methylene Chloride	55	
91-20-3	Naphthalene	52	
135-98-8	Sec-Butylbenzene	59	
100-42-5	Styrene	52	
127-18-4	Tetrachloroethylene	60	
108-88-3	Toluene	57	
79-01-6	Trichloroethene	54	
75-69-4	Trichlorofluoromethane	77	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MSD
Sample Volume :	5	Lab File ID :	A62654.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	28	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	56	
10061-01-5	cis-1,3-Dichloropropene	40	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	56	
103-65-1	n-Propylbenzene	58	
95-47-6	o-Xylene	54	
98-06-6	tert-Butylbenzene	60	
1634-04-4	tert-butyl methyl ether	55	
156-60-5	trans-1,2-dichloroethene	62	
10061-02-6	trans-1,3-dichloropropene	46	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB08-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-013-022-1/3
Sample Volume :	5	Lab File ID :	A62578.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB08-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-013-022-1/3
Sample Volume :	5	Lab File ID :	A62578.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.7	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB08-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-013-022-1/3
Sample Volume :	5	Lab File ID :	A62578.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-014-025-1/3
Sample Volume :	5	Lab File ID :	A62580.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-014-025-1/3
Sample Volume :	5	Lab File ID :	A62580.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.8	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-014-025-1/3
Sample Volume :	5	Lab File ID :	A62580.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-015-028-1/3
Sample Volume :	5	Lab File ID :	A62582.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-015-028-1/3
Sample Volume :	5	Lab File ID :	A62582.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-015-028-1/3
Sample Volume :	5	Lab File ID :	A62582.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903098

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108893	75	19 *	7 *	84
BLK108893	92	91	100	120
OU1-16GW10-0309	90	102	97	117
OU1-16GW11-0309	92	88	99	118
OU1-52GW46-0309	92	93	99	118
OU1-52GW46P-0309	92	99	101	111
OU1-MW53-0309	93	92	103	125
OU1-MW53P-0309	91	90	99	118
OU1-MW59-0309	95	90	99	119
OU1-TB08-0309	92	92	102	115
OU1-TB09-0309	94	91	98	118
OU1-TB10-0309	90	91	102	115

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903098

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108899	101	93	103	122
BLK108899	91	88	96	116
OU1-52GW61-0309	92	90	101	119
OU1-52GW62-0309	95	94	103	124
OU1-MW55-0309	91	90	99	120
OU1-N4GW07-0309	92	93	100	118
OU1-N4GW09-0309	94	92	100	119

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903098

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108905	104	99	100	118
BLK108905	96	94	102	111
OU1-16GW11-0309DLMS	103	98	103	116
OU1-16GW11-0309DLMSD	102	100	102	119
OU1-52GW46-0309DL	85	94	107	95
OU1-52GW46P-0309DL	96	97	100	113
OU1-MW53-0309DL	95	95	100	110
OU1-MW53P-0309DL	95	97	101	108
OU1-N4GW09-0309MS	91	20 *	95	109
OU1-N4GW09-0309MSD	104	100	102	116

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-002-040-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1,2-Tetrachloroethane	500	500	0.0	490	500	98	100	2	25	80-130
1,1,1-Trichloroethane	500	500	0.0	670	680	134 *	136 *	1	25	65-130
1,1,2,2-Tetrachloroethane	500	500	0.0	460	520	92	104	12	25	65-130
1,1,2-Trichloroethane	500	500	0.0	490	500	96	100	4	25	75-125
1,1-Dichloroethane	500	500	0.0	600	610	120	122	2	25	70-135
1,1-Dichloroethene	500	500	0.0	610	630	122	126	3	25	70-130
1,1-Dichloropropene	500	500	0.0	540	560	108	112	4	25	75-130
1,2,3-Trichlorobenzene	500	500	0.0	530	600	106	120	12	25	55-140
1,2,3-Trichloropropane	500	500	0.0	490	540	98	108	10	25	75-125
1,2,4-Trichlorobenzene	500	500	0.0	550	600	110	120	9	25	65-135
1,2,4-Trimethylbenzene	500	500	0.0	560	580	112	116	4	25	75-130
1,2-Dibromo-3-Chloropropane	500	500	0.0	440	500	88	100	13	25	50-130
1,2-Dichlorobenzene	500	500	0.0	580	610	116	122 *	5	25	70-120
1,2-Dichloroethane	500	500	0.0	500	540	100	108	8	25	70-130
1,2-Dichloropropane	500	500	0.0	440	460	88	92	4	25	75-125
1,3,5-trimethylbenzene	500	500	0.0	560	590	112	118	5	25	75-130
1,3-Dichlorobenzene	500	500	0.0	580	610	116	122	5	25	75-125
1,3-Dichloropropane	500	500	0.0	460	470	92	94	2	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 18 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-002-040-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,4-Dichlorobenzene	500	500	0.0	570	610	114	122	7	25	75-125
2,2-Dichloropropane	500	500	0.0	580	590	116	118	2	25	70-135
2-Butanone	1000	1000	0.0	970	1100	97	110	13	25	30-150
2-Chlorotoluene	500	500	0.0	600	610	120	122	2	25	75-125
2-Hexanone	1000	1000	0.0	770	850	77	85	10	25	55-130
4-Chlorotoluene	500	500	0.0	580	600	116	120	3	25	75-130
4-Isopropyltoluene	500	500	0.0	620	650	124	130	5	25	75-130
4-Methyl-2-Pentanone	1000	1000	0.0	770	840	77	84	9	25	60-135
Acetone	1000	1000	0.0	1200	1200	120	120	0	25	40-140
Benzene	500	500	0.0	470	490	94	98	4	25	80-120
Bromobenzene	500	500	0.0	560	580	112	116	4	25	75-125
Bromochloromethane	500	500	0.0	600	650	120	130	8	25	65-130
Bromodichloromethane	500	500	0.0	480	500	96	100	4	25	75-120
Bromoform	500	500	0.0	460	490	92	98	6	25	70-130
Bromomethane	500	500	0.0	780	820	156 *	164 *	5	25	30-145
Carbon Disulfide	500	500	0.0	510	530	102	106	4	25	35-160
Carbon Tetrachloride	500	500	0.0	660	660	132	132	0	25	65-140
Chlorobenzene	500	500	0.0	530	550	106	110	4	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 18 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-002-040-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Chloroethane	500	500	0.0	540	550	108	110	2	25	60-135
Chloroform	500	500	0.0	580	590	116	118	2	25	65-135
Chloromethane	500	500	0.0	590	680	118	138 *	16	25	40-125
Cyclohexane	500	500	0.0	610	620	122 *	124 *	2	25	50-120
Dibromochloromethane	500	500	0.0	510	520	102	104	2	25	60-135
Dibromomethane	500	500	0.0	500	530	100	106	6	25	75-125
Dichlorodifluoromethane	500	500	0.0	460	430	92	86	7	25	30-155
Ethylbenzene	500	500	0.0	530	540	106	108	2	25	75-125
Ethylene DiBromide	500	500	0.0	480	500	96	100	4	25	80-120
Freon 113	500	500	0.0	780	780	156 *	156 *	0	25	70-120
Hexachlorobutadiene	500	500	0.0	550	580	110	116	5	25	50-140
Isopropylbenzene	500	500	0.0	570	600	114	120	5	25	75-125
Methyl Acetate	500	500	0.0	630	720	126 *	144 *	13	25	50-120
Methylcyclohexane	500	500	0.0	630	630	126 *	126 *	0	25	50-120
Methylene Chloride	500	500	0.0	550	560	110	112	2	25	55-140
Naphthalene	500	500	0.0	520	570	104	114	9	25	55-140
Sec-Butylbenzene	500	500	0.0	590	610	118	122	3	25	70-125
Styrene	500	500	0.0	530	540	106	110	4	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 18 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-002-040-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Tetrachloroethylene	500	500	0.0	610	600	122	122	0	25	45-150
Toluene	500	500	0.0	570	600	114	120	5	25	75-120
Trichloroethene	500	500	210	500	510	58 *	60 *	3	25	70-125
Trichlorofluoromethane	500	500	0.0	840	880	168 *	176 *	5	25	60-145
Vinyl Acetate	500	500	0.0	320	380	64	76	17	25	36-133
Vinyl Chloride	500	500	0.0	480	500	96	100	4	25	50-145
cis-1,2-Dichloroethene	500	500	0.0	560	560	110	112	2	25	70-125
cis-1,3-Dichloropropene	500	500	0.0	400	420	80	84	5	25	70-130
m,p-Xylene	1000	1000	0.0	1100	1100	110	110	0	25	75-130
n-Butylbenzene	500	500	0.0	570	610	114	122	7	25	70-135
n-Propylbenzene	500	500	0.0	570	590	114	118	3	25	70-130
o-Xylene	500	500	0.0	550	560	110	112	2	25	80-120
tert-Butylbenzene	500	500	0.0	600	610	120	122	2	25	70-130
tert-butyl methyl ether	500	500	0.0	560	580	112	116	4	25	65-125
trans-1,2-dichloroethene	500	500	0.0	620	610	124	122	2	25	60-140
trans-1,3-dichloropropene	500	500	0.0	460	480	92	96	4	25	55-140

#Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 18 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-012-049-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1,2-Tetrachloroethane	50	50	0.0	43	50	86	100	15	25	80-130
1,1,1-Trichloroethane	50	50	0.0	15	67	30 *	134 *	127 *	25	65-130
1,1,2,2-Tetrachloroethane	50	50	0.0	40	46	80	92	14	25	65-130
1,1,2-Trichloroethane	50	50	0.0	9.0	50	18 *	100	139 *	25	75-125
1,1-Dichloroethane	50	50	0.0	13	58	26 *	116	127 *	25	70-135
1,1-Dichloroethene	50	50	0.0	14	60	26 *	120	129 *	25	70-130
1,1-Dichloropropene	50	50	0.0	32	55	64 *	110	53 *	25	75-130
1,2,3-Trichlorobenzene	50	50	0.0	43	54	86	108	23	25	55-140
1,2,3-Trichloropropane	50	50	0.0	46	49	92	98	6	25	75-125
1,2,4-Trichlorobenzene	50	50	0.0	43	56	86	112	26 *	25	65-135
1,2,4-Trimethylbenzene	50	50	0.0	46	55	92	110	18	25	75-130
1,2-Dibromo-3-Chloropropane	50	50	0.0	33	40	66	80	19	25	50-130
1,2-Dichlorobenzene	50	50	0.0	50	58	100	116	15	25	70-120
1,2-Dichloroethane	50	50	0.0	37	51	74	102	32 *	25	70-130
1,2-Dichloropropane	50	50	0.0	8.4	45	17 *	90	136 *	25	75-125
1,3,5-trimethylbenzene	50	50	0.0	47	56	94	112	17	25	75-130
1,3-Dichlorobenzene	50	50	0.0	49	59	98	118	19	25	75-125
1,3-Dichloropropane	50	50	0.0	42	46	84	92	9	25	75-125

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#Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 36 Out of 70 Outside Limit
Spike Recovery : 39 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-012-049-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,4-Dichlorobenzene	50	50	0.0	50	58	100	116	15	25	75-125
2,2-Dichloropropane	50	50	0.0	13	54	26 *	108	122 *	25	70-135
2-Butanone	100	100	0.0	59	94	59	94	46 *	25	30-150
2-Chlorotoluene	50	50	0.0	52	59	104	118	13	25	75-125
2-Hexanone	100	100	0.0	82	75	82	75	9	25	55-130
4-Chlorotoluene	50	50	0.0	52	58	104	116	11	25	75-130
4-Isopropyltoluene	50	50	0.0	52	62	104	124	18	25	75-130
4-Methyl-2-Pentanone	100	100	0.0	81	74	81	74	9	25	60-135
Acetone	100	100	0.0	2.9	96	3 *	96	188 *	25	40-140
Benzene	50	50	0.0	29	48	58 *	96	49 *	25	80-120
Bromobenzene	50	50	0.0	50	56	100	112	11	25	75-125
Bromochloromethane	50	50	0.0	19	61	38 *	122	105 *	25	65-130
Bromodichloromethane	50	50	0.0	8.9	49	18 *	98	138 *	25	75-120
Bromoform	50	50	0.0	40	47	80	94	16	25	70-130
Bromomethane	50	50	0.0	13	74	26 *	148 *	140 *	25	30-145
Carbon Disulfide	50	50	0.0	11	50	22 *	100	128 *	25	35-160
Carbon Tetrachloride	50	50	0.0	56	64	110	128	15	25	65-140
Chlorobenzene	50	50	0.0	47	54	92	108	16	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 36 Out of 70 Outside Limit
Spike Recovery : 39 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-012-049-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Chloroethane	50	50	0.0	9.1	48	18 *	96	137 *	25	60-135
Chloroform	50	50	0.0	13	58	26 *	116	127 *	25	65-135
Chloromethane	50	50	0.0	13	58	26 *	116	127 *	25	40-125
Cyclohexane	50	50	0.0	14	61	28 *	122 *	125 *	25	50-120
Dibromochloromethane	50	50	0.0	48	51	94	102	8	25	60-135
Dibromomethane	50	50	0.0	9.8	52	20 *	104	135 *	25	75-125
Dichlorodifluoromethane	50	50	0.0	9.1	42	18 *	84	129 *	25	30-155
Ethylbenzene	50	50	0.0	44	52	88	104	17	25	75-125
Ethylene DiBromide	50	50	0.0	45	49	90	98	9	25	80-120
Freon 113	50	50	0.0	17	78	34 *	156 *	128 *	25	70-120
Hexachlorobutadiene	50	50	0.0	41	55	82	110	29 *	25	50-140
Isopropylbenzene	50	50	0.0	48	58	96	116	19	25	75-125
Methyl Acetate	50	50	0.0	66	61	132 *	122 *	8	25	50-120
Methylcyclohexane	50	50	0.0	14	63	28 *	126 *	127 *	25	50-120
Methylene Chloride	50	50	0.0	14	55	28 *	110	119 *	25	55-140
Naphthalene	50	50	0.0	43	52	86	104	19	25	55-140
Sec-Butylbenzene	50	50	0.0	49	59	98	118	19	25	70-125
Styrene	50	50	0.0	45	52	90	104	14	25	65-135

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Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 36 Out of 70 Outside Limit
Spike Recovery : 39 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-012-049-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Tetrachloroethylene	50	50	0.0	55	60	110	120	9	25	45-150
Toluene	50	50	0.0	11	57	22 *	114	135 *	25	75-120
Trichloroethene	50	50	2.7	40	54	75	103	31 *	25	70-125
Trichlorofluoromethane	50	50	0.0	14	77	28 *	154 *	138 *	25	60-145
Vinyl Acetate	50	50	0.0	6.3	28	13 *	56	125 *	25	36-133
Vinyl Chloride	50	50	0.0	14	47	26 *	94	113 *	25	50-145
cis-1,2-Dichloroethene	50	50	0.97	14	56	26 *	110	124 *	25	70-125
cis-1,3-Dichloropropene	50	50	0.0	9.7	40	19 *	82	125 *	25	70-130
m,p-Xylene	100	100	0.0	94	110	94	110	16	25	75-130
n-Butylbenzene	50	50	0.0	46	56	92	112	20	25	70-135
n-Propylbenzene	50	50	0.0	47	58	94	116	21	25	70-130
o-Xylene	50	50	0.0	46	54	92	108	16	25	80-120
tert-Butylbenzene	50	50	0.0	50	60	100	120	18	25	70-130
tert-butyl methyl ether	50	50	0.0	13	55	26 *	110	124 *	25	65-125
trans-1,2-dichloroethene	50	50	0.0	14	62	28 *	124	126 *	25	60-140
trans-1,3-dichloropropene	50	50	0.0	8.6	46	17 *	92	138 *	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 36 Out of 70 Outside Limit
Spike Recovery : 39 Out of 140 outside limit

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108893

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108893
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	44	88	80-130
1,1,1-Trichloroethane	50	0	13	26 *	65-130
1,1,2,2-Tetrachloroethane	50	0	26	52 *	65-130
1,1,2-Trichloroethane	50	0	7.8	16 *	75-125
1,1-Dichloroethane	50	0	42	84	70-135
1,1-Dichloroethene	50	0	25	50 *	70-130
1,1-Dichloropropene	50	0	27	54 *	75-130
1,2,3-Trichlorobenzene	50	0	36	72	55-140
1,2,3-Trichloropropane	50	0	32	64 *	75-125
1,2,4-Trichlorobenzene	50	0	30	60 *	65-135
1,2,4-Trimethylbenzene	50	0	34	68 *	75-130
1,2-Dibromo-3-Chloropropane	50	0	21	42 *	50-130
1,2-Dichlorobenzene	50	0	37	74	70-120
1,2-Dichloroethane	50	0	21	42 *	70-130
1,2-Dichloropropane	50	0	7.6	15 *	75-125
1,3,5-trimethylbenzene	50	0	34	68 *	75-130
1,3-Dichlorobenzene	50	0	40	80	75-125
1,3-Dichloropropane	50	0	40	80	75-125
1,4-Dichlorobenzene	50	0	40	80	75-125
2,2-Dichloropropane	50	0	51	102	70-135
2-Butanone	100	0	37	37	30-150
2-Chlorotoluene	50	0	1.6	3 *	75-125
2-Hexanone	100	0	59	59	55-130
4-Chlorotoluene	50	0	41	82	75-130
4-Isopropyltoluene	50	0	37	74 *	75-130

* Values Outside of QC Limits.

Spike recovery : 14 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108893

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108893
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	61	61	60-135
Acetone	100	0	50	50	40-140
Benzene	50	0	23	46 *	80-120
Bromobenzene	50	0	42	84	75-125
Bromochloromethane	50	0	59	118	65-130
Bromodichloromethane	50	0	1.0	0 *	75-120
Bromoform	50	0	33	66 *	70-130
Bromomethane	50	0	73	146 *	30-145
Carbon Disulfide	50	0	45	90	35-160
Carbon Tetrachloride	50	0	10	20 *	65-140
Chlorobenzene	50	0	45	90	80-120
Chloroethane	50	0	29	58 *	60-135
Chloroform	50	0	38	76	65-135
Chloromethane	50	0	12	24 *	40-125
Cyclohexane	50	0	29	58	50-120
Dibromochloromethane	50	0	48	96	60-135
Dibromomethane	50	0	7.8	16 *	75-125
Dichlorodifluoromethane	50	0	10	20 *	30-155
Ethylbenzene	50	0	42	84	75-125
Ethylene DiBromide	50	0	37	74 *	80-120
Freon 113	50	0	120	240 *	70-130
Hexachlorobutadiene	50	0	29	58	50-140
Isopropylbenzene	50	0	38	76	75-125
Methyl Acetate	50	0	1.0	0 *	50-120
Methylcyclohexane	50	0	12	24 *	50-120

* Values Outside of QC Limits.

Spike recovery : 13 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108893

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108893
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	4.4	9 *	55-140
Naphthalene	50	0	31	62	55-140
Sec-Butylbenzene	50	0	33	66 *	70-125
Styrene	50	0	40	80	65-135
Tetrachloroethylene	50	0	71	142	45-150
Toluene	50	0	10	20 *	75-120
Trichloroethene	50	0	14	28 *	70-125
Trichlorofluoromethane	50	0	88	176 *	60-145
Vinyl Acetate	50	0	11	22 *	41-139
Vinyl Chloride	50	0	23	46 *	50-145
cis-1,2-Dichloroethene	50	0	54	108	70-125
cis-1,3-Dichloropropene	50	0	9.3	19 *	70-130
m,p-Xylene	100	0	88	88	75-130
n-Butylbenzene	50	0	30	60 *	70-135
n-Propylbenzene	50	0	37	74	70-130
o-Xylene	50	0	40	80	80-120
tert-Butylbenzene	50	0	36	72	70-130
tert-butyl methyl ether	50	0	5.2	10 *	65-125
trans-1,2-dichloroethene	50	0	54	108	60-140
trans-1,3-dichloropropene	50	0	7.8	16 *	55-140

* Values Outside of QC Limits.

Spike recovery : 11 out of 20 outside limits

SW8260LL

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108899

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108899
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	53	106	80-130
1,1,1-Trichloroethane	50	0	61	122	65-130
1,1,2,2-Tetrachloroethane	50	0	42	84	65-130
1,1,2-Trichloroethane	50	0	50	100	75-125
1,1-Dichloroethane	50	0	57	114	70-135
1,1-Dichloroethene	50	0	54	108	70-130
1,1-Dichloropropene	50	0	47	94	75-130
1,2,3-Trichlorobenzene	50	0	57	114	55-140
1,2,3-Trichloropropane	50	0	45	90	75-125
1,2,4-Trichlorobenzene	50	0	58	116	65-135
1,2,4-Trimethylbenzene	50	0	51	102	75-130
1,2-Dibromo-3-Chloropropane	50	0	40	80	50-130
1,2-Dichlorobenzene	50	0	59	118	70-120
1,2-Dichloroethane	50	0	48	96	70-130
1,2-Dichloropropane	50	0	42	84	75-125
1,3,5-trimethylbenzene	50	0	51	102	75-130
1,3-Dichlorobenzene	50	0	58	116	75-125
1,3-Dichloropropane	50	0	45	90	75-125
1,4-Dichlorobenzene	50	0	60	120	75-125
2,2-Dichloropropane	50	0	51	102	70-135
2-Butanone	100	0	96	96	30-150
2-Chlorotoluene	50	0	58	116	75-125
2-Hexanone	100	0	68	68	55-130
4-Chlorotoluene	50	0	56	112	75-130
4-Isopropyltoluene	50	0	57	114	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108899

Lab Name : GPL Laboratories
Contract. : CTO-059 386383.FI.FQ.FC
Lab Code : GPL
SDG NO : 903098
Matrix : WATER
Lab Sample ID : BKS108899
Method : SW8260LL
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	67	67	60-135
Acetone	100	0	110	110	40-140
Benzene	50	0	44	88	80-120
Bromobenzene	50	0	59	118	75-125
Bromochloromethane	50	0	69	138 *	65-130
Bromodichloromethane	50	0	45	90	75-120
Bromoform	50	0	48	96	70-130
Bromomethane	50	0	75	150 *	30-145
Carbon Disulfide	50	0	50	100	35-160
Carbon Tetrachloride	50	0	61	122	65-140
Chlorobenzene	50	0	52	104	80-120
Chloroethane	50	0	47	94	60-135
Chloroform	50	0	54	108	65-135
Chloromethane	50	0	62	124	40-125
Cyclohexane	50	0	51	102	50-120
Dibromochloromethane	50	0	53	106	60-135
Dibromomethane	50	0	49	98	75-125
Dichlorodifluoromethane	50	0	46	92	30-155
Ethylbenzene	50	0	46	92	75-125
Ethylene DiBromide	50	0	46	92	80-120
Freon 113	50	0	64	128	70-130
Hexachlorobutadiene	50	0	53	106	50-140
Isopropylbenzene	50	0	52	104	75-125
Methyl Acetate	50	0	59	118	50-120
Methylcyclohexane	50	0	52	104	50-120

* Values Outside of QC Limits.

Spike recovery : 2 out of 25 outside limits

SW8260LL

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108899

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108899
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	53	106	55-140
Naphthalene	50	0	53	106	55-140
Sec-Butylbenzene	50	0	51	102	70-125
Styrene	50	0	49	98	65-135
Tetrachloroethylene	50	0	63	126	45-150
Toluene	50	0	51	102	75-120
Trichloroethene	50	0	44	88	70-125
Trichlorofluoromethane	50	0	75	150 *	60-145
Vinyl Acetate	50	0	35	70	41-139
Vinyl Chloride	50	0	47	94	50-145
cis-1,2-Dichloroethene	50	0	52	104	70-125
cis-1,3-Dichloropropene	50	0	39	78	70-130
m,p-Xylene	100	0	97	97	75-130
n-Butylbenzene	50	0	48	96	70-135
n-Propylbenzene	50	0	49	98	70-130
o-Xylene	50	0	51	102	80-120
tert-Butylbenzene	50	0	56	112	70-130
tert-butyl methyl ether	50	0	56	112	65-125
trans-1,2-dichloroethene	50	0	58	116	60-140
trans-1,3-dichloropropene	50	0	45	90	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108905

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108905
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	48	96	80-130
1,1,1-Trichloroethane	50	0	60	120	65-130
1,1,2,2-Tetrachloroethane	50	0	45	90	65-130
1,1,2-Trichloroethane	50	0	49	98	75-125
1,1-Dichloroethane	50	0	57	114	70-135
1,1-Dichloroethene	50	0	55	110	70-130
1,1-Dichloropropene	50	0	51	102	75-130
1,2,3-Trichlorobenzene	50	0	55	110	55-140
1,2,3-Trichloropropane	50	0	44	88	75-125
1,2,4-Trichlorobenzene	50	0	56	112	65-135
1,2,4-Trimethylbenzene	50	0	54	108	75-130
1,2-Dibromo-3-Chloropropane	50	0	42	84	50-130
1,2-Dichlorobenzene	50	0	58	116	70-120
1,2-Dichloroethane	50	0	50	100	70-130
1,2-Dichloropropane	50	0	43	86	75-125
1,3,5-trimethylbenzene	50	0	54	108	75-130
1,3-Dichlorobenzene	50	0	57	114	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	57	114	75-125
2,2-Dichloropropane	50	0	54	108	70-135
2-Butanone	100	0	91	91	30-150
2-Chlorotoluene	50	0	56	112	75-125
2-Hexanone	100	0	71	71	55-130
4-Chlorotoluene	50	0	54	108	75-130
4-Isopropyltoluene	50	0	59	118	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108905

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108905
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	71	71	60-135
Acetone	100	0	120	120	40-140
Benzene	50	0	44	88	80-120
Bromobenzene	50	0	56	112	75-125
Bromochloromethane	50	0	59	118	65-130
Bromodichloromethane	50	0	45	90	75-120
Bromoform	50	0	45	90	70-130
Bromomethane	50	0	75	150 *	30-145
Carbon Disulfide	50	0	49	98	35-160
Carbon Tetrachloride	50	0	59	118	65-140
Chlorobenzene	50	0	52	104	80-120
Chloroethane	50	0	51	102	60-135
Chloroform	50	0	54	108	65-135
Chloromethane	50	0	62	124	40-125
Cyclohexane	50	0	54	108	50-120
Dibromochloromethane	50	0	51	102	60-135
Dibromomethane	50	0	47	94	75-125
Dichlorodifluoromethane	50	0	46	92	30-155
Ethylbenzene	50	0	50	100	75-125
Ethylene DiBromide	50	0	48	96	80-120
Freon 113	50	0	65	130	70-130
Hexachlorobutadiene	50	0	54	108	50-140
Isopropylbenzene	50	0	54	108	75-125
Methyl Acetate	50	0	53	106	50-120
Methylcyclohexane	50	0	53	106	50-120

* Values Outside of QC Limits.

Spike recovery : 1 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108905

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108905
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	52	104	55-140
Naphthalene	50	0	49	98	55-140
Sec-Butylbenzene	50	0	54	108	70-125
Styrene	50	0	53	106	65-135
Tetrachloroethylene	50	0	57	114	45-150
Toluene	50	0	55	110	75-120
Trichloroethene	50	0	47	94	70-125
Trichlorofluoromethane	50	0	80	160 *	60-145
Vinyl Acetate	50	0	36	72	41-139
Vinyl Chloride	50	0	52	104	50-145
cis-1,2-Dichloroethene	50	0	54	108	70-125
cis-1,3-Dichloropropene	50	0	40	80	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	53	106	70-135
n-Propylbenzene	50	0	54	108	70-130
o-Xylene	50	0	52	104	80-120
tert-Butylbenzene	50	0	56	112	70-130
tert-butyl methyl ether	50	0	53	106	65-125
trans-1,2-dichloroethene	50	0	56	112	60-140
trans-1,3-dichloropropene	50	0	46	92	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	A62572.D	SDG NO :	903098
Date Analyzed	03/26/2009	Lab Sample ID :	BLK108893
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:33

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108893	BKS108893	A62570.D	10:52
OU1-16GW10-0309	903098-005-007-1/3	A62592.D	18:52
OU1-16GW11-0309	903098-002-040-1/9	A62586.D	16:49
OU1-52GW46-0309	903098-001-037-1/3	A62584.D	16:08
OU1-52GW46P-0309	903098-004-004-1/3	A62590.D	18:11
OU1-MW53-0309	903098-006-010-1/3	A62594.D	19:33
OU1-MW53P-0309	903098-007-013-1/3	A62596.D	20:14
OU1-MW59-0309	903098-003-001-1/3	A62588.D	17:30
OU1-TB08-0309	903098-013-022-1/3	A62578.D	13:55
OU1-TB09-0309	903098-014-025-1/3	A62580.D	14:47
OU1-TB10-0309	903098-015-028-1/3	A62582.D	15:28

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	A62606.D	SDG NO :	903098
Date Analyzed	03/26/2009	Lab Sample ID :	BLK108899
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	23:36

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108899	BKS108899	A62604.D	22:56
OU1-52GW61-0309	903098-010-031-1/3	A62612.D	01:38
OU1-52GW62-0309	903098-009-019-1/3	A62610.D	00:57
OU1-MW55-0309	903098-008-016-1/3	A62608.D	00:17
OU1-N4GW07-0309	903098-011-034-1/3	A62614.D	02:18
OU1-N4GW09-0309	903098-012-049-1/9	A62616.D	02:59

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	A62638.D	SDG NO :	903098
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108905
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:46

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108905	BKS108905	A62636.D	11:06
OU1-16GW11-0309DLMS	903098-002-040-1/9MS	A62648.D	15:33
OU1-16GW11-0309DLMSD	903098-002-040-1/9MSD	A62650.D	16:13
OU1-52GW46-0309DL	903098-001-038-2/3	A62640.D	12:51
OU1-52GW46P-0309DL	903098-004-005-2/3	A62642.D	13:31
OU1-MW53-0309DL	903098-006-011-2/3	A62644.D	14:12
OU1-MW53P-0309DL	903098-007-014-2/3	A62646.D	14:52
OU1-N4GW09-0309MS	903098-012-049-1/9MS	A62652.D	16:54
OU1-N4GW09-0309MSD	903098-012-049-1/9MSD	A62654.D	17:34

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62566.D BFB Injection Date : 03/26/2009 BFB Injection Time : 08:47

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.3	
75	30.0 - 60.0% of mass 95	52.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	1.6	(1.6)1
174	50.0 - 120.0% of mass 95	97.0	
175	5.0 - 9.0% of mass 174	8.3	(8.5)1
176	95.0 - 101.0% of mass 174	93.5	(96.4)1
177	5.0 - 9.0% of mass 176	6.6	(7.1)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62568.D	03/26/2009	09:41
2	BKS108893	BKS108893	A62570.D	03/26/2009	10:52
3	BLK108893	BLK108893	A62572.D	03/26/2009	11:33
4	OU1-TB08-0309	903098-013-022-1/3	A62578.D	03/26/2009	13:55
5	OU1-TB09-0309	903098-014-025-1/3	A62580.D	03/26/2009	14:47
6	OU1-TB10-0309	903098-015-028-1/3	A62582.D	03/26/2009	15:28
7	OU1-52GW46-0309	903098-001-037-1/3	A62584.D	03/26/2009	16:08
8	OU1-16GW11-0309	903098-002-040-1/9	A62586.D	03/26/2009	16:49
9	OU1-MW59-0309	903098-003-001-1/3	A62588.D	03/26/2009	17:30
10	OU1-52GW46P-0309	903098-004-004-1/3	A62590.D	03/26/2009	18:11
11	OU1-16GW10-0309	903098-005-007-1/3	A62592.D	03/26/2009	18:52
12	OU1-MW53-0309	903098-006-010-1/3	A62594.D	03/26/2009	19:33
13	OU1-MW53P-0309	903098-007-013-1/3	A62596.D	03/26/2009	20:14

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62600.D BFB Injection Date : 03/26/2009 BFB Injection Time : 21:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.7	
75	30.0 - 60.0% of mass 95	52.4	
95	Base peak. 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	1.9	(1.9)1
174	50.0 - 120.0% of mass 95	98.7	
175	5.0 - 9.0% of mass 174	8.4	(8.5)1
176	95.0 - 101.0% of mass 174	97.1	(98.3)1
177	5.0 - 9.0% of mass 176	7.3	(7.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62602.D	03/26/2009	22:16
2	BKS108899	BKS108899	A62604.D	03/26/2009	22:56
3	BLK108899	BLK108899	A62606.D	03/26/2009	23:36
4	OU1-MW55-0309	903098-008-016-1/3	A62608.D	03/27/2009	00:17
5	OU1-52GW62-0309	903098-009-019-1/3	A62610.D	03/27/2009	00:57
6	OU1-52GW61-0309	903098-010-031-1/3	A62612.D	03/27/2009	01:38
7	OU1-N4GW07-0309	903098-011-034-1/3	A62614.D	03/27/2009	02:18
8	OU1-N4GW09-0309	903098-012-049-1/9	A62616.D	03/27/2009	02:59

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62630.D BFB Injection Date : 03/27/2009 BFB Injection Time : 08:38

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.1	
75	30.0 - 60.0% of mass 95	50.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	1.6	(1.7)1
174	50.0 - 120.0% of mass 95	95.2	
175	5.0 - 9.0% of mass 174	8.2	(8.6)1
176	95.0 - 101.0% of mass 174	94.1	(98.8)1
177	5.0 - 9.0% of mass 176	6.4	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62634.D	03/27/2009	10:25
2	BKS108905	BKS108905	A62636.D	03/27/2009	11:06
3	BLK108905	BLK108905	A62638.D	03/27/2009	11:46
4	OU1-52GW46-0309DL	903098-001-038-2/3	A62640.D	03/27/2009	12:51
5	OU1-52GW46P-0309DL	903098-004-005-2/3	A62642.D	03/27/2009	13:31
6	OU1-MW53-0309DL	903098-006-011-2/3	A62644.D	03/27/2009	14:12
7	OU1-MW53P-0309DL	903098-007-014-2/3	A62646.D	03/27/2009	14:52
8	OU1-16GW11-0309DLMS	903098-002-040-1/9MS	A62648.D	03/27/2009	15:33
9	OU1-16GW11-0309DLMSD	903098-002-040-1/9MSD	A62650.D	03/27/2009	16:13
10	OU1-N4GW09-0309MS	903098-012-049-1/9MS	A62652.D	03/27/2009	16:54
11	OU1-N4GW09-0309MSD	903098-012-049-1/9MSD	A62654.D	03/27/2009	17:34

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62568.D Date Analyzed: 03/26/2009 Time Analyzed: 09:41

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	270471	04.69	315637	07.78	303343	04.56
UPPER LIMIT	540942	05.19	631274	08.28	606686	05.06
LOWER LIMIT	135236	04.19	157819	07.28	151672	04.06
Client Sample						
BKS108893	1485089*	05.00	284924	07.88	1283356*	04.86
BLK108893	241357	04.69	259746	07.78	269319	04.56
OU1-16GW10-0309	254979	04.69	271183	07.78	276931	04.56
OU1-16GW11-0309	250475	04.69	263906	07.78	271116	04.57
OU1-52GW46-0309	233827	04.69	252227	07.78	257748	04.56
OU1-52GW46P-0309	311594	04.69	314857	07.78	338553	04.57
OU1-MW53-0309	213117	04.69	229183	07.78	228541	04.56
OU1-MW53P-0309	249540	04.69	262751	07.78	271645	04.57
OU1-MW59-0309	242601	04.68	255303	07.78	261611	04.56
OU1-TB08-0309	254791	04.69	272156	07.78	274495	04.56
OU1-TB09-0309	248779	04.69	266301	07.78	269403	04.56
OU1-TB10-0309	249772	04.69	269939	07.78	268912	04.57

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62602.D Date Analyzed: 03/26/2009 Time Analyzed: 22:16

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	250888	04.69	287510	07.78	274068	04.56
UPPER LIMIT	501776	05.19	575020	08.28	548136	05.06
LOWER LIMIT	125444	04.19	143755	07.28	137034	04.06
Client Sample						
BKS108899	274515	04.69	304718	07.78	296713	04.56
BLK108899	271000	04.69	278286	07.78	292461	04.56
OU1-52GW61-0309	248559	04.69	256166	07.78	263414	04.56
OU1-52GW62-0309	197100	04.68	213789	07.78	217379	04.56
OU1-MW55-0309	243534	04.69	251037	07.78	257102	04.56
OU1-N4GW07-0309	233634	04.69	250923	07.78	252090	04.56
OU1-N4GW09-0309	229570	04.69	240402	07.78	249391	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62634.D Date Analyzed: 03/27/2009 Time Analyzed: 10:25

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	501933	04.69	502179	07.79	552639	04.56
UPPER LIMIT	1003866	05.19	1004358	08.29	1105278	05.06
LOWER LIMIT	250967	04.19	251090	07.29	276320	04.06
Client Sample						
BKS108905	468985	04.69	477046	07.78	520085	04.56
BLK108905	372311	04.69	358557	07.78	402942	04.56
OU1-16GW11-0309DLMS	473085	04.69	489139	07.78	522437	04.56
OU1-16GW11-0309DLMSD	450263	04.69	475206	07.79	505520	04.56
OU1-52GW46-0309DL	502426	04.69	463937	07.78	537499	04.56
OU1-52GW46P-0309DL	400654	04.69	377152	07.78	438274	04.56
OU1-MW53-0309DL	357814	04.68	345511	07.78	394765	04.56
OU1-MW53P-0309DL	396136	04.69	378812	07.78	433551	04.56
OU1-N4GW09-0309MS	2214970*	04.67	449735	07.77	2007104*	04.55
OU1-N4GW09-0309MSD	456303	04.69	483873	07.79	514652	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: GPL LABORATORIES, LLC. Contract:

Lab Code: GPLL Case No.: SAS No.: SDG No.:

Lab File ID: A62206.D BFB Injection Date: 03/10/09

Instrument ID: HP#A BFB Injection Time: 07:55

GC Column: RTX_624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	51.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.1)1
174	50.0 - 120.0% of mass 95	78.5
175	4.0 - 9.0% of mass 174	5.9 (7.5)1
176	93.0 - 101.0% of mass 174	79.2 (100.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL01	CAL01	A62208.D	03/10/09	09:10
02	CAL05	CAL05	A62210.D	03/10/09	09:51
03	CAL20	CAL20	A62212.D	03/10/09	11:24
04	CAL50	CAL50	A62214.D	03/10/09	12:04
05	CAL100	CAL100	A62216.D	03/10/09	13:09
06	CAL200	CAL200	A62220.D	03/10/09	14:43
07	ICV50	BKS/ICV50	A62242.D	03/11/09	12:15

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009
Response Via : Initial Calibration

Calibration Files
1 =A62208.D 5 =A62210.D 20 =A62212.D 50 =A62214.D 100 =A62216.D
200 =A62220.D

		Compound	1	5	20	50	100	200	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluo...	0.120	0.111	0.119	0.086	0.118	0.123	0.113	12.08
3)		Chloromethane	0.130	0.128	0.142	0.106	0.203		0.142	25.94
4)		Vinyl chloride	0.134	0.140	0.199	0.167	0.224	0.235	0.183	~~23.46~~ r^2=0.99
5)		Bromomethane	0.070	0.054	0.062	0.055	0.080		0.064	17.43
6)		Chloroethane	0.167	0.122	0.140	0.117	0.143	0.163	0.142	14.33
7)		Trichlorofluor...	0.169	0.246	0.270	0.217	0.296		0.239	20.54
8)		Ethyl Ether	0.184	0.185	0.175	0.149	0.191	0.230	0.186	14.22
9)		Freon 113	0.186	0.161	0.176	0.130	0.186	0.179	0.170	12.63
10)		Acrolein		0.055	0.035	0.030	0.038	0.058	0.043	~~28.65~~ r^2=0.997
11)		Tert-Butyl alc...	0.026	0.015	0.013	0.012	0.015	0.037	0.020	~~50.87~~ r^2=0.978
12)		1,1-Dichloroet...	0.203	0.187	0.176	0.140	0.189	0.208	0.184	13.36
13)		Iodomethane	0.081	0.109	0.177	0.181	0.257	0.182	0.164	37.82
14)		Acetonitrile	0.068	0.068	0.088	0.088	0.133	0.131	0.096	~~30.66~~ r^2=0.994
15)		Methylene chlo...	0.408	0.270	0.218	0.182	0.225	0.236	0.257	~~30.95~~ r^2=0.991
16)		Trans-1,2-dich...	0.232	0.181	0.191	0.166	0.217	0.212	0.200	12.32
17)		Isopropyl ether	0.850		0.767	0.665	0.845	0.895	0.805	11.26
18)		1,1-Dichloroet...	0.342	0.335	0.343	0.313	0.402	0.401	0.356	10.34
19)		Acetone	0.172	0.075	0.062	0.056	0.068	0.117	0.092	~~48.81~~ r^2=0.99
20)		Methyl Acetate	0.271	0.158	0.133	0.151	0.158	0.384	0.209	~~47.13~~ r^2=0.996
21)		MTBE	0.578	0.576	0.560	0.483	0.627	0.649	0.579	10.01
22)		Carbon disulfide	1.523	0.763	0.587	0.470	0.611	0.629	0.764	~~50.20~~ r^2=0.97
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile	0.103	0.070	0.061	0.054	0.067	0.097	0.075	~~26.82~~ r^2=0.99
25)		Chloroprene	0.379	0.349		0.270	0.372	0.333	0.341	12.75
26)	T	n-Heptane	0.233	0.164	0.181	0.154	0.163	0.148	0.174	17.86
27)		2,2-Dichloropr...	0.302	0.253	0.292	0.265	0.324	0.309	0.291	9.30
28)		Cis-1,2-dichlo...	0.289	0.221	0.221	0.207	0.248	0.241	0.238	12.28
29)		1,2-dichloroet...		0.211	0.214	0.190	0.235	0.236	0.217	8.87
30)		Propionitrile	0.043	0.032	0.027	0.027	0.030		0.032	20.48
31)		Bromochloromet...	0.120		0.106	0.105	0.120	0.128	0.115	8.57
32)		Tetrahydrofuran	0.064	0.054	0.051	0.050	0.056	0.082	0.059	20.48
33)		Chloroform	0.488	0.356	0.351	0.347	0.418	0.460	0.403	15.18
34)		Cyclohexane	0.624	0.344	0.365	0.320	0.372	0.360	0.398	~~28.35~~ r^2=0.9
35)		1,1,1-Trichlor...	0.302	0.283	0.291	0.299	0.329	0.339	0.307	7.22
36)		Carbon tetrach...	0.150	0.170	0.251	0.261	0.291	0.270	0.232	~~24.81~~ r^2=0.99
37)		Methylcyclohexane	0.373	0.314	0.345	0.327	0.363	0.328	0.342	6.72
38)		Isobutyl Alcohol	0.021	0.014	0.017	0.014	0.015	0.014	0.016	16.89
39)	SS	1,2-Dichloroet...	0.274	0.278	0.271	0.267	0.271	0.296	0.276	3.84
40)		1,4-Difluorobenzene	----------ISTD----------							
41)		2-Butanone	0.276	0.183	0.150	0.139	0.165	0.234	0.191	~~27.74~~ r^2=0.99
42)		1,1-Dichloropr...	0.318	0.297	0.314	0.325	0.352	0.348	0.326	6.44

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

43)		Vinyl Acetate	0.355	0.307		0.299	0.425	0.399	0.357	15.52
44)		Benzene	1.162	1.016	0.997	1.042	1.084	1.166	1.078	6.77
45)		1,2-Dichloroet...	0.321	0.321	0.325	0.338	0.359	0.378	0.340	6.86
46)		Trichloroethene	0.302	0.290	0.250	0.265	0.269	0.282	0.276	6.77
47)		1,2-Dichloropr...	0.271	0.259	0.255	0.291	0.292	0.314	0.280	8.00
48)		Methyl methacr...	0.306	0.199	0.189	0.198	0.197	0.239	0.221	~~20.32~~ r^2=0.99
49)		Dibromomethane	0.151	0.152	0.164	0.176	0.180	0.198	0.170	10.64
50)		Bromodichlorom...	0.384	0.294	0.339	0.371	0.375	0.400	0.361	10.59
51)		2-Chloroethylv...	0.166	0.177	0.173	0.188	0.198	0.226	0.188	11.62
52)		Cis-1,3-dichlo...	0.282	0.339		0.457	0.463	0.499	0.408	~~22.73~~ r^2=0.99
53)	SS	Toluene-d8	1.145	1.137	1.147	0.834	1.137	1.258	1.110	12.88
54)		Toluene	0.558	0.576	0.613	0.509	0.688		0.589	11.38
55)		Trans-1,3-dich...	0.300		0.366	0.310	0.411	0.476	0.372	19.64
56)		Ethyl methacry...	0.350	0.351	0.329	0.276		0.437	0.349	16.62
57)		1,1,2-Trichlor...	0.267	0.199	0.198	0.162	0.215		0.208	18.35
58)	I	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
59)		4-Methyl-2-pen...	0.448	0.306	0.309	0.325	0.335	0.376	0.350	15.51
60)		2-Hexanone	0.310	0.216	0.205	0.233	0.226	0.248	0.240	15.66
61)		Tetrachloroethene	0.213	0.252	0.268	0.281	0.295	0.277	0.264	11.02
62)		1,3-Dichloropr...	0.377	0.381	0.401	0.426	0.425	0.421	0.405	5.47
63)		Dibromochlorom...	0.220	0.243	0.272	0.303	0.315	0.315	0.278	14.36
64)		1,2-Dibromoethane	0.213	0.229	0.251	0.272	0.268	0.275	0.251	10.06
65)		1-Chlorohexane	0.529	0.403	0.371	0.396	0.400	0.392	0.415	13.76
66)		Chlorobenzene	0.727	0.736	0.798	0.865	0.892	0.909	0.821	9.61
67)		1,1,1,2-Tetrac...	0.206		0.283	0.330	0.345	0.362	0.305	~~20.59~~ r^2=0.99
68)		Ethylbenzene	1.250		1.301	1.441	1.467	1.554	1.403	8.89
69)		m,p-Xylene	0.497		0.533	0.593	0.610	0.662	0.579	11.23
70)		o-Xylene	0.464	0.535	0.537	0.607	0.623	0.660	0.571	12.59
71)		Xylene (Total)	0.486	0.528	0.536	0.601	0.614	0.670	0.573	11.81
72)		Styrene	0.844	0.875	0.906	1.015	1.024	1.094	0.959	10.27
73)		Bromoform	0.116	0.146	0.183	0.211	0.219	0.245	0.187	~~25.82~~ r^2=0.99
74)		Isopropylbenzene	1.112	1.127	1.193	1.321	1.373	1.484	1.268	11.70
75)	SS	4-Bromofluorob...	0.493	0.497	0.482	0.500	0.491	0.514	0.496	2.12
76)		Bromobenzene	0.331		0.329	0.375	0.368	0.409	0.362	9.18
77)		1,1,2,2-Tetrac...	0.409	0.350	0.353	0.390	0.391	0.432	0.387	8.21
78)		1,2,3-Trichlor...	0.110	0.118	0.106	0.114	0.114	0.132	0.116	7.90
79)		n-Propylbenzene	1.491	1.574	1.624	1.835	1.809	1.975	1.718	10.71
80)		Trans-1,4-dich...	0.090	0.091	0.100	0.116	0.119	0.143	0.110	18.56
81)		2-Chlorotoluene	0.318	0.344	0.342	0.399	0.389	0.419	0.368	10.71
82)		4-Chlorotoluene	0.338		0.369	0.414	0.404	0.433	0.392	9.73
83)		1,3,5-Trimethy...	1.052		1.205	1.397	1.408	1.590	1.331	15.55
84)		Tert-butylbenzene	0.951		1.060	1.235	1.263	1.433	1.188	15.76
85)		Pentachloroethane							0.000	-1.00
86)		1,2,4-Trimethy...	1.269		1.244	1.445	1.449	1.671	1.416	12.12
87)		Sec-Butylbenzene	1.559		1.670	1.913	1.912	2.147	1.840	12.53
88)		1,3-Dichlorobe...	0.718		0.695	0.816	0.814	0.982	0.805	14.06
89)		4-Isopropyltol...	1.343	1.326	1.420	1.664	1.697	2.024	1.579	17.07
90)		1,4-Dichlorobe...	0.716		0.720	0.833	0.822	0.928	0.804	11.04
91)	SS	1,2-Dichlorobe...	0.527	0.540	0.530	0.544	0.532	0.576	0.541	3.33
92)		1,2-Dichlorobe...	0.720		0.691	0.789	0.783	0.884	0.773	9.59
93)		n-Butylbenzene	1.464	1.337	1.352	1.543	1.549	1.732	1.496	9.82
94)		1,2-Dibromo-3-...	0.065	0.072	0.069	0.079	0.078	0.096	0.077	14.47
95)		1,2,4-Trichlor...	0.544		0.445	0.520	0.509	0.627	0.529	12.45
96)		Hexachlorobuta...	0.281		0.192	0.208	0.221	0.274	0.235	17.09

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

97)	Naphthalene	1.475	1.372	1.280	1.433	1.414	1.706	1.447	9.91
98)	1,2,3-Trichlor...	0.492		0.401	0.469	0.454	0.549	0.473	11.47

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	113	0.00
2		Dichlorodifluoromethane	0.113	0.094	16.8	122	0.01
3		Chloromethane	0.142	0.169	-19.0	180#	0.00
4		Vinyl chloride	0.183	0.205	-12.0	138	0.00
5		Bromomethane	0.064	0.102	-59.4#	210#	0.00
6		Chloroethane	0.142	0.138	2.8	133	0.00
7		Trichlorofluoromethane	0.239	0.357	-49.4#	185#	0.01
8		Ethyl Ether	0.186	0.185	0.5	140	0.00
9		Freon 113	0.170	0.208	-22.4	179#	0.00
10		Acrolein	0.043	0.033	23.3	121	0.00
11		Tert-Butyl alcohol	0.020	0.013	35.0#	129	0.00
12		1,1-Dichloroethene	0.184	0.205	-11.4	165#	0.00
13		Iodomethane	0.164	0.317	-93.3#	198#	0.00
14		Acetonitrile	0.096	0.163	-69.8#	208#	0.00
15		Methylene chloride	0.257	0.227	11.7	140	0.00
16		Trans-1,2-dichloroethene	0.200	0.220	-10.0	149	0.00
17		Isopropyl ether	0.805	0.806	-0.1	136	0.01
18		1,1-Dichloroethane	0.356	0.399	-12.1	143	0.00
19		Acetone	0.092	0.061	33.7#	122	0.00
20		Methyl Acetate	0.209	0.136	34.9#	101	0.00
21		MTBE	0.579	0.614	-6.0	143	0.00
22		Carbon disulfide	0.764	0.532	30.4#	127	0.01
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.061	18.7	127	0.00
25		Chloroprene	0.341	0.341	0.0	142	0.00
26	T	n-Heptane	0.174	0.008	95.4#	6#	0.12
27		2,2-Dichloropropane	0.291	0.310	-6.5	132	0.01
28		Cis-1,2-dichloroethene	0.238	0.254	-6.7	138	0.00
29		1,2-dichloroethene(total)	0.217	0.242	-11.5	144	0.00
30		Propionitrile	0.032	0.023	28.1#	97	0.00
31		Bromochloromethane	0.115	0.136	-18.3	146	0.00
32		Tetrahydrofuran	0.059	0.046	22.0	103	0.01
33		Chloroform	0.403	0.428	-6.2	139	0.00
34		Cyclohexane	0.398	0.369	7.3	130	0.00
35		1,1,1-Trichloroethane	0.307	0.359	-16.9	135	0.00
36		Carbon tetrachloride	0.232	0.317	-36.6#	137	0.00
37		Methylcyclohexane	0.342	0.348	-1.8	120	0.00
38		Isobutyl Alcohol	0.016	0.007	56.3#	54	-0.17

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.281	-1.8	118	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	124	0.00
41		2-Butanone	0.191	0.130	31.9#	116	0.00
42		1,1-Dichloropropene	0.326	0.318	2.5	121	0.00
43		Vinyl Acetate	0.357	0.251	29.7#	104	0.00
44		Benzene	1.078	0.938	13.0	112	0.00
45		1,2-Dichloroethane	0.340	0.336	1.2	123	0.00
46		Trichloroethene	0.276	0.249	9.8	116	0.00
47		1,2-Dichloropropane	0.280	0.228	18.6	97	0.00
48		Methyl methacrylate	0.221	0.151	31.7#	94	0.00
49		Dibromomethane	0.170	0.162	4.7	115	0.00
50		Bromodichloromethane	0.361	0.327	9.4	109	0.00
51		2-Chloroethylvinyl ether	0.188	0.152	19.1	100	0.00
52		Cis-1,3-dichloropropene	0.408	0.364	10.8	99	0.00
53	SS	Toluene-d8	1.110	1.077	3.0	160#	0.00
54		Toluene	0.589	0.609	-3.4	149	0.00
55		Trans-1,3-dichloropropene	0.372	0.319	14.2	128	0.00
56		Ethyl methacrylate	0.349	0.277	20.6	125	0.00
57		1,1,2-Trichloroethane	0.208	0.179	13.9	138	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	168#	0.00
59		4-Methyl-2-pentanone	0.350	0.253	27.7#	131	0.00
60		2-Hexanone	0.240	0.182	24.2	131	0.00
61		Tetrachloroethene	0.264	0.281	-6.4	168#	0.00
62		1,3-Dichloropropane	0.405	0.359	11.4	142	0.00
63		Dibromochloromethane	0.278	0.273	1.8	151#	0.01
64		1,2-Dibromoethane	0.251	0.233	7.2	144	0.00
65		1-Chlorohexane	0.415	0.361	13.0	153#	0.00
66		Chlorobenzene	0.821	0.829	-1.0	161#	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.318	-4.3	162#	0.00
68		Ethylbenzene	1.403	1.344	4.2	157#	0.00
69		m,p-Xylene	0.579	0.579	0.0	164#	0.00
70		o-Xylene	0.571	0.574	-0.5	159#	0.00
71		Xylene (Total)	0.573	0.579	-1.0	162#	0.00
72		Styrene	0.959	0.973	-1.5	161#	0.00
73		Bromoform	0.187	0.201	-7.5	160#	0.00
74		Isopropylbenzene	1.268	1.335	-5.3	170#	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.507	-2.2	171#	0.00
76		Bromobenzene	0.362	0.389	-7.5	175#	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.355	8.3	153#	0.00
78		1,2,3-Trichloropropane	0.116	0.102	12.1	151#	0.00
79		n-Propylbenzene	1.718	1.747	-1.7	160#	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.106	3.6	154#	0.00
81		2-Chlorotoluene	0.368	0.394	-7.1	166#	0.00
82		4-Chlorotoluene	0.392	0.417	-6.4	169#	0.00
83		1,3,5-Trimethylbenzene	1.331	1.376	-3.4	166#	0.00
84		Tert-butylbenzene	1.188	1.262	-6.2	172#	0.00
85		Pentachloroethane	0.000	0.000	0.0	167#	0.00
86		1,2,4-Trimethylbenzene	1.416	1.493	-5.4	174#	0.00
87		Sec-Butylbenzene	1.840	1.910	-3.8	168#	0.00
88		1,3-Dichlorobenzene	0.805	0.899	-11.7	185#	0.00
89		4-Isopropyltoluene	1.579	1.793	-13.6	181#	0.00
90		1,4-Dichlorobenzene	0.804	0.896	-11.4	181#	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.613	-13.3	190#	0.00
92		1,2-Dichlorobenzene	0.773	0.871	-12.7	186#	0.00
93		n-Butylbenzene	1.496	1.528	-2.1	167#	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.069	10.4	146	0.00
95		1,2,4-Trichlorobenzene	0.529	0.567	-7.2	183#	0.00
96		Hexachlorobutadiene	0.235	0.235	0.0	191#	0.00
97		Naphthalene	1.447	1.418	2.0	167#	0.00
98		1,2,3-Trichlorobenzene	0.473	0.498	-5.3	179#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 13:10:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	62	0.00
2		Dichlorodifluoromethane	0.113	0.104	8.0	75	0.00
3		Chloromethane	0.142	0.161	-13.4	94	0.00
4		Vinyl chloride	0.183	0.204	-11.5	76	0.00
5		Bromomethane	0.064	0.084	-31.3#	95	0.00
6		Chloroethane	0.142	0.134	5.6	71	0.00
7		Trichlorofluoromethane	0.239	0.322	-34.7#	91	0.00
8		Ethyl Ether	0.186	0.169	9.1	70	0.00
9		Freon 113	0.170	0.199	-17.1	94	0.00
10		Acrolein	0.043	0.030	30.2#	61	0.00
11		Tert-Butyl alcohol	0.020	0.012	40.0#	63	0.00
12		1,1-Dichloroethene	0.184	0.195	-6.0	86	0.00
13		Iodomethane	0.164	0.384	-134.1#	131	0.00
14		Acetonitrile	0.096	0.142	-47.9#	99	0.00
15		Methylene chloride	0.257	0.231	10.1	79	0.00
16		Trans-1,2-dichloroethene	0.200	0.223	-11.5	83	0.00
17		Isopropyl ether	0.805	0.776	3.6	72	0.01
18		1,1-Dichloroethane	0.356	0.391	-9.8	77	0.00
19		Acetone	0.092	0.055	40.2#	61	0.01
20		Methyl Acetate	0.209	0.119	43.1#	49#	0.00
21		MTBE	0.579	0.622	-7.4	80	0.00
22		Carbon disulfide	0.764	0.575	24.7	76	0.00
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.059	21.3	67	0.00
25		Chloroprene	0.341	0.327	4.1	75	0.00
26	T	n-Heptane	0.174	0.007	96.0#	3#	0.12
27		2,2-Dichloropropane	0.291	0.295	-1.4	69	0.00
28		Cis-1,2-dichloroethene	0.238	0.252	-5.9	75	0.00
29		1,2-dichloroethene(total)	0.217	0.244	-12.4	79	0.00
30		Propionitrile	0.032	0.022	31.3#	52	0.00
31		Bromochloromethane	0.115	0.148	-28.7#	87	0.00
32		Tetrahydrofuran	0.059	0.044	25.4#	54	0.00
33		Chloroform	0.403	0.423	-5.0	75	0.00
34		Cyclohexane	0.398	0.363	8.8	70	0.00
35		1,1,1-Trichloroethane	0.307	0.358	-16.6	74	0.00
36		Carbon tetrachloride	0.232	0.336	-44.8#	80	0.00
37		Methylcyclohexane	0.342	0.355	-3.8	67	0.00
38		Isobutyl Alcohol	0.016	0.006	62.5#	26#	-0.18

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 13:10:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.287	-4.0	66	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	67	0.00
41		2-Butanone	0.191	0.119	37.7#	57	0.00
42		1,1-Dichloropropene	0.326	0.319	2.1	65	0.01
43		Vinyl Acetate	0.357	0.222	37.8#	50#	0.00
44		Benzene	1.078	0.959	11.0	61	0.00
45		1,2-Dichloroethane	0.340	0.319	6.2	63	0.00
46		Trichloroethene	0.276	0.241	12.7	61	0.00
47		1,2-Dichloropropane	0.280	0.233	16.8	54	0.01
48		Methyl methacrylate	0.221	0.151	31.7#	51	0.00
49		Dibromomethane	0.170	0.157	7.6	60	0.00
50		Bromodichloromethane	0.361	0.324	10.2	58	0.00
51		2-Chloroethylvinyl ether	0.188	0.137	27.1#	48#	0.00
52		Cis-1,3-dichloropropene	0.408	0.344	15.7	50	0.00
53	SS	Toluene-d8	1.110	1.067	3.9	86	0.00
54		Toluene	0.589	0.606	-2.9	80	0.00
55		Trans-1,3-dichloropropene	0.372	0.306	17.7	66	0.00
56		Ethyl methacrylate	0.349	0.280	19.8	68	0.00
57		1,1,2-Trichloroethane	0.208	0.172	17.3	71	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
59		4-Methyl-2-pentanone	0.350	0.217	38.0#	71	0.00
60		2-Hexanone	0.240	0.150	37.5#	68	0.00
61		Tetrachloroethene	0.264	0.278	-5.3	104	0.00
62		1,3-Dichloropropane	0.405	0.331	18.3	82	0.00
63		Dibromochloromethane	0.278	0.269	3.2	94	0.01
64		1,2-Dibromoethane	0.251	0.211	15.9	82	0.00
65		1-Chlorohexane	0.415	0.328	21.0	88	0.00
66		Chlorobenzene	0.821	0.808	1.6	99	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.335	-9.8	107	0.00
68		Ethylbenzene	1.403	1.245	11.3	91	0.00
69		m,p-Xylene	0.579	0.541	6.6	96	0.00
70		o-Xylene	0.571	0.546	4.4	95	0.00
71		Xylene (Total)	0.573	0.546	4.7	96	0.00
72		Styrene	0.959	0.917	4.4	96	0.00
73		Bromoform	0.187	0.200	-7.0	100	0.00
74		Isopropylbenzene	1.268	1.272	-0.3	102	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 13:10:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.483	2.6	102	0.00
76		Bromobenzene	0.362	0.399	-10.2	112	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.327	15.5	89	0.00
78		1,2,3-Trichloropropane	0.116	0.106	8.6	98	0.00
79		n-Propylbenzene	1.718	1.626	5.4	94	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.092	16.4	84	0.00
81		2-Chlorotoluene	0.368	0.415	-12.8	110	0.00
82		4-Chlorotoluene	0.392	0.414	-5.6	106	0.00
83		1,3,5-Trimethylbenzene	1.331	1.310	1.6	99	0.00
84		Tert-butylbenzene	1.188	1.296	-9.1	111	0.00
85		Pentachloroethane	0.000	0.000	0.0	109	0.00
86		1,2,4-Trimethylbenzene	1.416	1.407	0.6	103	0.00
87		Sec-Butylbenzene	1.840	1.842	-0.1	102	0.00
88		1,3-Dichlorobenzene	0.805	0.903	-12.2	117	0.00
89		4-Isopropyltoluene	1.579	1.750	-10.8	111	0.00
90		1,4-Dichlorobenzene	0.804	0.919	-14.3	117	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.656	-21.3	128	0.00
92		1,2-Dichlorobenzene	0.773	0.896	-15.9	120	0.00
93		n-Butylbenzene	1.496	1.416	5.3	97	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.059	23.4	79	0.00
95		1,2,4-Trichlorobenzene	0.529	0.583	-10.2	119	0.00
96		Hexachlorobutadiene	0.235	0.251	-6.8	128	0.00
97		Naphthalene	1.447	1.437	0.7	106	0.00
98		1,2,3-Trichlorobenzene	0.473	0.516	-9.1	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 31 09:26:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	56	0.00
2		Dichlorodifluoromethane	0.113	0.097	14.2	62	0.00
3		Chloromethane	0.142	0.169	-19.0	89	0.00
4		Vinyl chloride	0.183	0.208	-13.7	70	0.00
5		Bromomethane	0.064	0.092	-43.7#	95	0.00
6		Chloroethane	0.142	0.129	9.2	61	0.00
7		Trichlorofluoromethane	0.239	0.349	-46.0#	90	0.00
8		Ethyl Ether	0.186	0.184	1.1	69	0.00
9		Freon 113	0.170	0.203	-19.4	87	0.00
10		Acrolein	0.043	0.029	32.6#	54	0.00
11		Tert-Butyl alcohol	0.020	0.011	45.0#	54	0.00
12		1,1-Dichloroethene	0.184	0.201	-9.2	80	0.00
13		Iodomethane	0.164	0.381	-132.3#	118	0.00
14		Acetonitrile	0.096	0.146	-52.1#	92	0.00
15		Methylene chloride	0.257	0.242	5.8	74	0.00
16		Trans-1,2-dichloroethene	0.200	0.215	-7.5	72	0.00
17		Isopropyl ether	0.805	0.819	-1.7	69	0.01
18		1,1-Dichloroethane	0.356	0.420	-18.0	75	0.00
19		Acetone	0.092	0.056	39.1#	55	0.00
20		Methyl Acetate	0.209	0.131	37.3#	48#	0.00
21		MTBE	0.579	0.634	-9.5	73	0.00
22		Carbon disulfide	0.764	0.562	26.4#	67	0.00
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.058	22.7	60	0.00
25		Chloroprene	0.341	0.337	1.2	70	0.00
26	T	n-Heptane	0.174	0.008	95.4#	3#	0.12
27		2,2-Dichloropropane	0.291	0.305	-4.8	64	0.00
28		Cis-1,2-dichloroethene	0.238	0.267	-12.2	72	0.00
29		1,2-dichloroethene(total)	0.217	0.247	-13.8	73	0.00
30		Propionitrile	0.032	0.024	25.0	51	0.00
31		Bromochloromethane	0.115	0.155	-34.8#	82	0.00
32		Tetrahydrofuran	0.059	0.044	25.4#	49#	0.01
33		Chloroform	0.403	0.457	-13.4	74	0.00
34		Cyclohexane	0.398	0.351	11.8	61	0.00
35		1,1,1-Trichloroethane	0.307	0.371	-20.8	69	0.00
36		Carbon tetrachloride	0.232	0.347	-49.6#	74	0.00
37		Methylcyclohexane	0.342	0.348	-1.8	59	0.00
38		Isobutyl Alcohol	0.016	0.007	56.3#	26#	-0.17

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 31 09:26:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.284	-2.9	59	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	62	0.00
41		2-Butanone	0.191	0.123	35.6#	55	0.00
42		1,1-Dichloropropene	0.326	0.316	3.1	60	0.00
43		Vinyl Acetate	0.357	0.228	36.1#	47#	0.00
44		Benzene	1.078	0.955	11.4	57	0.00
45		1,2-Dichloroethane	0.340	0.318	6.5	58	0.00
46		Trichloroethene	0.276	0.263	4.7	62	0.00
47		1,2-Dichloropropane	0.280	0.241	13.9	51	0.01
48		Methyl methacrylate	0.221	0.163	26.2#	51	0.00
49		Dibromomethane	0.170	0.173	-1.8	61	0.00
50		Bromodichloromethane	0.361	0.332	8.0	56	0.00
51		2-Chloroethylvinyl ether	0.188	0.145	22.9	48#	0.00
52		Cis-1,3-dichloropropene	0.408	0.366	10.3	50#	0.01
53	SS	Toluene-d8	1.110	1.041	6.2	77	0.00
54		Toluene	0.589	0.631	-7.1	77	0.00
55		Trans-1,3-dichloropropene	0.372	0.319	14.2	64	0.00
56		Ethyl methacrylate	0.349	0.306	12.3	69	0.00
57		1,1,2-Trichloroethane	0.208	0.213	-2.4	81	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
59		4-Methyl-2-pentanone	0.350	0.231	34.0#	69	0.00
60		2-Hexanone	0.240	0.161	32.9#	66	0.00
61		Tetrachloroethene	0.264	0.374	-41.7#	128	0.00
62		1,3-Dichloropropane	0.405	0.335	17.3	76	0.00
63		Dibromochloromethane	0.278	0.286	-2.9	91	0.01
64		1,2-Dibromoethane	0.251	0.224	10.8	79	0.00
65		1-Chlorohexane	0.415	0.332	20.0	81	0.00
66		Chlorobenzene	0.821	0.837	-1.9	93	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.353	-15.7	103	0.00
68		Ethylbenzene	1.403	1.292	7.9	86	0.00
69		m,p-Xylene	0.579	0.574	0.9	93	0.00
70		o-Xylene	0.571	0.569	0.4	90	0.00
71		Xylene (Total)	0.573	0.574	-0.2	92	0.00
72		Styrene	0.959	0.960	-0.1	91	0.00
73		Bromoform	0.187	0.208	-11.2	95	0.00
74		Isopropylbenzene	1.268	1.315	-3.7	96	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 31 09:26:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.487	1.8	94	0.00
76		Bromobenzene	0.362	0.441	-21.8	113	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.326	15.8	81	0.00
78		1,2,3-Trichloropropane	0.116	0.107	7.8	91	0.00
79		n-Propylbenzene	1.718	1.704	0.8	89	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.091	17.3	76	0.00
81		2-Chlorotoluene	0.368	0.443	-20.4	107	0.00
82		4-Chlorotoluene	0.392	0.455	-16.1	106	0.00
83		1,3,5-Trimethylbenzene	1.331	1.382	-3.8	95	0.00
84		Tert-butylbenzene	1.188	1.341	-12.9	105	0.00
85		Pentachloroethane	0.000	0.000	0.0	84	0.00
86		1,2,4-Trimethylbenzene	1.416	1.478	-4.4	99	0.00
87		Sec-Butylbenzene	1.840	1.950	-6.0	98	0.00
88		1,3-Dichlorobenzene	0.805	0.974	-21.0	115	0.00
89		4-Isopropyltoluene	1.579	1.806	-14.4	105	0.00
90		1,4-Dichlorobenzene	0.804	0.985	-22.5	114	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.692	-27.9#	123	0.00
92		1,2-Dichlorobenzene	0.773	0.940	-21.6	115	0.00
93		n-Butylbenzene	1.496	1.461	2.3	91	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.058	24.7	71	0.00
95		1,2,4-Trichlorobenzene	0.529	0.627	-18.5	116	0.00
96		Hexachlorobutadiene	0.235	0.252	-7.2	117	0.00
97		Naphthalene	1.447	1.536	-6.2	103	0.00
98		1,2,3-Trichlorobenzene	0.473	0.567	-19.9	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-067-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	15	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-071-1/3
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	6.4	
14797-55-8	Nitrate	1.3	
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-071-1/3MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.3	
14797-55-8	Nitrate	2.4	
7727-37-9	Nitrite	1.2	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-058-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	13	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-059-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	15	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-060-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	6.1	
14797-55-8	Nitrate	0.56	
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-061-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-062-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	9.9	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-063-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.7	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-137-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	9.7	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-065-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	11	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-066-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	12	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-068-1/3
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.7	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-068-1/3MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	18	
14797-55-8	Nitrate	1.1	
7727-37-9	Nitrite	1.3	

Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903098

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-16GW11-0309	6.39	6.40	0.2	15%
Nitrite-N	E300.0	OU1-16GW11-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-16GW11-0309	1.32	1.32	0	15%
Chloride	E300.0	OU1-N4GW09-0309	8.74	8.89	1.7	15%
Nitrite-N	E300.0	OU1-N4GW09-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-N4GW09-0309	BQL	BQL	N/C	15%

RPD - 0 out of 6 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-16GW11-0309	6.39	7.34	1.00	95.0	90 - 110%
Nitrite-N	E300.0	OU1-16GW11-0309	0	1.18	1.00	118*	90 - 110%
Nitrate-N	E300.0	OU1-16GW11-0309	1.32	2.44	1.00	112*	90 - 110%
Chloride	E300.0	OU1-N4GW09-0309	8.74	17.9	10.0	91.6	90 - 110%
Nitrite-N	E300.0	OU1-N4GW09-0309	0	1.34	1.00	134*	90 - 110%
Nitrate-N	E300.0	OU1-N4GW09-0309	0	1.13	1.00	113*	90 - 110%

Recovery - 4 out of 6 outside control limits

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #44805/#44035

LCSL (3/17/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	158	100	85 - 115%
Nitrite-N	732	701	95.8	85 - 115%
Nitrate-N	187	188	101	85 - 115%

Recovery - 1 out of 3 outside Control Limits

LCSH (3/11/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	154	97.5	85 - 115%

Recovery - 0 out of 1 outside Control Limits

LCSL (3/28/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	149	94.3	85 - 115%

Recovery - 0 out of 1 outside Control Limits

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903098 STD Solution ID: 45325/45405

3/17/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVL	**Chloride**	1.25	1.32	106	90 - 110%
	Nitrite-N	1.25	1.27	102	90 - 110%
	Nitrate-N	1.25	1.24	99.2	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVH	**Chloride**	20.0	20.4	102	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	**Chloride**	1.25	1.32	106	90 - 110%
	Nitrite-N	1.25	1.30	104	90 - 110%
	Nitrate-N	1.25	1.21	96.8	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	**Chloride**	20.0	20.4	102	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	**Chloride**	1.25	1.31	105	90 - 110%
	Nitrite-N	1.25	1.30	104	90 - 110%
	Nitrate-N	1.25	1.22	97.6	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	**Chloride**	20.0	20.4	102	90 - 110%

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # ~~903069~~ 903094 STD Solution ID: 45325/45405

3C5P 3/30/09

3/28/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	**Chloride**	20.0	20.1	101	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	**Chloride**	20.0	20.0	100	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH5	**Chloride**	20.0	19.9	99.5	90 - 110%

TOTAL PETROLEUM HYDROCARBON GASOLINE RANGE ORGANICS

GPL Laboratories

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW11-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903098-002-116-1/6MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	31	31	0.0	22	28	71 *	90	24	25	80-120
Ethene	29	29	0.0	19	25	66 *	86	26 *	25	80-120
Methane	16	16	0.0	13	15	81	94	15	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 1 Out of 3 Outside Limit
Spike Recovery : 2 Out of 6 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903098-012-111-2/6MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	310	310	0.0	290	290	94	94	0	25	80-120
Ethene	290	290	0.0	280	280	97	97	0	25	80-120
Methane	160	160	140	250	250	69 *	69 *	0	25	80-120

* Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 2 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108859

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	G262655.D	SDG NO :	903098
Date Analyzed	03/25/2009	Lab Sample ID :	BLK108859
GC Column :	ID. RTX_VC	Time Analyzed :	07:55

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW10-0309	903098-005-094-1/2	G262667.D	15:02
OU1-16GW11-0309	903098-002-116-1/6	G262657.D	08:42
OU1-16GW11-0309MS	903098-002-116-1/6MS	G262663.D	13:15
OU1-16GW11-0309MSD	903098-002-116-1/6MSD	G262664.D	13:29
OU1-52GW46-0309	903098-001-108-1/2	G262656.D	08:16
OU1-52GW46-0309DL	903098-001-109-2/2	G262659.D	12:06
OU1-52GW46P-0309	903098-004-092-1/2	G262661.D	12:38
OU1-52GW46P-0309DL	903098-004-093-2/2	G262666.D	14:44
OU1-MW53-0309	903098-006-096-1/2	G262668.D	15:17
OU1-MW53-0309DL	903098-006-097-2/2	G262670.D	15:51
OU1-MW53P-0309	903098-007-098-1/2	G262672.D	16:20
OU1-MW53P-0309DL	903098-007-099-2/2	G262673.D	16:49
OU1-MW55-0309	903098-008-100-1/2	G262669.D	15:33
OU1-MW55-0309DL	903098-008-101-2/2	G262671.D	16:06
OU1-MW59-0309	903098-003-090-1/2	G262658.D	08:58
OU1-MW59-0309DL	903098-003-091-2/2	G262662.D	12:58

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108892

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	G262675.D	SDG NO :	903098
Date Analyzed	03/25/2009	Lab Sample ID :	BLK108892
GC Column :	ID. RTX_VC	Time Analyzed :	17:42

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-52GW61-0309	903098-010-104-1/2	G262678.D	18:31
OU1-52GW61-0309DL	903098-010-104-1/2	G262681.D	19:19
OU1-52GW62-0309	903098-009-102-1/2	G262677.D	18:15
OU1-52GW62-0309DL	903098-009-103-2/2	G262676.D	18:01
OU1-N4GW07-0309	903098-011-106-1/2	G262679.D	18:49
OU1-N4GW09-0309	903098-012-110-1/6	G262680.D	19:04

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108895

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	G262690.D	SDG NO :	903098
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108895
GC Column :	ID. RTX_VC	Time Analyzed :	11:29

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-N4GW09-0309DL	903098-012-111-2/6	G262691.D	12:00
OU1-N4GW09-0309MS	903098-012-111-2/6MS	G262692.D	12:15
OU1-N4GW09-0309MSD	903098-012-111-2/6MSD	G262693.D	12:29

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-094-1/2
Sample Volume :	10	Lab File ID :	G262667.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.9	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-116-1/6
Sample Volume :	10	Lab File ID :	G262657.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-116-1/6MS
Sample Volume :	10	Lab File ID :	G262663.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	22	
74-85-1	Ethene	19	
74-82-8	Methane	13	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-116-1/6MSD
Sample Volume :	10	Lab File ID :	G262664.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	28	
74-85-1	Ethene	25	
74-82-8	Methane	15	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-108-1/2
Sample Volume :	10	Lab File ID :	G262656.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	28	
74-82-8	Methane	110	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-109-2/2
Sample Volume :	1	Lab File ID :	G262659.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	120	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-092-1/2
Sample Volume :	10	Lab File ID :	G262661.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	40	
74-82-8	Methane	160	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-093-2/2
Sample Volume :	1	Lab File ID :	G262666.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	45	J
74-82-8	Methane	150	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-104-1/2
Sample Volume :	10	Lab File ID :	G262678.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	41	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-104-1/2
Sample Volume :	10	Lab File ID :	G262681.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	5
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	31	U
74-85-1	Ethene	29	U
74-82-8	Methane	32	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-102-1/2
Sample Volume :	10	Lab File ID :	G262677.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	26	
74-82-8	Methane	130	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-103-2/2
Sample Volume :	1	Lab File ID :	G262676.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	100	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-096-1/2
Sample Volume :	10	Lab File ID :	G262668.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	3.9	J
74-82-8	Methane	85	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-097-2/2
Sample Volume :	1	Lab File ID :	G262670.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	87	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-098-1/2
Sample Volume :	10	Lab File ID :	G262672.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	4.2	J
74-82-8	Methane	79	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-099-2/2
Sample Volume :	1	Lab File ID :	G262673.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	92	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-100-1/2
Sample Volume :	10	Lab File ID :	G262669.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	180	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-101-2/2
Sample Volume :	.5	Lab File ID :	G262671.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	190	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-090-1/2
Sample Volume :	10	Lab File ID :	G262658.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	12	
74-85-1	Ethene	5.8	U
74-82-8	Methane	5100	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-091-2/2
Sample Volume :	.01	Lab File ID :	G262662.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1000
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6200	U
74-85-1	Ethene	5800	U
74-82-8	Methane	5300	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-106-1/2
Sample Volume :	10	Lab File ID :	G262679.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	33	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-110-1/6
Sample Volume :	10	Lab File ID :	G262680.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	82	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-111-2/6
Sample Volume :	1	Lab File ID :	G262691.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	140	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-111-2/6MS
Sample Volume :	1	Lab File ID :	G262692.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	290	
74-85-1	Ethene	280	
74-82-8	Methane	250	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-111-2/6MSD
Sample Volume :	1	Lab File ID :	G262693.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	290	
74-85-1	Ethene	280	
74-82-8	Methane	240	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108859

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108859
Sample Volume :	10	Lab File ID :	G262655.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108892

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108892
Sample Volume :	10	Lab File ID :	G262675.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108895

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108895
Sample Volume :	10	Lab File ID :	G262690.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009

Calibration Files
1 =G262567.D 2 =G262568.D 10 =G262571.D
5 =G262570.D 4 =G262569.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	1.844	1.715	1.208	1.507	1.544	1.563 E2	15.39
2)	T	Ethane	2.965	2.600	1.796	2.090	2.406	2.371 E1	19.04
3)	T	Ethylene	3.591	3.466	2.153	2.763	2.893	2.973 E1	19.52

(#) = Out of Range

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009

Calibration Files
1 =G262685.D 2 =G262686.D 10 =G262689.D
5 =G262688.D 4 =G262687.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	2.216	1.903	1.541	1.696	1.981	1.867 E2	13.96
2)	T	Ethane	3.958	3.168	2.474	2.769	2.815	3.037 E1	18.80
3)	T	Ethylene	4.914	3.707	2.995	3.715	3.755	3.817 E1	18.08

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032509\G262654.D Vial: 37
Acq On : 25 Mar 2009 7:20 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	151.446	3.1	101	0.03
2	T	Ethane	23.713	23.077	2.7	110	0.02
3	T	Ethylene	29.730	27.663	7.0	100	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032509\G262665.D
Acq On : 25 Mar 2009 13:47
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 7
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	155.663	0.4	103	0.03
2	T	Ethane	23.713	21.731	8.4	104	0.03
3	T	Ethylene	29.730	25.636	13.8	93	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032509\G262674.D Vial: 16
Acq On : 25 Mar 2009 17:28 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	143.434	8.3	95	0.03
2	T	Ethane	23.713	20.513	13.5	98	-0.03
3	T	Ethylene	29.730	23.849	19.8	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032509\G262682.D Vial: 24
Acq On : 25 Mar 2009 19:34 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	145.663	6.8	97	0.03
2	T	Ethane	23.713	21.506	9.3	103	0.04
3	T	Ethylene	29.730	24.983	16.0	90	0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903098

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Fifteen water samples were received on 03/17/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soi are reported on a dry weight basis unless otherwise specified on the report.

IC Analysis

Twelve water samples were analyzed for Chloride, Nitrate-Nitrogen, and Nitrite-Nitrogen by EPA method 300.0.

Duplicate and matrix spike analyses were performed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. Percent recove of Nitrate was very slightly above trhe QC limits in both LCSs. Recovery of Nitrite was also above the QC limits in both MSs du to an interferring peak in the matrix.

A laboratory control sample was analyzed along with each batch. All recoveries were within QC limits.

All other QC criteria were met.

General Chemistry

Twelve water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. All QC criteria were met.

Twelve water samples were analyzed for Total Organic Carbon using EPA method 9060A. Samples were run in quadruplicate, thus no duplicate analysis was performed. Matrix spike analysis was performed on sample OU1-16GW11-0309. All QC criteria were met.

Other Analysis

Twelve water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were performed on samples OU1-16GW11-0309 and OU1-N4GW09-0309 The MS/MSD for sample OU1-16GW11-0309 had two spike recoveries and one %RPD outside of the QC limits. The MS/MSD f sample OU1-N4GW09-0309 had two spike recoveries outside of the QC limits.

3/31/09

Work Order: 963090 Method: PSK

Volatiles Package Review Checklist

Case Narrative

	Analyst	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.		✓
2. All nonconformances and corrective action must be mentioned and explained.	✓	✓
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	✓
4. If reanalyses were performed, one analysis must be designated to report results.	✓	✓

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	✓
2. Double-check spike amounts for the LCS and MS/MSD.	✓	✓
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	✓
4. A form 5 for the initial calibration must be provided..	✓	✓

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	✓
$\frac{\text{Raw Conc. x (5/mass)}}{1 - (\%\text{moisture}/100)}$ *Sample Calculations* Sample ID:_____ Sample ID:_____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	✓

Work Order: 903698 Method: BSF

3. Column name & ID are properly labeled.	✓	✓
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{10mL\ of\ MeOH}{grams\ of\ soil} \times \frac{5mL\ Purge\ Volume}{mL\ of\ Extract\ Spiked}$	✓	✓
5. All analyte recoveries over the calibration limit are flagged "E".	✓	✓
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	✓	✓
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	✓	✓

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	✓
2. All continuing calibrations used to analyze the samples are included.	✓	✓
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	✓

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	✓	✓
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	✓
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	✓
4. Injection Logbook copies must be provided for all analysis sequences.	✓	✓
5. If TCLP, a copy of the Extraction Log must be provided.	✓	✓
6. If Encore samples, a copy of the Sample Weight Log must be provided.	✓	✓

Analyst Signature: _____ Date: 3/31/09

Reviewer Signature: _____ Date: 3/31/09

SAMPLE DATA PACKAGE

RSK 175 DATA

A. QC Summary

B. Sample Data

C. Standards Data

D. Raw QC Data

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW11-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903098-002-116-1/6MSD Matrix : WATER Analysis Date : 03/25/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	31	31	0.0	22	28	71 *	90	24	25	80-120
Ethene	29	29	0.0	19	25	66 *	86	26 *	25	80-120
Methane	16	16	0.0	13	15	81	94	15	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 1 Out of 3 Outside Limit
Spike Recovery : 2 Out of 6 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903098-012-111-2/6MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	310	310	0.0	290	290	94	94	0	25	80-120
Ethene	290	290	0.0	280	280	97	97	0	25	80-120
Methane	160	160	140	250	250	69 *	69 *	0	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 2 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108859

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	G262655.D	SDG NO :	903098
Date Analyzed	03/25/2009	Lab Sample ID :	BLK108859
GC Column :	ID. RTX_VC	Time Analyzed :	07:55

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-16GW10-0309	903098-005-094-1/2	G262667.D	15:02
OU1-16GW11-0309	903098-002-116-1/6	G262657.D	08:42
OU1-16GW11-0309MS	903098-002-116-1/6MS	G262663.D	13:15
OU1-16GW11-0309MSD	903098-002-116-1/6MSD	G262664.D	13:29
OU1-52GW46-0309	903098-001-108-1/2	G262656.D	08:16
OU1-52GW46-0309DL	903098-001-109-2/2	G262659.D	12:06
OU1-52GW46P-0309	903098-004-092-1/2	G262661.D	12:38
OU1-52GW46P-0309DL	903098-004-093-2/2	G262666.D	14:44
OU1-MW53-0309	903098-006-096-1/2	G262668.D	15:17
OU1-MW53-0309DL	903098-006-097-2/2	G262670.D	15:51
OU1-MW53P-0309	903098-007-098-1/2	G262672.D	16:20
OU1-MW53P-0309DL	903098-007-099-2/2	G262673.D	16:49
OU1-MW55-0309	903098-008-100-1/2	G262669.D	15:33
OU1-MW55-0309DL	903098-008-101-2/2	G262671.D	16:06
OU1-MW59-0309	903098-003-090-1/2	G262658.D	08:58
OU1-MW59-0309DL	903098-003-091-2/2	G262662.D	12:58

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108892

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	G262675.D	SDG NO :	903098
Date Analyzed	03/25/2009	Lab Sample ID :	BLK108892
GC Column :	ID. RTX_VC	Time Analyzed :	17:42

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-52GW61-0309	903098-010-104-1/2	G262678.D	18:31
OU1-52GW61-0309DL	903098-010-104-1/2	G262681.D	19:19
OU1-52GW62-0309	903098-009-102-1/2	G262677.D	18:15
OU1-52GW62-0309DL	903098-009-103-2/2	G262676.D	18:01
OU1-N4GW07-0309	903098-011-106-1/2	G262679.D	18:49
OU1-N4GW09-0309	903098-012-110-1/6	G262680.D	19:04

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108895

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	G262690.D	SDG NO :	903098
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108895
GC Column :	ID. RTX_VC	Time Analyzed :	11:29

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-N4GW09-0309DL	903098-012-111-2/6	G262691.D	12:00
OU1-N4GW09-0309MS	903098-012-111-2/6MS	G262692.D	12:15
OU1-N4GW09-0309MSD	903098-012-111-2/6MSD	G262693.D	12:29

WET CHEMISTRY

GPL Laboratories, LLLP

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-076-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-084-1/3
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-083-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-075-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-081-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-080-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-077-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-078-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-079-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-074-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-082-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-087-1/3
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-001-131-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.3	
7440-44-0	Total Organic Carbon, Replicate 2	2.2	
7440-44-0	Total Organic Carbon, Replicate 3	2.2	
7440-44-0	Total Organic Carbon, Replicate 4	2.2	
7440-44-0	Total Organic Carbon, Average	2.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-002-135-1/3
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.1	
7440-44-0	Total Organic Carbon, Replicate 2	2.0	
7440-44-0	Total Organic Carbon, Replicate 3	2.1	
7440-44-0	Total Organic Carbon, Replicate 4	2.0	
7440-44-0	Total Organic Carbon, Average	2.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-002-135-1/3MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.1	
7440-44-0	Total Organic Carbon, Replicate 2	6.1	
7440-44-0	Total Organic Carbon, Average	6.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

	SAMPLE NO
	OU1-MW59-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-003-122-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.0	
7440-44-0	Total Organic Carbon, Replicate 2	3.0	
7440-44-0	Total Organic Carbon, Replicate 3	3.0	
7440-44-0	Total Organic Carbon, Replicate 4	3.0	
7440-44-0	Total Organic Carbon, Average	3.0	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-004-123-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.2	
7440-44-0	Total Organic Carbon, Replicate 2	2.2	
7440-44-0	Total Organic Carbon, Replicate 3	2.2	
7440-44-0	Total Organic Carbon, Replicate 4	2.2	
7440-44-0	Total Organic Carbon, Average	2.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-005-124-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.5	
7440-44-0	Total Organic Carbon, Replicate 2	1.8	
7440-44-0	Total Organic Carbon, Replicate 3	1.3	
7440-44-0	Total Organic Carbon, Replicate 4	1.2	
7440-44-0	Total Organic Carbon, Average	1.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW-53-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-006-125-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.7	
7440-44-0	Total Organic Carbon, Replicate 2	1.7	
7440-44-0	Total Organic Carbon, Replicate 3	1.7	
7440-44-0	Total Organic Carbon, Replicate 4	1.7	
7440-44-0	Total Organic Carbon, Average	1.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-007-126-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.6	
7440-44-0	Total Organic Carbon, Replicate 2	1.5	
7440-44-0	Total Organic Carbon, Replicate 3	1.5	
7440-44-0	Total Organic Carbon, Replicate 4	1.5	
7440-44-0	Total Organic Carbon, Average	1.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-55-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-008-127-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.0	
7440-44-0	Total Organic Carbon, Replicate 2	2.7	
7440-44-0	Total Organic Carbon, Replicate 3	2.6	
7440-44-0	Total Organic Carbon, Replicate 4	2.6	
7440-44-0	Total Organic Carbon, Average	2.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-009-128-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.1	
7440-44-0	Total Organic Carbon, Replicate 2	5.0	
7440-44-0	Total Organic Carbon, Replicate 3	5.0	
7440-44-0	Total Organic Carbon, Replicate 4	5.0	
7440-44-0	Total Organic Carbon, Average	5.0	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52-GW61-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-010-129-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.7	
7440-44-0	Total Organic Carbon, Replicate 2	1.4	
7440-44-0	Total Organic Carbon, Replicate 3	1.4	
7440-44-0	Total Organic Carbon, Replicate 4	1.3	
7440-44-0	Total Organic Carbon, Average	1.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-011-130-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.7	
7440-44-0	Total Organic Carbon, Replicate 2	1.7	
7440-44-0	Total Organic Carbon, Replicate 3	1.7	
7440-44-0	Total Organic Carbon, Replicate 4	1.7	
7440-44-0	Total Organic Carbon, Average	1.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-012-132-1/3
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.0	
7440-44-0	Total Organic Carbon, Replicate 2	1.0	
7440-44-0	Total Organic Carbon, Replicate 3	1.0	
7440-44-0	Total Organic Carbon, Replicate 4	1.0	
7440-44-0	Total Organic Carbon, Average	1.0	

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLP Client: CH2M Hill

GPL Work-Order: 903098

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-16GW11-0309	BQL	BQL	N/C	15%
Sulfide	E376.1	OU1-1N4GW09-0309	BQL	BQL	N/C	15%

%RPD - 0 out of 2 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-16GW11-0309	2.07	6.08	4.00	100.3	85 - 115%

% Recovery - 0 out of 1 outside control limits

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC

Client: CH2M Hill

Work-Order # 903098

STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	4.00	4.00	100	70 - 130%

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903098 STD Solution ID: #43278

3/26/2009

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	32.0	100	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	30.6	96	90 - 110%

3/27/2009

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	31.9	30.5	96	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	31.3	98	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	30.5	96	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	30.8	96	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	31.2	98	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV5	31.9	30.6	96	90 - 110%

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-076-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-084-1/3
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-083-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-075-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-081-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-080-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-077-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-078-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-079-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-074-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-082-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-087-1/3
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/18/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-001-131-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/26/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.3	
7440-44-0	Total Organic Carbon, Replicate 2	2.2	
7440-44-0	Total Organic Carbon, Replicate 3	2.2	
7440-44-0	Total Organic Carbon, Replicate 4	2.2	
7440-44-0	Total Organic Carbon, Average	2.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-002-135-1/3
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.1	
7440-44-0	Total Organic Carbon, Replicate 2	2.0	
7440-44-0	Total Organic Carbon, Replicate 3	2.1	
7440-44-0	Total Organic Carbon, Replicate 4	2.0	
7440-44-0	Total Organic Carbon, Average	2.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-002-135-1/3MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.1	
7440-44-0	Total Organic Carbon, Replicate 2	6.1	
7440-44-0	Total Organic Carbon, Average	6.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-003-122-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.0	
7440-44-0	Total Organic Carbon, Replicate 2	3.0	
7440-44-0	Total Organic Carbon, Replicate 3	3.0	
7440-44-0	Total Organic Carbon, Replicate 4	3.0	
7440-44-0	Total Organic Carbon, Average	3.0	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-004-123-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.2	
7440-44-0	Total Organic Carbon, Replicate 2	2.2	
7440-44-0	Total Organic Carbon, Replicate 3	2.2	
7440-44-0	Total Organic Carbon, Replicate 4	2.2	
7440-44-0	Total Organic Carbon, Average	2.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-005-124-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.5	
7440-44-0	Total Organic Carbon, Replicate 2	1.8	
7440-44-0	Total Organic Carbon, Replicate 3	1.3	
7440-44-0	Total Organic Carbon, Replicate 4	1.2	
7440-44-0	Total Organic Carbon, Average	1.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW-53-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-006-125-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.7	
7440-44-0	Total Organic Carbon, Replicate 2	1.7	
7440-44-0	Total Organic Carbon, Replicate 3	1.7	
7440-44-0	Total Organic Carbon, Replicate 4	1.7	
7440-44-0	Total Organic Carbon, Average	1.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-007-126-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.6	
7440-44-0	Total Organic Carbon, Replicate 2	1.5	
7440-44-0	Total Organic Carbon, Replicate 3	1.5	
7440-44-0	Total Organic Carbon, Replicate 4	1.5	
7440-44-0	Total Organic Carbon, Average	1.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-55-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-008-127-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.0	
7440-44-0	Total Organic Carbon, Replicate 2	2.7	
7440-44-0	Total Organic Carbon, Replicate 3	2.6	
7440-44-0	Total Organic Carbon, Replicate 4	2.6	
7440-44-0	Total Organic Carbon, Average	2.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-009-128-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.1	
7440-44-0	Total Organic Carbon, Replicate 2	5.0	
7440-44-0	Total Organic Carbon, Replicate 3	5.0	
7440-44-0	Total Organic Carbon, Replicate 4	5.0	
7440-44-0	Total Organic Carbon, Average	5.0	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52-GW61-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-010-129-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.7	
7440-44-0	Total Organic Carbon, Replicate 2	1.4	
7440-44-0	Total Organic Carbon, Replicate 3	1.4	
7440-44-0	Total Organic Carbon, Replicate 4	1.3	
7440-44-0	Total Organic Carbon, Average	1.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-011-130-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.7	
7440-44-0	Total Organic Carbon, Replicate 2	1.7	
7440-44-0	Total Organic Carbon, Replicate 3	1.7	
7440-44-0	Total Organic Carbon, Replicate 4	1.7	
7440-44-0	Total Organic Carbon, Average	1.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903098
Case No.:		SDG NO.:	903098
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903098-012-132-1/3
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/17/2009
% Moisture:	ID.	Date Analyzed:	3/27/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.0	
7440-44-0	Total Organic Carbon, Replicate 2	1.0	
7440-44-0	Total Organic Carbon, Replicate 3	1.0	
7440-44-0	Total Organic Carbon, Replicate 4	1.0	
7440-44-0	Total Organic Carbon, Average	1.0	

Qualifier Definitions

CH2M Hill Inc

Work Order: 903098

All Departments

U	Indicates that the compound was analyzed for but not detected
BQL	Below Quantitation Limit

Organics

B	Indicates that the analyte was found in the associated blank as well as in the sample
D	Indicates that the analyte was reported from a diluted analysis
E	Indicates that the concentration detected exceeded the calibration range of the instrument
J	Value is less than the reporting limit but greater than the MDL
P	Indicates that there is greater than 25% difference for detected pesticide/Arochlor results between the two GC columns

Metals

J	Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL
E	Indicates that the reported value is estimated because of the possible presence of interference (i.e. the serial dilution not within control limits)
H	Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit
D	Indicates that the analyte was reported from a diluted analysis
N	Spiked sample recovery not within control limits
*	Duplicate analysis not within control limits

CTO 59

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Contract/Billing Reference: Nitrate and Nitrite are 48 hours; Sulfate is 28 days

1 of 2 Pgs.

Project: Groundwater Sampling Event at OU1 MCAS Cherry Point
Client: CH2M Hill
Send Results To: Bill Hannah
Address: 5700 Cleveland St. Suite 101
Virginia Beach, Va. 23462
Phone: 757-671-6277

	8260B (VOCs)	EPA 300.0 (Nitrate, Nitrite, Chloride)	EPA 376.1 (Sulfide)	RSK-175 (Methane, Ethane, Ethene)	SW846 9060 (Total Organic Carbon)
Turnaround Time	14 days	See Above	7 days	14 days	28 days
# of Containers	3	1	1	2	1
Container Type	VOA	500 Poly	250 Poly	VOA	250 ml Glass
Preservative Used	HCL	None	NaOH	HCL	H2SO4

Lab Cooler No.

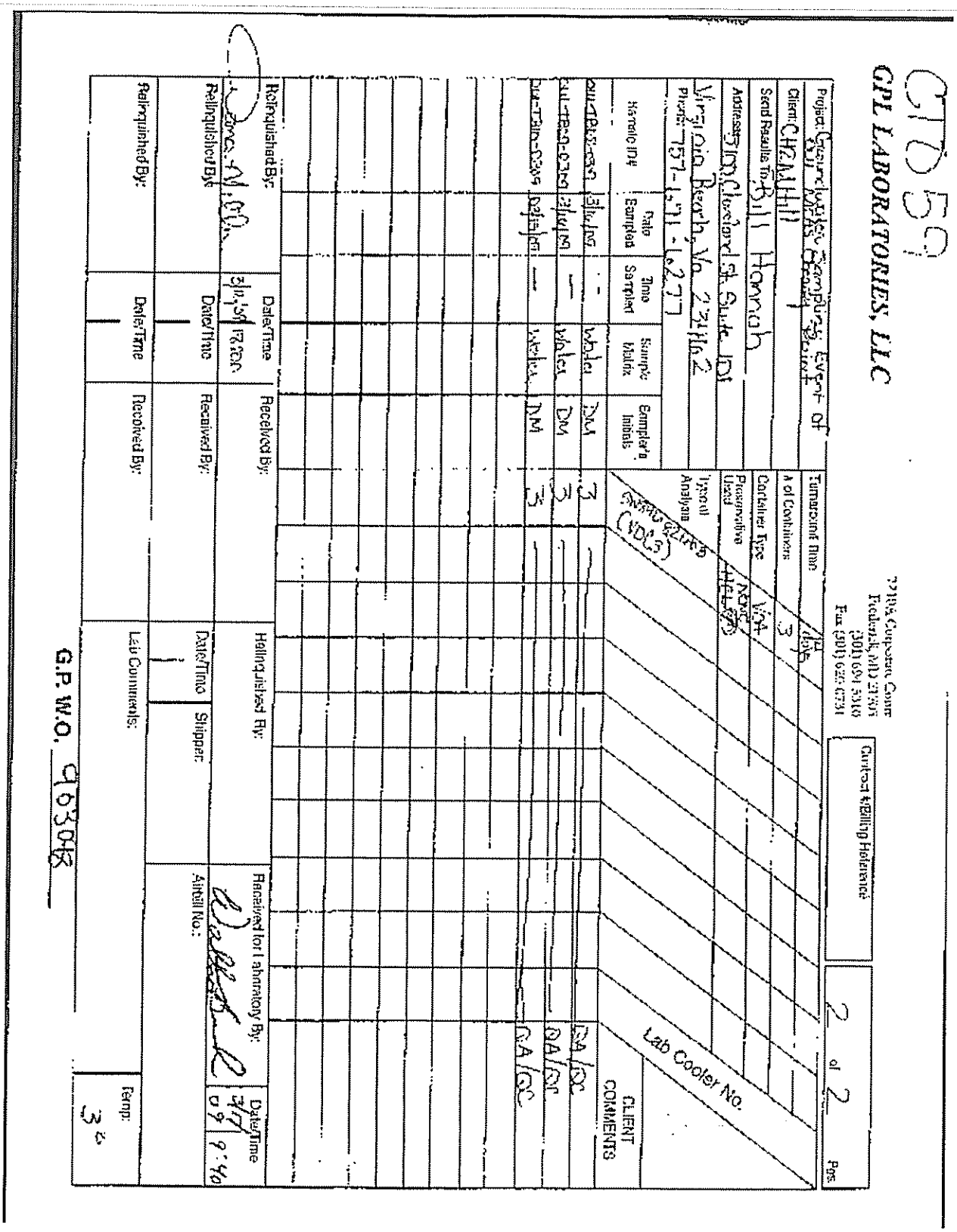
Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Samplers Initials	8260B (VOCs)	EPA 300.0 (Nitrate, Nitrite, Chloride)	EPA 376.1 (Sulfide)	RSK-175 (Methane, Ethane, Ethene)	SW846 9060 (Total Organic Carbon)	CLIENT COMMENTS
OU1-[illegible]-0309	3/16/09	16:00	Water	DM	3	1	1	2	1	
OU1-[illegible]-0309	3/16/09	9:45	Water	DM	9	3	3	6	3	MS/MSD taken here
OU1-MW59-0309	3/16/09	12:50	Water	DM	3	1	1	2	1	
OU1-[illegible]-0309	3/16/09	—	Water	DM	3	1	1	2	1	Dup.
OU1-[illegible]-0309	3/15/09	14:00	Water	DM	3	1	1	2	1	
OU1-MW53-0309	3/15/09	16:50	Water	DM	3	1	1	2	1	
OU1-[illegible]-0309	3/15/09	—	Water	DM	3	1	1	2	1	Dup.
OU1-MW55-0309	3/12/09	15:15	Water	DM	3	1	1	2	1	
OU1-[illegible]-0309	3/16/09	16:02	Water	AM/KB	3	1	1	2	1	
OU1-[illegible]-0309	3/16/09	17:00	Water	AM/KB	3	1	1	2	1	
OU1-[illegible]-0309	3/16/09	17:02	Water	AM/KB	3	1	1	2	1	
OU1-[illegible]-0309	3/16/09	10:5?	Water	AM/KB	9	3	3	6	3	MS/MSD taken here

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	3/16/09 18:00			[signature]	3/17/09 9:40

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
				3°

G.P. W.O. 903098



CT 59

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Project: Greenhouse Emissions Event of [illegible]
Client: CH2M Hill
Send Results To: Bill Hamrick
Address: 1000 Cleveland St Suite 101
Virginia Beach, Va 23451
Phone: 757-671-6277

Contract/Billing Reference

Page 2 of 2

Matrix ID	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials
[illegible]	[illegible]	[illegible]	Water	DM
[illegible]	[illegible]	[illegible]	Water	DM
[illegible]	[illegible]	[illegible]	Water	DM

Turnaround Time: 7 days
No. of Containers: 3
Container Type: VOA
Preservative Used: HCl
Typical Analysis: BTEX & TMBs (VOCs)

Lab Cooler No.

CLIENT COMMENTS

DA/QC
DA/QC
DA/QC

Relinquished By: [illegible] Date/Time: 4/7/09 9:40 Received By:
Relinquished By: [illegible] Date/Time: Received By:
Relinquished By: Date/Time: Received By:

Relinquished By: Date/Time: Received for Laboratory By: [illegible] Date/Time: 4/7/09 9:40
Relinquished By: Date/Time: Shipped: Airbill No.:

Lab Comments:

Temp: 3.6

G.P. W.O. 963048

MEMORANDUM

CH2MHILL

Corrections to COCs

TO: Garth Herdrich

COPIES: File
EDD
Laboratory Package MuLiple SDGs

FROM: Kyle Block
EIS
CH2M HILL

DATE: March 24, 2009

This memo is to document corrections made to entries on the Chains of Custody (COC) and Lab Logins for Cherry Point CTO-059.

The SDG 903862 had the sample below incorrectly labeled on the Lab Login. Please make the appropriate change changes to all deliverables.

Change Sample ID to this:	Incorrect Sample ID:	Date Sampled	Time Sampled
OU1 MW50 0309	OU1 MW5D-0309	3/10/2009	12:05

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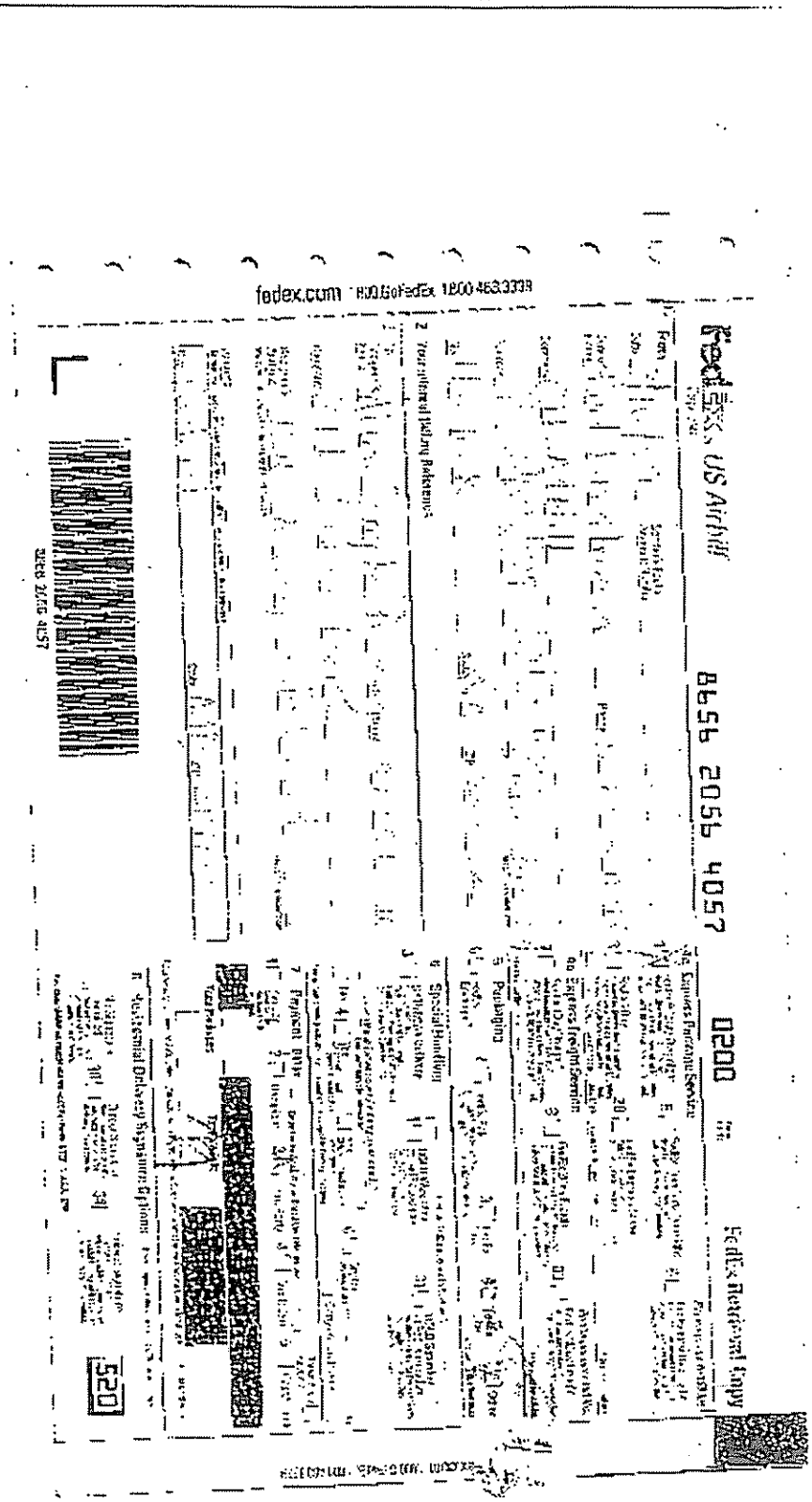
Additionally the below samples did not have sample times correlating to the sample on the COCs. Please add the times and make the appropriate changes to the CLP and make appropriate changes to all deliverables.

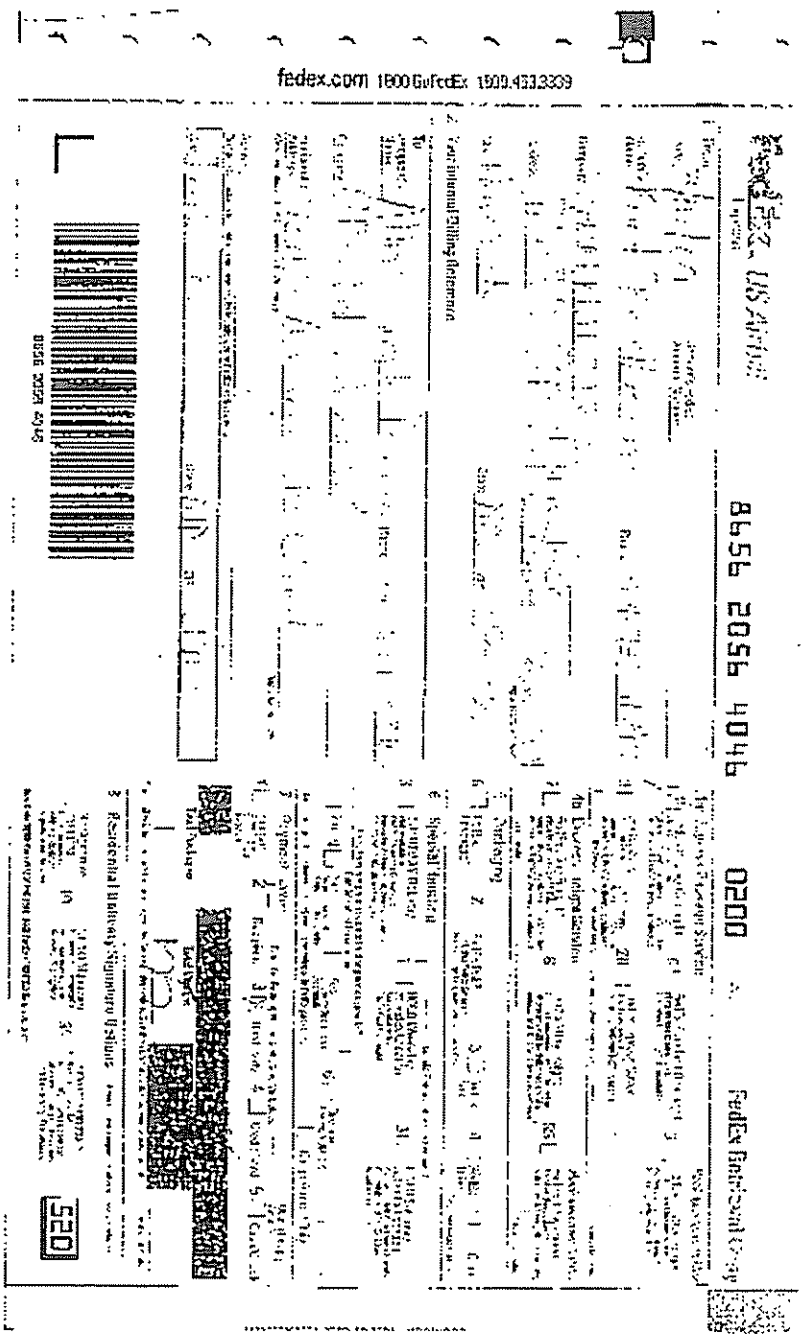
Sample ID	Date Sample	Time Sample	SDG
OU*-TB01-0309	3/10/2009	6:50	903062
OU*-TB02-0309	3/11/2009	18:00	903069
OU*-TB03-0309	3/11/2009	18:02	903069
OU*-TB04-0309	3/11/2009	18:04	903069
OU*-TB05-0309	3/12/2009	17:15	903071
OU*-TB06-0309	3/13/2009	17:10	903093
OU*-TB07-0309	3/13/2009	17:12	903093
OU*-TB08-0309	3/16/2009	17:55	903098
OU*-TB09-0309	3/16/2009	17:57	903098
OU*-TB10-0309	3/16/2009	17:59	903098
OU*-TB11-0309	3/17/2009	17:55	903125
OU*-TB12-0309	3/17/2009	17:57	903125
OU*-TB13-0309	3/17/2009	17:59	903125
OU*-TB14-0309	3/18/2009	17:55	903124
OU*-TB15-0309	3/18/2009	17:57	903124
OU1-MW53P-0309	3/15/2009	15:20	903098
OU1-S2GW46P-0309	3/16/2009	11:07	903098

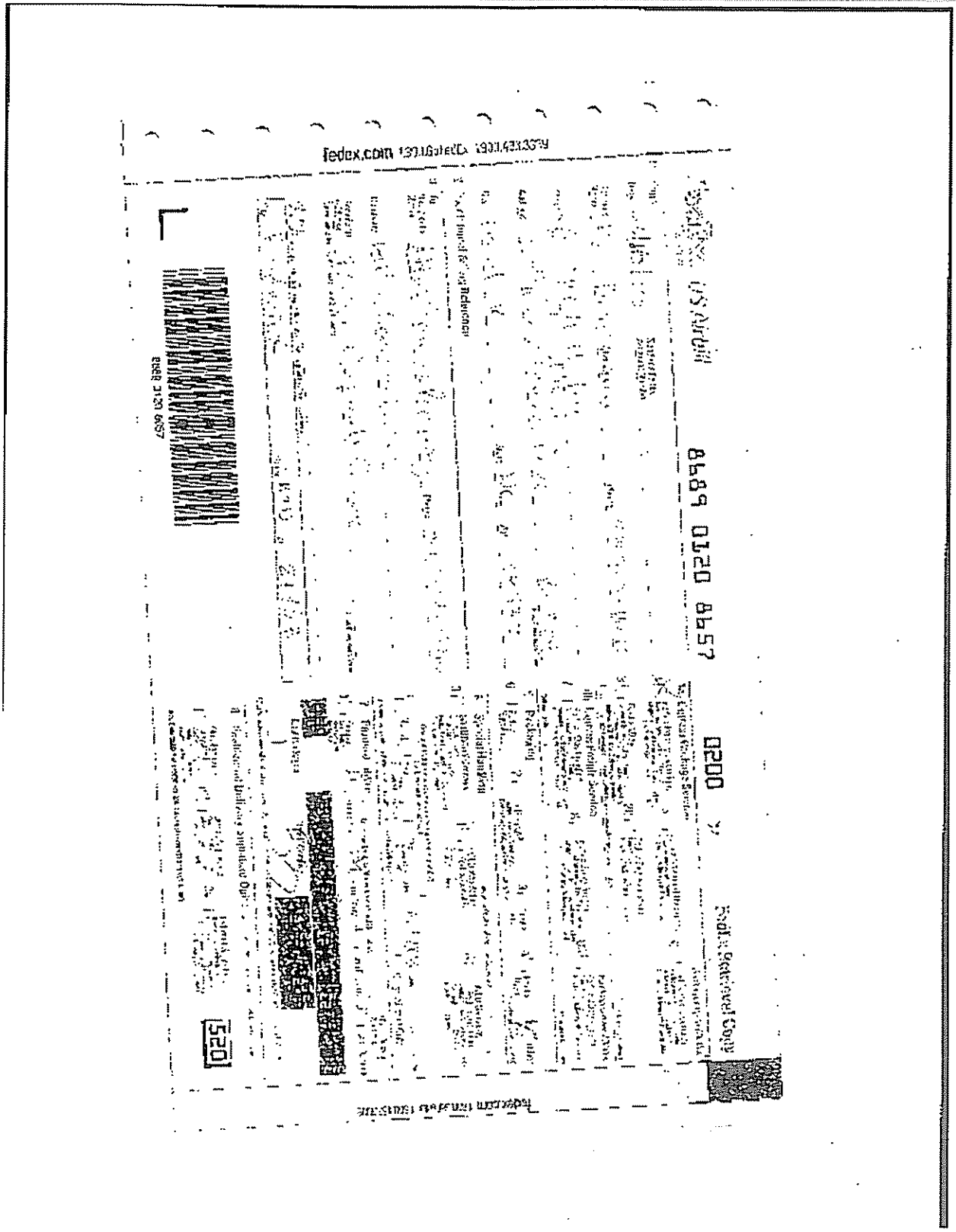

fedex.com
8458 2054 4057
0200
FedEx National Copy

Chain of Custody

CH2M Hill Inc

SDG: 903098





GPL Laboratories, LLLP

Figure 3

Sample Preservation Check Documentation Form

Work Order: 903098

Parameter: Preservative: ph Value	Metals (1A) HNO3 <2	Phenol H2SO4 <2	TPH O&G H2SO4 <2	Classical Parameters H2SO4 <2	Cyanide & Sulfide NaOH >12	NaOH >9	Radiology (2B) HNO3 <2	Other Preservative Adjustment	Reagent Lot #	see checklist for comments
GFL ID										
OWI-526W46-0309				✓		✓		Y/N		
OWI-166W11-0309				✓		✓		Y/N		
OWI-MW59-0309				✓		✓		Y/N		
OWI-526W46P-0309				✓		✓		Y/N		
OWI-166W11-0309				✓		✓		Y/N		
OWI-MW53-0309				✓		✓		Y/N		
OWI-MW53D-0309				✓		✓		Y/N		
OWI-MW55-0309				✓		✓		Y/N		
OWI-526W63-0309				✓		✓		Y/N		
OWI-526W64-0309				✓		✓		Y/N		
OWI-146W17-0309				✓		✓		Y/N		
OWI-146W09-0309				✓		✓		Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		
								Y/N		

(PA): If drinking water metals sample is acidified in the laboratory,
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.
(RB): If Radiochemistry sample is acidified in the laboratory,
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.
Trigger analyses should NOT be preserved.

Sample Preservation Check Performed By: Pat Date: 3-17-09

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903098
Client Name: CH2M Hill
Date Received: 3-17-09
Time Received: 9:40
Received By: Walt

Carrier Name: Fed-ex
Prepared (Logged In) By: PM 3-17-09
Project:
Site:
VOA Holding Blank ID No:

	YES	NO
Airbill/Manifest Present? No: 865620564040	✓	
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?	✓	
Condition: Good ✓ Broken		
Chain of Custody Present?	✓	
Chain of Custody Agrees with Sample Labels?	✓	
Chain of Custody Signed?	✓	
Packing Present in Shipping Container?	✓	
Type of Packing: bubble wrap		
Custody Seals on Sample Bottles?	✓	
Condition: Good ✓ Broken		
Total Number of Sample Bottles: 87	✓	
Total Number of Samples: ~~15~~ PM 16	✓	
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks Received?	✓	
No. of Sets: 2		
VOA Vials Have Zero Headspace?	✓	
Preservatives Added to Sample?	✓	
pH Check Required?	✓	
Performed By: PM		
Ice Present in Shipping Container?	✓	

Container #	Temperature
3	3°

Project Manager Contacted?
Name: Garth
Date Contacted: 3-17-09

Any NC response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: ~~Sample 001-S2GW03 1 bottle of Anions were not sent different sample ID # is 001-N26W17-0309~~
SAMPLE ID CORRECTED BY FIELD CREW. - GARTH H.

Checklist Completed By: Pat
Date: 3-17-09

VOLATILE ORGANICS

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary
   (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903098

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108893	75	19 *	7 *	84
BLK108893	92	91	100	120
OU1-16GW10-0309	90	102	97	117
OU1-16GW11-0309	92	88	99	118
OU1-52GW46-0309	92	93	99	118
OU1-52GW46P-0309	92	99	101	111
OU1-MW53-0309	93	92	103	125
OU1-MW53P-0309	91	90	99	118
OU1-MW59-0309	95	90	99	119
OU1-TB08-0309	92	92	102	115
OU1-TB09-0309	94	91	98	118
OU1-TB10-0309	90	91	102	115

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903098

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108899	101	93	103	122
BLK108899	91	88	96	116
OU1-52GW61-0309	92	90	101	119
OU1-52GW62-0309	95	94	103	124
OU1-MW55-0309	91	90	99	120
OU1-N4GW07-0309	92	93	100	118
OU1-N4GW09-0309	94	92	100	119

*Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903098

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108905	104	99	100	118
BLK108905	96	94	102	111
OU1-16GW11-0309DLMS	103	98	103	116
OU1-16GW11-0309DLMSD	102	100	102	119
OU1-52GW46-0309DL	85	94	107	95
OU1-52GW46P-0309DL	96	97	100	113
OU1-MW53-0309DL	95	95	100	110
OU1-MW53P-0309DL	95	97	101	108
OU1-N4GW09-0309MS	91	20 *	95	109
OU1-N4GW09-0309MSD	104	100	102	116

*Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-002-040-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1,2-Tetrachloroethane	500	500	0.0	490	500	98	100	2	25	80-130
1,1,1-Trichloroethane	500	500	0.0	670	680	134 *	136 *	1	25	65-130
1,1,2,2-Tetrachloroethane	500	500	0.0	460	520	92	104	12	25	65-130
1,1,2-Trichloroethane	500	500	0.0	490	500	96	100	4	25	75-125
1,1-Dichloroethane	500	500	0.0	600	610	120	122	2	25	70-135
1,1-Dichloroethene	500	500	0.0	610	630	122	126	3	25	70-130
1,1-Dichloropropene	500	500	0.0	540	560	108	112	4	25	75-130
1,2,3-Trichlorobenzene	500	500	0.0	530	600	106	120	12	25	55-140
1,2,3-Trichloropropane	500	500	0.0	490	540	98	108	10	25	75-125
1,2,4-Trichlorobenzene	500	500	0.0	550	600	110	120	9	25	65-135
1,2,4-Trimethylbenzene	500	500	0.0	560	580	112	116	4	25	75-130
1,2-Dibromo-3-Chloropropane	500	500	0.0	440	500	88	100	13	25	50-130
1,2-Dichlorobenzene	500	500	0.0	580	610	116	122 *	5	25	70-120
1,2-Dichloroethane	500	500	0.0	500	540	100	108	8	25	70-130
1,2-Dichloropropane	500	500	0.0	440	460	88	92	4	25	75-125
1,3,5-trimethylbenzene	500	500	0.0	560	590	112	118	5	25	75-130
1,3-Dichlorobenzene	500	500	0.0	580	610	116	122	5	25	75-125
1,3-Dichloropropane	500	500	0.0	460	470	92	94	2	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 18 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-002-040-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,4-Dichlorobenzene	500	500	0.0	570	610	114	122	7	25	75-125
2,2-Dichloropropane	500	500	0.0	580	590	116	118	2	25	70-135
2-Butanone	1000	1000	0.0	970	1100	97	110	13	25	30-150
2-Chlorotoluene	500	500	0.0	600	610	120	122	2	25	75-125
2-Hexanone	1000	1000	0.0	770	850	77	85	10	25	55-130
4-Chlorotoluene	500	500	0.0	580	600	116	120	3	25	75-130
4-Isopropyltoluene	500	500	0.0	620	650	124	130	5	25	75-130
4-Methyl-2-Pentanone	1000	1000	0.0	770	840	77	84	9	25	60-135
Acetone	1000	1000	0.0	1200	1200	120	120	0	25	40-140
Benzene	500	500	0.0	470	490	94	98	4	25	80-120
Bromobenzene	500	500	0.0	560	580	112	116	4	25	75-125
Bromochloromethane	500	500	0.0	600	650	120	130	8	25	65-130
Bromodichloromethane	500	500	0.0	480	500	96	100	4	25	75-120
Bromoform	500	500	0.0	460	490	92	98	6	25	70-130
Bromomethane	500	500	0.0	780	820	156 *	164 *	5	25	30-145
Carbon Disulfide	500	500	0.0	510	530	102	106	4	25	35-160
Carbon Tetrachloride	500	500	0.0	660	660	132	132	0	25	65-140
Chlorobenzene	500	500	0.0	530	550	106	110	4	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 18 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-002-040-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Chloroethane	500	500	0.0	540	550	108	110	2	25	60-135
Chloroform	500	500	0.0	580	590	116	118	2	25	65-135
Chloromethane	500	500	0.0	590	680	118	138 *	16	25	40-125
Cyclohexane	500	500	0.0	610	620	122 *	124 *	2	25	50-120
Dibromochloromethane	500	500	0.0	510	520	102	104	2	25	60-135
Dibromomethane	500	500	0.0	500	530	100	106	6	25	75-125
Dichlorodifluoromethane	500	500	0.0	460	430	92	86	7	25	30-155
Ethylbenzene	500	500	0.0	530	540	106	108	2	25	75-125
Ethylene DiBromide	500	500	0.0	480	500	96	100	4	25	80-120
Freon 113	500	500	0.0	780	780	156 *	156 *	0	25	70-120
Hexachlorobutadiene	500	500	0.0	550	580	110	116	5	25	50-140
Isopropylbenzene	500	500	0.0	570	600	114	120	5	25	75-125
Methyl Acetate	500	500	0.0	630	720	126 *	144 *	13	25	50-120
Methylcyclohexane	500	500	0.0	630	630	126 *	126 *	0	25	50-120
Methylene Chloride	500	500	0.0	550	560	110	112	2	25	55-140
Naphthalene	500	500	0.0	520	570	104	114	9	25	55-140
Sec-Butylbenzene	500	500	0.0	590	610	118	122	3	25	70-125
Styrene	500	500	0.0	530	540	106	110	4	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 18 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-002-040-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Tetrachloroethylene	500	500	0.0	610	600	122	122	0	25	45-150
Toluene	500	500	0.0	570	600	114	120	5	25	75-120
Trichloroethene	500	500	210	500	510	58 *	60 *	3	25	70-125
Trichlorofluoromethane	500	500	0.0	840	880	168 *	176 *	5	25	60-145
Vinyl Acetate	500	500	0.0	320	380	64	76	17	25	36-133
Vinyl Chloride	500	500	0.0	480	500	96	100	4	25	50-145
cis-1,2-Dichloroethene	500	500	0.0	560	560	110	112	2	25	70-125
cis-1,3-Dichloropropene	500	500	0.0	400	420	80	84	5	25	70-130
m,p-Xylene	1000	1000	0.0	1100	1100	110	110	0	25	75-130
n-Butylbenzene	500	500	0.0	570	610	114	122	7	25	70-135
n-Propylbenzene	500	500	0.0	570	590	114	118	3	25	70-130
o-Xylene	500	500	0.0	550	560	110	112	2	25	80-120
tert-Butylbenzene	500	500	0.0	600	610	120	122	2	25	70-130
tert-butyl methyl ether	500	500	0.0	560	580	112	116	4	25	65-125
trans-1,2-dichloroethene	500	500	0.0	620	610	124	122	2	25	60-140
trans-1,3-dichloropropene	500	500	0.0	460	480	92	96	4	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 18 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-012-049-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1,2-Tetrachloroethane	50	50	0.0	43	50	86	100	15	25	80-130
1,1,1-Trichloroethane	50	50	0.0	15	67	30 *	134 *	127 *	25	65-130
1,1,2,2-Tetrachloroethane	50	50	0.0	40	46	80	92	14	25	65-130
1,1,2-Trichloroethane	50	50	0.0	9.0	50	18 *	100	139 *	25	75-125
1,1-Dichloroethane	50	50	0.0	13	58	26 *	116	127 *	25	70-135
1,1-Dichloroethene	50	50	0.0	14	60	26 *	120	129 *	25	70-130
1,1-Dichloropropene	50	50	0.0	32	55	64 *	110	53 *	25	75-130
1,2,3-Trichlorobenzene	50	50	0.0	43	54	86	108	23	25	55-140
1,2,3-Trichloropropane	50	50	0.0	46	49	92	98	6	25	75-125
1,2,4-Trichlorobenzene	50	50	0.0	43	56	86	112	26 *	25	65-135
1,2,4-Trimethylbenzene	50	50	0.0	46	55	92	110	18	25	75-130
1,2-Dibromo-3-Chloropropane	50	50	0.0	33	40	66	80	19	25	50-130
1,2-Dichlorobenzene	50	50	0.0	50	58	100	116	15	25	70-120
1,2-Dichloroethane	50	50	0.0	37	51	74	102	32 *	25	70-130
1,2-Dichloropropane	50	50	0.0	8.4	45	17 *	90	136 *	25	75-125
1,3,5-trimethylbenzene	50	50	0.0	47	56	94	112	17	25	75-130
1,3-Dichlorobenzene	50	50	0.0	49	59	98	118	19	25	75-125
1,3-Dichloropropane	50	50	0.0	42	46	84	92	9	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 36 Out of 70 Outside Limit
Spike Recovery : 39 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-012-049-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,4-Dichlorobenzene	50	50	0.0	50	58	100	116	15	25	75-125
2,2-Dichloropropane	50	50	0.0	13	54	26 *	108	122 *	25	70-135
2-Butanone	100	100	0.0	59	94	59	94	46 *	25	30-150
2-Chlorotoluene	50	50	0.0	52	59	104	118	13	25	75-125
2-Hexanone	100	100	0.0	82	75	82	75	9	25	55-130
4-Chlorotoluene	50	50	0.0	52	58	104	116	11	25	75-130
4-Isopropyltoluene	50	50	0.0	52	62	104	124	18	25	75-130
4-Methyl-2-Pentanone	100	100	0.0	81	74	81	74	9	25	60-135
Acetone	100	100	0.0	2.9	96	3 *	96	188 *	25	40-140
Benzene	50	50	0.0	29	48	58 *	96	49 *	25	80-120
Bromobenzene	50	50	0.0	50	56	100	112	11	25	75-125
Bromochloromethane	50	50	0.0	19	61	38 *	122	105 *	25	65-130
Bromodichloromethane	50	50	0.0	8.9	49	18 *	98	138 *	25	75-120
Bromoform	50	50	0.0	40	47	80	94	16	25	70-130
Bromomethane	50	50	0.0	13	74	26 *	148 *	140 *	25	30-145
Carbon Disulfide	50	50	0.0	11	50	22 *	100	128 *	25	35-160
Carbon Tetrachloride	50	50	0.0	56	64	110	128	15	25	65-140
Chlorobenzene	50	50	0.0	47	54	92	108	16	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 36 Out of 70 Outside Limit
Spike Recovery : 39 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-012-049-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Chloroethane	50	50	0.0	9.1	48	18 *	96	137 *	25	60-135
Chloroform	50	50	0.0	13	58	26 *	116	127 *	25	65-135
Chloromethane	50	50	0.0	13	58	26 *	116	127 *	25	40-125
Cyclohexane	50	50	0.0	14	61	28 *	122 *	125 *	25	50-120
Dibromochloromethane	50	50	0.0	48	51	94	102	8	25	60-135
Dibromomethane	50	50	0.0	9.8	52	20 *	104	135 *	25	75-125
Dichlorodifluoromethane	50	50	0.0	9.1	42	18 *	84	129 *	25	30-155
Ethylbenzene	50	50	0.0	44	52	88	104	17	25	75-125
Ethylene DiBromide	50	50	0.0	45	49	90	98	9	25	80-120
Freon 113	50	50	0.0	17	78	34 *	156 *	128 *	25	70-120
Hexachlorobutadiene	50	50	0.0	41	55	82	110	29 *	25	50-140
Isopropylbenzene	50	50	0.0	48	58	96	116	19	25	75-125
Methyl Acetate	50	50	0.0	66	61	132 *	122 *	8	25	50-120
Methylcyclohexane	50	50	0.0	14	63	28 *	126 *	127 *	25	50-120
Methylene Chloride	50	50	0.0	14	55	28 *	110	119 *	25	55-140
Naphthalene	50	50	0.0	43	52	86	104	19	25	55-140
Sec-Butylbenzene	50	50	0.0	49	59	98	118	19	25	70-125
Styrene	50	50	0.0	45	52	90	104	14	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 36 Out of 70 Outside Limit
Spike Recovery : 39 Out of 140 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : SW8260LL

Lab Code : GPL Lab Sample ID : 903098-012-049-1/9MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Tetrachloroethylene	50	50	0.0	55	60	110	120	9	25	45-150
Toluene	50	50	0.0	11	57	22 *	114	135 *	25	75-120
Trichloroethene	50	50	2.7	40	54	75	103	31 *	25	70-125
Trichlorofluoromethane	50	50	0.0	14	77	28 *	154 *	138 *	25	60-145
Vinyl Acetate	50	50	0.0	6.3	28	13 *	56	125 *	25	36-133
Vinyl Chloride	50	50	0.0	14	47	26 *	94	113 *	25	50-145
cis-1,2-Dichloroethene	50	50	0.97	14	56	26 *	110	124 *	25	70-125
cis-1,3-Dichloropropene	50	50	0.0	9.7	40	19 *	82	125 *	25	70-130
m,p-Xylene	100	100	0.0	94	110	94	110	16	25	75-130
n-Butylbenzene	50	50	0.0	46	56	92	112	20	25	70-135
n-Propylbenzene	50	50	0.0	47	58	94	116	21	25	70-130
o-Xylene	50	50	0.0	46	54	92	108	16	25	80-120
tert-Butylbenzene	50	50	0.0	50	60	100	120	18	25	70-130
tert-butyl methyl ether	50	50	0.0	13	55	26 *	110	124 *	25	65-125
trans-1,2-dichloroethene	50	50	0.0	14	62	28 *	124	126 *	25	60-140
trans-1,3-dichloropropene	50	50	0.0	8.6	46	17 *	92	138 *	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 36 Out of 70 Outside Limit
Spike Recovery : 39 Out of 140 outside limit

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108893

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108893
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	44	88	80-130
1,1,1-Trichloroethane	50	0	13	26 *	65-130
1,1,2,2-Tetrachloroethane	50	0	26	52 *	65-130
1,1,2-Trichloroethane	50	0	7.8	16 *	75-125
1,1-Dichloroethane	50	0	42	84	70-135
1,1-Dichloroethene	50	0	25	50 *	70-130
1,1-Dichloropropene	50	0	27	54 *	75-130
1,2,3-Trichlorobenzene	50	0	36	72	55-140
1,2,3-Trichloropropane	50	0	32	64 *	75-125
1,2,4-Trichlorobenzene	50	0	30	60 *	65-135
1,2,4-Trimethylbenzene	50	0	34	68 *	75-130
1,2-Dibromo-3-Chloropropane	50	0	21	42 *	50-130
1,2-Dichlorobenzene	50	0	37	74	70-120
1,2-Dichloroethane	50	0	21	42 *	70-130
1,2-Dichloropropane	50	0	7.6	15 *	75-125
1,3,5-trimethylbenzene	50	0	34	68 *	75-130
1,3-Dichlorobenzene	50	0	40	80	75-125
1,3-Dichloropropane	50	0	40	80	75-125
1,4-Dichlorobenzene	50	0	40	80	75-125
2,2-Dichloropropane	50	0	51	102	70-135
2-Butanone	100	0	37	37	30-150
2-Chlorotoluene	50	0	1.6	3 *	75-125
2-Hexanone	100	0	59	59	55-130
4-Chlorotoluene	50	0	41	82	75-130
4-Isopropyltoluene	50	0	37	74 *	75-130

* Values Outside of QC Limits.

Spike recovery : 14 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108893

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108893
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	61	61	60-135
Acetone	100	0	50	50	40-140
Benzene	50	0	23	46 *	80-120
Bromobenzene	50	0	42	84	75-125
Bromochloromethane	50	0	59	118	65-130
Bromodichloromethane	50	0	1.0	0 *	75-120
Bromoform	50	0	33	66 *	70-130
Bromomethane	50	0	73	146 *	30-145
Carbon Disulfide	50	0	45	90	35-160
Carbon Tetrachloride	50	0	10	20 *	65-140
Chlorobenzene	50	0	45	90	80-120
Chloroethane	50	0	29	58 *	60-135
Chloroform	50	0	38	76	65-135
Chloromethane	50	0	12	24 *	40-125
Cyclohexane	50	0	29	58	50-120
Dibromochloromethane	50	0	48	96	60-135
Dibromomethane	50	0	7.8	16 *	75-125
Dichlorodifluoromethane	50	0	10	20 *	30-155
Ethylbenzene	50	0	42	84	75-125
Ethylene DiBromide	50	0	37	74 *	80-120
Freon 113	50	0	120	240 *	70-130
Hexachlorobutadiene	50	0	29	58	50-140
Isopropylbenzene	50	0	38	76	75-125
Methyl Acetate	50	0	1.0	0 *	50-120
Methylcyclohexane	50	0	12	24 *	50-120

* Values Outside of QC Limits.

Spike recovery : 13 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108893

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108893
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	4.4	9 *	55-140
Naphthalene	50	0	31	62	55-140
Sec-Butylbenzene	50	0	33	66 *	70-125
Styrene	50	0	40	80	65-135
Tetrachloroethylene	50	0	71	142	45-150
Toluene	50	0	10	20 *	75-120
Trichloroethene	50	0	14	28 *	70-125
Trichlorofluoromethane	50	0	88	176 *	60-145
Vinyl Acetate	50	0	11	22 *	41-139
Vinyl Chloride	50	0	23	46 *	50-145
cis-1,2-Dichloroethene	50	0	54	108	70-125
cis-1,3-Dichloropropene	50	0	9.3	19 *	70-130
m,p-Xylene	100	0	88	88	75-130
n-Butylbenzene	50	0	30	60 *	70-135
n-Propylbenzene	50	0	37	74	70-130
o-Xylene	50	0	40	80	80-120
tert-Butylbenzene	50	0	36	72	70-130
tert-butyl methyl ether	50	0	5.2	10 *	65-125
trans-1,2-dichloroethene	50	0	54	108	60-140
trans-1,3-dichloropropene	50	0	7.8	16 *	55-140

* Values Outside of QC Limits.

Spike recovery : 11 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108899

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108899
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	53	106	80-130
1,1,1-Trichloroethane	50	0	61	122	65-130
1,1,2,2-Tetrachloroethane	50	0	42	84	65-130
1,1,2-Trichloroethane	50	0	50	100	75-125
1,1-Dichloroethane	50	0	57	114	70-135
1,1-Dichloroethene	50	0	54	108	70-130
1,1-Dichloropropene	50	0	47	94	75-130
1,2,3-Trichlorobenzene	50	0	57	114	55-140
1,2,3-Trichloropropane	50	0	45	90	75-125
1,2,4-Trichlorobenzene	50	0	58	116	65-135
1,2,4-Trimethylbenzene	50	0	51	102	75-130
1,2-Dibromo-3-Chloropropane	50	0	40	80	50-130
1,2-Dichlorobenzene	50	0	59	118	70-120
1,2-Dichloroethane	50	0	48	96	70-130
1,2-Dichloropropane	50	0	42	84	75-125
1,3,5-trimethylbenzene	50	0	51	102	75-130
1,3-Dichlorobenzene	50	0	58	116	75-125
1,3-Dichloropropane	50	0	45	90	75-125
1,4-Dichlorobenzene	50	0	60	120	75-125
2,2-Dichloropropane	50	0	51	102	70-135
2-Butanone	100	0	96	96	30-150
2-Chlorotoluene	50	0	58	116	75-125
2-Hexanone	100	0	68	68	55-130
4-Chlorotoluene	50	0	56	112	75-130
4-Isopropyltoluene	50	0	57	114	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108899

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108899
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	67	67	60-135
Acetone	100	0	110	110	40-140
Benzene	50	0	44	88	80-120
Bromobenzene	50	0	59	118	75-125
Bromochloromethane	50	0	69	138 *	65-130
Bromodichloromethane	50	0	45	90	75-120
Bromoform	50	0	48	96	70-130
Bromomethane	50	0	75	150 *	30-145
Carbon Disulfide	50	0	50	100	35-160
Carbon Tetrachloride	50	0	61	122	65-140
Chlorobenzene	50	0	52	104	80-120
Chloroethane	50	0	47	94	60-135
Chloroform	50	0	54	108	65-135
Chloromethane	50	0	62	124	40-125
Cyclohexane	50	0	51	102	50-120
Dibromochloromethane	50	0	53	106	60-135
Dibromomethane	50	0	49	98	75-125
Dichlorodifluoromethane	50	0	46	92	30-155
Ethylbenzene	50	0	46	92	75-125
Ethylene DiBromide	50	0	46	92	80-120
Freon 113	50	0	64	128	70-130
Hexachlorobutadiene	50	0	53	106	50-140
Isopropylbenzene	50	0	52	104	75-125
Methyl Acetate	50	0	59	118	50-120
Methylcyclohexane	50	0	52	104	50-120

* Values Outside of QC Limits.

Spike recovery : 2 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108899

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108899
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	53	106	55-140
Naphthalene	50	0	53	106	55-140
Sec-Butylbenzene	50	0	51	102	70-125
Styrene	50	0	49	98	65-135
Tetrachloroethylene	50	0	63	126	45-150
Toluene	50	0	51	102	75-120
Trichloroethene	50	0	44	88	70-125
Trichlorofluoromethane	50	0	75	150 *	60-145
Vinyl Acetate	50	0	35	70	41-139
Vinyl Chloride	50	0	47	94	50-145
cis-1,2-Dichloroethene	50	0	52	104	70-125
cis-1,3-Dichloropropene	50	0	39	78	70-130
m,p-Xylene	100	0	97	97	75-130
n-Butylbenzene	50	0	48	96	70-135
n-Propylbenzene	50	0	49	98	70-130
o-Xylene	50	0	51	102	80-120
tert-Butylbenzene	50	0	56	112	70-130
tert-butyl methyl ether	50	0	56	112	65-125
trans-1,2-dichloroethene	50	0	58	116	60-140
trans-1,3-dichloropropene	50	0	45	90	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108905

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108905
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	48	96	80-130
1,1,1-Trichloroethane	50	0	60	120	65-130
1,1,2,2-Tetrachloroethane	50	0	45	90	65-130
1,1,2-Trichloroethane	50	0	49	98	75-125
1,1-Dichloroethane	50	0	57	114	70-135
1,1-Dichloroethene	50	0	55	110	70-130
1,1-Dichloropropene	50	0	51	102	75-130
1,2,3-Trichlorobenzene	50	0	55	110	55-140
1,2,3-Trichloropropane	50	0	44	88	75-125
1,2,4-Trichlorobenzene	50	0	56	112	65-135
1,2,4-Trimethylbenzene	50	0	54	108	75-130
1,2-Dibromo-3-Chloropropane	50	0	42	84	50-130
1,2-Dichlorobenzene	50	0	58	116	70-120
1,2-Dichloroethane	50	0	50	100	70-130
1,2-Dichloropropane	50	0	43	86	75-125
1,3,5-trimethylbenzene	50	0	54	108	75-130
1,3-Dichlorobenzene	50	0	57	114	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	57	114	75-125
2,2-Dichloropropane	50	0	54	108	70-135
2-Butanone	100	0	91	91	30-150
2-Chlorotoluene	50	0	56	112	75-125
2-Hexanone	100	0	71	71	55-130
4-Chlorotoluene	50	0	54	108	75-130
4-Isopropyltoluene	50	0	59	118	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108905

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108905
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	71	71	60-135
Acetone	100	0	120	120	40-140
Benzene	50	0	44	88	80-120
Bromobenzene	50	0	56	112	75-125
Bromochloromethane	50	0	59	118	65-130
Bromodichloromethane	50	0	45	90	75-120
Bromoform	50	0	45	90	70-130
Bromomethane	50	0	75	150 *	30-145
Carbon Disulfide	50	0	49	98	35-160
Carbon Tetrachloride	50	0	59	118	65-140
Chlorobenzene	50	0	52	104	80-120
Chloroethane	50	0	51	102	60-135
Chloroform	50	0	54	108	65-135
Chloromethane	50	0	62	124	40-125
Cyclohexane	50	0	54	108	50-120
Dibromochloromethane	50	0	51	102	60-135
Dibromomethane	50	0	47	94	75-125
Dichlorodifluoromethane	50	0	46	92	30-155
Ethylbenzene	50	0	50	100	75-125
Ethylene DiBromide	50	0	48	96	80-120
Freon 113	50	0	65	130	70-130
Hexachlorobutadiene	50	0	54	108	50-140
Isopropylbenzene	50	0	54	108	75-125
Methyl Acetate	50	0	53	106	50-120
Methylcyclohexane	50	0	53	106	50-120

* Values Outside of QC Limits.

Spike recovery : 1 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108905

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903098
Lab Sample ID : BKS108905
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	52	104	55-140
Naphthalene	50	0	49	98	55-140
Sec-Butylbenzene	50	0	54	108	70-125
Styrene	50	0	53	106	65-135
Tetrachloroethylene	50	0	57	114	45-150
Toluene	50	0	55	110	75-120
Trichloroethene	50	0	47	94	70-125
Trichlorofluoromethane	50	0	80	160 *	60-145
Vinyl Acetate	50	0	36	72	41-139
Vinyl Chloride	50	0	52	104	50-145
cis-1,2-Dichloroethene	50	0	54	108	70-125
cis-1,3-Dichloropropene	50	0	40	80	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	53	106	70-135
n-Propylbenzene	50	0	54	108	70-130
o-Xylene	50	0	52	104	80-120
tert-Butylbenzene	50	0	56	112	70-130
tert-butyl methyl ether	50	0	53	106	65-125
trans-1,2-dichloroethene	50	0	56	112	60-140
trans-1,3-dichloropropene	50	0	46	92	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	A62572.D	SDG NO :	903098
Date Analyzed	03/26/2009	Lab Sample ID :	BLK108893
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:33

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108893	BKS108893	A62570.D	10:52
OU1-16GW10-0309	903098-005-007-1/3	A62592.D	18:52
OU1-16GW11-0309	903098-002-040-1/9	A62586.D	16:49
OU1-52GW46-0309	903098-001-037-1/3	A62584.D	16:08
OU1-52GW46P-0309	903098-004-004-1/3	A62590.D	18:11
OU1-MW53-0309	903098-006-010-1/3	A62594.D	19:33
OU1-MW53P-0309	903098-007-013-1/3	A62596.D	20:14
OU1-MW59-0309	903098-003-001-1/3	A62588.D	17:30
OU1-TB08-0309	903098-013-022-1/3	A62578.D	13:55
OU1-TB09-0309	903098-014-025-1/3	A62580.D	14:47
OU1-TB10-0309	903098-015-028-1/3	A62582.D	15:28

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	A62606.D	SDG NO :	903098
Date Analyzed	03/26/2009	Lab Sample ID :	BLK108899
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	23:36

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108899	BKS108899	A62604.D	22:56
OU1-52GW61-0309	903098-010-031-1/3	A62612.D	01:38
OU1-52GW62-0309	903098-009-019-1/3	A62610.D	00:57
OU1-MW55-0309	903098-008-016-1/3	A62608.D	00:17
OU1-N4GW07-0309	903098-011-034-1/3	A62614.D	02:18
OU1-N4GW09-0309	903098-012-049-1/9	A62616.D	02:59

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Lab File ID :	A62638.D	SDG NO :	903098
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108905
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:46

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108905	BKS108905	A62636.D	11:06
OU1-16GW11-0309DLMS	903098-002-040-1/9MS	A62648.D	15:33
OU1-16GW11-0309DLMSD	903098-002-040-1/9MSD	A62650.D	16:13
OU1-52GW46-0309DL	903098-001-038-2/3	A62640.D	12:51
OU1-52GW46P-0309DL	903098-004-005-2/3	A62642.D	13:31
OU1-MW53-0309DL	903098-006-011-2/3	A62644.D	14:12
OU1-MW53P-0309DL	903098-007-014-2/3	A62646.D	14:52
OU1-N4GW09-0309MS	903098-012-049-1/9MS	A62652.D	16:54
OU1-N4GW09-0309MSD	903098-012-049-1/9MSD	A62654.D	17:34

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GPL LABORATORIES, LLC. Contract:

Lab Code: GPLL Case No.: SAS No.: SDG No.:

Lab File ID: A62206.D BFB Injection Date: 03/10/09

Instrument ID: HP#A BFB Injection Time: 07:55

GC Column: RTX_624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	51.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.1)1
174	50.0 - 120.0% of mass 95	78.5
175	4.0 - 9.0% of mass 174	5.9 (7.5)1
176	93.0 - 101.0% of mass 174	79.2 (100.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL01	CAL01	A62208.D	03/10/09	09:10
02	CAL05	CAL05	A62210.D	03/10/09	09:51
03	CAL20	CAL20	A62212.D	03/10/09	11:24
04	CAL50	CAL50	A62214.D	03/10/09	12:04
05	CAL100	CAL100	A62216.D	03/10/09	13:09
06	CAL200	CAL200	A62220.D	03/10/09	14:43
07	ICV50	BKS/ICV50	A62242.D	03/11/09	12:15

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62566.D BFB Injection Date : 03/26/2009 BFB Injection Time : 08:47

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.3	
75	30.0 - 60.0% of mass 95	52.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	1.6	(1.6)1
174	50.0 - 120.0% of mass 95	97.0	
175	5.0 - 9.0% of mass 174	8.3	(8.5)1
176	95.0 - 101.0% of mass 174	93.5	(96.4)1
177	5.0 - 9.0% of mass 176	6.6	(7.1)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62568.D	03/26/2009	09:41
2	BKS108893	BKS108893	A62570.D	03/26/2009	10:52
3	BLK108893	BLK108893	A62572.D	03/26/2009	11:33
4	OU1-TB08-0309	903098-013-022-1/3	A62578.D	03/26/2009	13:55
5	OU1-TB09-0309	903098-014-025-1/3	A62580.D	03/26/2009	14:47
6	OU1-TB10-0309	903098-015-028-1/3	A62582.D	03/26/2009	15:28
7	OU1-52GW46-0309	903098-001-037-1/3	A62584.D	03/26/2009	16:08
8	OU1-16GW11-0309	903098-002-040-1/9	A62586.D	03/26/2009	16:49
9	OU1-MW59-0309	903098-003-001-1/3	A62588.D	03/26/2009	17:30
10	OU1-52GW46P-0309	903098-004-004-1/3	A62590.D	03/26/2009	18:11
11	OU1-16GW10-0309	903098-005-007-1/3	A62592.D	03/26/2009	18:52
12	OU1-MW53-0309	903098-006-010-1/3	A62594.D	03/26/2009	19:33
13	OU1-MW53P-0309	903098-007-013-1/3	A62596.D	03/26/2009	20:14

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62600.D BFB Injection Date : 03/26/2009 BFB Injection Time : 21:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.7	
75	30.0 - 60.0% of mass 95	52.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	1.9	(1.9)1
174	50.0 - 120.0% of mass 95	98.7	
175	5.0 - 9.0% of mass 174	8.4	(8.5)1
176	95.0 - 101.0% of mass 174	97.1	(98.3)1
177	5.0 - 9.0% of mass 176	7.3	(7.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62602.D	03/26/2009	22:16
2	BKS108899	BKS108899	A62604.D	03/26/2009	22:56
3	BLK108899	BLK108899	A62606.D	03/26/2009	23:36
4	OU1-MW55-0309	903098-008-016-1/3	A62608.D	03/27/2009	00:17
5	OU1-52GW62-0309	903098-009-019-1/3	A62610.D	03/27/2009	00:57
6	OU1-52GW61-0309	903098-010-031-1/3	A62612.D	03/27/2009	01:38
7	OU1-N4GW07-0309	903098-011-034-1/3	A62614.D	03/27/2009	02:18
8	OU1-N4GW09-0309	903098-012-049-1/9	A62616.D	03/27/2009	02:59

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62630.D BFB Injection Date : 03/27/2009 BFB Injection Time : 08:38

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.1	
75	30.0 - 60.0% of mass 95	50.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	1.6	(1.7)1
174	50.0 - 120.0% of mass 95	95.2	
175	5.0 - 9.0% of mass 174	8.2	(8.6)1
176	95.0 - 101.0% of mass 174	94.1	(98.8)1
177	5.0 - 9.0% of mass 176	6.4	(6.8)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62634.D	03/27/2009	10:25
2	BKS108905	BKS108905	A62636.D	03/27/2009	11:06
3	BLK108905	BLK108905	A62638.D	03/27/2009	11:46
4	OU1-52GW46-0309DL	903098-001-038-2/3	A62640.D	03/27/2009	12:51
5	OU1-52GW46P-0309DL	903098-004-005-2/3	A62642.D	03/27/2009	13:31
6	OU1-MW53-0309DL	903098-006-011-2/3	A62644.D	03/27/2009	14:12
7	OU1-MW53P-0309DL	903098-007-014-2/3	A62646.D	03/27/2009	14:52
8	OU1-16GW11-0309DLMS	903098-002-040-1/9MS	A62648.D	03/27/2009	15:33
9	OU1-16GW11-0309DLMSD	903098-002-040-1/9MSD	A62650.D	03/27/2009	16:13
10	OU1-N4GW09-0309MS	903098-012-049-1/9MS	A62652.D	03/27/2009	16:54
11	OU1-N4GW09-0309MSD	903098-012-049-1/9MSD	A62654.D	03/27/2009	17:34

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62568.D Date Analyzed: 03/26/2009 Time Analyzed: 09:41

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	270471	04.69	315637	07.78	303343	04.56
UPPER LIMIT	540942	05.19	631274	08.28	606686	05.06
LOWER LIMIT	135236	04.19	157819	07.28	151672	04.06
Client Sample						
BKS108893	1485089*	05.00	284924	07.88	1283356*	04.86
BLK108893	241357	04.69	259746	07.78	269319	04.56
OU1-16GW10-0309	254979	04.69	271183	07.78	276931	04.56
OU1-16GW11-0309	250475	04.69	263906	07.78	271116	04.57
OU1-52GW46-0309	233827	04.69	252227	07.78	257748	04.56
OU1-52GW46P-0309	311594	04.69	314857	07.78	338553	04.57
OU1-MW53-0309	213117	04.69	229183	07.78	228541	04.56
OU1-MW53P-0309	249540	04.69	262751	07.78	271645	04.57
OU1-MW59-0309	242601	04.68	255303	07.78	261611	04.56
OU1-TB08-0309	254791	04.69	272156	07.78	274495	04.56
OU1-TB09-0309	248779	04.69	266301	07.78	269403	04.56
OU1-TB10-0309	249772	04.69	269939	07.78	268912	04.57

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62602.D Date Analyzed: 03/26/2009 Time Analyzed: 22:16

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	250888	04.69	287510	07.78	274068	04.56
UPPER LIMIT	501776	05.19	575020	08.28	548136	05.06
LOWER LIMIT	125444	04.19	143755	07.28	137034	04.06
Client Sample						
BKS108899	274515	04.69	304718	07.78	296713	04.56
BLK108899	271000	04.69	278286	07.78	292461	04.56
OU1-52GW61-0309	248559	04.69	256166	07.78	263414	04.56
OU1-52GW62-0309	197100	04.68	213789	07.78	217379	04.56
OU1-MW55-0309	243534	04.69	251037	07.78	257102	04.56
OU1-N4GW07-0309	233634	04.69	250923	07.78	252090	04.56
OU1-N4GW09-0309	229570	04.69	240402	07.78	249391	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903098

Lab File ID: A62634.D Date Analyzed: 03/27/2009 Time Analyzed: 10:25

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	501933	04.69	502179	07.79	552639	04.56
UPPER LIMIT	1003866	05.19	1004358	08.29	1105278	05.06
LOWER LIMIT	250967	04.19	251090	07.29	276320	04.06
Client Sample						
BKS108905	468985	04.69	477046	07.78	520085	04.56
BLK108905	372311	04.69	358557	07.78	402942	04.56
OU1-16GW11-0309DLMS	473085	04.69	489139	07.78	522437	04.56
OU1-16GW11-0309DLMSD	450263	04.69	475206	07.79	505520	04.56
OU1-52GW46-0309DL	502426	04.69	463937	07.78	537499	04.56
OU1-52GW46P-0309DL	400654	04.69	377152	07.78	438274	04.56
OU1-MW53-0309DL	357814	04.68	345511	07.78	394765	04.56
OU1-MW53P-0309DL	396136	04.69	378812	07.78	433551	04.56
OU1-N4GW09-0309MS	2214970*	04.67	449735	07.77	2007104*	04.55
OU1-N4GW09-0309MSD	456303	04.69	483873	07.79	514652	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62584.D
Acq On : 26 Mar 2009 4:08 pm
Operator : SM
Sample : 903098-001
Misc : OUI-52GW46-0309,CH2M HILL,10X
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Mar 31 08:20:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

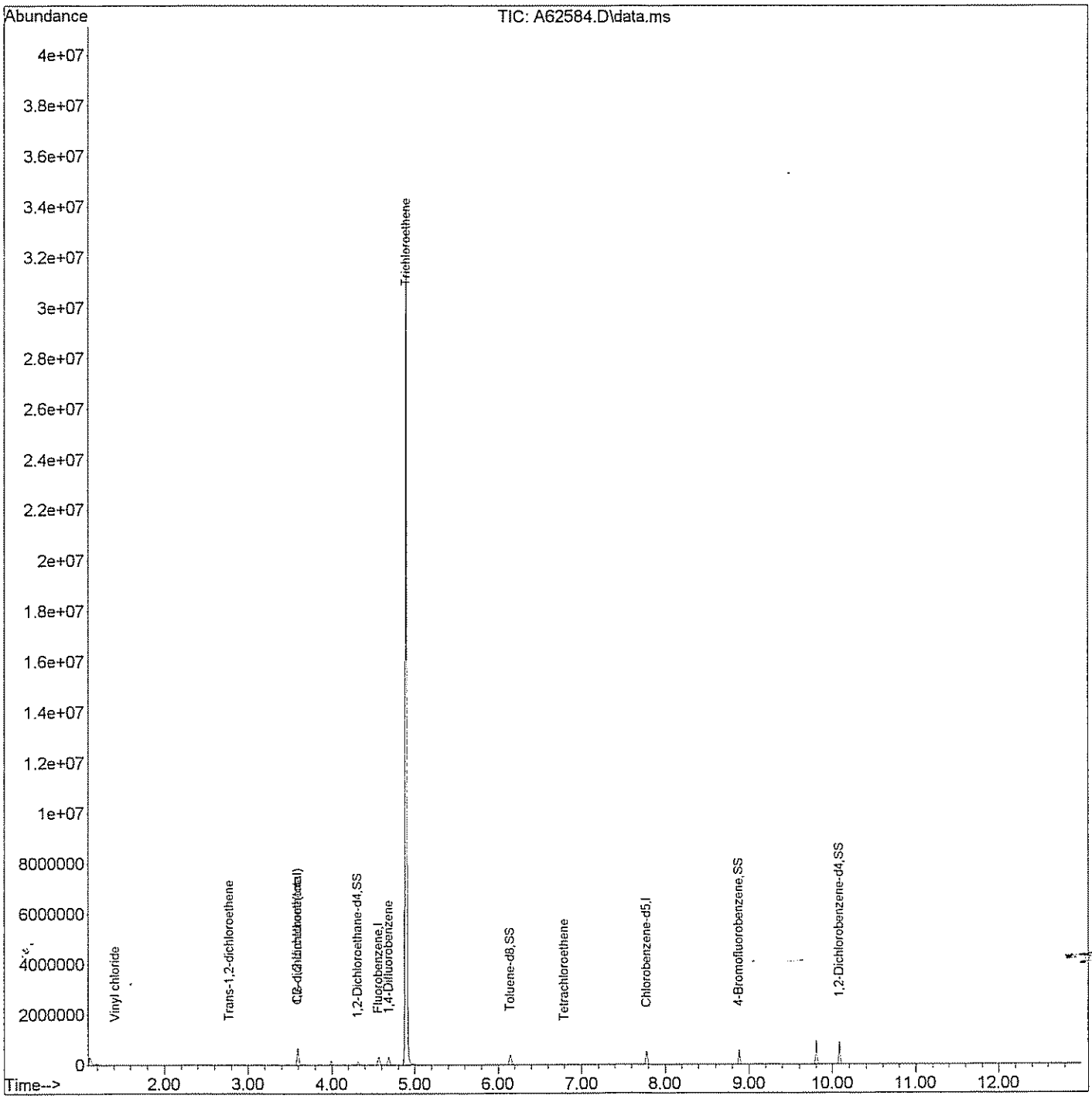
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	257748	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	233827	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	252227	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	70205	49.30	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.60%			
53) Toluene-d8	6.148	98	241194	46.47	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 92.94%			
75) 4-Bromofluorobenzene	8.881	95	114885	45.90	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 91.80%			
91) 1,2-Dichlorobenzene-d4	10.085	152	160884	58.92	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.84%			
Target Compounds						Qvalue
4) Vinyl chloride	1.419	62	2631	6.85	ug/L #	48
16) Trans-1,2-dichloroethene	2.777	96	4732	4.59	ug/L #	73
28) Cis-1,2-dichloroethene	3.591	96	231886	189.15	ug/L	81
29) 1,2-dichloroethene(total)	3.591	96	238047m	212.66	ug/L	
46) Trichloroethene	4.901	95	6463200	5001.18	ug/L #	60
61) Tetrachloroethene	6.795	166	1867	1.40	ug/L	99

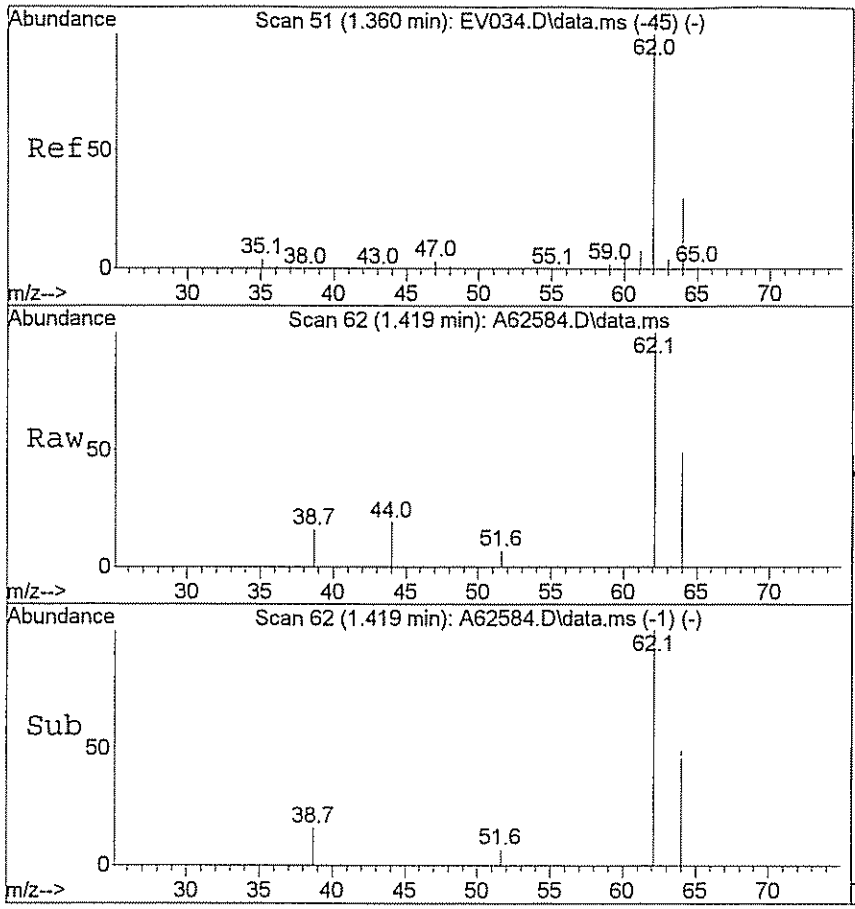
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62584.D
Acq On : 26 Mar 2009 4:08 pm
Operator : SM
Sample : 903098-001
Misc : OUI-52GW46-0309,CH2M HILL,10X
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Mar 31 08:20:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

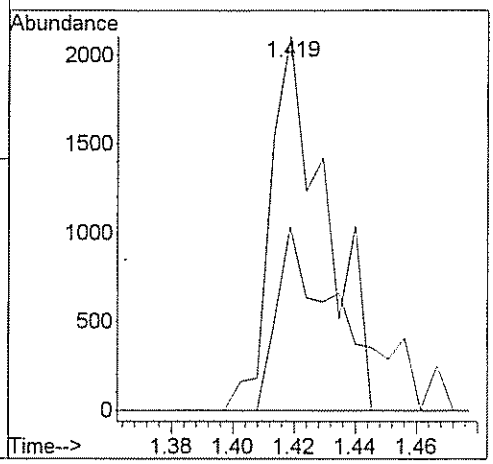


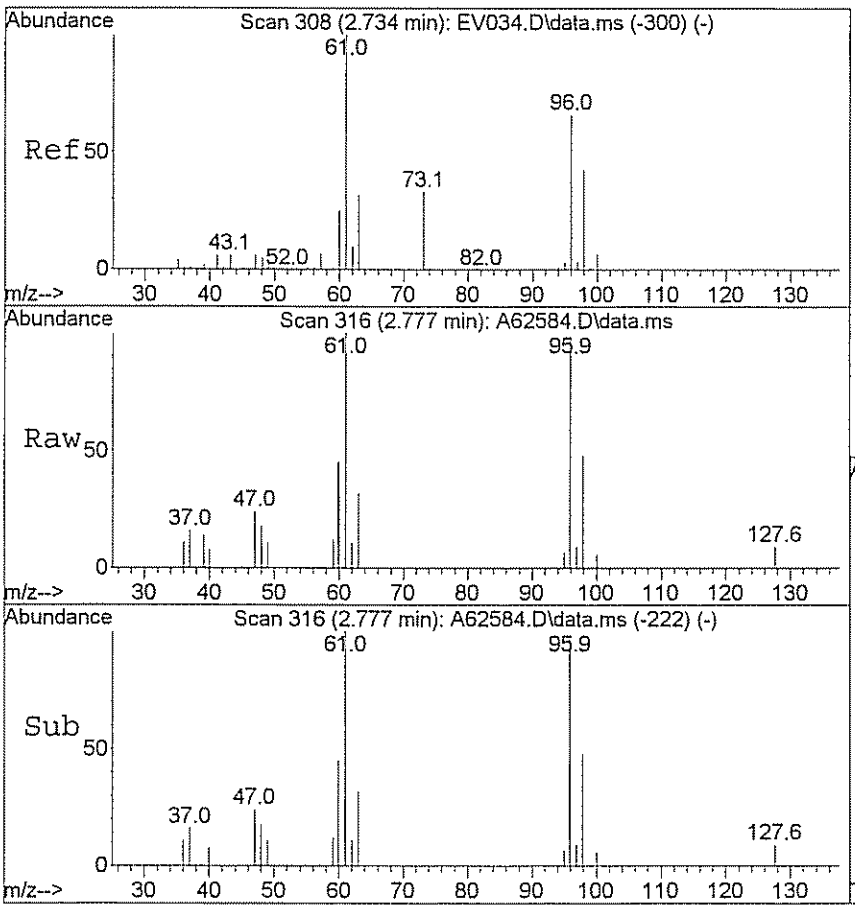


#4
Vinyl chloride
Concen: 6.85 ug/L
RT: 1.419 min Scan# 62
Delta R.T. 0.006 min
Lab File: A62584.D
Acq: 26 Mar 2009 4:08 pm

Tgt Ion: 62 Resp: 2631

Ion	Ratio	Lower	Upper
62	100		
64	59.1	24.5	36.7#

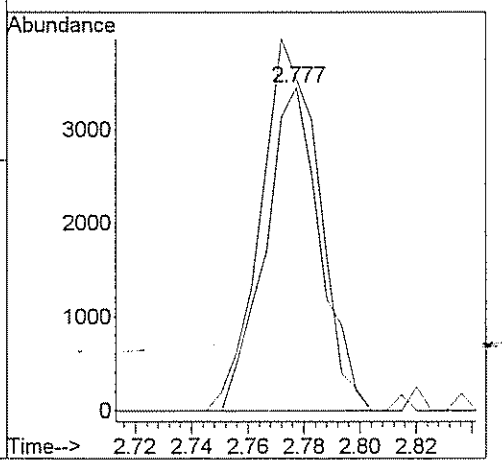


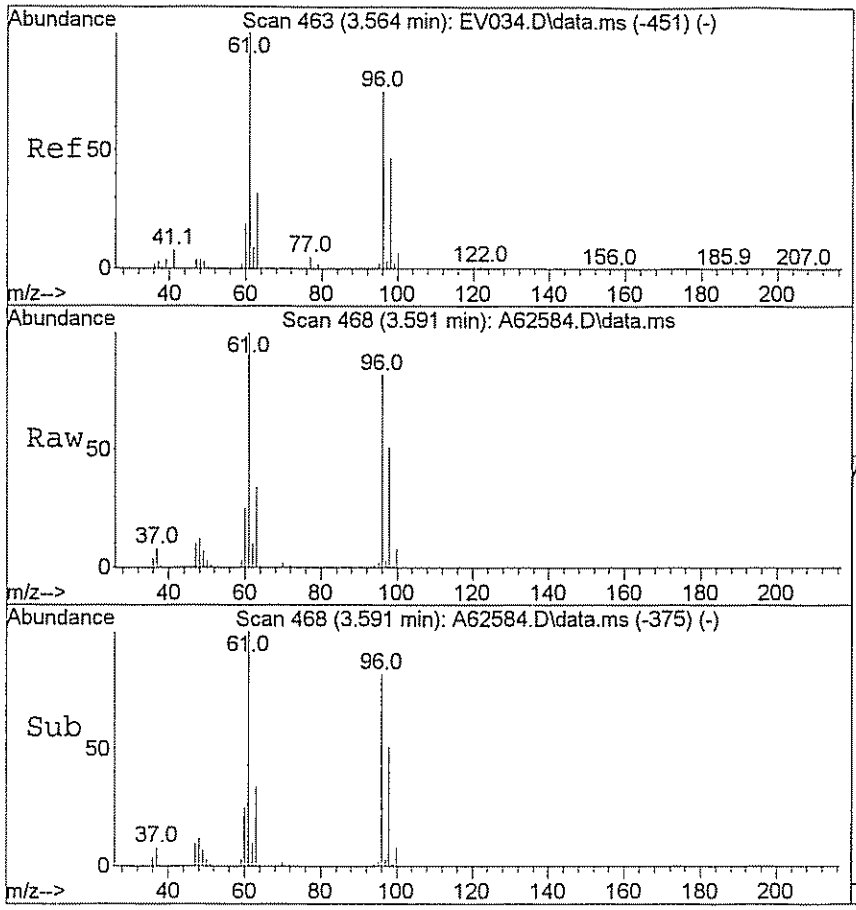


#16
Trans-1,2-dichloroethene
Concen: 4.59 ug/L
RT: 2.777 min Scan# 316
Delta R.T. 0.005 min
Lab File: A62584.D
Acq: 26 Mar 2009 4:08 pm

Tgt Ion: 96 Resp: 4732

Ion	Ratio	Lower	Upper
96	100		
61	119.9	124.0	186.0#

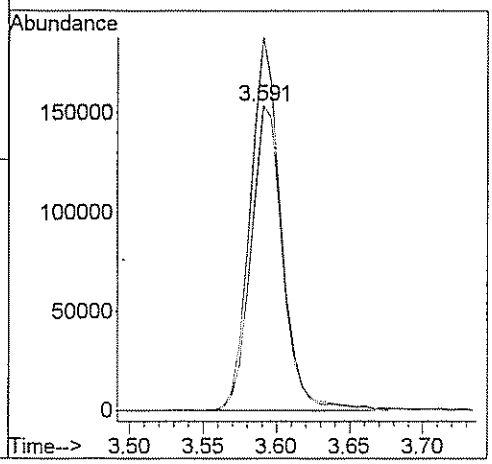


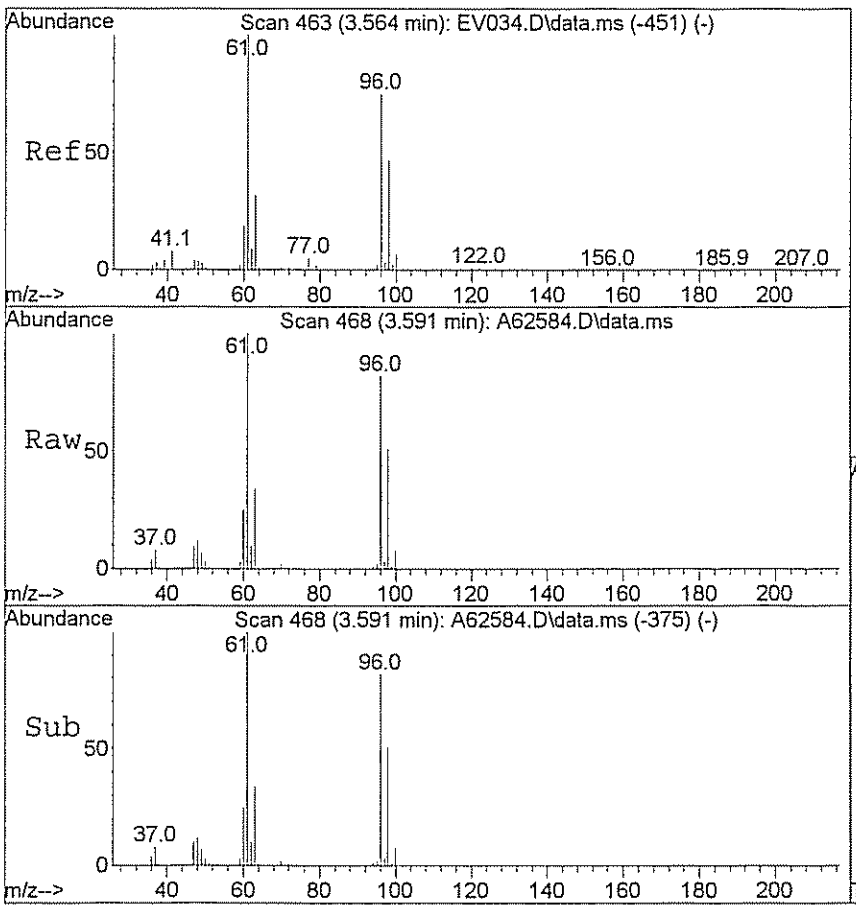


#28
Cis-1,2-dichloroethene
Concen: 189.15 ug/L
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62584.D
Acq: 26 Mar 2009 4:08 pm

Tgt Ion: 96 Resp: 231886

Ion	Ratio	Lower	Upper
96	100		
61	119.9	115.0	172.6

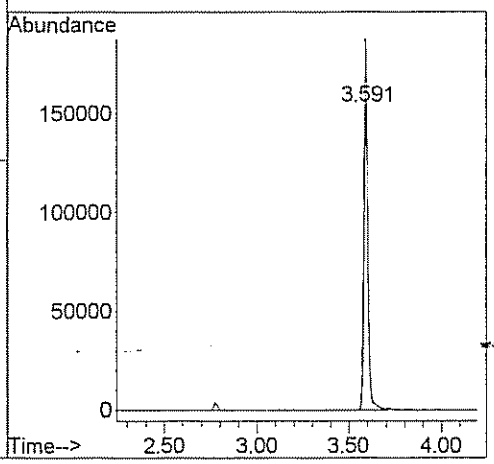


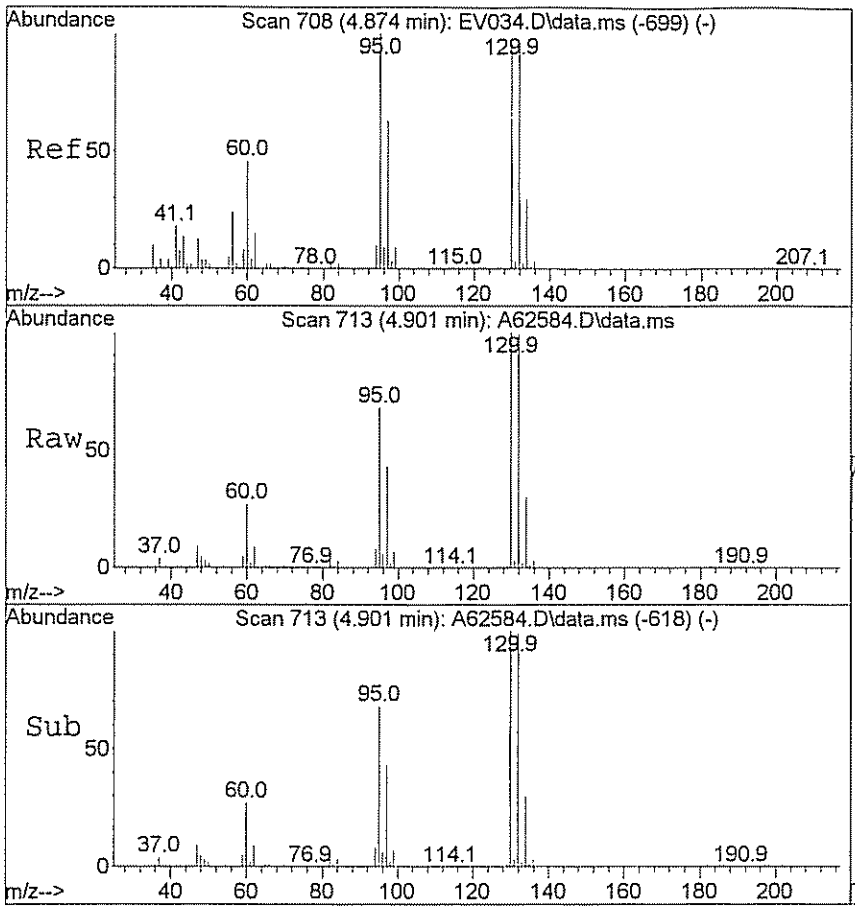


#29
1,2-dichloroethene(total)
Concen: 212.66 ug/L m
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62584.D
Acq: 26 Mar 2009 4:08 pm

Tgt Ion: 96 Resp: 238047

Ion	Ratio	Lower	Upper
96	100		
61	116.8	115.0	172.6

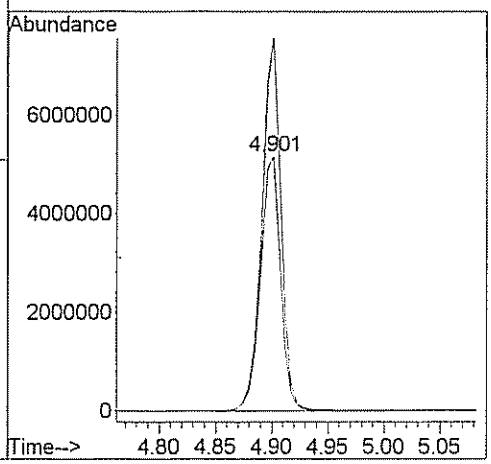


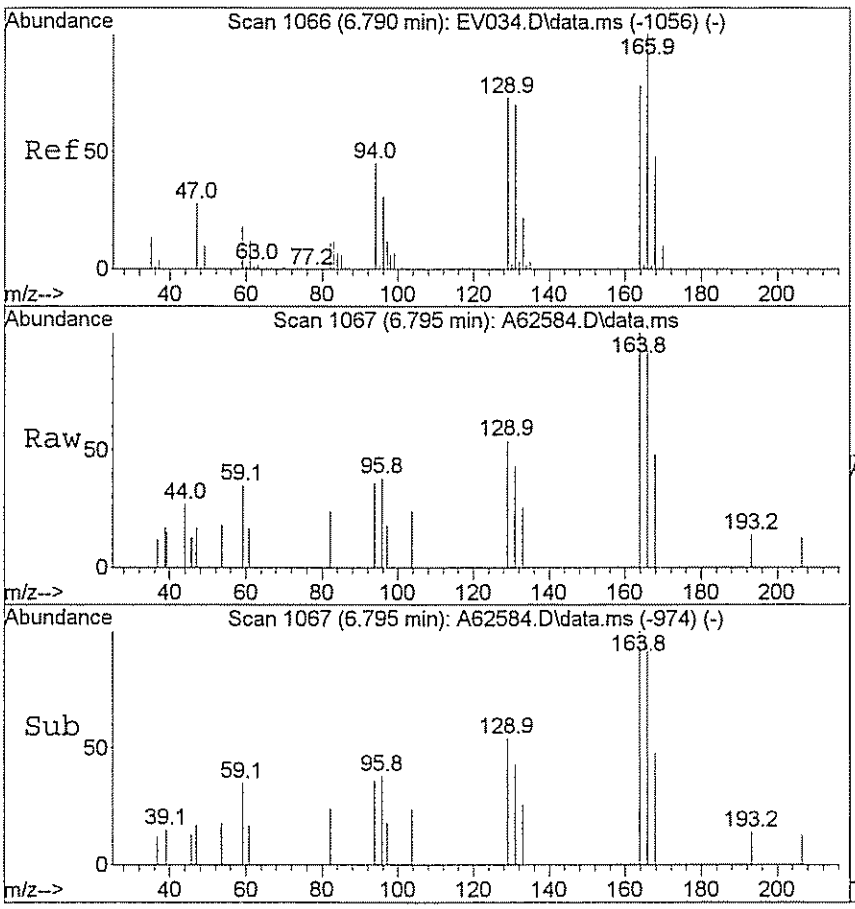


#46
Trichloroethene
Concen: 5001.18 ug/L
RT: 4.901 min Scan# 713
Delta R.T. 0.011 min
Lab File: A62584.D
Acq: 26 Mar 2009 4:08 pm

Tgt Ion: 95 Resp: 6463200

Ion	Ratio	Lower	Upper
95	100		
130	139.1	79.7	119.5#

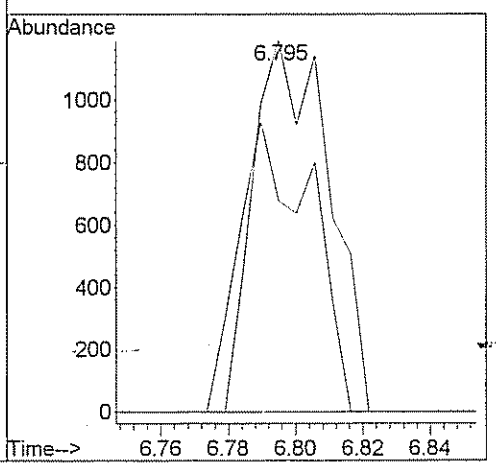




#61
Tetrachloroethene
Concen: 1.40 ug/L
RT: 6.795 min Scan# 1067
Delta R.T. -0.000 min
Lab File: A62584.D
Acq: 26 Mar 2009 4:08 pm

Tgt Ion:166 Resp: 1867

Ion	Ratio	Lower	Upper
166	100		
129	74.3	58.6	88.0



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-037-1/3
Sample Volume :	.5	Lab File ID :	A62584.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-037-1/3
Sample Volume :	.5	Lab File ID :	A62584.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	10	U
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	14	
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	50000	E
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-037-1/3
Sample Volume :	.5	Lab File ID :	A62584.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	68	
156-59-2	cis-1,2-Dichloroethene	1900	
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	46	
10061-02-6	trans-1,3-dichloropropene	10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-038-2/3
Sample Volume :	.005	Lab File ID :	A62640.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1000
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1000	U
71-55-6	1,1,1-Trichloroethane	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
75-34-3	1,1-Dichloroethane	1000	U
75-35-4	1,1-Dichloroethene	1000	U
563-58-6	1,1-Dichloropropene	1000	U
87-61-6	1,2,3-Trichlorobenzene	1000	U
96-18-4	1,2,3-Trichloropropane	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
95-63-6	1,2,4-Trimethylbenzene	1000	U
96-12-8	1,2-Dibromo-3-Chloropropane	2000	U
95-50-1	1,2-Dichlorobenzene	1000	U
107-06-2	1,2-Dichloroethane	1000	U
78-87-5	1,2-Dichloropropane	1000	U
108-67-8	1,3,5-trimethylbenzene	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
142-28-9	1,3-Dichloropropane	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
594-20-7	2,2-Dichloropropane	1000	U
78-93-3	2-Butanone	5000	U
95-49-8	2-Chlorotoluene	1000	U
591-78-6	2-Hexanone	5000	U
106-43-4	4-Chlorotoluene	1000	U
99-87-6	4-Isopropyltoluene	1000	U
108-10-1	4-Methyl-2-Pentanone	5000	U
67-64-1	Acetone	5000	U
71-43-2	Benzene	1000	U
108-86-1	Bromobenzene	1000	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-038-2/3
Sample Volume :	.005	Lab File ID :	A62640.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1000
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1000	U
75-27-4	Bromodichloromethane	1000	U
75-25-2	Bromoform	1000	U
74-83-9	Bromomethane	1000	U
75-15-0	Carbon Disulfide	1000	U
56-23-5	Carbon Tetrachloride	1000	U
108-90-7	Chlorobenzene	1000	U
75-00-3	Chloroethane	1000	U
67-66-3	Chloroform	1000	U
74-87-3	Chloromethane	1000	U
110-82-7	Cyclohexane	1000	U
124-48-1	Dibromochloromethane	1000	U
74-95-3	Dibromomethane	1000	U
75-71-8	Dichlorodifluoromethane	1000	U
100-41-4	Ethylbenzene	1000	U
106-93-4	Ethylene DiBromide	1000	U
76-13-1	Freon 113	1000	U
87-68-3	Hexachlorobutadiene	1000	U
98-82-8	Isopropylbenzene	1000	U
79-20-9	Methyl Acetate	1000	U
108-87-2	Methylcyclohexane	1000	U
75-09-2	Methylene Chloride	1000	U
91-20-3	Naphthalene	1000	U
135-98-8	Sec-Butylbenzene	1000	U
100-42-5	Styrene	1000	U
127-18-4	Tetrachloroethylene	1000	U
108-88-3	Toluene	1000	U
79-01-6	Trichloroethene	17000	
75-69-4	Trichlorofluoromethane	1000	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-038-2/3
Sample Volume :	.005	Lab File ID :	A62640.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1000
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1000	U
75-01-4	Vinyl Chloride	1000	U
156-59-2	cis-1,2-Dichloroethene	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
136777-61-2	m,p-Xylene	1000	U
104-51-8	n-Butylbenzene	1000	U
103-65-1	n-Propylbenzene	1000	U
95-47-6	o-Xylene	1000	U
98-06-6	tert-Butylbenzene	1000	U
1634-04-4	tert-butyl methyl ether	1000	U
156-60-5	trans-1,2-dichloroethene	1000	U
10061-02-6	trans-1,3-dichloropropene	1000	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62640.D
Acq On : 27 Mar 2009 12:51 pm
Operator : SM
Sample : 903098-001
Misc : OUI-52GW46-0309,CH2M HILL,1000X
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 31 10:47:57 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

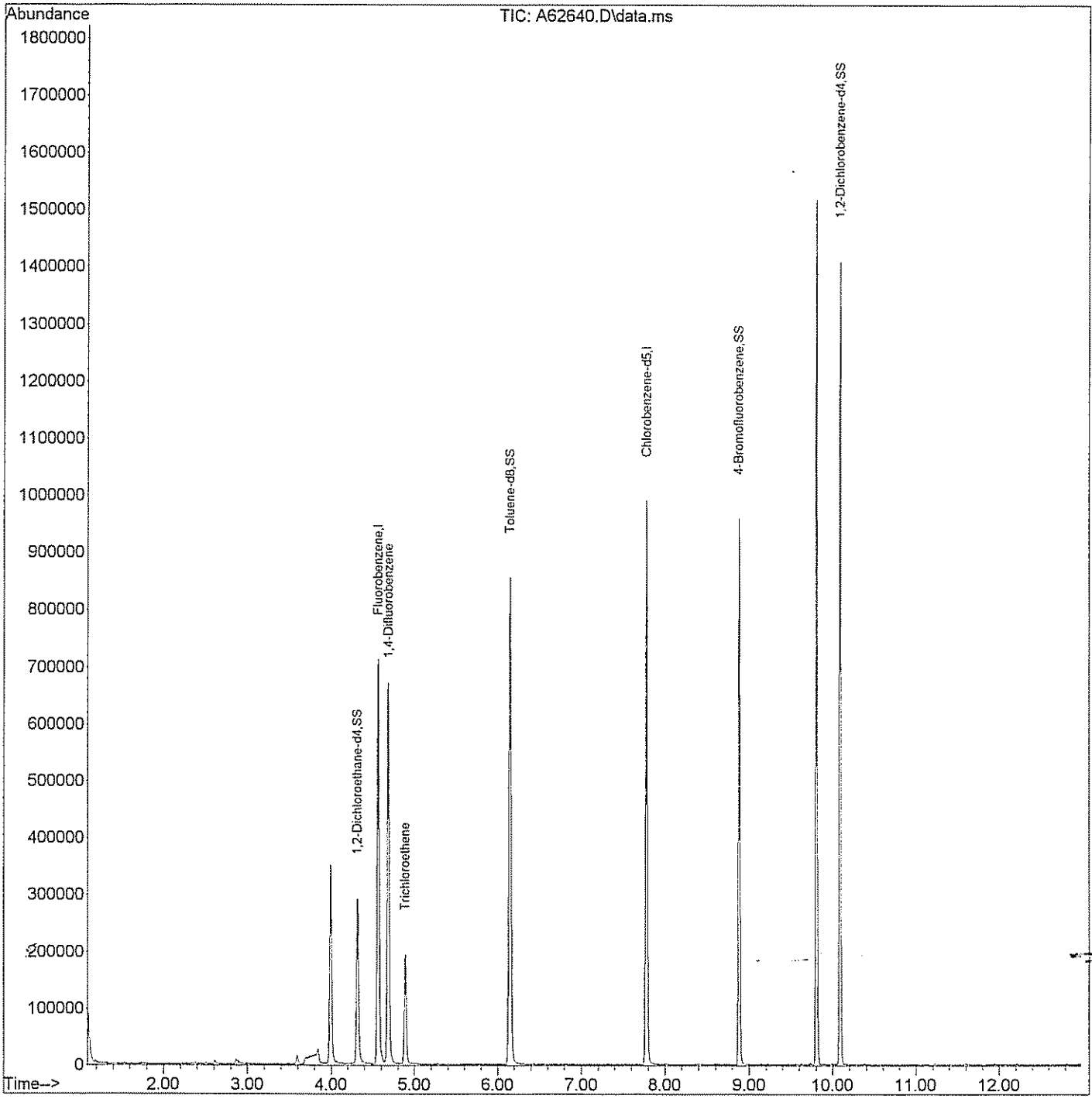
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	537499	50.00	ug/L	# 0.00
40) 1,4-Difluorobenzene	4.687	114	502426	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	463937	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	158873	53.50	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 107.00%			
53) Toluene-d8	6.148	98	522879	46.89	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 93.78%			
75) 4-Bromofluorobenzene	8.881	95	195935	42.56	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 85.12%			
91) 1,2-Dichlorobenzene-d4	10.085	152	239686	47.72	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 95.44%			
Target Compounds						Qvalue
46) Trichloroethene	4.891	95	48431	17.44	ug/L	84

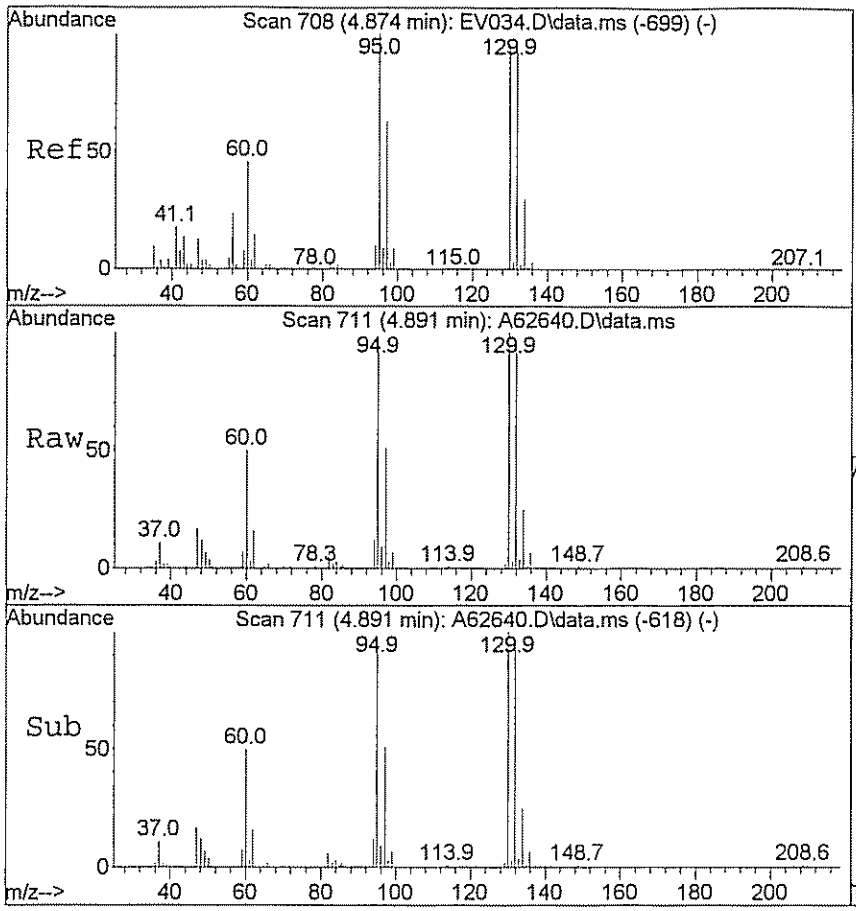
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62640.D
Acq On : 27 Mar 2009 12:51 pm
Operator : SM
Sample : 903098-001
Misc : OUI-52GW46-0309,CH2M HILL,1000X
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 31 10:47:57 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

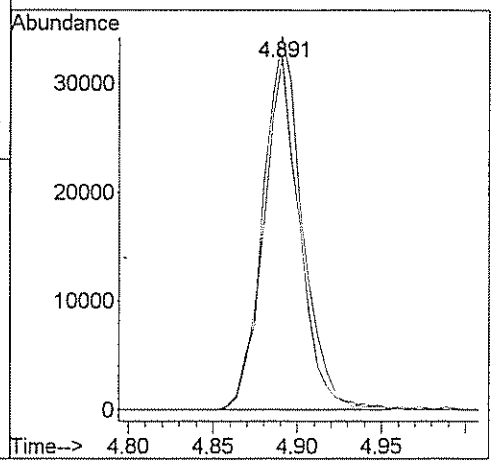




#46
Trichloroethene
Concen: 17.44 ug/L
RT: 4.891 min Scan# 711
Delta R.T. 0.000 min
Lab File: A62640.D
Acq: 27 Mar 2009 12:51 pm

Tgt Ion: 95 Resp: 48431

Ion	Ratio	Lower	Upper
95	100		
130	115.5	79.7	119.5



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9
Sample Volume :	.5	Lab File ID :	A62586.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9
Sample Volume :	.5	Lab File ID :	A62586.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	10	U
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	10	U
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	210	
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9
Sample Volume :	.5	Lab File ID :	A62586.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62586.D
Acq On : 26 Mar 2009 4:49 pm
Operator : SM
Sample : 903098-002
Misc : OUI-16GW11-0309,CH2M HILL,10X
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Mar 31 08:17:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

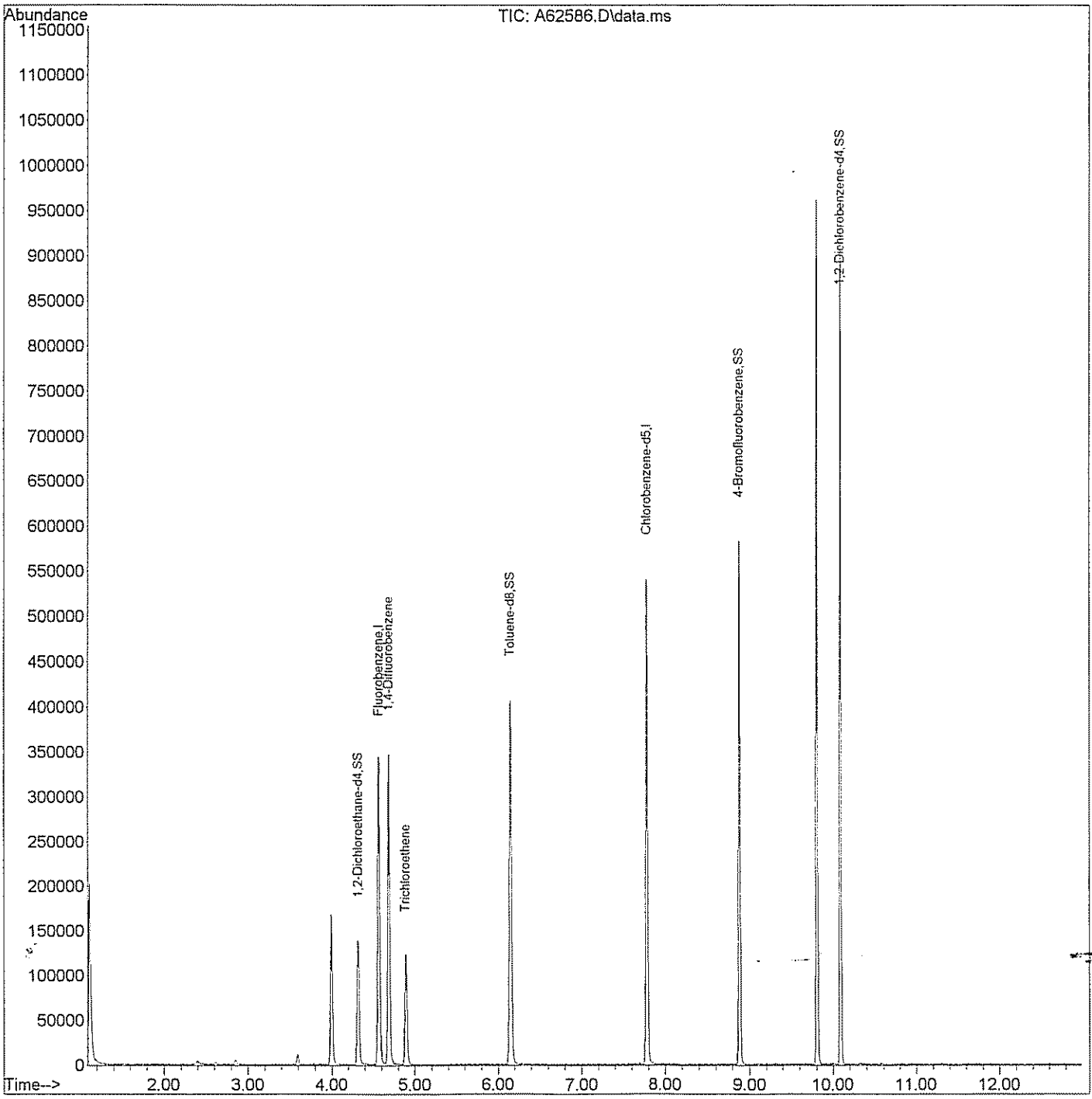
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.569	96	271116	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	250475	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	263906	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	74041	49.43	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.86%			
53) Toluene-d8	6.148	98	245136	44.09	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 88.18%			
75) 4-Bromofluorobenzene	8.881	95	120475	46.00	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 92.00%			
91) 1,2-Dichlorobenzene-d4	10.085	152	168682	59.04	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.08%			
Target Compounds						Qvalue
46) Trichloroethene	4.890	95	29241m	21.12	ug/L	

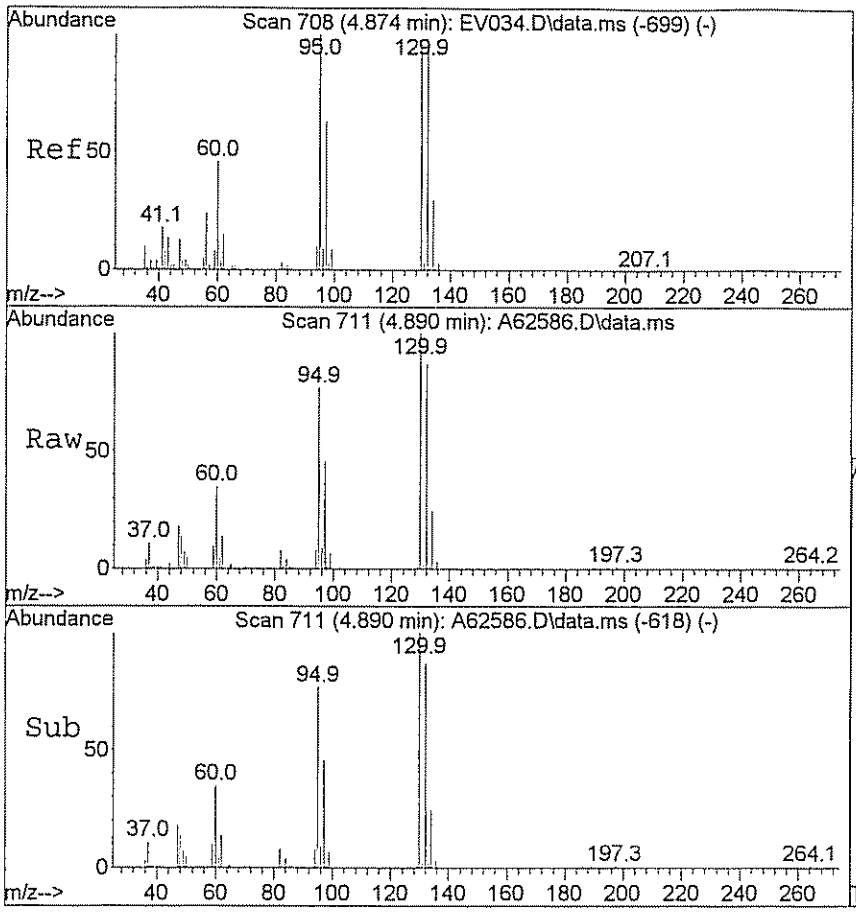
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62586.D
Acq On : 26 Mar 2009 4:49 pm
Operator : SM
Sample : 903098-002
Misc : OUI-16GW11-0309,CH2M HILL,10X
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Mar 31 08:17:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

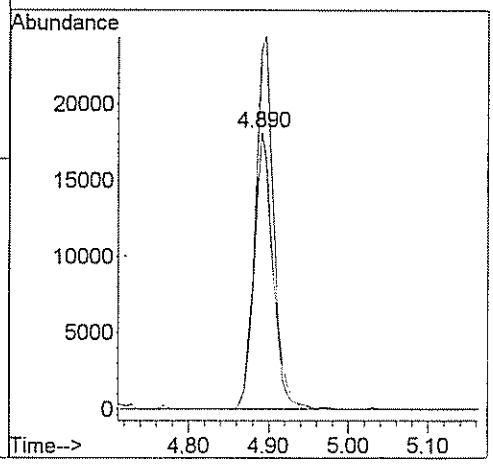




#46
Trichloroethene
Concen: 21.12 ug/L m
RT: 4.890 min Scan# 711
Delta R.T. -0.000 min
Lab File: A62586.D
Acq: 26 Mar 2009 4:49 pm

Tgt Ion: 95 Resp: 29241

Ion	Ratio	Lower	Upper
95	100		
130	0.0	79.7	119.5#



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-001-1/3
Sample Volume :	5	Lab File ID :	A62588.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	46	
75-35-4	1,1-Dichloroethene	110	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-001-1/3
Sample Volume :	5	Lab File ID :	A62588.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	5.7	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-001-1/3
Sample Volume :	5	Lab File ID :	A62588.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	160	
156-59-2	cis-1,2-Dichloroethene	190	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	46	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62588.D
Acq On : 26 Mar 2009 5:30 pm
Operator : SM
Sample : 903098-003
Misc : OUI-MW59-0309,CH2M HILL,WATER
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Mar 31 08:16:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

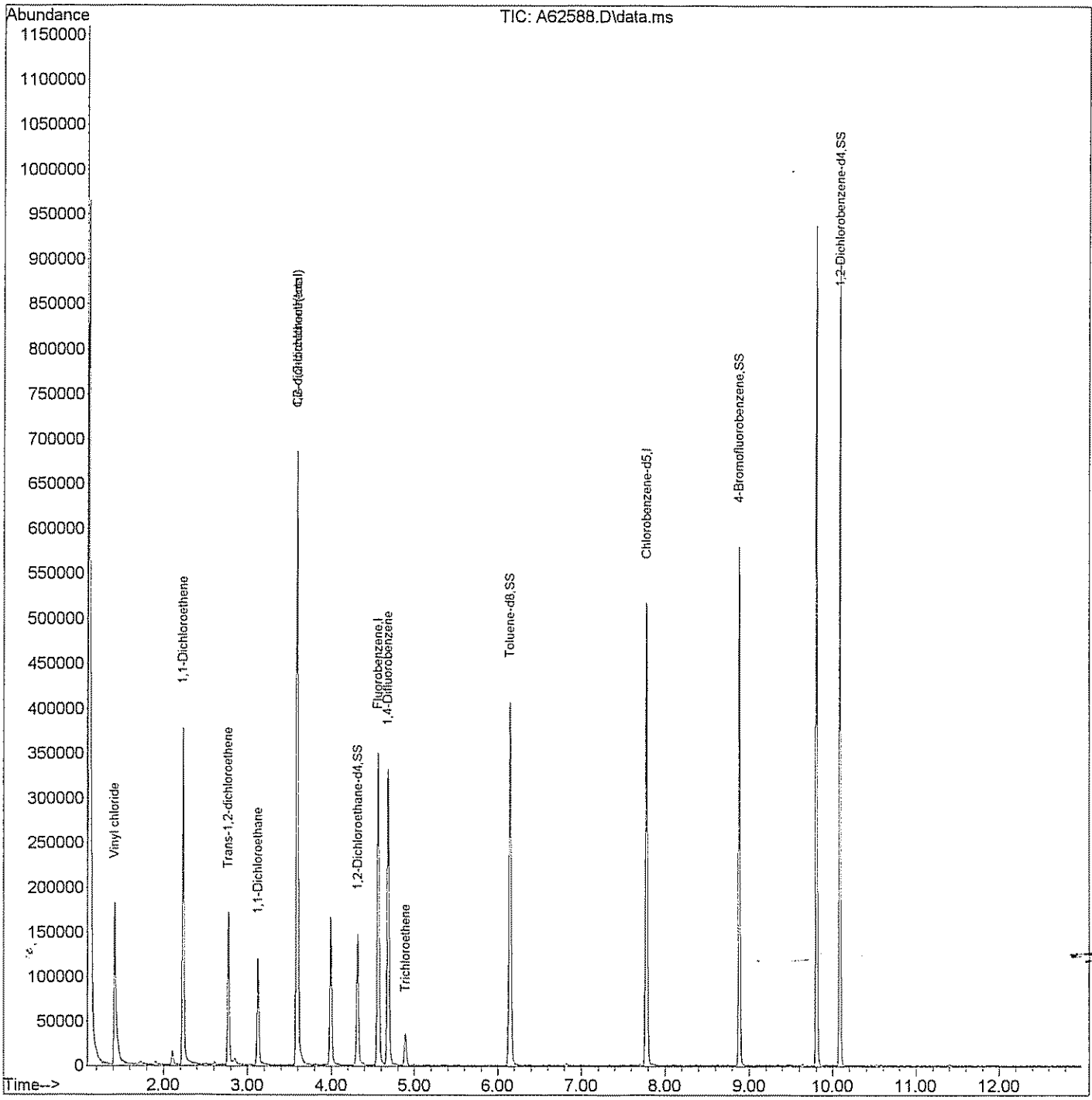
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	261611	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.682	114	242601	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	255303	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	71600	49.54	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.08%			
53) Toluene-d8	6.148	98	241660	44.88	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 89.76%			
75) 4-Bromofluorobenzene	8.881	95	119938	47.34	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.68%			
91) 1,2-Dichlorobenzene-d4	10.085	152	163963	59.32	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.64%			
Target Compounds						Qvalue
4) Vinyl chloride	1.419	62	187927	155.85	ug/L	99
12) 1,1-Dichloroethene	2.232	96	103509	107.58	ug/L	83
16) Trans-1,2-dichloroethene	2.772	96	47884	45.76	ug/L	79
18) 1,1-Dichloroethane	3.125	63	84828	45.53	ug/L	98
28) Cis-1,2-dichloroethene	3.590	96	233941	188.00	ug/L	82
29) 1,2-dichloroethene(total)	3.590	96	286803m	252.44	ug/L	
46) Trichloroethene	4.896	95	7687m	5.73	ug/L	

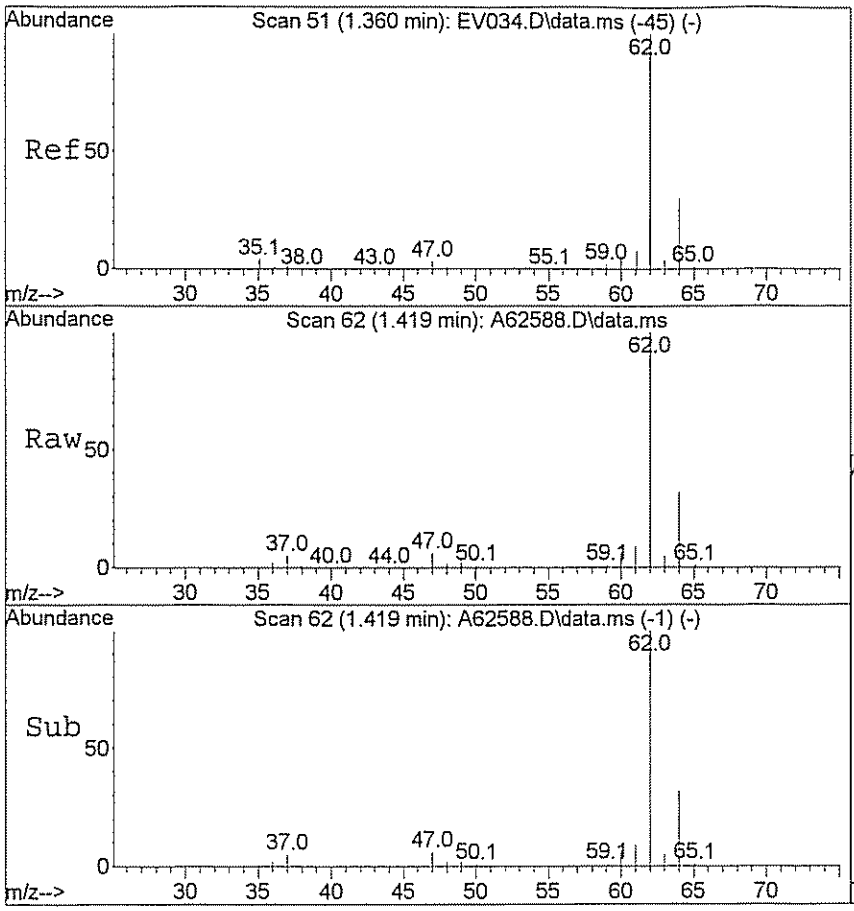
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62588.D
Acq On : 26 Mar 2009 5:30 pm
Operator : SM
Sample : 903098-003
Misc : OUI-MW59-0309,CH2M HILL,WATER
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Mar 31 08:16:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

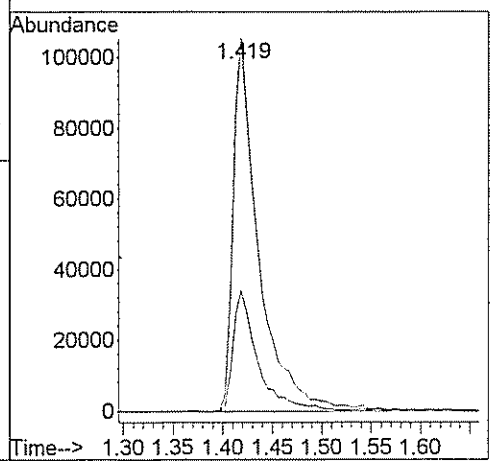


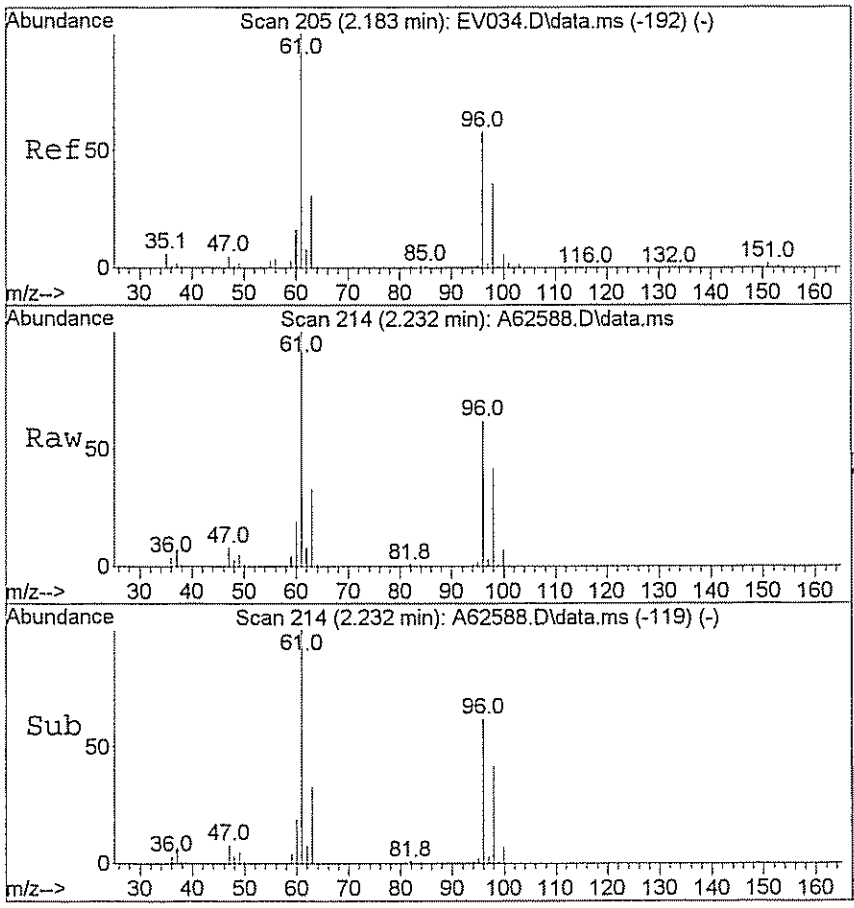


#4
Vinyl chloride
Concen: 155.85 ug/L
RT: 1.419 min Scan# 62
Delta R.T. 0.006 min
Lab File: A62588.D
Acq: 26 Mar 2009 5:30 pm

Tgt Ion: 62 Resp: 187927

Ion	Ratio	Lower	Upper
62	100		
64	31.0	24.5	36.7

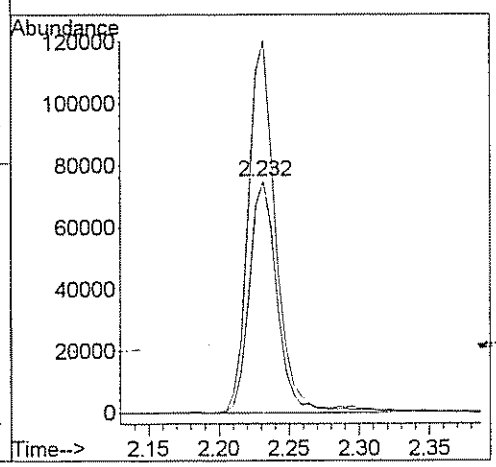


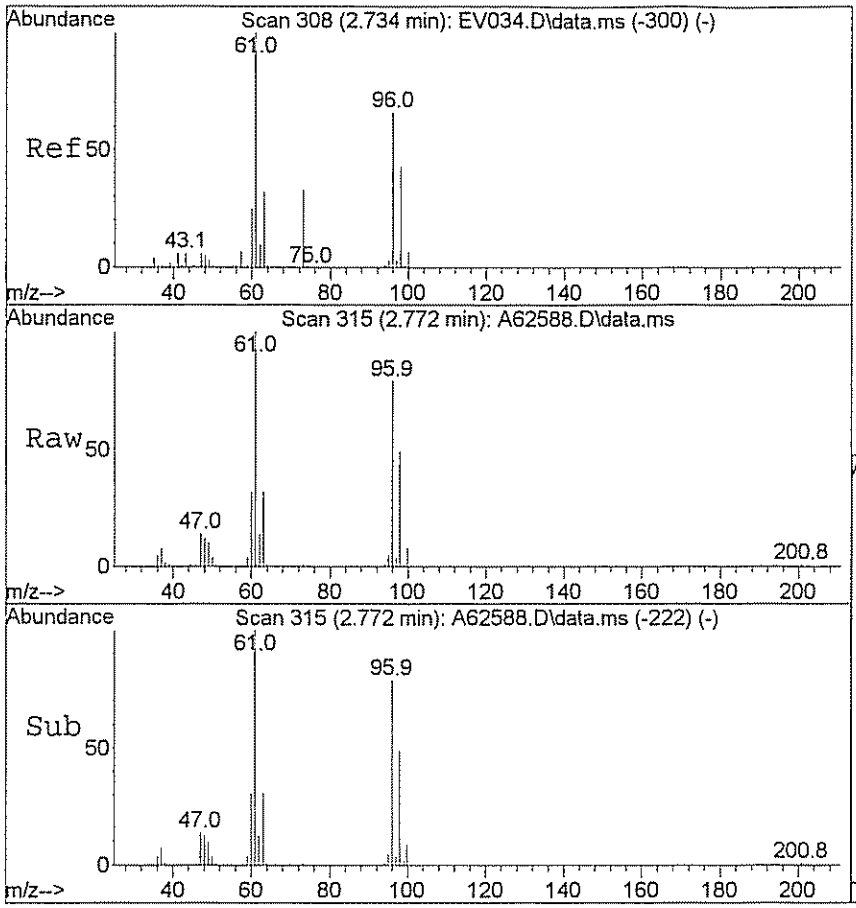


#12
1,1-Dichloroethene
Concen: 107.58 ug/L
RT: 2.232 min Scan# 214
Delta R.T. 0.006 min
Lab File: A62588.D
Acq: 26 Mar 2009 5:30 pm

Tgt Ion: 96 Resp: 103509

Ion	Ratio	Lower	Upper
96	100		
61	154.5	142.8	214.2

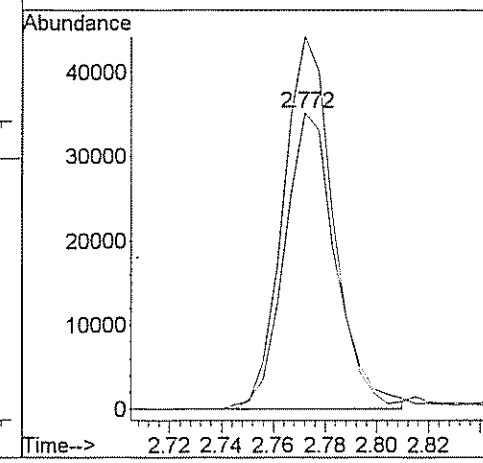


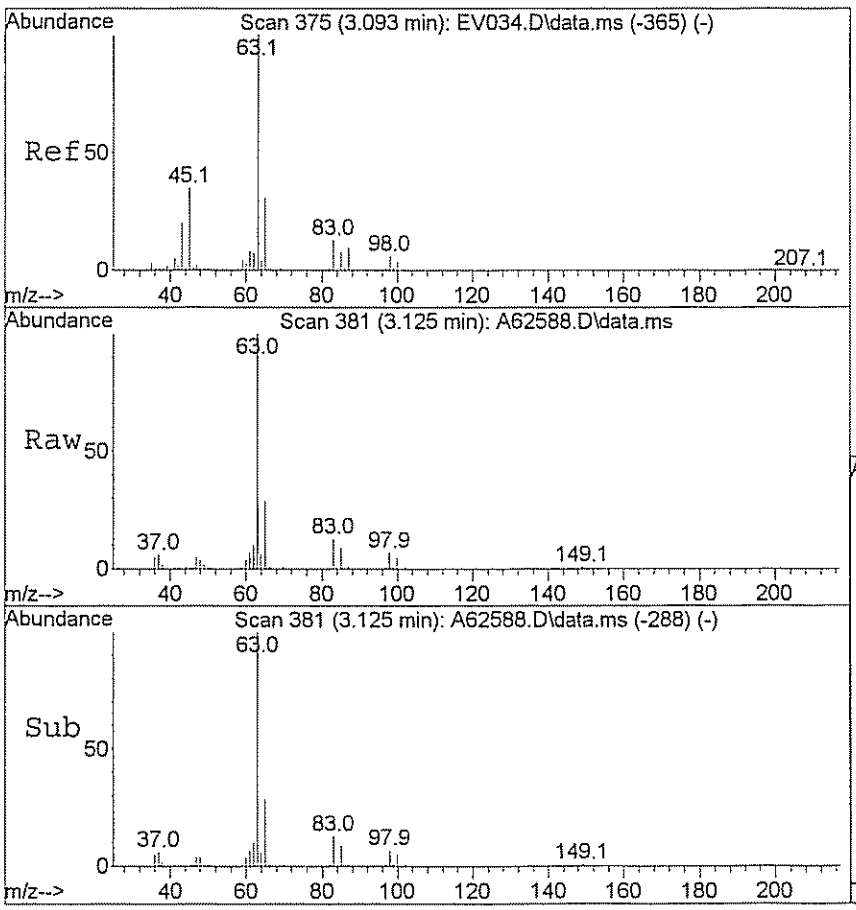


#16
Trans-1,2-dichloroethene
Concen: 45.76 ug/L
RT: 2.772 min Scan# 315
Delta R.T. -0.000 min
Lab File: A62588.D
Acq: 26 Mar 2009 5:30 pm

Tgt Ion: 96 Resp: 47884

Ion	Ratio	Lower	Upper
96	100		
61	127.9	124.0	186.0

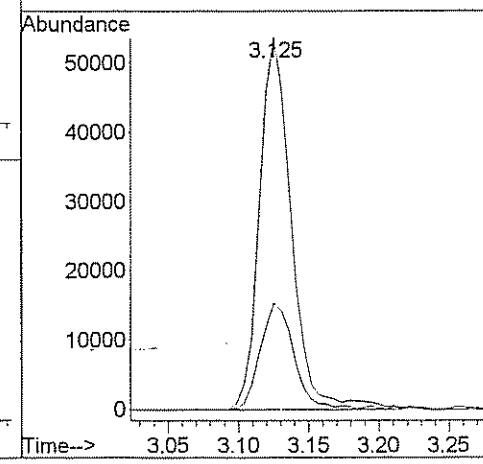


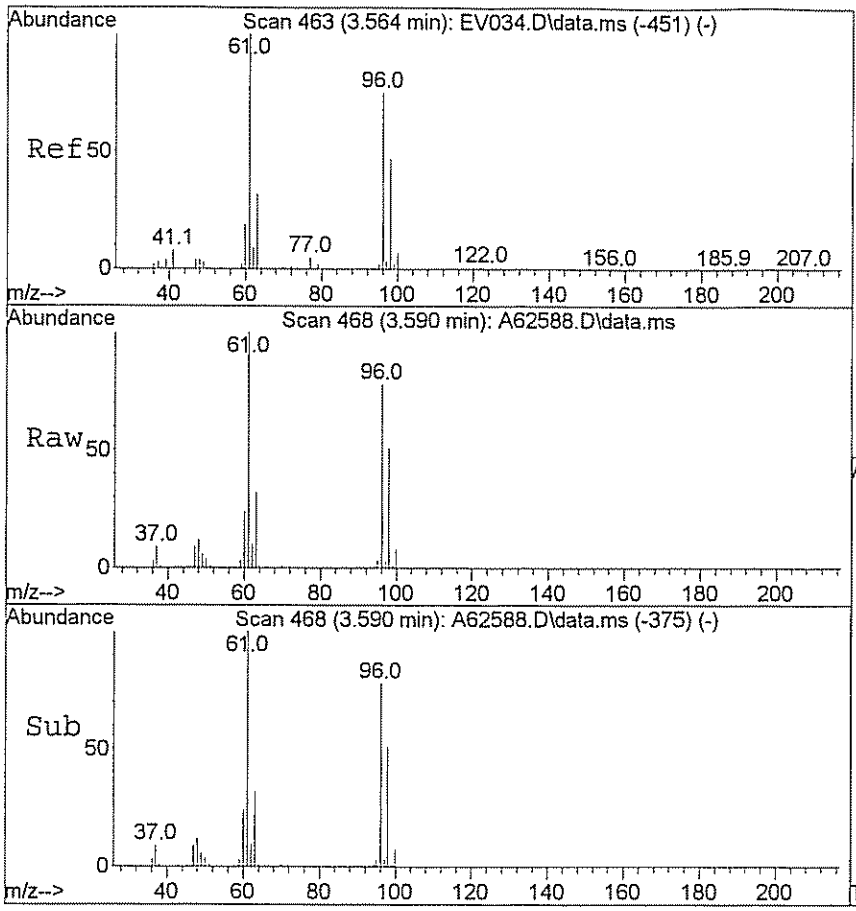


#18
1,1-Dichloroethane
Concen: 45.53 ug/L
RT: 3.125 min Scan# 381
Delta R.T. 0.000 min
Lab File: A62588.D
Acq: 26 Mar 2009 5:30 pm

Tgt Ion: 63 Resp: 84828

Ion	Ratio	Lower	Upper
63	100		
65	29.9	25.0	37.4

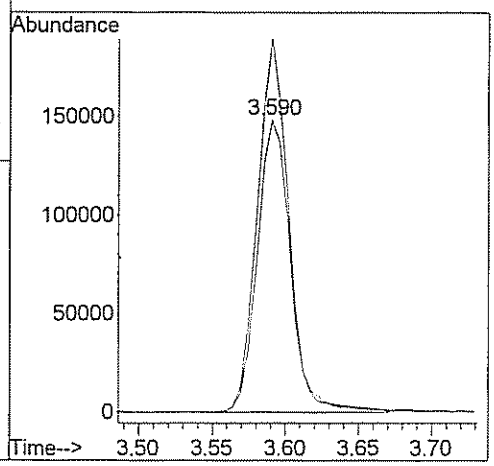


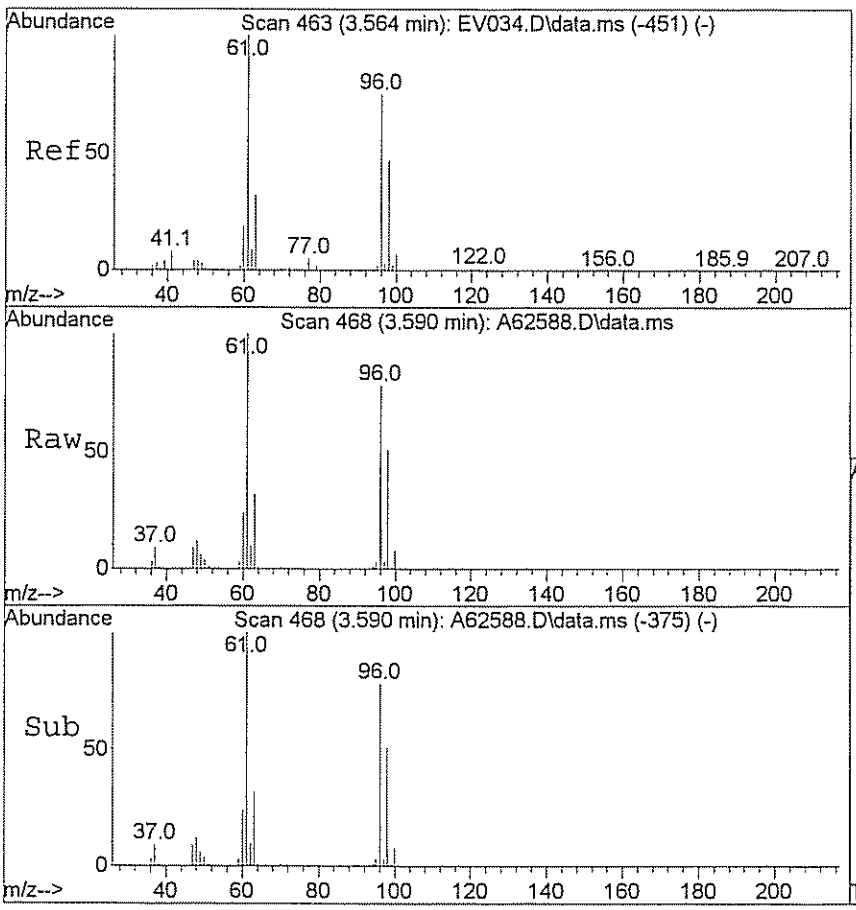


#28
Cis-1,2-dichloroethene
Concen: 188.00 ug/L
RT: 3.590 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62588.D
Acq: 26 Mar 2009 5:30 pm

Tgt Ion: 96 Resp: 233941

Ion	Ratio	Lower	Upper
96	100		
61	121.7	115.0	172.6

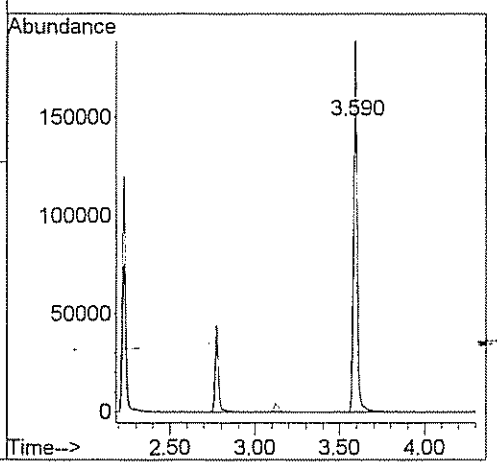


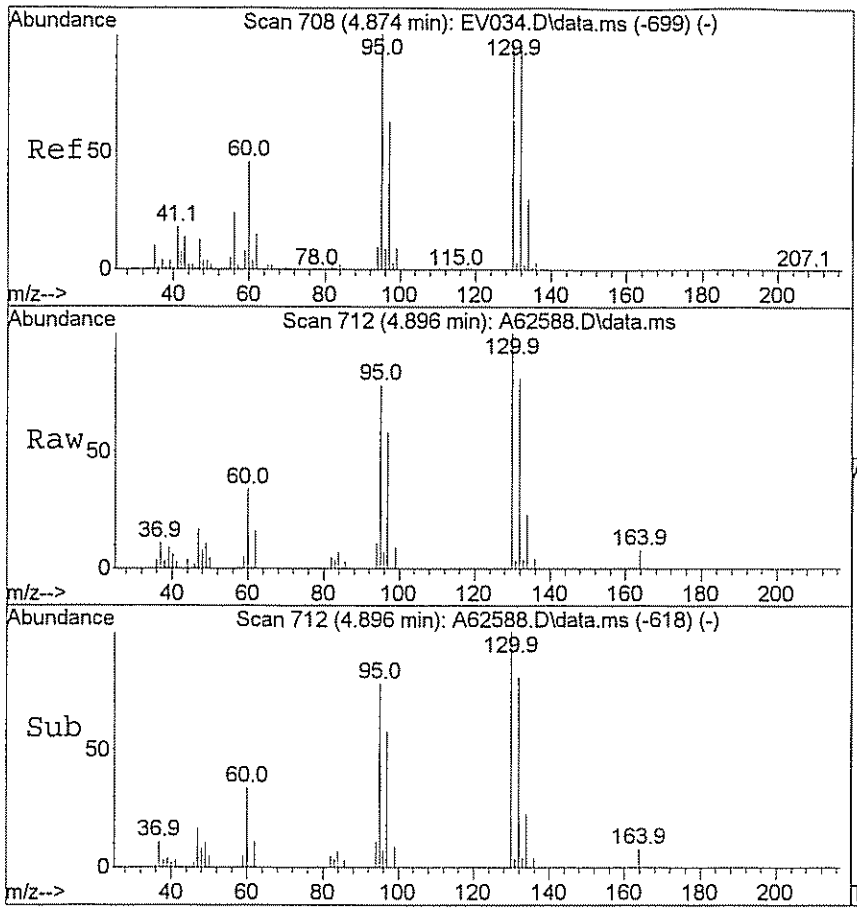


#29
1,2-dichloroethene(total)
Concen: 252.44 ug/L m
RT: 3.590 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62588.D
Acq: 26 Mar 2009 5:30 pm

Tgt Ion: 96 Resp: 286803

Ion	Ratio	Lower	Upper
96	100		
61	99.3	115.0	172.6#

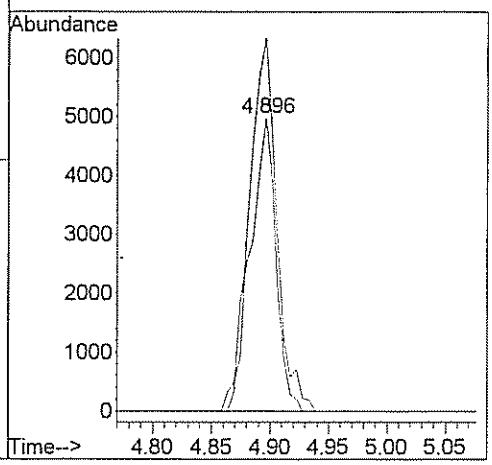




#46
Trichloroethene
Concen: 5.73 ug/L m
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62588.D
Acq: 26 Mar 2009 5:30 pm

Tgt Ion: 95 Resp: 7687

Ion	Ratio	Lower	Upper
95	100		
130	0.0	79.7	119.5#



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-004-1/3
Sample Volume :	5	Lab File ID :	A62590.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	11	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-004-1/3
Sample Volume :	5	Lab File ID :	A62590.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	0.88	J
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.3	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	19	
108-88-3	Toluene	2.1	
79-01-6	Trichloroethene	25000	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-004-1/3
Sample Volume :	5	Lab File ID :	A62590.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	28	
156-59-2	cis-1,2-Dichloroethene	6200	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.9	
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	0.73	J
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	4.7	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62590.D
Acq On : 26 Mar 2009 6:11 pm
Operator : SM
Sample : 903098-004
Misc : OUI-52GW46P-0309,CH2M HILL,WATER
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 31 08:11:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

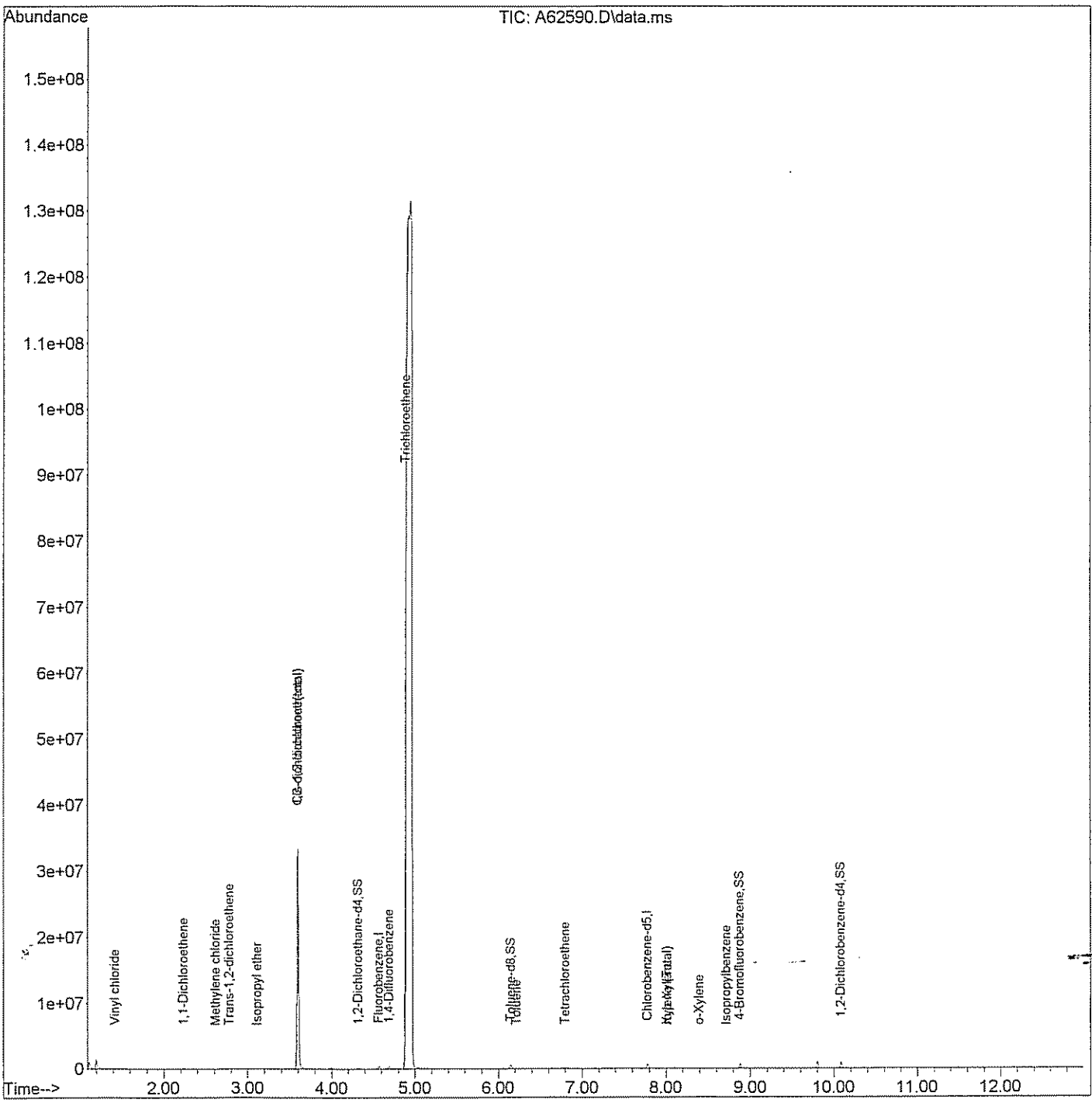
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.569	96	338553	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.693	114	311594	50.00	ug/L	# 0.01
58) Chlorobenzene-d5	7.779	117	314857	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	94699	50.63	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.26%			
53) Toluene-d8	6.153	98	342553	49.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 99.06%			
75) 4-Bromofluorobenzene	8.881	95	142988	45.76	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 91.52%			
91) 1,2-Dichlorobenzene-d4	10.085	152	188620	55.34	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 110.68%			
Target Compounds						Qvalue
4) Vinyl chloride	1.424	62	38294	28.50	ug/L	96
12) 1,1-Dichloroethene	2.237	96	13293	10.68	ug/L	92
15) Methylene chloride	2.617	84	1231	3.32	ug/L	82
16) Trans-1,2-dichloroethene	2.783	96	6328	4.67	ug/L	81
17) Isopropyl ether	3.114	45	9865	1.81	ug/L	99
28) Cis-1,2-dichloroethene	3.596	96	9926674	6164.44	ug/L #	70
29) 1,2-dichloroethene(total)	3.596	96	9926674	6751.50	ug/L #	70
46) Trichloroethene	4.896	95	42702363m	24796.03	ug/L	
54) Toluene	6.217	92	7611	2.07	ug/L	96
61) Tetrachloroethene	6.800	166	31290	18.81	ug/L	95
69) m,p-Xylene	8.020	106	7061	1.94	ug/L	83
70) o-Xylene	8.400	106	2639	0.73	ug/L	95
71) Xylene (Total)	8.020	106	9916m	2.75	ug/L	
74) Isopropylbenzene	8.716	105	7060	0.88	ug/L #	85

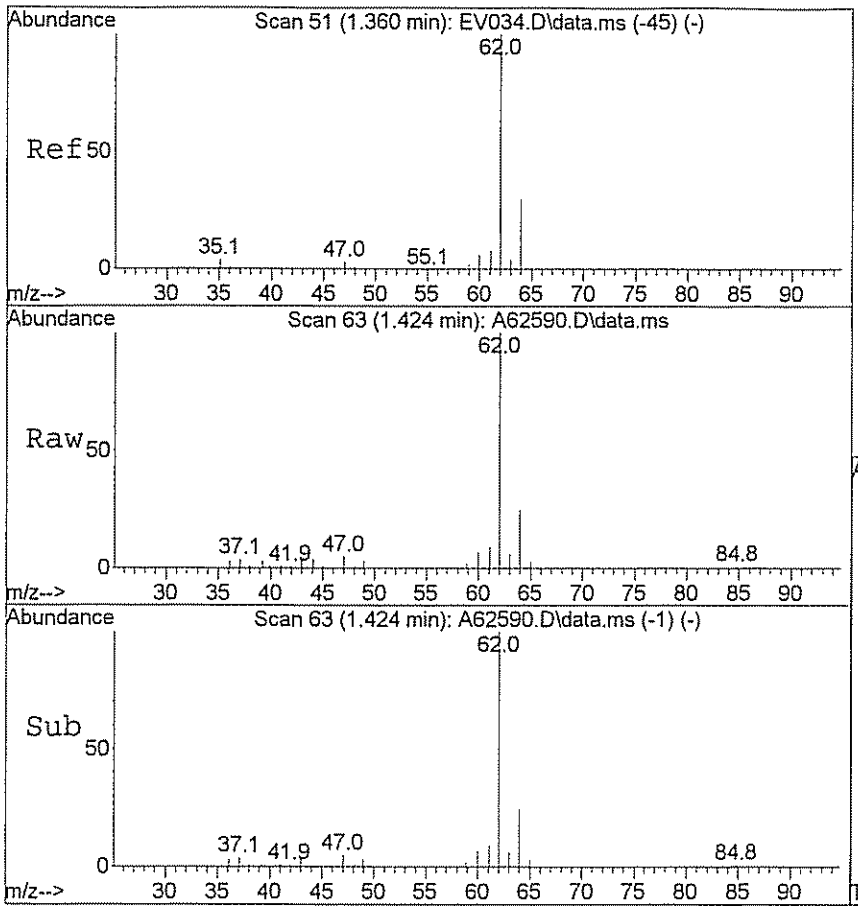
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62590.D
Acq On : 26 Mar 2009 6:11 pm
Operator : SM
Sample : 903098-004
Misc : OUI-52GW46P-0309,CH2M HILL,WATER
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 31 08:11:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

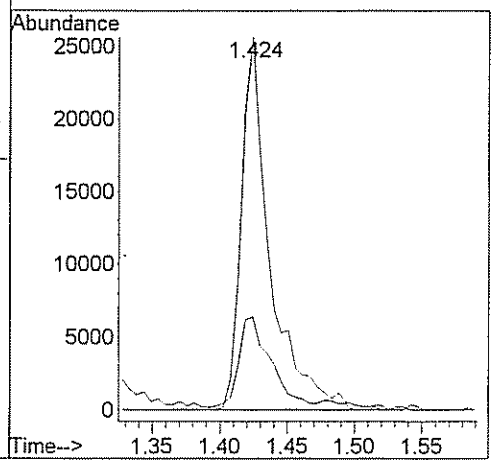


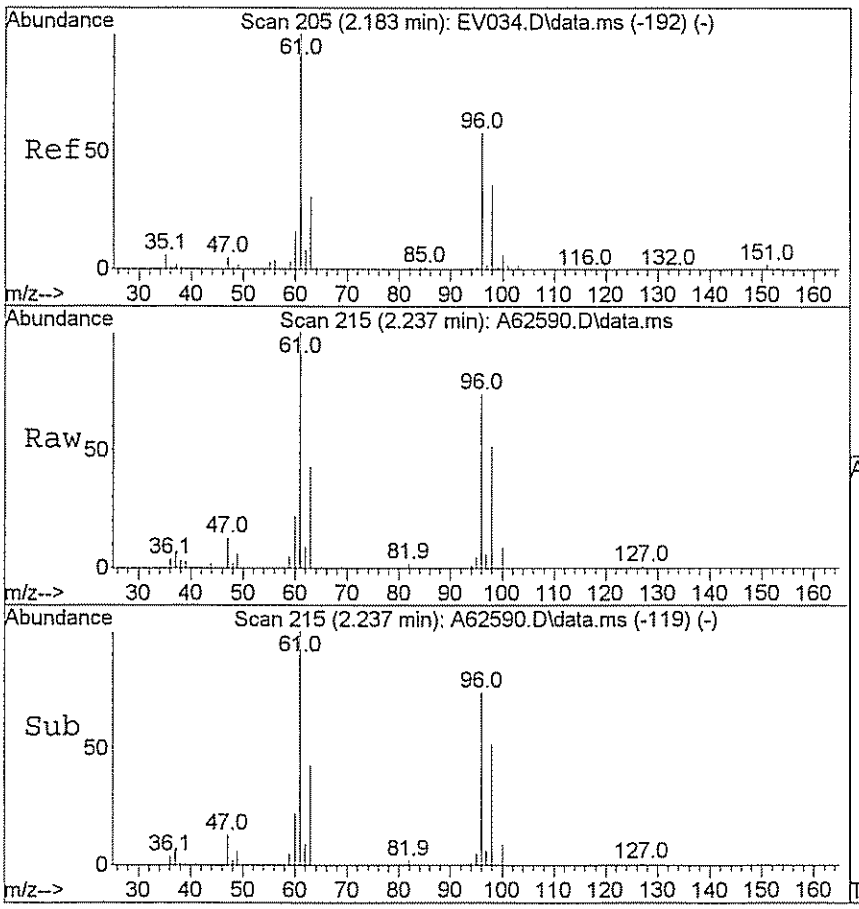


#4
Vinyl chloride
Concen: 28.50 ug/L
RT: 1.424 min Scan# 63
Delta R.T. 0.011 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion: 62 Resp: 38294

Ion	Ratio	Lower	Upper
62	100		
64	28.4	24.5	36.7

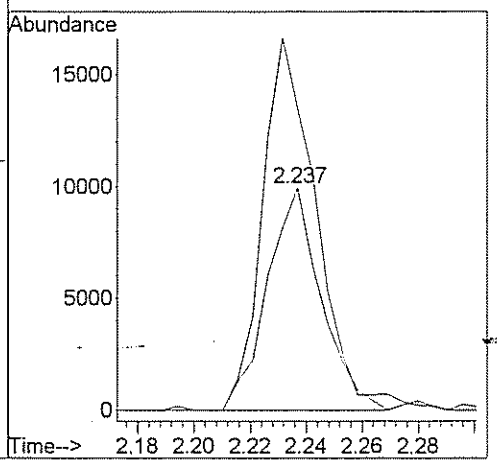


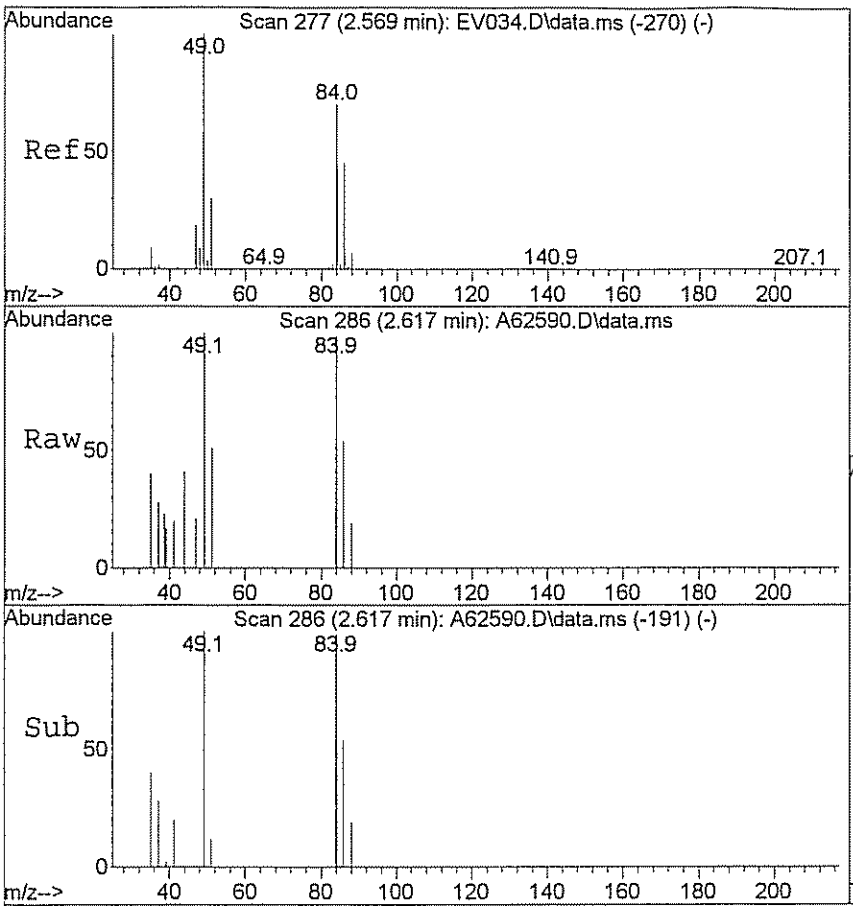


#12
1,1-Dichloroethene
Concen: 10.68 ug/L
RT: 2.237 min Scan# 215
Delta R.T. 0.011 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion: 96 Resp: 13293

Ion	Ratio	Lower	Upper
96	100		
61	166.7	142.8	214.2

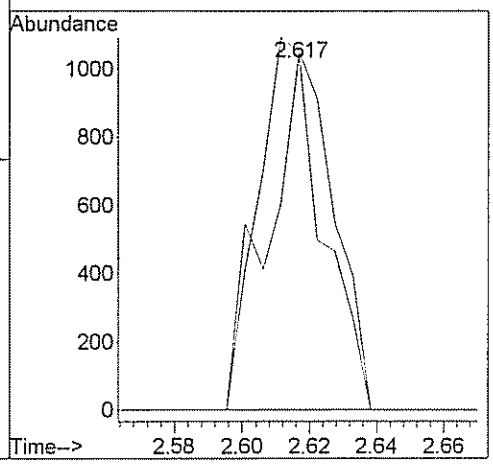


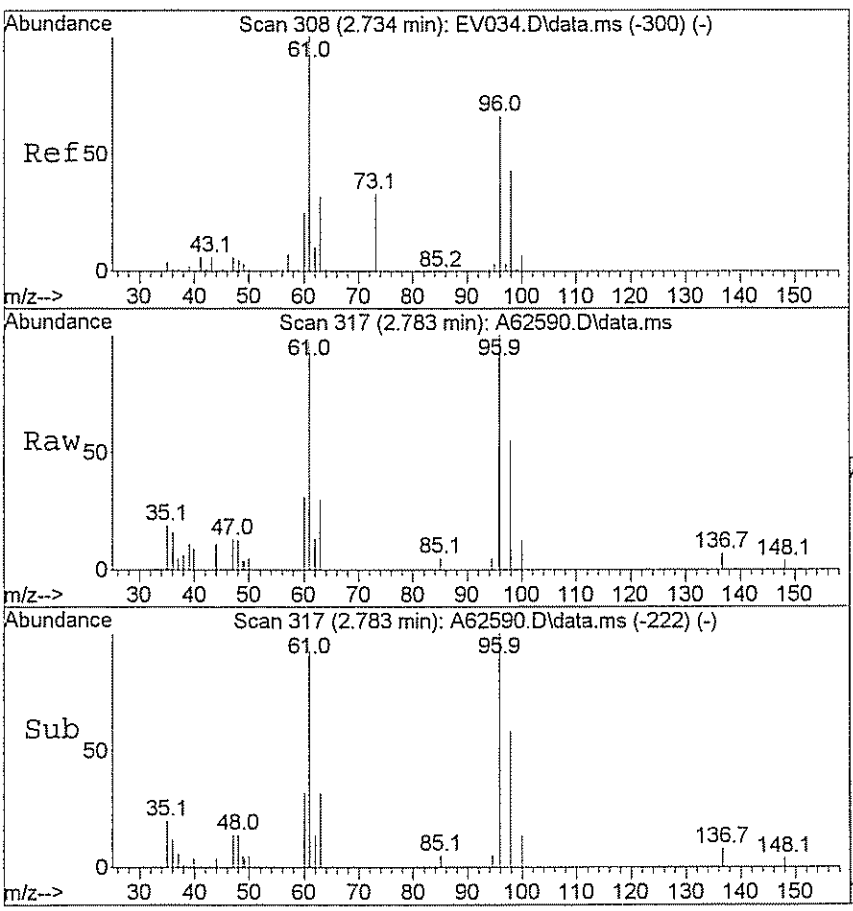


#15
Methylene chloride
Concen: 3.32 ug/L
RT: 2.617 min Scan# 286
Delta R.T. 0.011 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion: 84 Resp: 1231

Ion	Ratio	Lower	Upper
84	100		
49	133.3	125.9	188.9

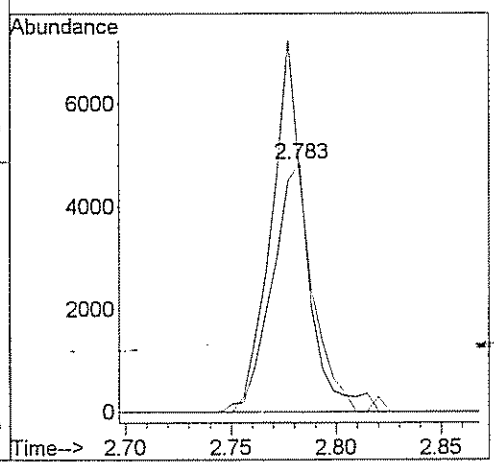


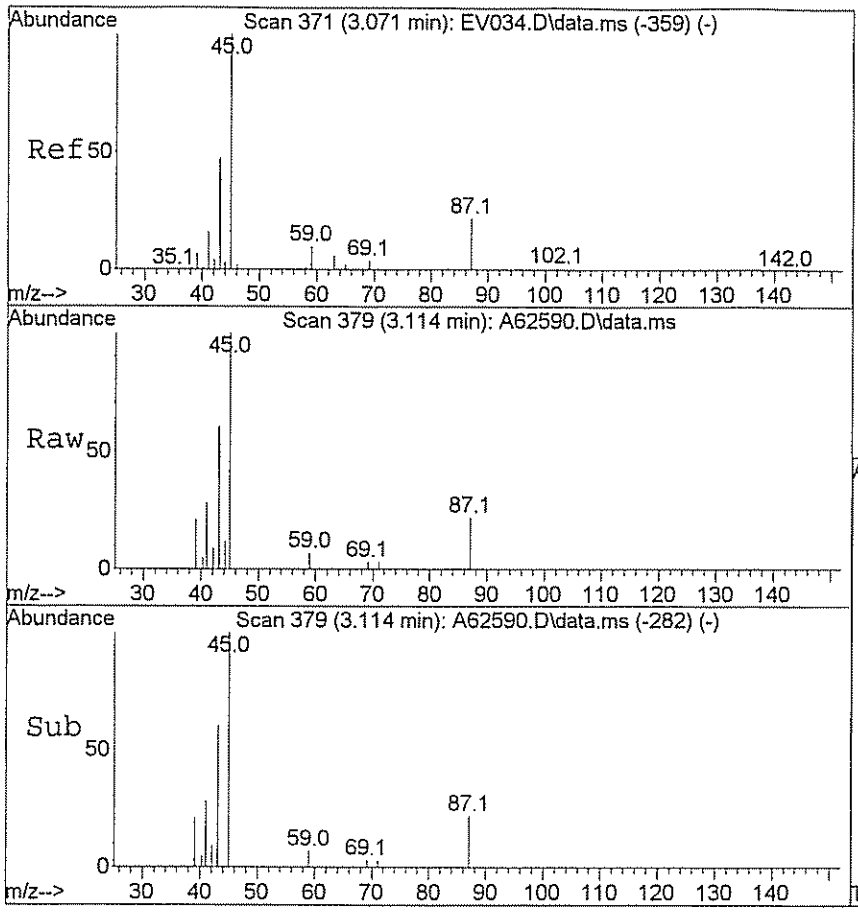


#16
Trans-1,2-dichloroethene
Concen: 4.67 ug/L
RT: 2.783 min Scan# 317
Delta R.T. 0.011 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion: 96 Resp: 6328

Ion	Ratio	Lower	Upper
96	100		
61	130.2	124.0	186.0

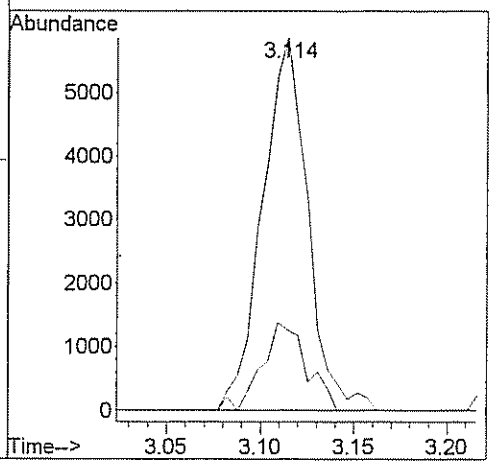


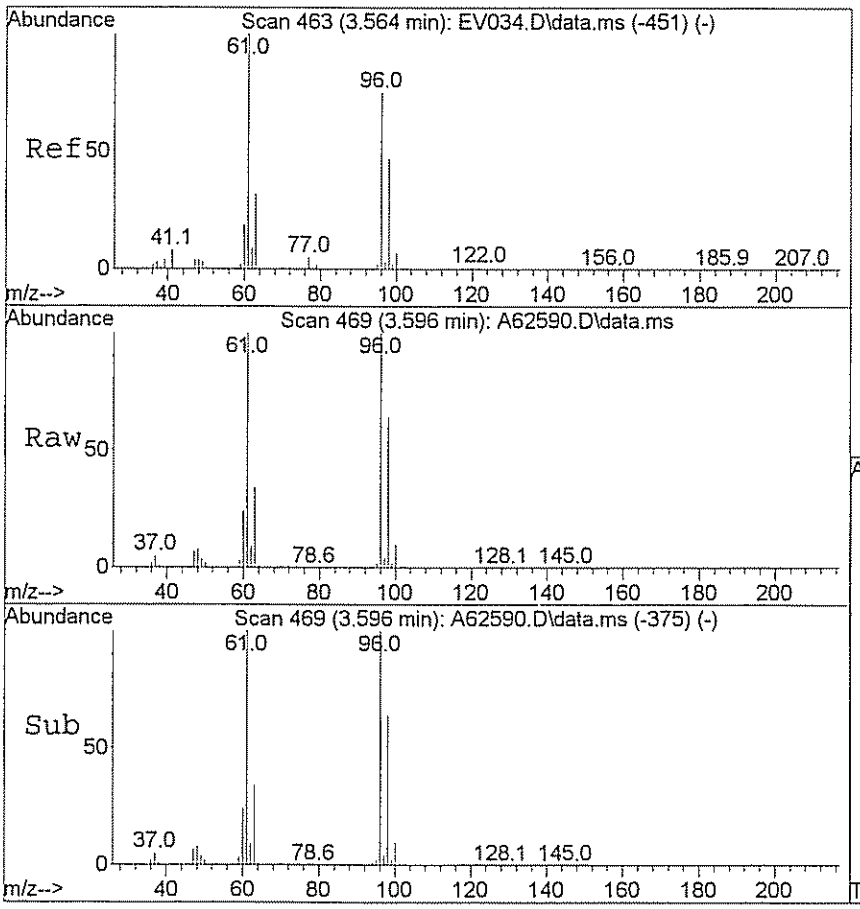


#17
Isopropyl ether
Concen: 1.81 ug/L
RT: 3.114 min Scan# 379
Delta R.T. 0.016 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion: 45 Resp: 9865

Ion	Ratio	Lower	Upper
45	100		
87	23.3	18.4	27.6

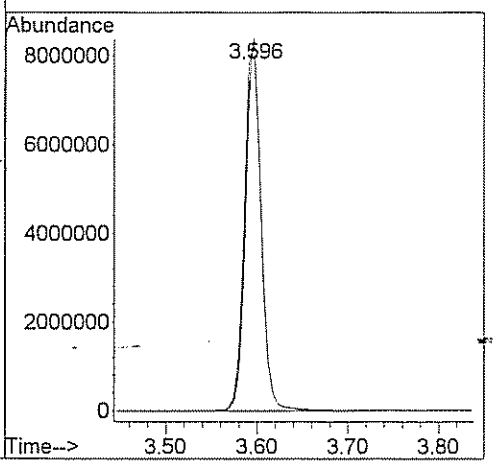


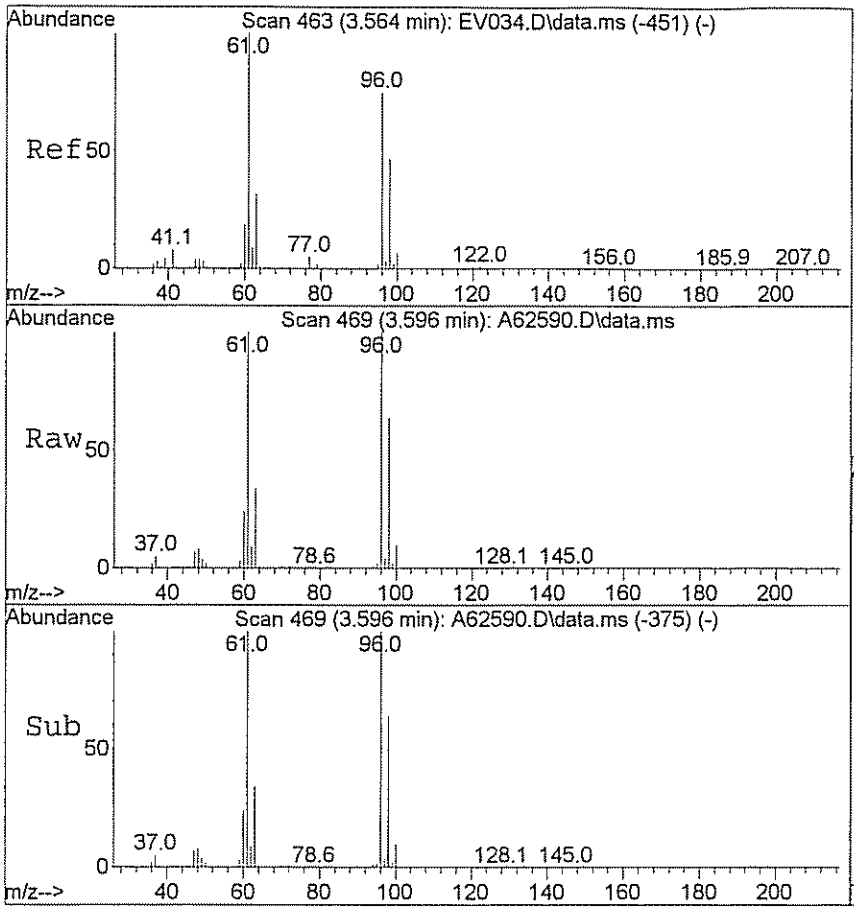


#28
Cis-1,2-dichloroethene
Concen: 6164.44 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion: 96 Resp: 9926674

Ion	Ratio	Lower	Upper
96	100		
61	106.6	115.0	172.6#

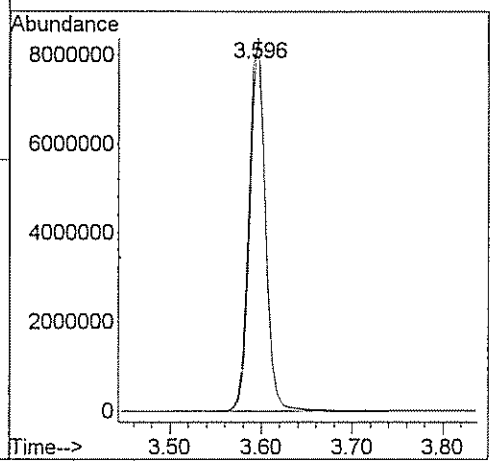


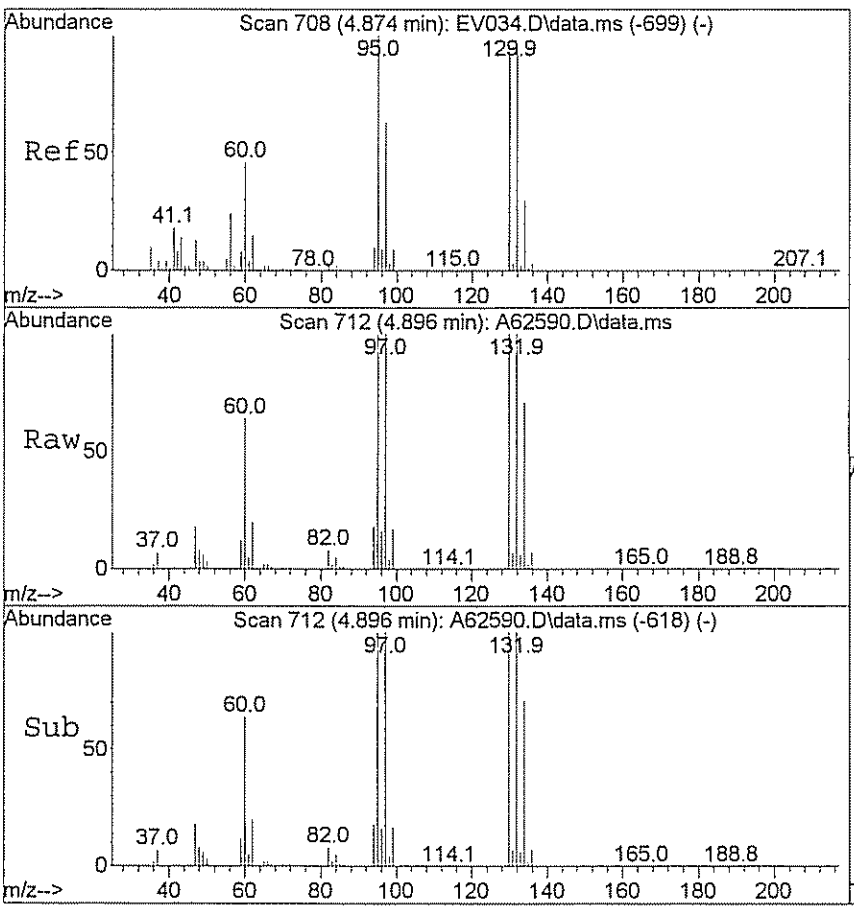


#29
1,2-dichloroethene(total)
Concen: 6751.50 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion: 96 Resp: 9926674

Ion	Ratio	Lower	Upper
96	100		
61	106.6	115.0	172.6#

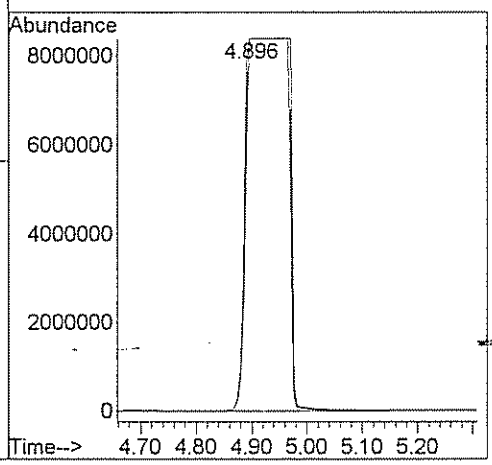


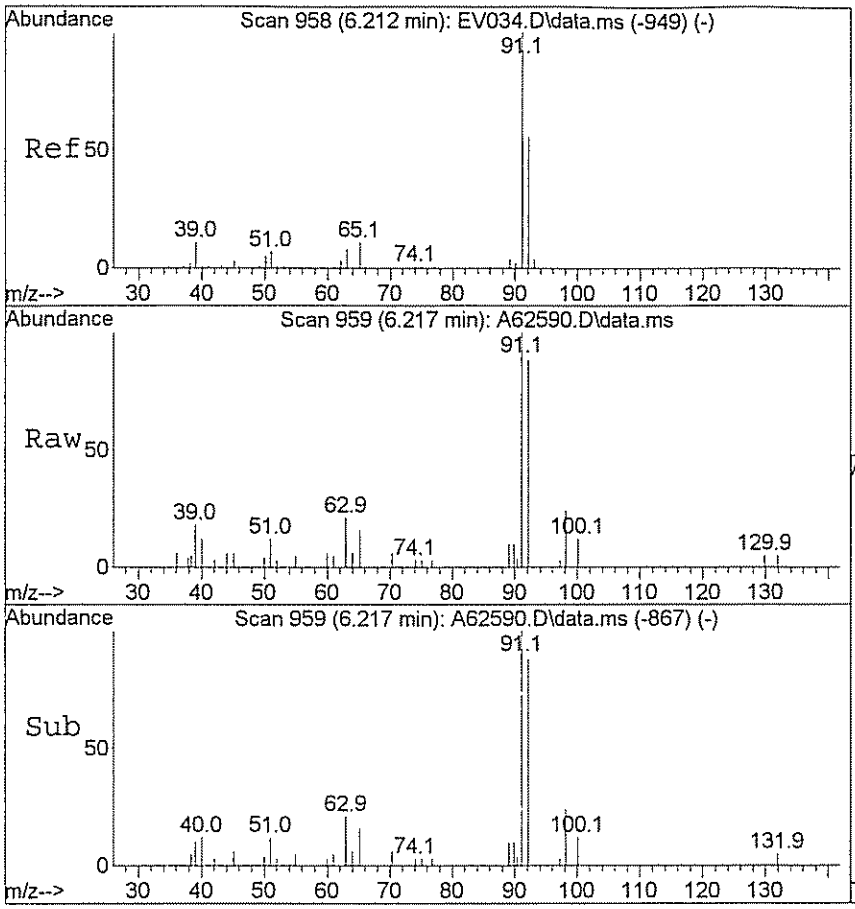


#46
Trichloroethene
Concen: 24796.03 ug/L m
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion: 95 Resp:42702363

Ion	Ratio	Lower	Upper
95	100		
130	0.0	79.7	119.5#

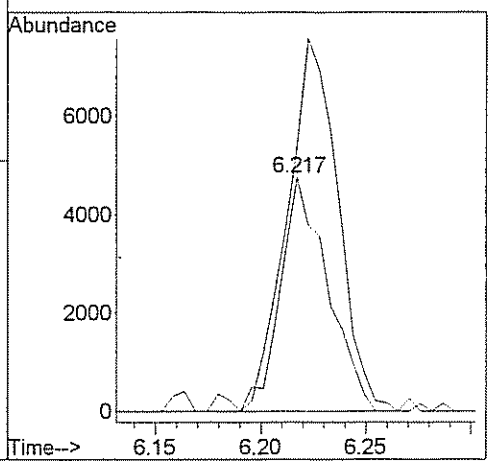


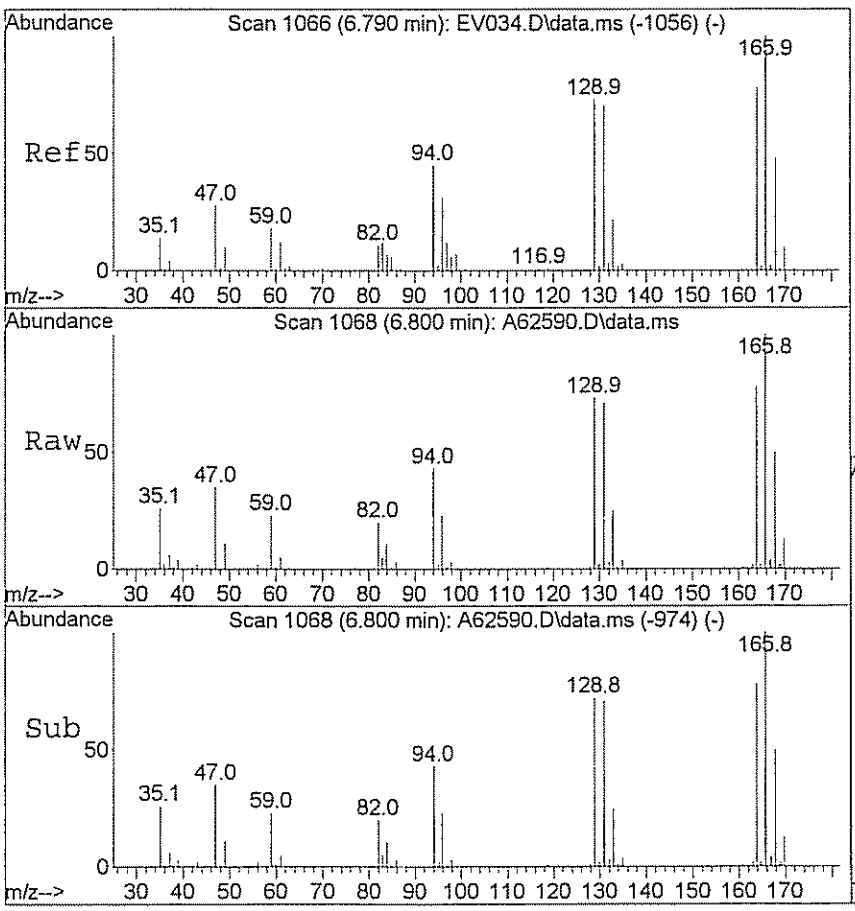


#54
Toluene
Concen: 2.07 ug/L
RT: 6.217 min Scan# 959
Delta R.T. -0.005 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion: 92 Resp: 7611

Ion	Ratio	Lower	Upper
92	100		
91	166.7	137.8	206.8

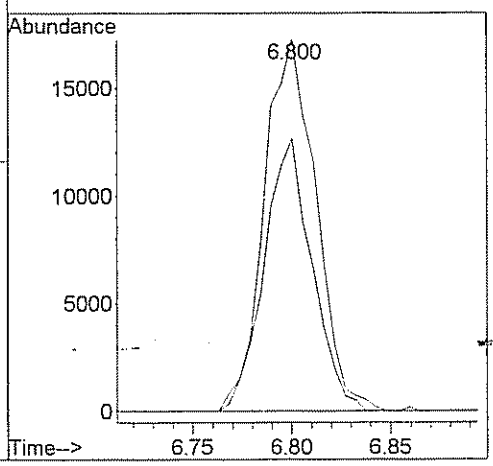


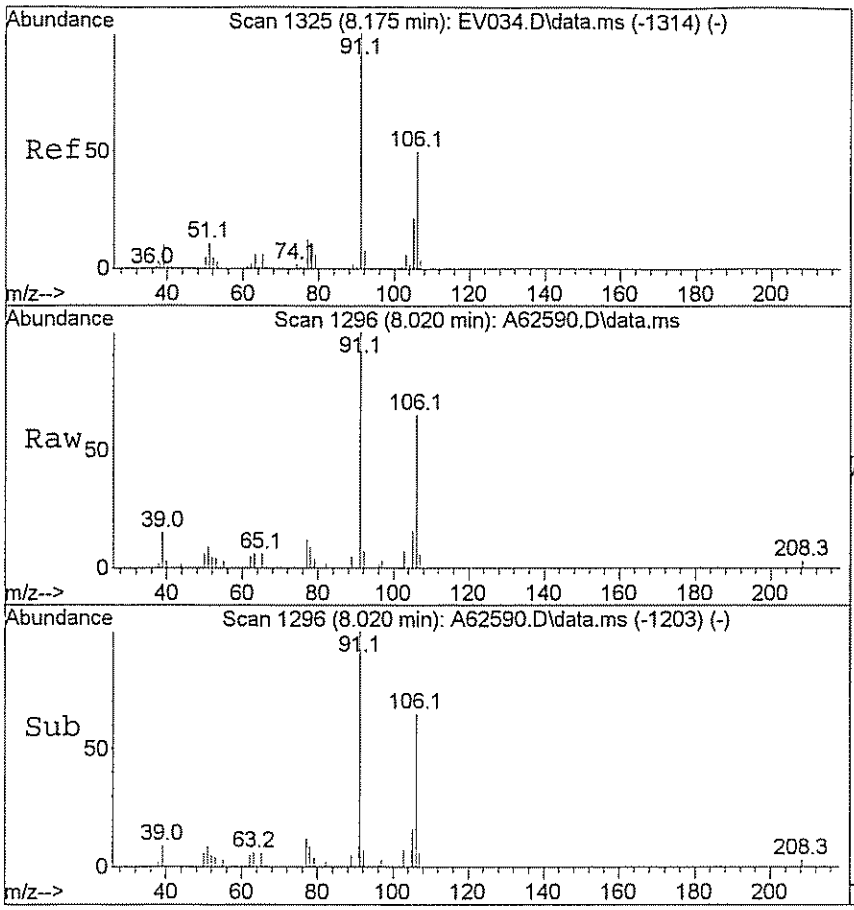


#61
Tetrachloroethene
Concen: 18.81 ug/L
RT: 6.800 min Scan# 1068
Delta R.T. 0.005 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion:166 Resp: 31290

Ion	Ratio	Lower	Upper
166	100		
129	68.7	58.6	88.0

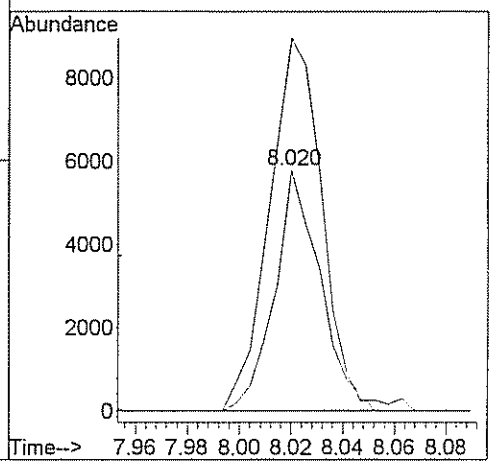


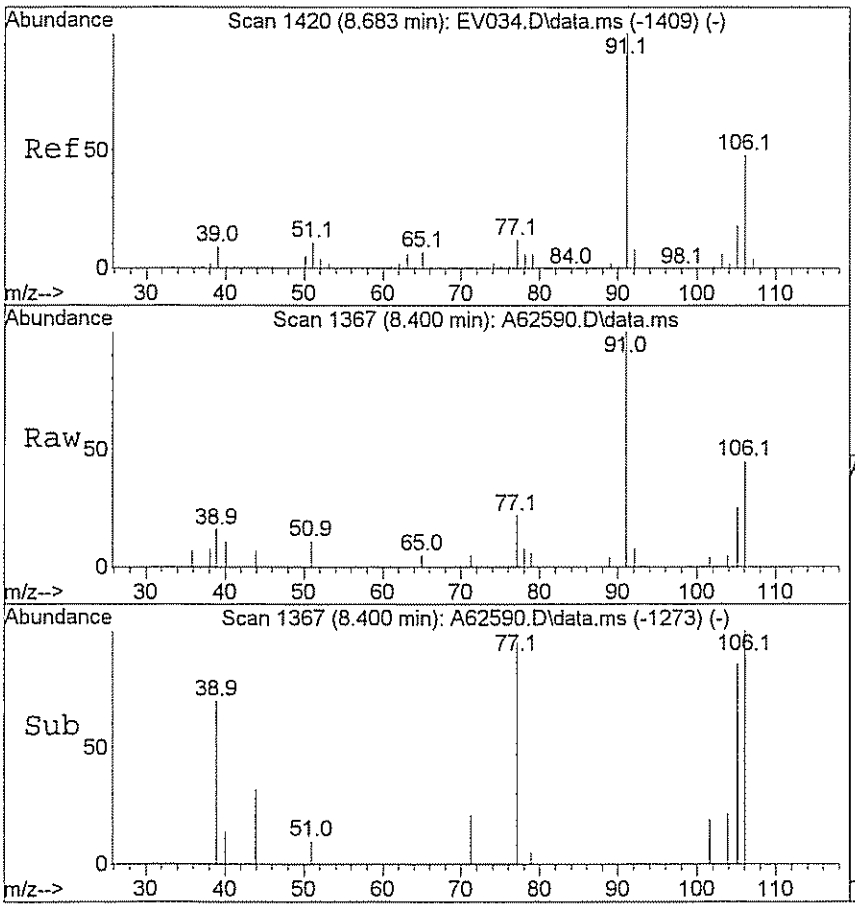


#69
m,p-Xylene
Concen: 1.94 ug/L
RT: 8.020 min Scan# 1296
Delta R.T. -0.000 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion:106 Resp: 7061

Ion	Ratio	Lower	Upper
106	100		
91	181.4	166.7	250.1

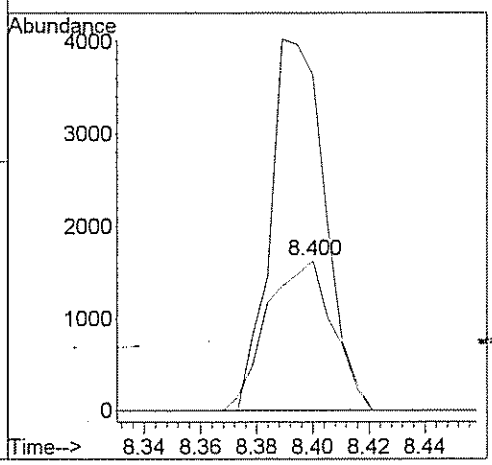


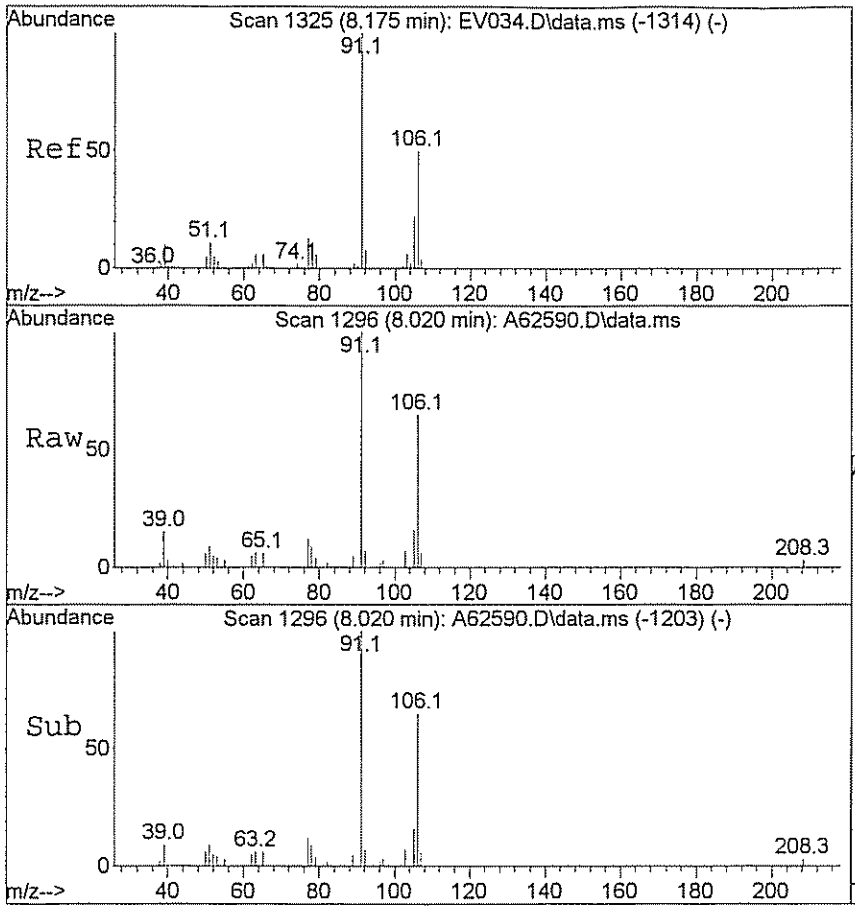


#70
o-Xylene
Concen: 0.73 ug/L
RT: 8.400 min Scan# 1367
Delta R.T. 0.005 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion:106 Resp: 2639

Ion	Ratio	Lower	Upper
106	100		
91	206.3	170.9	256.3

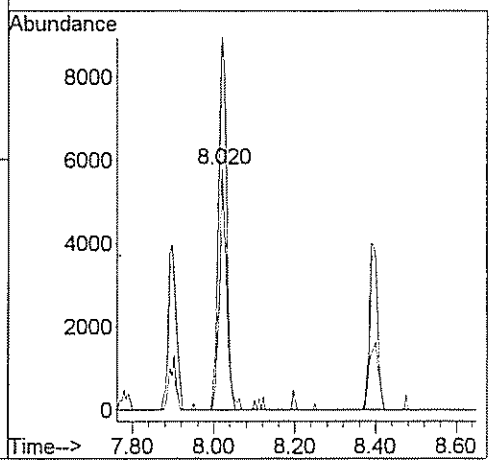


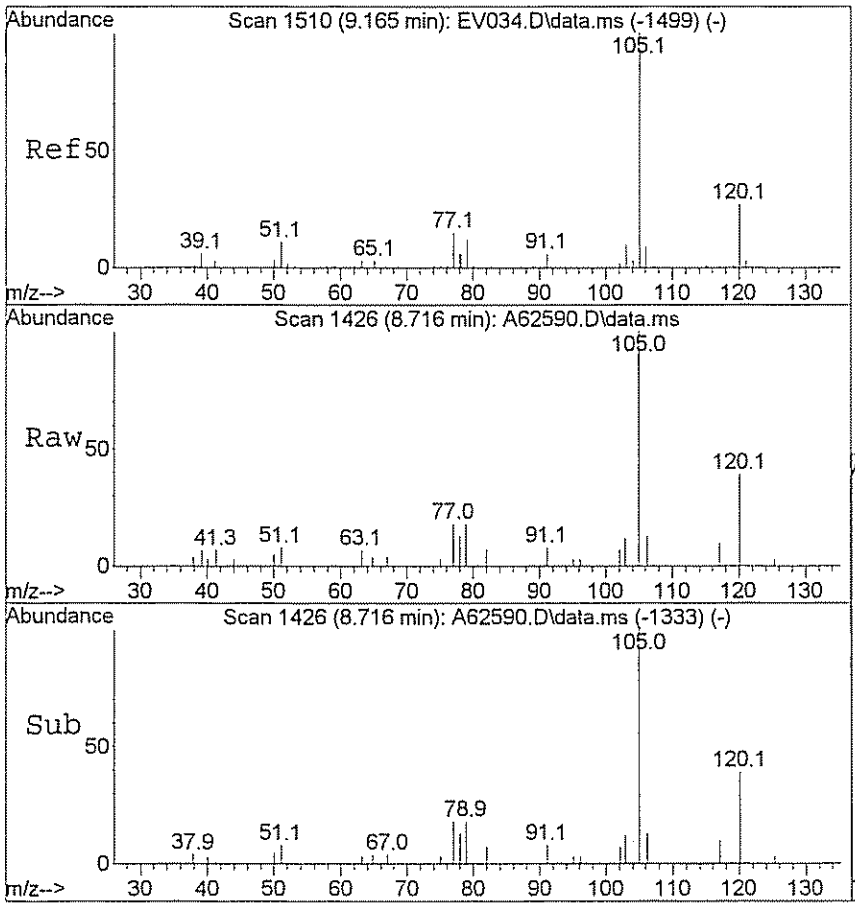


#71
Xylene (Total)
Concen: 2.75 ug/L m
RT: 8.020 min Scan# 1296
Delta R.T. -0.000 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion:106 Resp: 9916

Ion	Ratio	Lower	Upper
106	100		
91	129.1	166.7	250.1#

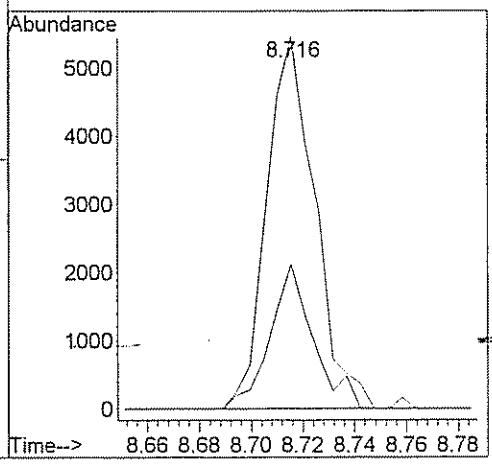




#74
Isopropylbenzene
Concen: 0.88 ug/L
RT: 8.716 min Scan# 1426
Delta R.T. -0.000 min
Lab File: A62590.D
Acq: 26 Mar 2009 6:11 pm

Tgt Ion:105 Resp: 7060

Ion	Ratio	Lower	Upper
105	100		
120	34.8	21.8	32.6#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-005-2/3
Sample Volume :	.01	Lab File ID :	A62642.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
75-34-3	1,1-Dichloroethane	500	U
75-35-4	1,1-Dichloroethene	500	U
563-58-6	1,1-Dichloropropene	500	U
87-61-6	1,2,3-Trichlorobenzene	500	U
96-18-4	1,2,3-Trichloropropane	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
95-63-6	1,2,4-Trimethylbenzene	500	U
96-12-8	1,2-Dibromo-3-Chloropropane	1000	U
95-50-1	1,2-Dichlorobenzene	500	U
107-06-2	1,2-Dichloroethane	500	U
78-87-5	1,2-Dichloropropane	500	U
108-67-8	1,3,5-trimethylbenzene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
142-28-9	1,3-Dichloropropane	500	U
106-46-7	1,4-Dichlorobenzene	500	U
594-20-7	2,2-Dichloropropane	500	U
78-93-3	2-Butanone	2500	U
95-49-8	2-Chlorotoluene	500	U
591-78-6	2-Hexanone	2500	U
106-43-4	4-Chlorotoluene	500	U
99-87-6	4-Isopropyltoluene	500	U
108-10-1	4-Methyl-2-Pentanone	2500	U
67-64-1	Acetone	2500	U
71-43-2	Benzene	500	U
108-86-1	Bromobenzene	500	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-005-2/3
Sample Volume :	.01	Lab File ID :	A62642.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	500	U
75-27-4	Bromodichloromethane	500	U
75-25-2	Bromoform	500	U
74-83-9	Bromomethane	500	U
75-15-0	Carbon Disulfide	500	U
56-23-5	Carbon Tetrachloride	500	U
108-90-7	Chlorobenzene	500	U
75-00-3	Chloroethane	500	U
67-66-3	Chloroform	500	U
74-87-3	Chloromethane	500	U
110-82-7	Cyclohexane	500	U
124-48-1	Dibromochloromethane	500	U
74-95-3	Dibromomethane	500	U
75-71-8	Dichlorodifluoromethane	500	U
100-41-4	Ethylbenzene	500	U
106-93-4	Ethylene DiBromide	500	U
76-13-1	Freon 113	500	U
87-68-3	Hexachlorobutadiene	500	U
98-82-8	Isopropylbenzene	500	U
79-20-9	Methyl Acetate	500	U
108-87-2	Methylcyclohexane	500	U
75-09-2	Methylene Chloride	500	U
91-20-3	Naphthalene	500	U
135-98-8	Sec-Butylbenzene	500	U
100-42-5	Styrene	500	U
127-18-4	Tetrachloroethylene	500	U
108-88-3	Toluene	500	U
79-01-6	Trichloroethene	20000	
75-69-4	Trichlorofluoromethane	500	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-005-2/3
Sample Volume :	.01	Lab File ID :	A62642.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	500	U
75-01-4	Vinyl Chloride	500	U
156-59-2	cis-1,2-Dichloroethene	2100	
10061-01-5	cis-1,3-Dichloropropene	500	U
136777-61-2	m,p-Xylene	500	U
104-51-8	n-Butylbenzene	500	U
103-65-1	n-Propylbenzene	500	U
95-47-6	o-Xylene	500	U
98-06-6	tert-Butylbenzene	500	U
1634-04-4	tert-butyl methyl ether	500	U
156-60-5	trans-1,2-dichloroethene	500	U
10061-02-6	trans-1,3-dichloropropene	500	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62642.D
Acq On : 27 Mar 2009 1:31 pm
Operator : SM
Sample : 903098-004
Misc : OUI-52GW46P-0309,CH2M HILL,500X
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 31 10:50:31 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

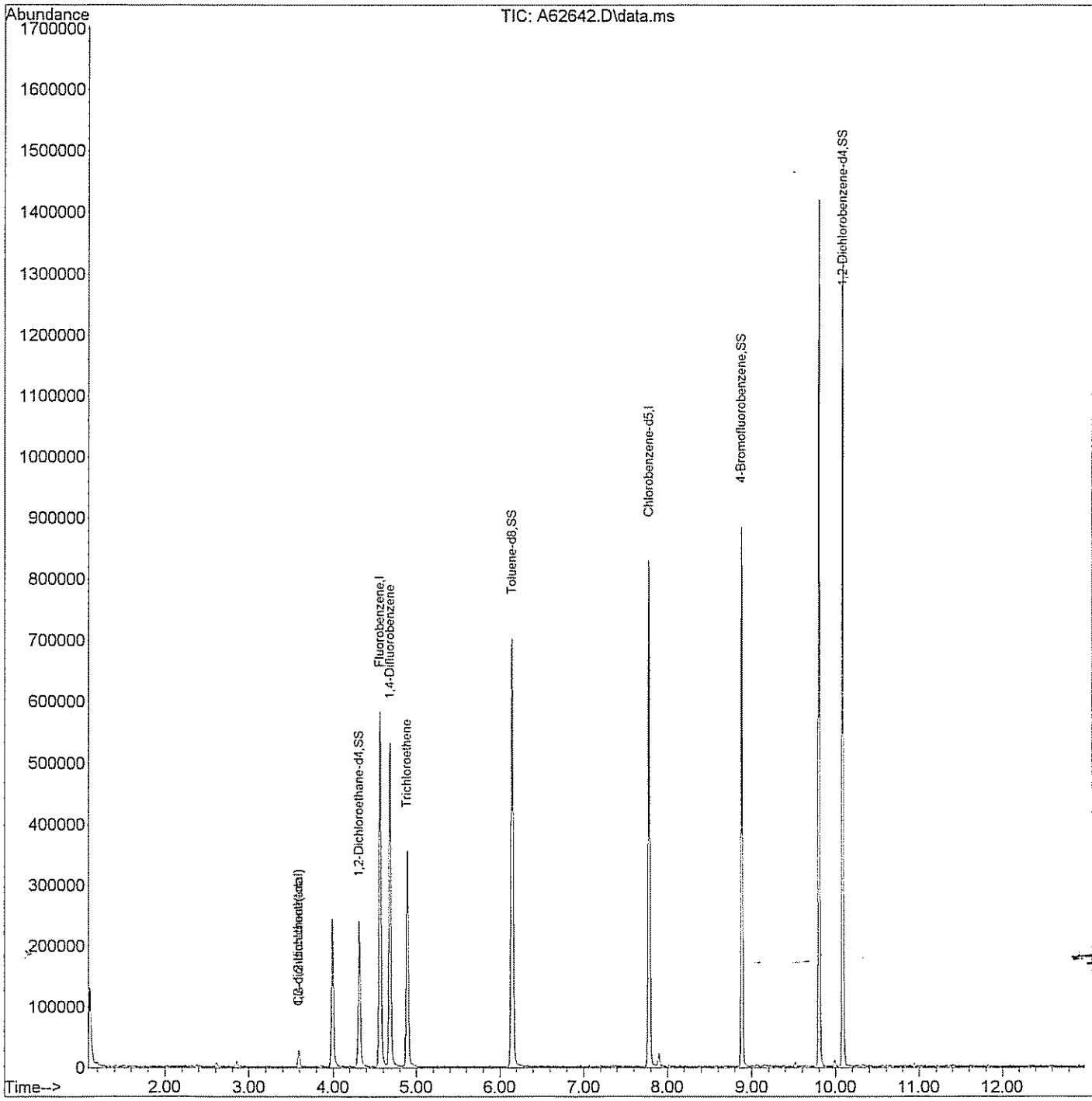
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	438274	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	400654	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	377152	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	121337	50.11	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.22%			
53) Toluene-d8	6.148	98	432076	48.59	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 97.18%			
75) 4-Bromofluorobenzene	8.881	95	180471	48.22	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.44%			
91) 1,2-Dichlorobenzene-d4	10.085	152	231531	56.71	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 113.42%			
Target Compounds						Qvalue
28) Cis-1,2-dichloroethene	3.591	96	8652	4.15	ug/L #	77
29) 1,2-dichloroethene(total)	3.591	96	8652	4.55	ug/L #	77
46) Trichloroethene	4.891	95	89552	40.44	ug/L	83

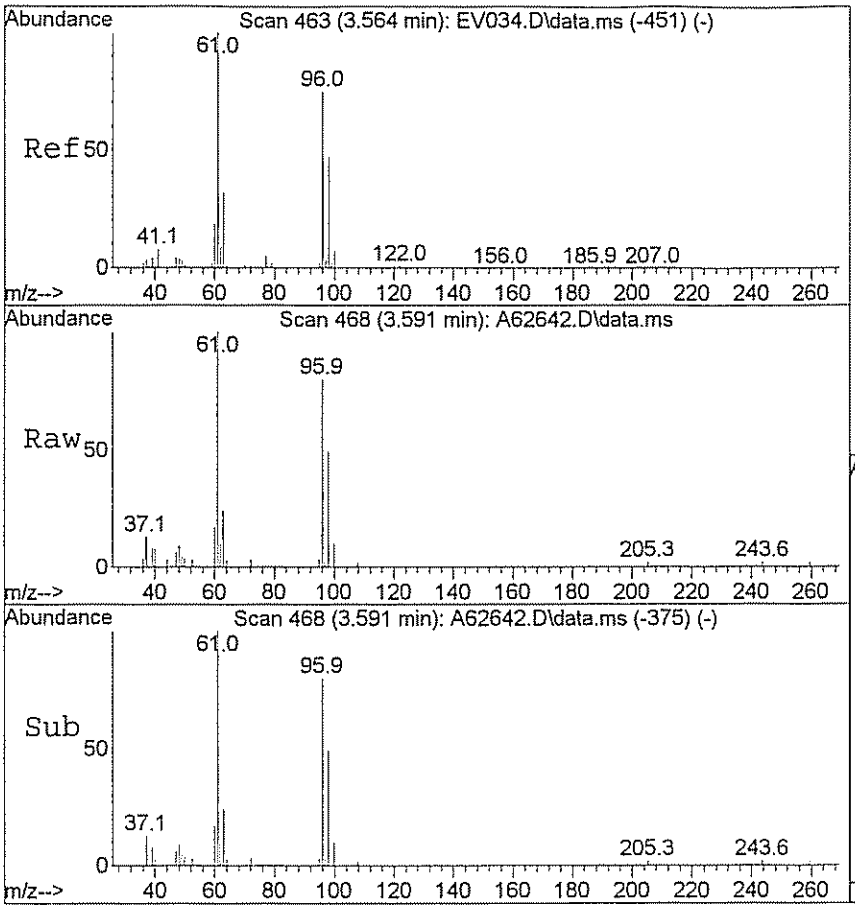
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62642.D
Acq On : 27 Mar 2009 1:31 pm
Operator : SM
Sample : 903098-004
Misc : OUI-52GW46P-0309,CH2M HILL,500X
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 31 10:50:31 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

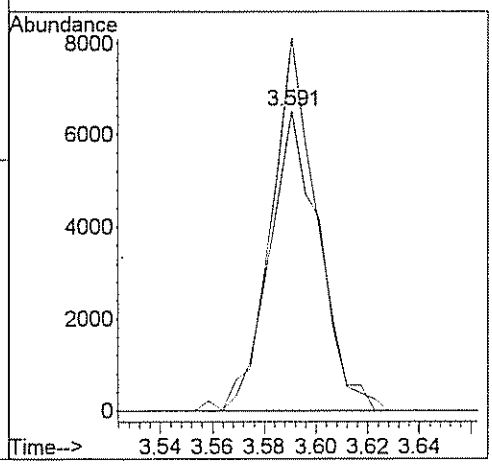


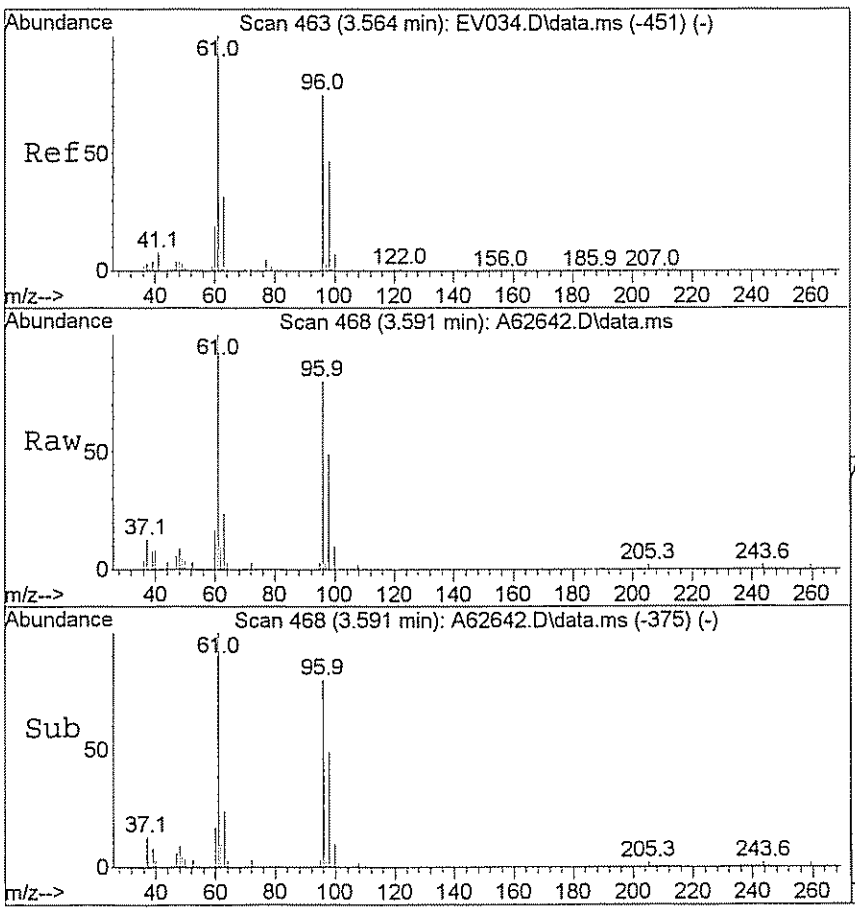


#28
Cis-1,2-dichloroethene
Concen: 4.15 ug/L
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62642.D
Acq: 27 Mar 2009 1:31 pm

Tgt Ion: 96 Resp: 8652

Ion	Ratio	Lower	Upper
96	100		
61	114.8	115.0	172.6#

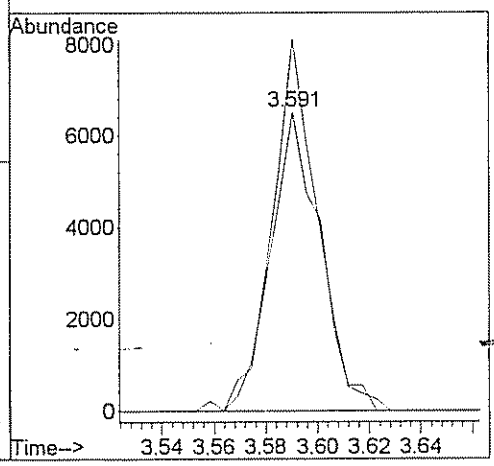


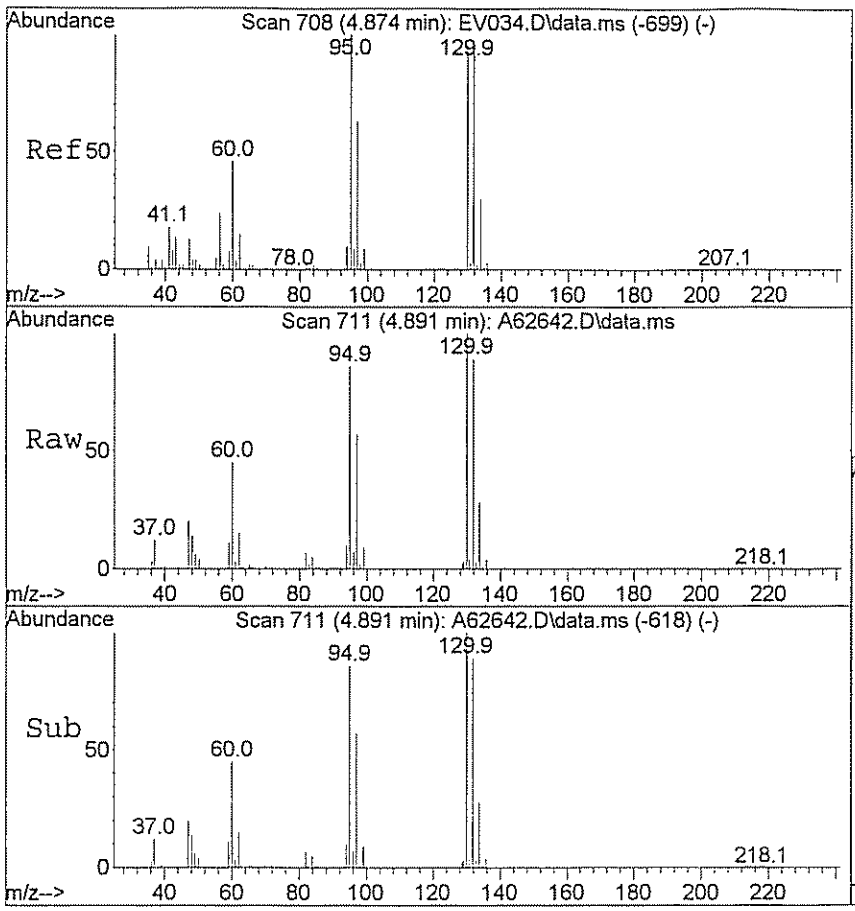


#29
1,2-dichloroethene(total)
Concen: 4.55 ug/L
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62642.D
Acq: 27 Mar 2009 1:31 pm

Tgt Ion: 96 Resp: 8652

Ion	Ratio	Lower	Upper
96	100		
61	114.8	115.0	172.6#

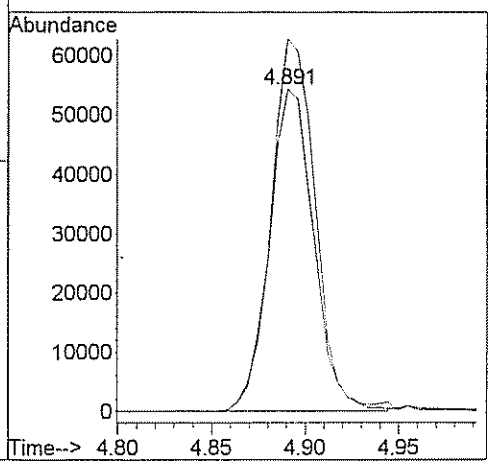




#46
Trichloroethene
Concen: 40.44 ug/L
RT: 4.891 min Scan# 711
Delta R.T. -0.000 min
Lab File: A62642.D
Acq: 27 Mar 2009 1:31 pm

Tgt Ion: 95 Resp: 89552

Ion	Ratio	Lower	Upper
95	100		
130	117.0	79.7	119.5



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-007-1/3
Sample Volume :	5	Lab File ID :	A62592.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-007-1/3
Sample Volume :	5	Lab File ID :	A62592.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.5	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	4.9	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-007-1/3
Sample Volume :	5	Lab File ID :	A62592.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	4.8	
156-59-2	cis-1,2-Dichloroethene	8.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62592.D
Acq On : 26 Mar 2009 6:52 pm
Operator : SM
Sample : 903098-005
Misc : OUI-16GW10-0309,CH2M HILL,WATER
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Mar 31 08:07:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

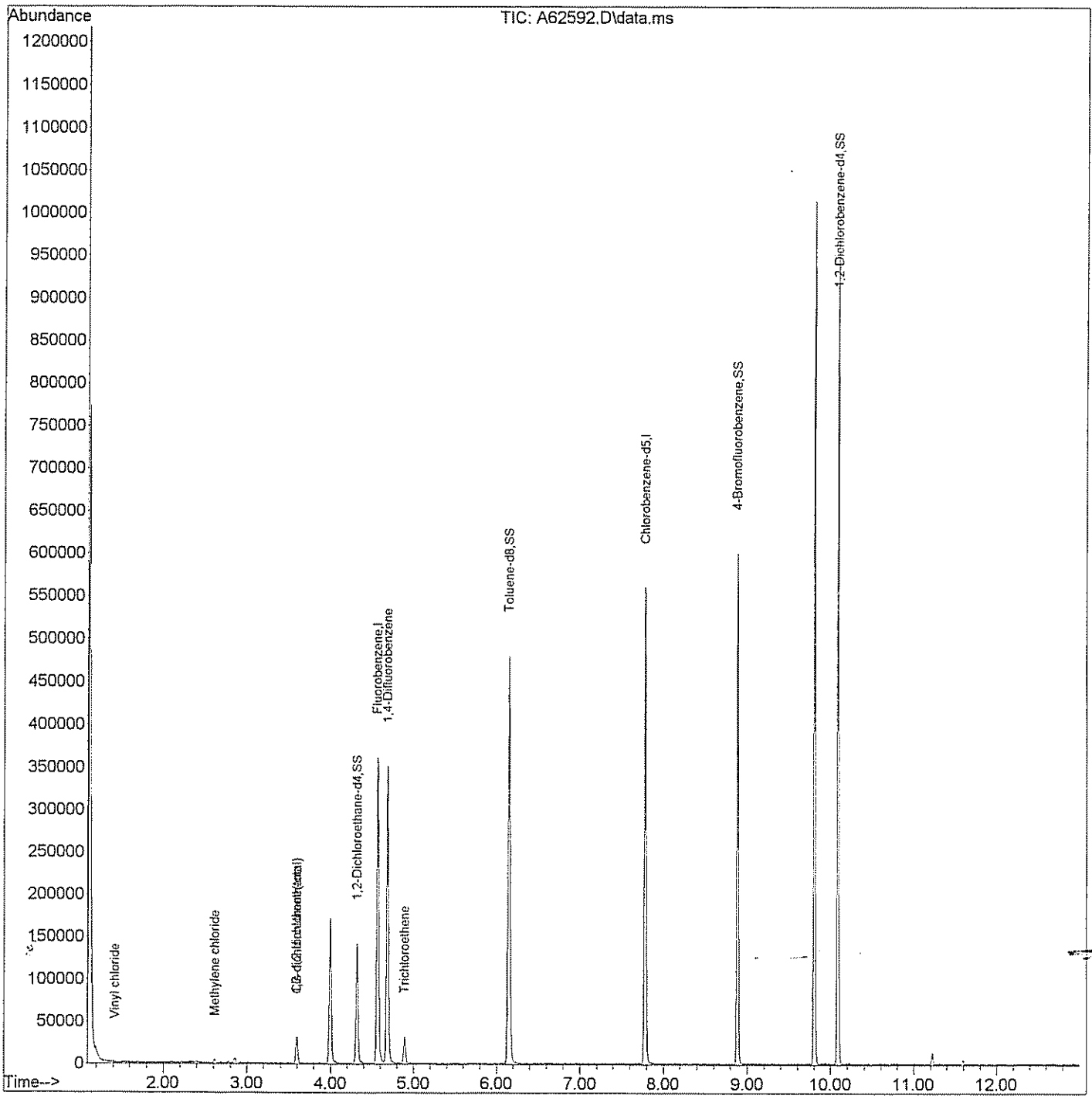
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.564	96	276931	50.00	ug/L	0.00
40) 1,4-Difluorobenzene		4.687	114	254979	50.00	ug/L	# 0.00
58) Chlorobenzene-d5		7.779	117	271183	50.00	ug/L	0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4		4.318	65	74017	48.38	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery =	96.76%		
53) Toluene-d8		6.148	98	288301	50.94	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery =	101.88%		
75) 4-Bromofluorobenzene		8.881	95	121696	45.22	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery =	90.44%		
91) 1,2-Dichlorobenzene-d4		10.085	152	172067	58.61	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery =	117.22%		
Target Compounds							Qvalue
4) Vinyl chloride		1.424	62	163	4.82	ug/L #	73
15) Methylene chloride		2.617	84	1266	3.52	ug/L	78
28) Cis-1,2-dichloroethene		3.596	96	10593	8.04	ug/L	87
29) 1,2-dichloroethene(total)		3.596	96	10865m	9.03	ug/L	
46) Trichloroethene		4.896	95	6928	4.92	ug/L #	73

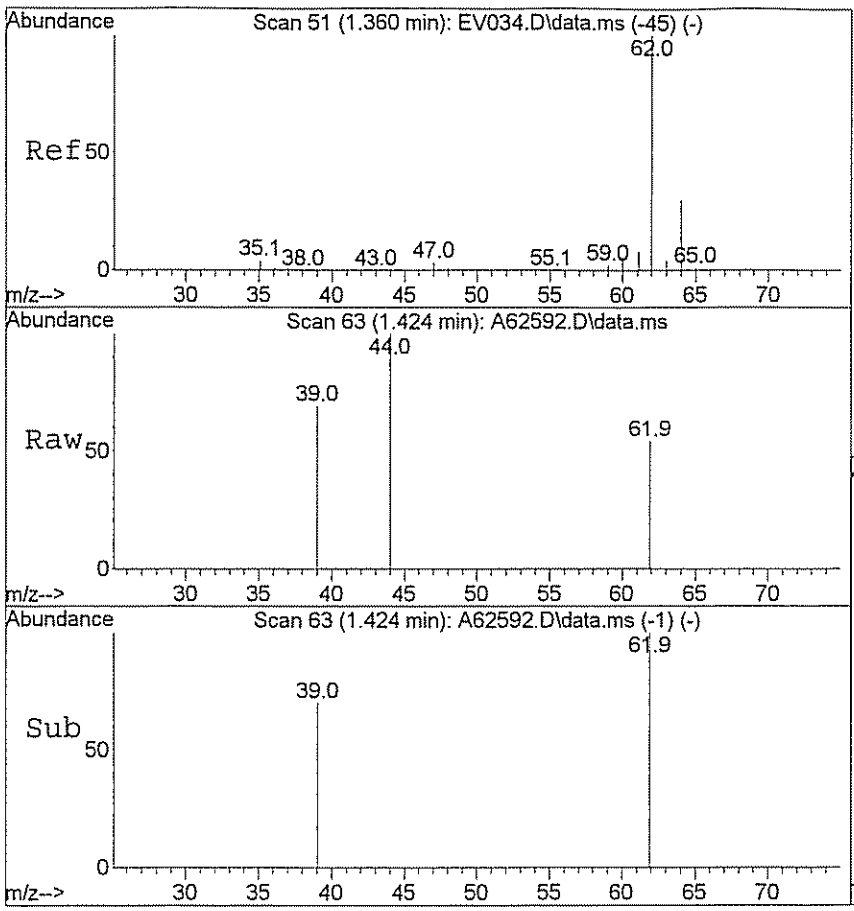
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62592.D
Acq On : 26 Mar 2009 6:52 pm
Operator : SM
Sample : 903098-005
Misc : OUI-16GW10-0309,CH2M HILL,WATER
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Mar 31 08:07:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

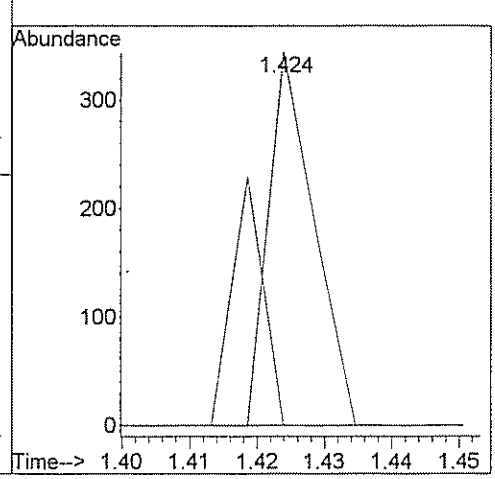


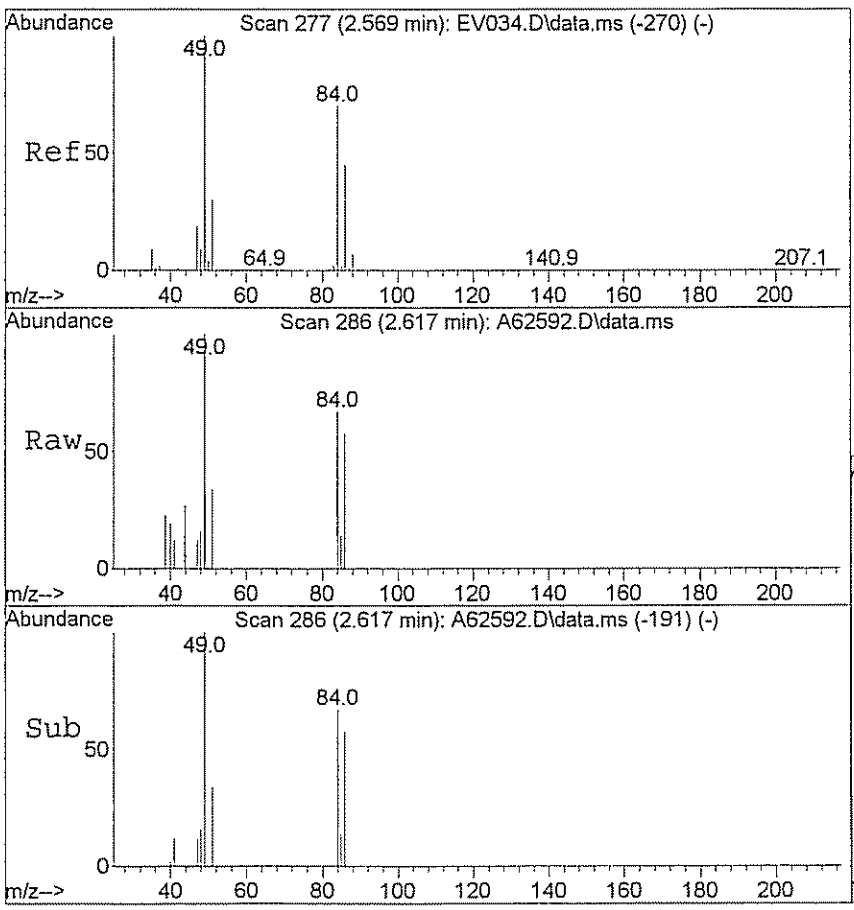


#4
Vinyl chloride
Concen: 4.82 ug/L
RT: 1.424 min Scan# 63
Delta R.T. 0.011 min
Lab File: A62592.D
Acq: 26 Mar 2009 6:52 pm

Tgt Ion: 62 Resp: 163

Ion	Ratio	Lower	Upper
62	100		
64	45.4	24.5	36.7#

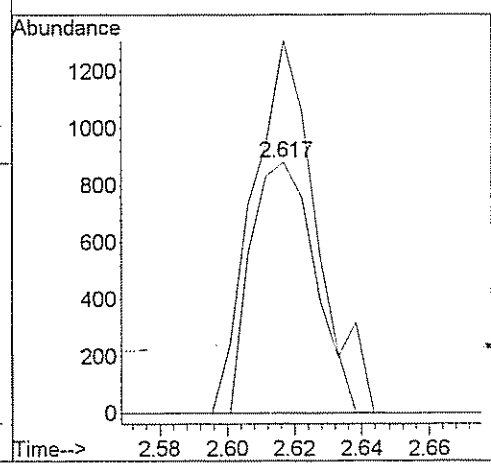


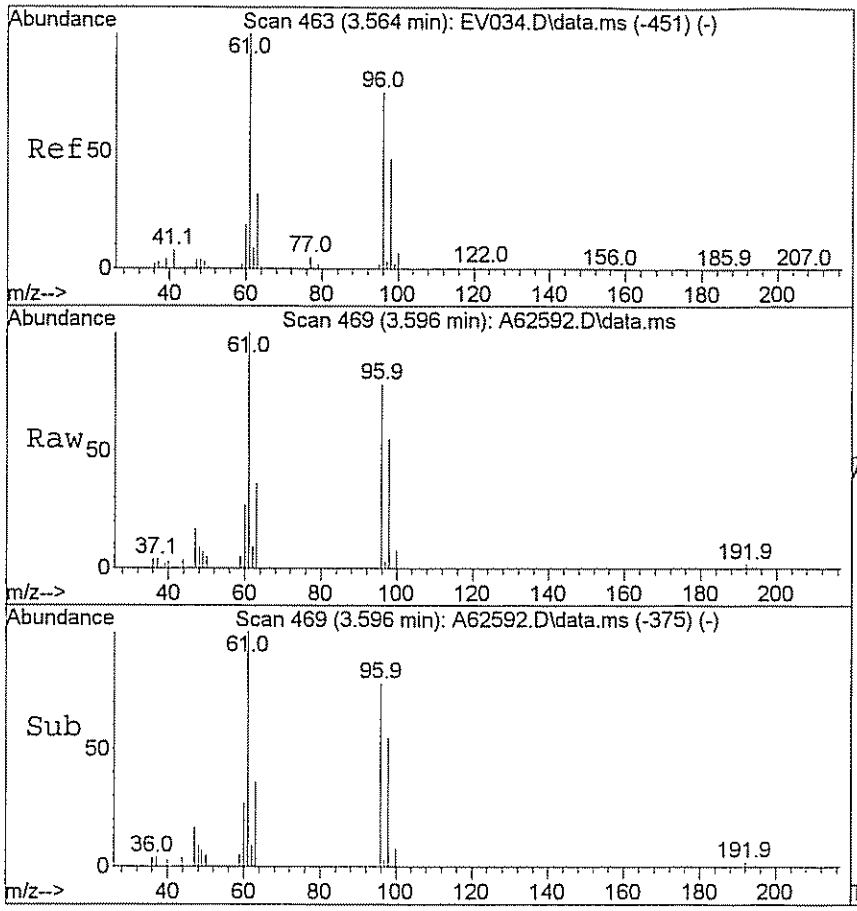


#15
Methylene chloride
Concen: 3.52 ug/L
RT: 2.617 min Scan# 286
Delta R.T. 0.011 min
Lab File: A62592.D
Acq: 26 Mar 2009 6:52 pm

Tgt Ion: 84 Resp: 1266

Ion	Ratio	Lower	Upper
84	100		
49	128.1	125.9	188.9

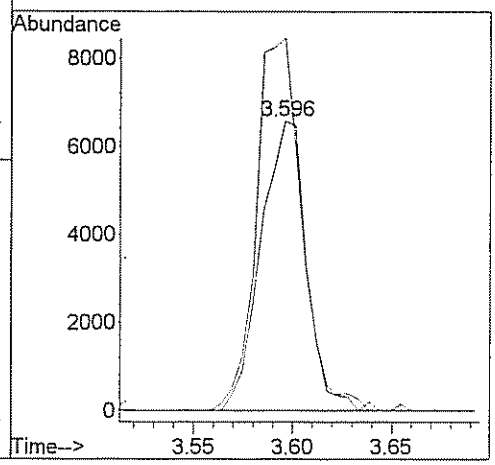


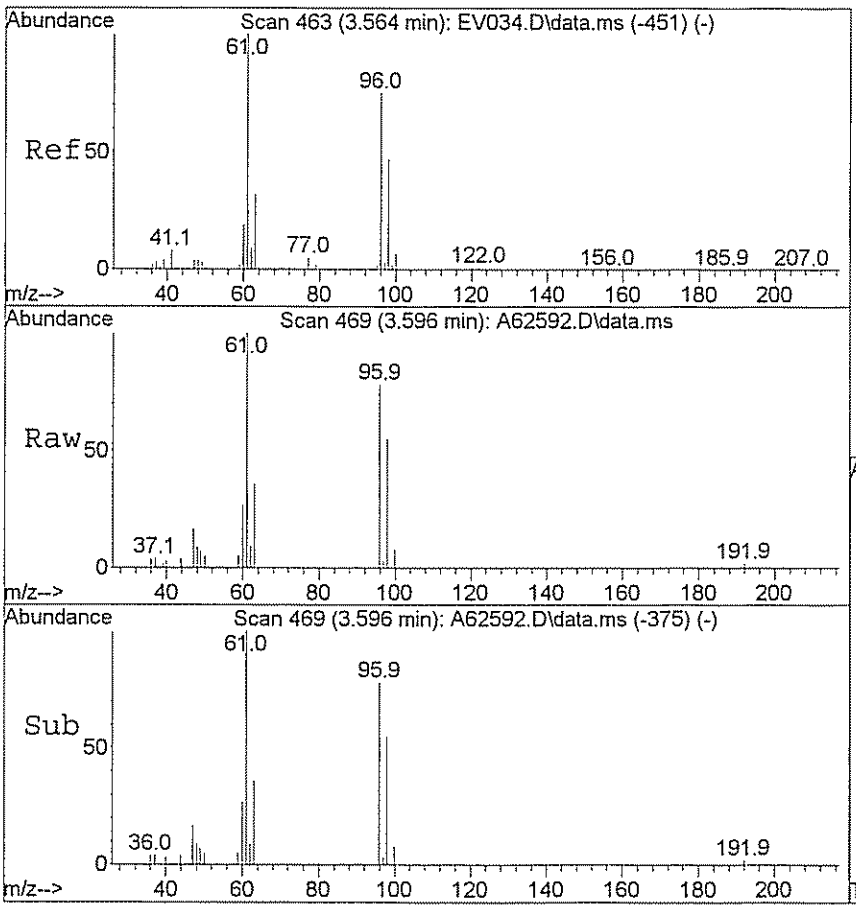


#28
Cis-1,2-dichloroethene
Concen: 8.04 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62592.D
Acq: 26 Mar 2009 6:52 pm

Tgt Ion: 96 Resp: 10593

Ion	Ratio	Lower	Upper
96	100		
61	127.4	115.0	172.6

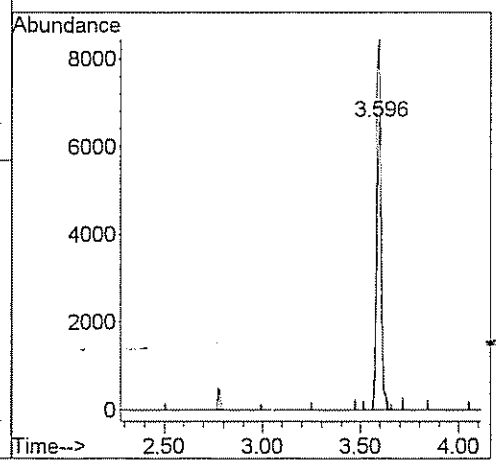


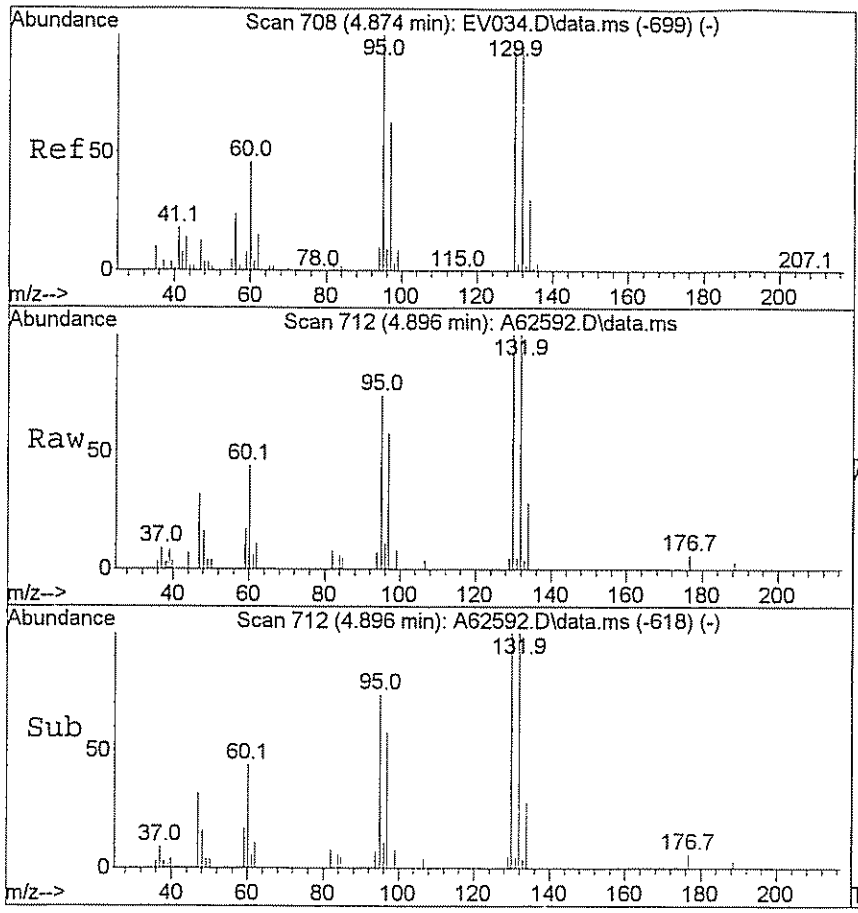


#29
1,2-dichloroethene(total)
Concen: 9.03 ug/L m
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62592.D
Acq: 26 Mar 2009 6:52 pm

Tgt Ion: 96 Resp: 10865

Ion	Ratio	Lower	Upper
96	100		
61	124.2	115.0	172.6

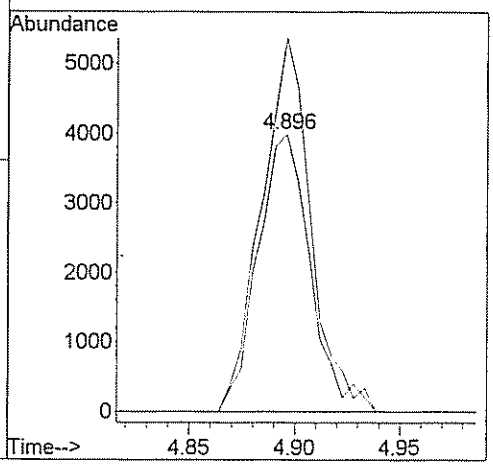




#46
Trichloroethene
Concen: 4.92 ug/L
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62592.D
Acq: 26 Mar 2009 6:52 pm

Tgt Ion: 95 Resp: 6928

Ion	Ratio	Lower	Upper
95	100		
130	126.5	79.7	119.5#



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-010-1/3
Sample Volume :	5	Lab File ID :	A62594.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.8	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-010-1/3
Sample Volume :	5	Lab File ID :	A62594.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.0	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1100	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-010-1/3
Sample Volume :	5	Lab File ID :	A62594.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	8.5	
156-59-2	cis-1,2-Dichloroethene	610	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	250	E
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62594.D
Acq On : 26 Mar 2009 7:33 pm
Operator : SM
Sample : 903098-006
Misc : OUI-MW53-0309,CH2M HILL,WATER
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Mar 31 08:05:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

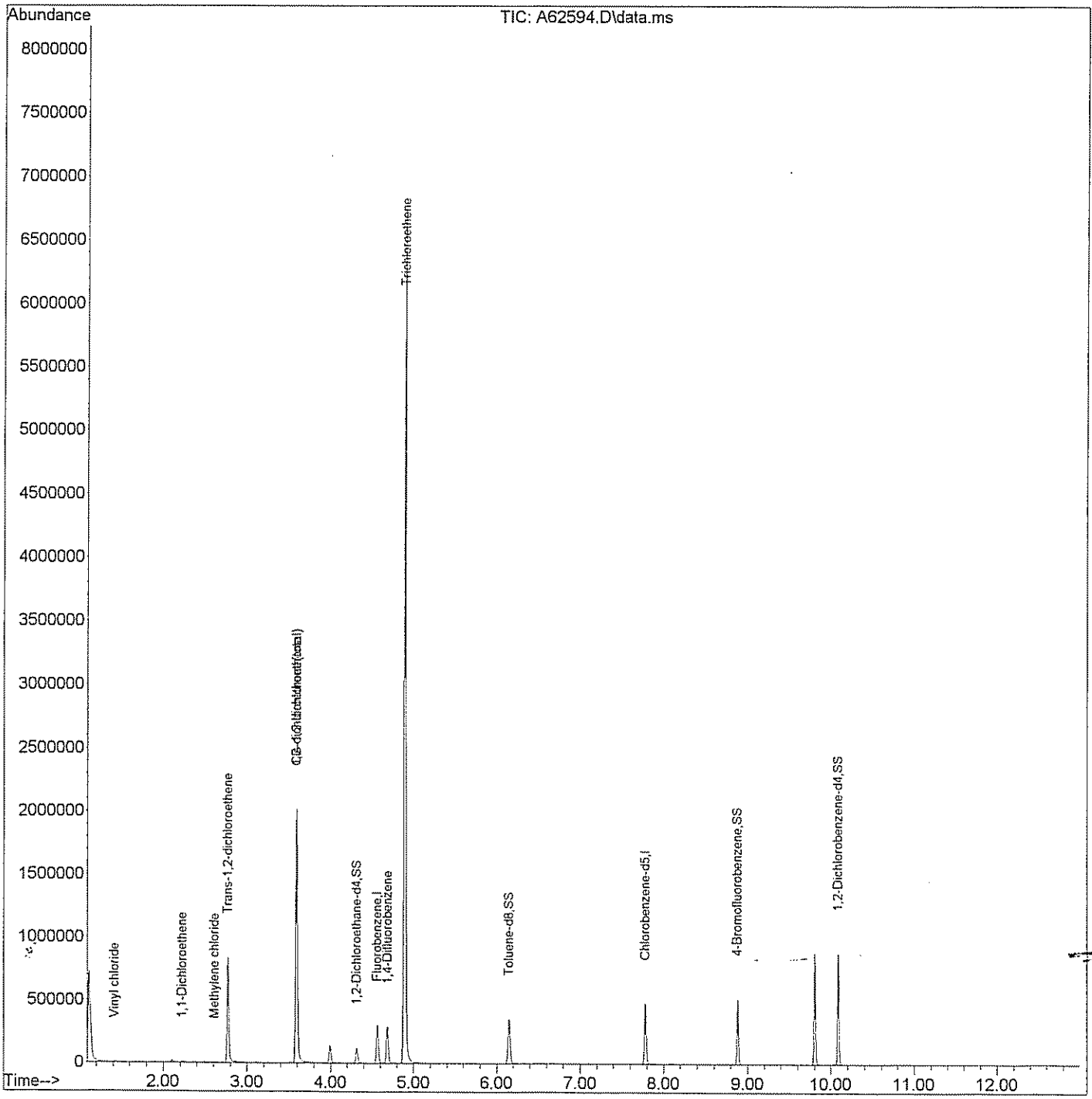
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	228541	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	213117	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.779	117	229183	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	65037	51.51	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.02%				
53) Toluene-d8	6.148	98	217458	45.97	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 91.94%				
75) 4-Bromofluorobenzene	8.881	95	105310	46.30	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 92.60%				
91) 1,2-Dichlorobenzene-d4	10.085	152	155252	62.57	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 125.14%				
Target Compounds							Qvalue
4) Vinyl chloride	1.419	62	4107	8.48	ug/L		93
12) 1,1-Dichloroethene	2.226	96	1484	1.77	ug/L		82
15) Methylene chloride	2.612	84	470	2.98	ug/L	#	1
16) Trans-1,2-dichloroethene	2.772	96	225216	246.39	ug/L		83
28) Cis-1,2-dichloroethene	3.591	96	664384	611.18	ug/L		81
29) 1,2-dichloroethene(total)	3.591	96	894386m	901.12	ug/L		
46) Trichloroethene	4.896	95	1347445	1143.96	ug/L	#	64

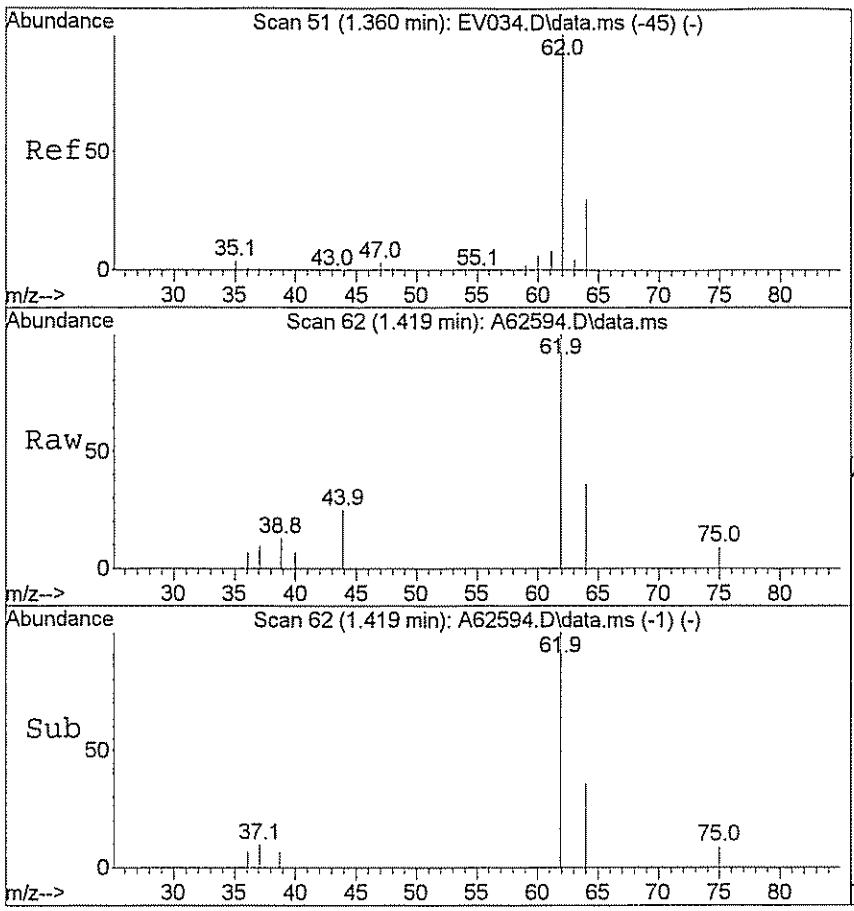
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62594.D
Acq On : 26 Mar 2009 7:33 pm
Operator : SM
Sample : 903098-006
Misc : OUI-MW53-0309,CH2M HILL,WATER
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Mar 31 08:05:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

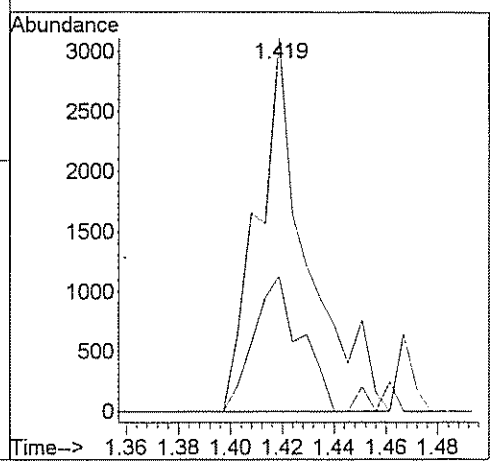


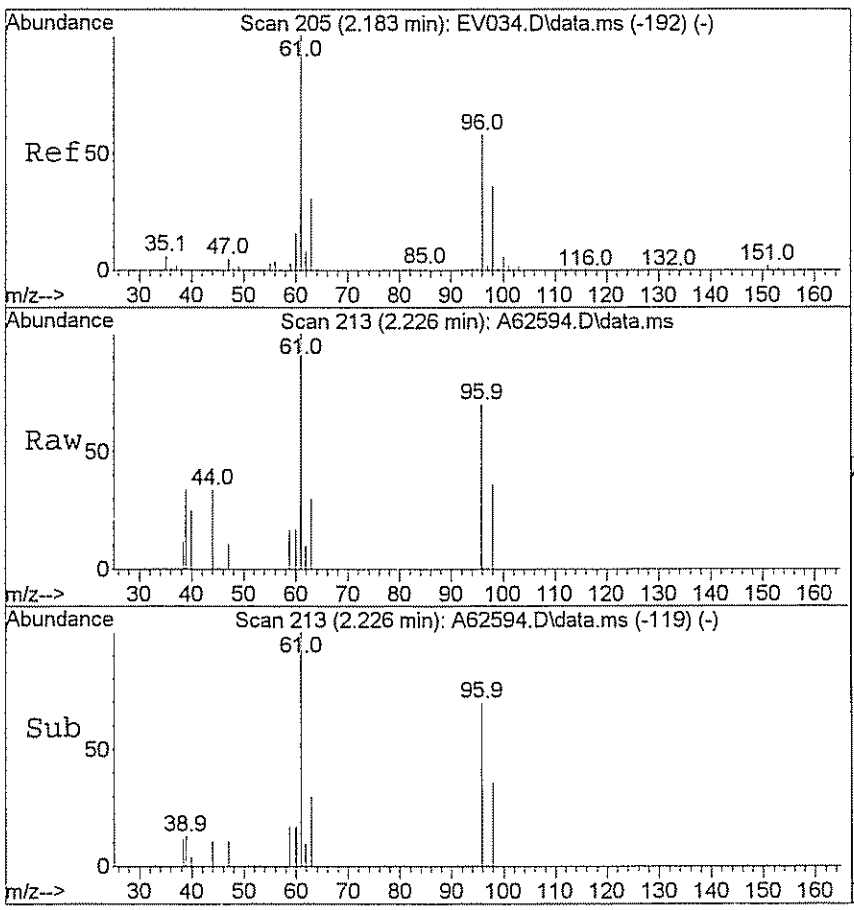


#4
Vinyl chloride
Concen: 8.48 ug/L
RT: 1.419 min Scan# 62
Delta R.T. 0.006 min
Lab File: A62594.D
Acq: 26 Mar 2009 7:33 pm

Tgt Ion: 62 Resp: 4107

Ion	Ratio	Lower	Upper
62	100		
64	34.6	24.5	36.7

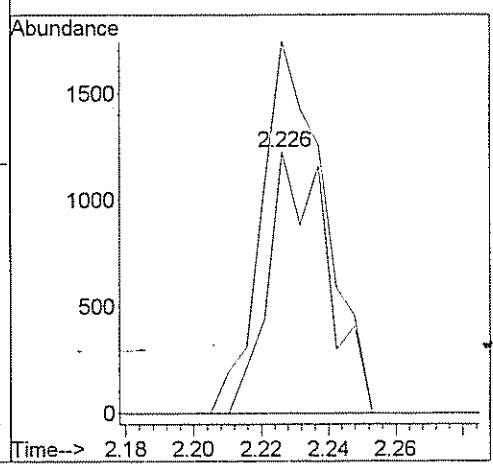


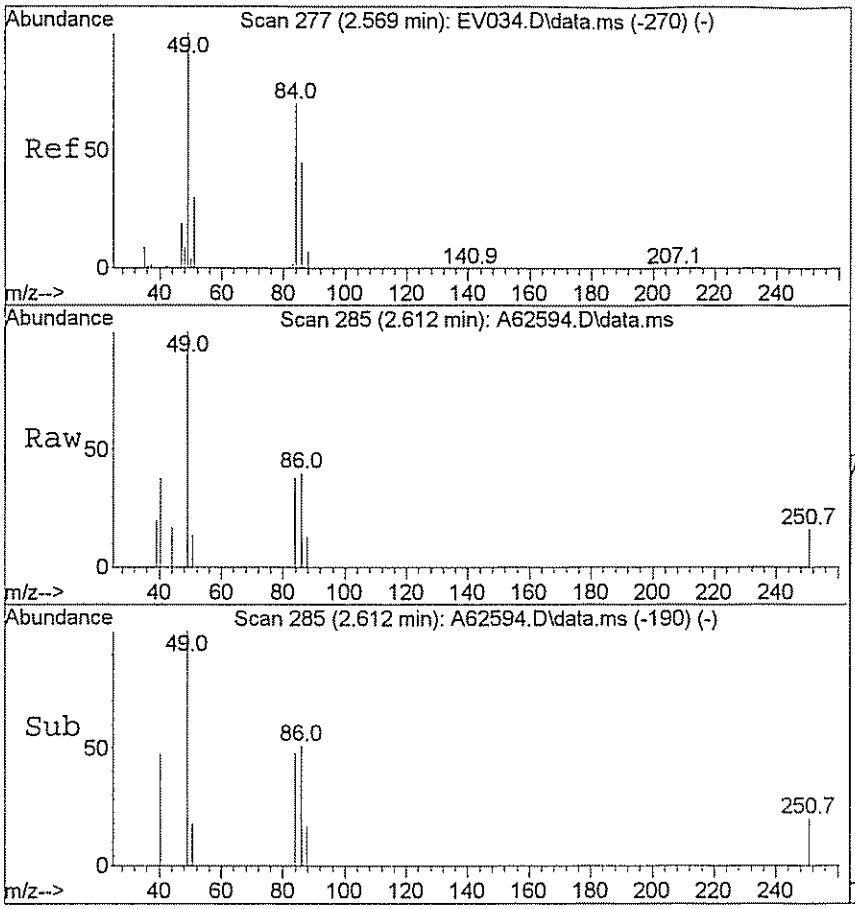


#12
1,1-Dichloroethene
Concen: 1.77 ug/L
RT: 2.226 min Scan# 213
Delta R.T. 0.000 min
Lab File: A62594.D
Acq: 26 Mar 2009 7:33 pm

Tgt Ion: 96 Resp: 1484

Ion	Ratio	Lower	Upper
96	100		
61	152.5	142.8	214.2

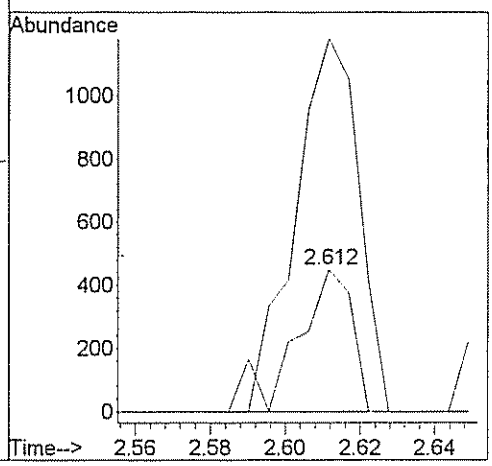


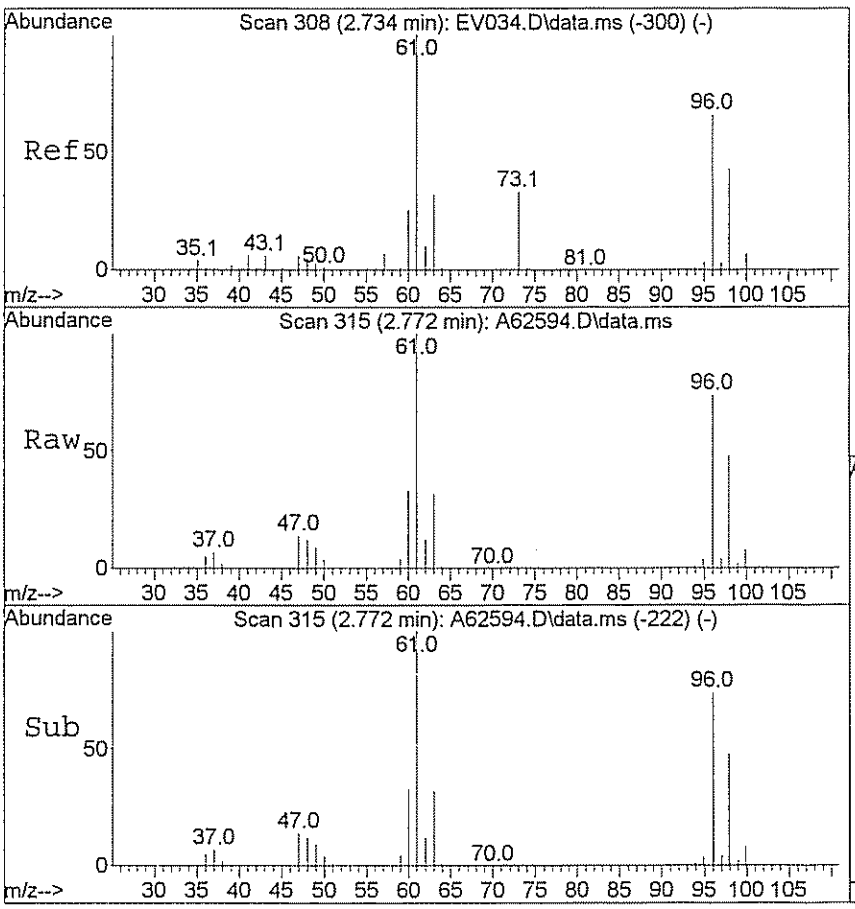


#15
Methylene chloride
Concen: 2.98 ug/L
RT: 2.612 min Scan# 285
Delta R.T. 0.006 min
Lab File: A62594.D
Acq: 26 Mar 2009 7:33 pm

Tgt Ion: 84 Resp: 470

Ion	Ratio	Lower	Upper
84	100		
49	297.0	125.9	188.9#

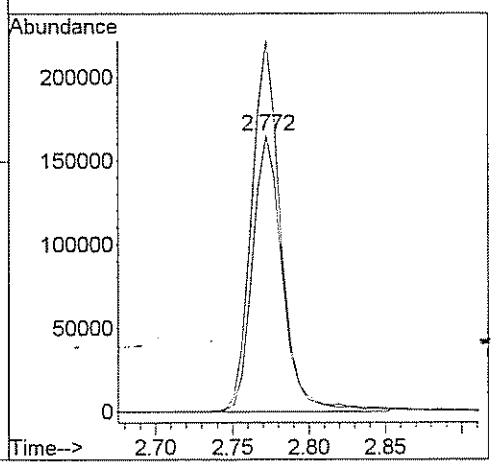


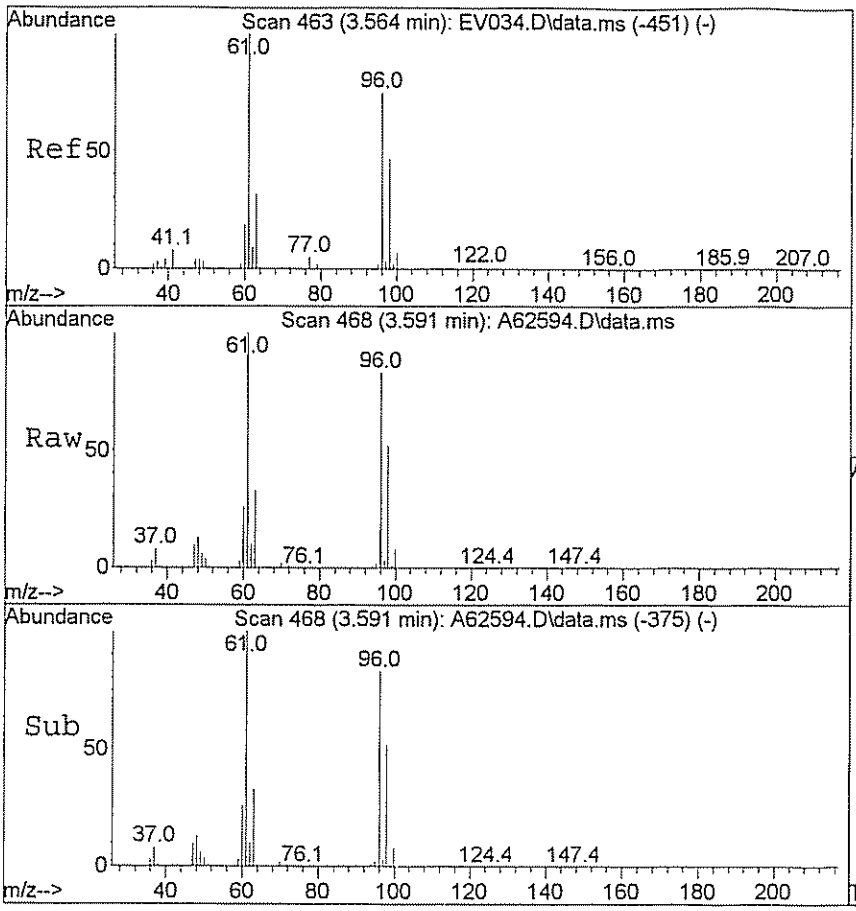


#16
Trans-1,2-dichloroethene
Concen: 246.39 ug/L
RT: 2.772 min Scan# 315
Delta R.T. 0.000 min
Lab File: A62594.D
Acq: 26 Mar 2009 7:33 pm

Tgt Ion: 96 Resp: 225216

Ion	Ratio	Lower	Upper
96	100		
61	132.5	124.0	186.0

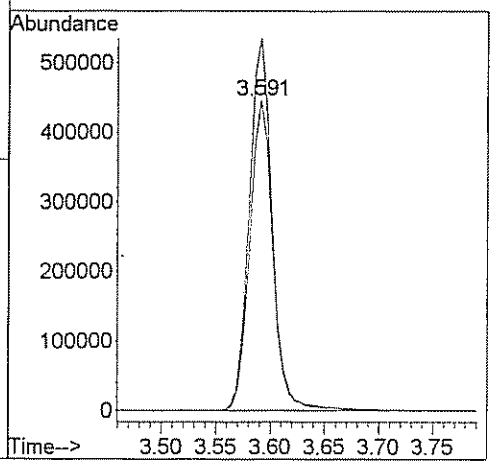


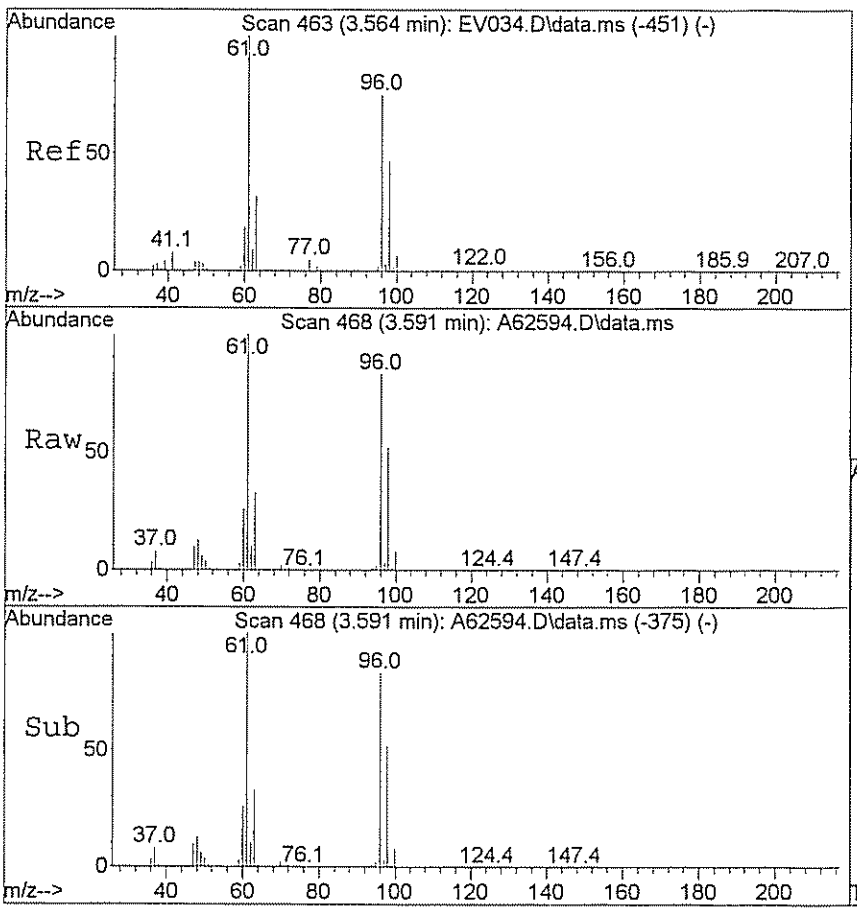


#28
Cis-1,2-dichloroethene
Concen: 611.18 ug/L
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62594.D
Acq: 26 Mar 2009 7:33 pm

Tgt Ion: 96 Resp: 664384

Ion	Ratio	Lower	Upper
96	100		
61	119.9	115.0	172.6

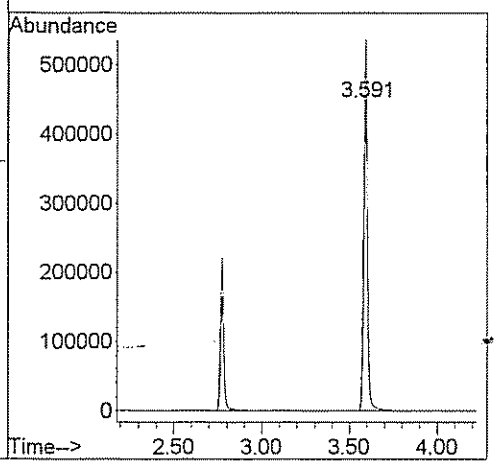


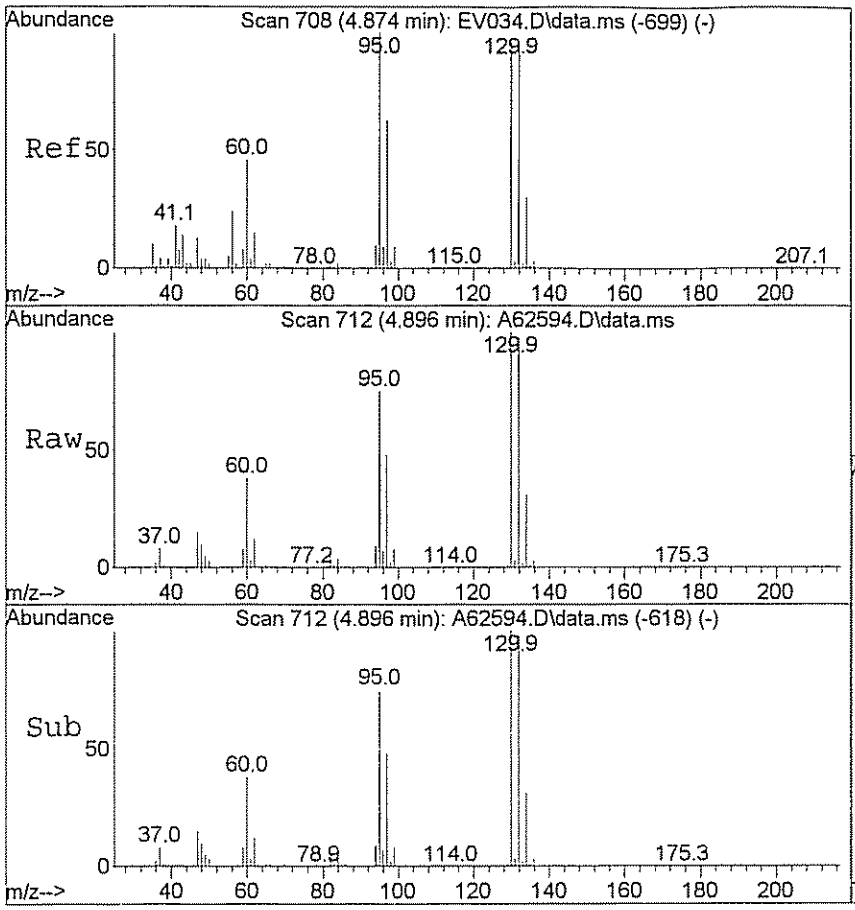


#29
1,2-dichloroethene(total)
Concen: 901.12 ug/L m
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62594.D
Acq: 26 Mar 2009 7:33 pm

Tgt Ion: 96 Resp: 894386

Ion	Ratio	Lower	Upper
96	100		
61	89.1	115.0	172.6#

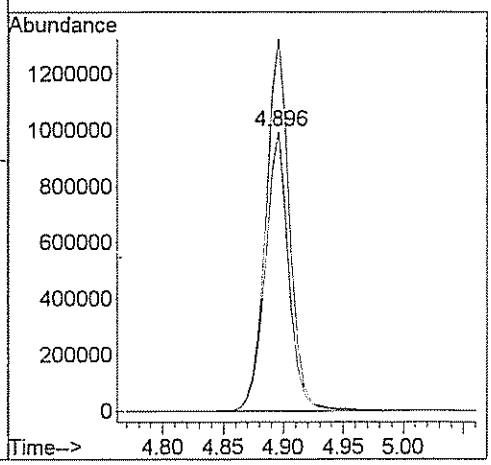




#46
Trichloroethene
Concen: 1143.96 ug/L
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62594.D
Acq: 26 Mar 2009 7:33 pm

Tgt Ion: 95 Resp: 1347445

Ion	Ratio	Lower	Upper
95	100		
130	135.7	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-011-2/3
Sample Volume :	.2	Lab File ID :	A62644.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	25	U
71-55-6	1,1,1-Trichloroethane	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
75-34-3	1,1-Dichloroethane	25	U
75-35-4	1,1-Dichloroethene	25	U
563-58-6	1,1-Dichloropropene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
96-12-8	1,2-Dibromo-3-Chloropropane	50	U
95-50-1	1,2-Dichlorobenzene	25	U
107-06-2	1,2-Dichloroethane	25	U
78-87-5	1,2-Dichloropropane	25	U
108-67-8	1,3,5-trimethylbenzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
142-28-9	1,3-Dichloropropane	25	U
106-46-7	1,4-Dichlorobenzene	25	U
594-20-7	2,2-Dichloropropane	25	U
78-93-3	2-Butanone	130	U
95-49-8	2-Chlorotoluene	25	U
591-78-6	2-Hexanone	130	U
106-43-4	4-Chlorotoluene	25	U
99-87-6	4-Isopropyltoluene	25	U
108-10-1	4-Methyl-2-Pentanone	130	U
67-64-1	Acetone	130	U
71-43-2	Benzene	25	U
108-86-1	Bromobenzene	25	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-011-2/3
Sample Volume :	.2	Lab File ID :	A62644.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	25	U
75-27-4	Bromodichloromethane	25	U
75-25-2	Bromoform	25	U
74-83-9	Bromomethane	25	U
75-15-0	Carbon Disulfide	25	U
56-23-5	Carbon Tetrachloride	25	U
108-90-7	Chlorobenzene	25	U
75-00-3	Chloroethane	25	U
67-66-3	Chloroform	25	U
74-87-3	Chloromethane	25	U
110-82-7	Cyclohexane	25	U
124-48-1	Dibromochloromethane	25	U
74-95-3	Dibromomethane	25	U
75-71-8	Dichlorodifluoromethane	25	U
100-41-4	Ethylbenzene	25	U
106-93-4	Ethylene DiBromide	25	U
76-13-1	Freon 113	25	U
87-68-3	Hexachlorobutadiene	25	U
98-82-8	Isopropylbenzene	25	U
79-20-9	Methyl Acetate	25	U
108-87-2	Methylcyclohexane	25	U
75-09-2	Methylene Chloride	25	U
91-20-3	Naphthalene	25	U
135-98-8	Sec-Butylbenzene	25	U
100-42-5	Styrene	25	U
127-18-4	Tetrachloroethylene	25	U
108-88-3	Toluene	25	U
79-01-6	Trichloroethene	510	
75-69-4	Trichlorofluoromethane	25	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-011-2/3
Sample Volume :	.2	Lab File ID :	A62644.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	25	U
75-01-4	Vinyl Chloride	25	U
156-59-2	cis-1,2-Dichloroethene	350	
10061-01-5	cis-1,3-Dichloropropene	25	U
136777-61-2	m,p-Xylene	25	U
104-51-8	n-Butylbenzene	25	U
103-65-1	n-Propylbenzene	25	U
95-47-6	o-Xylene	25	U
98-06-6	tert-Butylbenzene	25	U
1634-04-4	tert-butyl methyl ether	25	U
156-60-5	trans-1,2-dichloroethene	140	
10061-02-6	trans-1,3-dichloropropene	25	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62644.D
Acq On : 27 Mar 2009 2:12 pm
Operator : SM
Sample : 903098-006
Misc : OUI-MW53-0309,CH2M HILL,25X
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 31 10:52:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

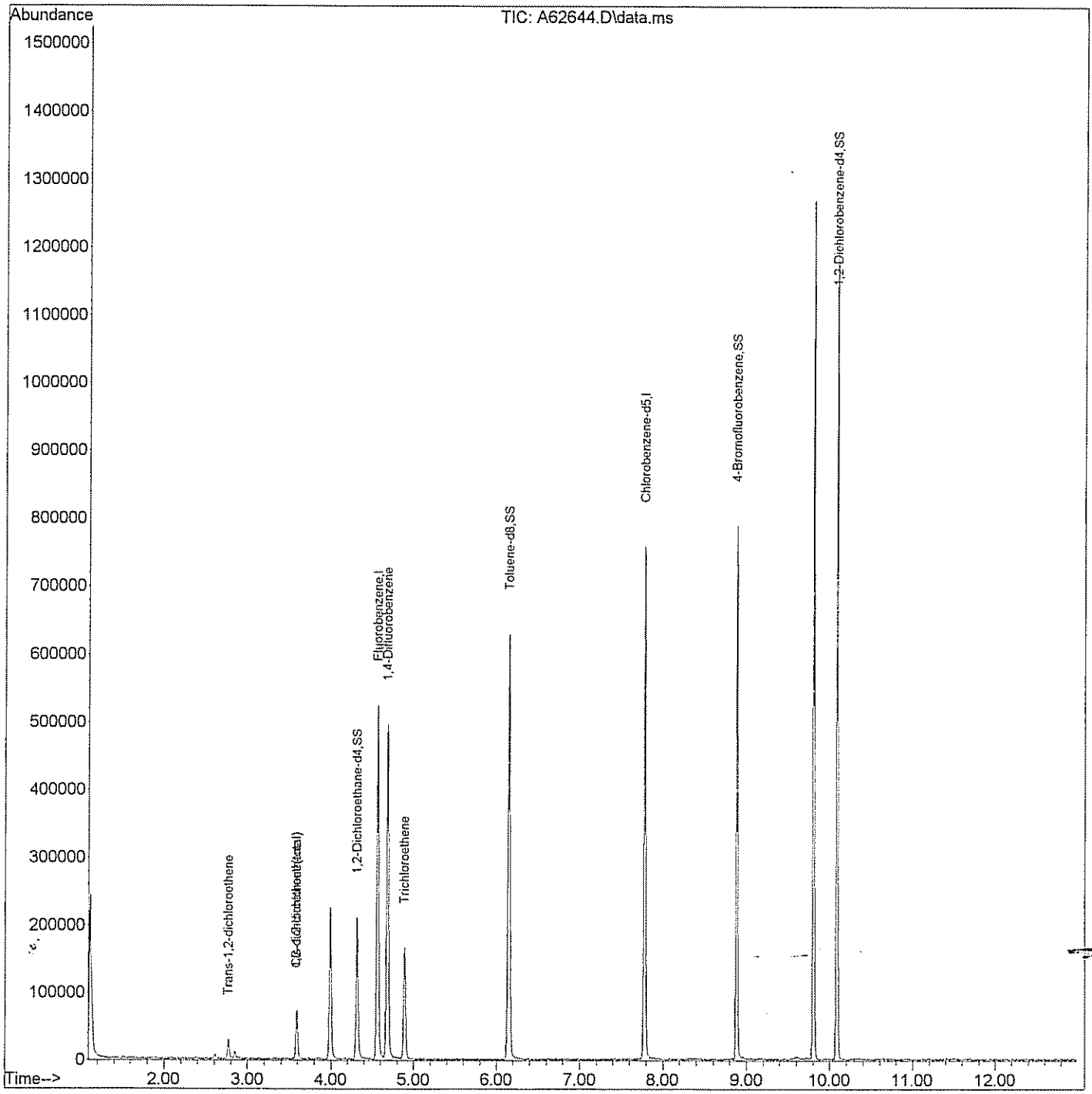
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	394765	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.682	114	357814	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	345511	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	108936	49.95	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.90%			
53) Toluene-d8	6.148	98	377753	47.56	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 95.12%			
75) 4-Bromofluorobenzene	8.881	95	163526	47.69	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.38%			
91) 1,2-Dichlorobenzene-d4	10.085	152	205092	54.83	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 109.66%			
Target Compounds						Qvalue
16) Trans-1,2-dichloroethene	2.772	96	8686	5.50	ug/L #	76
28) Cis-1,2-dichloroethene	3.585	96	26312	14.01	ug/L #	75
29) 1,2-dichloroethene(total)	3.585	96	35574m	20.75	ug/L	
46) Trichloroethene	4.891	95	40237	20.35	ug/L	87

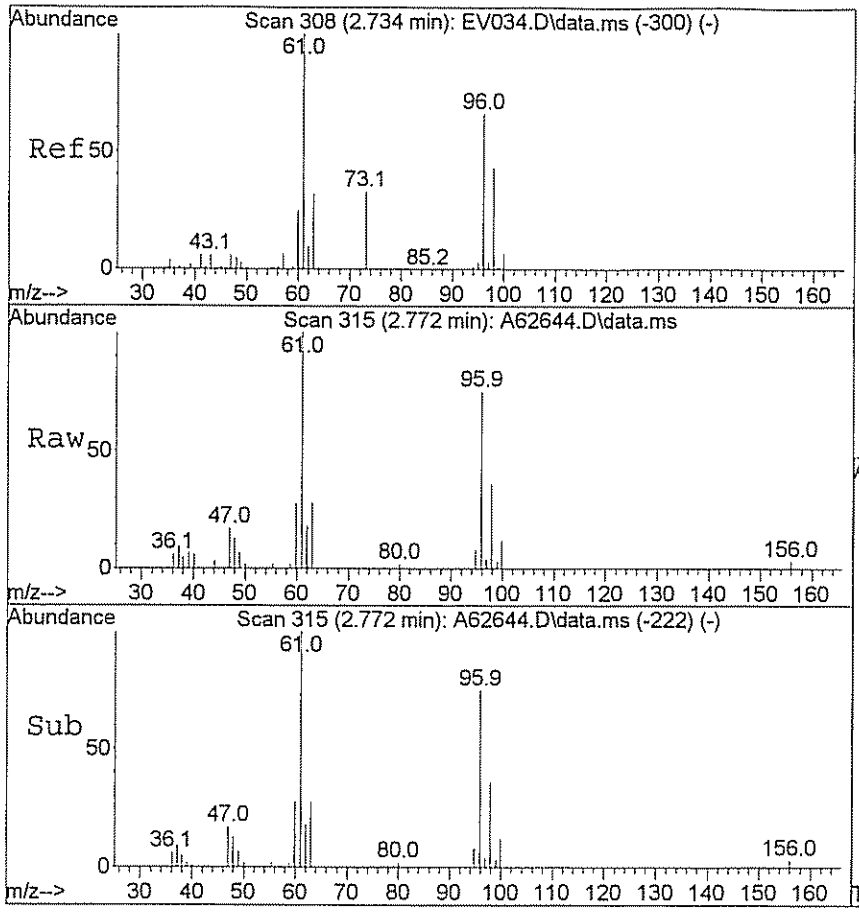
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62644.D
Acq On : 27 Mar 2009 2:12 pm
Operator : SM
Sample : 903098-006
Misc : OUI-MW53-0309,CH2M HILL,25X
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 31 10:52:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

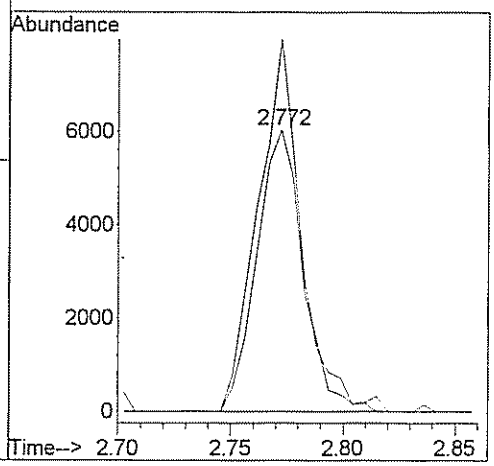


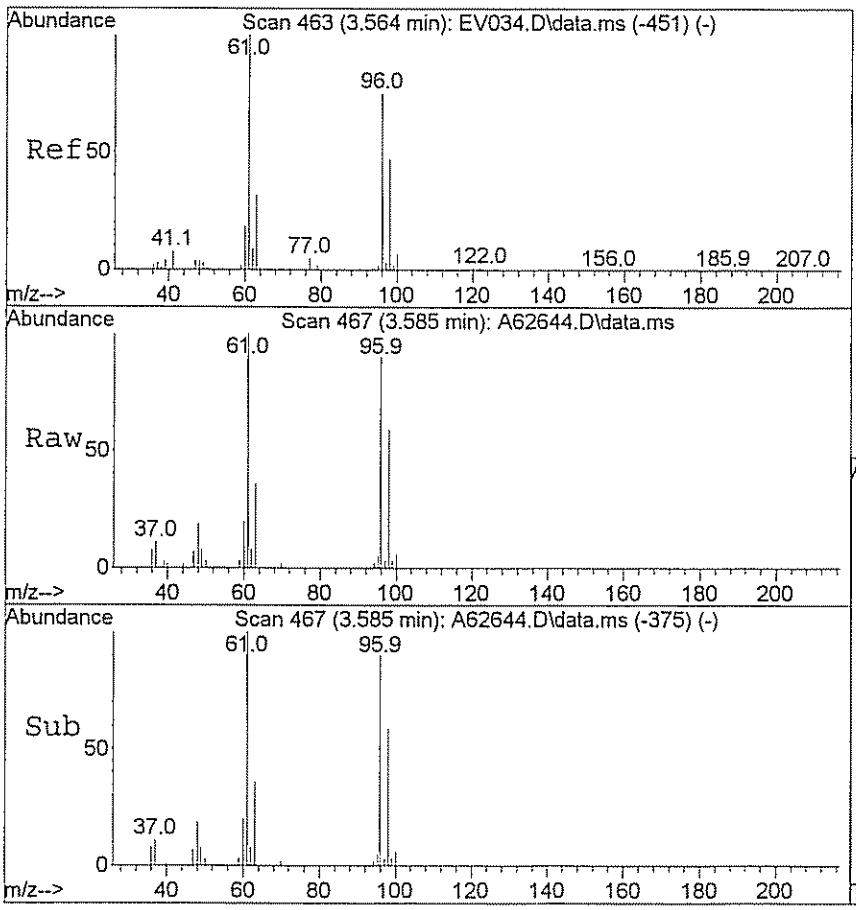


#16
Trans-1,2-dichloroethene
Concen: 5.50 ug/L
RT: 2.772 min Scan# 315
Delta R.T. 0.000 min
Lab File: A62644.D
Acq: 27 Mar 2009 2:12 pm

Tgt Ion: 96 Resp: 8686

Ion	Ratio	Lower	Upper
96	100		
61	123.6	124.0	186.0#

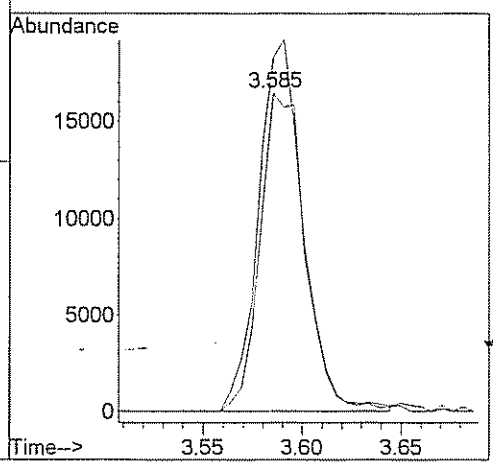


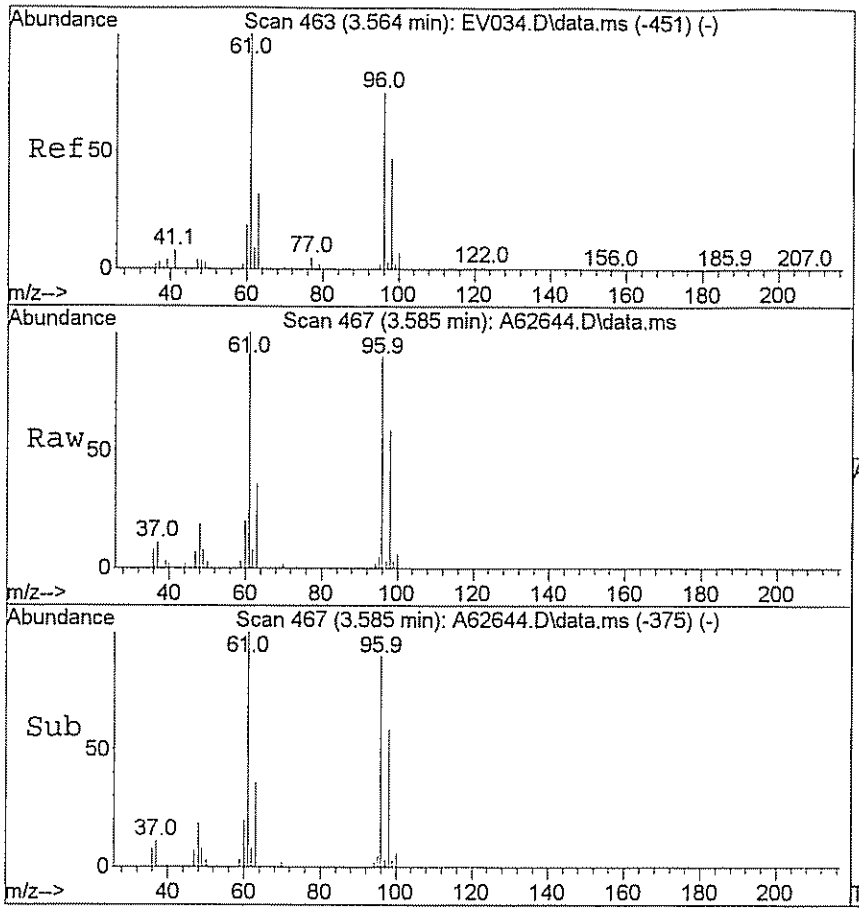


#28
Cis-1,2-dichloroethene
Concen: 14.01 ug/L
RT: 3.585 min Scan# 467
Delta R.T. -0.006 min
Lab File: A62644.D
Acq: 27 Mar 2009 2:12 pm

Tgt Ion: 96 Resp: 26312

Ion	Ratio	Lower	Upper
96	100		
61	113.2	115.0	172.6#

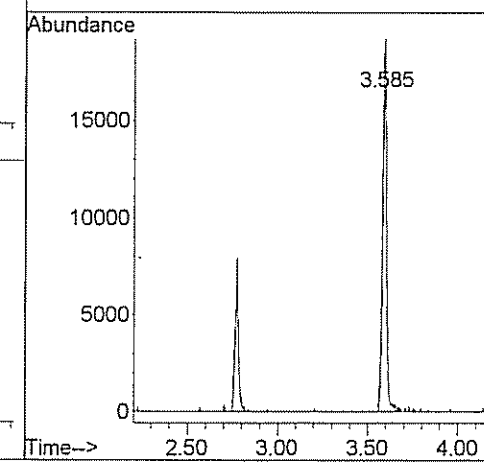


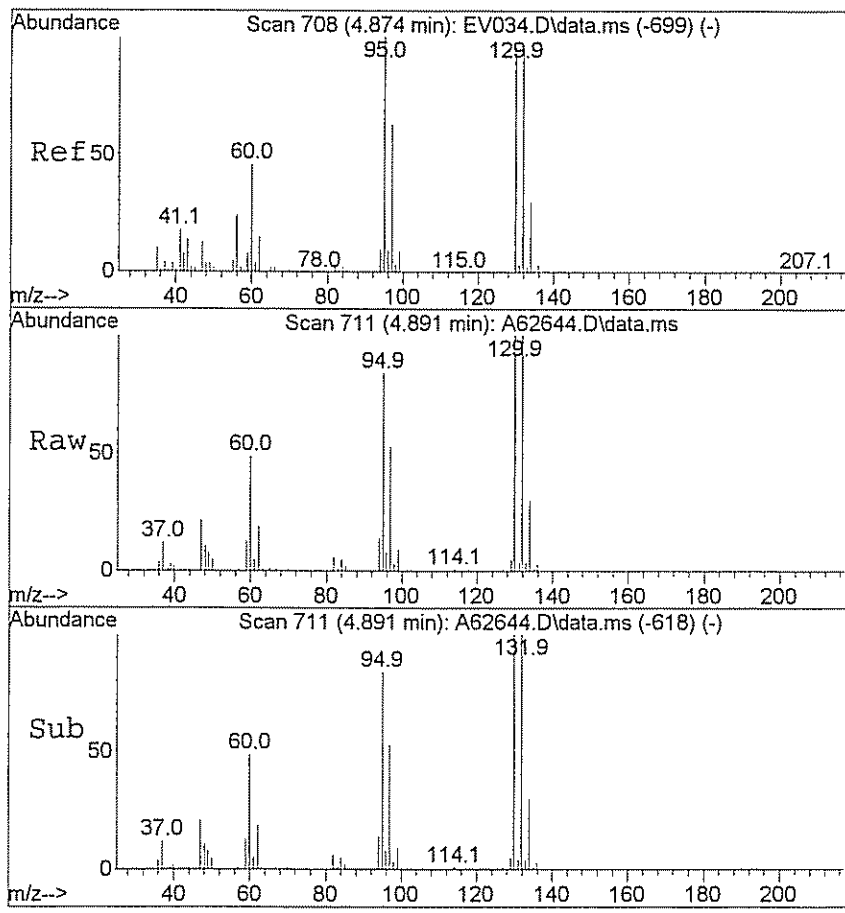


#29
1,2-dichloroethene(total)
Concen: 20.75 ug/L m
RT: 3.585 min Scan# 467
Delta R.T. -0.006 min
Lab File: A62644.D
Acq: 27 Mar 2009 2:12 pm

Tgt Ion: 96 Resp: 35574

Ion	Ratio	Lower	Upper
96	100		
61	83.8	115.0	172.6#

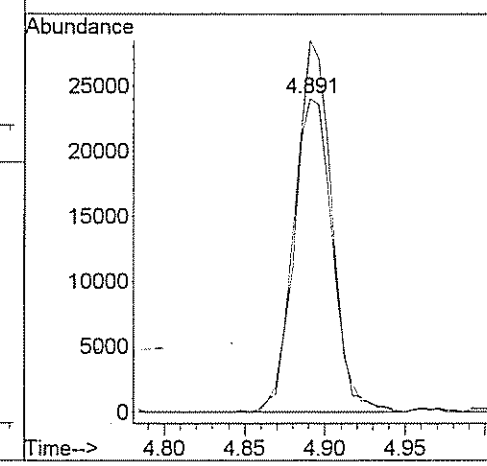




#46
Trichloroethene
Concen: 20.35 ug/L
RT: 4.891 min Scan# 711
Delta R.T. 0.000 min
Lab File: A62644.D
Acq: 27 Mar 2009 2:12 pm

Tgt Ion: 95 Resp: 40237

Ion	Ratio	Lower	Upper
95	100		
130	112.5	79.7	119.5



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-013-1/3
Sample Volume :	5	Lab File ID :	A62596.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.6	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-013-1/3
Sample Volume :	5	Lab File ID :	A62596.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1200	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-013-1/3
Sample Volume :	5	Lab File ID :	A62596.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	8.9	
156-59-2	cis-1,2-Dichloroethene	590	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	240	E
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62596.D
Acq On : 26 Mar 2009 8:14 pm
Operator : SM
Sample : 903098-007
Misc : OUI-MW53P-0309,CH2M HILL,WATER
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Mar 31 08:02:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

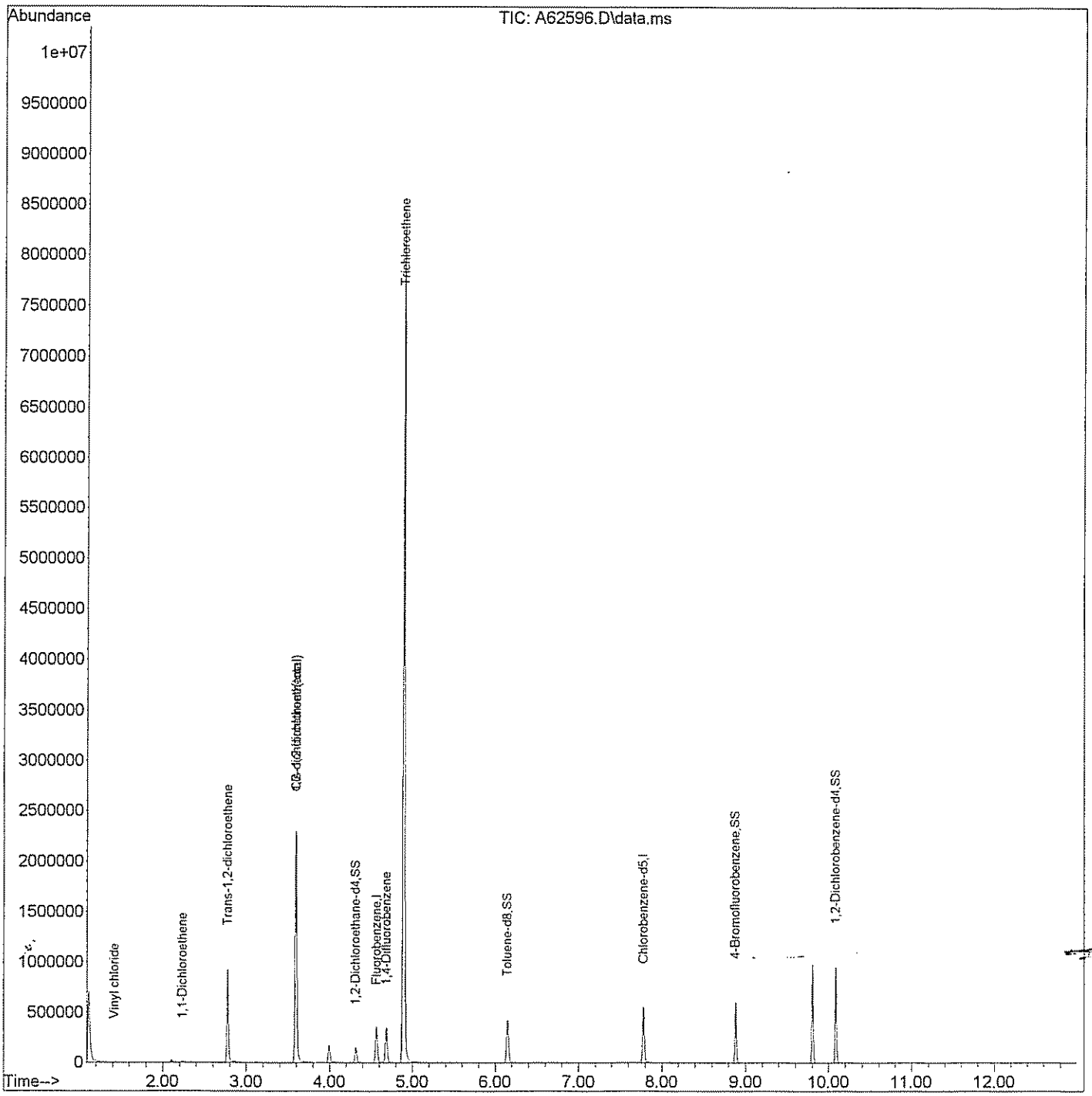
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.569	96	271645	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	249540	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	262751	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	74296	49.51	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.02%			
53) Toluene-d8	6.148	98	248357	44.84	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 89.68%			
75) 4-Bromofluorobenzene	8.881	95	118165	45.32	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 90.64%			
91) 1,2-Dichlorobenzene-d4	10.085	152	168042	59.08	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.16%			
Target Compounds						Qvalue
4) Vinyl chloride	1.424	62	5476	8.94	ug/L	93
12) 1,1-Dichloroethene	2.237	96	1596	1.60	ug/L #	73
16) Trans-1,2-dichloroethene	2.777	96	255887	235.53	ug/L	79
28) Cis-1,2-dichloroethene	3.596	96	765685	592.60	ug/L	80
29) 1,2-dichloroethene(total)	3.596	96	1024903m	868.77	ug/L	
46) Trichloroethene	4.896	95	1640773	1189.67	ug/L #	65

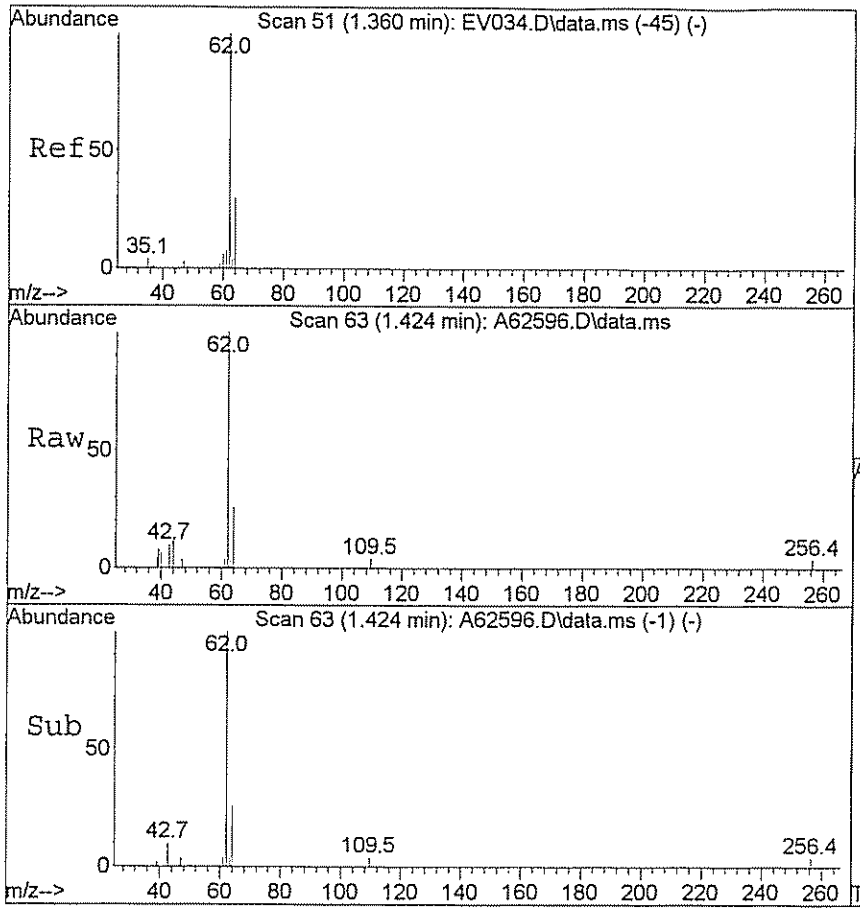
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62596.D
Acq On : 26 Mar 2009 8:14 pm
Operator : SM
Sample : 903098-007
Misc : OUI-MW53P-0309,CH2M HILL,WATER
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Mar 31 08:02:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

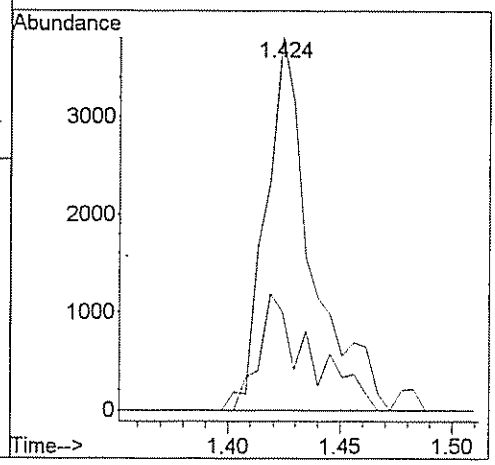


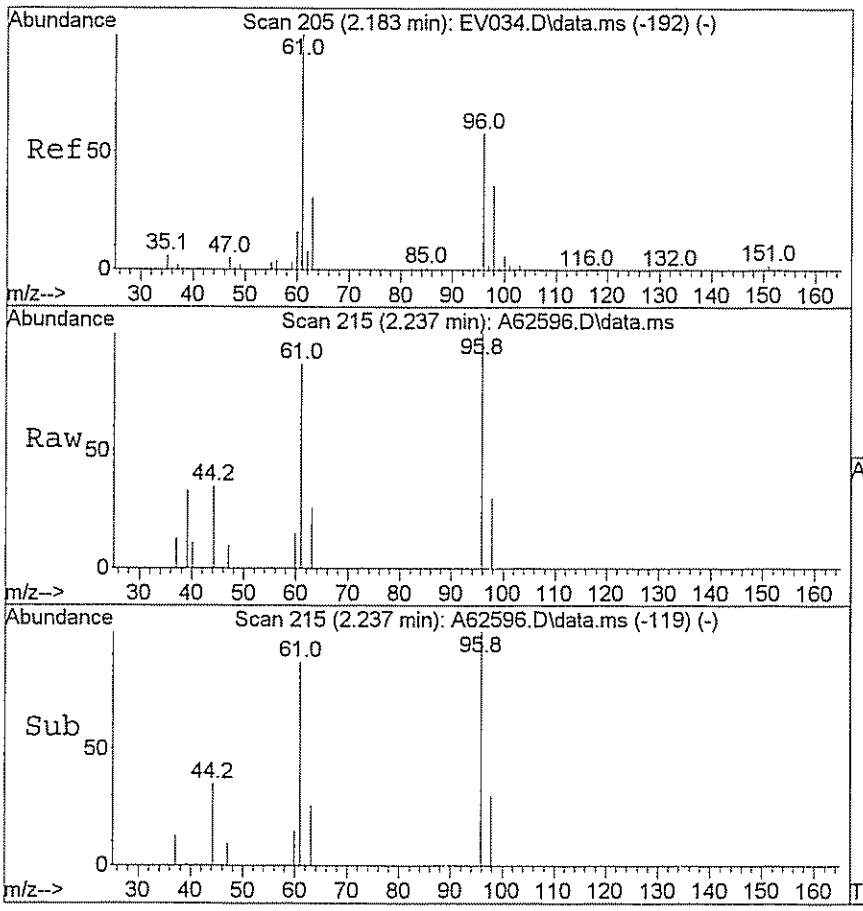


#4
Vinyl chloride
Concen: 8.94 ug/L
RT: 1.424 min Scan# 63
Delta R.T. 0.011 min
Lab File: A62596.D
Acq: 26 Mar 2009 8:14 pm

Tgt Ion: 62 Resp: 5476

Ion	Ratio	Lower	Upper
62	100		
64	34.2	24.5	36.7

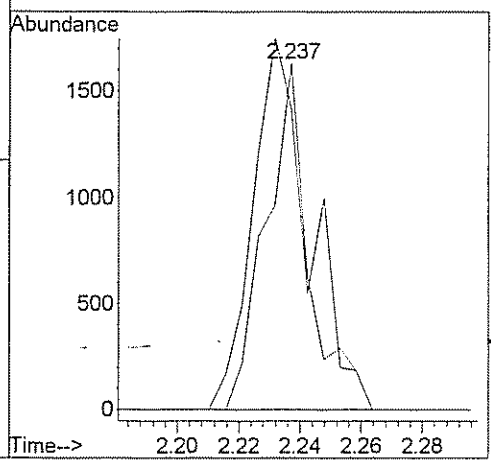


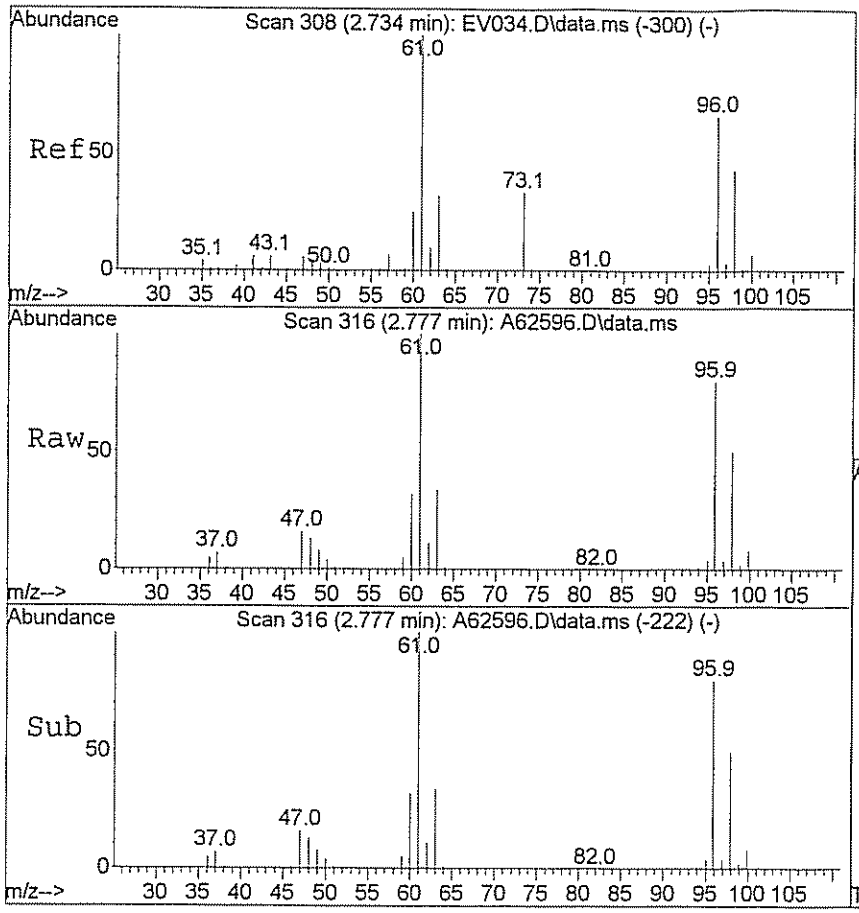


#12
1,1-Dichloroethene
Concen: 1.60 ug/L
RT: 2.237 min Scan# 215
Delta R.T. 0.011 min
Lab File: A62596.D
Acq: 26 Mar 2009 8:14 pm

Tgt Ion: 96 Resp: 1596

Ion	Ratio	Lower	Upper
96	100		
61	140.5	142.8	214.2#

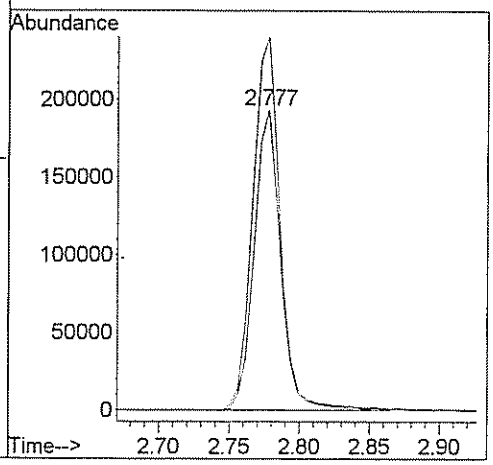


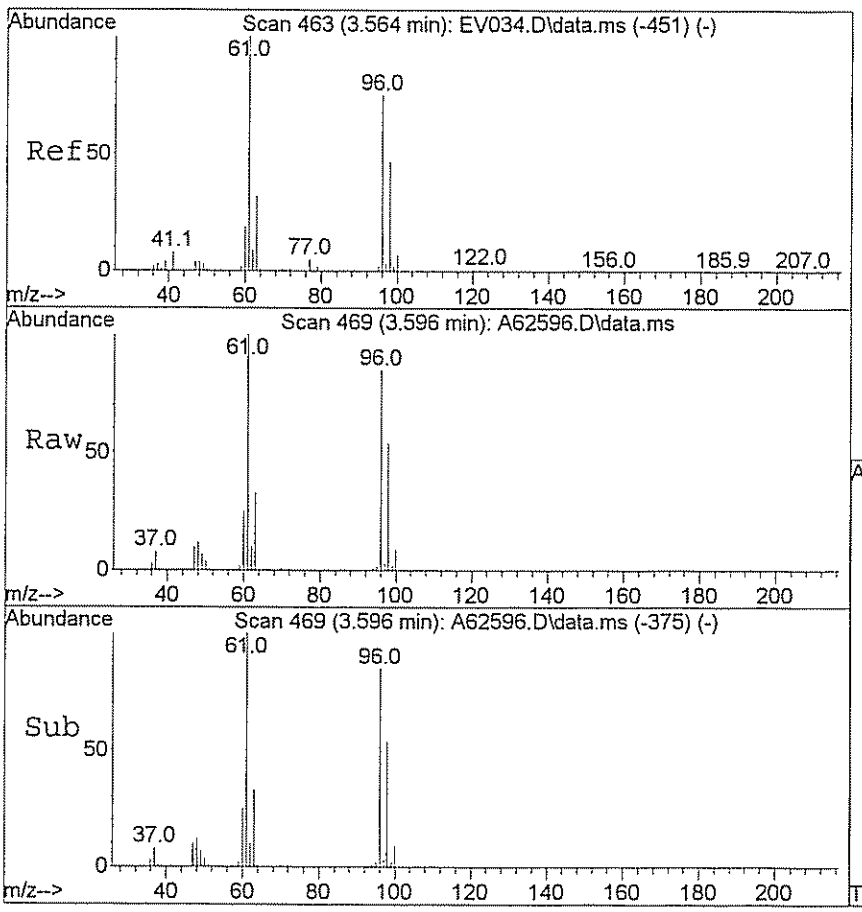


#16
Trans-1,2-dichloroethene
Concen: 235.53 ug/L
RT: 2.777 min Scan# 316
Delta R.T. 0.005 min
Lab File: A62596.D
Acq: 26 Mar 2009 8:14 pm

Tgt Ion: 96 Resp: 255887

Ion	Ratio	Lower	Upper
96	100		
61	128.0	124.0	186.0

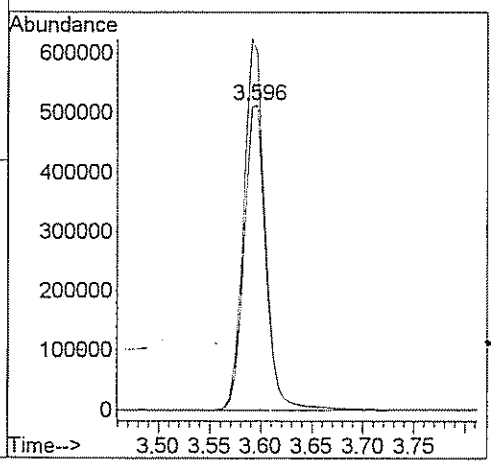


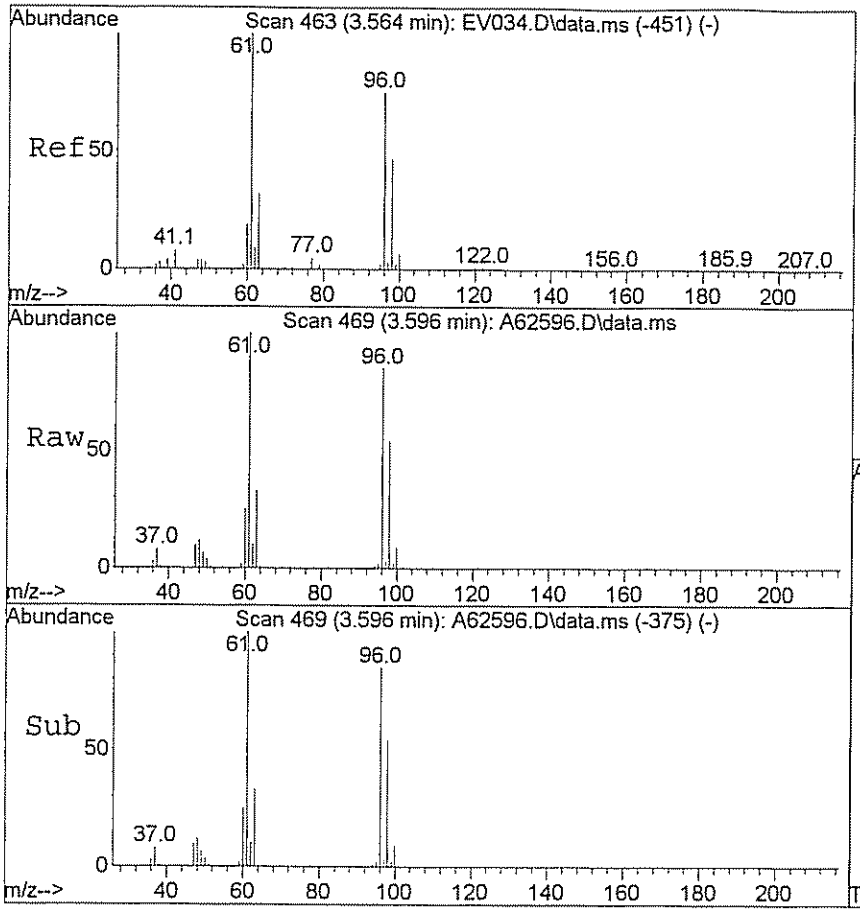


#28
Cis-1,2-dichloroethene
Concen: 592.60 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62596.D
Acq: 26 Mar 2009 8:14 pm

Tgt Ion: 96 Resp: 765685

Ion	Ratio	Lower	Upper
96	100		
61	119.2	115.0	172.6

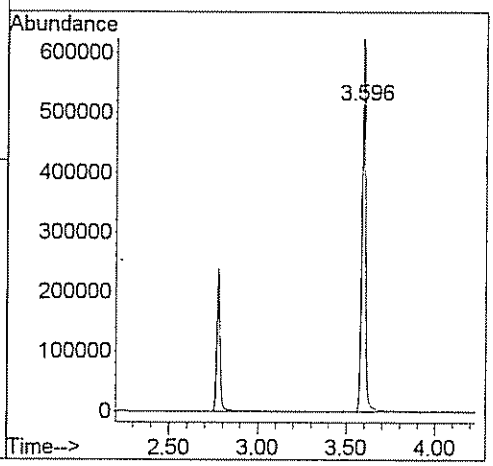


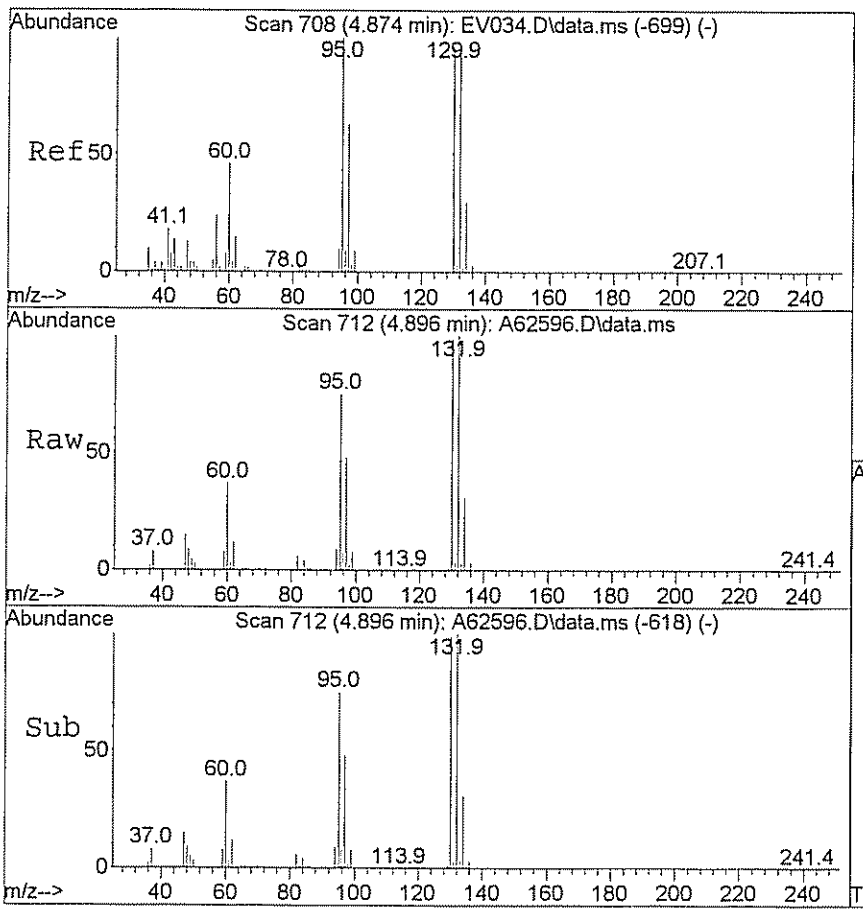


#29
1,2-dichloroethene(total)
Concen: 868.77 ug/L m
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62596.D
Acq: 26 Mar 2009 8:14 pm

Tgt Ion: 96 Resp: 1024903

Ion	Ratio	Lower	Upper
96	100		
61	89.1	115.0	172.6#

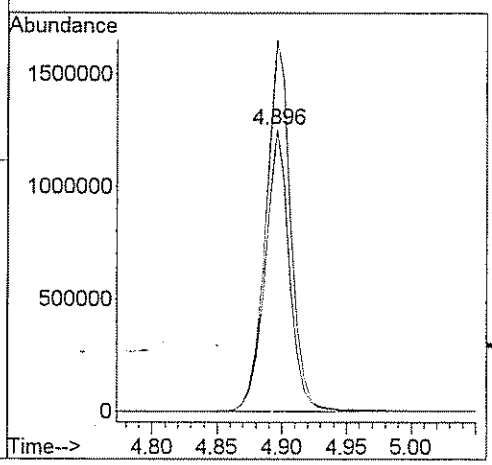




#46
Trichloroethene
Concen: 1189.67 ug/L
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62596.D
Acq: 26 Mar 2009 8:14 pm

Tgt Ion: 95 Resp: 1640773

Ion	Ratio	Lower	Upper
95	100		
130	134.8	79.7	119.5#



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-014-2/3
Sample Volume :	.2	Lab File ID :	A62646.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	25	U
71-55-6	1,1,1-Trichloroethane	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
75-34-3	1,1-Dichloroethane	25	U
75-35-4	1,1-Dichloroethene	25	U
563-58-6	1,1-Dichloropropene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
96-12-8	1,2-Dibromo-3-Chloropropane	50	U
95-50-1	1,2-Dichlorobenzene	25	U
107-06-2	1,2-Dichloroethane	25	U
78-87-5	1,2-Dichloropropane	25	U
108-67-8	1,3,5-trimethylbenzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
142-28-9	1,3-Dichloropropane	25	U
106-46-7	1,4-Dichlorobenzene	25	U
594-20-7	2,2-Dichloropropane	25	U
78-93-3	2-Butanone	130	U
95-49-8	2-Chlorotoluene	25	U
591-78-6	2-Hexanone	130	U
106-43-4	4-Chlorotoluene	25	U
99-87-6	4-Isopropyltoluene	25	U
108-10-1	4-Methyl-2-Pentanone	130	U
67-64-1	Acetone	130	U
71-43-2	Benzene	25	U
108-86-1	Bromobenzene	25	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-014-2/3
Sample Volume :	.2	Lab File ID :	A62646.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	25	U
75-27-4	Bromodichloromethane	25	U
75-25-2	Bromoform	25	U
74-83-9	Bromomethane	25	U
75-15-0	Carbon Disulfide	25	U
56-23-5	Carbon Tetrachloride	25	U
108-90-7	Chlorobenzene	25	U
75-00-3	Chloroethane	25	U
67-66-3	Chloroform	25	U
74-87-3	Chloromethane	25	U
110-82-7	Cyclohexane	25	U
124-48-1	Dibromochloromethane	25	U
74-95-3	Dibromomethane	25	U
75-71-8	Dichlorodifluoromethane	25	U
100-41-4	Ethylbenzene	25	U
106-93-4	Ethylene DiBromide	25	U
76-13-1	Freon 113	25	U
87-68-3	Hexachlorobutadiene	25	U
98-82-8	Isopropylbenzene	25	U
79-20-9	Methyl Acetate	25	U
108-87-2	Methylcyclohexane	25	U
75-09-2	Methylene Chloride	25	U
91-20-3	Naphthalene	25	U
135-98-8	Sec-Butylbenzene	25	U
100-42-5	Styrene	25	U
127-18-4	Tetrachloroethylene	25	U
108-88-3	Toluene	25	U
79-01-6	Trichloroethene	500	
75-69-4	Trichlorofluoromethane	25	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-014-2/3
Sample Volume :	.2	Lab File ID :	A62646.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	25
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	25	U
75-01-4	Vinyl Chloride	25	U
156-59-2	cis-1,2-Dichloroethene	340	
10061-01-5	cis-1,3-Dichloropropene	25	U
136777-61-2	m,p-Xylene	25	U
104-51-8	n-Butylbenzene	25	U
103-65-1	n-Propylbenzene	25	U
95-47-6	o-Xylene	25	U
98-06-6	tert-Butylbenzene	25	U
1634-04-4	tert-butyl methyl ether	25	U
156-60-5	trans-1,2-dichloroethene	150	
10061-02-6	trans-1,3-dichloropropene	25	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62646.D
Acq On : 27 Mar 2009 2:52 pm
Operator : SM
Sample : 903098-007
Misc : OUI-MW53P-0309,CH2M HILL,25X
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 31 10:58:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

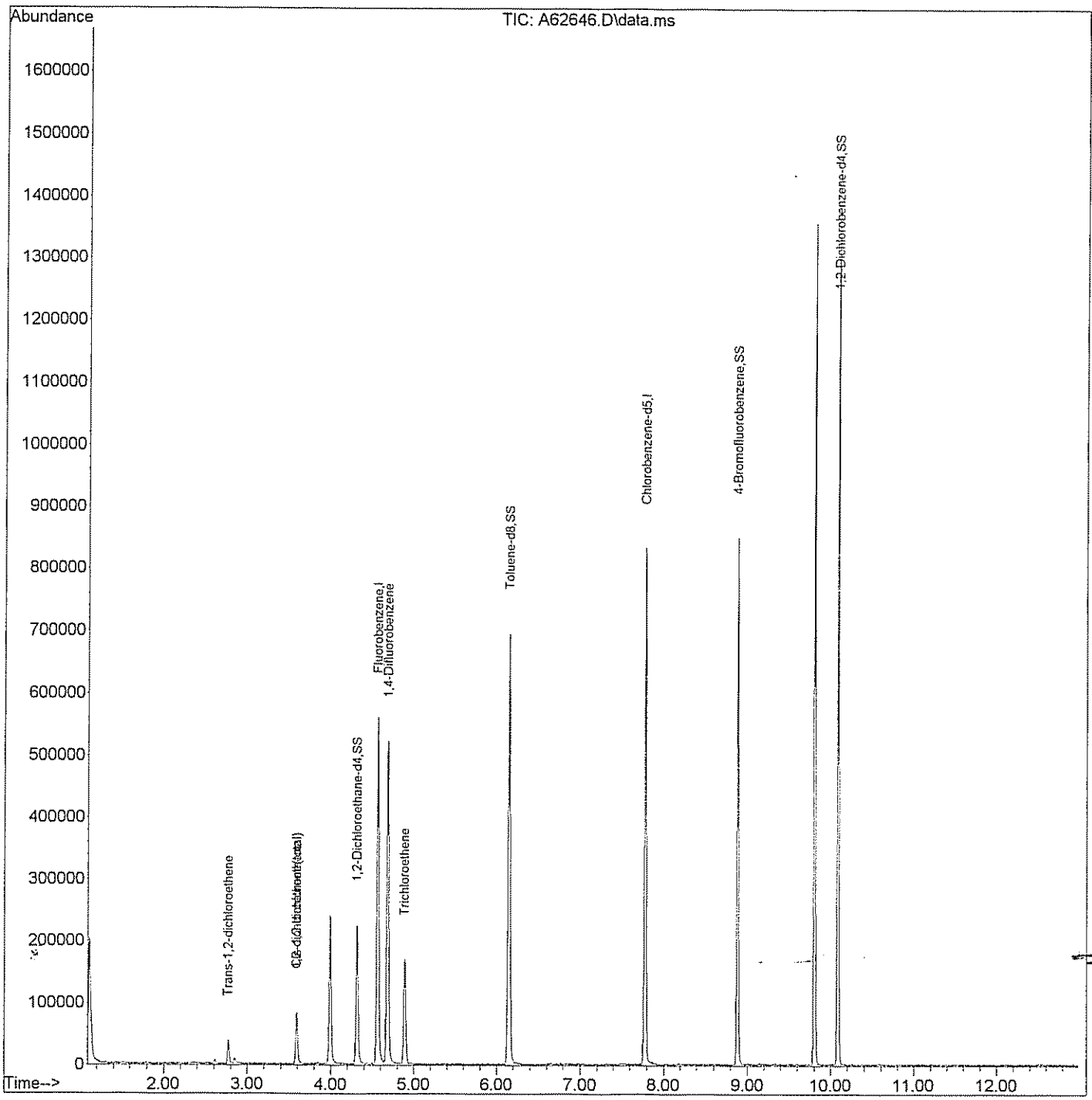
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	433551	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	396136	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	378812	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	120712	50.40	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.80%			
53) Toluene-d8	6.148	98	425955	48.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.90%			
75) 4-Bromofluorobenzene	8.881	95	179455	47.74	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.48%			
91) 1,2-Dichlorobenzene-d4	10.085	152	220629	53.80	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.60%			
Target Compounds						Qvalue
16) Trans-1,2-dichloroethene	2.772	96	10463	6.03	ug/L #	65
28) Cis-1,2-dichloroethene	3.591	96	28310	13.73	ug/L	86
29) 1,2-dichloroethene(total)	3.591	96	39390m	20.92	ug/L	
46) Trichloroethene	4.890	95	43633	19.93	ug/L	85

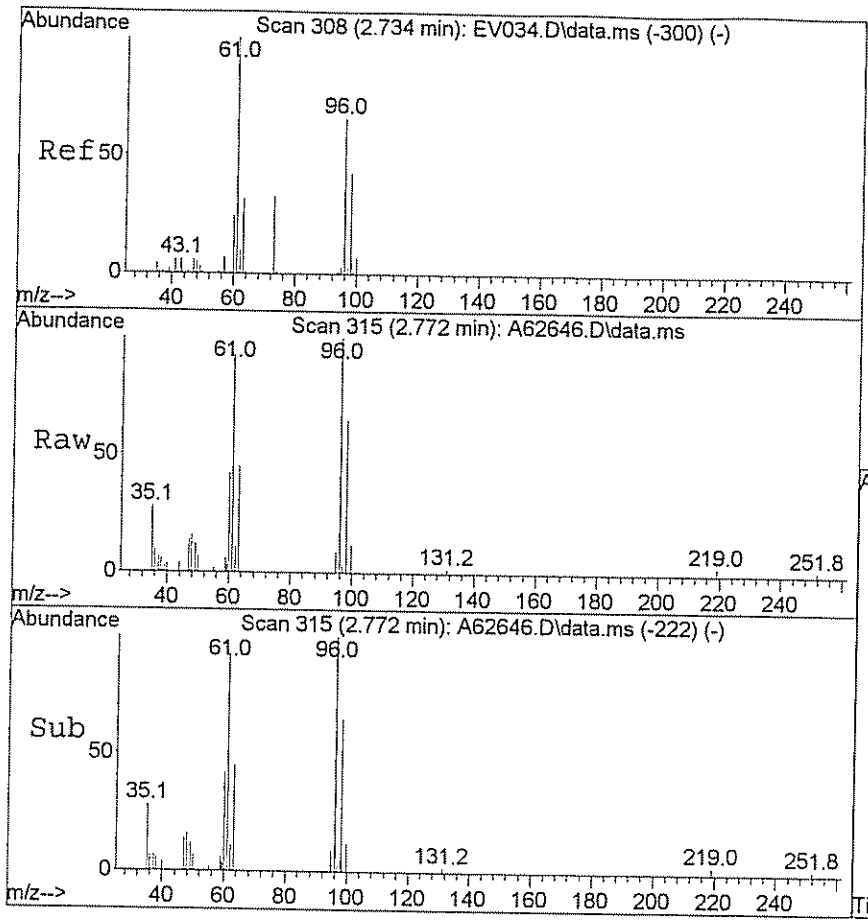
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62646.D
Acq On : 27 Mar 2009 2:52 pm
Operator : SM
Sample : 903098-007
Misc : OUI-MW53P-0309,CH2M HILL,25X
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 31 10:58:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

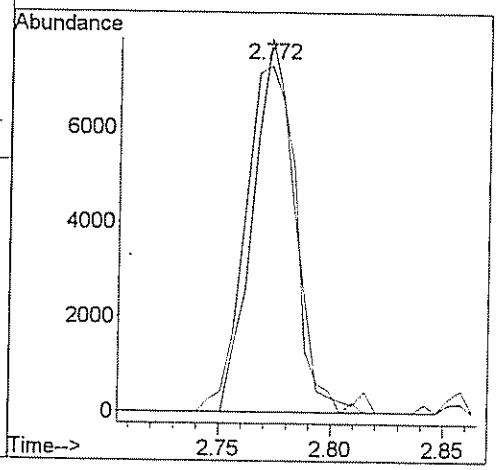


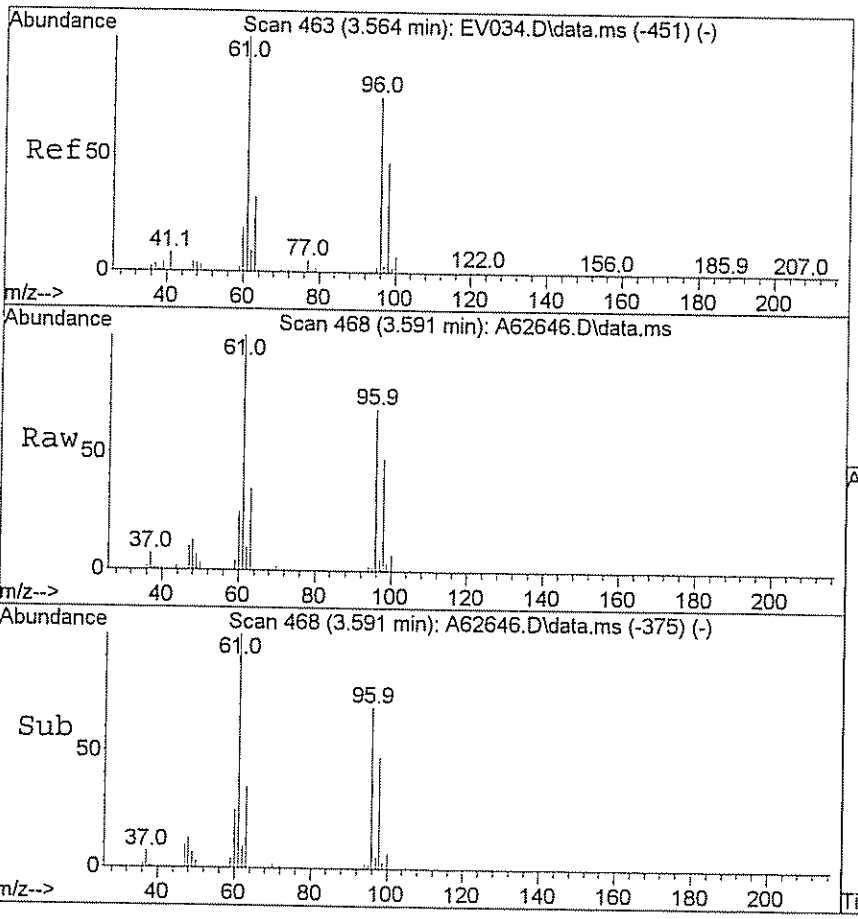


#16
Trans-1,2-dichloroethene
Concen: 6.03 ug/L
RT: 2.772 min Scan# 315
Delta R.T. -0.000 min
Lab File: A62646.D
Acq: 27 Mar 2009 2:52 pm

Tgt Ion: 96 Resp: 10463

Ion	Ratio	Lower	Upper
96	100		
61	109.2	124.0	186.0#

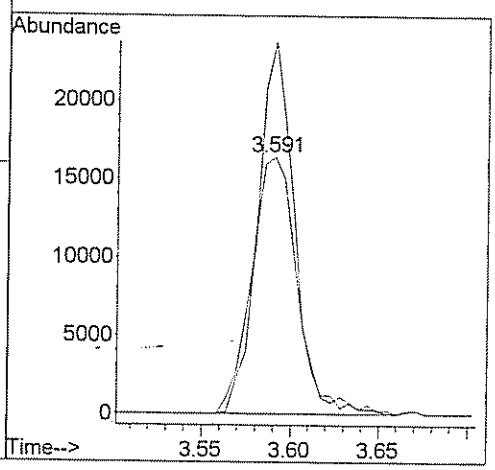


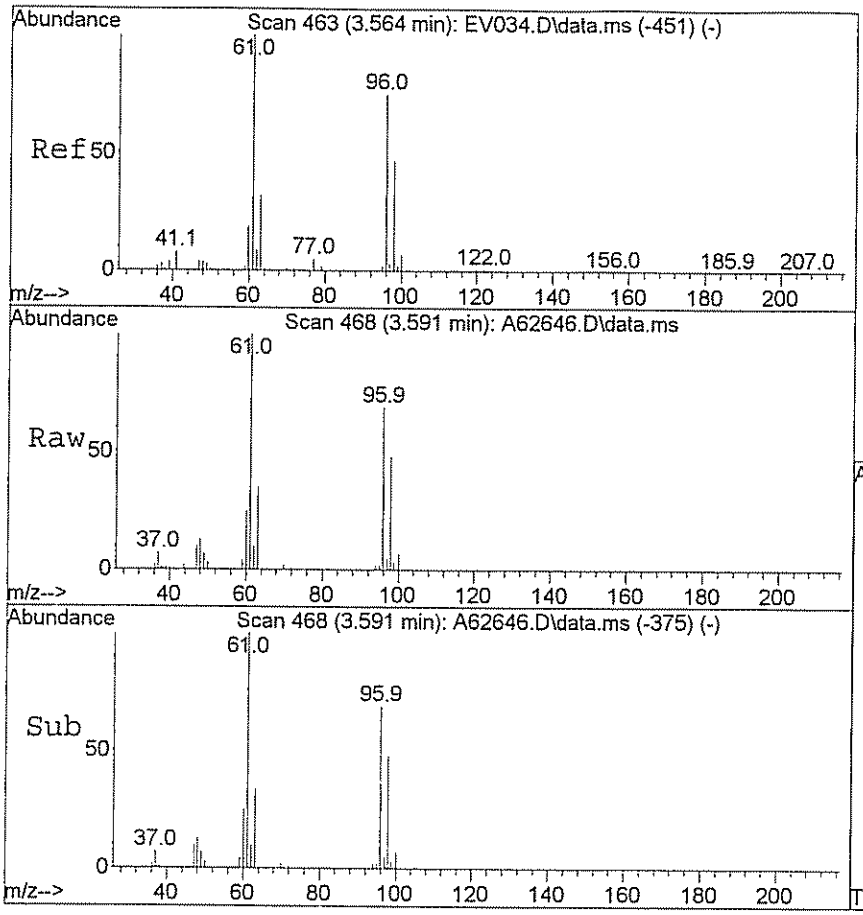


#28
Cis-1,2-dichloroethene
Concen: 13.73 ug/L
RT: 3.591 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62646.D
Acq: 27 Mar 2009 2:52 pm

Tgt Ion: 96 Resp: 28310

Ion	Ratio	Lower	Upper
96	100		
61	125.9	115.0	172.6

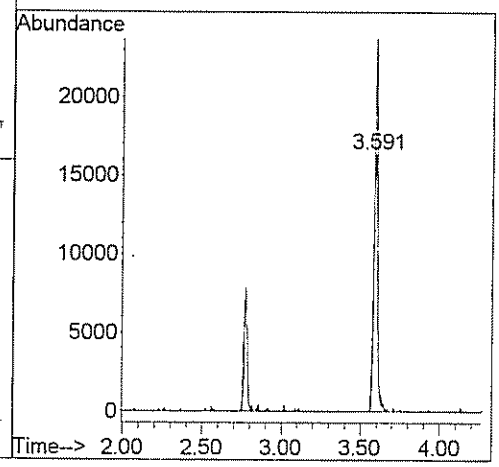


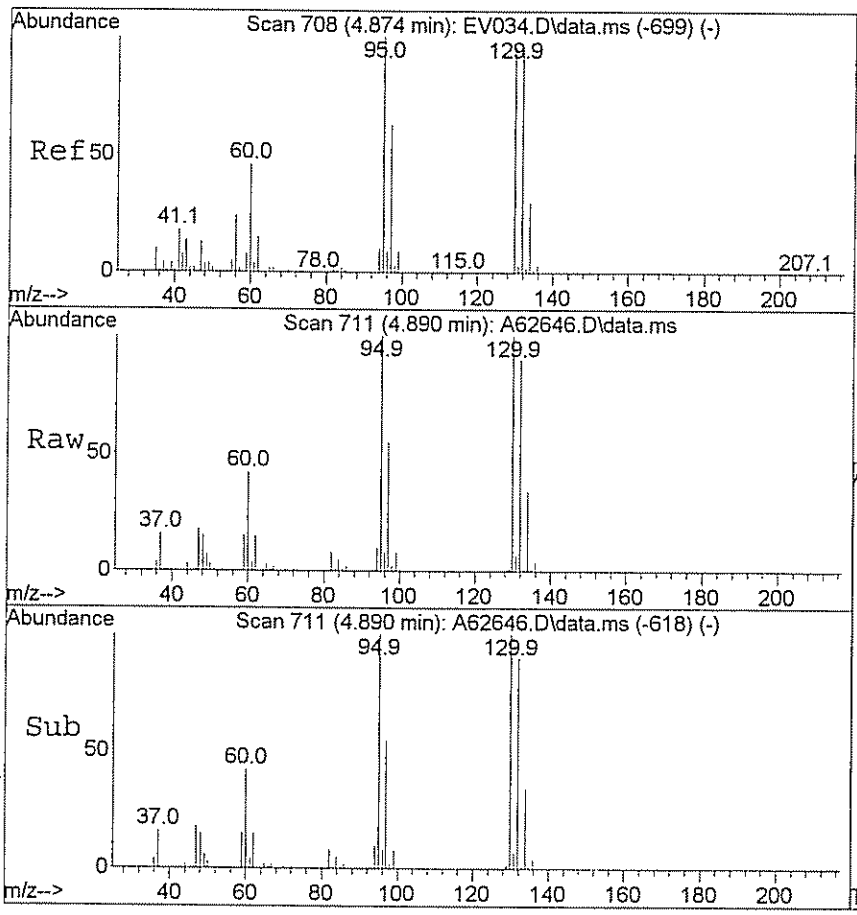


#29
1,2-dichloroethene(total)
Concen: 20.92 ug/L m
RT: 3.591 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62646.D
Acq: 27 Mar 2009 2:52 pm

Tgt Ion: 96 Resp: 39390

Ion	Ratio	Lower	Upper
96	100		
61	90.5	115.0	172.6#

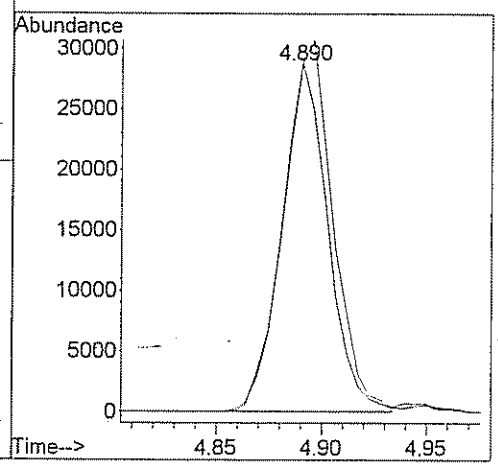




#46
Trichloroethene
Concen: 19.93 ug/L
RT: 4.890 min Scan# 711
Delta R.T. -0.000 min
Lab File: A62646.D
Acq: 27 Mar 2009 2:52 pm

Tgt Ion: 95 Resp: 43633

Ion	Ratio	Lower	Upper
95	100		
130	115.0	79.7	119.5



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-016-1/3
Sample Volume :	5	Lab File ID :	A62608.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-016-1/3
Sample Volume :	5	Lab File ID :	A62608.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-016-1/3
Sample Volume :	5	Lab File ID :	A62608.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62608.D
Acq On : 27 Mar 2009 12:17 am
Operator : SM
Sample : 903098-008
Misc : OUI-MW55-0309,CH2M HILL,WATER
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Mar 31 09:36:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

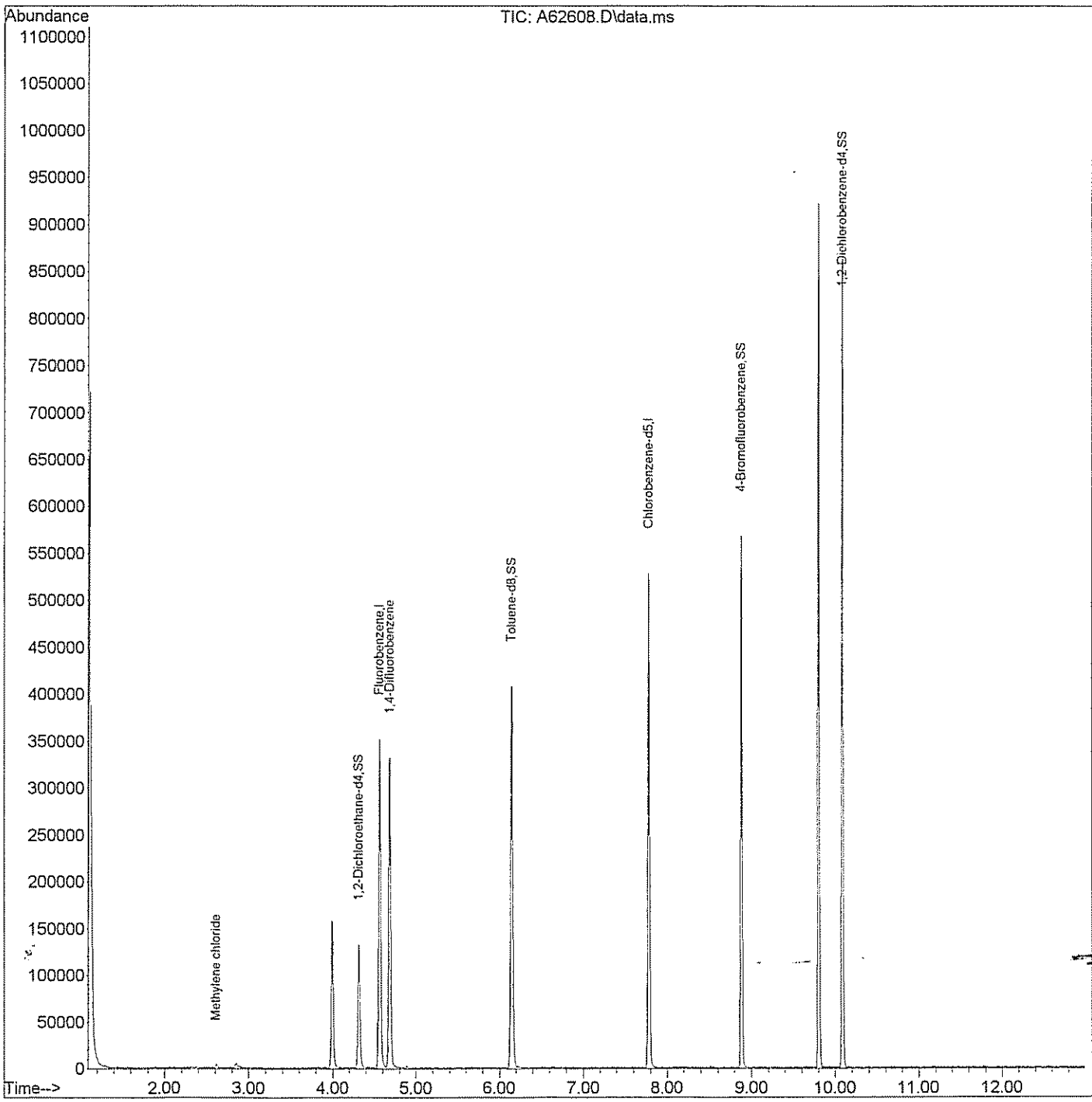
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	257102	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	243534	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	251037	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	70000	49.28	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.56%			
53) Toluene-d8	6.148	98	244048	45.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 90.30%			
75) 4-Bromofluorobenzene	8.881	95	113934	45.73	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 91.46%			
91) 1,2-Dichlorobenzene-d4	10.085	152	162555	59.81	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 119.62%			
Target Compounds						Qvalue
15) Methylene chloride	2.612	84	999	3.37	ug/L	100

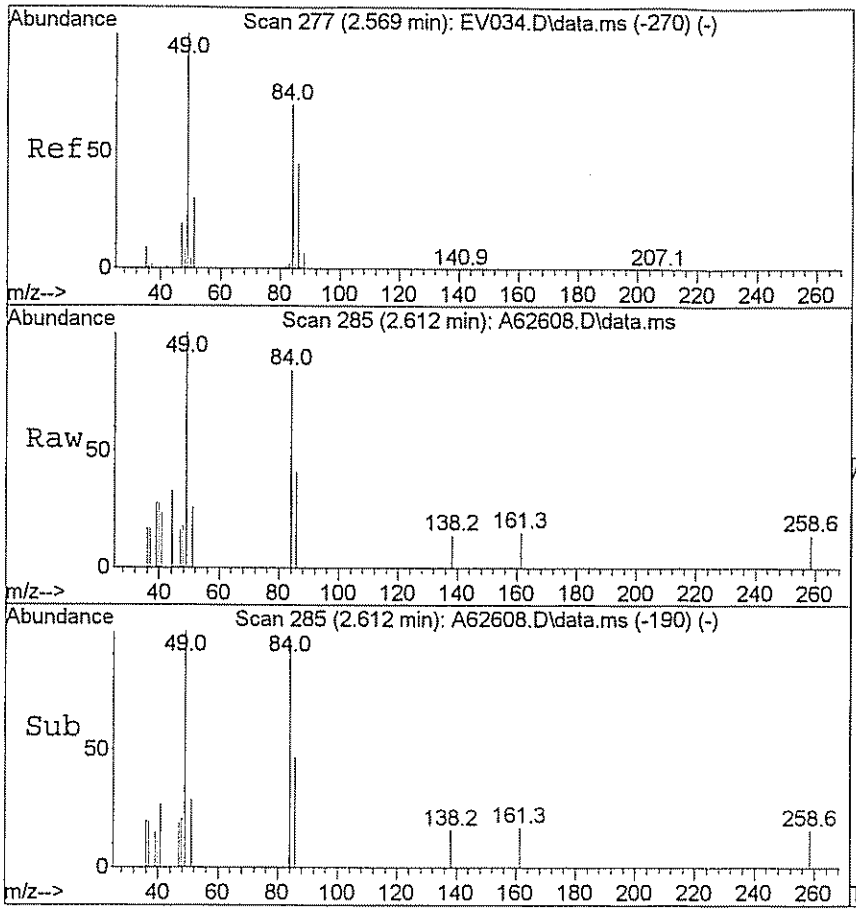
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62608.D
Acq On : 27 Mar 2009 12:17 am
Operator : SM
Sample : 903098-008
Misc : OUI-MW55-0309,CH2M HILL,WATER
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Mar 31 09:36:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

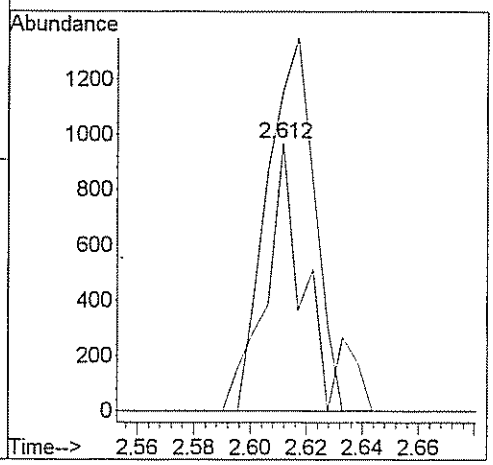




#15
Methylene chloride
Concen: 3.37 ug/L
RT: 2.612 min Scan# 285
Delta R.T. 0.006 min
Lab File: A62608.D
Acq: 27 Mar 2009 12:17 am

Tgt Ion: 84 Resp: 999

Ion	Ratio	Lower	Upper
84	100		
49	157.7	125.9	188.9



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-019-1/3
Sample Volume :	.1	Lab File ID :	A62610.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
563-58-6	1,1-Dichloropropene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
96-12-8	1,2-Dibromo-3-Chloropropane	100	U
95-50-1	1,2-Dichlorobenzene	50	U
107-06-2	1,2-Dichloroethane	50	U
78-87-5	1,2-Dichloropropane	50	U
108-67-8	1,3,5-trimethylbenzene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
142-28-9	1,3-Dichloropropane	50	U
106-46-7	1,4-Dichlorobenzene	50	U
594-20-7	2,2-Dichloropropane	50	U
78-93-3	2-Butanone	250	U
95-49-8	2-Chlorotoluene	50	U
591-78-6	2-Hexanone	250	U
106-43-4	4-Chlorotoluene	50	U
99-87-6	4-Isopropyltoluene	50	U
108-10-1	4-Methyl-2-Pentanone	250	U
67-64-1	Acetone	250	U
71-43-2	Benzene	50	U
108-86-1	Bromobenzene	50	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-019-1/3
Sample Volume :	.1	Lab File ID :	A62610.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	50	U
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
75-15-0	Carbon Disulfide	50	U
56-23-5	Carbon Tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
110-82-7	Cyclohexane	50	U
124-48-1	Dibromochloromethane	50	U
74-95-3	Dibromomethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
100-41-4	Ethylbenzene	50	U
106-93-4	Ethylene DiBromide	50	U
76-13-1	Freon 113	50	U
87-68-3	Hexachlorobutadiene	50	U
98-82-8	Isopropylbenzene	50	U
79-20-9	Methyl Acetate	50	U
108-87-2	Methylcyclohexane	50	U
75-09-2	Methylene Chloride	170	
91-20-3	Naphthalene	50	U
135-98-8	Sec-Butylbenzene	50	U
100-42-5	Styrene	50	U
127-18-4	Tetrachloroethylene	50	U
108-88-3	Toluene	50	U
79-01-6	Trichloroethene	2200	
75-69-4	Trichlorofluoromethane	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-019-1/3
Sample Volume :	.1	Lab File ID :	A62610.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	50	U
75-01-4	Vinyl Chloride	50	U
156-59-2	cis-1,2-Dichloroethene	1100	
10061-01-5	cis-1,3-Dichloropropene	50	U
136777-61-2	m,p-Xylene	50	U
104-51-8	n-Butylbenzene	50	U
103-65-1	n-Propylbenzene	50	U
95-47-6	o-Xylene	50	U
98-06-6	tert-Butylbenzene	50	U
1634-04-4	tert-butyl methyl ether	50	U
156-60-5	trans-1,2-dichloroethene	75	
10061-02-6	trans-1,3-dichloropropene	50	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62610.D
Acq On : 27 Mar 2009 12:57 am
Operator : SM
Sample : 903098-009
Misc : OUI-52GW62-0309,CH2M HILL,50X
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Mar 31 09:38:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

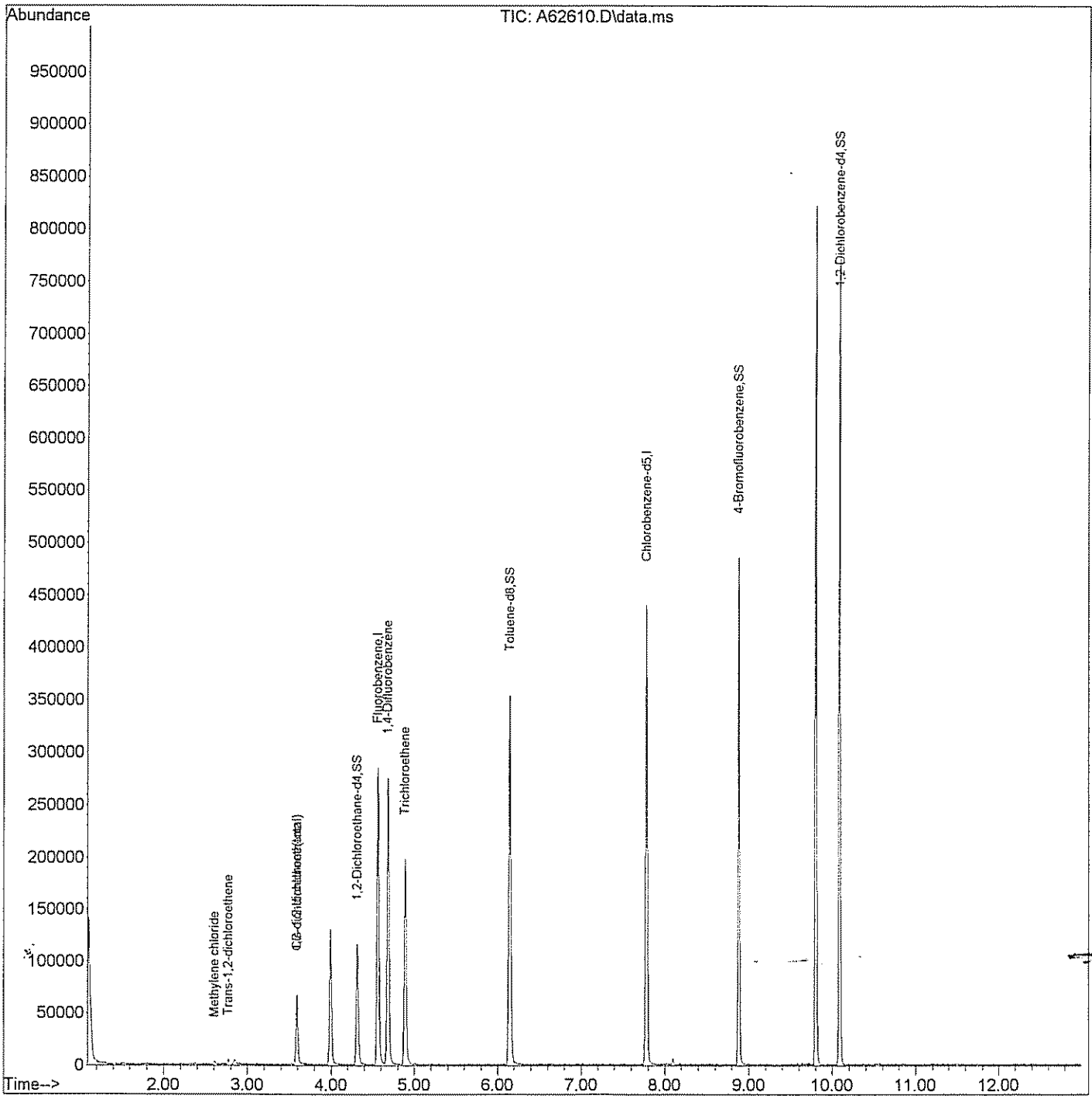
Compound			R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards								
1) Fluorobenzene			4.564	96	217379	50.00	ug/L	0.00
40) 1,4-Difluorobenzene			4.682	114	197100	50.00	ug/L	# 0.00
58) Chlorobenzene-d5			7.779	117	213789	50.00	ug/L	0.00
System Monitoring Compounds								
39) 1,2-Dichloroethane-d4			4.313	65	62039	51.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120		Recovery =	103.32%		
53) Toluene-d8			6.148	98	206521	47.21	ug/L	0.00
Spiked Amount	50.000	Range	85 - 120		Recovery =	94.42%		
75) 4-Bromofluorobenzene			8.881	95	100700	47.46	ug/L	0.00
Spiked Amount	50.000	Range	75 - 120		Recovery =	94.92%		
91) 1,2-Dichlorobenzene-d4			10.085	152	143047	61.81	ug/L	0.00
Spiked Amount	50.000	Range	64 - 132		Recovery =	123.62%		
Target Compounds								Qvalue
15) Methylene chloride			2.606	84	809	3.34	ug/L	93
16) Trans-1,2-dichloroethene			2.772	96	1301	1.50	ug/L	87
28) Cis-1,2-dichloroethene			3.590	96	22772	22.02	ug/L	77
29) 1,2-dichloroethene(total)			3.590	96	24904m	26.38	ug/L	
46) Trichloroethene			4.890	95	47036	43.18	ug/L #	72

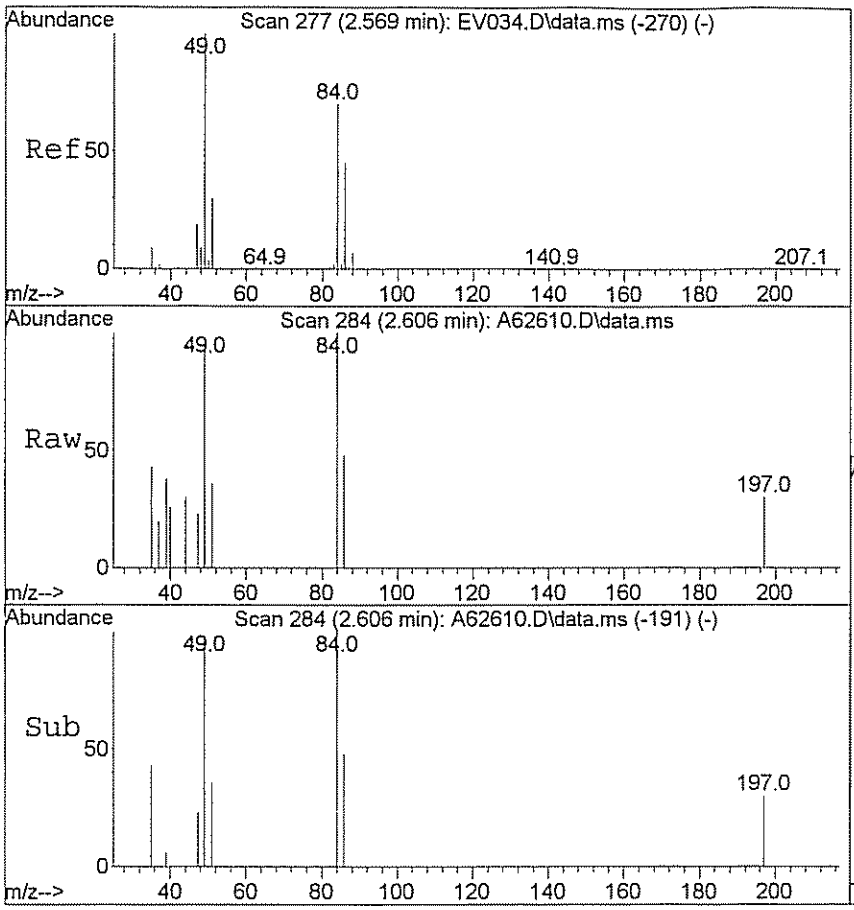
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62610.D
Acq On : 27 Mar 2009 12:57 am
Operator : SM
Sample : 903098-009
Misc : OUI-52GW62-0309,CH2M HILL,50X
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Mar 31 09:38:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

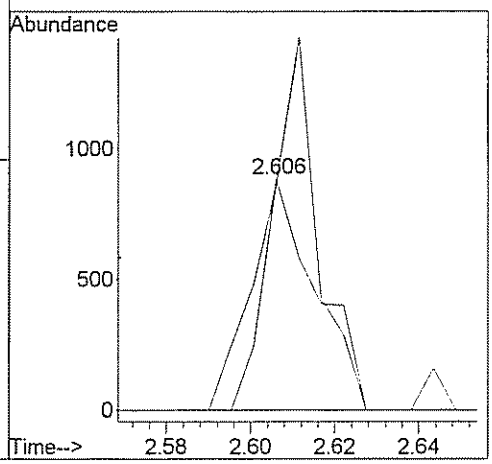


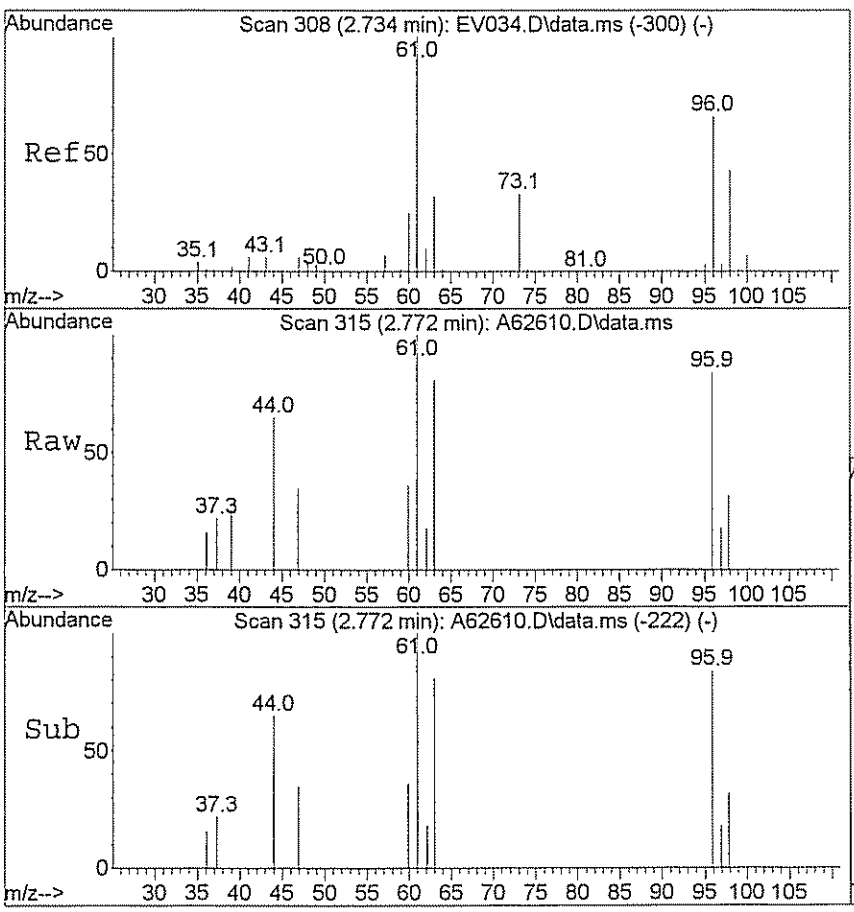


#15
Methylene chloride
Concen: 3.34 ug/L
RT: 2.606 min Scan# 284
Delta R.T. 0.000 min
Lab File: A62610.D
Acq: 27 Mar 2009 12:57 am

Tgt Ion: 84 Resp: 809

Ion	Ratio	Lower	Upper
84	100		
49	148.1	125.9	188.9

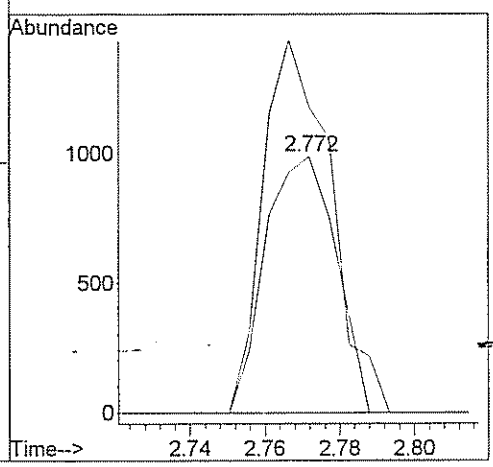


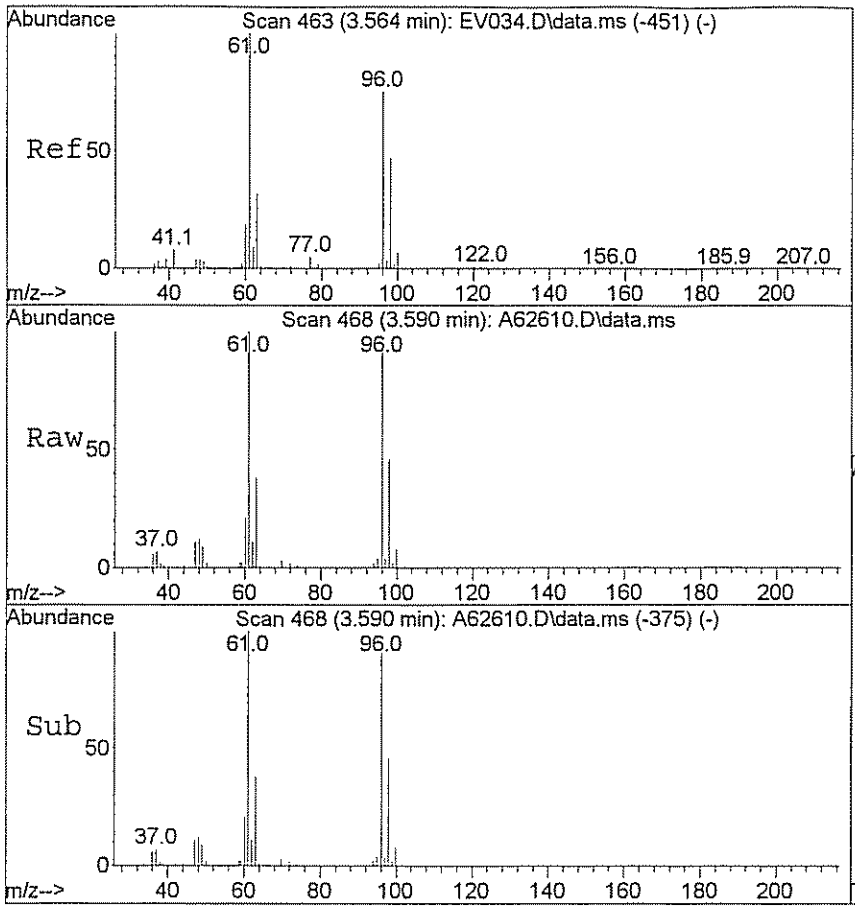


#16
Trans-1,2-dichloroethene
Concen: 1.50 ug/L
RT: 2.772 min Scan# 315
Delta R.T. -0.000 min
Lab File: A62610.D
Acq: 27 Mar 2009 12:57 am

Tgt Ion: 96 Resp: 1301

Ion	Ratio	Lower	Upper
96	100		
61	138.7	124.0	186.0

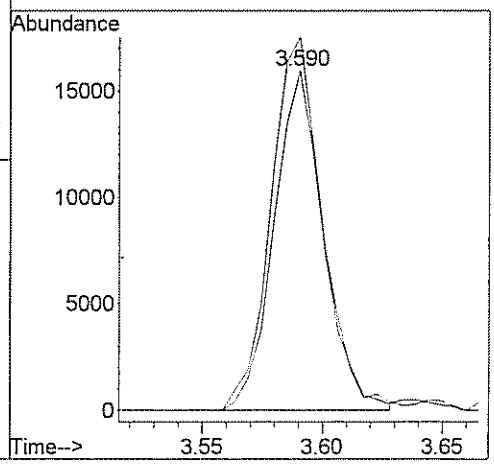


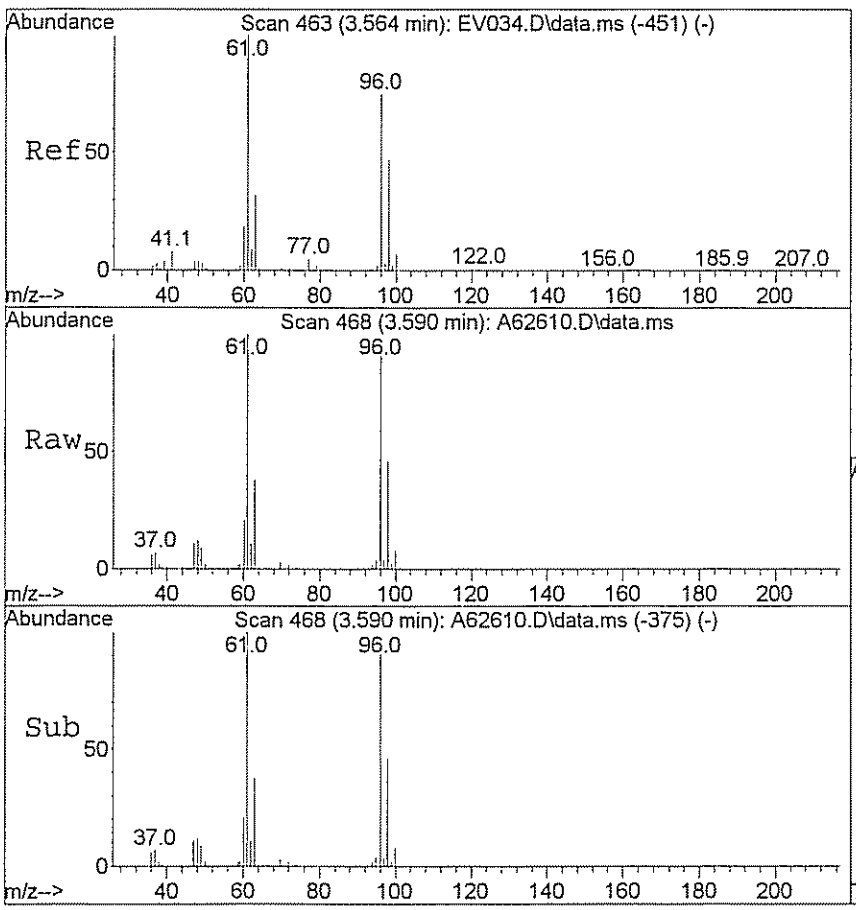


#28
Cis-1,2-dichloroethene
Concen: 22.02 ug/L
RT: 3.590 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62610.D
Acq: 27 Mar 2009 12:57 am

Tgt Ion: 96 Resp: 22772

Ion	Ratio	Lower	Upper
96	100		
61	115.1	115.0	172.6

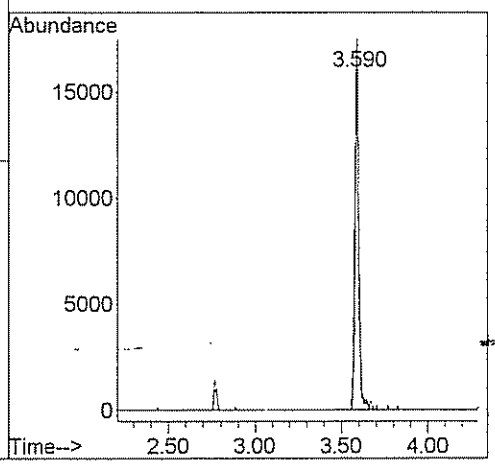


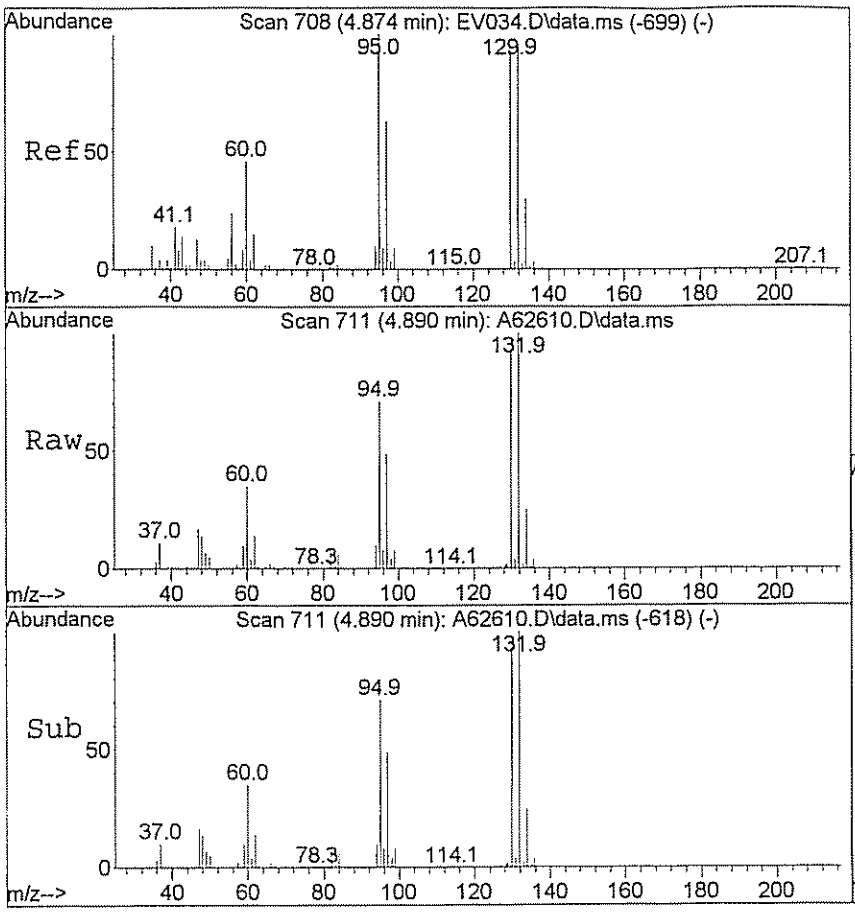


#29
1,2-dichloroethene(total)
Concen: 26.38 ug/L m
RT: 3.590 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62610.D
Acq: 27 Mar 2009 12:57 am

Tgt Ion: 96 Resp: 24904

Ion	Ratio	Lower	Upper
96	100		
61	105.2	115.0	172.6#

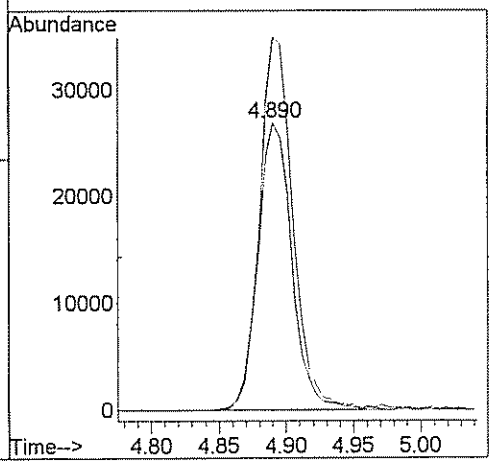




#46
Trichloroethene
Concen: 43.18 ug/L
RT: 4.890 min Scan# 711
Delta R.T. -0.000 min
Lab File: A62610.D
Acq: 27 Mar 2009 12:57 am

Tgt Ion: 95 Resp: 47036

Ion	Ratio	Lower	Upper
95	100		
130	127.5	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-031-1/3
Sample Volume :	5	Lab File ID :	A62612.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-031-1/3
Sample Volume :	5	Lab File ID :	A62612.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	5.5	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-031-1/3
Sample Volume :	5	Lab File ID :	A62612.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	2.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62612.D
Acq On : 27 Mar 2009 1:38 am
Operator : SM
Sample : 903098-010
Misc : OUI-52GW61-0309,CH2M HILL,WATER
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Mar 31 09:40:15 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

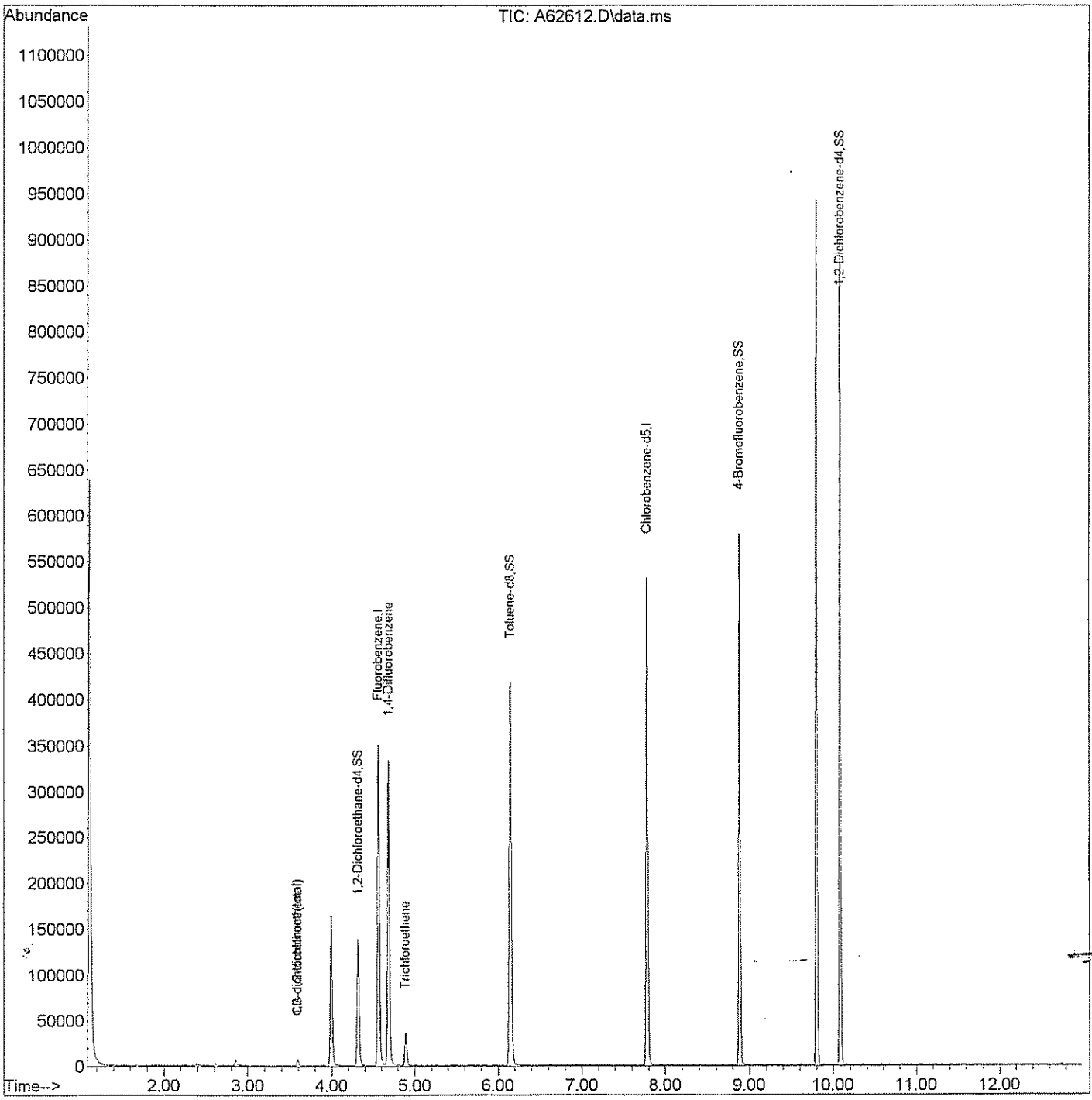
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	263414	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	248559	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	256166	50.00	ug/L	# 0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	73724	50.66	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.32%			
53) Toluene-d8	6.148	98	248084	44.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 89.94%			
75) 4-Bromofluorobenzene	8.881	95	117461	46.20	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 92.40%			
91) 1,2-Dichlorobenzene-d4	10.085	152	165662	59.74	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 119.48%			
Target Compounds						Qvalue
28) Cis-1,2-dichloroethene	3.591	96	2514	2.01	ug/L	82
29) 1,2-dichloroethene(total)	3.591	96	2807m	2.45	ug/L	
46) Trichloroethene	4.891	95	7544	5.49	ug/L #	49

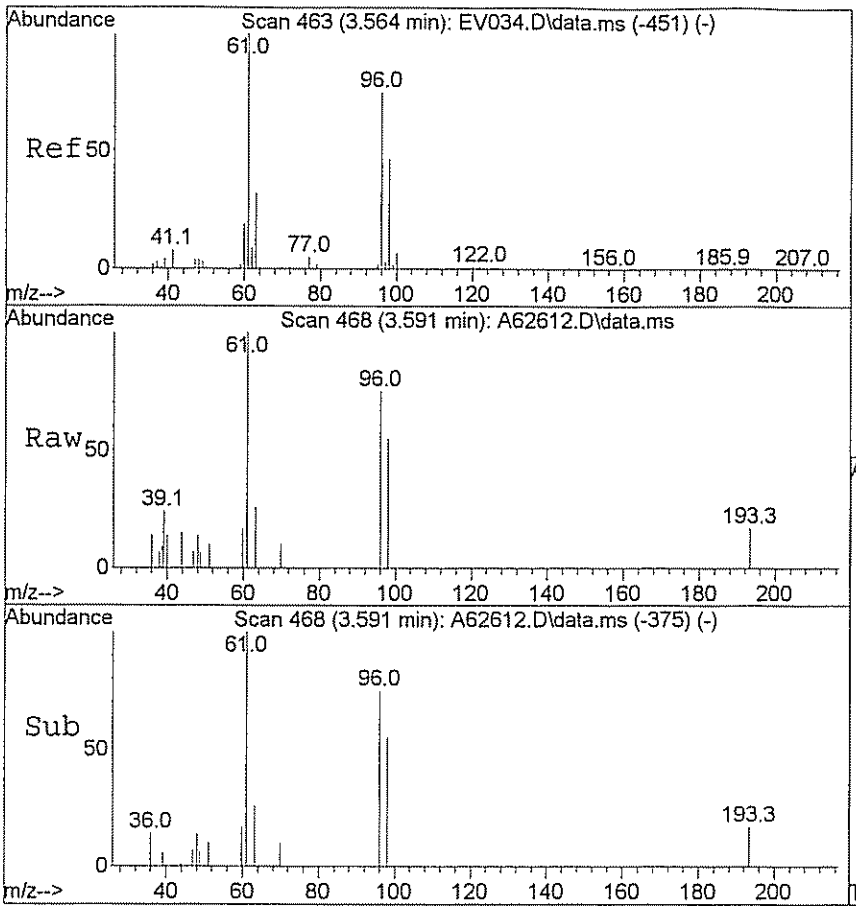
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62612.D
Acq On : 27 Mar 2009 1:38 am
Operator : SM
Sample : 903098-010
Misc : OUI-52GW61-0309,CH2M HILL,WATER
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Mar 31 09:40:15 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

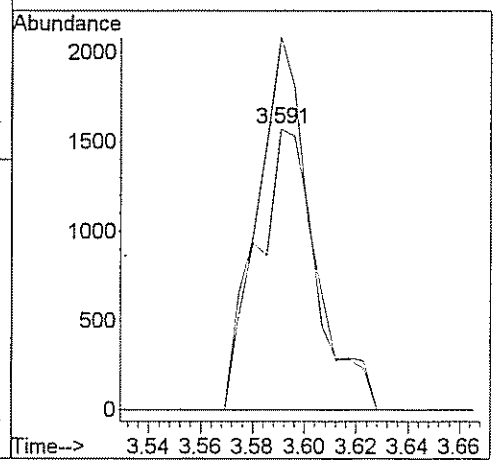


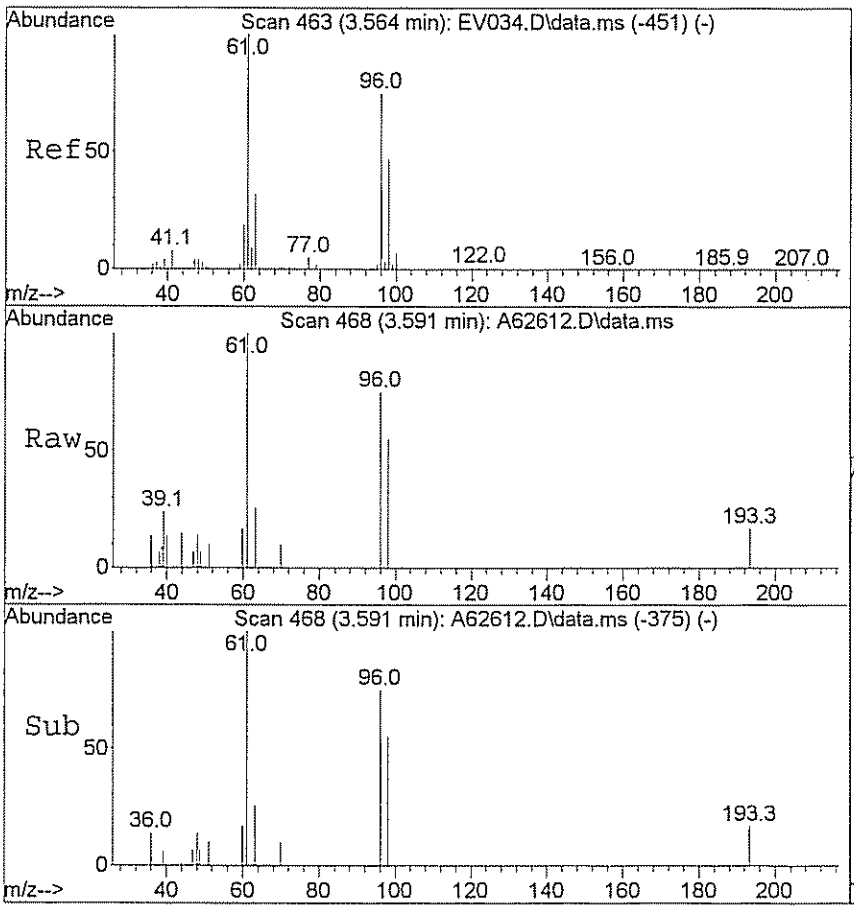


#28
Cis-1,2-dichloroethene
Concen: 2.01 ug/L
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62612.D
Acq: 27 Mar 2009 1:38 am

Tgt Ion: 96 Resp: 2514

Ion	Ratio	Lower	Upper
96	100		
61	121.9	115.0	172.6

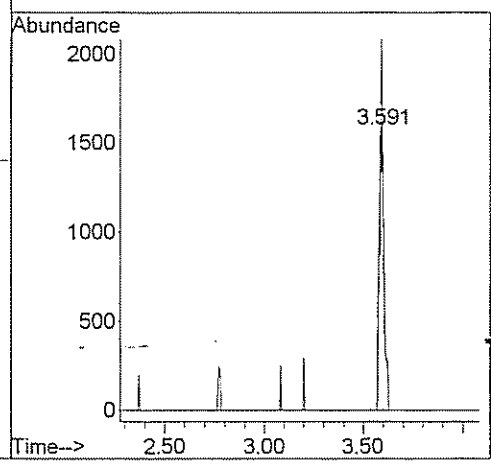


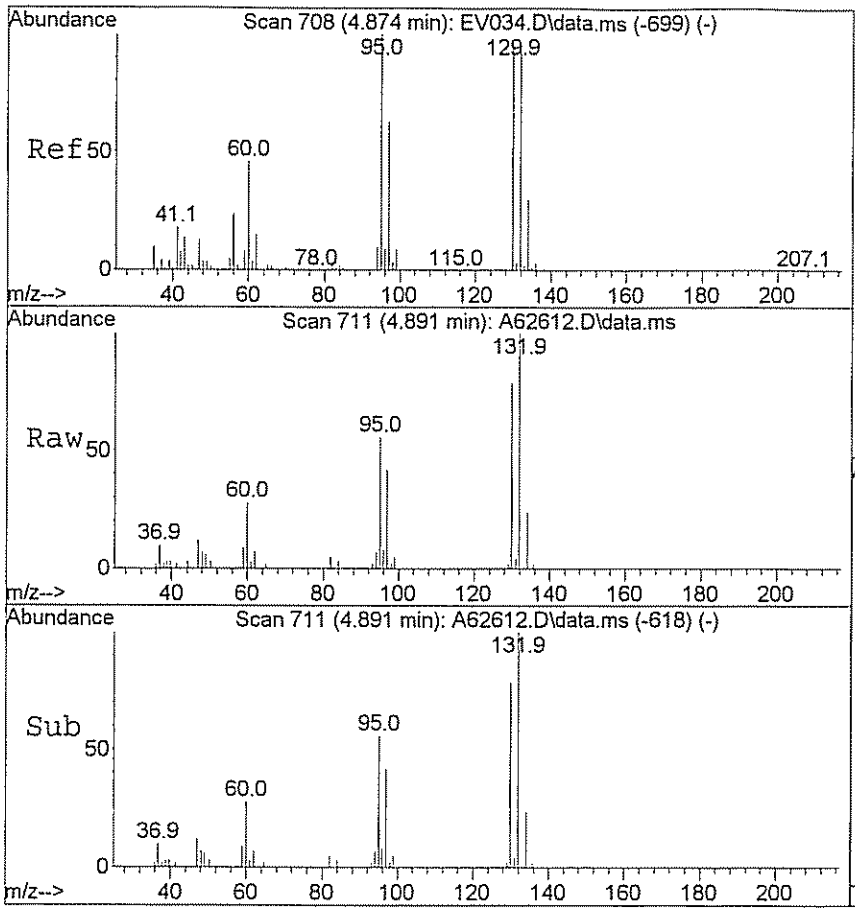


#29
1,2-dichloroethene(total)
Concen: 2.45 ug/L m
RT: 3.591 min Scan# 468
Delta R.T. -0.000 min
Lab File: A62612.D
Acq: 27 Mar 2009 1:38 am

Tgt Ion: 96 Resp: 2807

Ion	Ratio	Lower	Upper
96	100		
61	109.2	115.0	172.6#

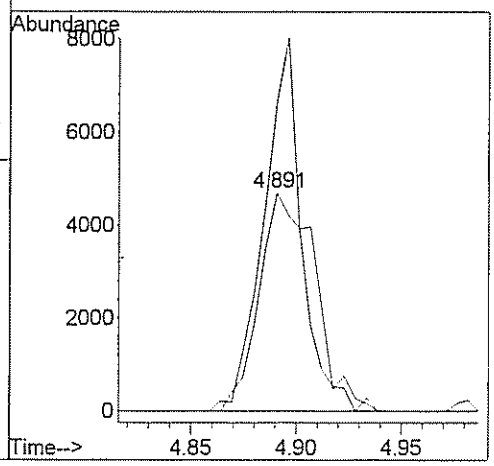




#46
Trichloroethene
Concen: 5.49 ug/L
RT: 4.891 min Scan# 711
Delta R.T. 0.000 min
Lab File: A62612.D
Acq: 27 Mar 2009 1:38 am

Tgt Ion: 95 Resp: 7544

Ion	Ratio	Lower	Upper
95	100		
130	150.0	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-034-1/3
Sample Volume :	5	Lab File ID :	A62614.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-034-1/3
Sample Volume :	5	Lab File ID :	A62614.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-034-1/3
Sample Volume :	5	Lab File ID :	A62614.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62614.D
Acq On : 27 Mar 2009 2:18 am
Operator : SM
Sample : 903098-011
Misc : OUI-N4GW07-0309,CH2M HILL,WATER
ALS Vial : 75 Sample Multiplier: 1

Quant Time: Mar 31 09:41:38 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	252090	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	233634	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	250923	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	69911	50.20	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.40%			
53) Toluene-d8	6.148	98	241746	46.62	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 93.24%			
75) 4-Bromofluorobenzene	8.881	95	115102	46.22	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 92.44%			
91) 1,2-Dichlorobenzene-d4	10.085	152	160259	58.99	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.98%			

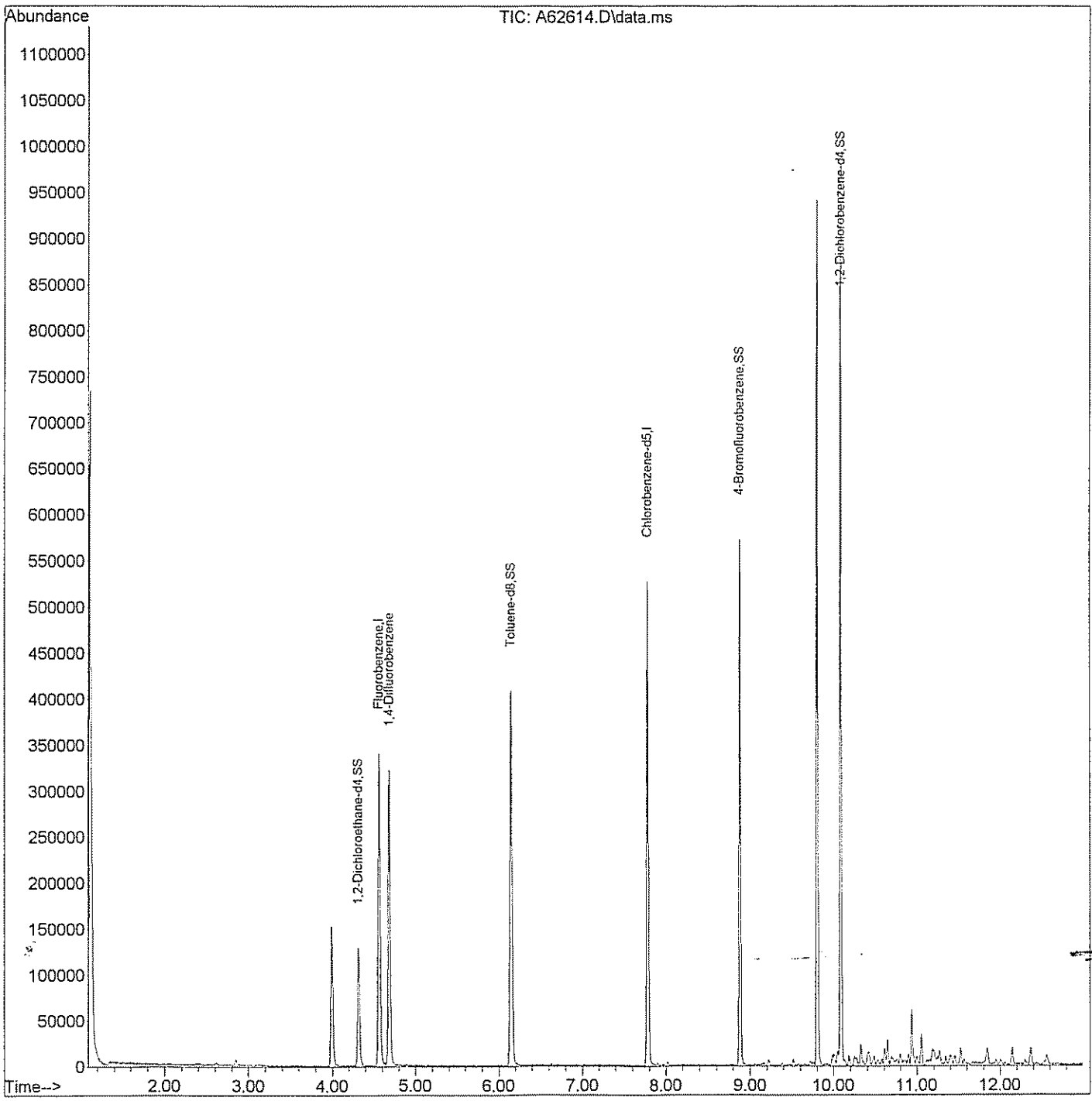
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62614.D
Acq On : 27 Mar 2009 2:18 am
Operator : SM
Sample : 903098-011
Misc : OUI-N4GW07-0309,CH2M HILL,WATER
ALS Vial : 75 Sample Multiplier: 1

Quant Time: Mar 31 09:41:38 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9
Sample Volume :	5	Lab File ID :	A62616.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9
Sample Volume :	5	Lab File ID :	A62616.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	2.7	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9
Sample Volume :	5	Lab File ID :	A62616.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.97	J
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62616.D
Acq On : 27 Mar 2009 2:59 am
Operator : SM
Sample : 903098-012
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Mar 31 09:43:16 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

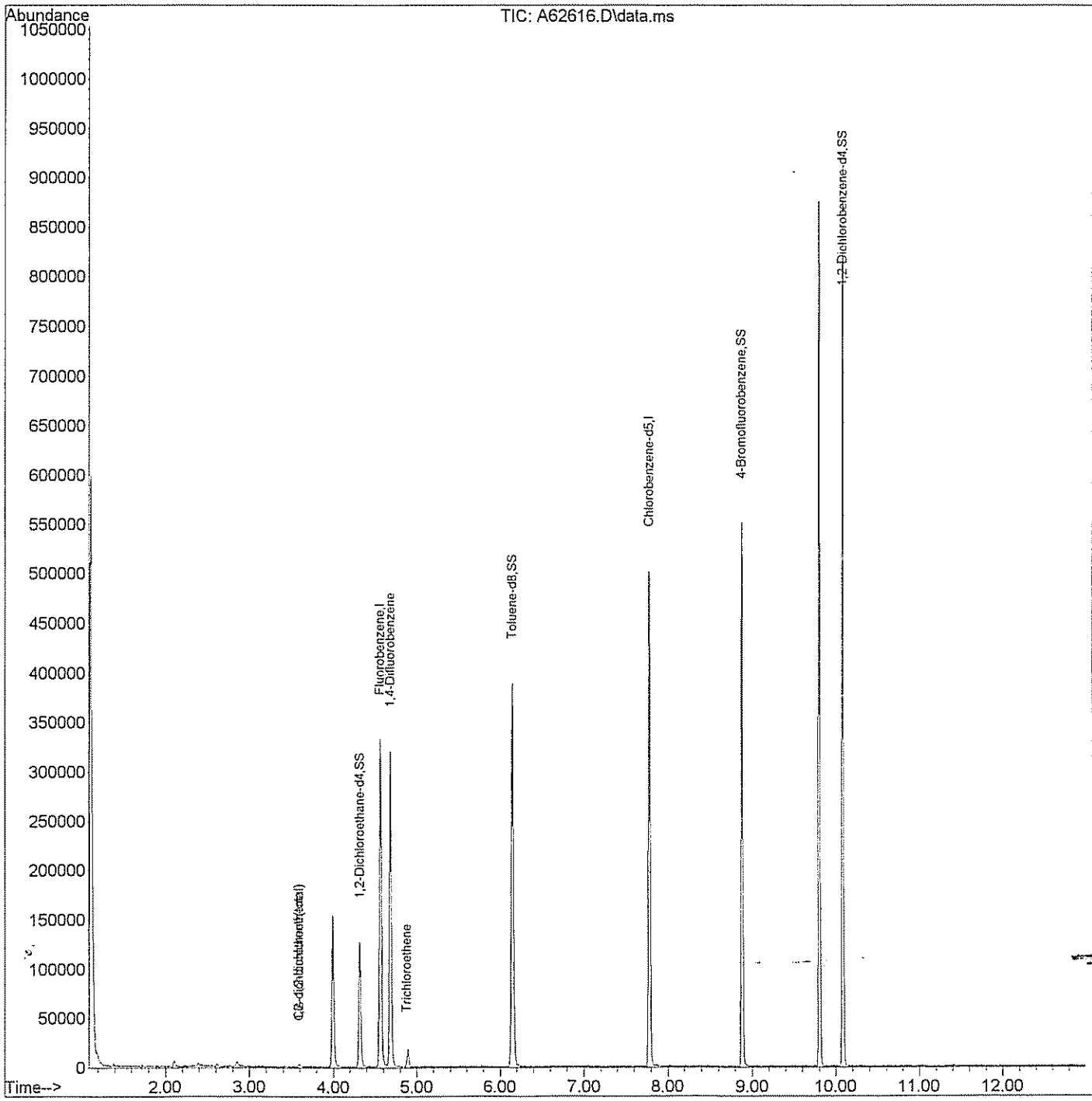
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	249391	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	229570	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	240402	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	68810	49.94	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.88%			
53) Toluene-d8	6.148	98	235289	46.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 92.36%			
75) 4-Bromofluorobenzene	8.881	95	112130	47.00	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.00%			
91) 1,2-Dichlorobenzene-d4	10.085	152	154727	59.45	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.90%			
Target Compounds						Qvalue
28) Cis-1,2-dichloroethene	3.590	96	1155	0.97	ug/L	89
29) 1,2-dichloroethene(total)	3.590	96	1637m	1.51	ug/L	
46) Trichloroethene	4.885	95	3481	2.74	ug/L #	62

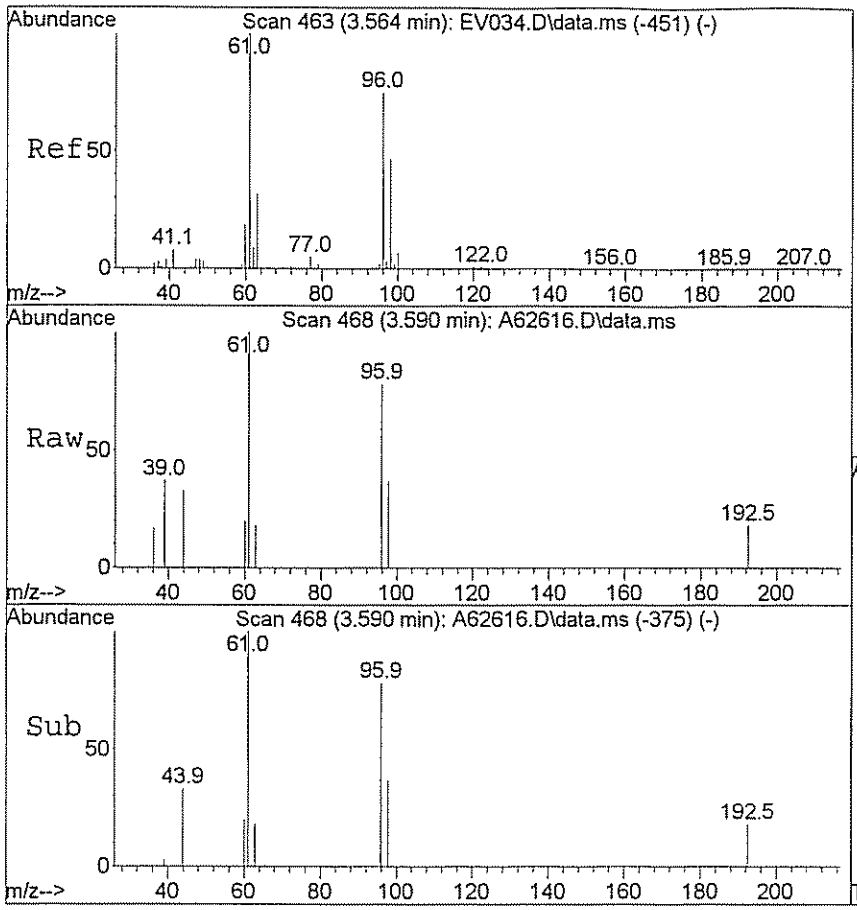
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62616.D
Acq On : 27 Mar 2009 2:59 am
Operator : SM
Sample : 903098-012
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Mar 31 09:43:16 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

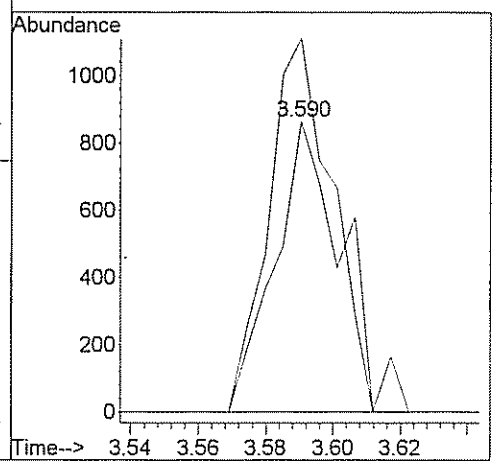


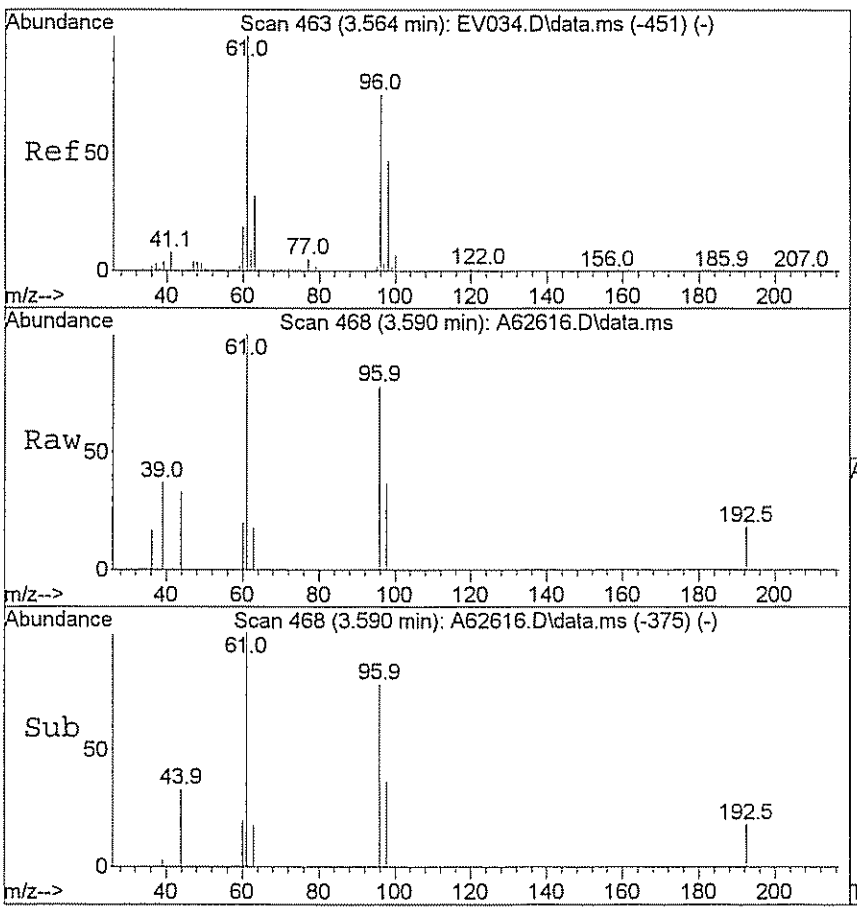


#28
Cis-1,2-dichloroethene
Concen: 0.97 ug/L
RT: 3.590 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62616.D
Acq: 27 Mar 2009 2:59 am

Tgt Ion: 96 Resp: 1155

Ion	Ratio	Lower	Upper
96	100		
61	130.6	115.0	172.6

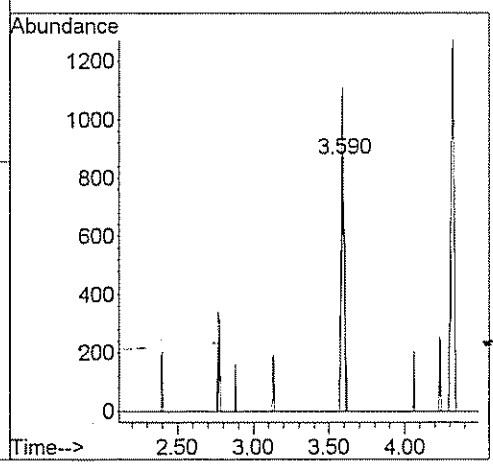


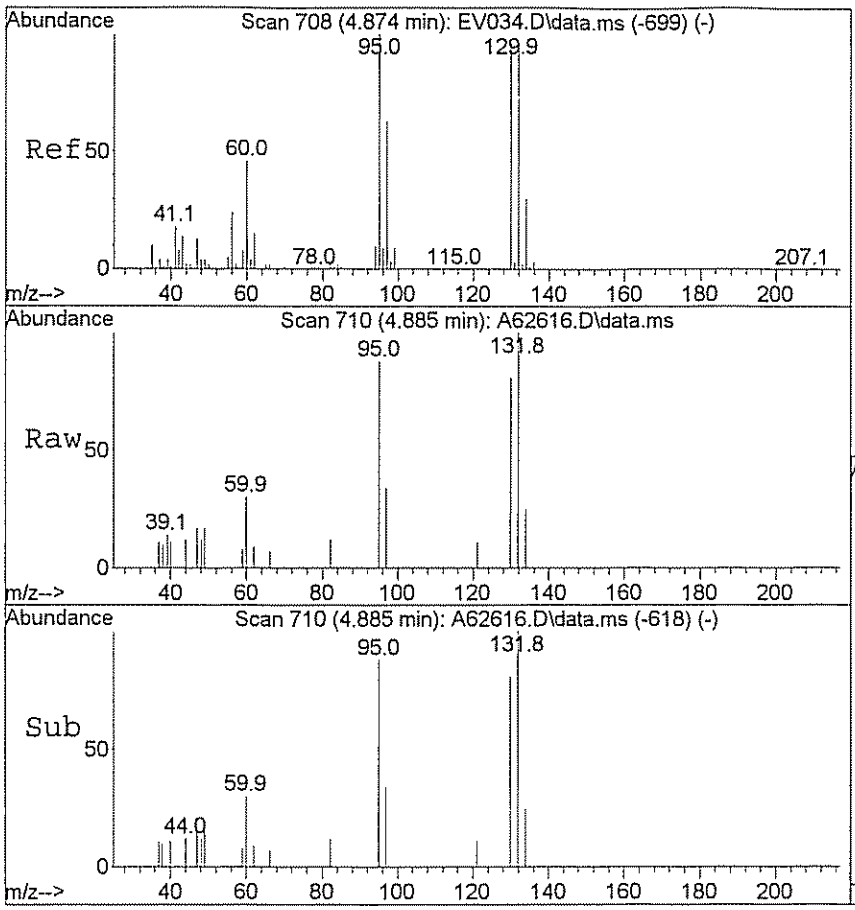


#29
1,2-dichloroethene(total)
Concen: 1.51 ug/L m
RT: 3.590 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62616.D
Acq: 27 Mar 2009 2:59 am

Tgt Ion: 96 Resp: 1637

Ion	Ratio	Lower	Upper
96	100		
61	92.2	115.0	172.6#

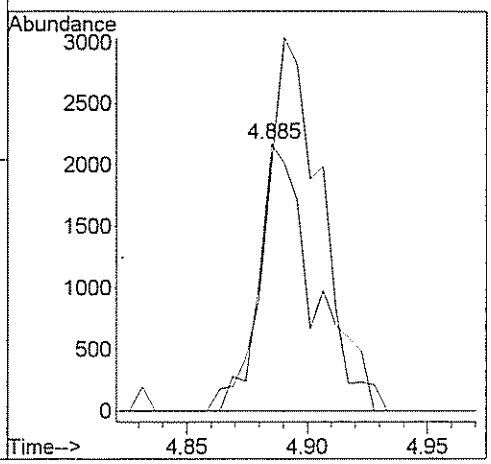




#46
Trichloroethene
Concen: 2.74 ug/L
RT: 4.885 min Scan# 710
Delta R.T. -0.006 min
Lab File: A62616.D
Acq: 27 Mar 2009 2:59 am

Tgt Ion: 95 Resp: 3481

Ion	Ratio	Lower	Upper
95	100		
130	137.4	79.7	119.5#



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB08-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-013-022-1/3
Sample Volume :	5	Lab File ID :	A62578.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB08-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-013-022-1/3
Sample Volume :	5	Lab File ID :	A62578.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.7	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB08-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-013-022-1/3
Sample Volume :	5	Lab File ID :	A62578.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62578.D
Acq On : 26 Mar 2009 1:55 pm
Operator : SM
Sample : 903098-013
Misc : OUI-TB08-0309,CH2M HILL,WATER
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 31 08:24:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

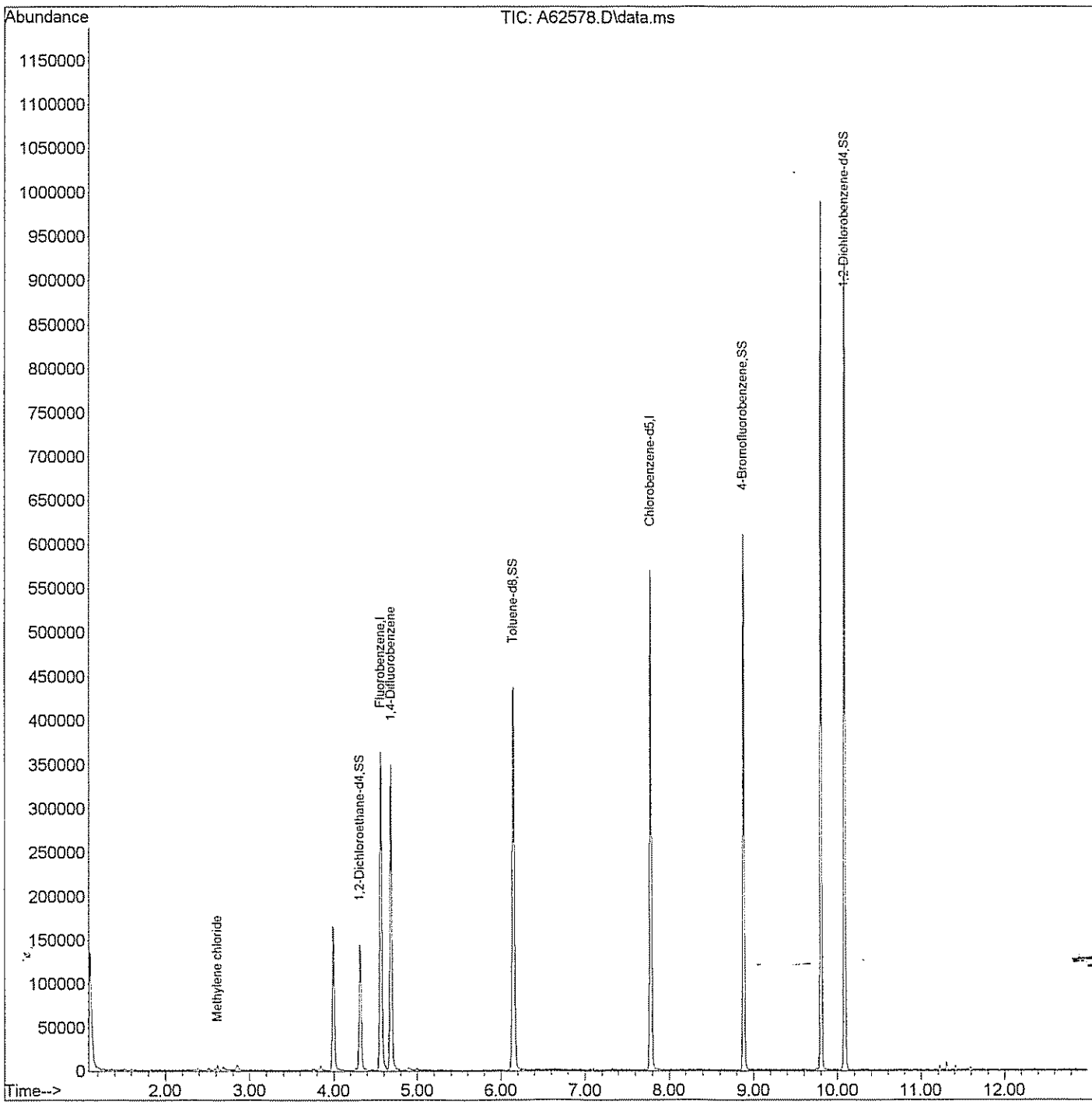
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.564	96	274495	50.00	ug/L	0.00
40) 1,4-Difluorobenzene		4.687	114	254791	50.00	ug/L	# 0.00
58) Chlorobenzene-d5		7.779	117	272156	50.00	ug/L	0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4		4.313	65	77177	50.89	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery =	101.78%		
53) Toluene-d8		6.148	98	259796	45.94	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery =	91.88%		
75) 4-Bromofluorobenzene		8.881	95	124800	46.21	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery =	92.42%		
91) 1,2-Dichlorobenzene-d4		10.085	152	169956	57.68	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery =	115.36%		
Target Compounds							Qvalue
15) Methylene chloride		2.617	84	1443	3.66	ug/L	93

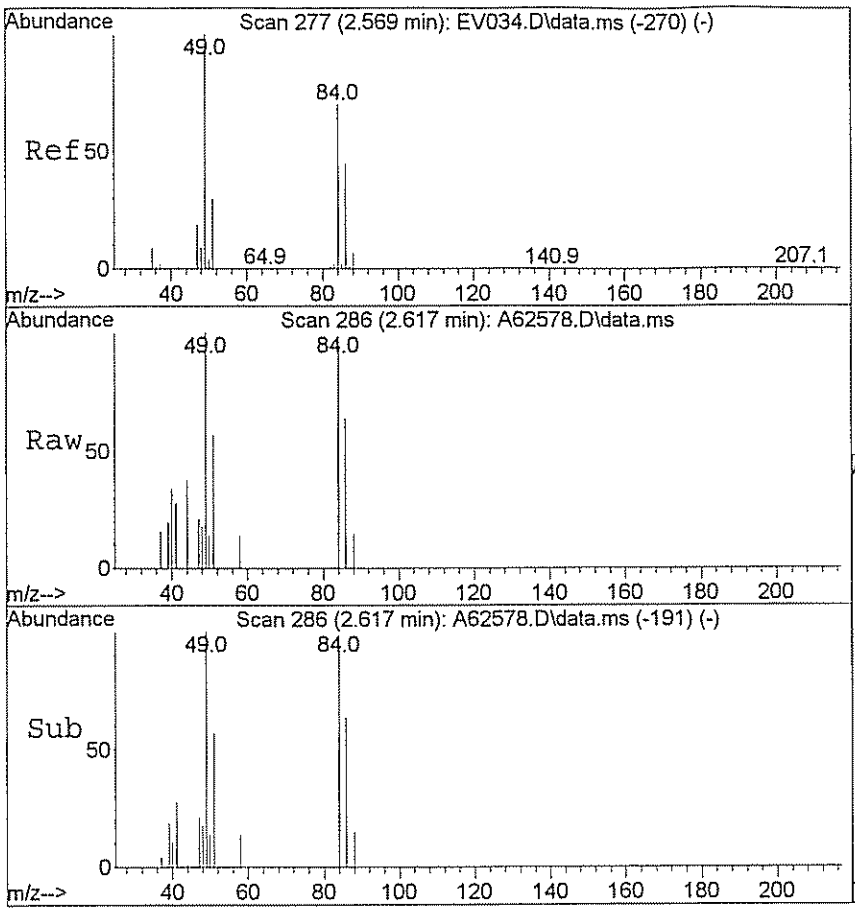
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62578.D
Acq On : 26 Mar 2009 1:55 pm
Operator : SM
Sample : 903098-013
Misc : OUI-TB08-0309,CH2M HILL,WATER
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Mar 31 08:24:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

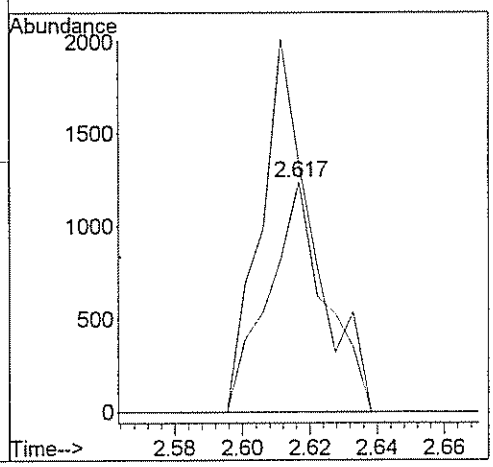




#15
Methylene chloride
Concen: 3.66 ug/L
RT: 2.617 min Scan# 286
Delta R.T. 0.011 min
Lab File: A62578.D
Acq: 26 Mar 2009 1:55 pm

Tgt Ion: 84 Resp: 1443

Ion	Ratio	Lower	Upper
84	100		
49	148.2	125.9	188.9



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-014-025-1/3
Sample Volume :	5	Lab File ID :	A62580.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-014-025-1/3
Sample Volume :	5	Lab File ID :	A62580.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.8	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-014-025-1/3
Sample Volume :	5	Lab File ID :	A62580.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62580.D
Acq On : 26 Mar 2009 2:47 pm
Operator : SM
Sample : 903098-014
Misc : OUI-TB09-0309,CH2M HILL,WATER
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 31 08:23:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

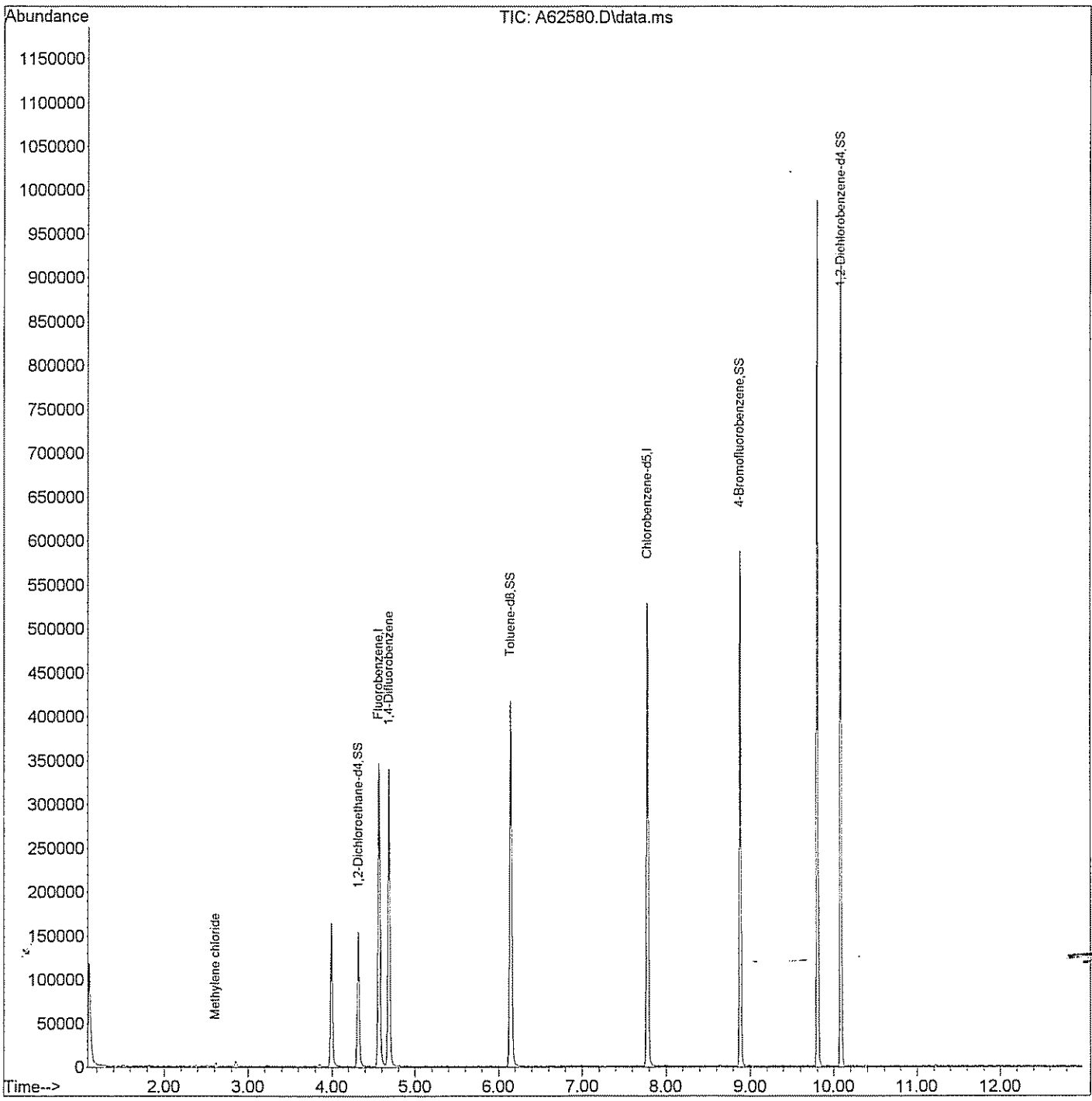
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.564	96	269403	50.00	ug/L	0.00
40) 1,4-Difluorobenzene		4.687	114	248779	50.00	ug/L	# 0.00
58) Chlorobenzene-d5		7.779	117	266301	50.00	ug/L	0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4		4.318	65	73199	49.18	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery =	98.36%		
53) Toluene-d8		6.148	98	251072	45.47	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery =	90.94%		
75) 4-Bromofluorobenzene		8.881	95	123741	46.82	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery =	93.64%		
91) 1,2-Dichlorobenzene-d4		10.085	152	169463	58.78	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery =	117.56%		
Target Compounds							Qvalue
15) Methylene chloride		2.611	84	1569	3.78	ug/L	100

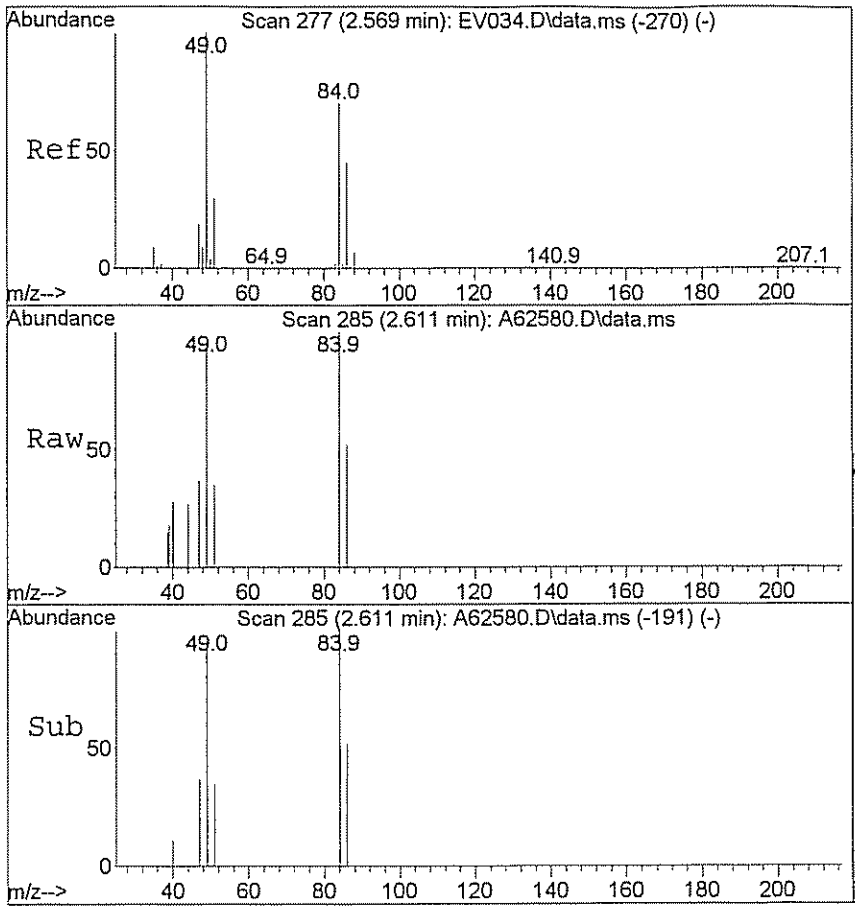
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62580.D
Acq On : 26 Mar 2009 2:47 pm
Operator : SM
Sample : 903098-014
Misc : OUI-TB09-0309,CH2M HILL,WATER
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 31 08:23:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

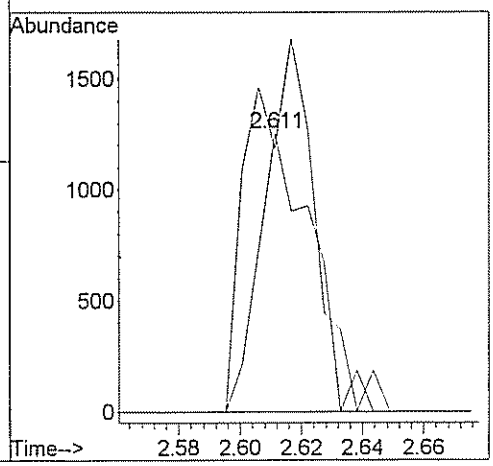




#15
Methylene chloride
Concen: 3.78 ug/L
RT: 2.611 min Scan# 285
Delta R.T. 0.005 min
Lab File: A62580.D
Acq: 26 Mar 2009 2:47 pm

Tgt Ion: 84 Resp: 1569

Ion	Ratio	Lower	Upper
84	100		
49	157.4	125.9	188.9



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-015-028-1/3
Sample Volume :	5	Lab File ID :	A62582.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-015-028-1/3
Sample Volume :	5	Lab File ID :	A62582.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-015-028-1/3
Sample Volume :	5	Lab File ID :	A62582.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62582.D
Acq On : 26 Mar 2009 3:28 pm
Operator : SM
Sample : 903098-015
Misc : OUI-TB10-0309,CH2M HILL,WATER
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 31 08:22:31 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

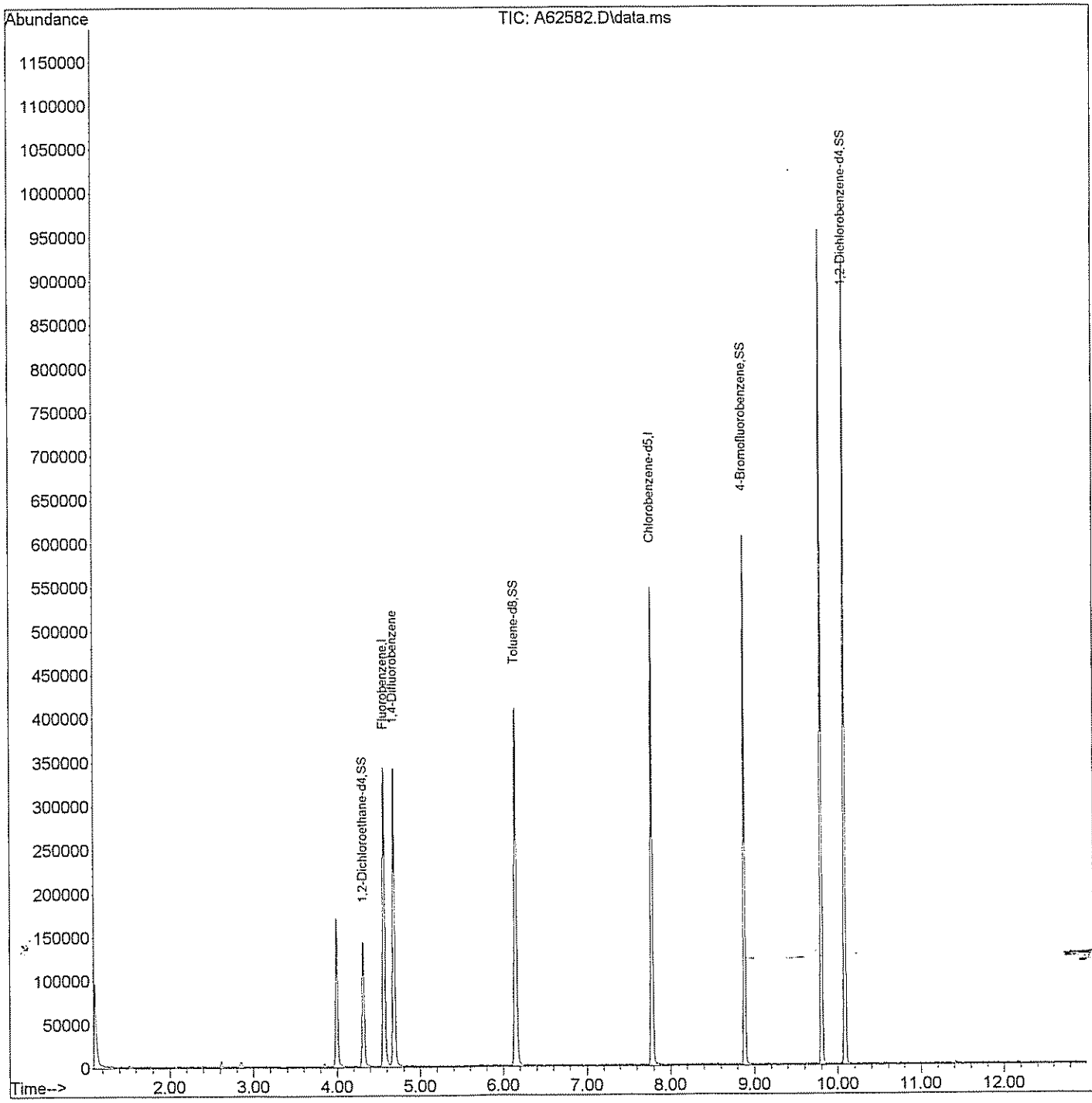
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.569	96	268912	50.00	ug/L	0.00
40) 1,4-Difluorobenzene		4.687	114	249772	50.00	ug/L	# 0.00
58) Chlorobenzene-d5		7.779	117	269939	50.00	ug/L	0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4		4.318	65	75640	50.91	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery =	101.82%		
53) Toluene-d8		6.148	98	252326	45.51	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery =	91.02%		
75) 4-Bromofluorobenzene		8.881	95	120970	45.16	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery =	90.32%		
91) 1,2-Dichlorobenzene-d4		10.085	152	167696	57.38	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery =	114.76%		
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62582.D
Acq On : 26 Mar 2009 3:28 pm
Operator : SM
Sample : 903098-015
Misc : OUI-TB10-0309,CH2M HILL,WATER
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 31 08:22:31 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009
Response Via : Initial Calibration

Calibration Files
1 =A62208.D 5 =A62210.D 20 =A62212.D 50 =A62214.D 100 =A62216.D
200 =A62220.D

		Compound	1	5	20	50	100	200	Avg	%R SD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluo...	0.120	0.111	0.119	0.086	0.118	0.123	0.113	12.08
3)		Chloromethane	0.130	0.128	0.142	0.106	0.203		0.142	25.94
4)		Vinyl chloride	0.134	0.140	0.199	0.167	0.224	0.235	0.183	~~23.46~~ m2=0.99
5)		Bromomethane	0.070	0.054	0.062	0.055	0.080		0.064	17.43
6)		Chloroethane	0.167	0.122	0.140	0.117	0.143	0.163	0.142	14.33
7)		Trichlorofluor...	0.169	0.246	0.270	0.217	0.296		0.239	20.54
8)		Ethyl Ether	0.184	0.185	0.175	0.149	0.191	0.230	0.186	14.22
9)		Freon 113	0.186	0.161	0.176	0.130	0.186	0.179	0.170	12.63
10)		Acrolein		0.055	0.035	0.030	0.038	0.058	0.043	~~28.85~~ m2=0.99
11)		Tert-Butyl alc...	0.026	0.015	0.013	0.012	0.015	0.037	0.020	~~50.87~~ m2=0.98
12)		1,1-Dichloroet...	0.203	0.187	0.176	0.140	0.189	0.208	0.184	13.36
13)		Iodomethane	0.081	0.109	0.177	0.181	0.257	0.182	0.164	37.82
14)		Acetonitrile	0.068	0.068	0.088	0.088	0.133	0.131	0.096	~~30.66~~ m2=0.99
15)		Methylene chlo...	0.408	0.270	0.218	0.182	0.225	0.236	0.257	~~30.95~~ m2=0.99
16)		Trans-1,2-dich...	0.232	0.181	0.191	0.166	0.217	0.212	0.200	12.32
17)		Isopropyl ether	0.850		0.767	0.665	0.845	0.895	0.805	11.26
18)		1,1-Dichloroet...	0.342	0.335	0.343	0.313	0.402	0.401	0.356	10.34
19)		Acetone	0.172	0.075	0.062	0.056	0.068	0.117	0.092	~~48.84~~ m2=0.99
20)		Methyl Acetate	0.271	0.158	0.133	0.151	0.158	0.384	0.209	~~47.13~~ m2=0.99
21)		MTBE	0.578	0.576	0.560	0.483	0.627	0.649	0.579	10.01
22)		Carbon disulfide	1.523	0.763	0.587	0.470	0.611	0.629	0.764	~~50.20~~ m2=0.97
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile	0.103	0.070	0.061	0.054	0.067	0.097	0.075	~~26.82~~ m2=0.99
25)		Chloroprene	0.379	0.349		0.270	0.372	0.333	0.341	12.75
26)	T	n-Heptane	0.233	0.164	0.181	0.154	0.163	0.148	0.174	17.86
27)		2,2-Dichloropr...	0.302	0.253	0.292	0.265	0.324	0.309	0.291	9.30
28)		Cis-1,2-dichlo...	0.289	0.221	0.221	0.207	0.248	0.241	0.238	12.28
29)		1,2-dichloroet...		0.211	0.214	0.190	0.235	0.236	0.217	8.87
30)		Propionitrile	0.043	0.032	0.027	0.027	0.030		0.032	20.48
31)		Bromochloromet...	0.120		0.106	0.105	0.120	0.128	0.115	8.57
32)		Tetrahydrofuran	0.064	0.054	0.051	0.050	0.056	0.082	0.059	20.48
33)		Chloroform	0.488	0.356	0.351	0.347	0.418	0.460	0.403	15.18
34)		Cyclohexane	0.624	0.344	0.365	0.320	0.372	0.360	0.398	~~28.35~~ m2=0.9
35)		1,1,1-Trichlor...	0.302	0.283	0.291	0.299	0.329	0.339	0.307	7.22
36)		Carbon tetrach...	0.150	0.170	0.251	0.261	0.291	0.270	0.232	~~24.84~~ m2=0.99
37)		Methylcyclohexane	0.373	0.314	0.345	0.327	0.363	0.328	0.342	6.72
38)		Isobutyl Alcohol	0.021	0.014	0.017	0.014	0.015	0.014	0.016	16.89
39)	SS	1,2-Dichloroet...	0.274	0.278	0.271	0.267	0.271	0.296	0.276	3.84
40)		1,4-Difluorobenzene	ISTD							
41)		2-Butanone	0.276	0.183	0.150	0.139	0.165	0.234	0.191	~~27.74~~ m2=0.99
42)		1,1-Dichloropr...	0.318	0.297	0.314	0.325	0.352	0.348	0.326	6.44

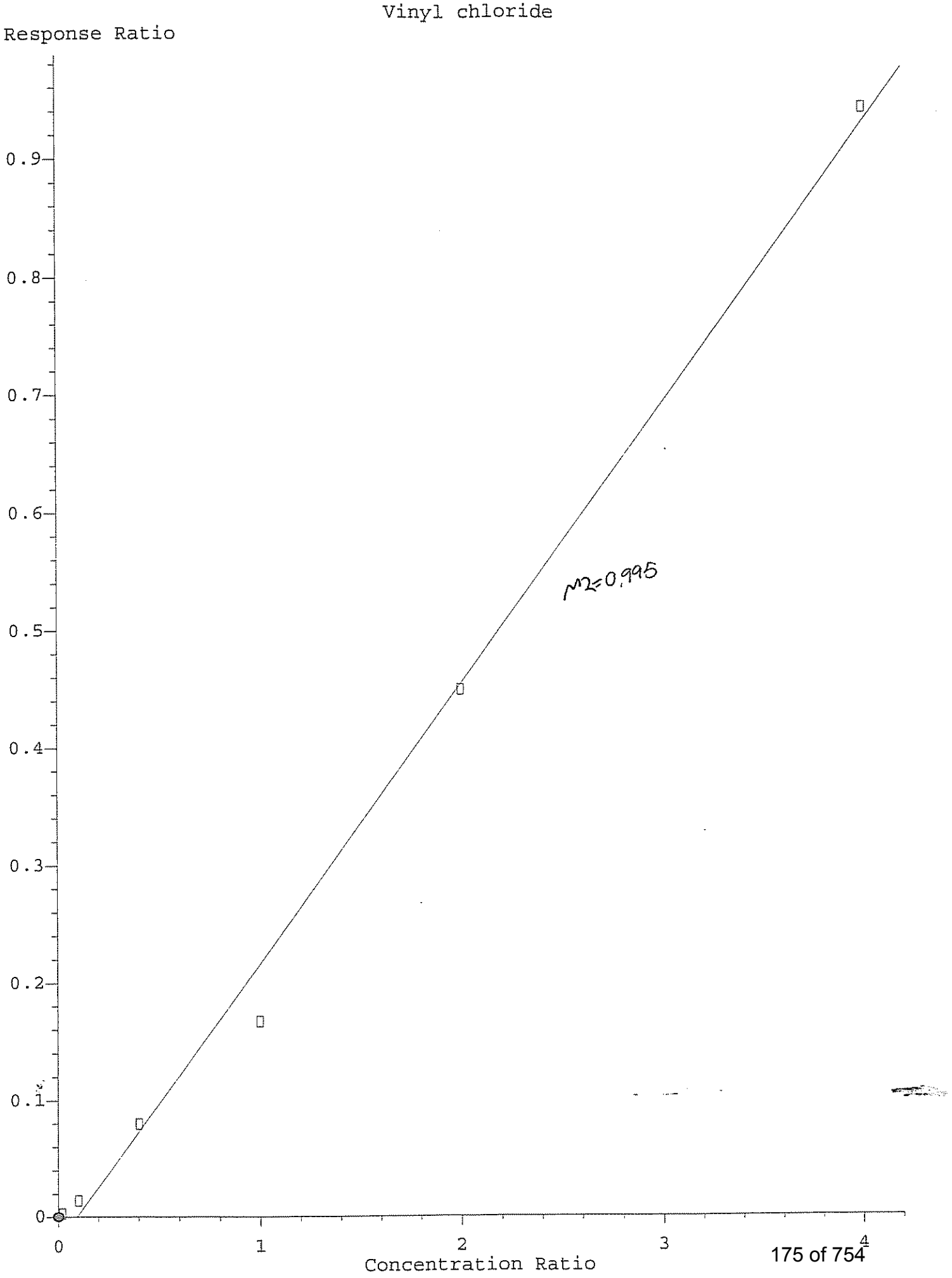
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

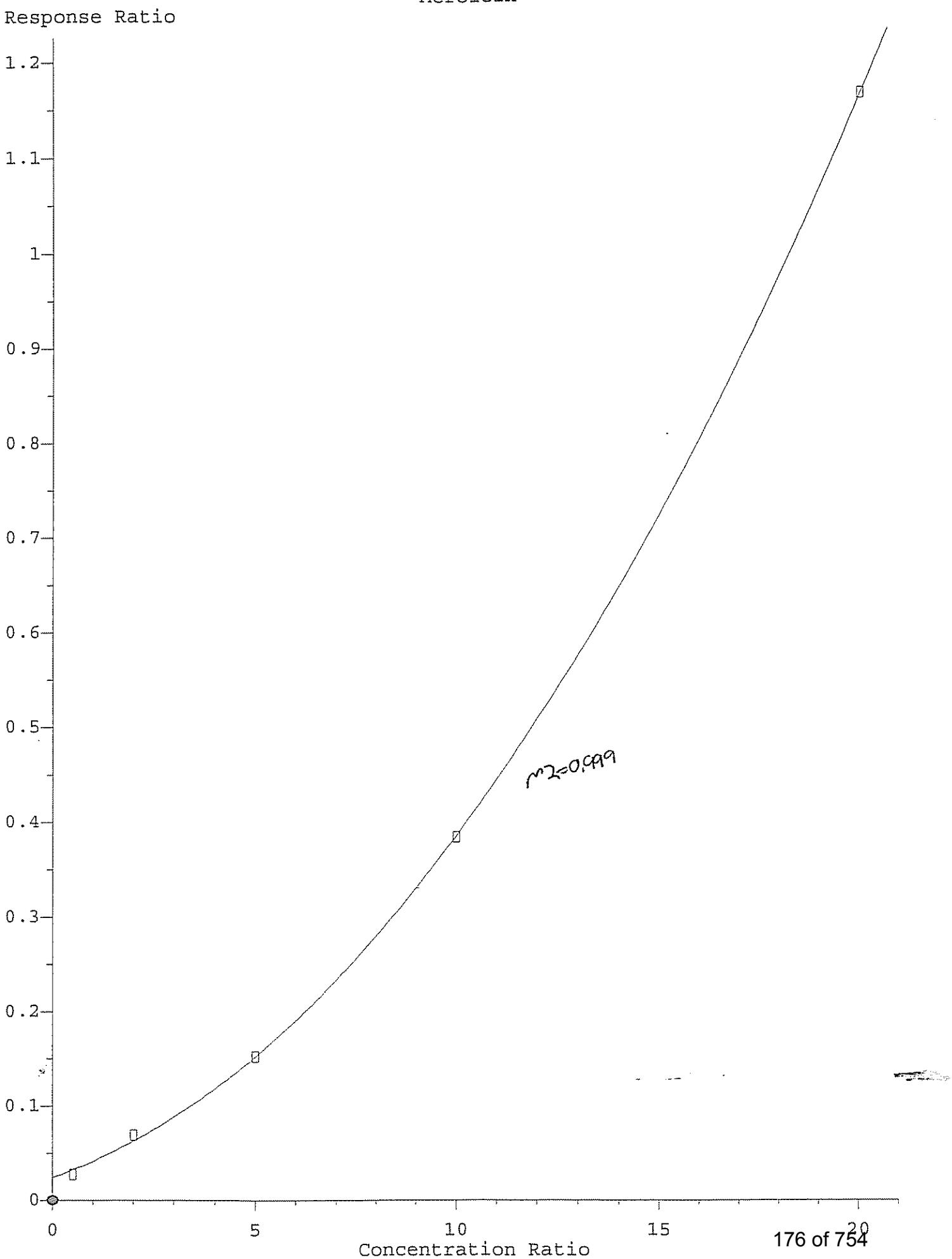
43)		Vinyl Acetate	0.355	0.307		0.299	0.425	0.399	0.357	15.52
44)		Benzene	1.162	1.016	0.997	1.042	1.084	1.166	1.078	6.77
45)		1,2-Dichloroet...	0.321	0.321	0.325	0.338	0.359	0.378	0.340	6.86
46)		Trichloroethene	0.302	0.290	0.250	0.265	0.269	0.282	0.276	6.77
47)		1,2-Dichloropr...	0.271	0.259	0.255	0.291	0.292	0.314	0.280	8.00
48)		Methyl methacr...	0.306	0.199	0.189	0.198	0.197	0.239	0.221	~~20.32~~ r^2=0.99
49)		Dibromomethane	0.151	0.152	0.164	0.176	0.180	0.198	0.170	10.64
50)		Bromodichlorom...	0.384	0.294	0.339	0.371	0.375	0.400	0.361	10.59
51)		2-Chloroethylv...	0.166	0.177	0.173	0.188	0.198	0.226	0.188	11.62
52)		Cis-1,3-dichlo...	0.282	0.339		0.457	0.463	0.499	0.408	~~22.73~~ r^2=0.99
53)	SS	Toluene-d8	1.145	1.137	1.147	0.834	1.137	1.258	1.110	12.88
54)		Toluene	0.558	0.576	0.613	0.509	0.688		0.589	11.38
55)		Trans-1,3-dich...	0.300		0.366	0.310	0.411	0.476	0.372	19.64
56)		Ethyl methacry...	0.350	0.351	0.329	0.276		0.437	0.349	16.62
57)		1,1,2-Trichlor...	0.267	0.199	0.198	0.162	0.215		0.208	18.35
58)	I	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
59)		4-Methyl-2-pen...	0.448	0.306	0.309	0.325	0.335	0.376	0.350	15.51
60)		2-Hexanone	0.310	0.216	0.205	0.233	0.226	0.248	0.240	15.66
61)		Tetrachloroethene	0.213	0.252	0.268	0.281	0.295	0.277	0.264	11.02
62)		1,3-Dichloropr...	0.377	0.381	0.401	0.426	0.425	0.421	0.405	5.47
63)		Dibromochlorom...	0.220	0.243	0.272	0.303	0.315	0.315	0.278	14.36
64)		1,2-Dibromoethane	0.213	0.229	0.251	0.272	0.268	0.275	0.251	10.06
65)		1-Chlorohexane	0.529	0.403	0.371	0.396	0.400	0.392	0.415	13.76
66)		Chlorobenzene	0.727	0.736	0.798	0.865	0.892	0.909	0.821	9.61
67)		1,1,1,2-Tetrac...	0.206		0.283	0.330	0.345	0.362	0.305	~~20.59~~ r^2=0.99
68)		Ethylbenzene	1.250		1.301	1.441	1.467	1.554	1.403	8.89
69)		m,p-Xylene	0.497		0.533	0.593	0.610	0.662	0.579	11.23
70)		o-Xylene	0.464	0.535	0.537	0.607	0.623	0.660	0.571	12.59
71)		Xylene (Total)	0.486	0.528	0.536	0.601	0.614	0.670	0.573	11.81
72)		Styrene	0.844	0.875	0.906	1.015	1.024	1.094	0.959	10.27
73)		Bromoform	0.116	0.146	0.183	0.211	0.219	0.245	0.187	~~25.82~~ r^2=0.99
74)		Isopropylbenzene	1.112	1.127	1.193	1.321	1.373	1.484	1.268	11.70
75)	SS	4-Bromofluorob...	0.493	0.497	0.482	0.500	0.491	0.514	0.496	2.12
76)		Bromobenzene	0.331		0.329	0.375	0.368	0.409	0.362	9.18
77)		1,1,2,2-Tetrac...	0.409	0.350	0.353	0.390	0.391	0.432	0.387	8.21
78)		1,2,3-Trichlor...	0.110	0.118	0.106	0.114	0.114	0.132	0.116	7.90
79)		n-Propylbenzene	1.491	1.574	1.624	1.835	1.809	1.975	1.718	10.71
80)		Trans-1,4-dich...	0.090	0.091	0.100	0.116	0.119	0.143	0.110	18.56
81)		2-Chlorotoluene	0.318	0.344	0.342	0.399	0.389	0.419	0.368	10.71
82)		4-Chlorotoluene	0.338		0.369	0.414	0.404	0.433	0.392	9.73
83)		1,3,5-Trimethy...	1.052		1.205	1.397	1.408	1.590	1.331	15.55
84)		Tert-butylbenzene	0.951		1.060	1.235	1.263	1.433	1.188	15.76
85)		Pentachloroethane							0.000	-1.00
86)		1,2,4-Trimethy...	1.269		1.244	1.445	1.449	1.671	1.416	12.12
87)		Sec-Butylbenzene	1.559		1.670	1.913	1.912	2.147	1.840	12.53
88)		1,3-Dichlorobe...	0.718		0.695	0.816	0.814	0.982	0.805	14.06
89)		4-Isopropyltol...	1.343	1.326	1.420	1.664	1.697	2.024	1.579	17.07
90)		1,4-Dichlorobe...	0.716		0.720	0.833	0.822	0.928	0.804	11.04
91)	SS	1,2-Dichlorobe...	0.527	0.540	0.530	0.544	0.532	0.576	0.541	3.33
92)		1,2-Dichlorobe...	0.720		0.691	0.789	0.783	0.884	0.773	9.59
93)		n-Butylbenzene	1.464	1.337	1.352	1.543	1.549	1.732	1.496	9.82
94)		1,2-Dibromo-3-...	0.065	0.072	0.069	0.079	0.078	0.096	0.077	14.47
95)		1,2,4-Trichlor...	0.544		0.445	0.520	0.509	0.627	0.529	12.45
96)		Hexachlorobuta...	0.281		0.192	0.208	0.221	0.274	0.235	17.09

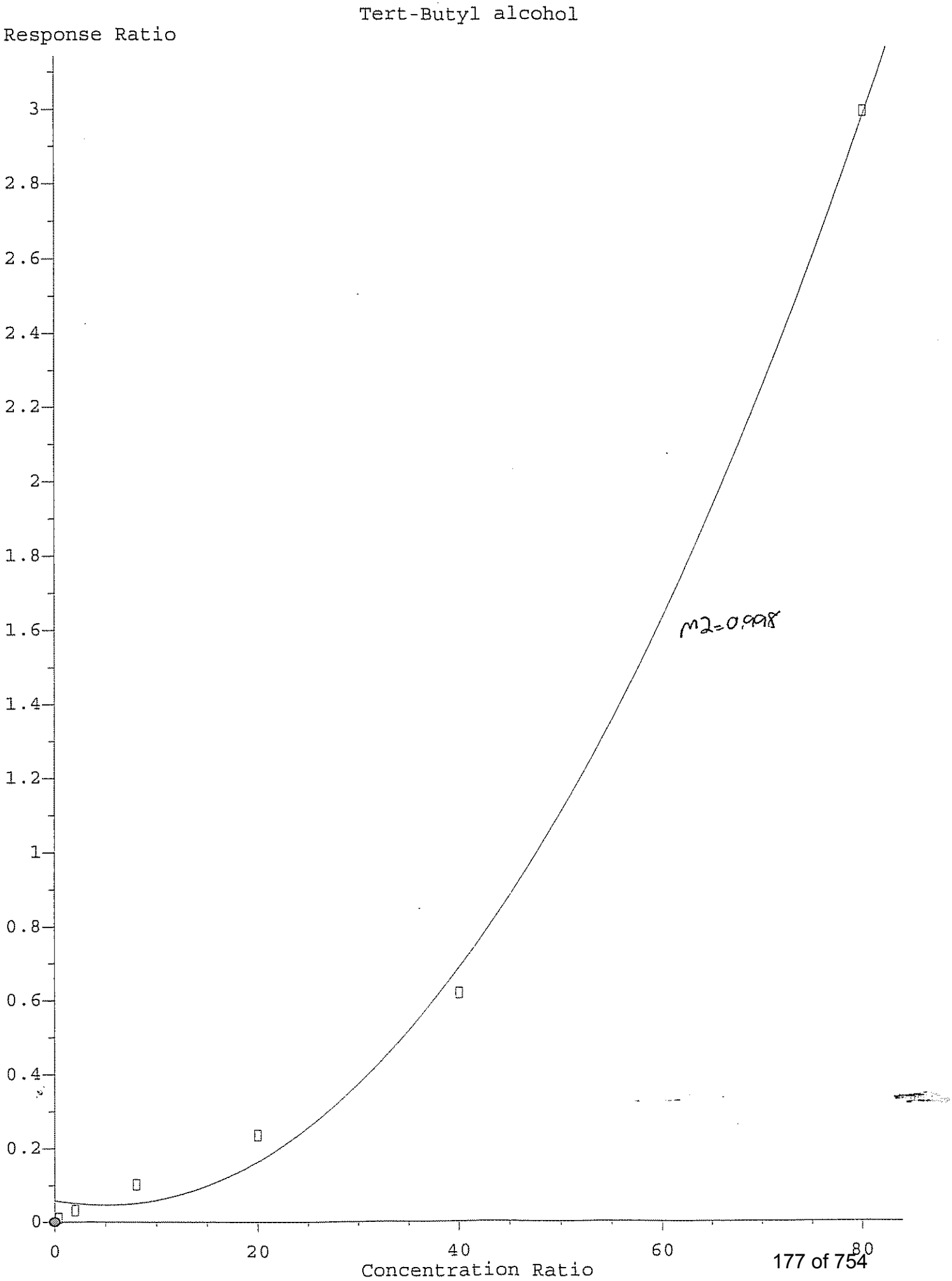
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

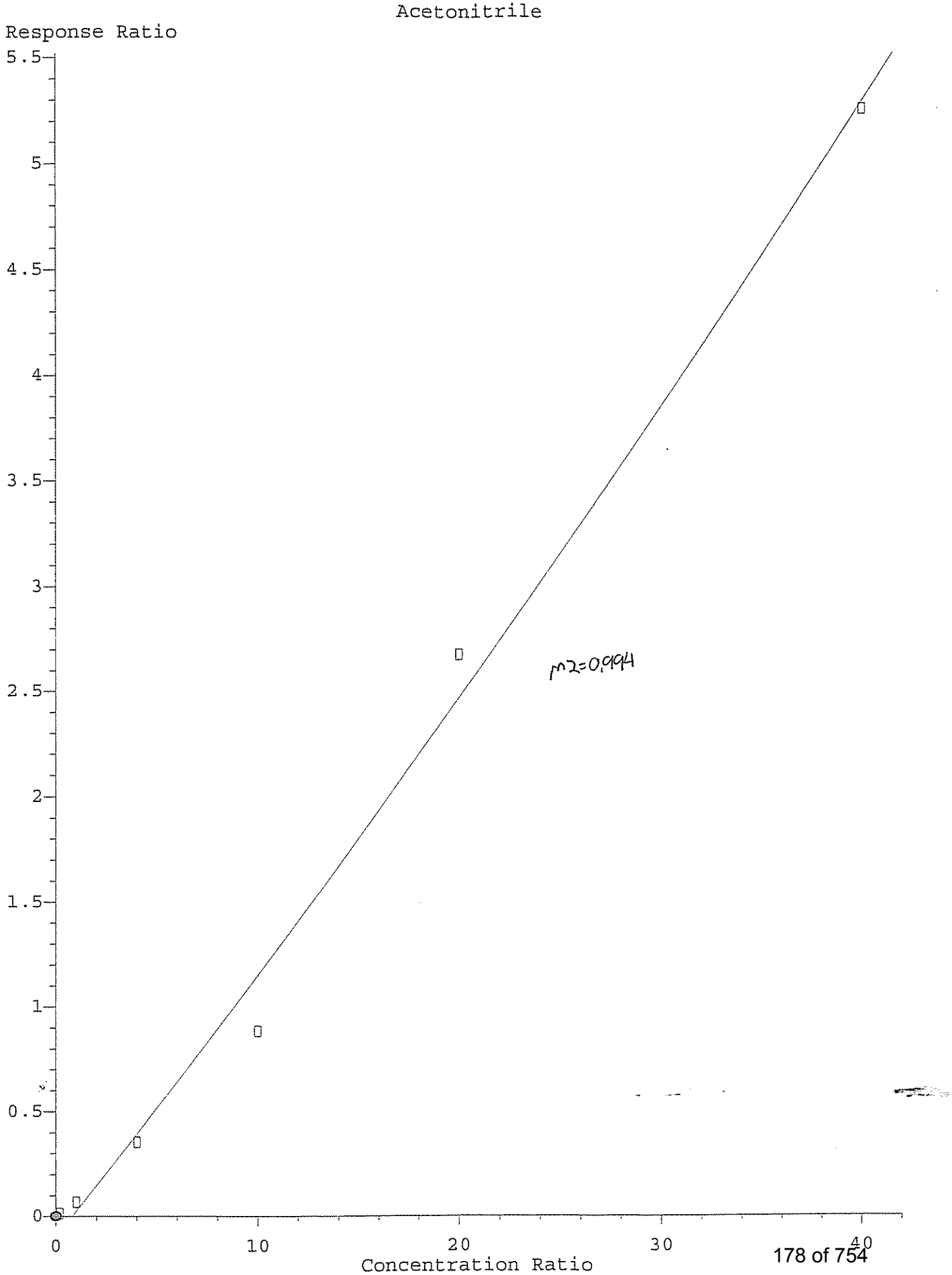
97)	Naphthalene	1.475	1.372	1.280	1.433	1.414	1.706	1.447	9.91
98)	1,2,3-Trichlor...	0.492		0.401	0.469	0.454	0.549	0.473	11.47

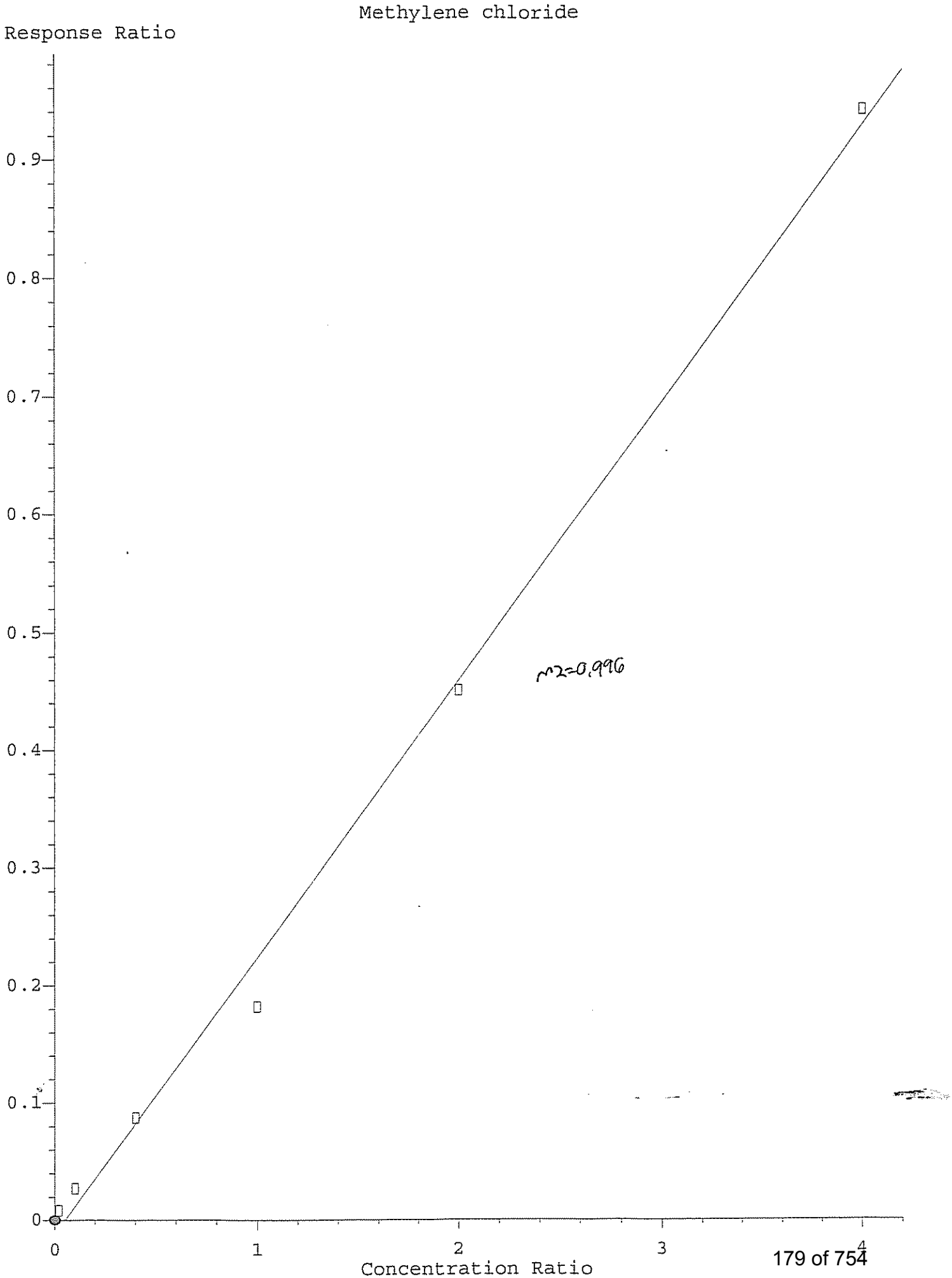
(#) = Out of Range

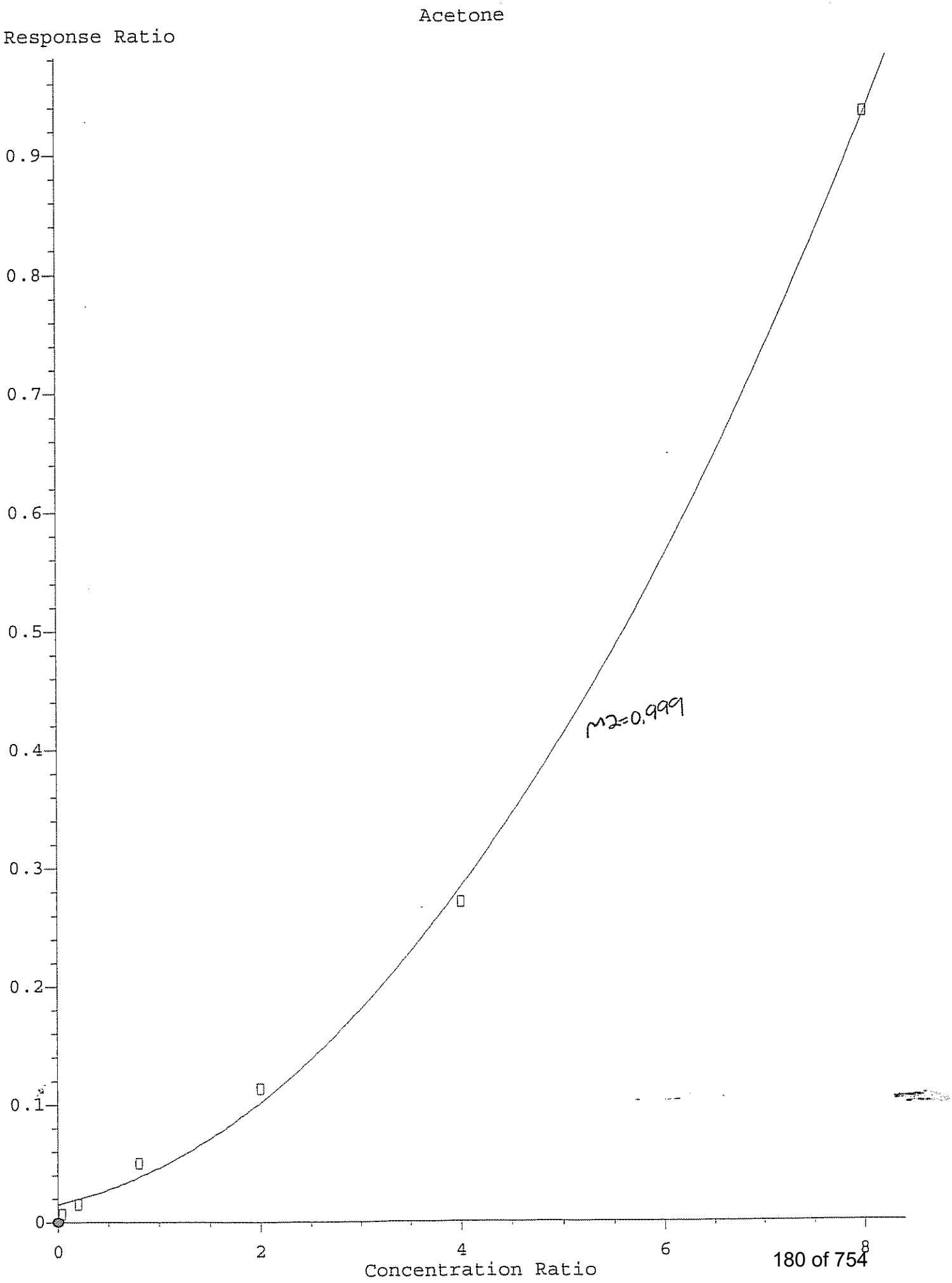

Vinyl chloride
Response Ratio
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.995

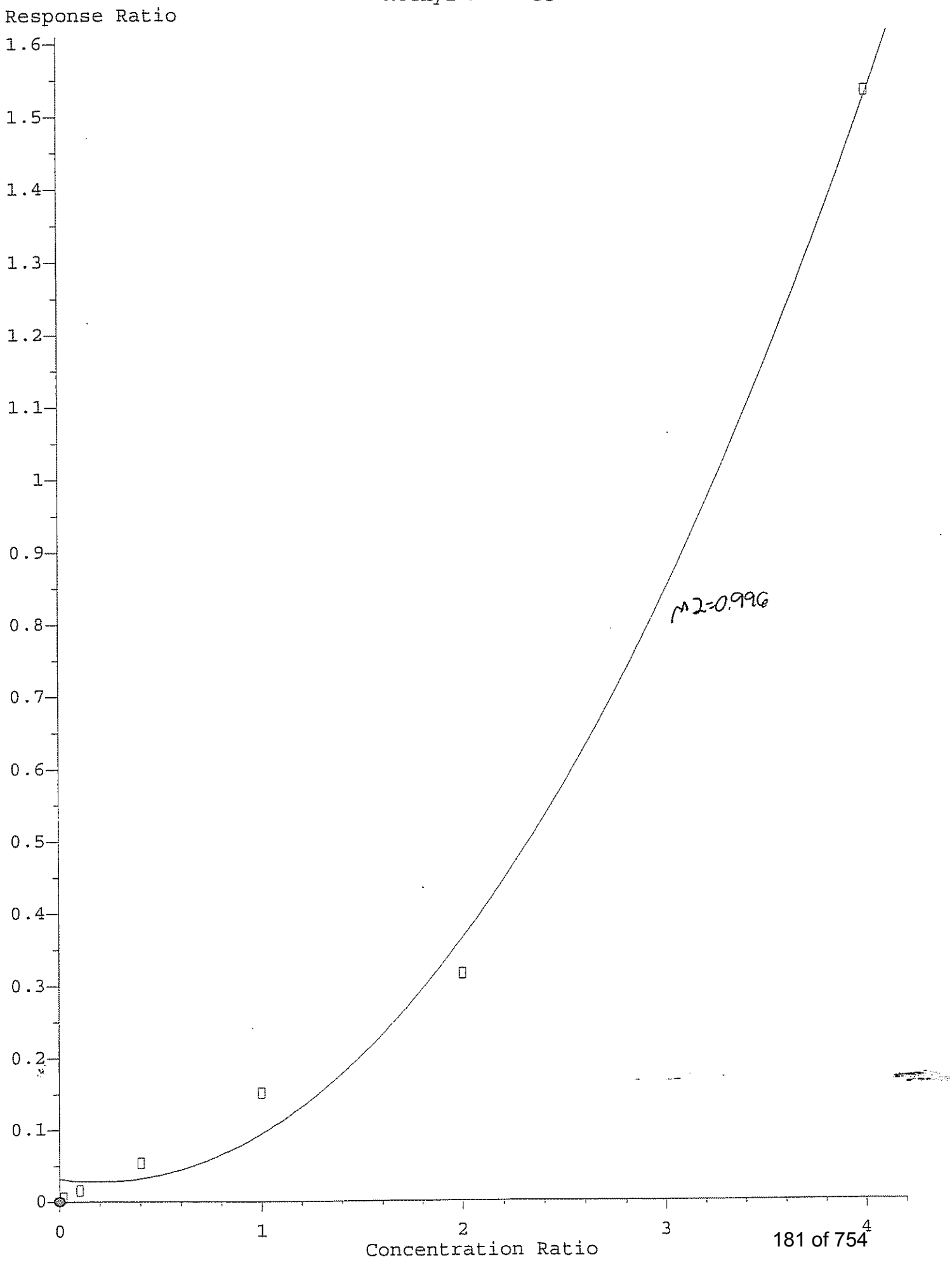

Acrolein
Response Ratio
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5
10
15
20
Concentration Ratio
r^2=0.999

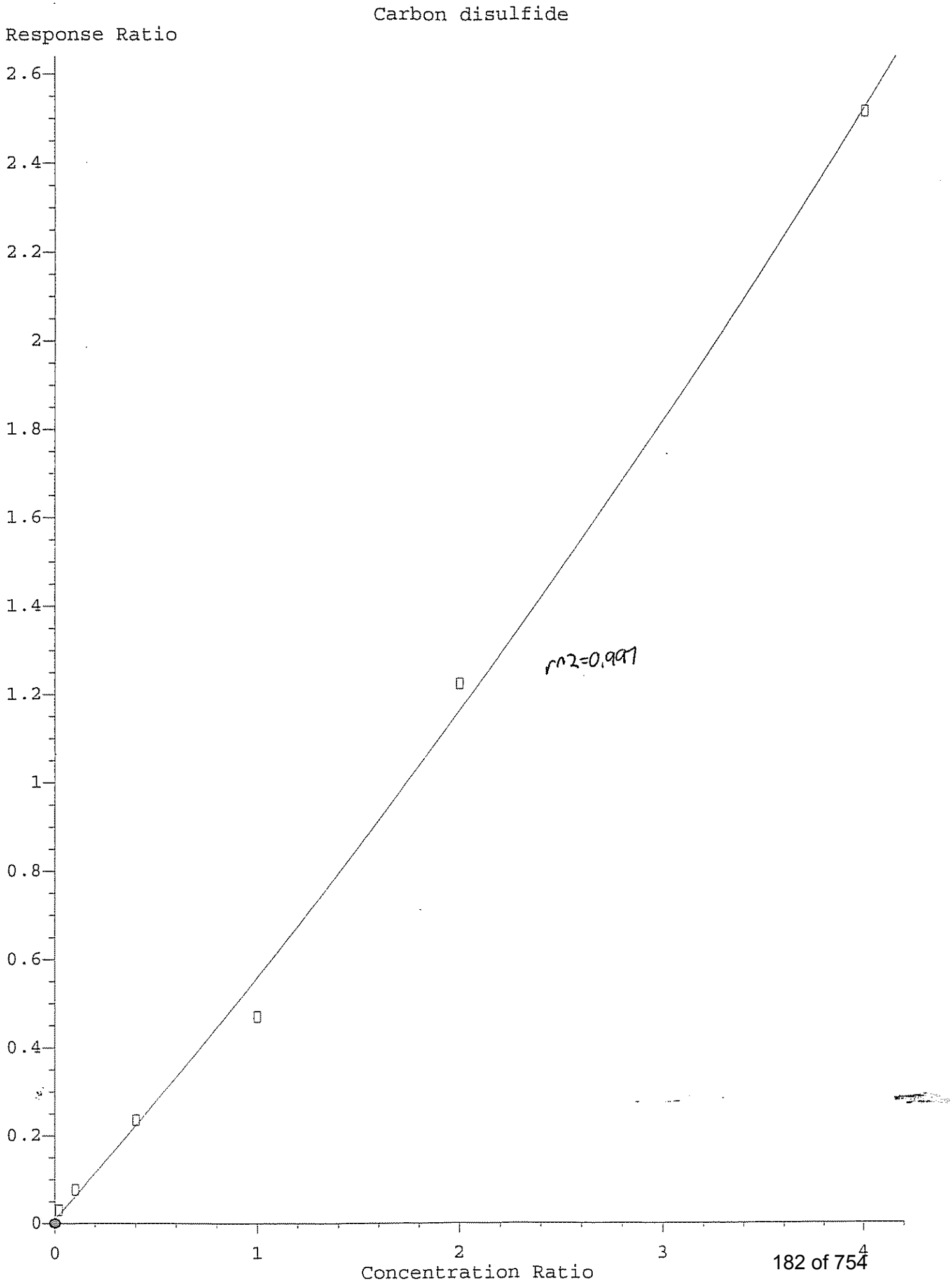

Tert-Butyl alcohol
Response Ratio
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
Concentration Ratio
R2=0.998

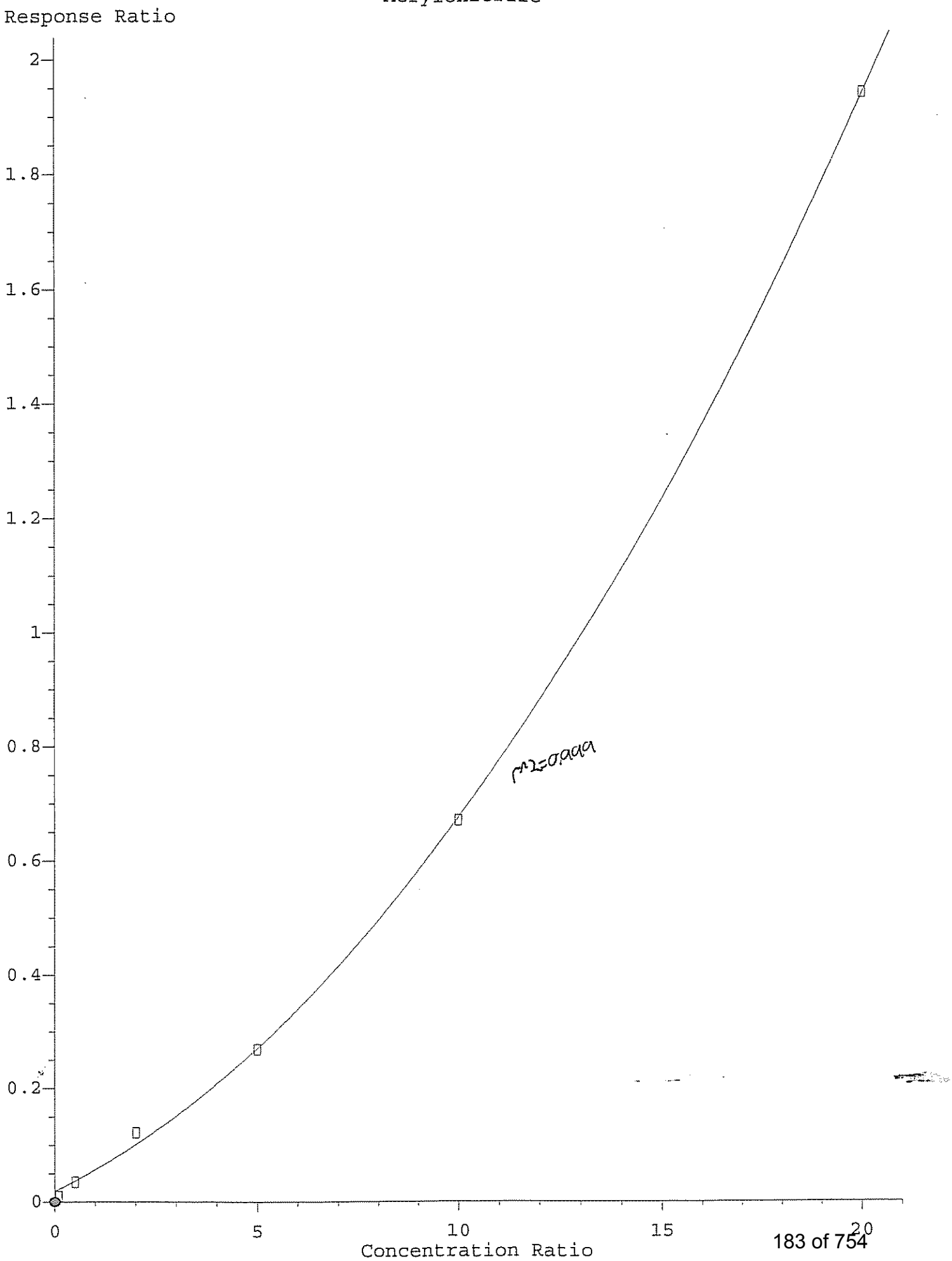

Acetonitrile
Response Ratio
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0
10
20
30
40
Concentration Ratio
r^2=0.994

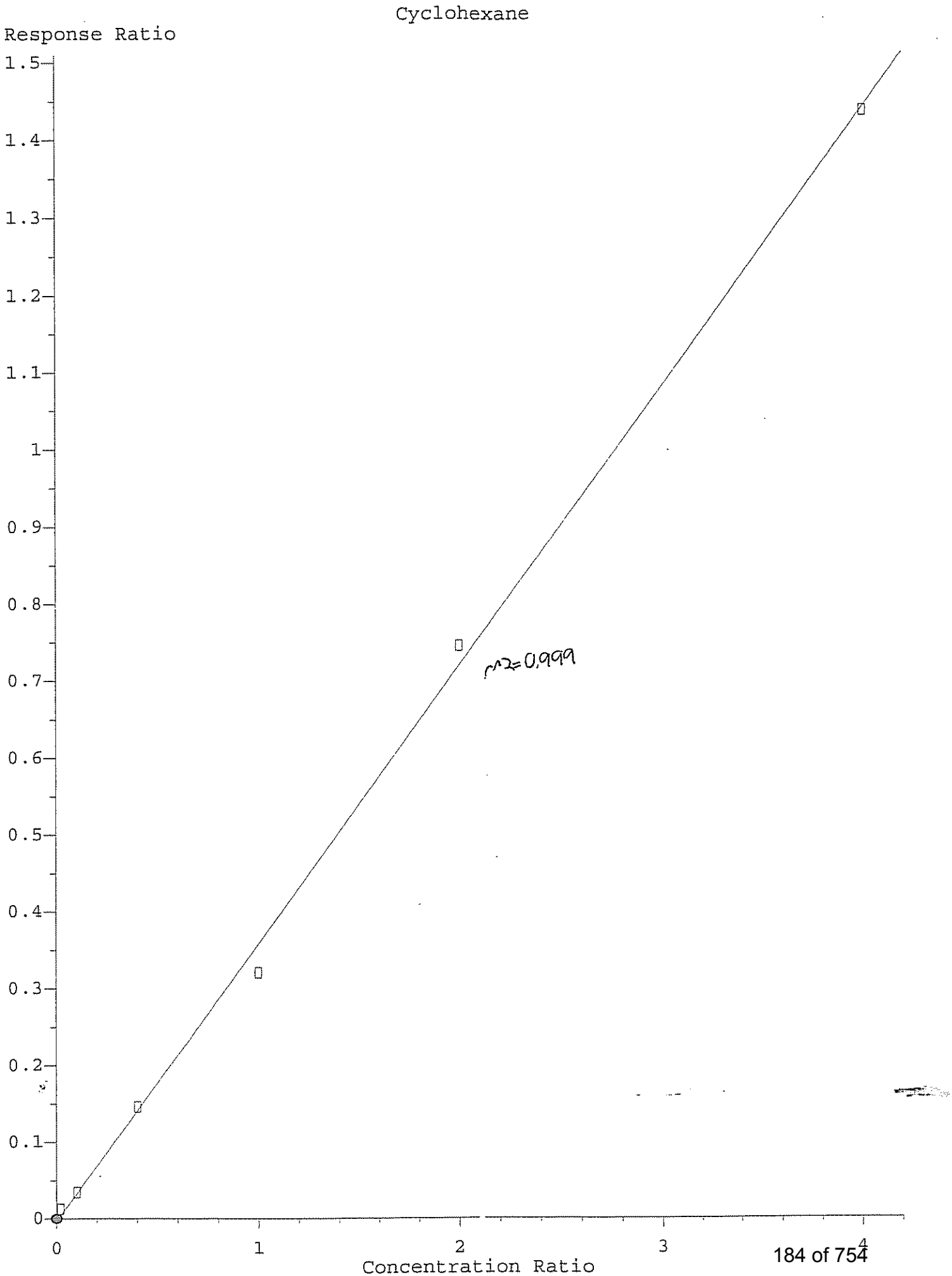

Methylene chloride
Response Ratio
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.996

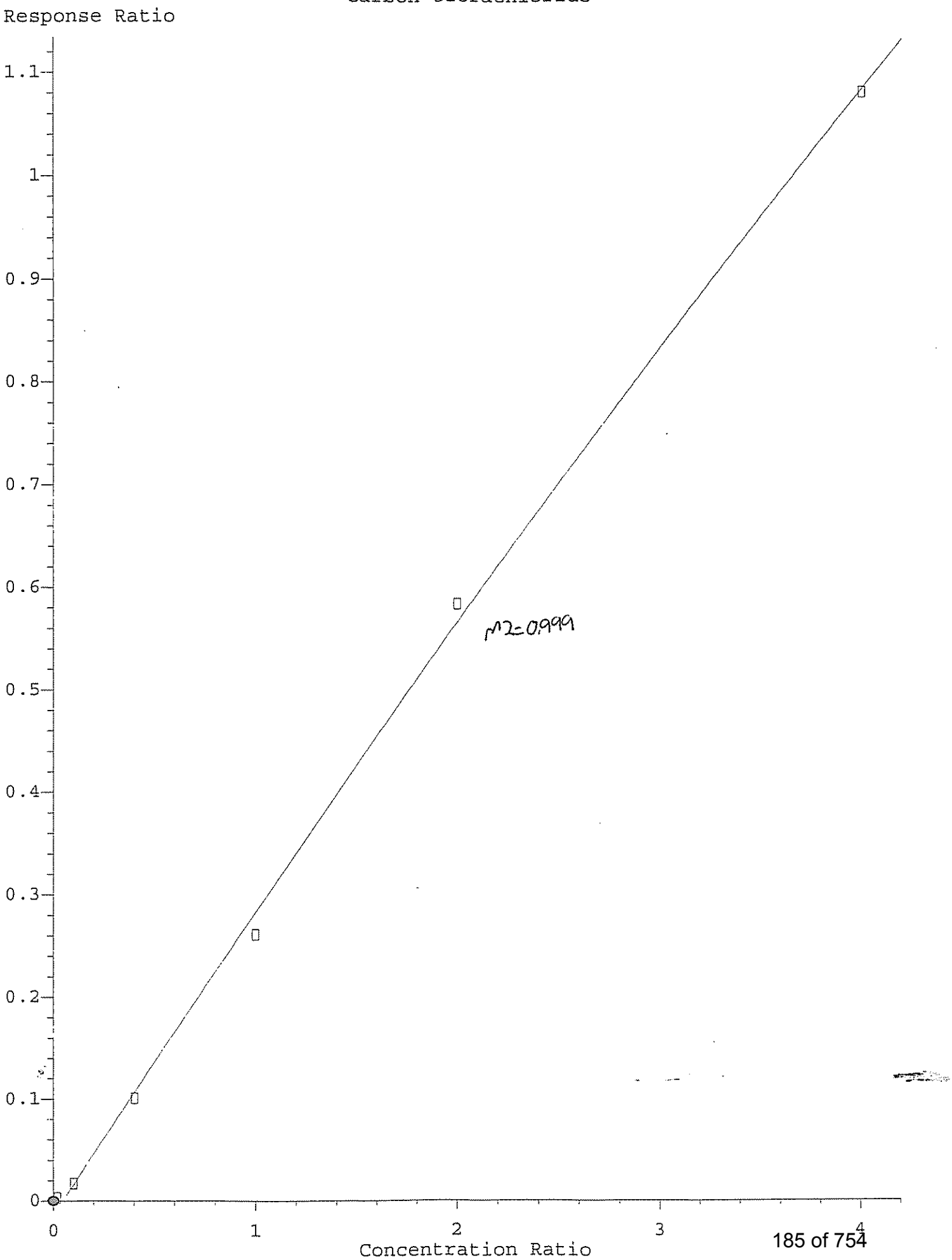

Acetone
Response Ratio
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
2
4
6
8
Concentration Ratio
R2=0.999

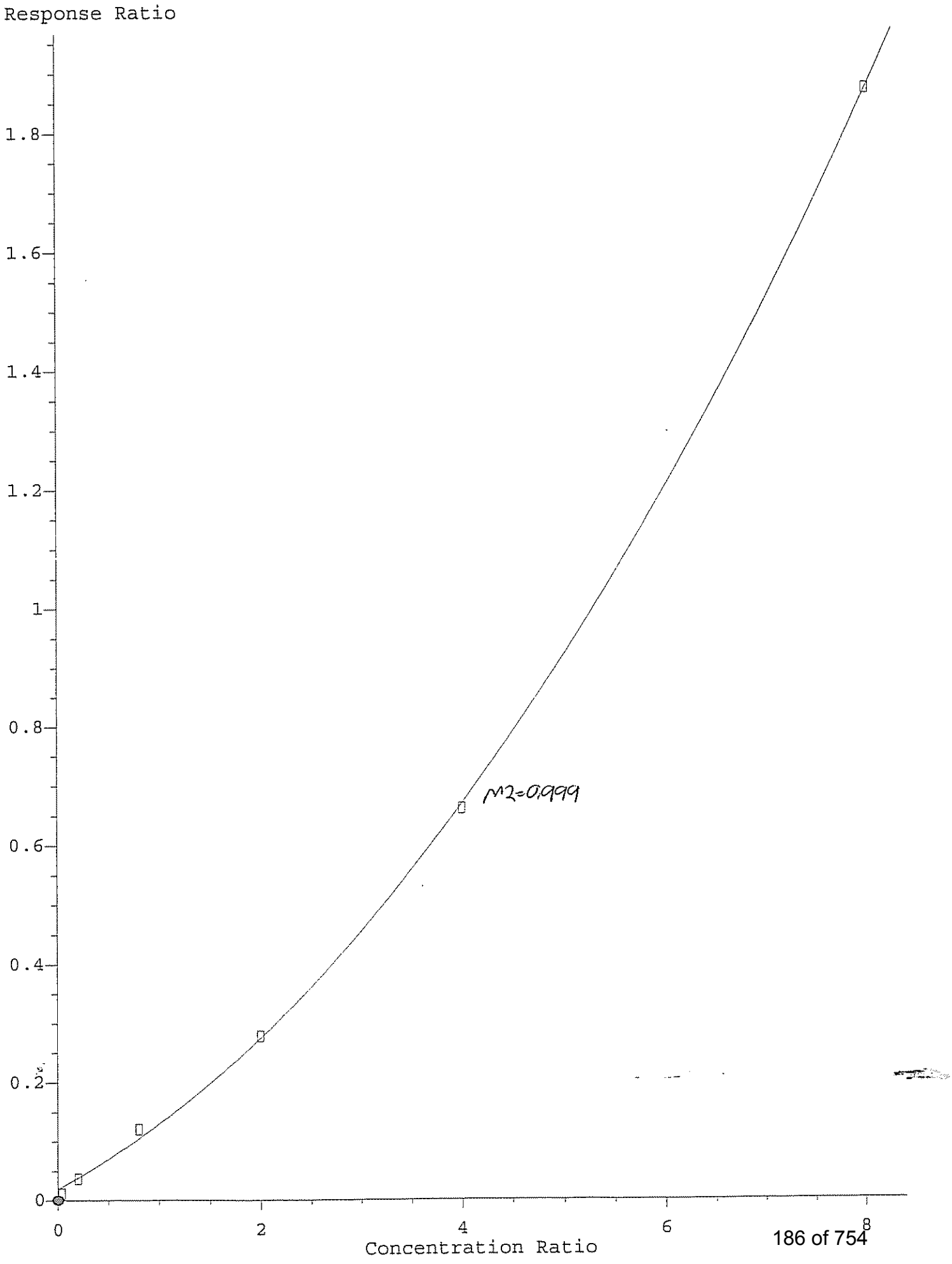

Methyl Acetate
Response Ratio
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0.996

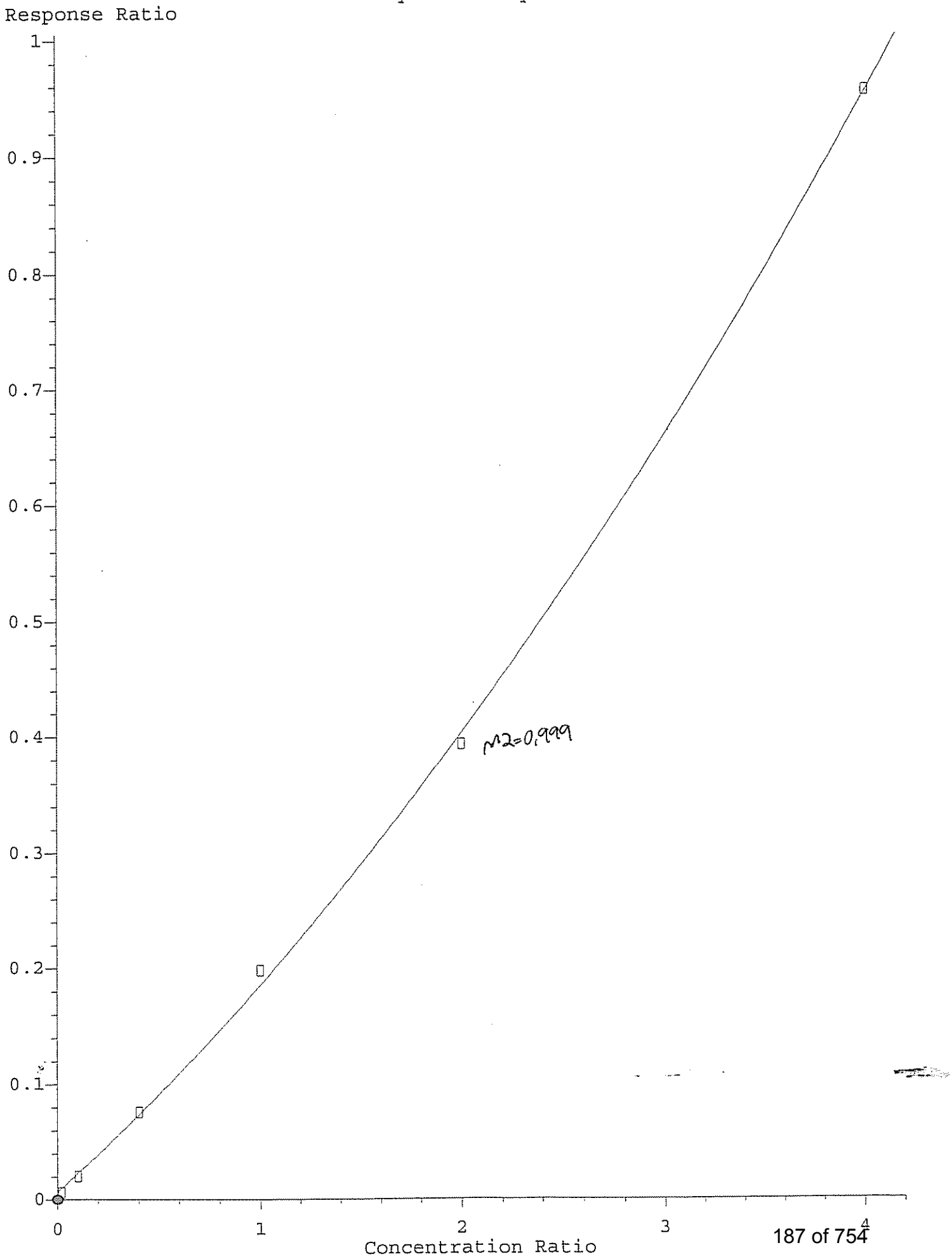

Carbon disulfide
Response Ratio
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
Concentration Ratio
r^2=0.997

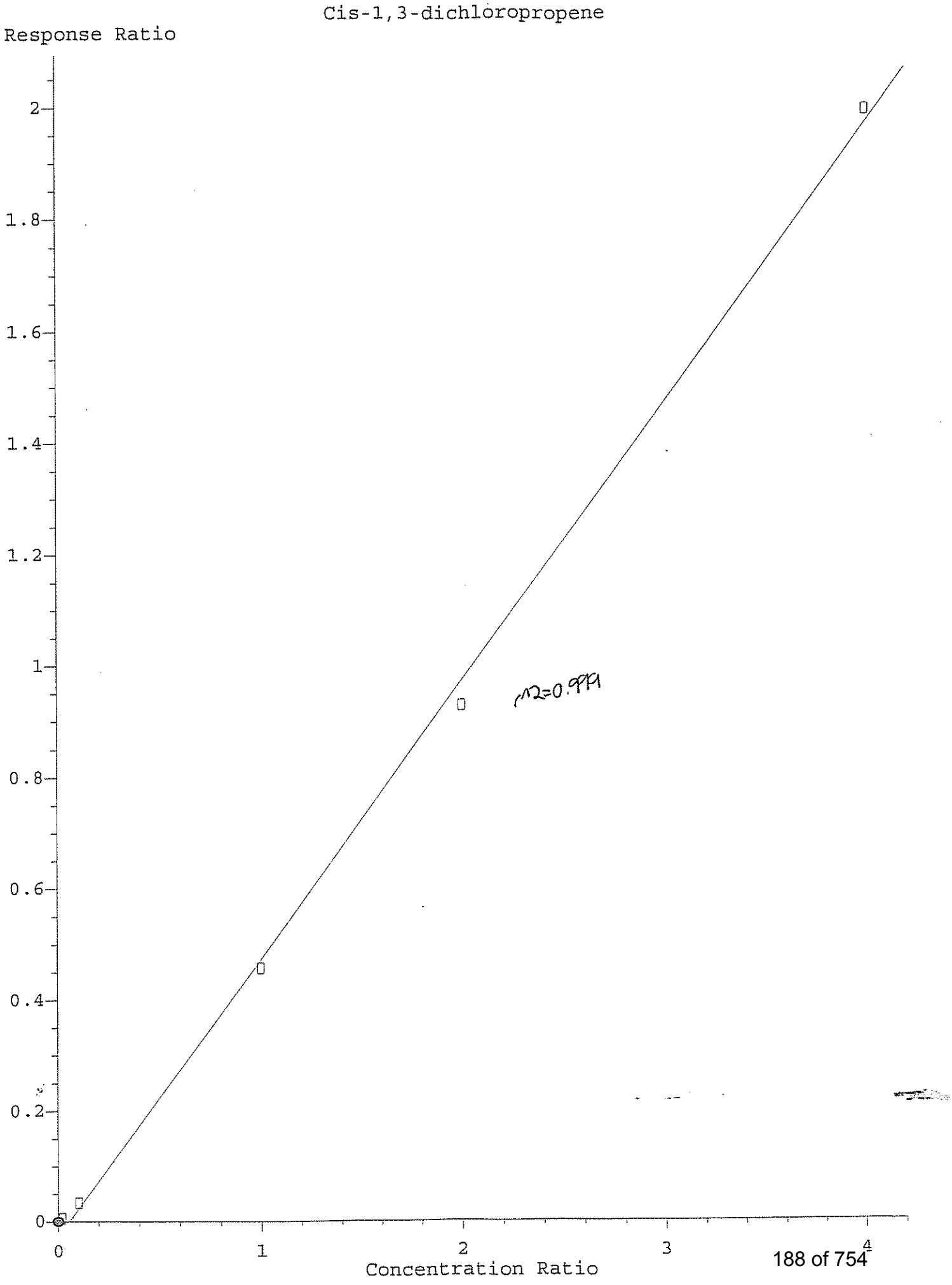

Acrylonitrile
Response Ratio
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
5
10
15
20
Concentration Ratio
r^2=0.999

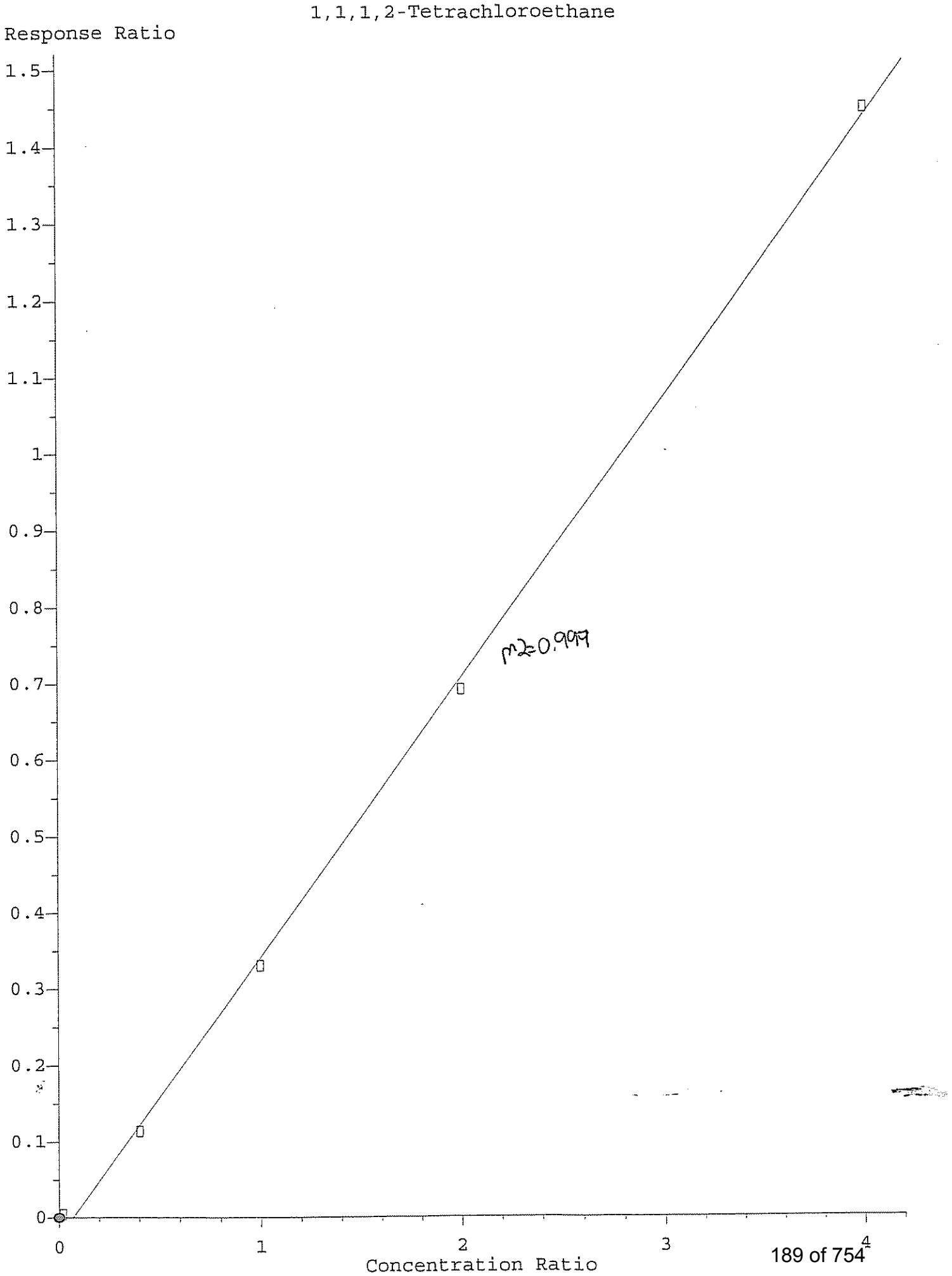

Cyclohexane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^2=0,999

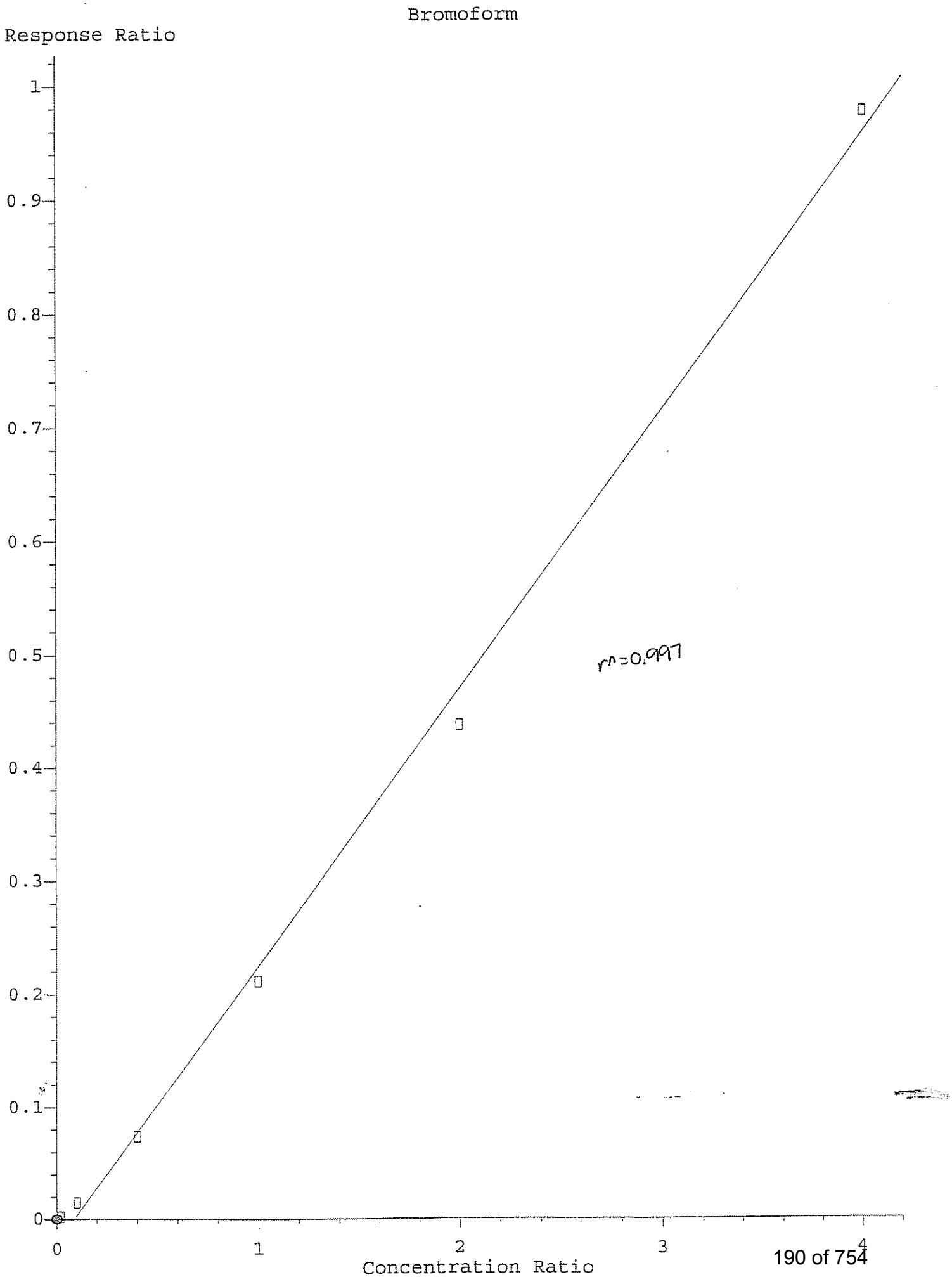

Carbon tetrachloride
Response Ratio
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
R2=0.999


2-Butanone
Response Ratio
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
Concentration Ratio
R2=0.999


Methyl methacrylate
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
R2=0.999


Cis-1,3-dichloropropene
Response Ratio
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
Concentration Ratio
r^2=0.999


1,1,1,2-Tetrachloroethane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
r^2=0.999
0
1
2
3
4
Concentration Ratio


Bromoform
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
4
Concentration Ratio
r^=0.997

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	377073	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.682	114	304611	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.779	117	279674	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	103238	49.47	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.94%				
53) Toluene-d8	6.148	98	348876	51.93	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.86%				
75) 4-Bromofluorobenzene	8.881	95	137930	49.64	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.28%				
91) 1,2-Dichlorobenzene-d4	10.085	152	147273	48.38	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 96.76%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.205	85	908m	1.08	ug/L		
3) Chloromethane	1.349	50	977m	0.75	ug/L		
4) Vinyl chloride	1.413	62	1008	0.69	ug/L	#	1
5) Bromomethane	1.649	94	531m	0.99	ug/L		
6) Chloroethane	1.718	64	1257m	1.22	ug/L		
7) Trichlorofluoromethane	1.857	101	1271	0.55	ug/L		93
8) Ethyl Ether	2.061	59	1384	0.99	ug/L	#	70
9) Freon 113	2.200	101	1404	1.12	ug/L		82
10) Acrolein	2.205	56	1609	4.92	ug/L	#	89
11) Tert-Butyl alcohol	2.681	59	3937	28.22	ug/L	#	47
12) 1,1-Dichloroethene	2.226	96	1533	1.13	ug/L	#	54
14) Acetonitrile	2.499	40	5117m	6.66	ug/L		
15) Methylene chloride	2.606	84	3076	1.80	ug/L	#	75
16) Trans-1,2-dichloroethene	2.772	96	1748	1.20	ug/L	#	57
17) Isopropyl ether	3.098	45	6412	1.07	ug/L		100
18) 1,1-Dichloroethane	3.125	63	2581	0.95	ug/L		92
19) Acetone	2.312	43	2590	4.54	ug/L		94
20) Methyl Acetate	4.265	43	2042	1.38	ug/L	#	100
21) MTBE	2.751	73	4358	1.00	ug/L		100
22) Carbon disulfide	2.371	76	11482	2.49	ug/L		100
24) Acrylonitrile	2.847	53	3898	7.42	ug/L	#	77
25) Chloroprene	3.157	53	2858	1.14	ug/L	#	80
26) n-Heptane	4.447	71	1757m	1.44	ug/L		
27) 2,2-Dichloropropane	3.558	77	2277	1.05	ug/L	#	64
28) Cis-1,2-dichloroethene	3.591	96	2179	1.27	ug/L	#	76
29) 1,2-dichloroethene(total)	3.591	96	5955m	3.64	ug/L		

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
30) Propionitrile	3.746	54	3210	12.83 ug/L #	74
31) Bromochloromethane	3.794	128	903	1.05 ug/L	74
32) Tetrahydrofuran	3.617	72	479	1.08 ug/L	97
33) Chloroform	3.842	83	3682	1.26 ug/L	85
34) Cyclohexane	3.949	56	4709	1.77 ug/L #	88
35) 1,1,1-Trichloroethane	3.965	97	2280	0.98 ug/L	93
36) Carbon tetrachloride	4.077	117	1133	0.60 ug/L #	72
37) Methylcyclohexane	4.998	83	2816	1.11 ug/L #	93
38) Isobutyl Alcohol	4.441	43	3165	28.20 ug/L	89
41) 2-Butanone	3.623	43	3360	3.16 ug/L	92
42) 1,1-Dichloropropene	4.104	75	1940	0.97 ug/L	100
43) Vinyl Acetate	3.147	43	2161	0.99 ug/L #	84
44) Benzene	4.291	78	7079	1.10 ug/L	100
45) 1,2-Dichloroethane	4.388	62	1957	0.93 ug/L #	67
46) Trichloroethene	4.891	95	1839	1.11 ug/L	95
47) 1,2-Dichloropropane	5.163	63	1654	0.96 ug/L	89
48) Methyl methacrylate	5.270	69	1862m	1.49 ug/L	
49) Dibromomethane	5.292	93	922	0.87 ug/L #	71
50) Bromodichloromethane	5.436	83	2340	1.08 ug/L #	98
51) 2-Chloroethylvinyl ether	5.779	63	4042	3.45 ug/L	95
52) Cis-1,3-dichloropropene	5.912	75	1717	0.64 ug/L	98
54) Toluene	6.223	92	3397	0.93 ug/L	84
55) Trans-1,3-dichloropropene	6.570	75	1829	0.77 ug/L	95
56) Ethyl methacrylate	6.624	69	2131m	1.00 ug/L	
57) 1,1,2-Trichloroethane	6.779	83	1626	1.38 ug/L #	72
59) 4-Methyl-2-pentanone	6.100	43	5007	2.71 ug/L #	83
60) 2-Hexanone	7.068	43	3469	2.75 ug/L	94
61) Tetrachloroethene	6.795	166	1189	0.77 ug/L #	58
62) 1,3-Dichloropropane	6.977	76	2111	0.92 ug/L #	56
63) Dibromochloromethane	7.175	129	1232	0.76 ug/L	97
64) 1,2-Dibromoethane	7.314	107	1194	0.82 ug/L	98
65) 1-Chlorohexane	7.790	91	2961	1.35 ug/L #	47
66) Chlorobenzene	7.806	112	4068	0.87 ug/L #	81
67) 1,1,1,2-Tetrachloroethane	7.913	131	1153	0.67 ug/L #	18
68) Ethylbenzene	7.902	91	6991	0.87 ug/L	98
69) m,p-Xylene	8.020	106	5561	1.66 ug/L	92
70) o-Xylene	8.395	106	2594	0.78 ug/L	85
71) Xylene (Total)	8.020	106	8155m	2.47 ug/L	
72) Styrene	8.421	104	4721	0.86 ug/L	91
73) Bromoform	8.598	173	650	0.58 ug/L	100
74) Isopropylbenzene	8.716	105	6220	0.86 ug/L	99
76) Bromobenzene	8.999	156	1850	0.89 ug/L	88

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration

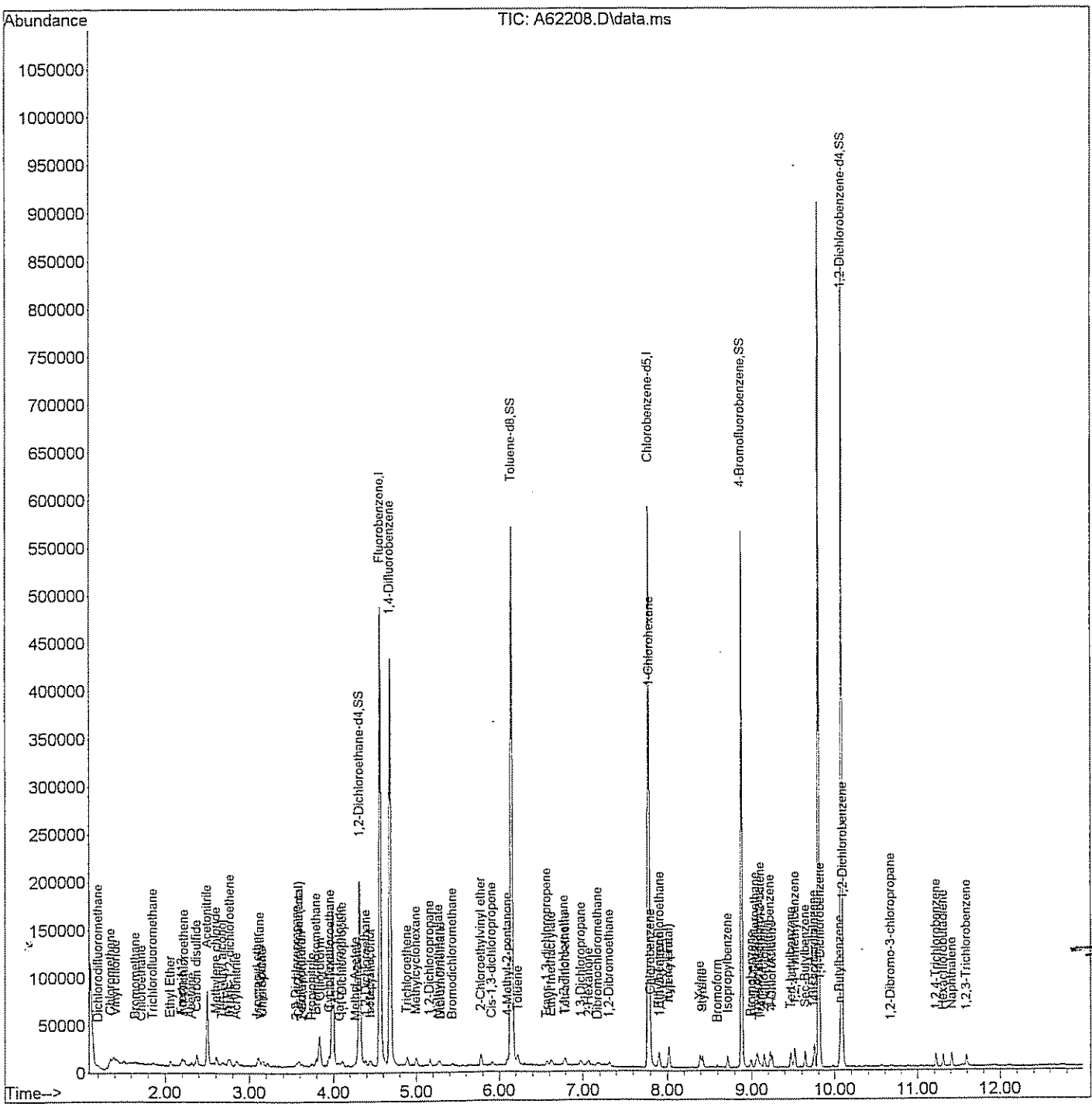
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) 1,1,2,2-Tetrachloroethane	9.047	83	2290	1.07 ug/L	94
78) 1,2,3-Trichloropropane	9.085	110	616	0.94 ug/L	94
79) n-Propylbenzene	9.069	91	8340	0.85 ug/L	93
80) Trans-1,4-dichloro-2-b...	9.106	53	503	0.79 ug/L #	25
81) 2-Chlorotoluene	9.154	126	1779	0.84 ug/L	92
82) 4-Chlorotoluene	9.245	126	1890	0.83 ug/L	98
83) 1,3,5-Trimethylbenzene	9.224	105	5886	0.75 ug/L	88
84) Tert-butylbenzene	9.470	119	5321	0.76 ug/L	92
86) 1,2,4-Trimethylbenzene	9.518	105	7100	0.87 ug/L	99
87) Sec-Butylbenzene	9.641	105	8721	0.82 ug/L	97
88) 1,3-Dichlorobenzene	9.743	146	4018	0.87 ug/L	98
89) 4-Isopropyltoluene	9.753	119	7514	0.83 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	4003m	0.87 ug/L	
92) 1,2-Dichlorobenzene	10.101	146	4028m	0.92 ug/L	
93) n-Butylbenzene	10.058	91	8187	0.97 ug/L	96
94) 1,2-Dibromo-3-chloropr...	10.674	75	363	0.82 ug/L #	67
95) 1,2,4-Trichlorobenzene	11.225	180	3045	1.04 ug/L	96
96) Hexachlorobutadiene	11.305	225	1574	1.26 ug/L	87
97) Naphthalene	11.412	128	8253	1.02 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	2750	1.05 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

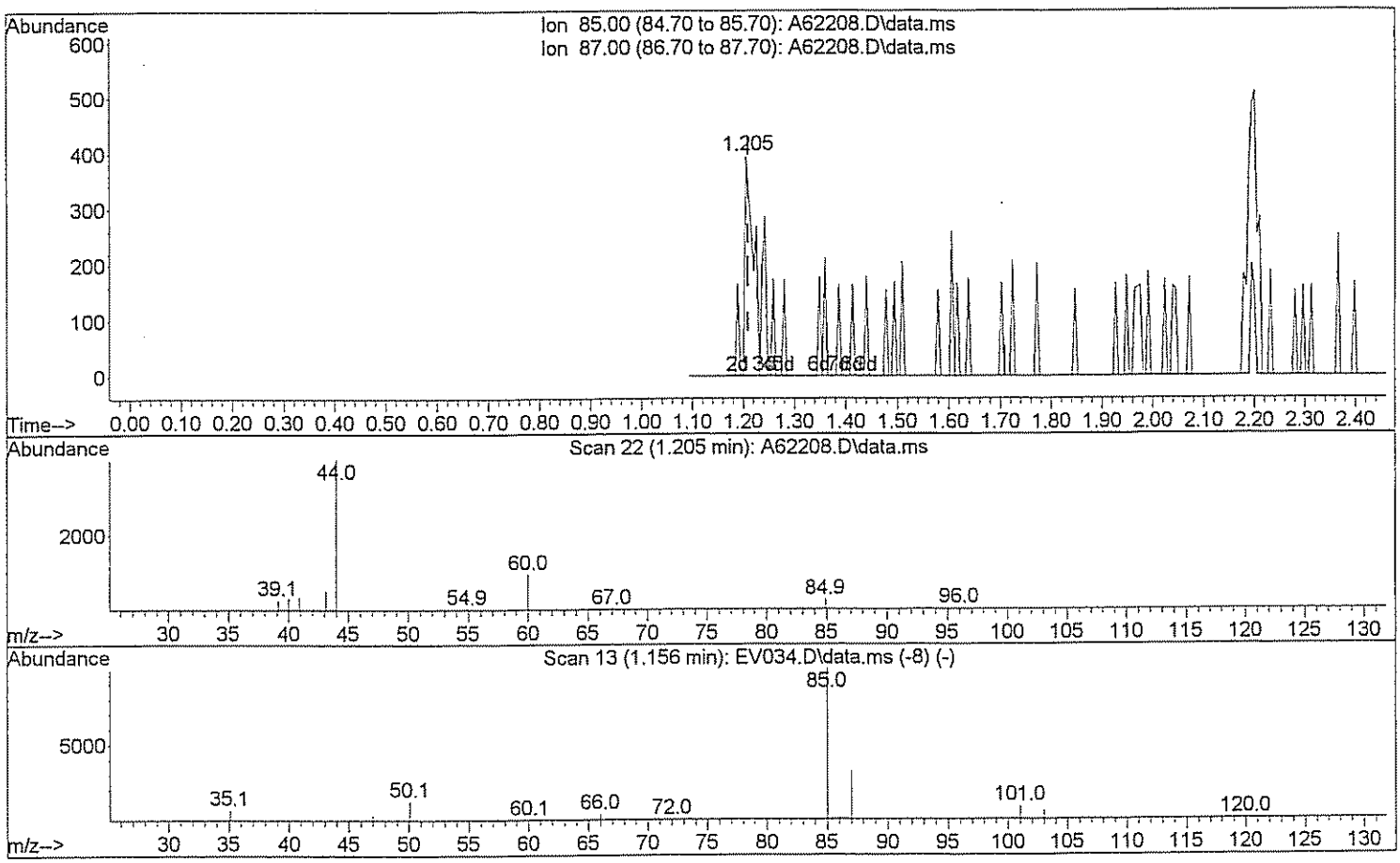
Quant Time: Mar 12 13:25:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(2) Dichlorodifluoromethane

1.205min (-0.005) 0.55 ug/L

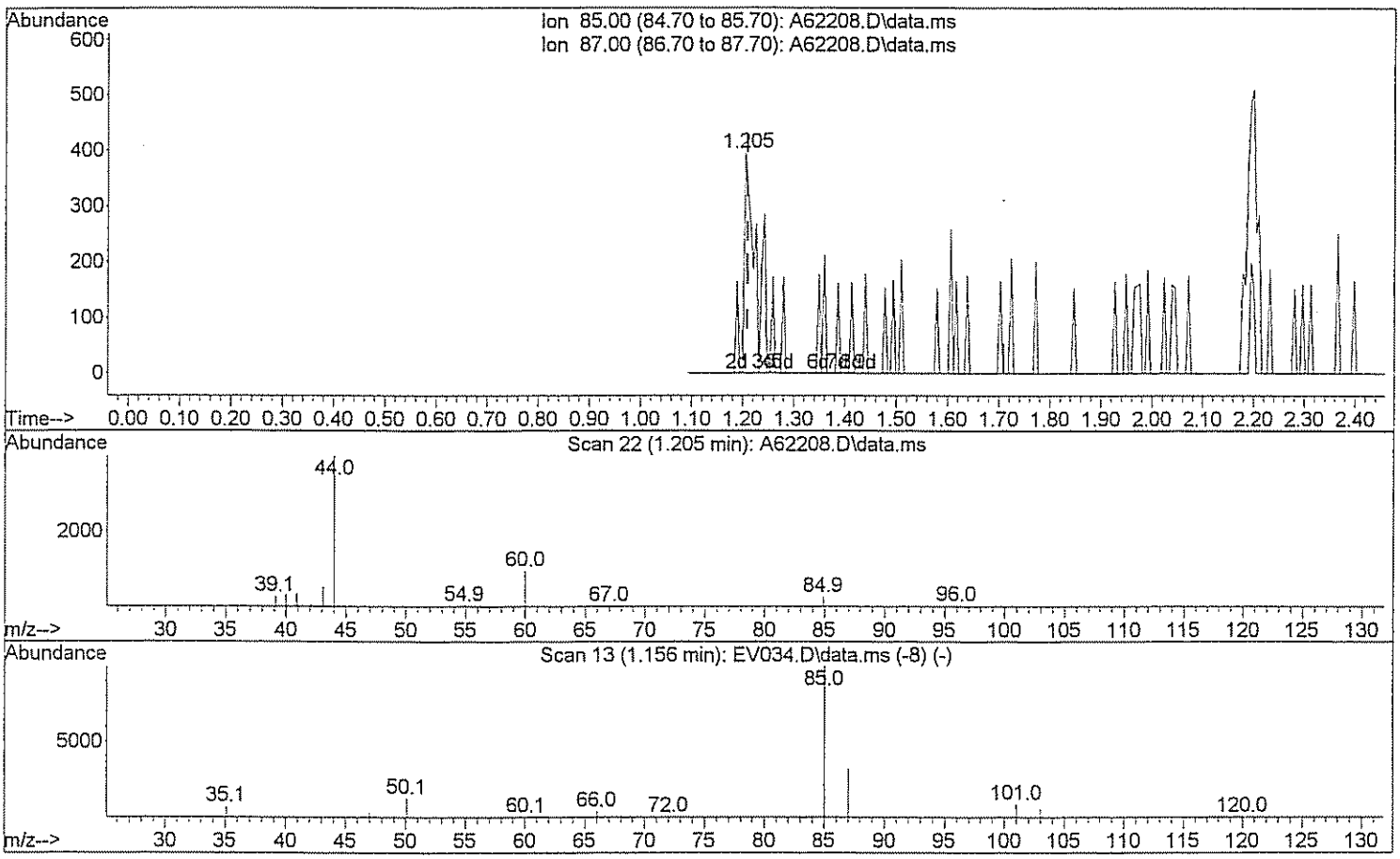
response 463

Ion	Exp%	Act%
85.00	100	100
87.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(2) Dichlorodifluoromethane

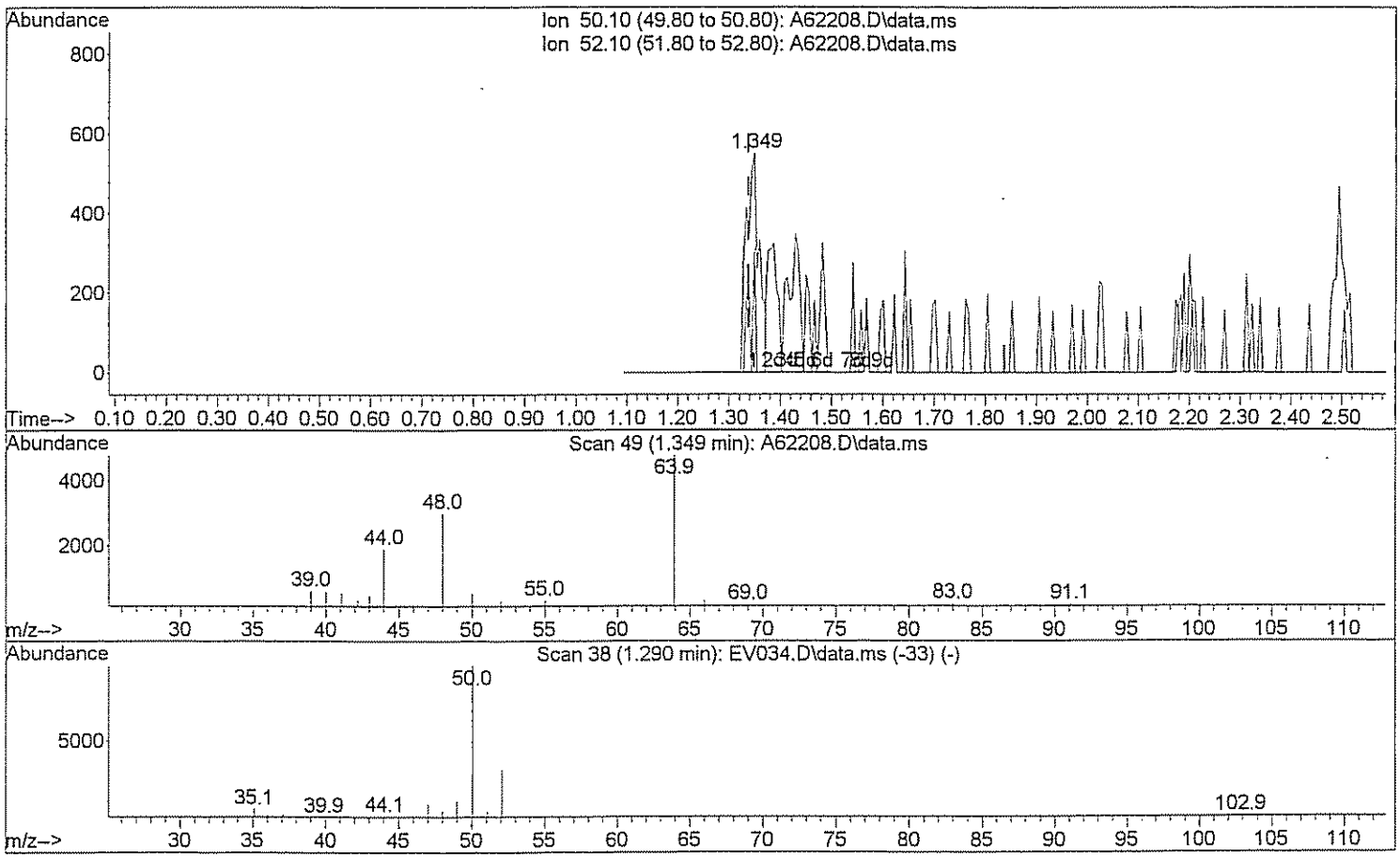
1.205min (-0.005) 1.08 ug/L m DW 3/12/09

response 908

Ion	Exp%	Act%
85.00	100	100
87.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(3) Chloromethane

1.349min (+0.011) 0.75 ug/L

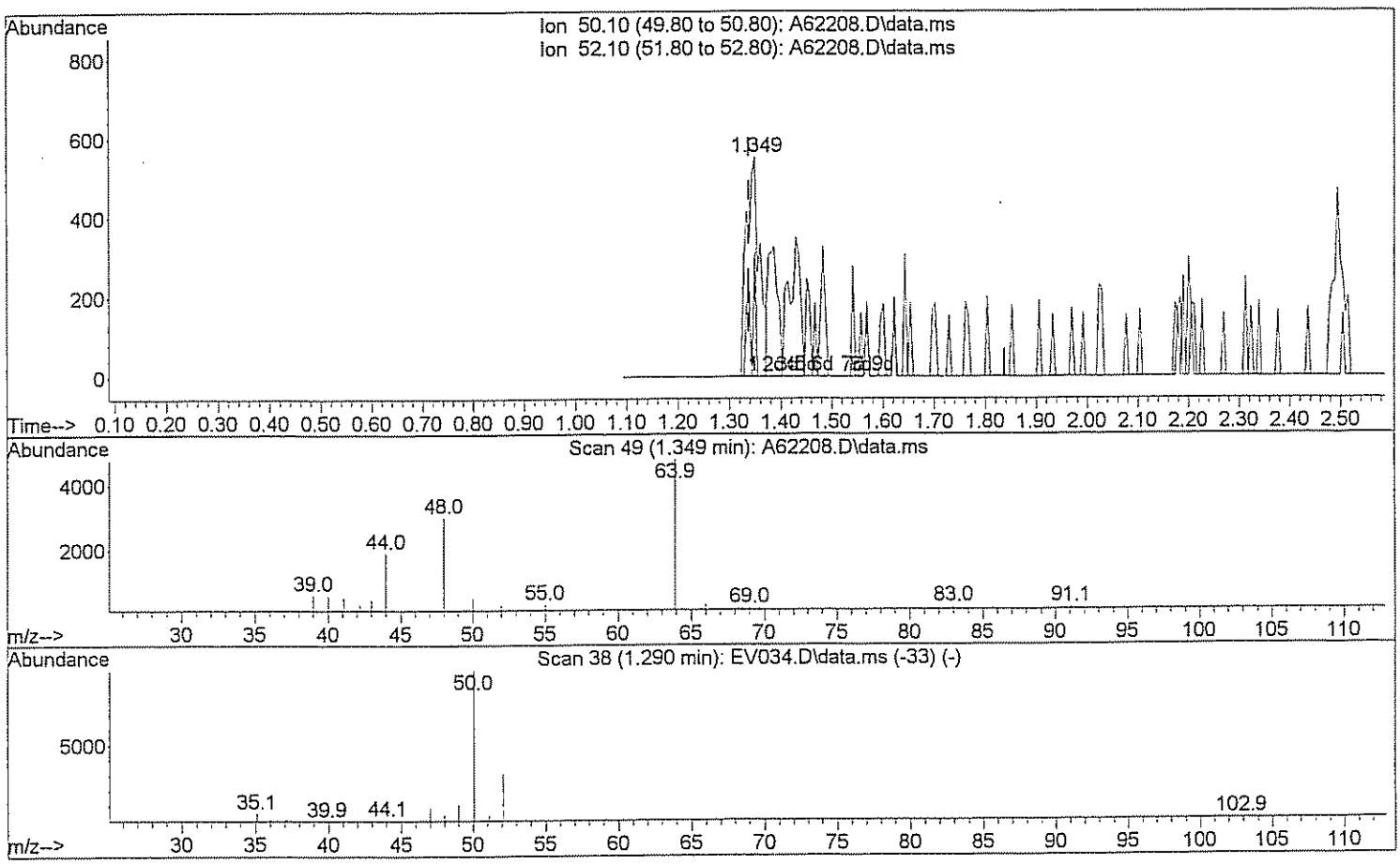
response 977

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	12.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(3) Chloromethane

1.349min (+0.011) 0.75 ug/L m DW 3/12/09

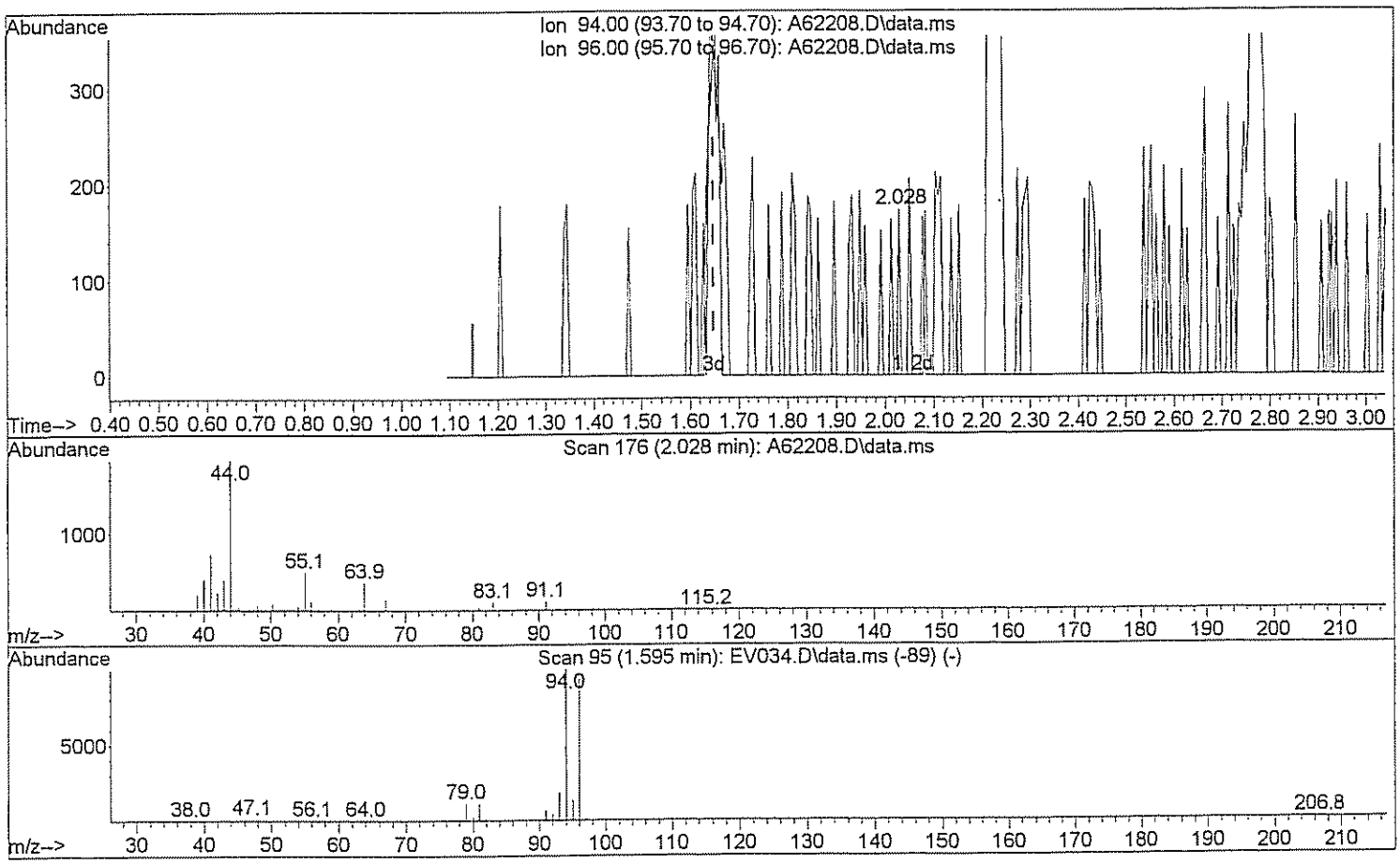
response 977

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	12.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(5) Bromomethane

2.028min (+0.380) 0.10 ug/L

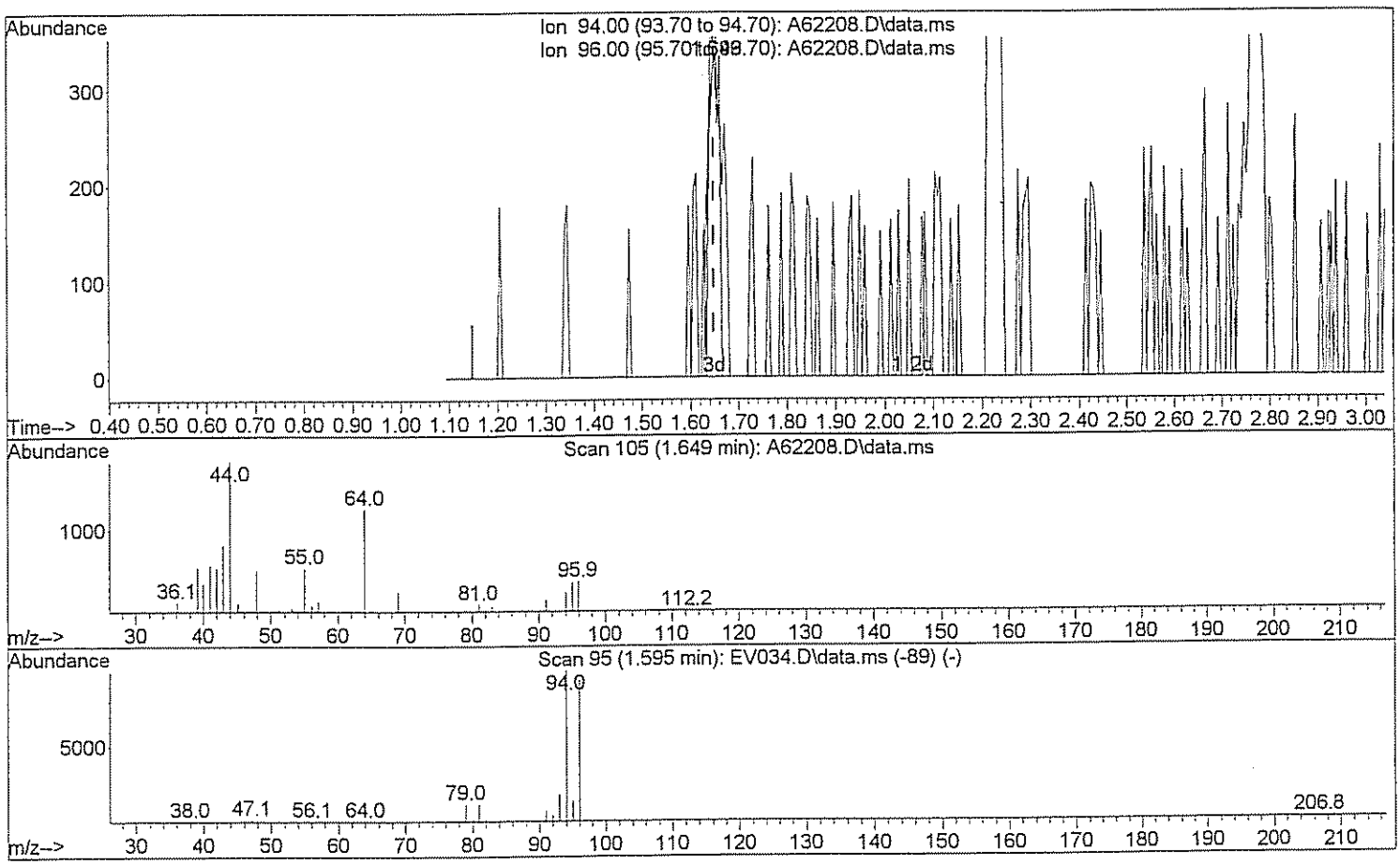
response 56

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	92.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(5) Bromomethane

1.649min (+0.000) 0.99 ug/L m Dm 3/12/09

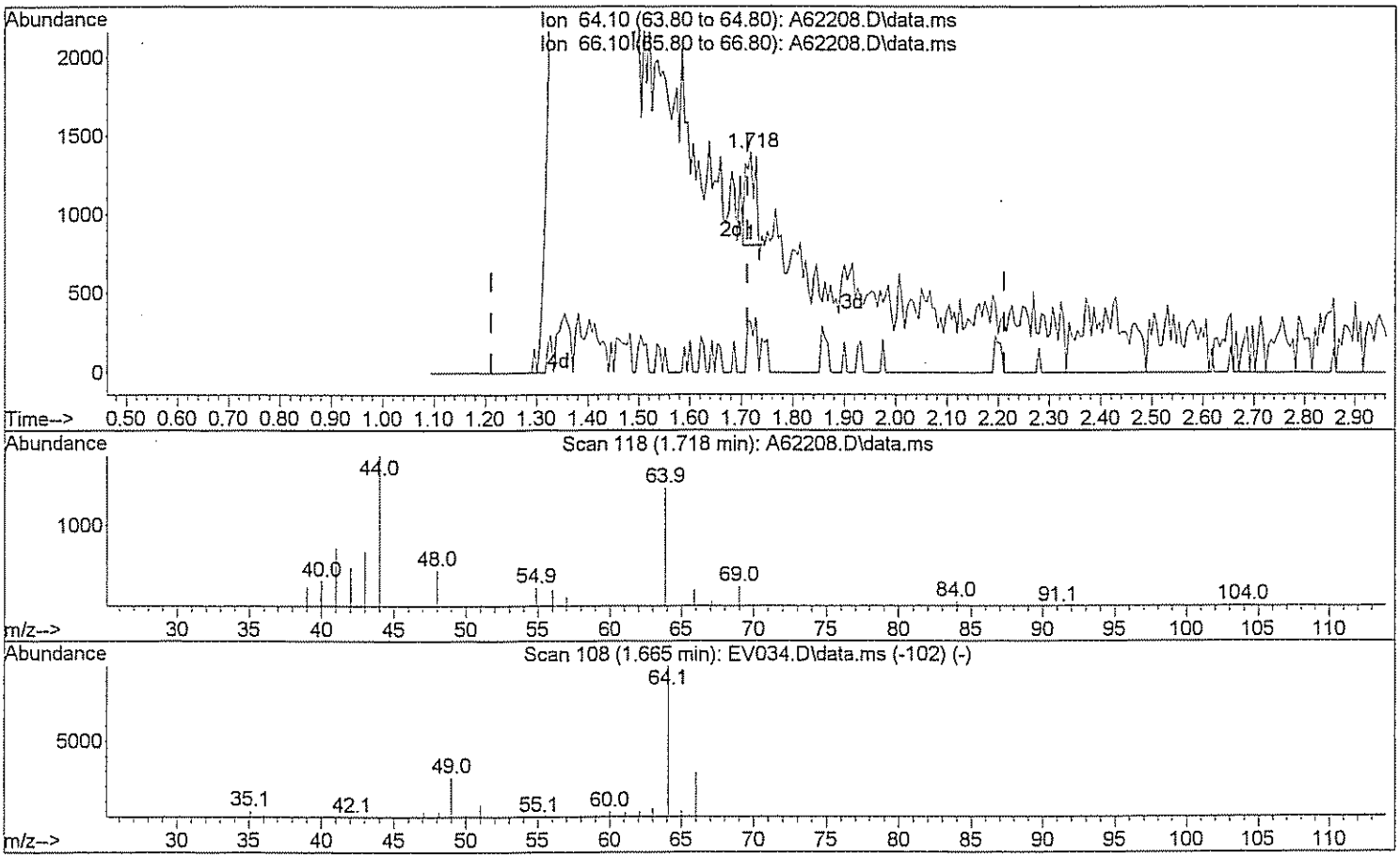
response 531

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	9.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(6) Chloroethane

1.718min (+0.006) 0.75 ug/L

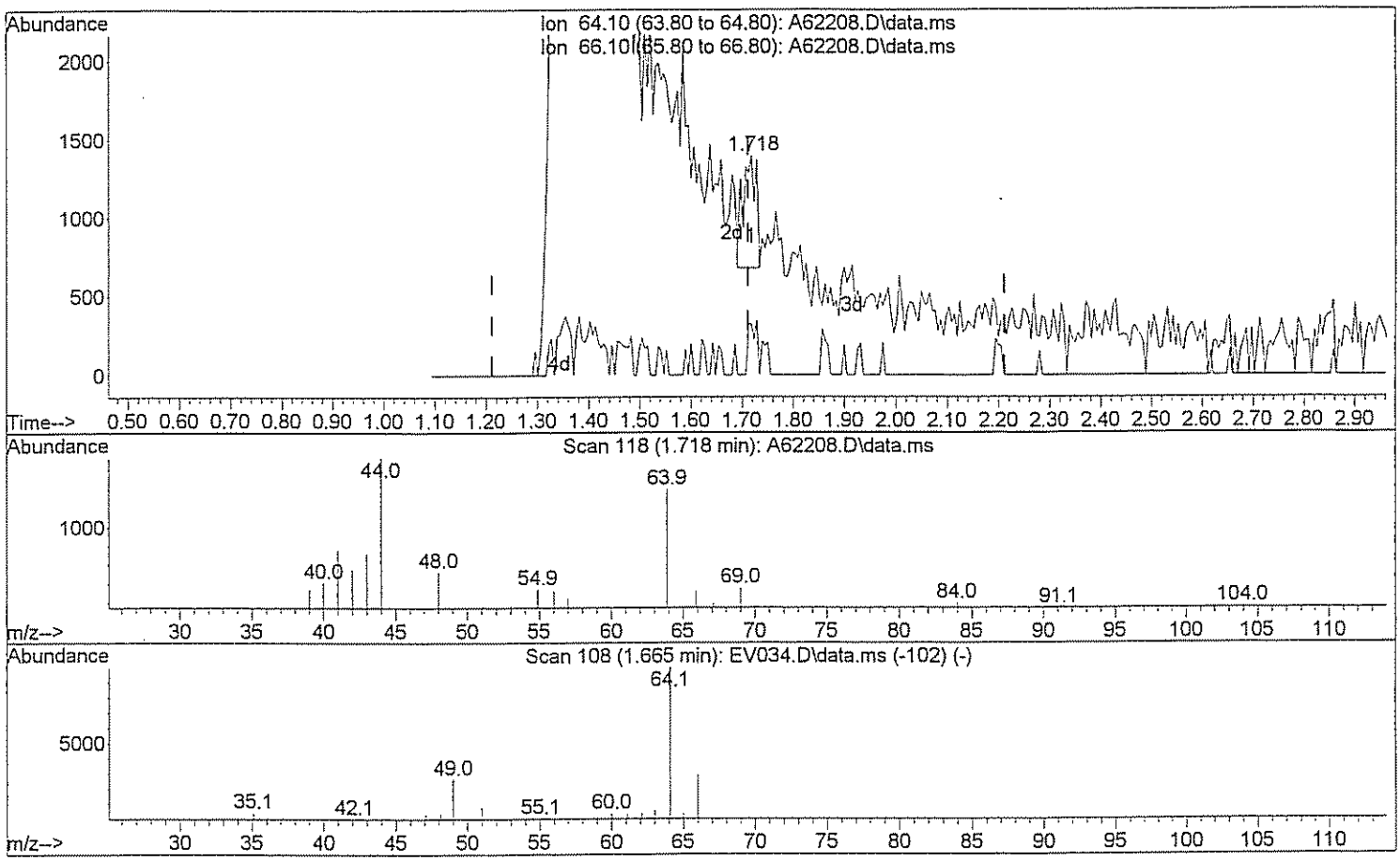
response 770

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	50.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(6) Chloroethane

1.718min (+0.006) 1.22 ug/L m Sm 3/12/09

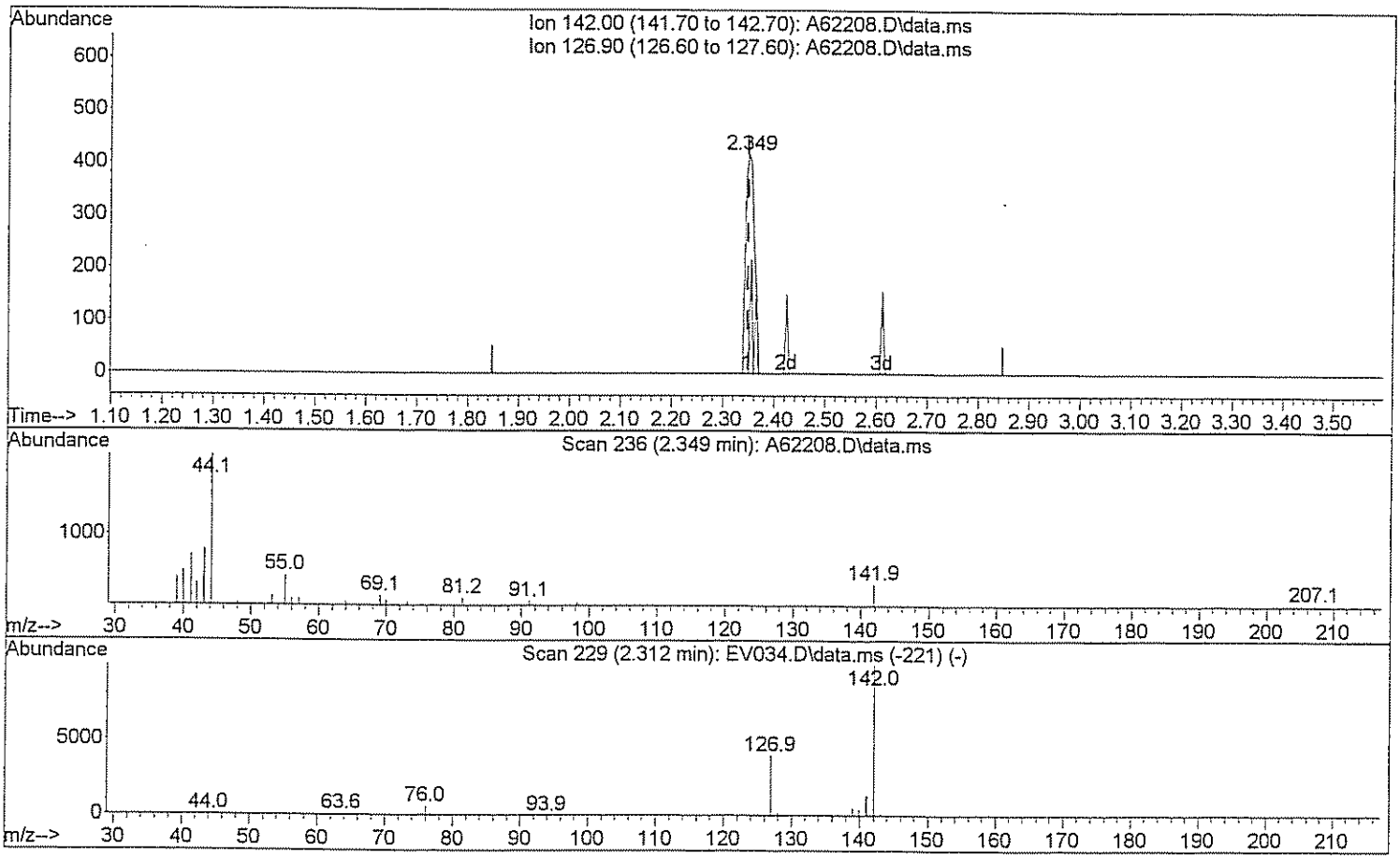
response 1257

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	30.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(13) Iodomethane

2.349min (+0.000) 0.37 ug/L

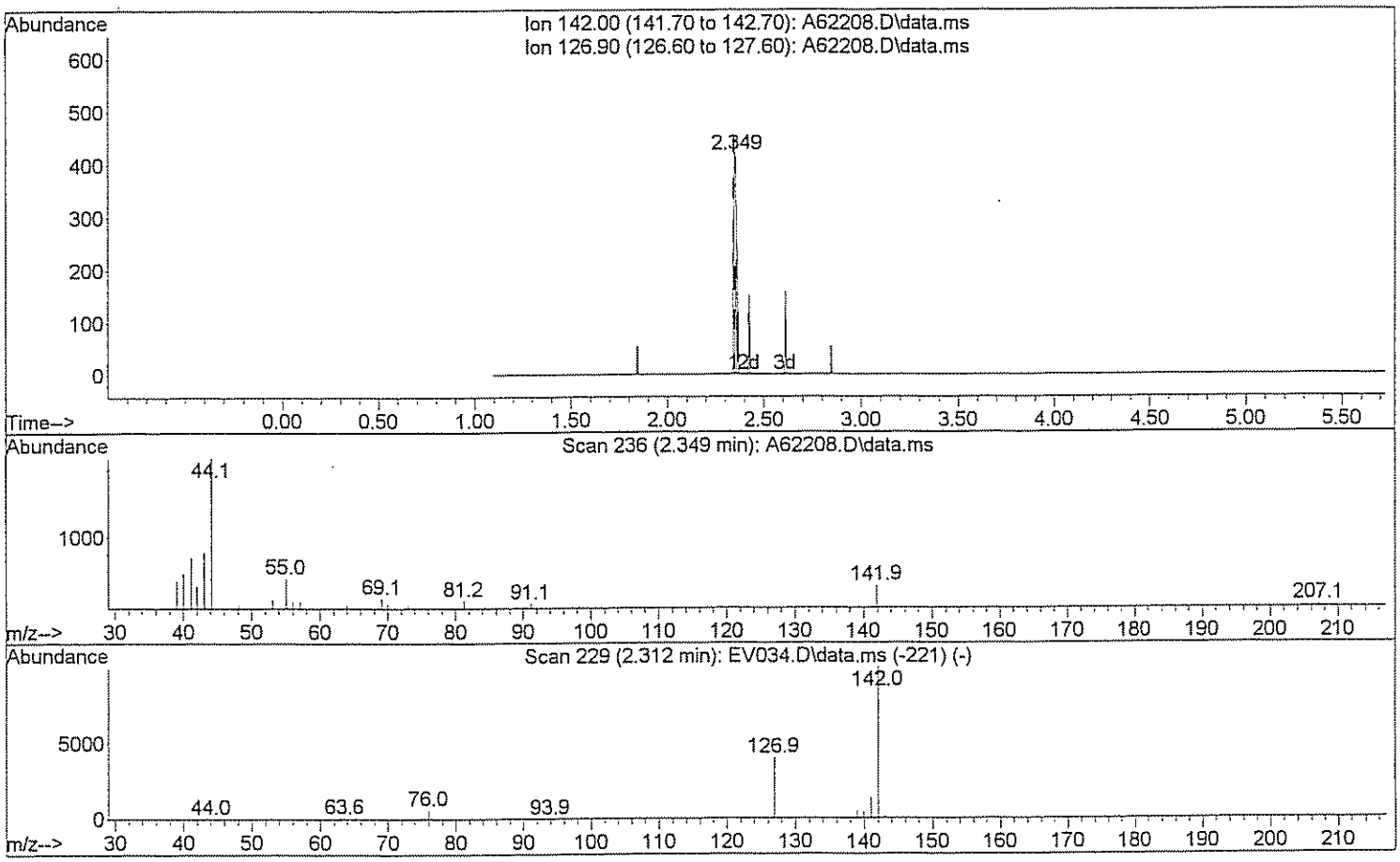
response 510

Ion	Exp%	Act%
142.00	100	100
126.90	40.70	23.73#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(13) Iodomethane

2.349min (+0.000) 0.45 ug/L m

Lm 3/12/09

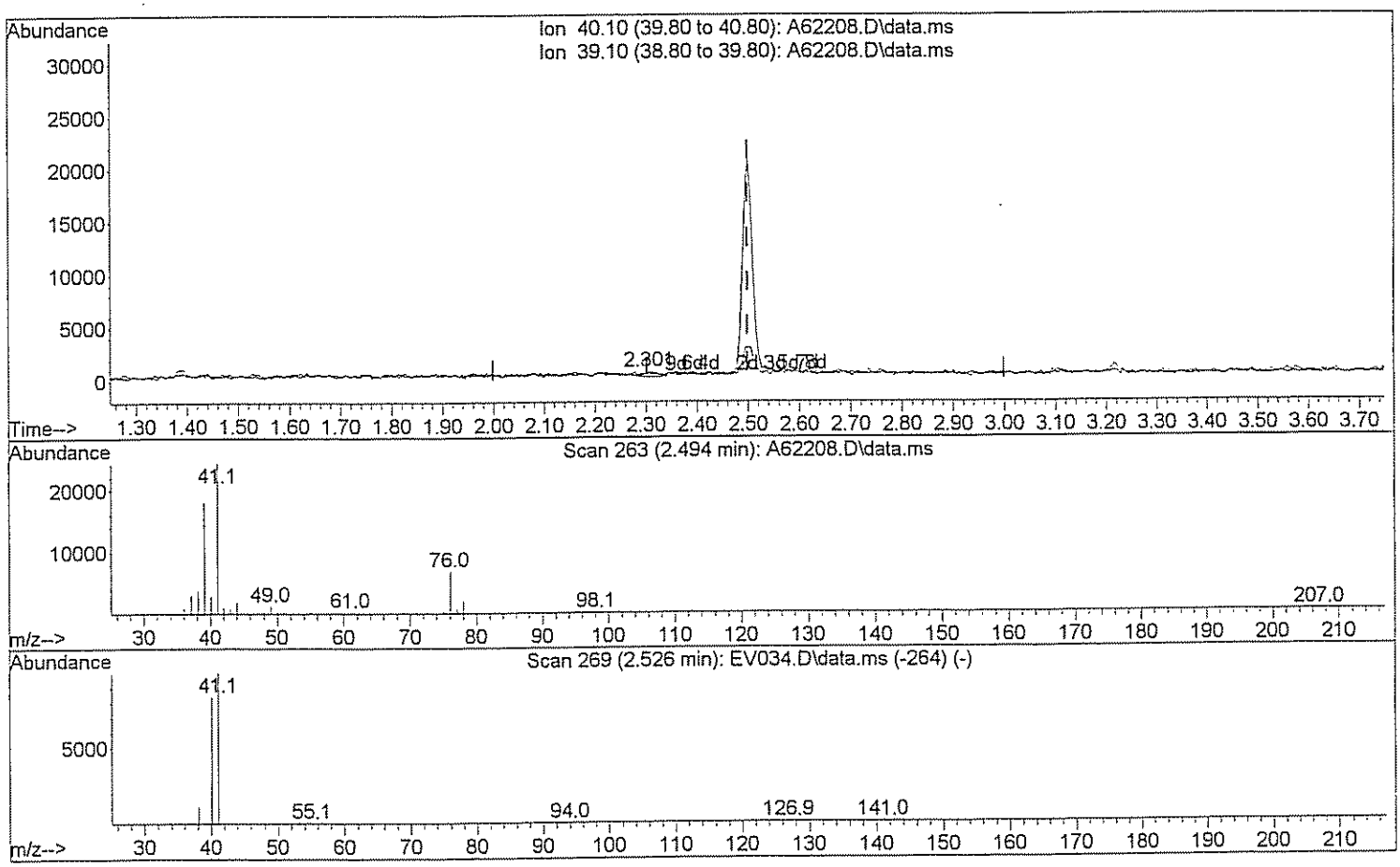
response 610

Ion	Exp%	Act%
142.00	100	100
126.90	40.70	19.84#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(14) Acetonitrile

2.301min (-0.198) 0.91 ug/L

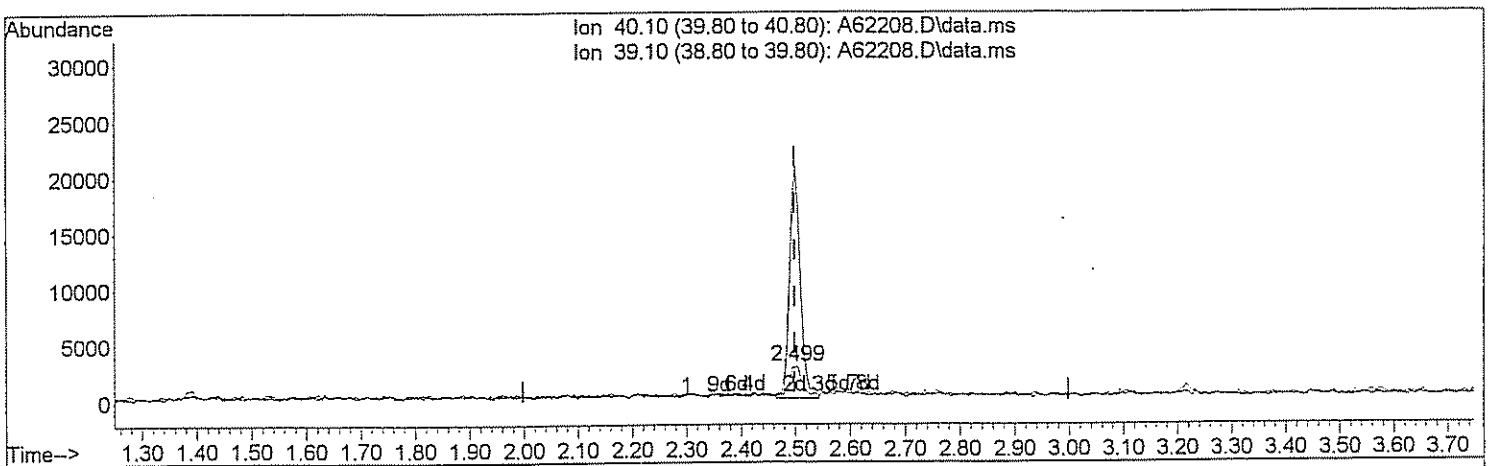
response 701

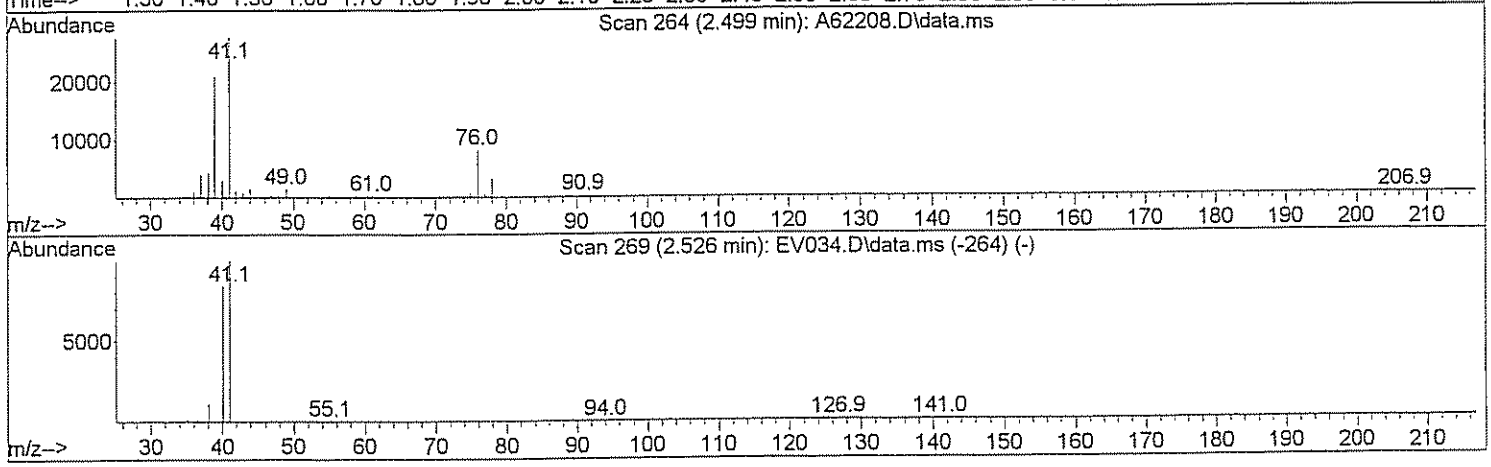
Ion	Exp%	Act%
40.10	100	100
39.10	111.20	132.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration





TIC: A62208.D\data.ms

(14) Acetonitrile

2.499min (+0.000) 6.66 ug/L m JW 3/12/09

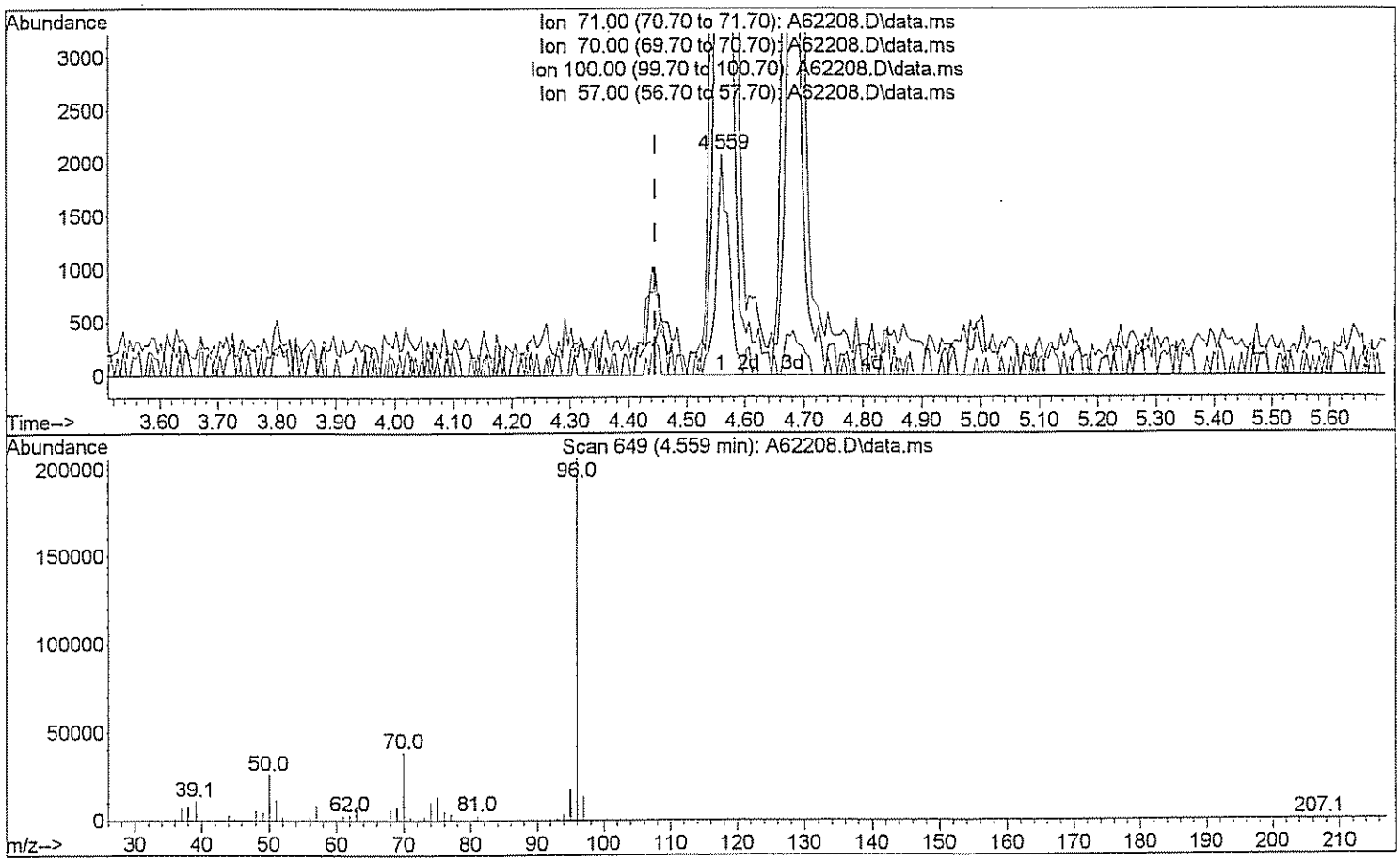
response 5117

Ion	Exp%	Act%
40.10	100	100
39.10	111.20	18.17#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(26) n-Heptane (T)

4.559min (+0.113) 2.59 ug/L

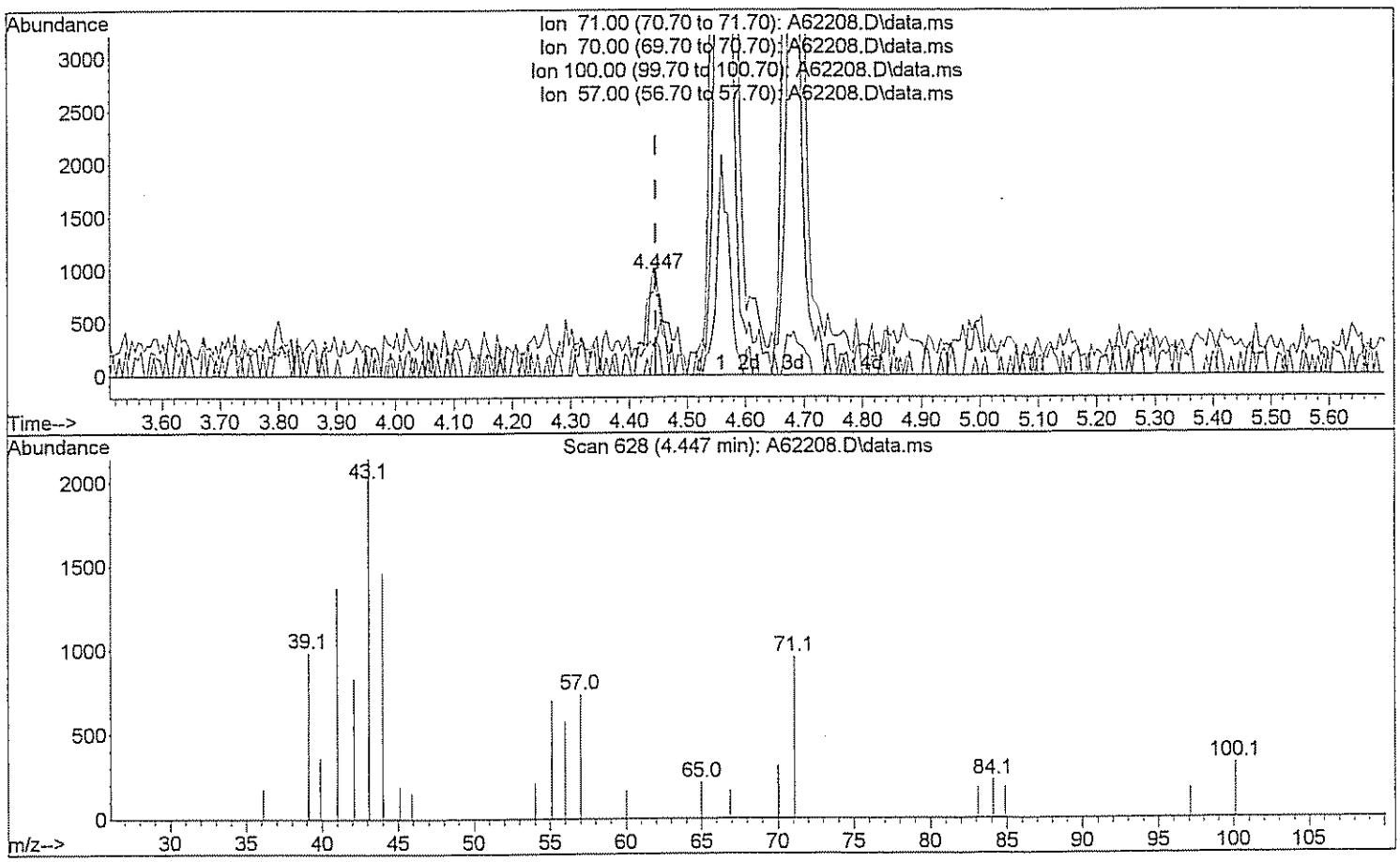
response 3161

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2123.16#
100.00	60.00	0.00#
57.00	34.00	507.09#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(26) n-Heptane (T)
4.447min (+0.000) 1.44 ug/L m
response 1757

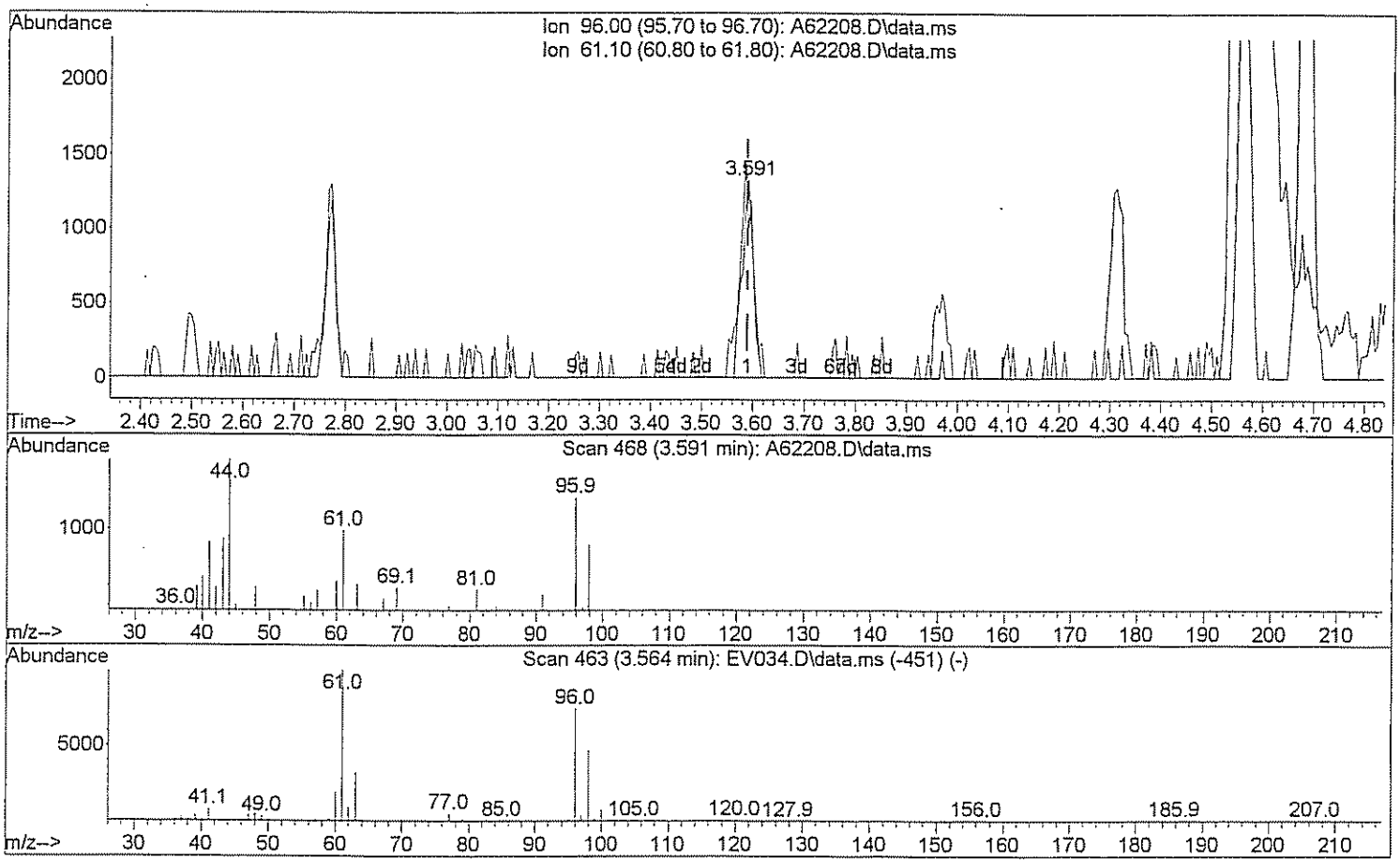
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	3819.75#
100.00	60.00	0.00#
57.00	34.00	912.29#

3/12/09

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (+0.000) 1.33 ug/L

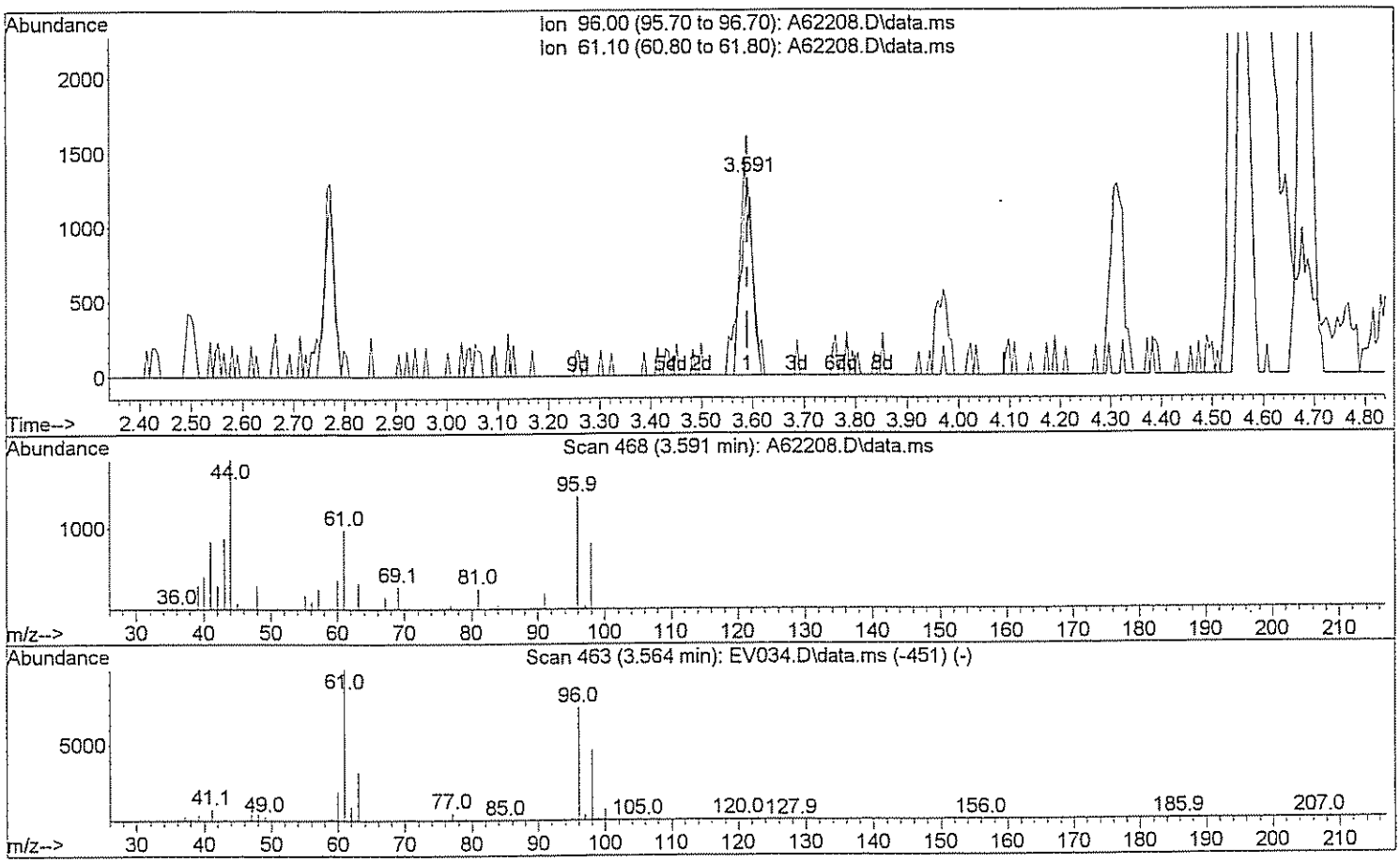
response 2179

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	114.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (+0.000) 3.64 ug/L m Sm 3/12/09

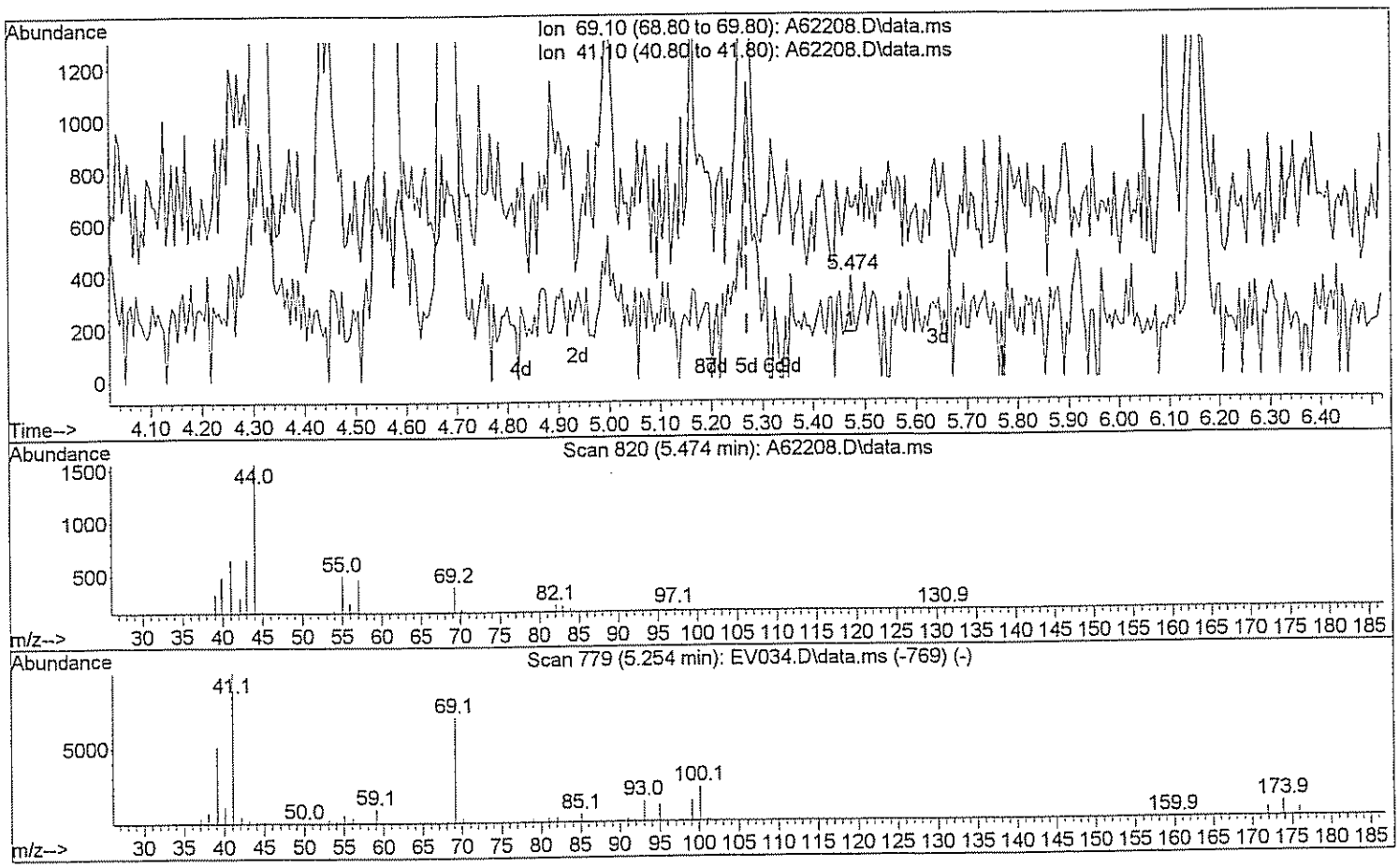
response 5955

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	41.96#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(48) Methyl methacrylate

5.474min (+0.203) 0.08 ug/L

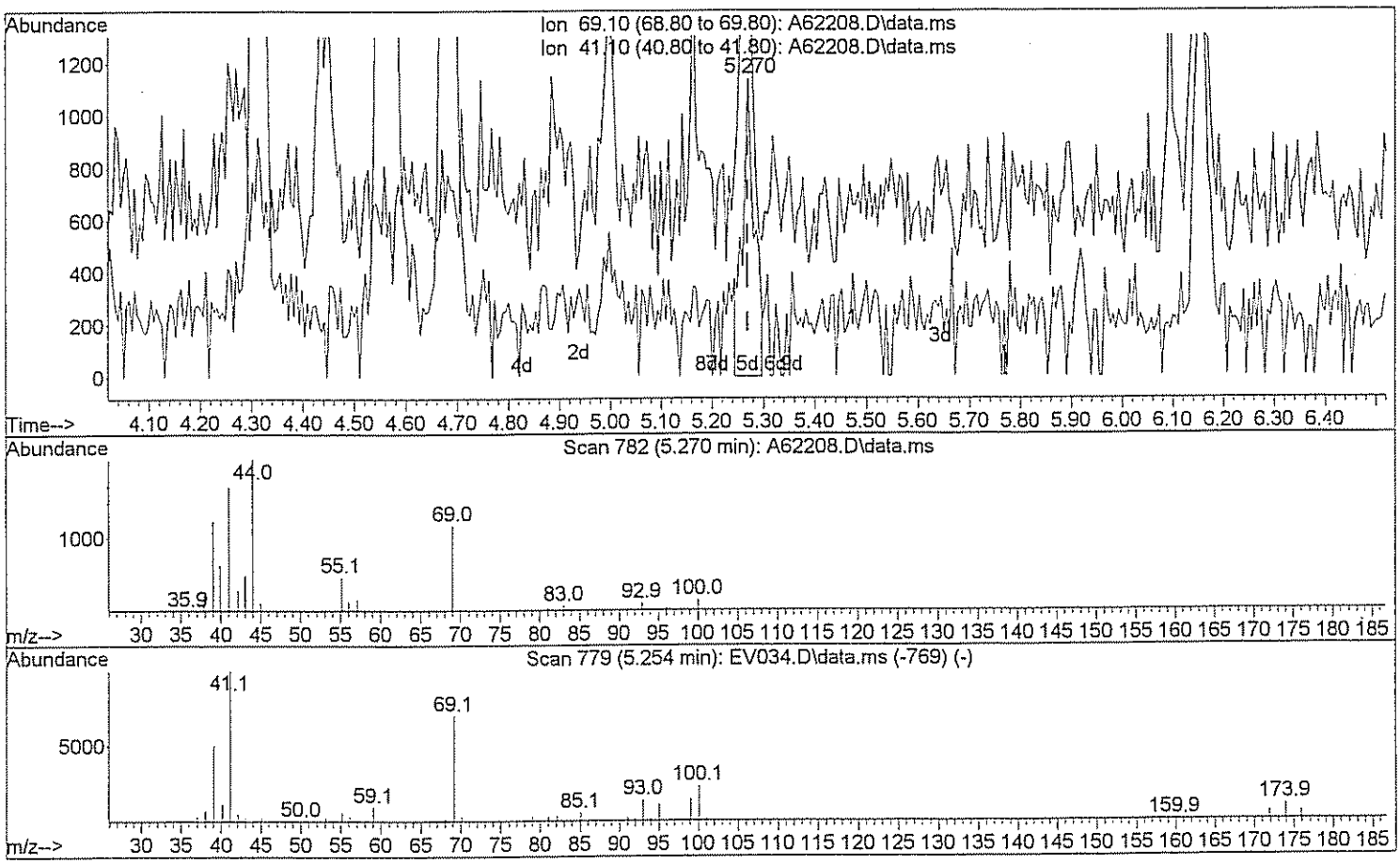
response 102

Ion	Exp%	Act%
69.10	100	100
41.10	141.20	156.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(48) Methyl methacrylate

5.270min (+0.000) 1.49 ug/L m 3/12/09

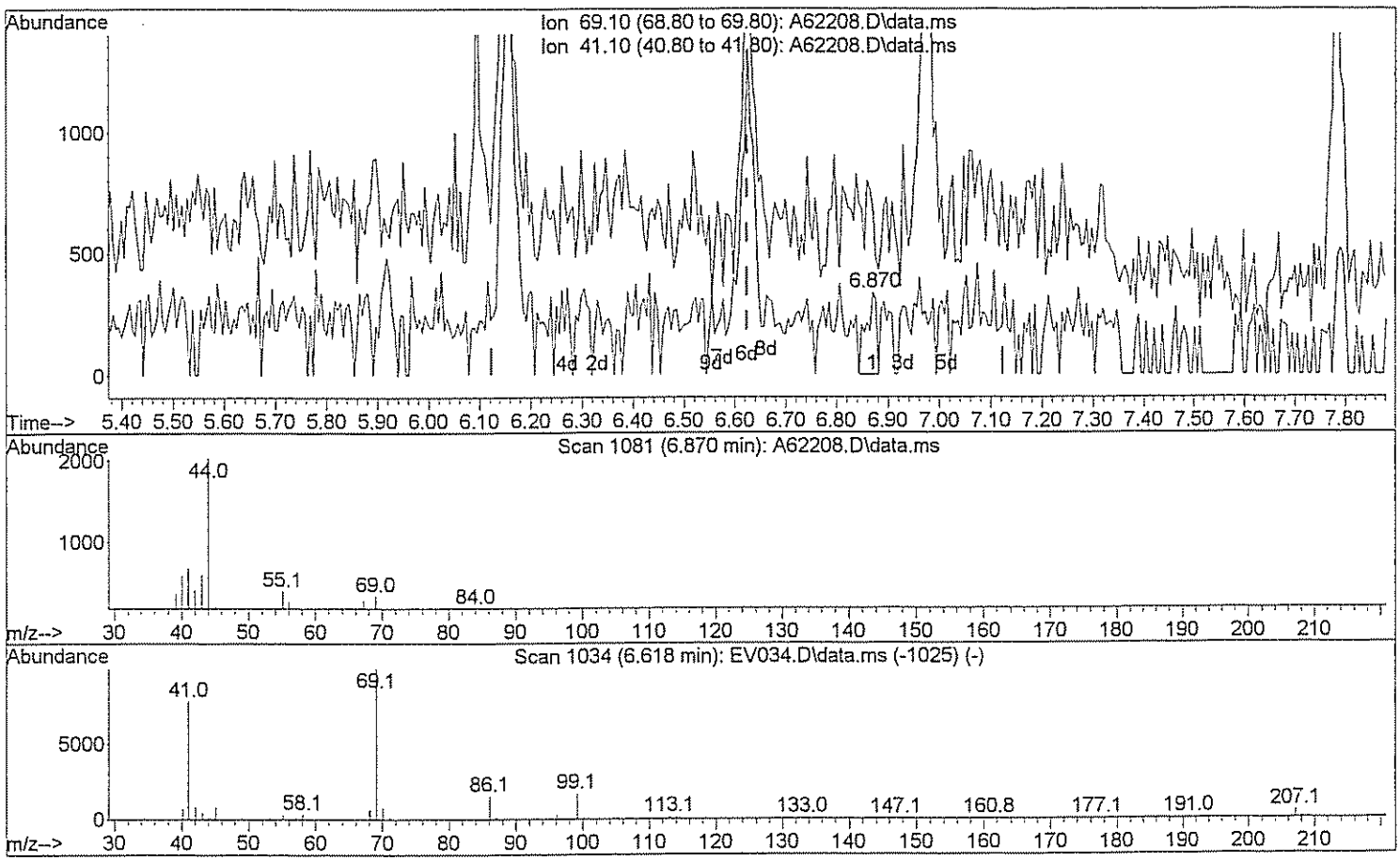
response 1862

Ion	Exp%	Act%
69.10	100	100
41.10	141.20	8.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(56) Ethyl methacrylate

6.870min (+0.246) 0.21 ug/L

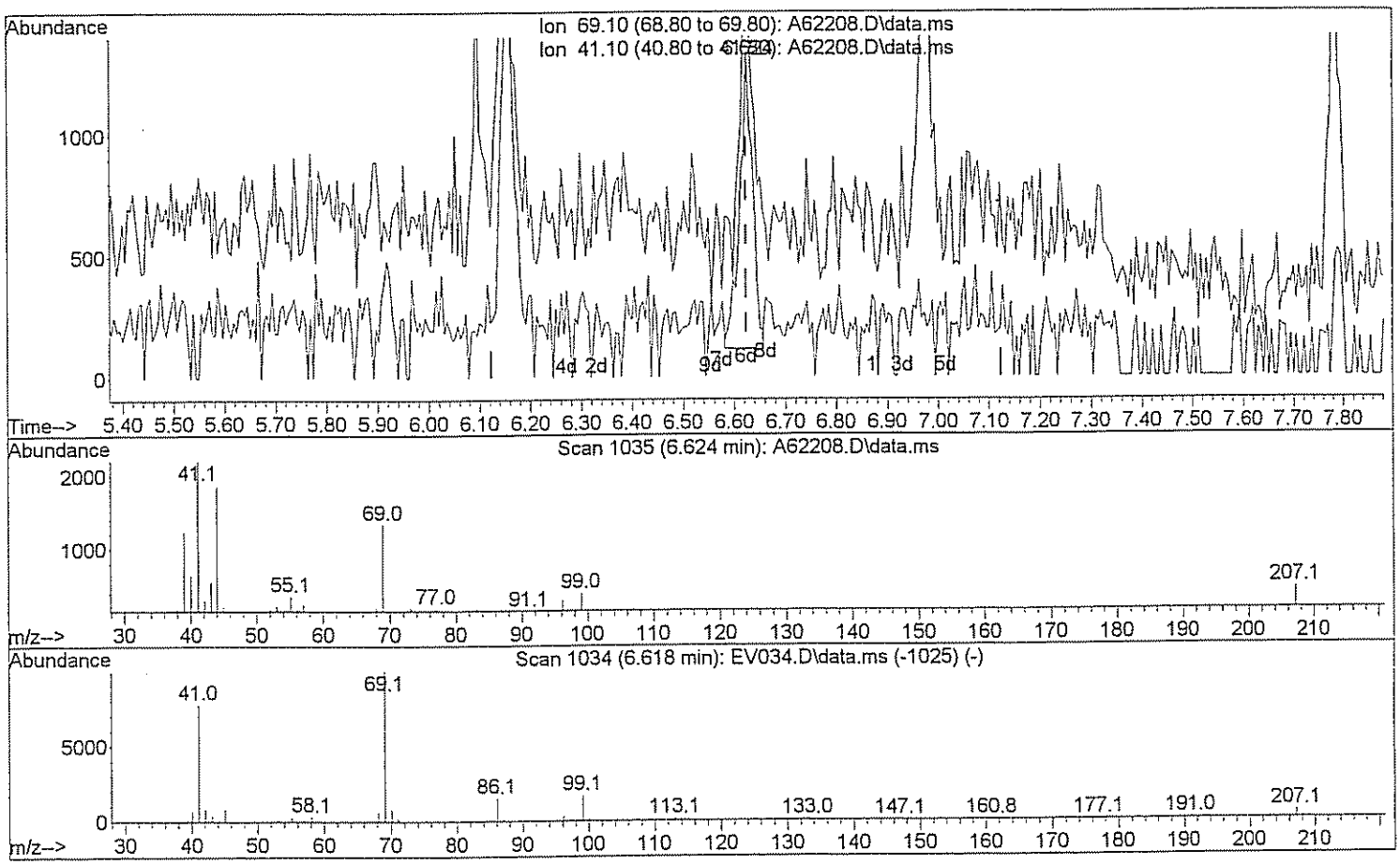
response 455

Ion	Exp%	Act%
69.10	100	100
41.10	77.10	70.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(56) Ethyl methacrylate

6.624min (+0.000) 1.00 ug/L m Jm 3/12/09

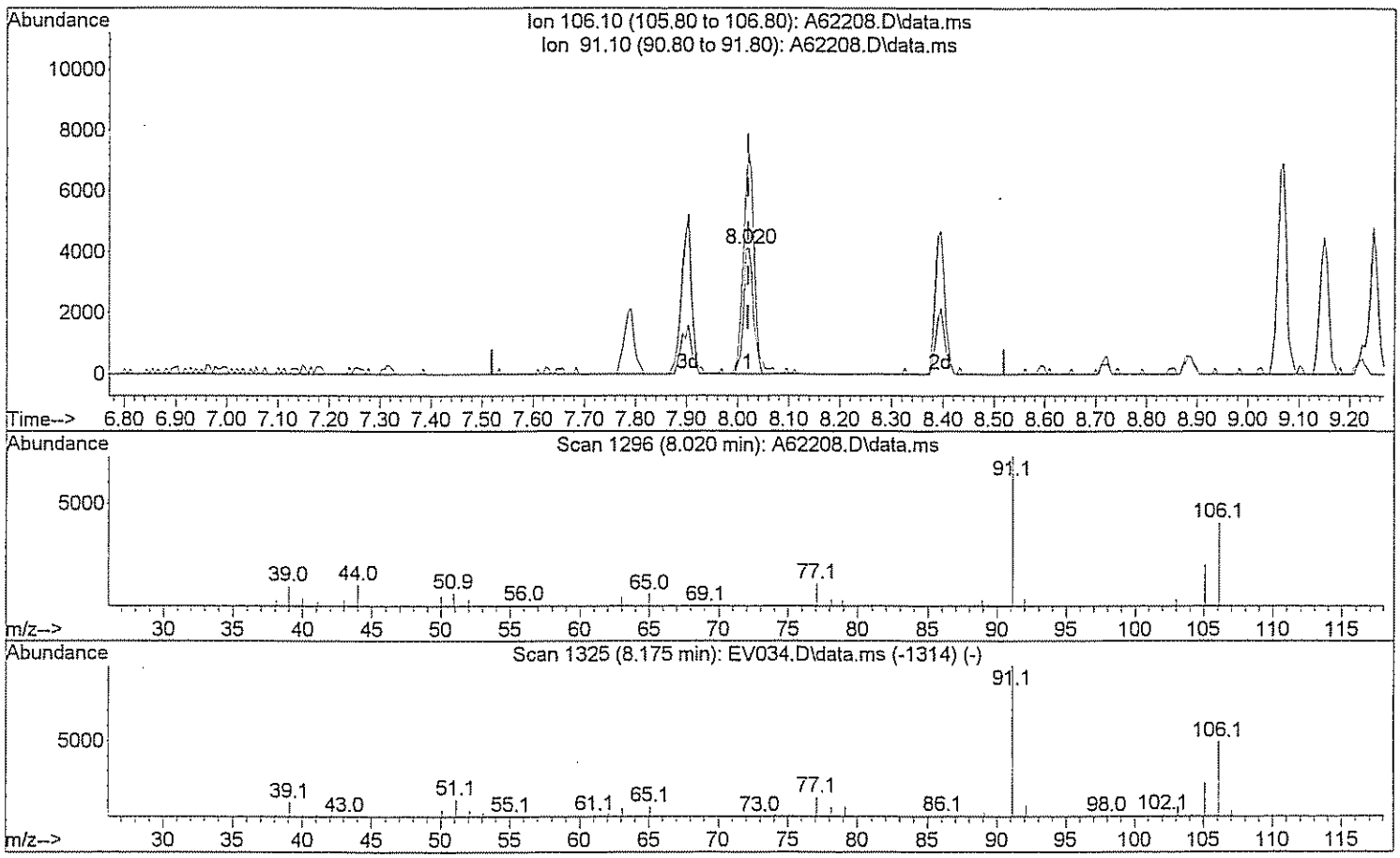
response 2131

Ion	Exp%	Act%
69.10	100	100
41.10	77.10	15.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(71) Xylene (Total)

8.020min (+0.000) 1.68 ug/L

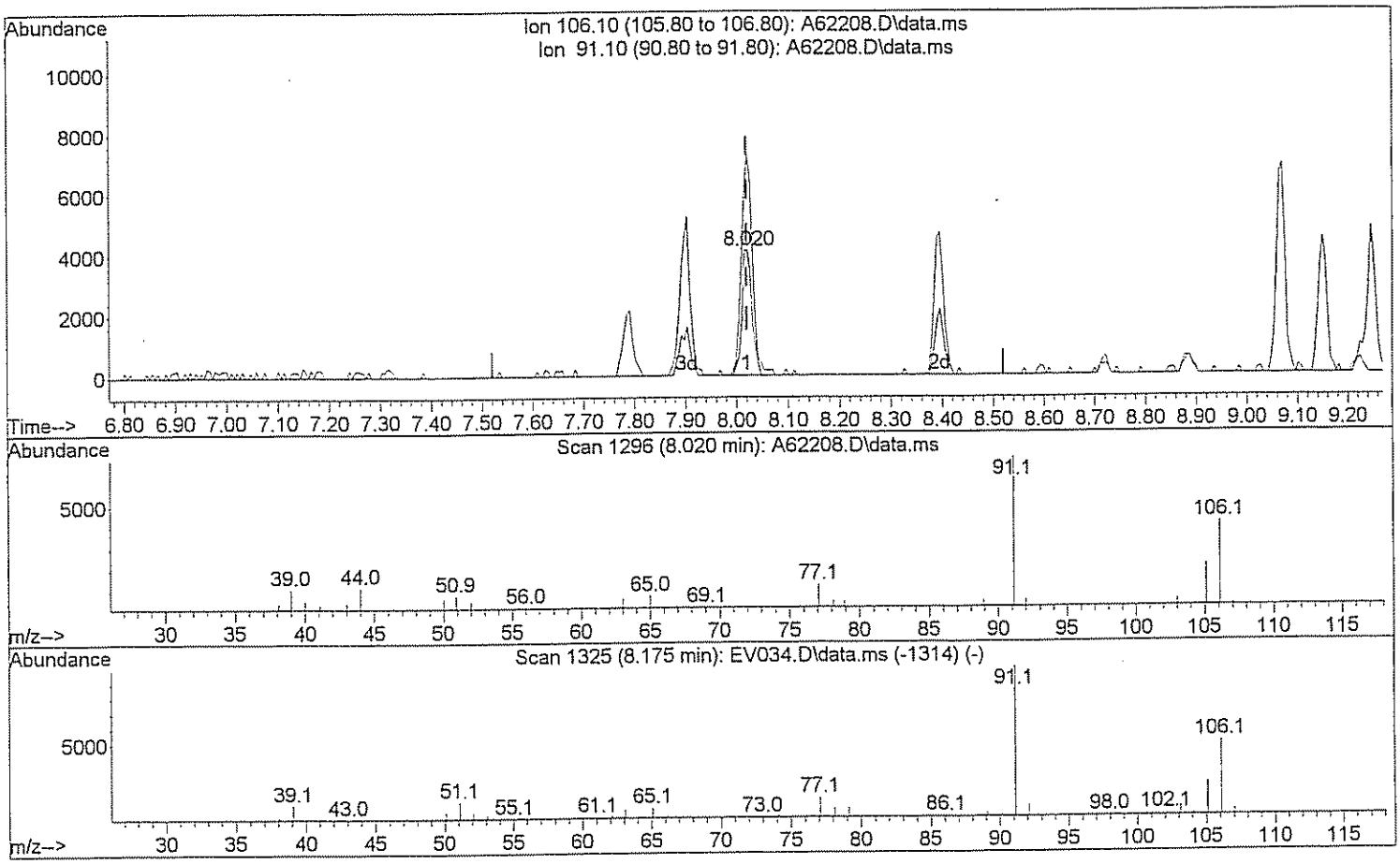
response 5561

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	196.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(71) Xylene (Total)

8.020min (+0.000) 2.47 ug/L m

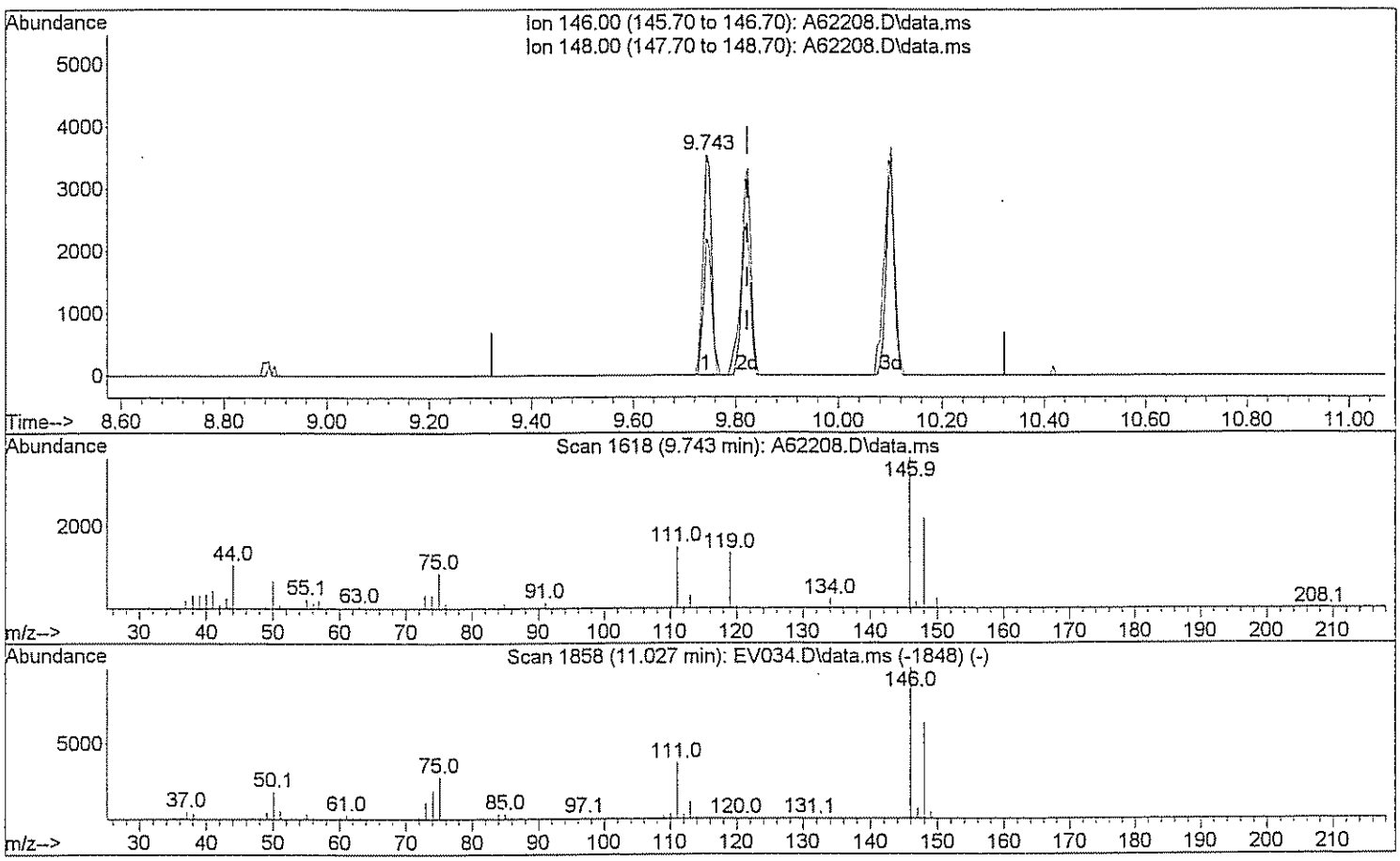
response 8155

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	133.78#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(90) 1,4-Dichlorobenzene

9.743min (-0.080) 0.87 ug/L

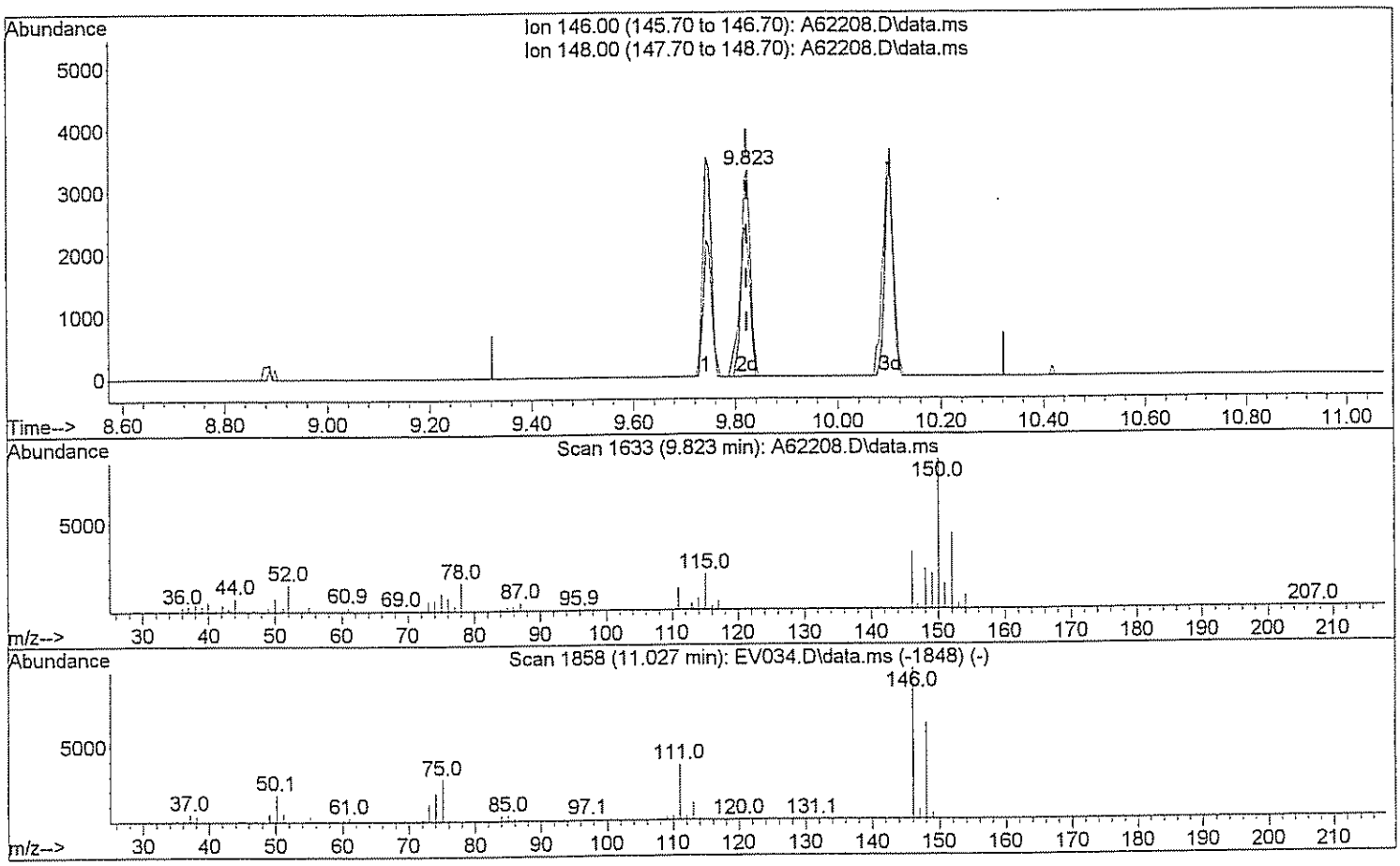
response 4018

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	61.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(90) 1,4-Dichlorobenzene

9.823min (+0.000) 0.87 ug/L m JW 3/12/09

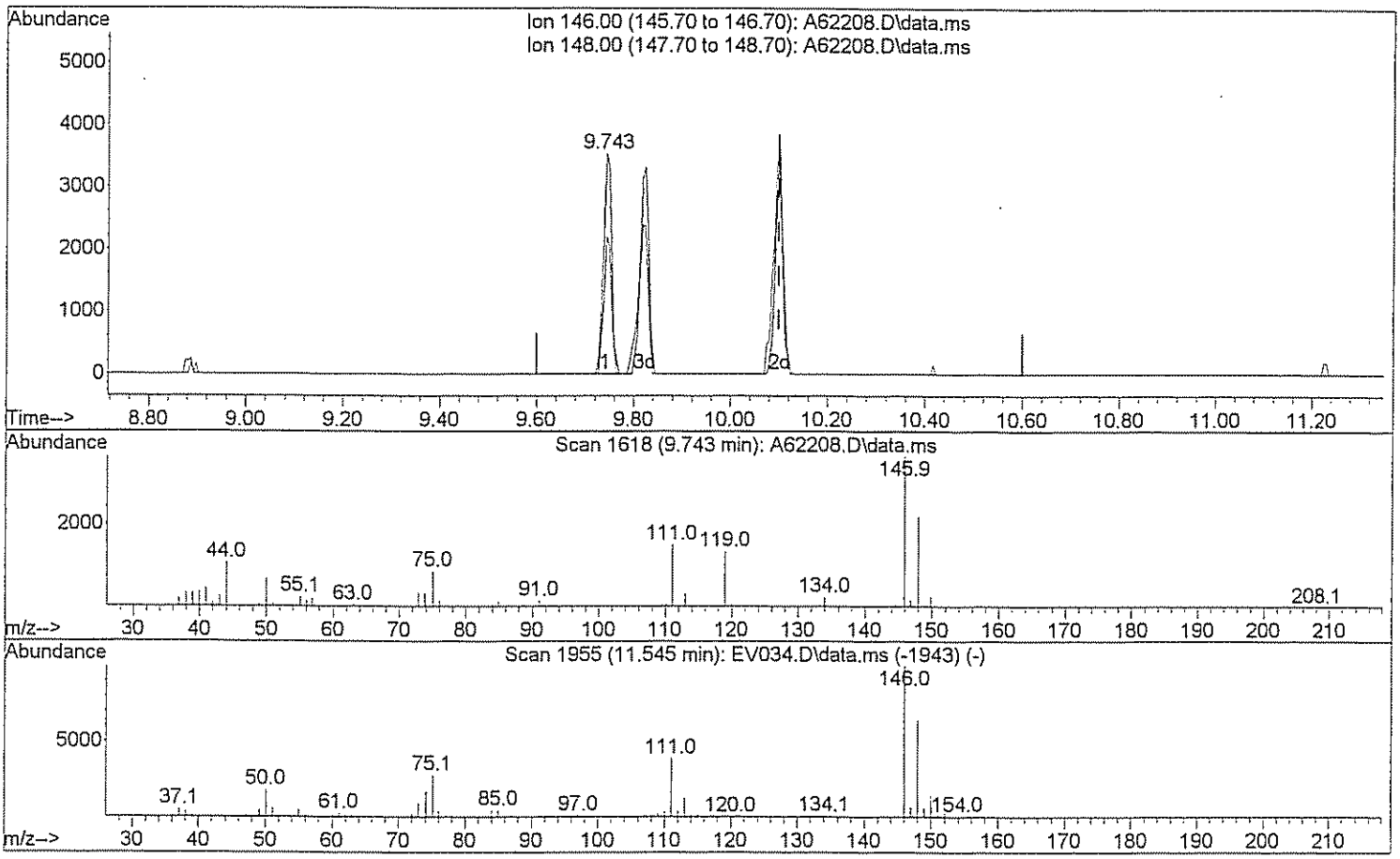
response 4003

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	61.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(92) 1,2-Dichlorobenzene

9.743min (-0.358) 0.91 ug/L

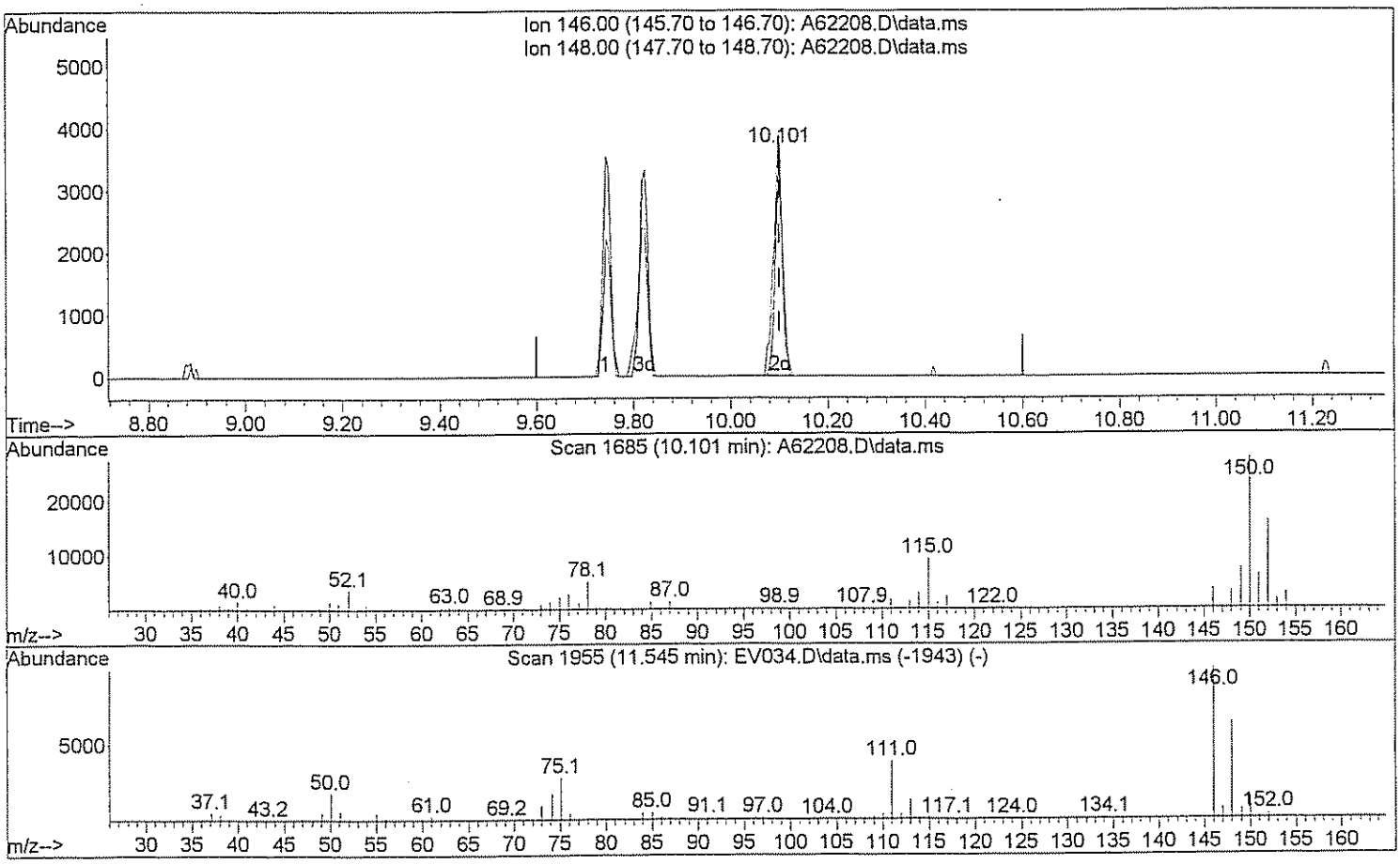
response 4018

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	61.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62208.D
Acq On : 10 Mar 2009 9:10
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 13:19:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:16:51 2009
Response via : Initial Calibration



TIC: A62208.D\data.ms

(92) 1,2-Dichlorobenzene

10.101min (+0.000) 0.92 ug/L m Sm 3/12/09

response 4028

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	61.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	343842	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.682	114	277412	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.779	117	261482	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	95705	50.37	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.74%				
53) Toluene-d8	6.148	98	315476	51.97	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.94%				
75) 4-Bromofluorobenzene	8.881	95	129887	49.99	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.98%				
91) 1,2-Dichlorobenzene-d4	10.085	152	141310	49.56	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 99.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.210	85	3830	4.98	ug/L	#	64
3) Chloromethane	1.338	50	4413m	3.48	ug/L		
4) Vinyl chloride	1.418	62	4812	3.39	ug/L	#	1
5) Bromomethane	1.648	94	1858m	3.59	ug/L		
6) Chloroethane	1.713	64	4204	4.35	ug/L		99
7) Trichlorofluoromethane	1.862	101	8446	3.83	ug/L		98
8) Ethyl Ether	2.060	59	6370	4.97	ug/L		93
9) Freon 113	2.199	101	5527	4.79	ug/L		82
10) Acrolein	2.210	56	9441	33.91	ug/L	#	82
11) Tert-Butyl alcohol	2.681	59	10480	78.91	ug/L	#	47
12) 1,1-Dichloroethene	2.226	96	6425	5.24	ug/L		83
13) Iodomethane	2.349	142	3751	2.74	ug/L		99
14) Acetonitrile	2.499	40	23368	30.78	ug/L	#	1
15) Methylene chloride	2.606	84	9294	6.28	ug/L		91
16) Trans-1,2-dichloroethene	2.772	96	6225	4.60	ug/L		81
17) Isopropyl ether	3.104	45	26332	4.83	ug/L		94
18) 1,1-Dichloroethane	3.125	63	11511	4.59	ug/L		100
19) Acetone	2.312	43	5155	9.89	ug/L		95
20) Methyl Acetate	4.270	43	5433	3.83	ug/L	#	100
21) MTBE	2.756	73	19815	4.97	ug/L		100
22) Carbon disulfide	2.376	76	26231	6.64	ug/L		100
24) Acrylonitrile	2.847	53	11962	24.97	ug/L		98
25) Chloroprene	3.157	53	11999	5.37	ug/L		93
26) n-Heptane	4.446	71	5639m	5.08	ug/L		
27) 2,2-Dichloropropane	3.558	77	8708	4.26	ug/L	#	76
28) Cis-1,2-dichloroethene	3.590	96	7602	4.82	ug/L		100

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	14539m	9.67 ug/L	
30) Propionitrile	3.746	54	10988	47.71 ug/L	97
31) Bromochloromethane	3.788	128	3461	4.40 ug/L	97
32) Tetrahydrofuran	3.799	72	1843	4.48 ug/L #	22
33) Chloroform	3.847	83	12242	4.52 ug/L	100
34) Cyclohexane	3.943	56	11816	4.85 ug/L #	89
35) 1,1,1-Trichloroethane	3.970	97	9718	4.49 ug/L	99
36) Carbon tetrachloride	4.066	117	5862	3.18 ug/L	97
37) Methylcyclohexane	4.997	83	10799	4.61 ug/L	97
38) Isobutyl Alcohol	4.441	43	9783	94.55 ug/L	93
41) 2-Butanone	3.622	43	10170	10.64 ug/L	93
42) 1,1-Dichloropropene	4.109	75	8234	4.43 ug/L	100
43) Vinyl Acetate	3.146	43	8515	4.10 ug/L	99
44) Benzene	4.291	78	28172	4.74 ug/L	100
45) 1,2-Dichloroethane	4.382	62	8918	4.59 ug/L #	84
46) Trichloroethene	4.890	95	8052	5.45 ug/L	99
47) 1,2-Dichloropropane	5.163	63	7176	4.49 ug/L	95
48) Methyl methacrylate	5.270	69	5527	4.84 ug/L	91
49) Dibromomethane	5.286	93	4213	4.23 ug/L	98
50) Bromodichloromethane	5.436	83	8163	3.96 ug/L	100
51) 2-Chloroethylvinyl ether	5.778	63	19642	18.04 ug/L	97
52) Cis-1,3-dichloropropene	5.918	75	9392	3.58 ug/L	98
54) Toluene	6.217	92	15979	4.77 ug/L	88
55) Trans-1,3-dichloropropene	6.570	75	9064	4.18 ug/L	95
56) Ethyl methacrylate	6.624	69	9749	5.06 ug/L	91
57) 1,1,2-Trichloroethane	6.773	83	5523	5.20 ug/L	98
59) 4-Methyl-2-pentanone	6.099	43	15998	9.10 ug/L #	89
60) 2-Hexanone	7.068	43	11298	9.48 ug/L	95
61) Tetrachloroethene	6.800	166	6581	4.49 ug/L	97
62) 1,3-Dichloropropane	6.977	76	9963	4.56 ug/L	98
63) Dibromochloromethane	7.185	129	6365	4.04 ug/L	98
64) 1,2-Dibromoethane	7.314	107	5992	4.30 ug/L	97
65) 1-Chlorohexane	7.790	91	10540	5.17 ug/L	91
66) Chlorobenzene	7.811	112	19254	4.25 ug/L	90
67) 1,1,1,2-Tetrachloroethane	7.908	131	5918	3.43 ug/L #	18
68) Ethylbenzene	7.897	91	33493	4.45 ug/L	97
69) m,p-Xylene	8.020	106	27480	8.76 ug/L	88
70) o-Xylene	8.394	106	13980	4.41 ug/L	92
71) Xylene (Total)	8.020	106	41457m	13.09 ug/L	
72) Styrene	8.421	104	22867	4.33 ug/L	94
73) Bromoform	8.598	173	3822	3.41 ug/L	90
74) Isopropylbenzene	8.715	105	29480	4.20 ug/L	98

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

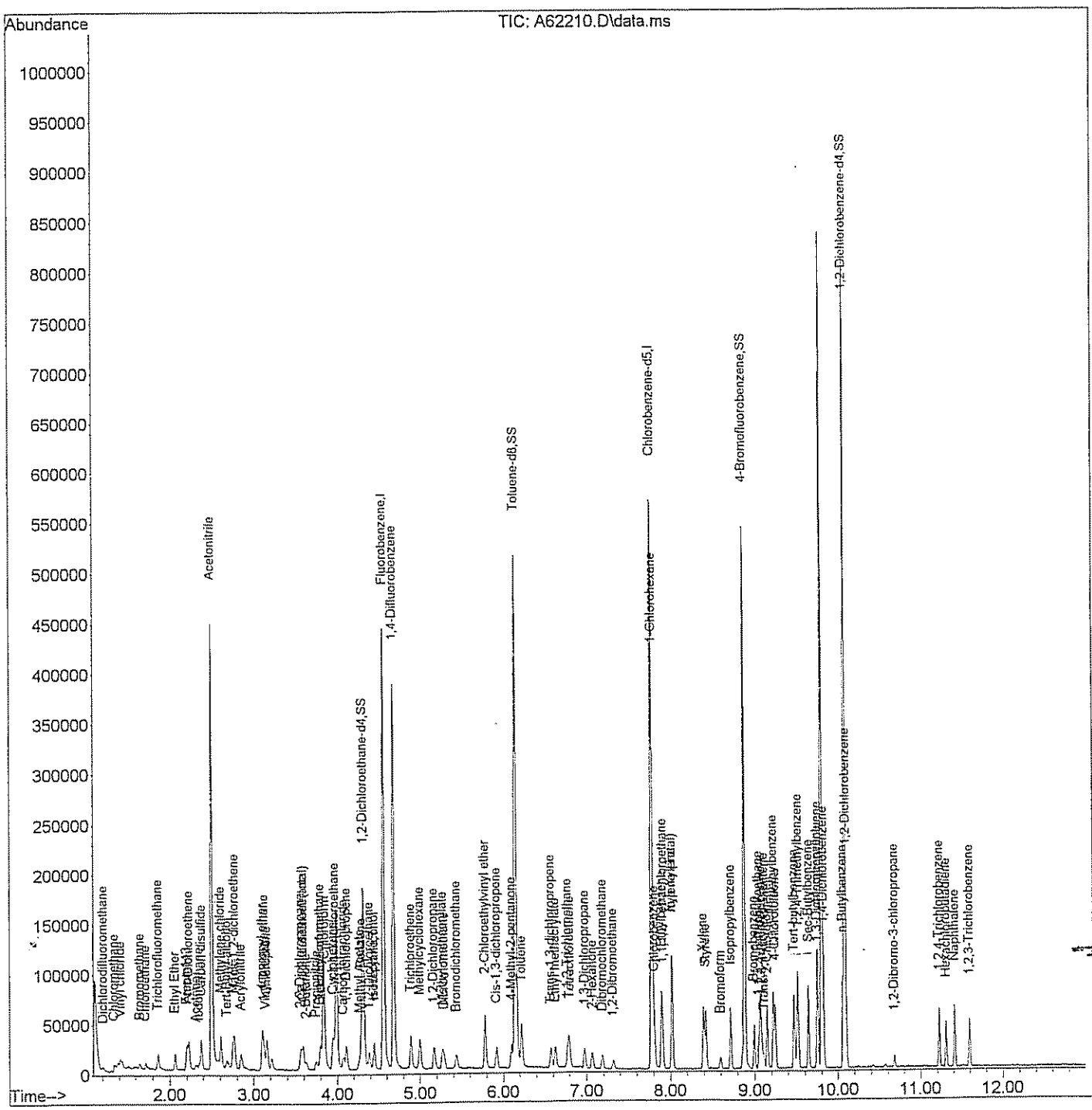
Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) Bromobenzene	8.994	156	8840	4.56	ug/L		97
77) 1,1,2,2-Tetrachloroethane	9.047	83	9148	4.47	ug/L		91
78) 1,2,3-Trichloropropane	9.085	110	3089	5.08	ug/L		89
79) n-Propylbenzene	9.068	91	41149	4.35	ug/L		98
80) Trans-1,4-dichloro-2-b...	9.111	53	2390	3.81	ug/L	#	23
81) 2-Chlorotoluene	9.154	126	8985	4.44	ug/L		86
82) 4-Chlorotoluene	9.245	126	9326	4.40	ug/L		98
83) 1,3,5-Trimethylbenzene	9.224	105	29829	4.07	ug/L		93
84) Tert-butylbenzene	9.470	119	26494	4.06	ug/L		93
86) 1,2,4-Trimethylbenzene	9.518	105	31761	4.18	ug/L		96
87) Sec-Butylbenzene	9.641	105	42313	4.23	ug/L		99
88) 1,3-Dichlorobenzene	9.743	146	18398	4.26	ug/L		100
89) 4-Isopropyltoluene	9.753	119	34679	3.90	ug/L		98
90) 1,4-Dichlorobenzene	9.823	146	18842	4.36	ug/L		97
92) 1,2-Dichlorobenzene	10.101	146	17699m	4.30	ug/L		
93) n-Butylbenzene	10.058	91	34955	4.33	ug/L		96
94) 1,2-Dibromo-3-chloropr...	10.679	75	1881	4.46	ug/L		85
95) 1,2,4-Trichlorobenzene	11.224	180	12168	4.43	ug/L		99
96) Hexachlorobutadiene	11.305	225	5120	4.38	ug/L		95
97) Naphthalene	11.412	128	35867	4.70	ug/L		100
98) 1,2,3-Trichlorobenzene	11.594	180	10919	4.46	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

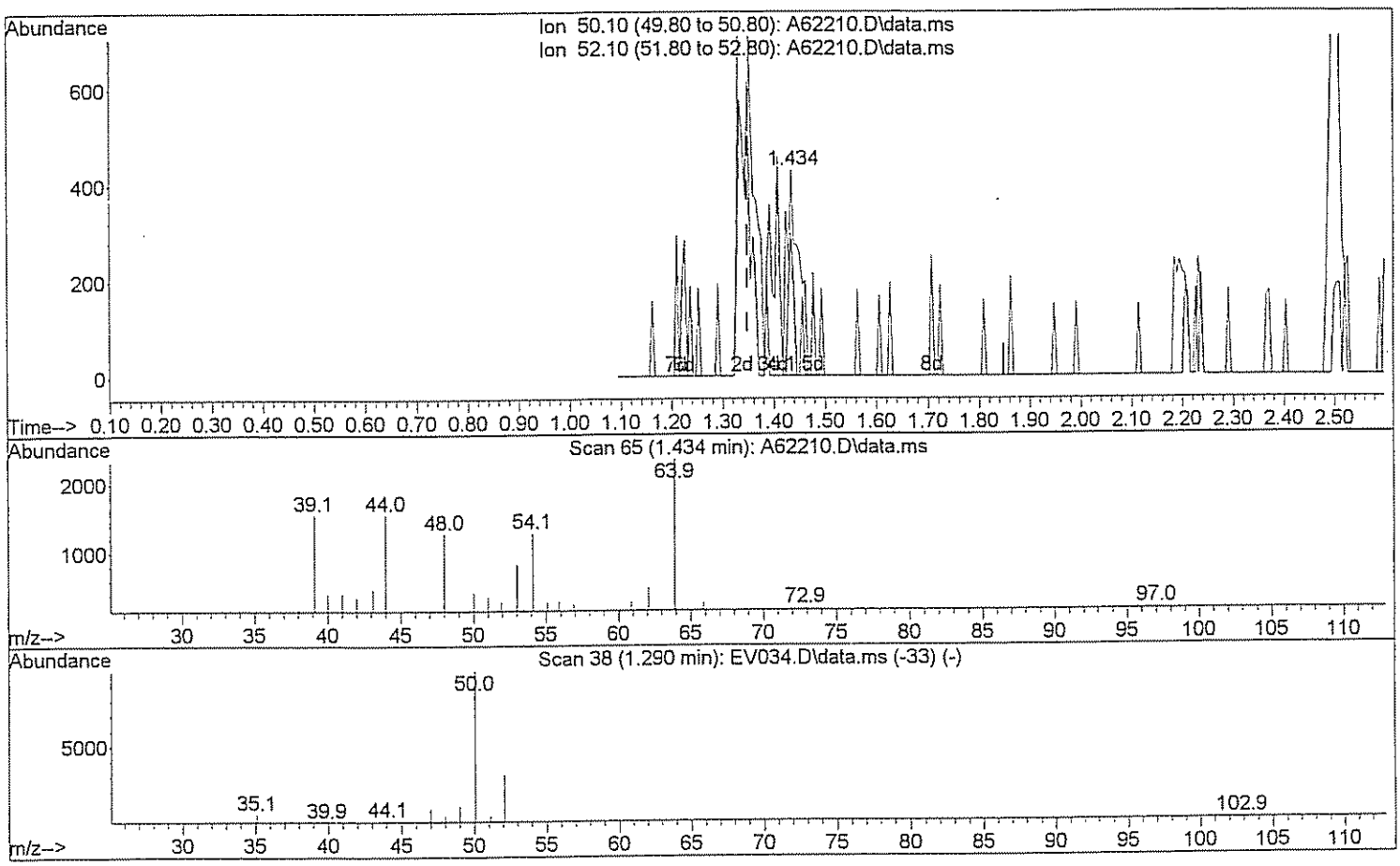
Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(3) Chloromethane

1.434min (+0.085) 0.56 ug/L

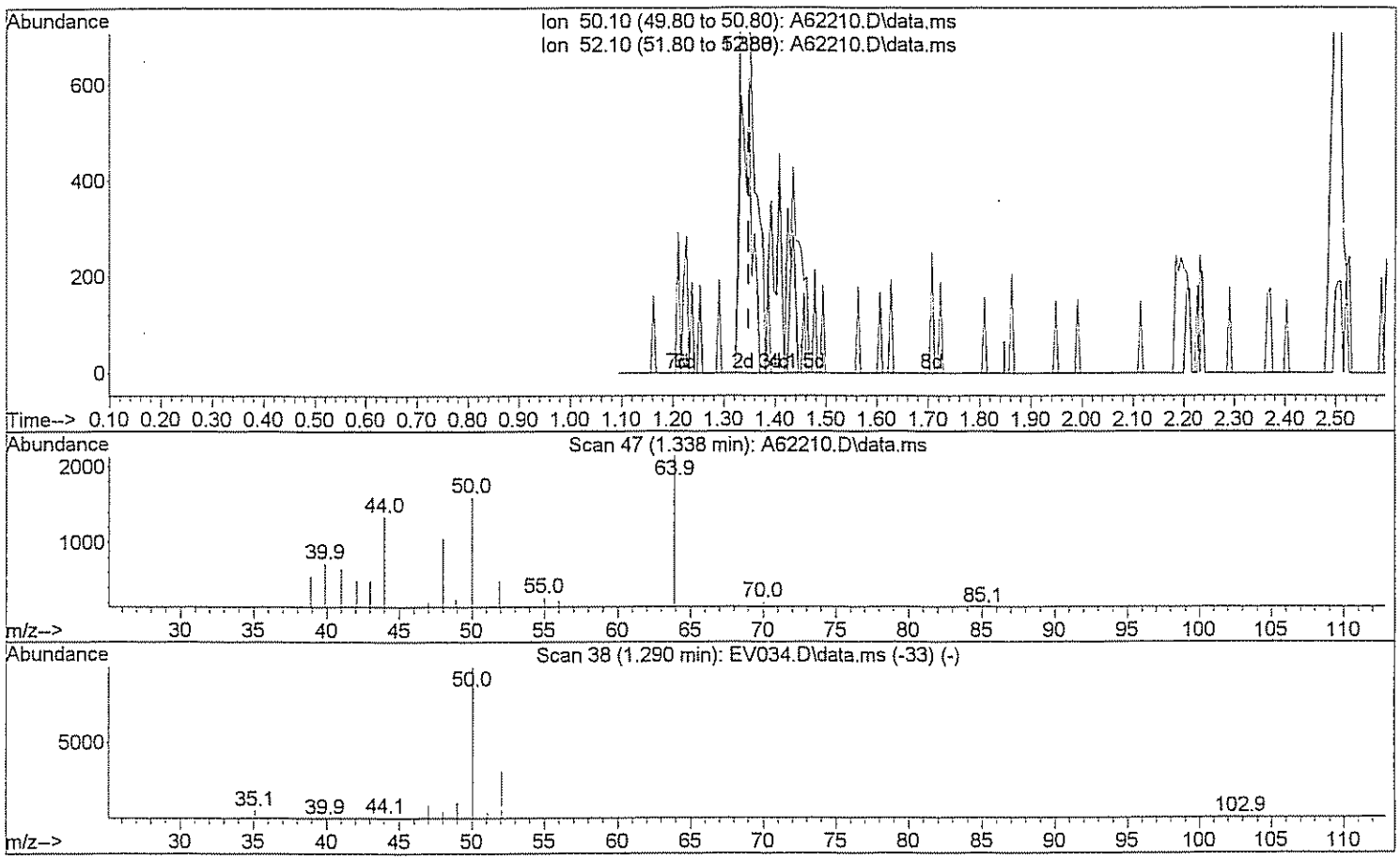
response 707

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	29.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(3) Chloromethane

1.338min (-0.011) 3.48 ug/L m LMW 3/12/09

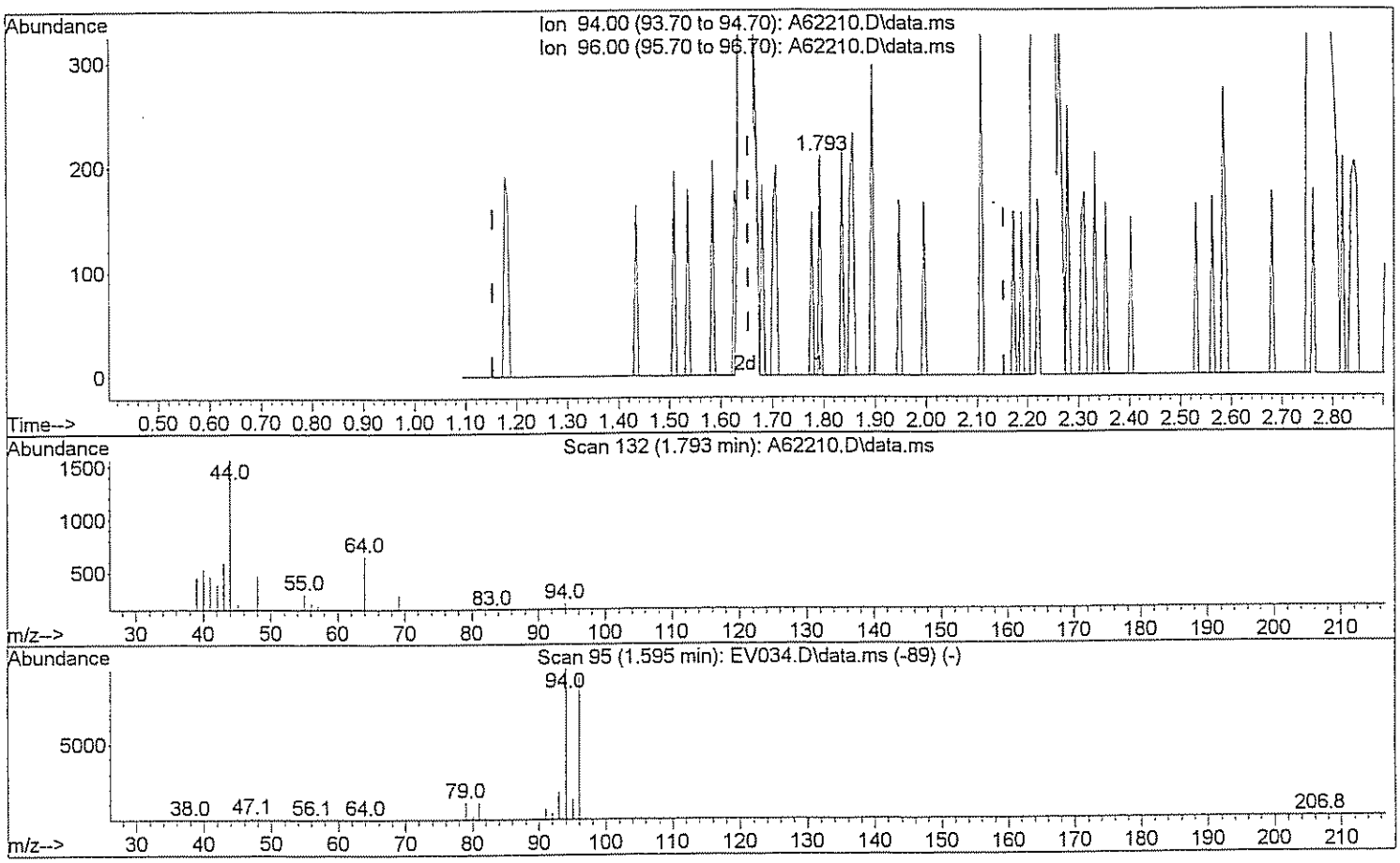
response 4413

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	4.74#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(5) Bromomethane

1.793min (+0.139) 0.13 ug/L

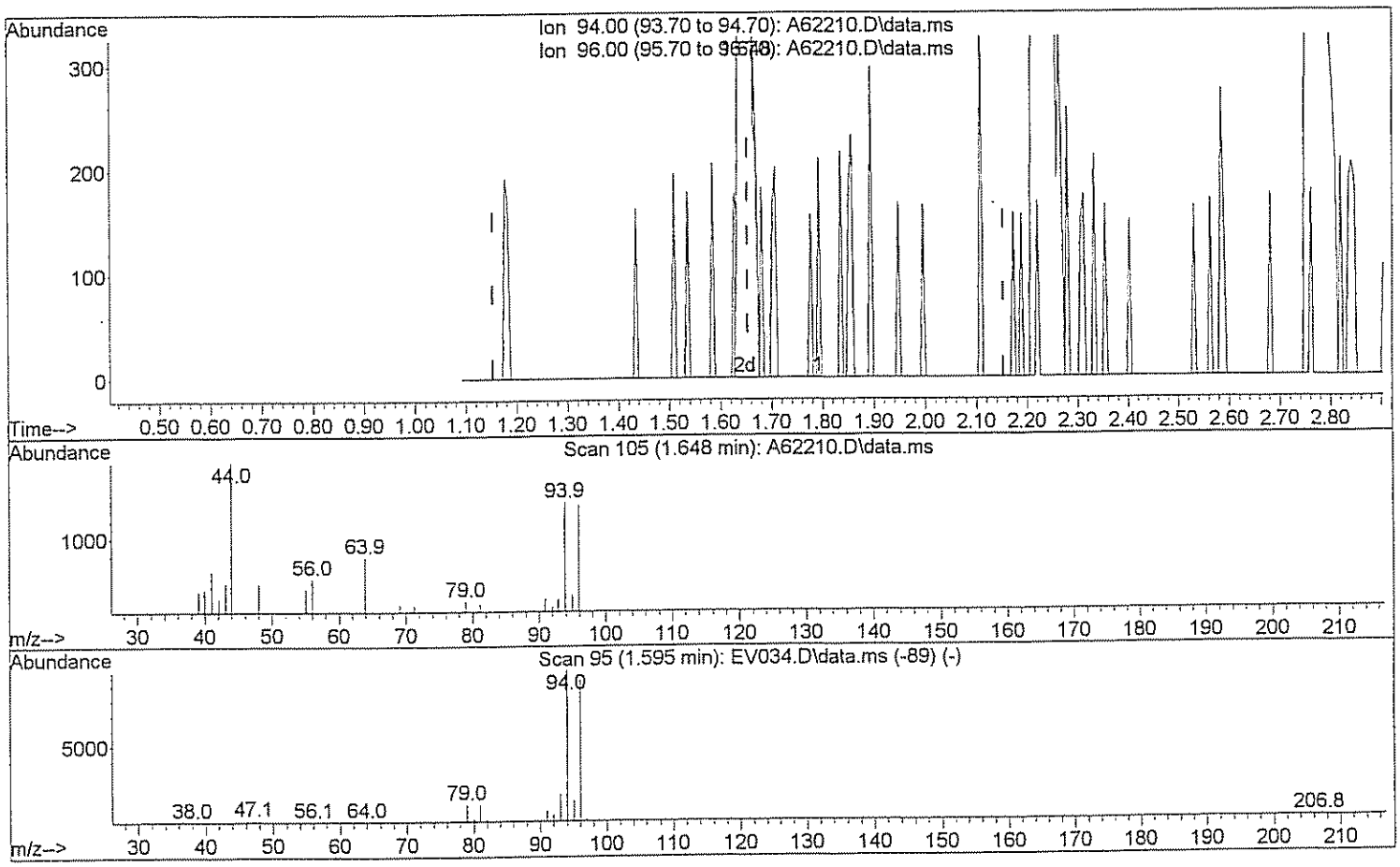
response 67

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	102.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(5) Bromomethane

1.648min (-0.005) 3.59 ug/L m SM 3/12/09

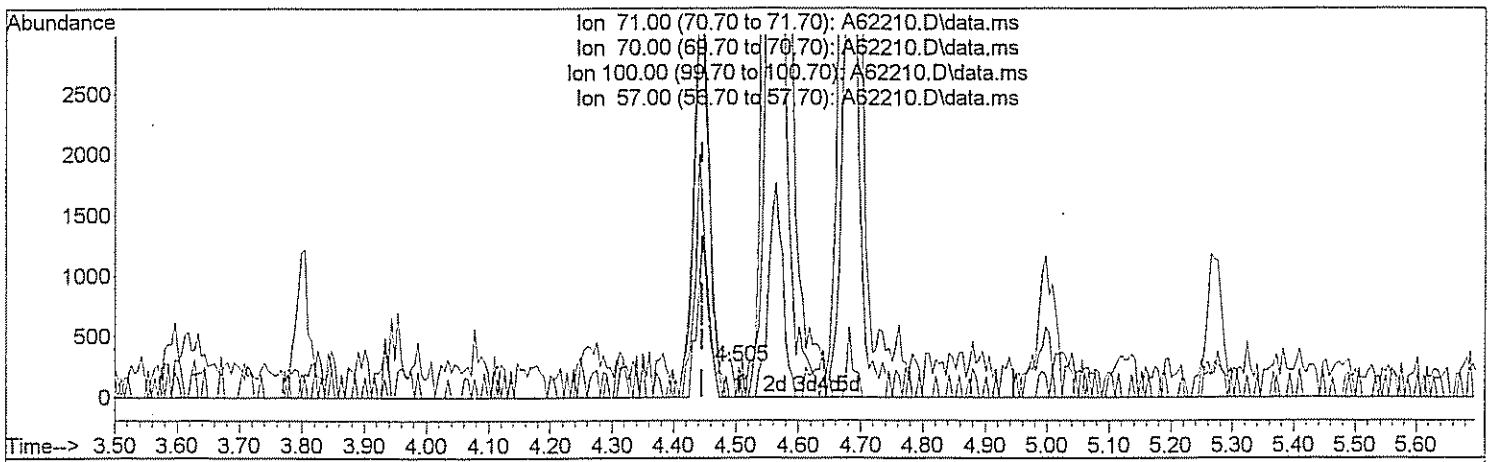
response 1858

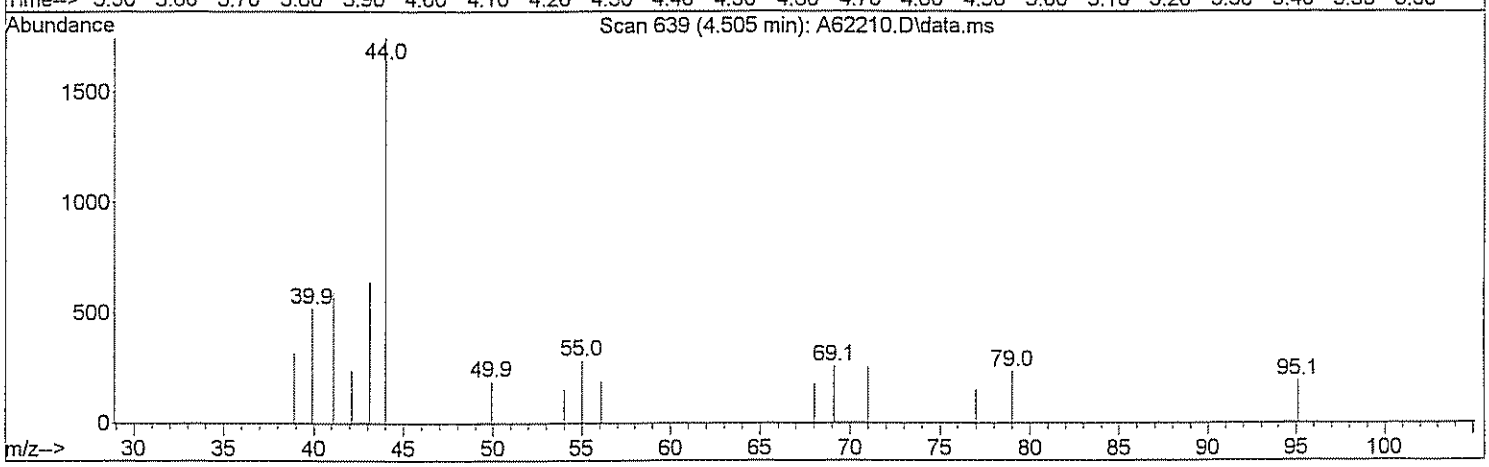
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	3.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration





TIC: A62210.D\data.ms

(26) n-Heptane (T)

4.505min (+0.059) 0.13 ug/L

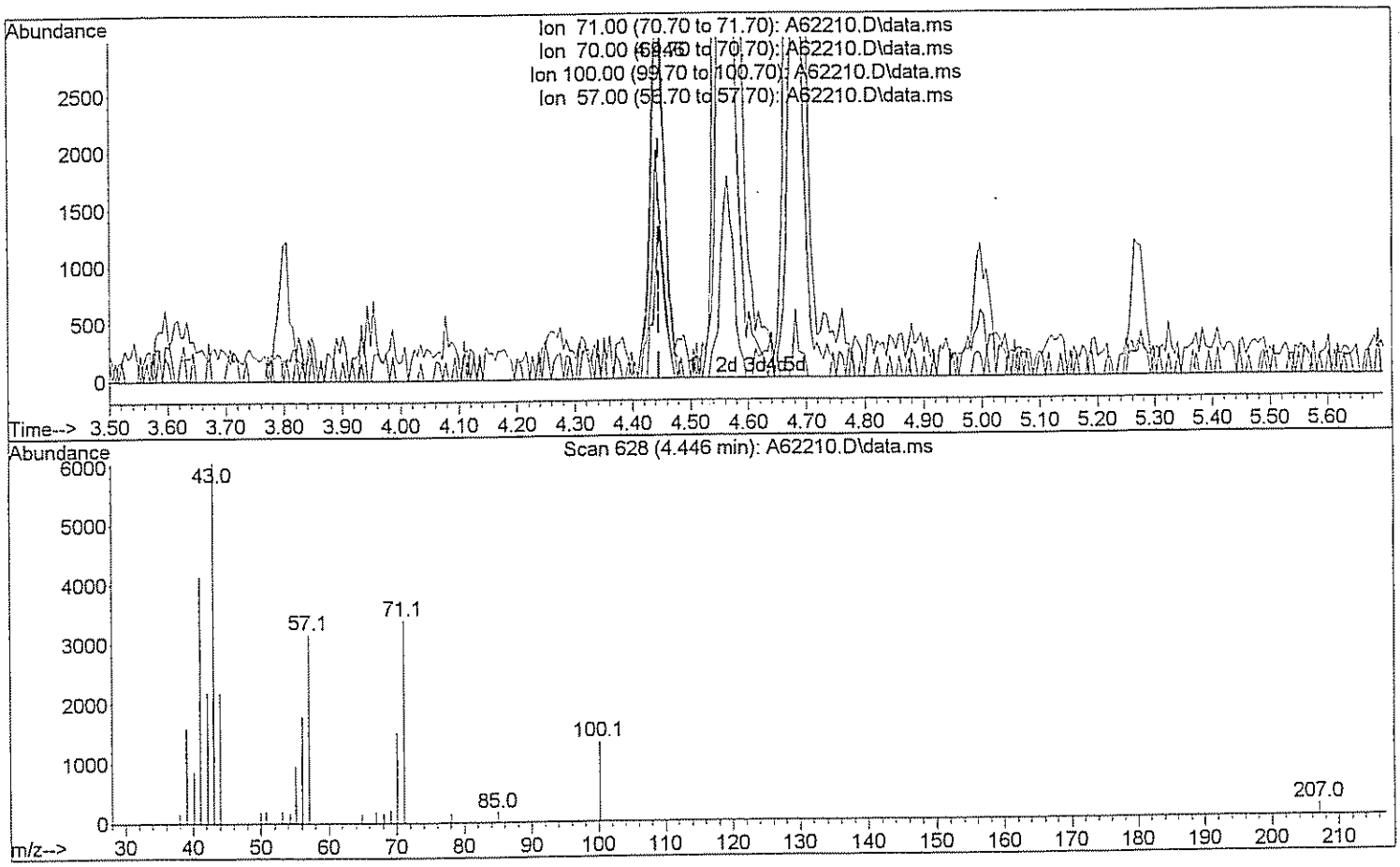
response 140

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	60.00	0.00#
57.00	34.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(26) n-Heptane (T)

4.446min (-0.000) 5.08 ug/L m 3/12/09

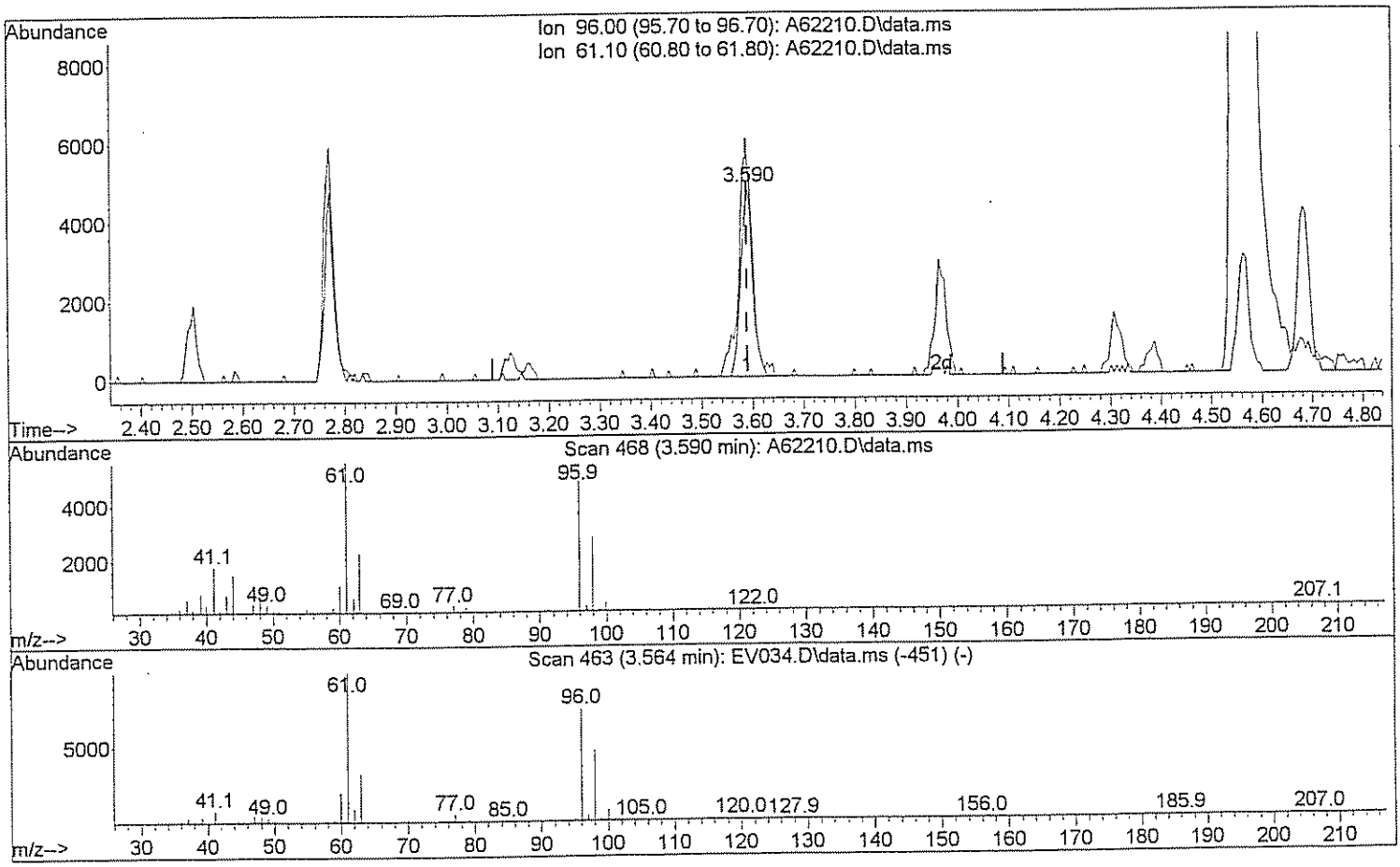
response 5639

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	60.00	0.00#
57.00	34.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.000) 5.06 ug/L

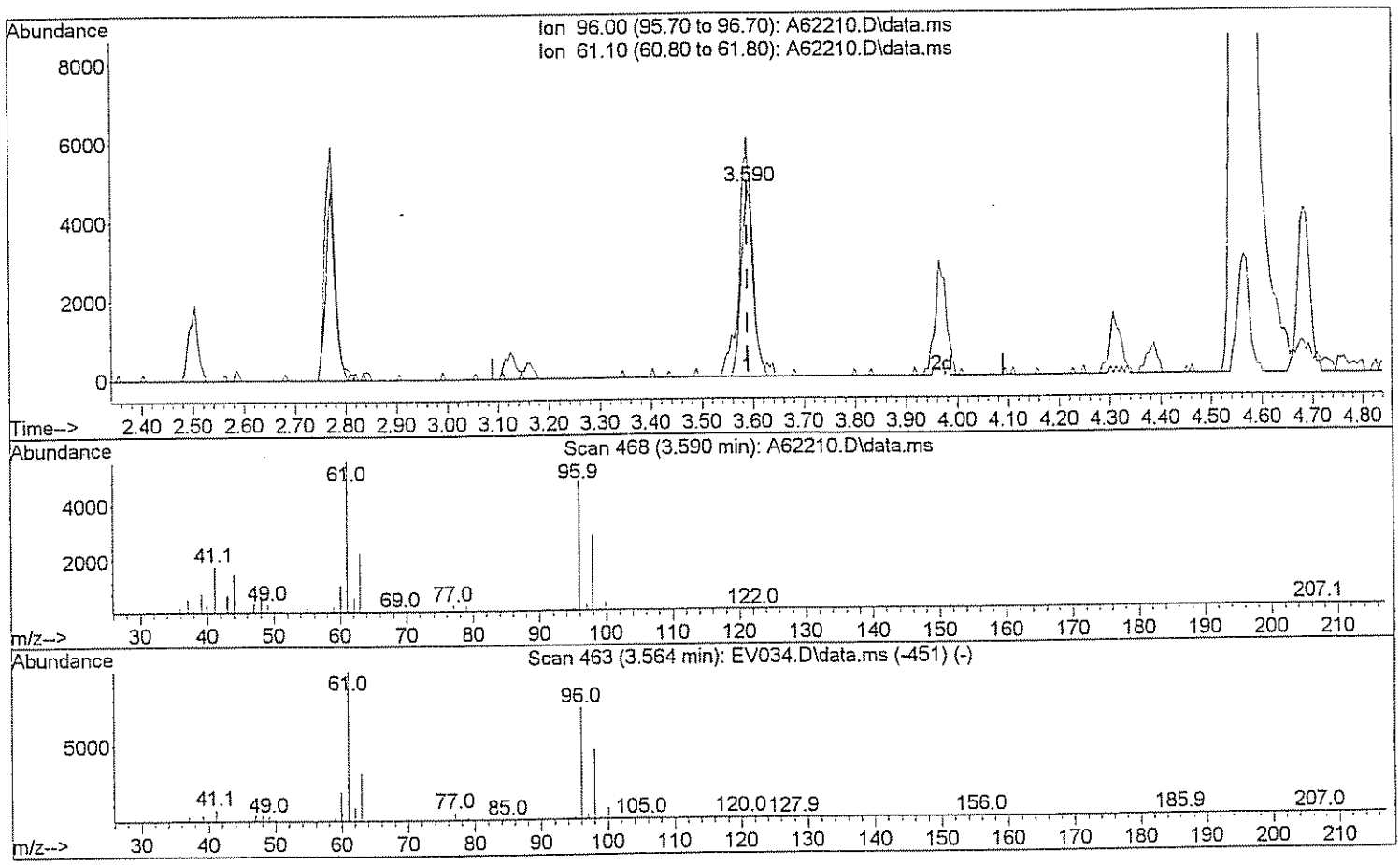
response 7602

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	144.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.000) 9.67 ug/L m Sm 3/12/09

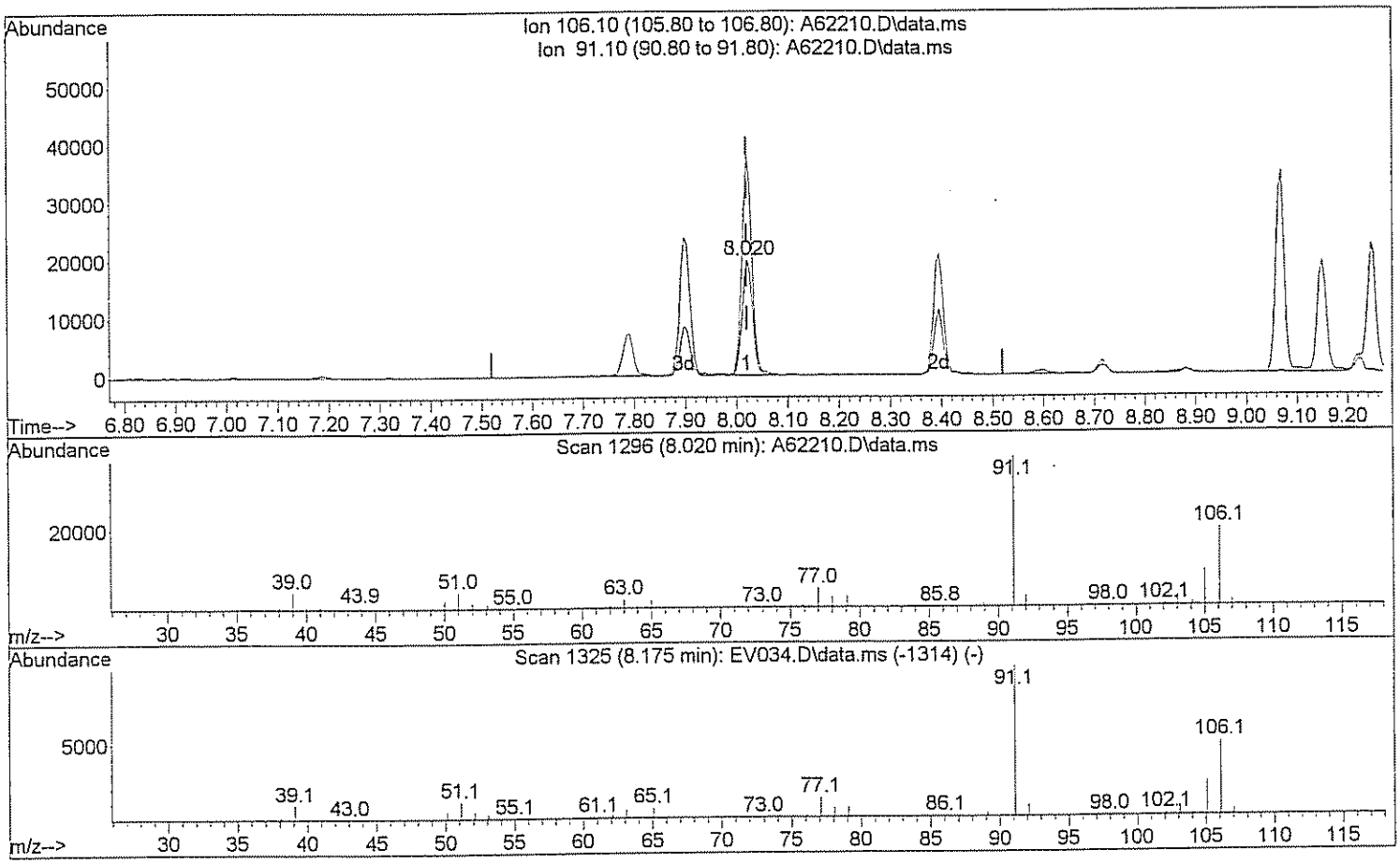
response 14539

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	75.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 8.68 ug/L

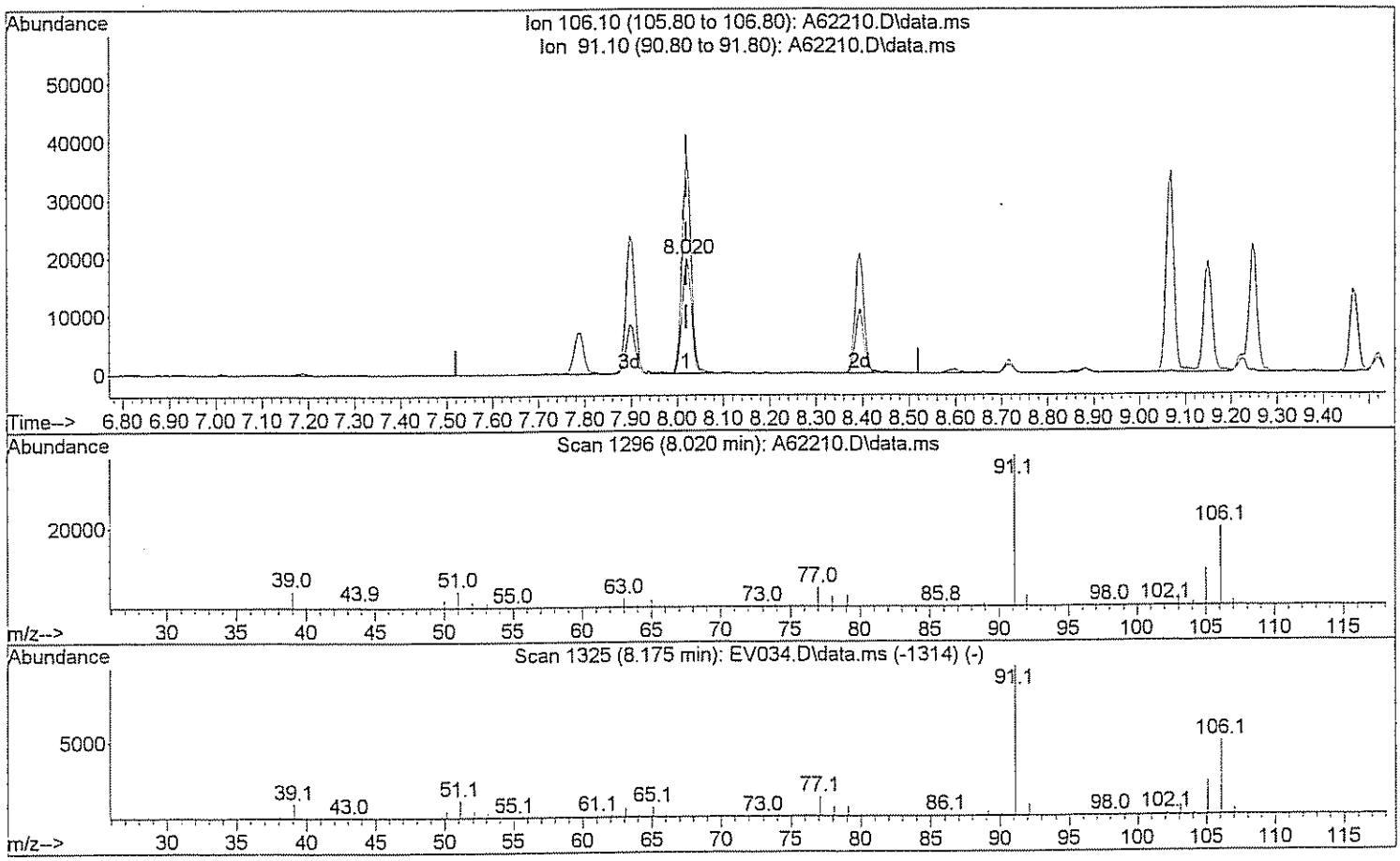
response 27480

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:14:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 13.09 ug/L m

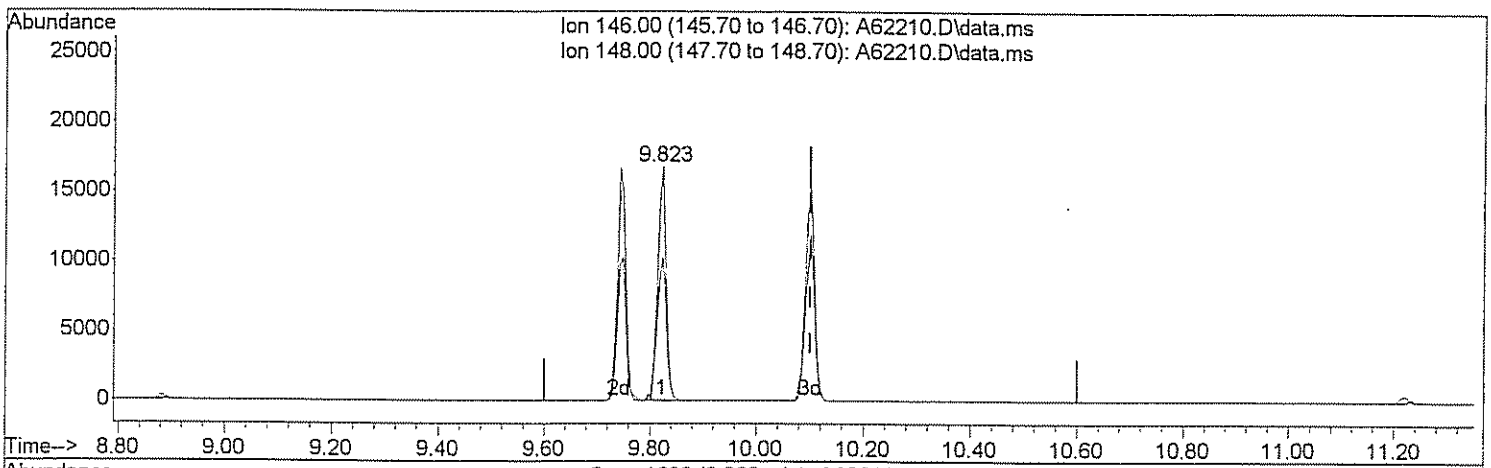
response 41457

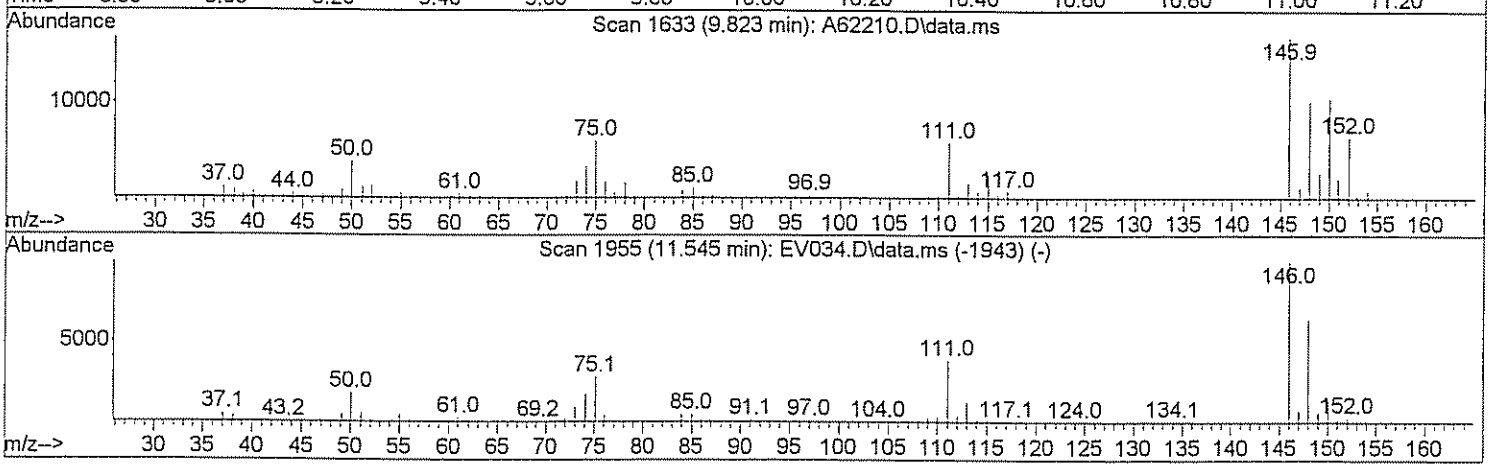
Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.27#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration





TIC: A62210.D\data.ms

(92) 1,2-Dichlorobenzene

9.823min (-0.278) 4.58 ug/L

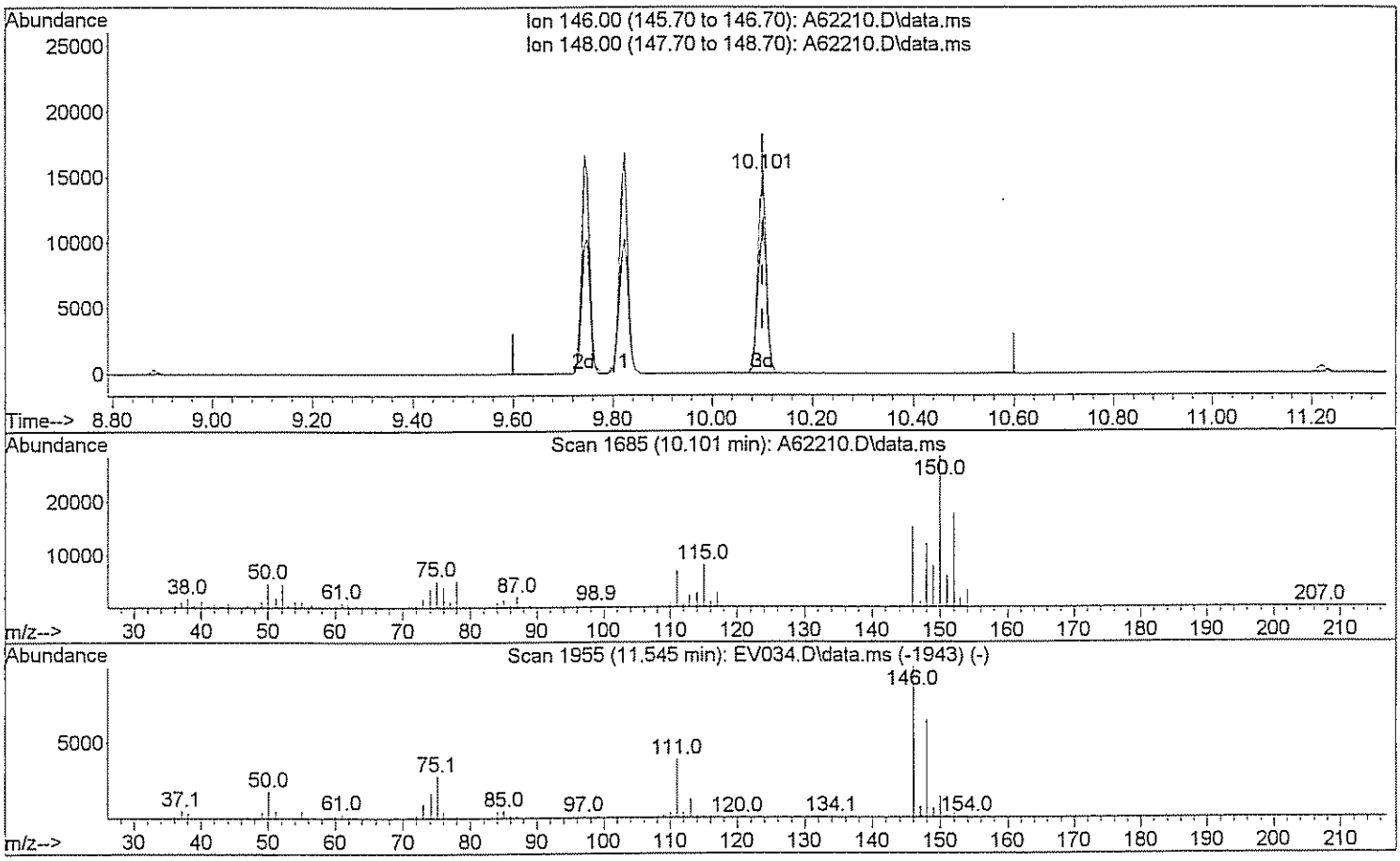
response 18842

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	66.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62210.D
Acq On : 10 Mar 2009 9:51
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 13:09:58 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:09:01 2009
Response via : Initial Calibration



TIC: A62210.D\data.ms

(92) 1,2-Dichlorobenzene

10.101min (-0.000) 4.30 ug/L m Sm 3/12/09

response 17699

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	70.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	409726	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	330513	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.785	117	315909	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	110975	48.69	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.38%				
53) Toluene-d8	6.148	98	379105	53.28	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 106.56%				
75) 4-Bromofluorobenzene	8.881	95	152358	48.07	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.14%				
91) 1,2-Dichlorobenzene-d4	10.085	152	167323	48.12	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 96.24%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	19480	21.73	ug/L		97
3) Chloromethane	1.349	50	23222m	14.27	ug/L		
4) Vinyl chloride	1.419	62	32576	19.04	ug/L		94
5) Bromomethane	1.654	94	10106m	15.46	ug/L		
6) Chloroethane	1.723	64	22942	19.88	ug/L		94
7) Trichlorofluoromethane	1.868	101	44284	16.03	ug/L		100
8) Ethyl Ether	2.066	59	28733	18.46	ug/L		97
9) Freon 113	2.205	101	28845	21.34	ug/L		89
10) Acrolein	2.216	56	28388	81.65	ug/L	#	61
11) Tert-Butyl alcohol	2.681	59	41475	235.05	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	28807	19.62	ug/L		81
13) Iodomethane	2.355	142	28958	17.12	ug/L		98
14) Acetonitrile	2.505	40	144920	150.20	ug/L	#	1
15) Methylene chloride	2.611	84	35741	20.35	ug/L		95
16) Trans-1,2-dichloroethene	2.777	96	31259	19.19	ug/L		88
17) Isopropyl ether	3.109	45	125677	19.13	ug/L		98
18) 1,1-Dichloroethane	3.125	63	56249	18.45	ug/L		97
19) Acetone	2.317	43	20383	30.96	ug/L		93
20) Methyl Acetate	4.265	43	21872	11.56	ug/L	#	100
21) MTBE	2.756	73	91808	19.12	ug/L		100
22) Carbon disulfide	2.381	76	96195	20.60	ug/L		100
24) Acrylonitrile	2.852	53	49876	83.85	ug/L		97
25) Chloroprene	3.163	53	52417	19.68	ug/L		91
26) n-Heptane	4.446	71	29596m	23.29	ug/L		
27) 2,2-Dichloropropane	3.569	77	47849	19.51	ug/L	#	82
28) Cis-1,2-dichloroethene	3.591	96	36145	19.00	ug/L		97

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.591	96	70015m	38.80 ug/L		
30) Propionitrile	3.746	54	44496	152.51 ug/L		98
31) Bromochloromethane	3.799	128	17340	18.04 ug/L		99
32) Tetrahydrofuran	3.799	72	8278	16.04 ug/L	#	1
33) Chloroform	3.847	83	57558	17.21 ug/L		98
34) Cyclohexane	3.949	56	59758	20.79 ug/L		92
35) 1,1,1-Trichloroethane	3.970	97	47769	18.07 ug/L		98
36) Carbon tetrachloride	4.077	117	41168	18.32 ug/L		99
37) Methylcyclohexane	5.003	83	56613	20.37 ug/L		93
38) Isobutyl Alcohol	4.446	43	54351	456.36 ug/L		87
41) 2-Butanone	3.623	43	39756	33.50 ug/L		96
42) 1,1-Dichloropropene	4.109	75	41549	18.39 ug/L		99
43) Vinyl Acetate	3.152	43	44485	17.99 ug/L		96
44) Benzene	4.291	78	131773	18.16 ug/L		100
45) 1,2-Dichloroethane	4.388	62	42968	18.14 ug/L	#	87
46) Trichloroethene	4.890	95	33055	18.39 ug/L		96
47) 1,2-Dichloropropane	5.169	63	33765	17.10 ug/L		97
48) Methyl methacrylate	5.265	69	24981	17.88 ug/L		95
49) Dibromomethane	5.286	93	21693	17.76 ug/L		94
50) Bromodichloromethane	5.436	83	44815	17.75 ug/L		100
51) 2-Chloroethylvinyl ether	5.784	63	91447	67.79 ug/L		98
52) Cis-1,3-dichloropropene	5.918	75	52151	16.68 ug/L		98
54) Toluene	6.223	92	81022	20.48 ug/L		93
55) Trans-1,3-dichloropropene	6.570	75	48329	18.33 ug/L		97
56) Ethyl methacrylate	6.624	69	43535	18.47 ug/L		88
57) 1,1,2-Trichloroethane	6.779	83	26153	21.02 ug/L		97
59) 4-Methyl-2-pentanone	6.099	43	77981	35.75 ug/L		95
60) 2-Hexanone	7.068	43	51737	34.73 ug/L		99
61) Tetrachloroethene	6.800	166	33810	18.81 ug/L		96
62) 1,3-Dichloropropane	6.977	76	50610	18.89 ug/L		96
63) Dibromochloromethane	7.186	129	34334	17.46 ug/L		97
64) 1,2-Dibromoethane	7.319	107	31724	18.48 ug/L		99
65) 1-Chlorohexane	7.785	91	46819	18.71 ug/L		99
66) Chlorobenzene	7.811	112	100842	17.96 ug/L		91
67) 1,1,1,2-Tetrachloroethane	7.908	131	35757	16.36 ug/L		92
68) Ethylbenzene	7.897	91	164411	17.50 ug/L		98
69) m,p-Xylene	8.020	106	134760	34.29 ug/L		90
70) o-Xylene	8.395	106	67882	17.05 ug/L		93
71) Xylene (Total)	8.020	106	203312m	51.20 ug/L		
72) Styrene	8.421	104	114507	17.36 ug/L		96
73) Bromoform	8.598	173	23166	16.30 ug/L		98
74) Isopropylbenzene	8.716	105	150702	17.13 ug/L		100

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

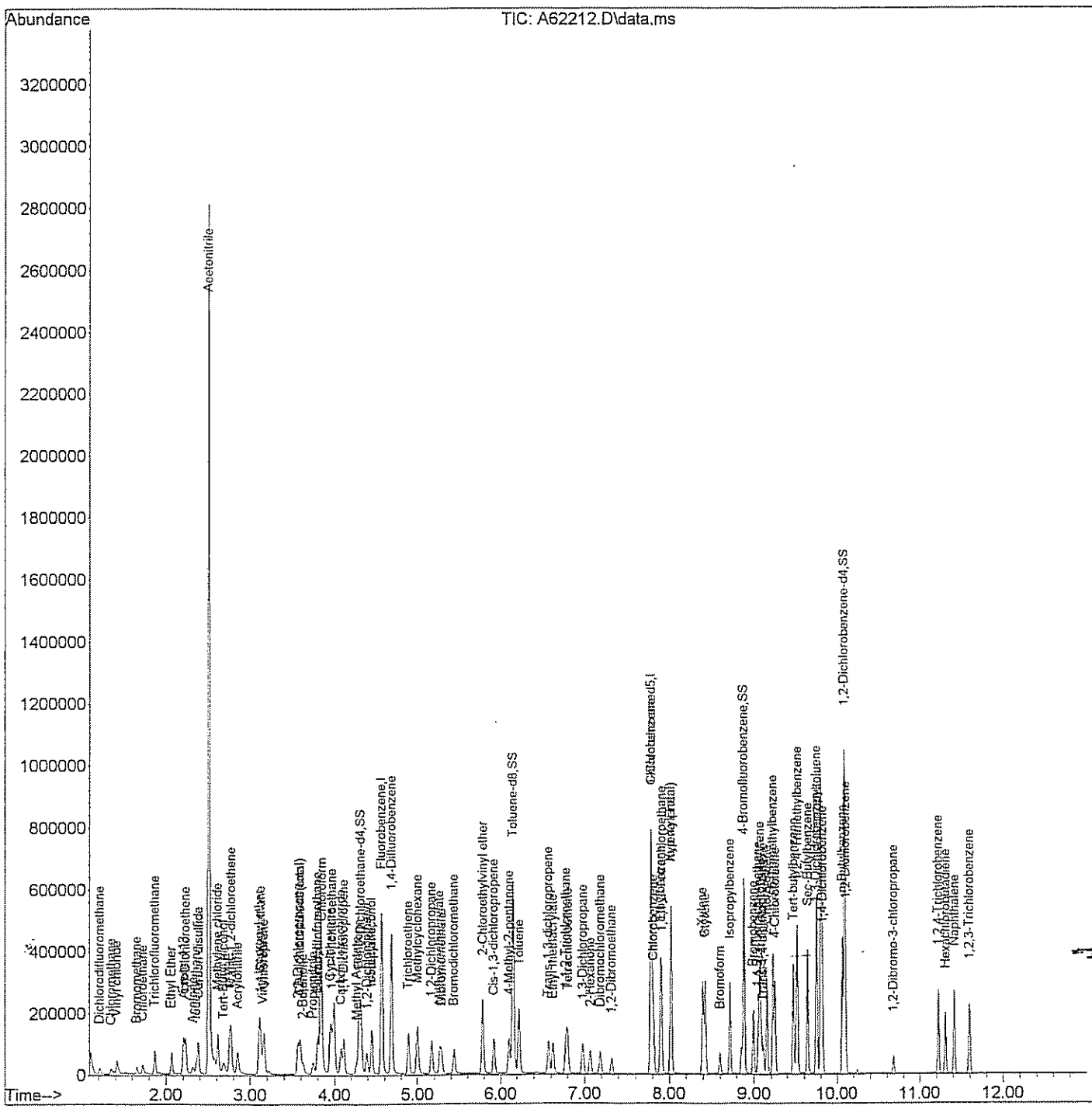
Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) Bromobenzene	8.994	156	41612	17.15	ug/L		97
77) 1,1,2,2-Tetrachloroethane	9.047	83	44605	17.47	ug/L		97
78) 1,2,3-Trichloropropane	9.085	110	13392	17.69	ug/L		94
79) n-Propylbenzene	9.069	91	205193	17.34	ug/L		97
80) Trans-1,4-dichloro-2-b...	9.106	53	12672	15.88	ug/L	#	1
81) 2-Chlorotoluene	9.149	126	43189	16.99	ug/L		90
82) 4-Chlorotoluene	9.250	126	46625	17.68	ug/L		91
83) 1,3,5-Trimethylbenzene	9.224	105	152269	16.45	ug/L		96
84) Tert-butylbenzene	9.470	119	133899	16.17	ug/L		96
86) 1,2,4-Trimethylbenzene	9.518	105	157251	16.36	ug/L		93
87) Sec-Butylbenzene	9.641	105	211037	16.78	ug/L		98
88) 1,3-Dichlorobenzene	9.743	146	87761	15.95	ug/L		100
89) 4-Isopropyltoluene	9.753	119	179498	15.83	ug/L		98
90) 1,4-Dichlorobenzene	9.823	146	90943	16.72	ug/L		99
92) 1,2-Dichlorobenzene	10.101	146	87372	16.89	ug/L		97
93) n-Butylbenzene	10.058	91	170848	16.82	ug/L		95
94) 1,2-Dibromo-3-chloropr...	10.679	75	8734	16.38	ug/L		80
95) 1,2,4-Trichlorobenzene	11.219	180	56222	16.12	ug/L		98
96) Hexachlorobutadiene	11.305	225	24297	16.43	ug/L		99
97) Naphthalene	11.412	128	161770	16.87	ug/L		100
98) 1,2,3-Trichlorobenzene	11.594	180	50626	16.33	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

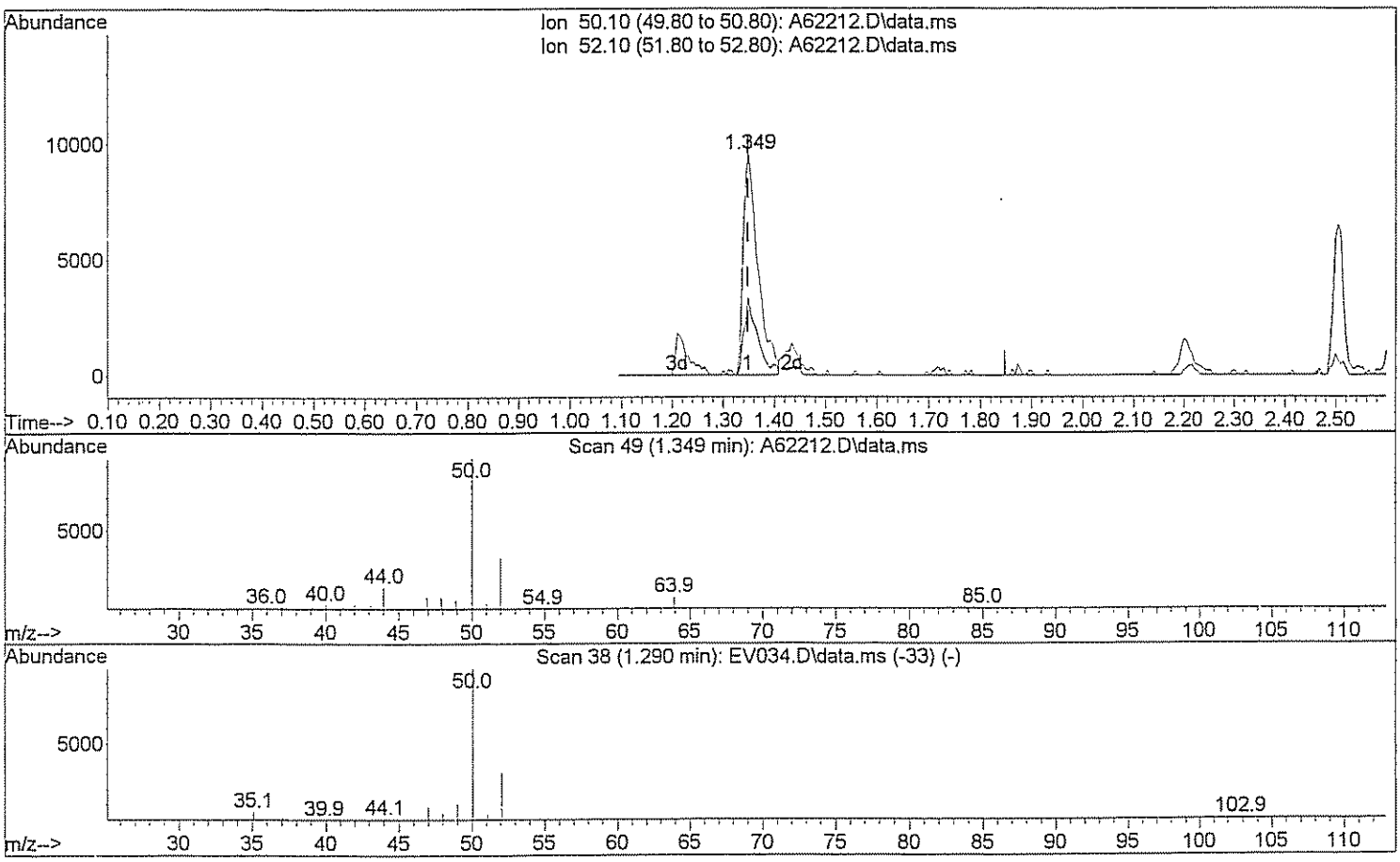
Quant Time: Mar 12 13:07:13 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(3) Chloromethane

1.349min (-0.000) 11.81 ug/L

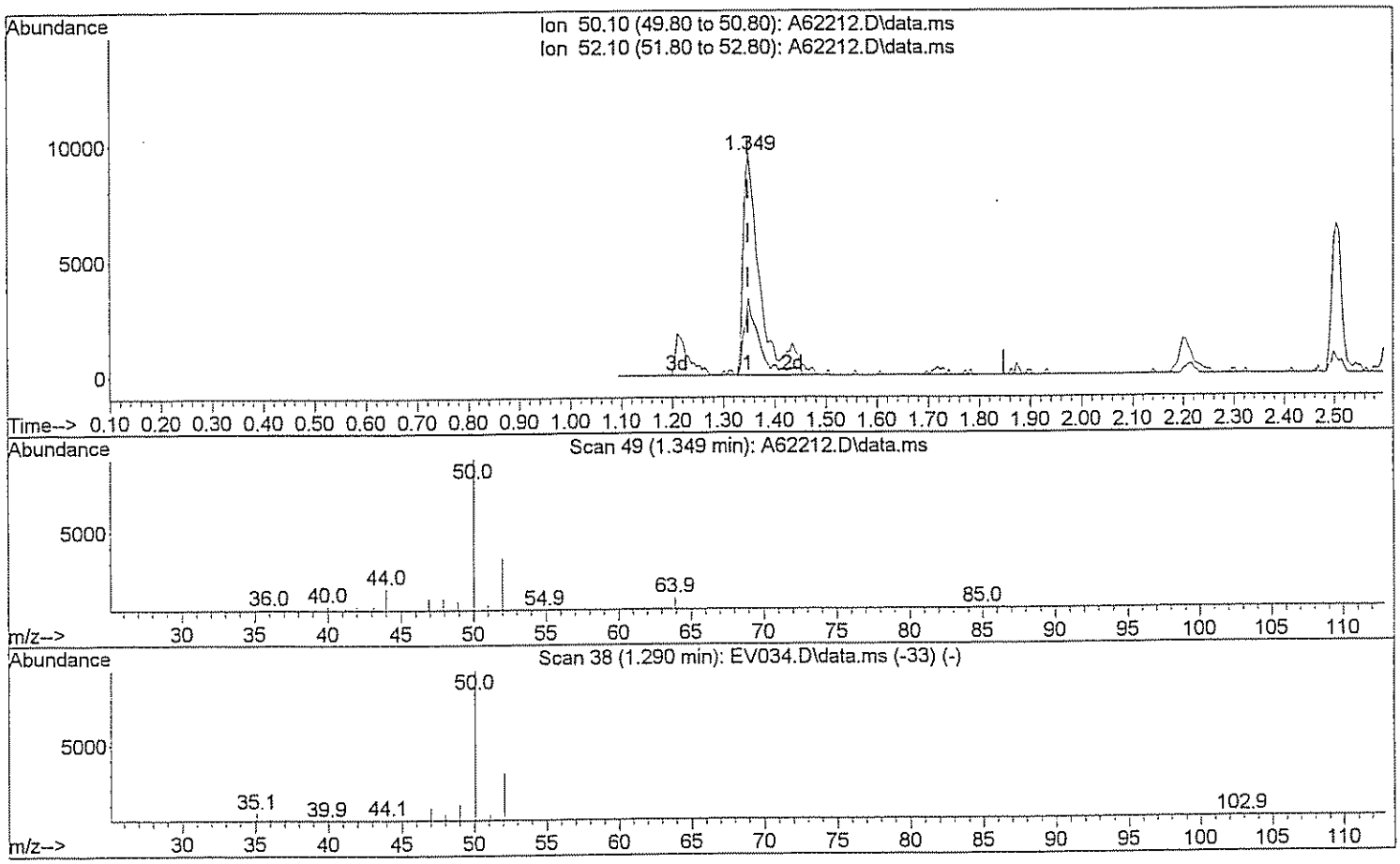
response 19214

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	30.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(3) Chloromethane

1.349min (-0.000) 14.27 ug/L m

SW 3/12/09

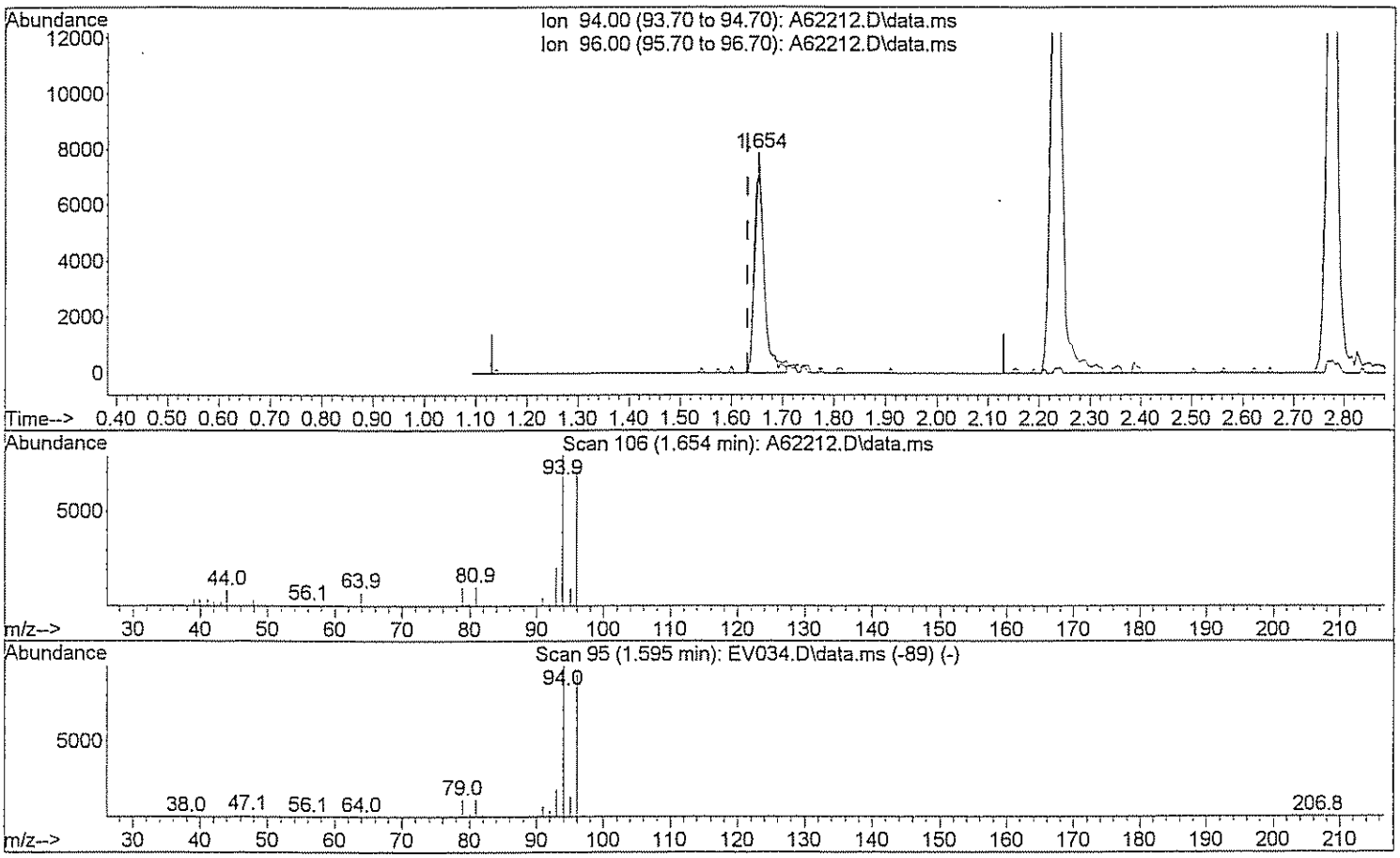
response 23222

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	25.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(5) Bromomethane

1.654min (+0.021) 14.75 ug/L

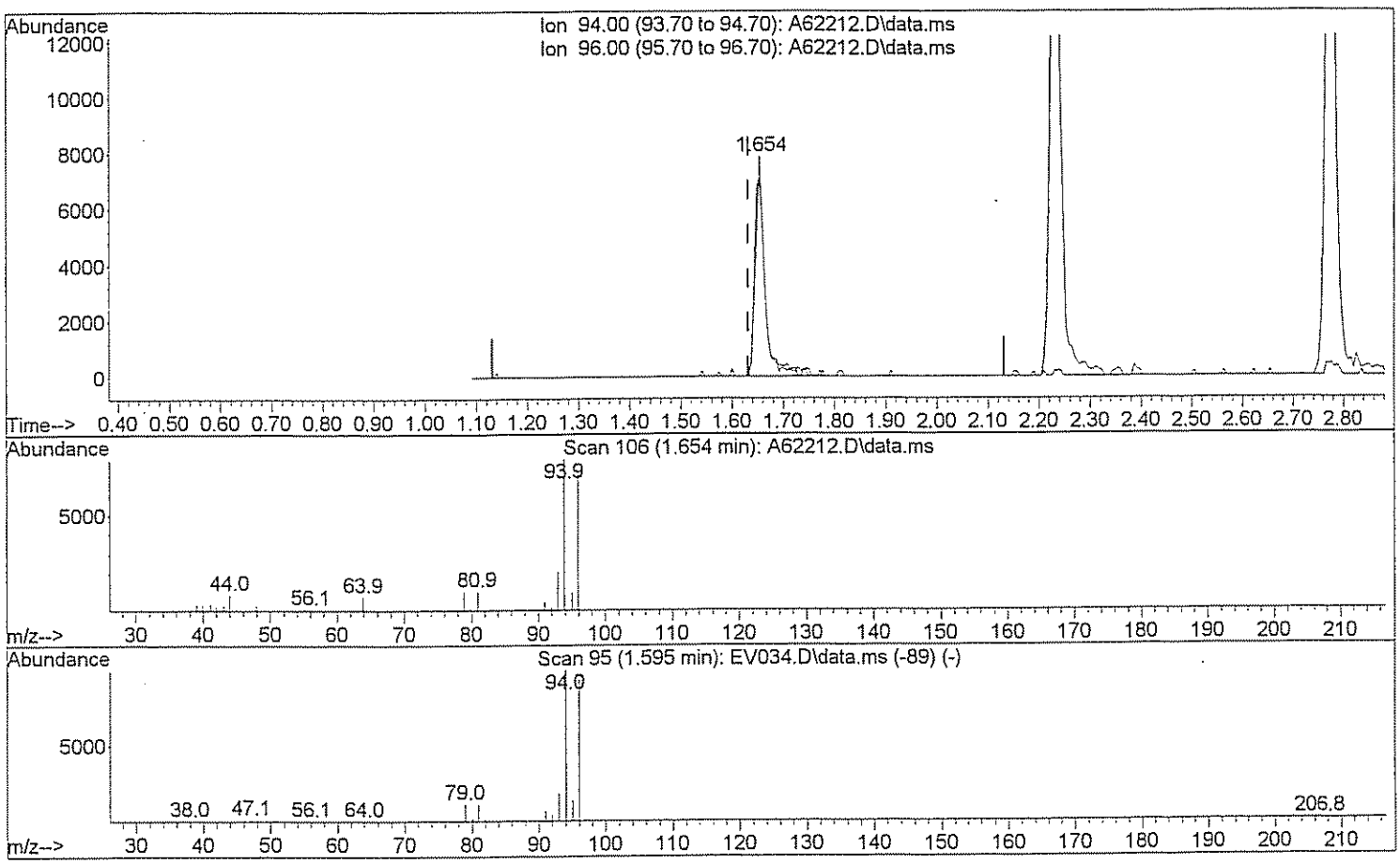
response 9642

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	104.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(5) Bromomethane

1.654min (+0.021) 15.46 ug/L m DW 3/12/09

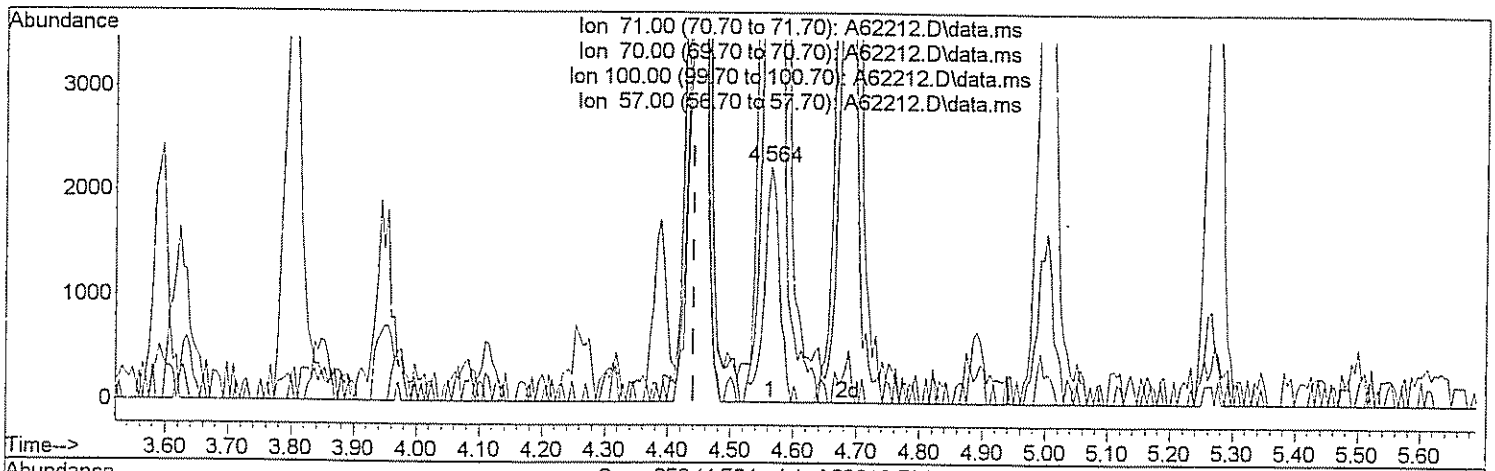
response 10106

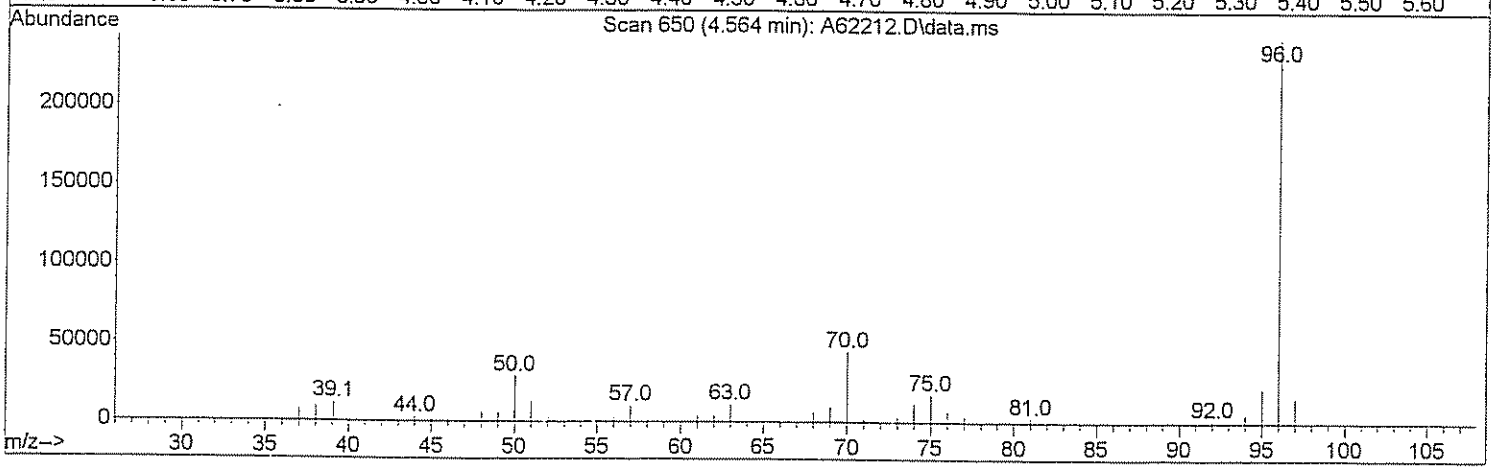
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	99.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration





TIC: A62212.D\data.ms

(26) n-Heptane (T)

4.564min (+0.123) 3.00 ug/L

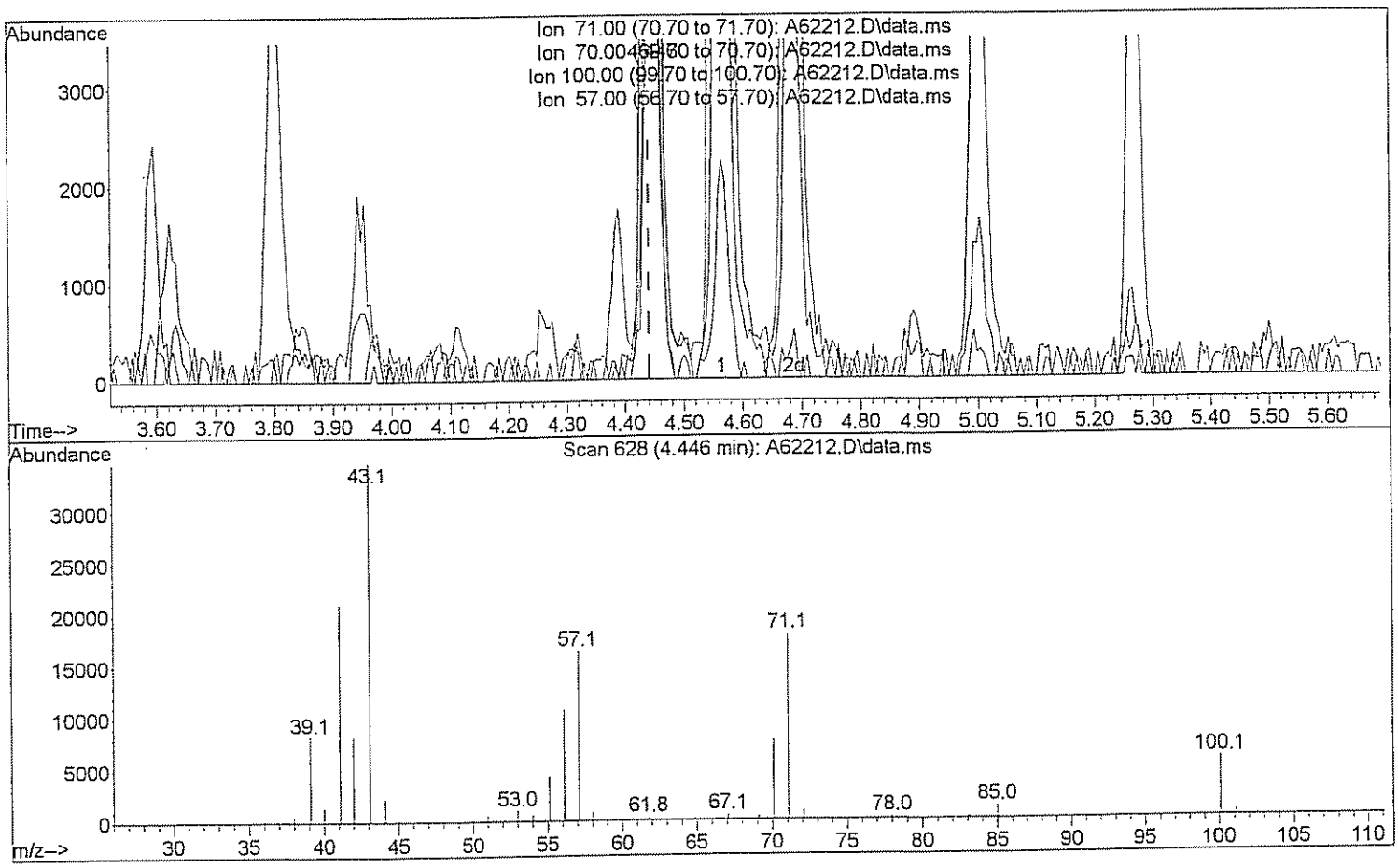
response 3811

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1904.36#
100.00	60.00	0.00#
57.00	34.00	460.64#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(26) n-Heptane (T)

4.446min (+0.005) 23.29 ug/L m DW 3/12/09

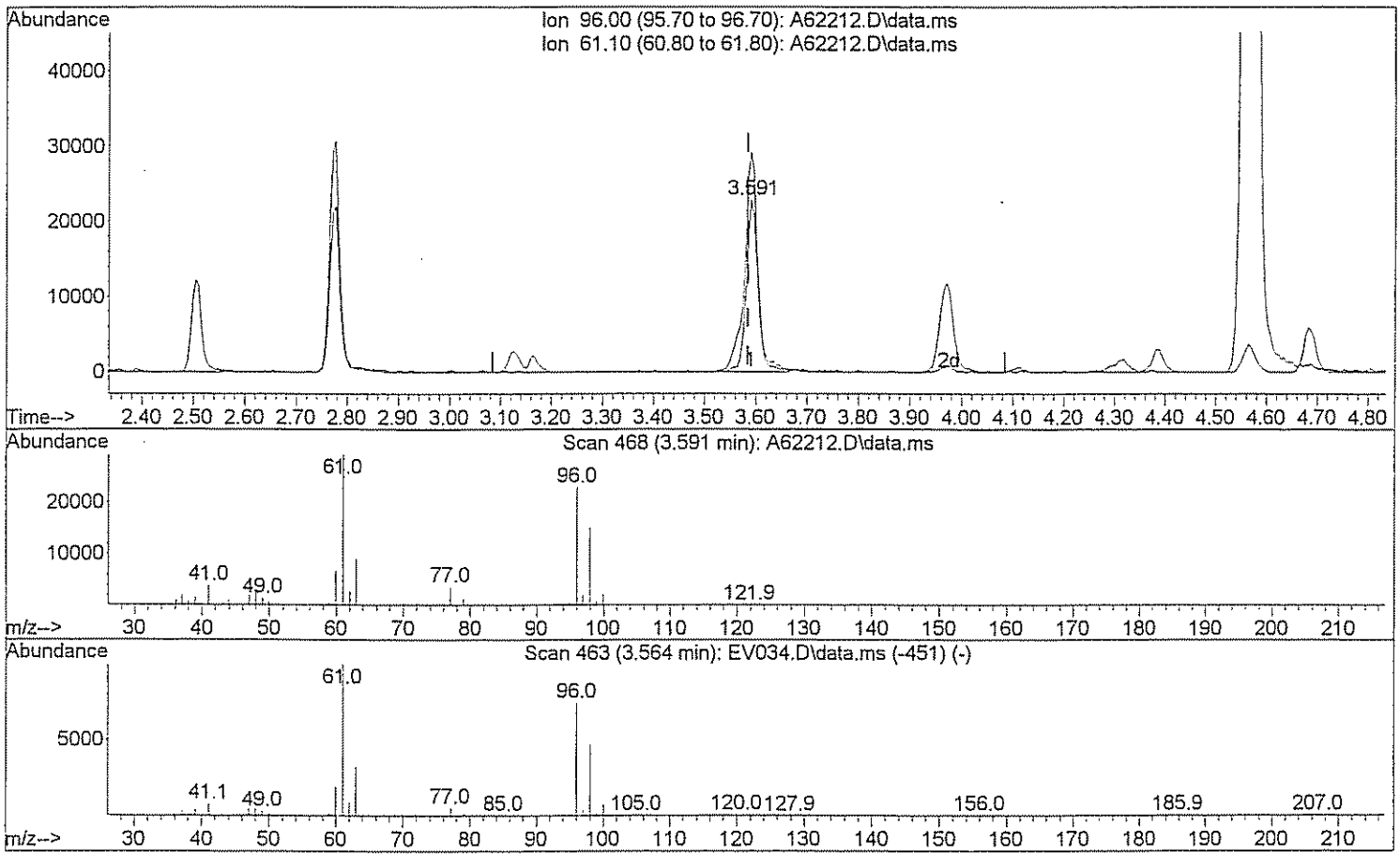
response 29596

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	245.22#
100.00	60.00	0.00#
57.00	34.00	59.32#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (+0.005) 20.03 ug/L

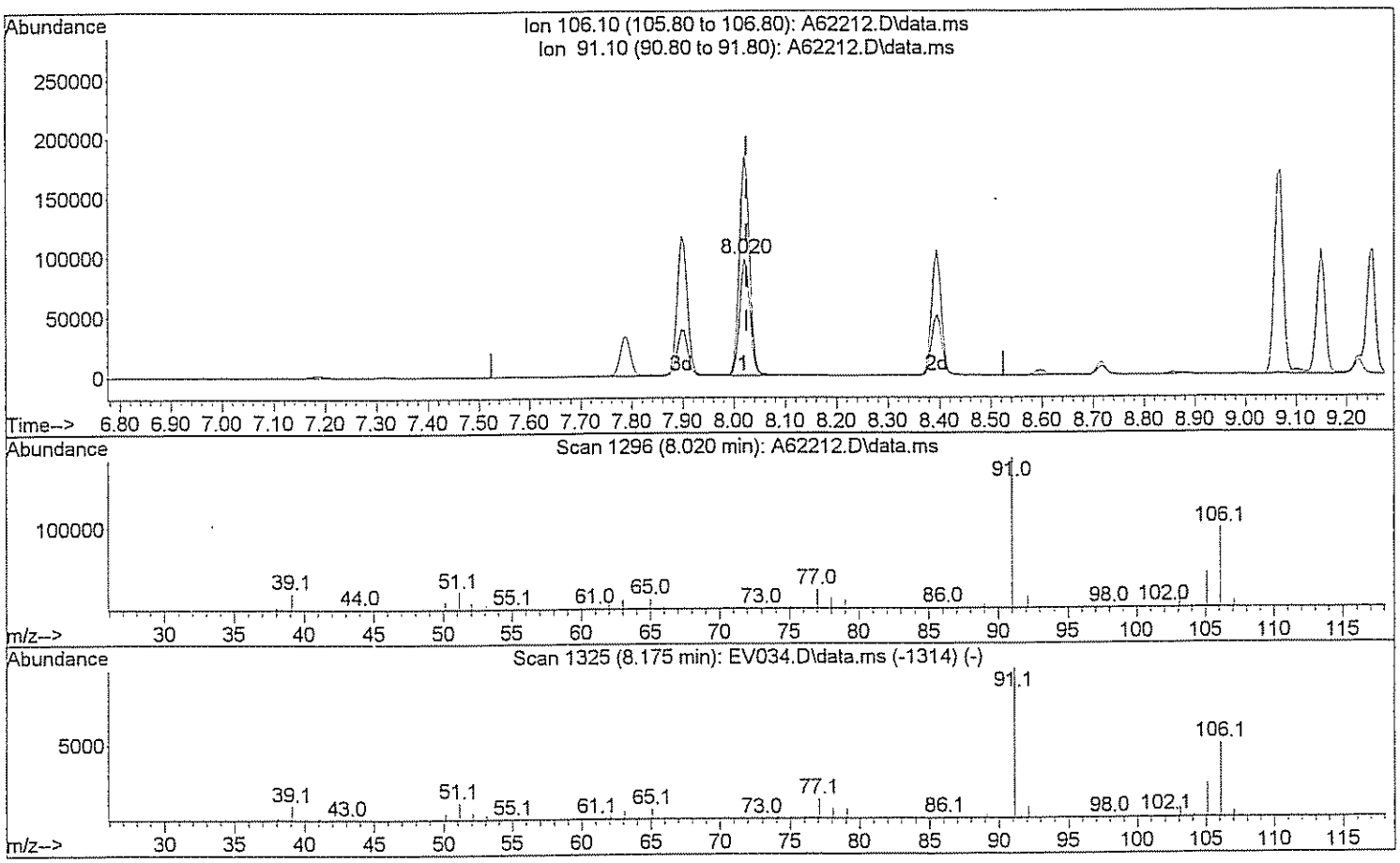
response 36145

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	147.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(71) Xylene (Total)

8.020min (-0.005) 33.94 ug/L

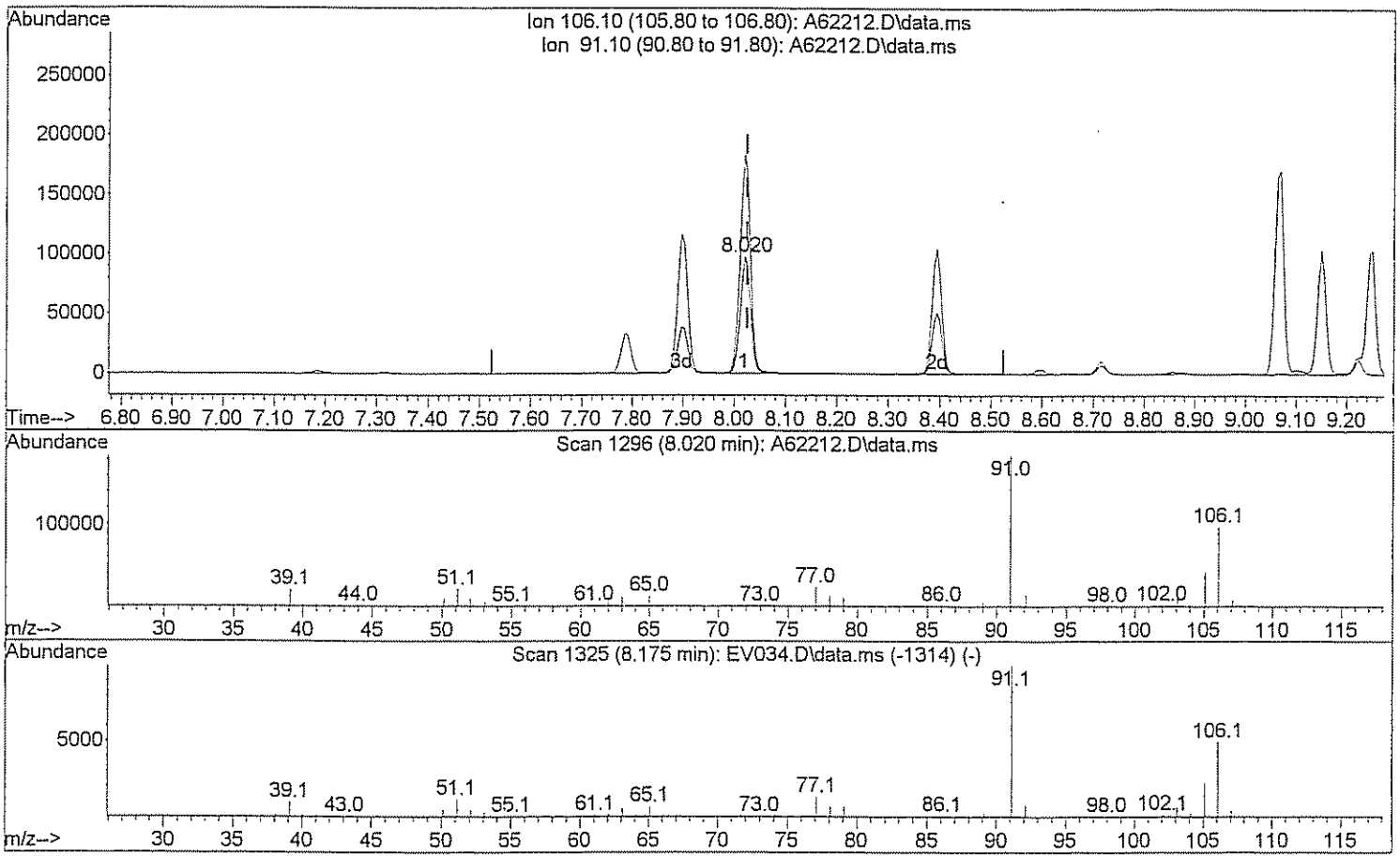
response 134760

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62212.D
Acq On : 10 Mar 2009 11:24
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 13:04:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:01:53 2009
Response via : Initial Calibration



TIC: A62212.D\data.ms

(71) Xylene (Total)

8.020min (-0.005) 51.20 ug/L m SW 3/12/09

response 203312

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	127.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.569	96	491115	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	404603	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.779	117	298407	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	131037	50.00	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.00%				
53) Toluene-d8	6.148	98	337500	50.00	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.00%				
75) 4-Bromofluorobenzene	8.881	95	149239	50.00	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.00%				
91) 1,2-Dichlorobenzene-d4	10.090	152	162190	50.00	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 100.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	42446	50.00	ug/L		90
3) Chloromethane	1.349	50	51910	50.00	ug/L		99
4) Vinyl chloride	1.419	62	82006	50.00	ug/L		98
5) Bromomethane	1.654	94	26789	50.00	ug/L		96
6) Chloroethane	1.723	64	57388	50.00	ug/L		96
7) Trichlorofluoromethane	1.868	101	106667	50.00	ug/L		99
8) Ethyl Ether	2.066	59	73001	50.00	ug/L		95
9) Freon 113	2.205	101	63940	50.00	ug/L		88
10) Acrolein	2.216	56	74811	250.00	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	115413	1000.00	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	68693	50.00	ug/L		91
13) Iodomethane	2.360	142	88682	50.00	ug/L		94
14) Acetonitrile	2.504	40	433763	500.00	ug/L	#	1
15) Methylene chloride	2.611	84	89374	50.00	ug/L		96
16) Trans-1,2-dichloroethene	2.777	96	81757	50.00	ug/L		87
17) Isopropyl ether	3.109	45	326624	50.00	ug/L		98
18) 1,1-Dichloroethane	3.125	63	153780	50.00	ug/L		97
19) Acetone	2.317	43	55424	100.00	ug/L		97
20) Methyl Acetate	4.265	43	74238	50.00	ug/L	#	100
21) MTBE	2.756	73	237035	50.00	ug/L		100
22) Carbon disulfide	2.381	76	230751	50.00	ug/L		100
24) Acrylonitrile	2.852	53	131989	250.00	ug/L		100
25) Chloroprene	3.163	53	132715	50.00	ug/L		92
26) n-Heptane	4.446	71	75854m	50.07	ug/L		
27) 2,2-Dichloropropane	3.564	77	129938	50.00	ug/L	#	82
28) Cis-1,2-dichloroethene	3.590	96	101626	50.00	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	186209m	100.16	ug/L		
30) Propionitrile	3.746	54	130510	500.00	ug/L		98
31) Bromochloromethane	3.799	128	51407	50.00	ug/L		95
32) Tetrahydrofuran	3.804	72	24735	50.00	ug/L	#	1
33) Chloroform	3.853	83	170331	50.00	ug/L		98
34) Cyclohexane	3.949	56	157287	50.00	ug/L		93
35) 1,1,1-Trichloroethane	3.970	97	146924	50.00	ug/L		100
36) Carbon tetrachloride	4.077	117	128169	50.00	ug/L		99
37) Methylcyclohexane	5.003	83	160501	50.00	ug/L		94
38) Isobutyl Alcohol	4.446	43	138617	1000.00	ug/L		88
41) 2-Butanone	3.623	43	112688	100.00	ug/L		96
42) 1,1-Dichloropropene	4.109	75	131647	50.00	ug/L		99
43) Vinyl Acetate	3.152	43	120842	50.00	ug/L		97
44) Benzene	4.297	78	421750	50.00	ug/L		100
45) 1,2-Dichloroethane	4.388	62	136806	50.00	ug/L	#	84
46) Trichloroethene	4.896	95	107324	50.00	ug/L		90
47) 1,2-Dichloropropane	5.169	63	117779	50.00	ug/L		96
48) Methyl methacrylate	5.265	69	80158	50.00	ug/L		98
49) Dibromomethane	5.286	93	71099	50.00	ug/L		99
50) Bromodichloromethane	5.436	83	150108	50.00	ug/L		100
51) 2-Chloroethylvinyl ether	5.784	63	304642	200.00	ug/L		97
52) Cis-1,3-dichloropropene	5.918	75	184772	50.00	ug/L		100
54) Toluene	6.223	92	205842	50.00	ug/L		98
55) Trans-1,3-dichloropropene	6.576	75	125355	50.00	ug/L		98
56) Ethyl methacrylate	6.624	69	111732	50.00	ug/L		93
57) 1,1,2-Trichloroethane	6.779	83	65466	50.00	ug/L		98
59) 4-Methyl-2-pentanone	6.099	43	194154	100.00	ug/L		95
60) 2-Hexanone	7.068	43	139217	100.00	ug/L		97
61) Tetrachloroethene	6.795	166	83952	50.00	ug/L		94
62) 1,3-Dichloropropane	6.977	76	127175	50.00	ug/L		94
63) Dibromochloromethane	7.185	129	90502	50.00	ug/L		100
64) 1,2-Dibromoethane	7.319	107	81199	50.00	ug/L		99
65) 1-Chlorohexane	7.790	91	118247	50.00	ug/L		94
66) Chlorobenzene	7.811	112	258233	50.00	ug/L		90
67) 1,1,1,2-Tetrachloroethane	7.908	131	98535	50.00	ug/L		97
68) Ethylbenzene	7.902	91	429864	50.00	ug/L		99
69) m,p-Xylene	8.020	106	354164	100.00	ug/L		91
70) o-Xylene	8.395	106	181276	50.00	ug/L		91
71) Xylene (Total)	8.020	106	537873m	150.14	ug/L		
72) Styrene	8.421	104	302804	50.00	ug/L		97
73) Bromoform	8.598	173	63027	50.00	ug/L		99
74) Isopropylbenzene	8.715	105	394343	50.00	ug/L		99

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

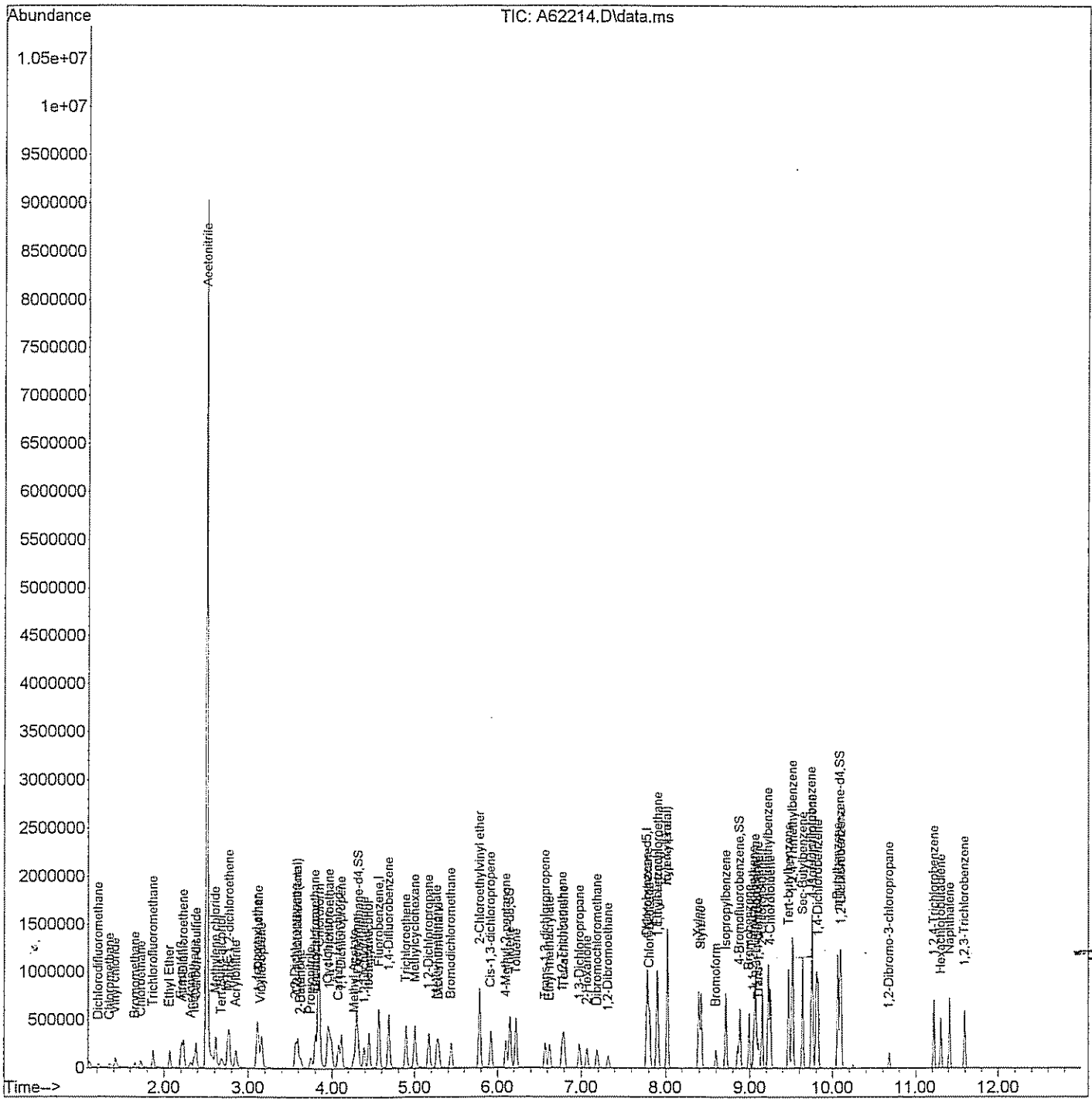
Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) Bromobenzene	8.994	156	111914	50.00	ug/L		97
77) 1,1,2,2-Tetrachloroethane	9.047	83	116503	50.00	ug/L		97
78) 1,2,3-Trichloropropane	9.085	110	33906	50.00	ug/L		94
79) n-Propylbenzene	9.069	91	547566	50.00	ug/L		98
80) Trans-1,4-dichloro-2-b...	9.106	53	34644	50.00	ug/L	#	23
81) 2-Chlorotoluene	9.149	126	119201	50.00	ug/L		87
82) 4-Chlorotoluene	9.250	126	123631	50.00	ug/L		91
83) 1,3,5-Trimethylbenzene	9.224	105	416986	50.00	ug/L		96
84) Tert-butylbenzene	9.470	119	368649	50.00	ug/L		95
86) 1,2,4-Trimethylbenzene	9.518	105	431077	50.00	ug/L		93
87) Sec-Butylbenzene	9.641	105	570872	50.00	ug/L		99
88) 1,3-Dichlorobenzene	9.748	146	243598	50.00	ug/L		100
89) 4-Isopropyltoluene	9.759	119	496608	50.00	ug/L		97
90) 1,4-Dichlorobenzene	9.823	146	248499	50.00	ug/L		98
92) 1,2-Dichlorobenzene	10.101	146	235473	50.00	ug/L		97
93) n-Butylbenzene	10.058	91	460347	50.00	ug/L		95
94) 1,2-Dibromo-3-chloropr...	10.679	75	23650	50.00	ug/L	#	78
95) 1,2,4-Trichlorobenzene	11.225	180	155200	50.00	ug/L		98
96) Hexachlorobutadiene	11.305	225	61951	50.00	ug/L		100
97) Naphthalene	11.412	128	427662	50.00	ug/L		100
98) 1,2,3-Trichlorobenzene	11.594	180	139897	50.00	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

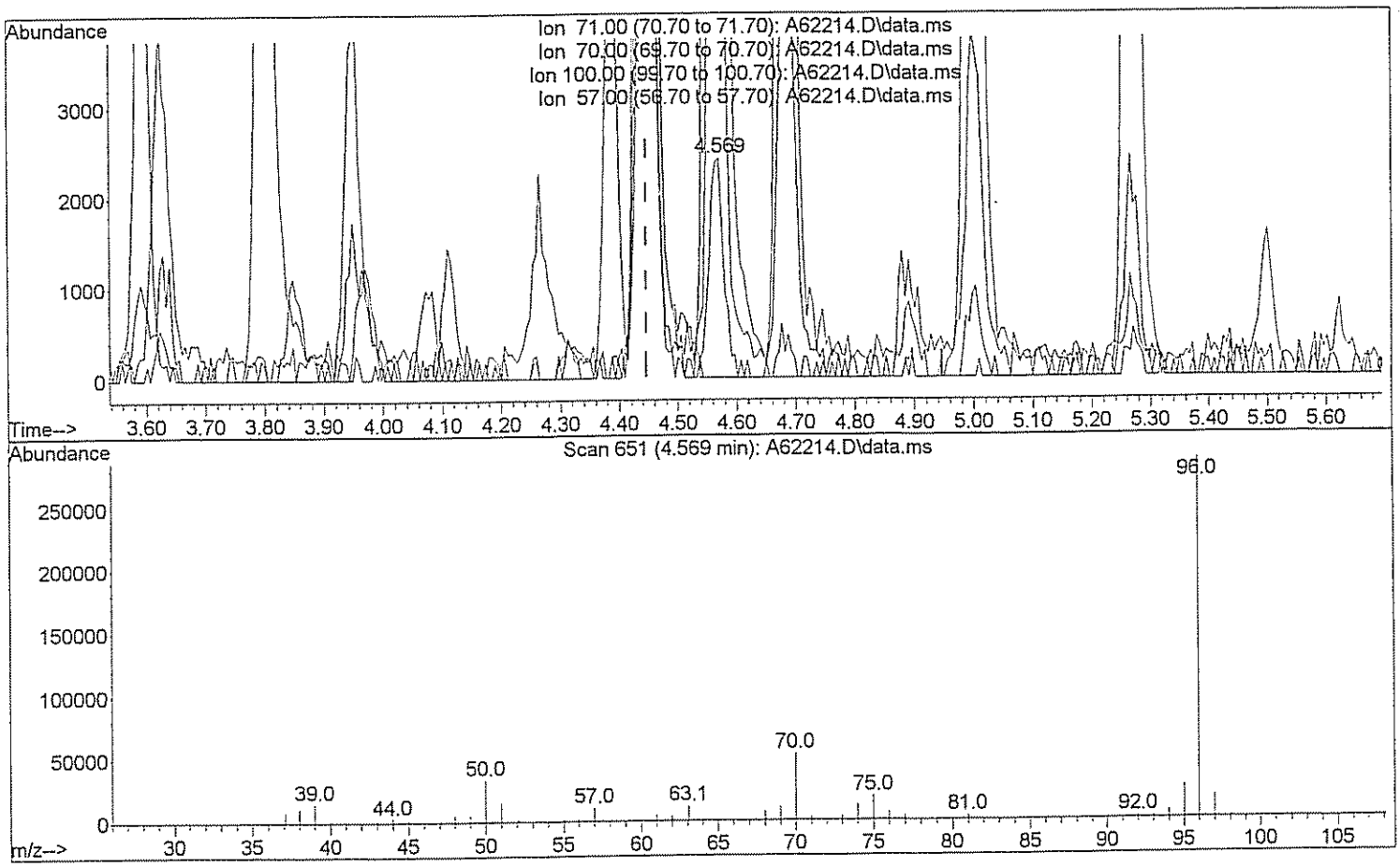
Quant Time: Mar 12 12:51:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(26) n-Heptane (T)

4.569min (+0.123) 2.74 ug/L

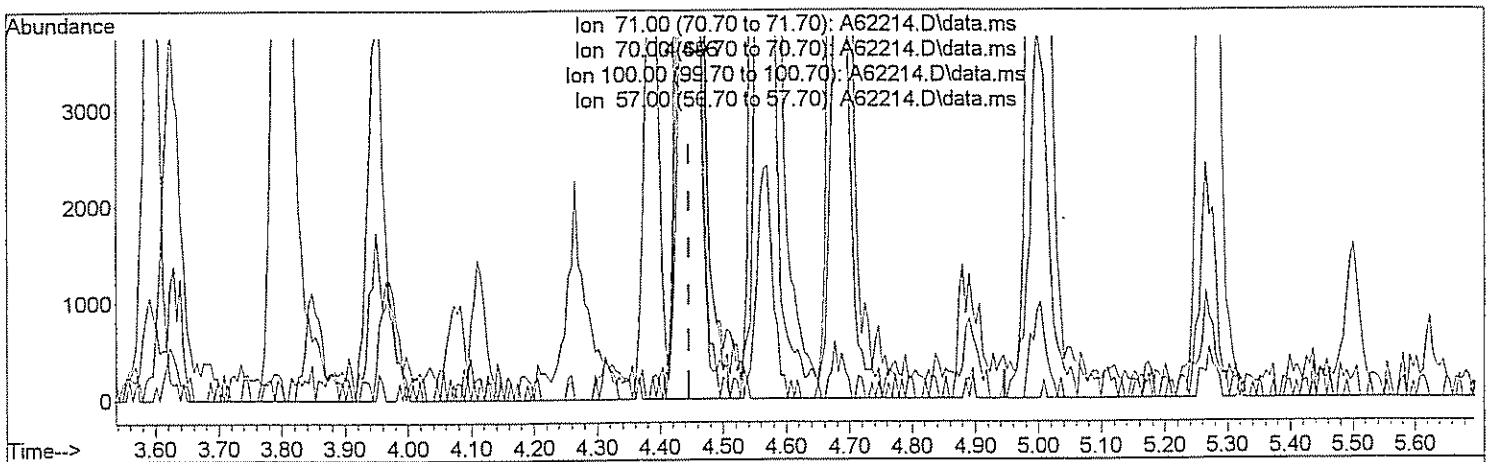
response 4156

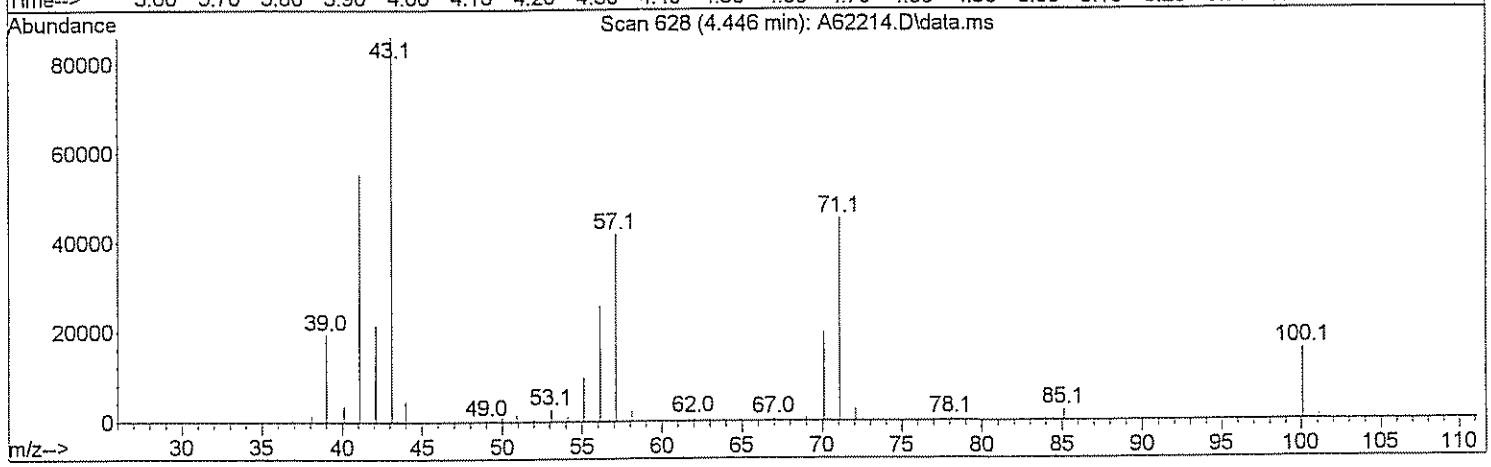
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2111.07#
100.00	60.00	0.00#
57.00	34.00	454.33#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration





TIC: A62214.D\data.ms

(26) n-Heptane (T)

4.446min (0.000) 50.07 ug/L m SM 3/12/09

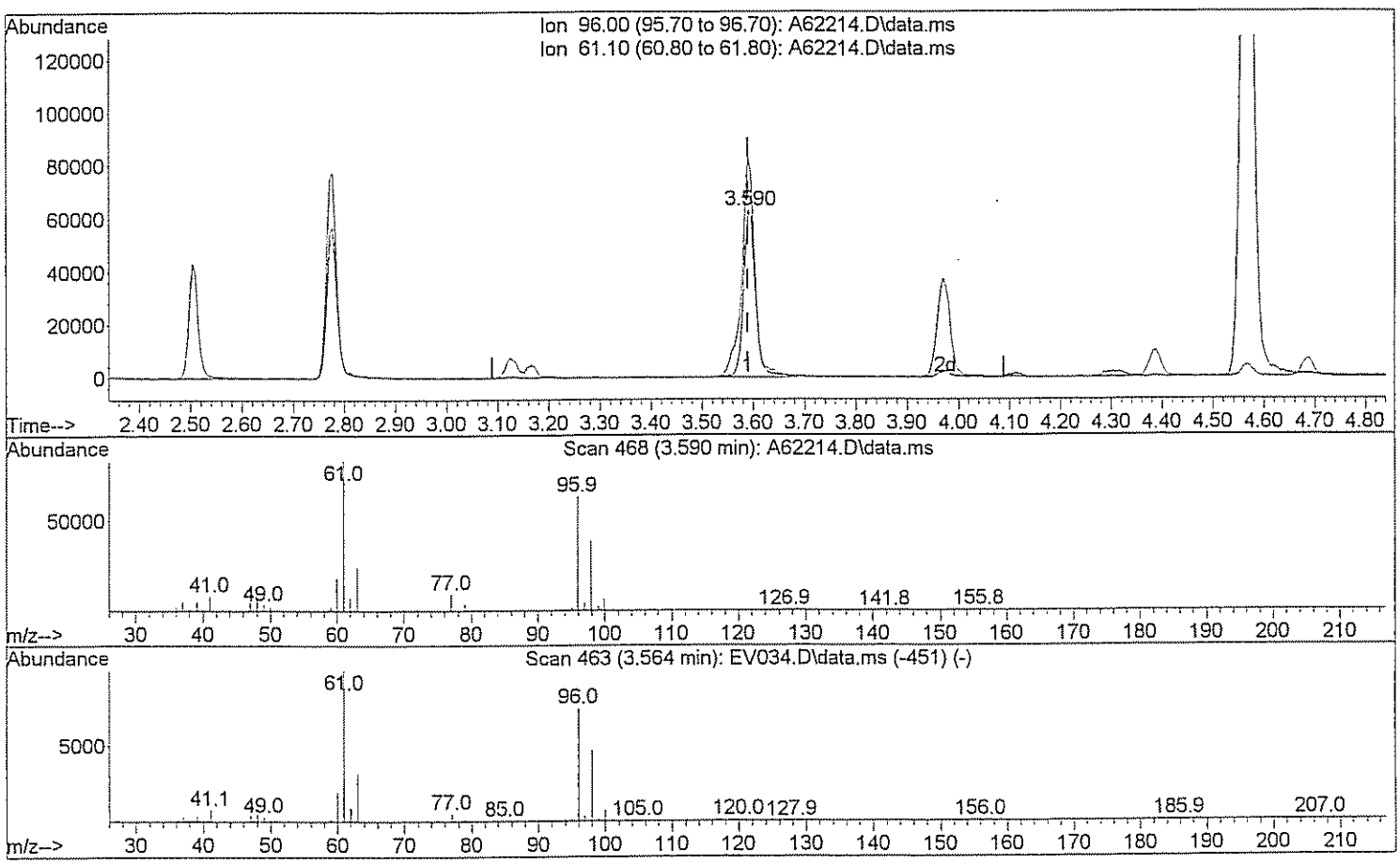
response 75854

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	115.66#
100.00	60.00	0.00#
57.00	34.00	24.89#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (0.000) 54.67 ug/L

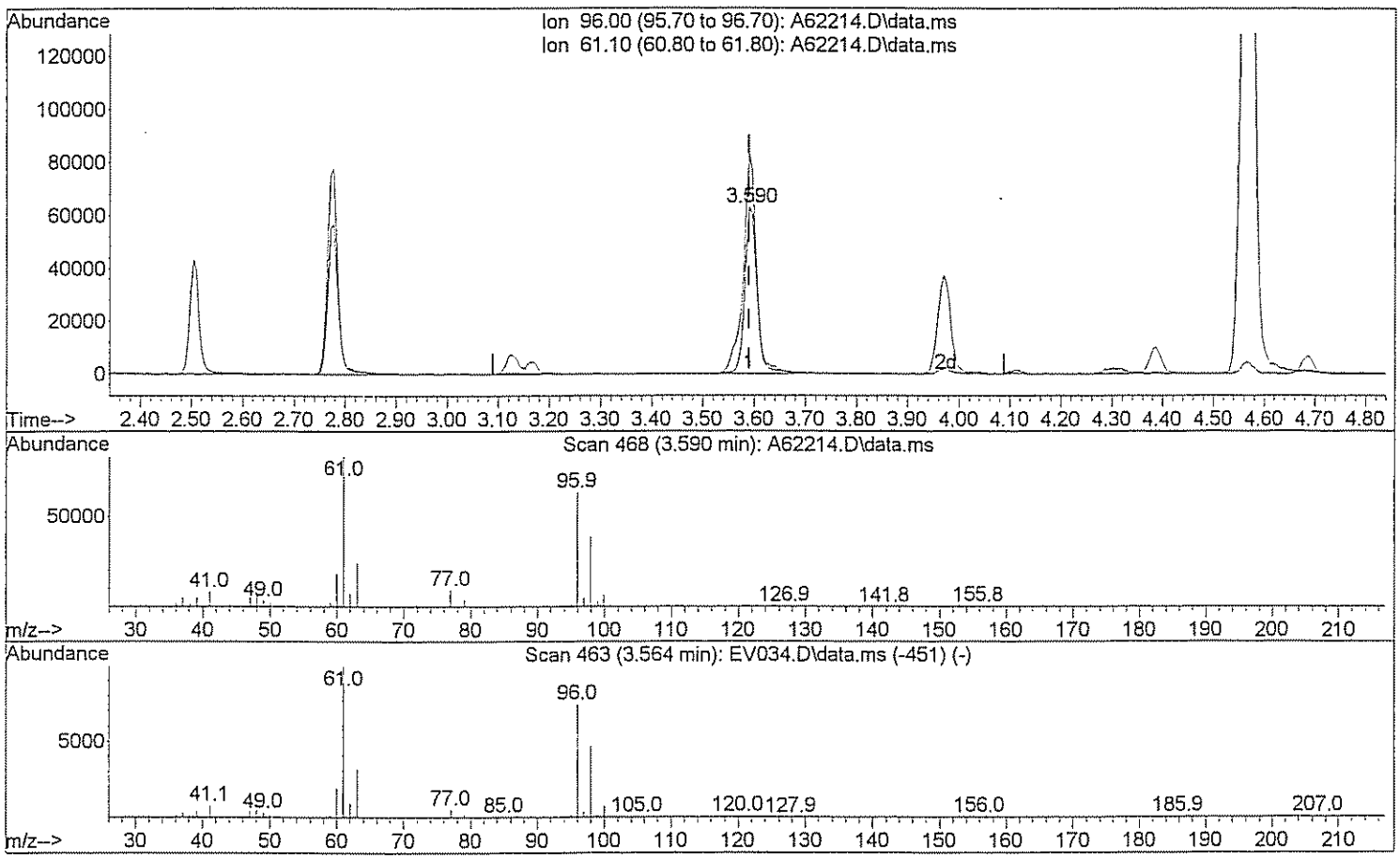
response 101626

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	146.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (0.000) 100.16 ug/L m AW 3/12/09

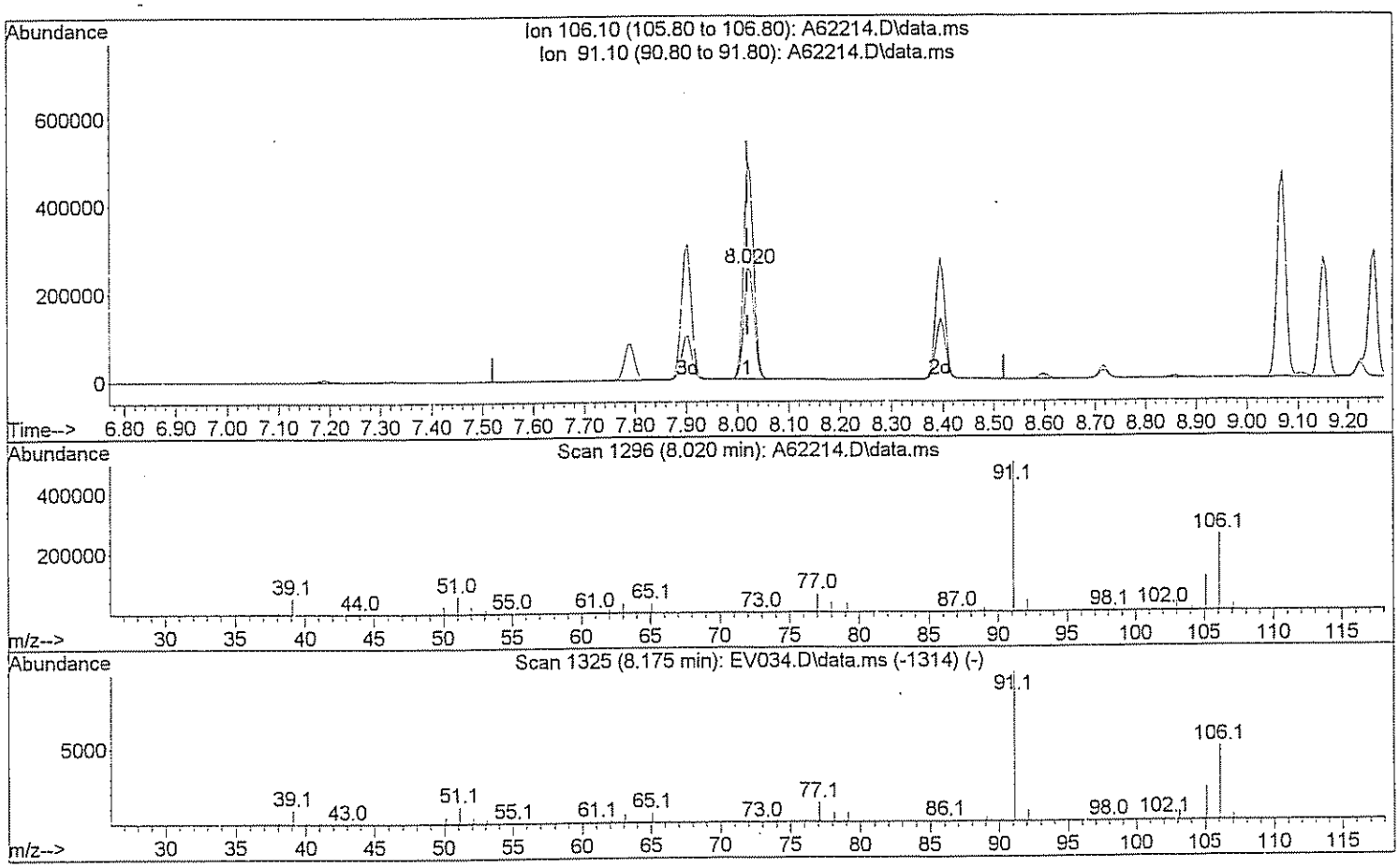
response 186209

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	79.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(71) Xylene (Total)

8.020min (0.000) 98.86 ug/L

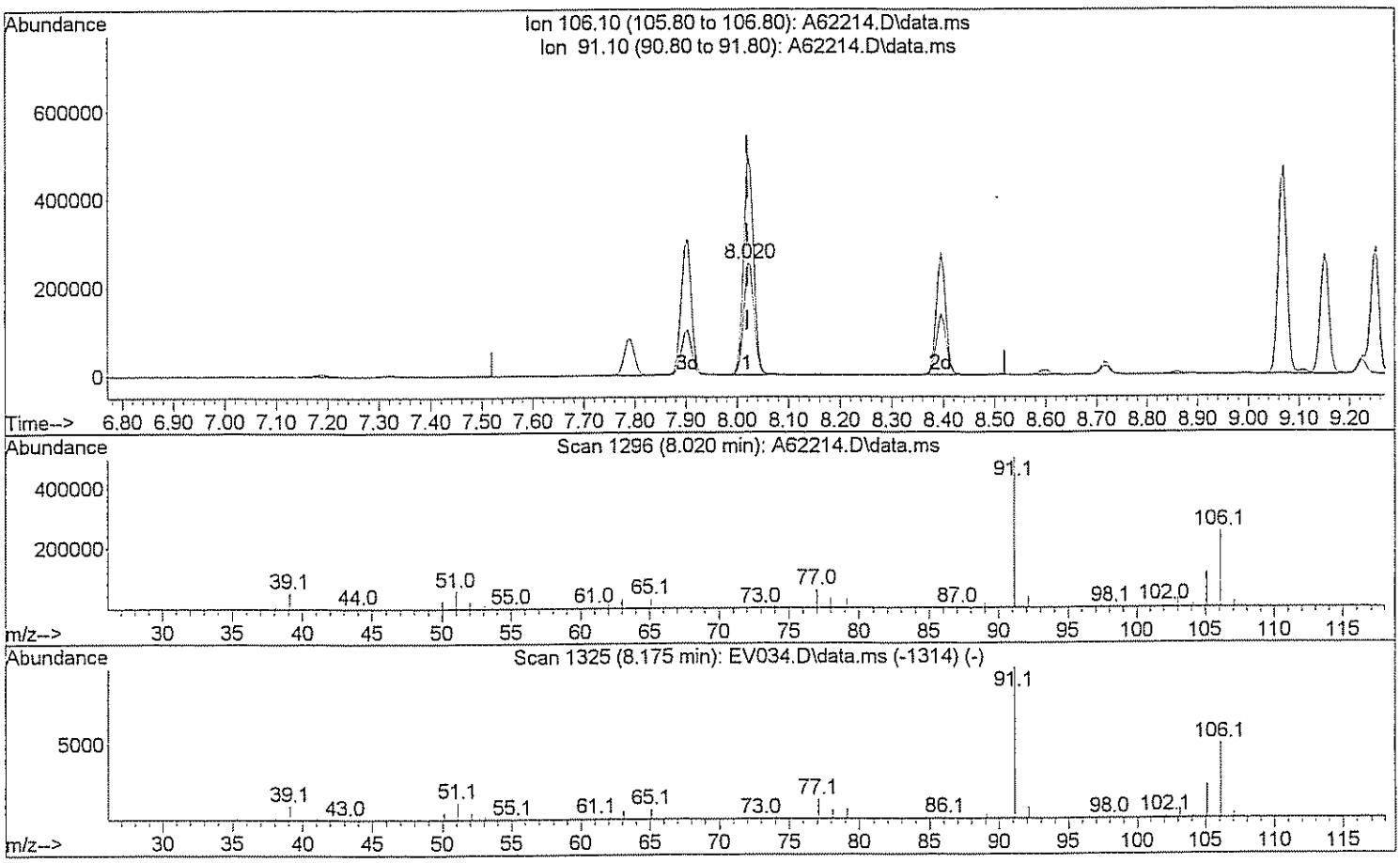
response 354164

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62214.D
Acq On : 10 Mar 2009 12:04
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 12:49:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:49:14 2009
Response via : Initial Calibration



TIC: A62214.D\data.ms

(71) Xylene (Total)

8.020min (0.000) 150.14 ug/L m DW 3/12/09

response 537873

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.52#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.569	96	415756	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	337372	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.785	117	329990	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	112733	50.81	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.62%				
53) Toluene-d8	6.148	98	383573	68.15	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 136.30%#				
75) 4-Bromofluorobenzene	8.881	95	162049	49.10	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.20%				
91) 1,2-Dichlorobenzene-d4	10.090	152	175535m	48.93	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 97.86%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	98397	136.92	ug/L		99
3) Chloromethane	1.354	50	168963	192.25	ug/L		95
4) Vinyl chloride	1.424	62	186395	134.25	ug/L		98
5) Bromomethane	1.654	94	66771	147.21	ug/L		96
6) Chloroethane	1.723	64	118748	122.21	ug/L		96
7) Trichlorofluoromethane	1.868	101	245893	136.15	ug/L		98
8) Ethyl Ether	2.071	59	158910	128.57	ug/L		95
9) Freon 113	2.205	101	154492	142.71	ug/L		87
10) Acrolein	2.216	56	159736	630.55	ug/L	#	74
11) Tert-Butyl alcohol	2.686	59	256748	2627.83	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	157280	135.23	ug/L		87
13) Iodomethane	2.360	142	213620	142.27	ug/L		97
14) Acetonitrile	2.504	40	1109944	1511.34	ug/L	#	1
15) Methylene chloride	2.617	84	187413	123.85	ug/L		100
16) Trans-1,2-dichloroethene	2.777	96	180726	130.56	ug/L		87
17) Isopropyl ether	3.109	45	703030	127.13	ug/L		100
18) 1,1-Dichloroethane	3.130	63	334041	128.30	ug/L		99
19) Acetone	2.317	43	112444	239.65	ug/L		94
20) Methyl Acetate	4.265	43	131159	104.35	ug/L	#	100
21) MTBE	2.761	73	521000	129.82	ug/L		100
22) Carbon disulfide	2.381	76	508164	130.07	ug/L		100
24) Acrylonitrile	2.852	53	278307	622.69	ug/L		99
25) Chloroprene	3.168	53	309351	137.67	ug/L		92
26) n-Heptane	4.446	71	135580m	105.57	ug/L		
27) 2,2-Dichloropropane	3.569	77	269285	122.40	ug/L	#	79
28) Cis-1,2-dichloroethene	3.596	96	206197	119.84	ug/L		96

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.596	96	391183m	248.16 ug/L	
30) Propionitrile	3.746	54	249360	1128.49 ug/L	100
31) Bromochloromethane	3.799	128	99463	114.28 ug/L	94
32) Tetrahydrofuran	3.799	72	46868	111.91 ug/L #	22
33) Chloroform	3.853	83	347573	120.52 ug/L	99
34) Cyclohexane	3.949	56	309662	116.28 ug/L	92
35) 1,1,1-Trichloroethane	3.970	97	273760	110.05 ug/L	98
36) Carbon tetrachloride	4.077	117	242295	111.65 ug/L	99
37) Methylcyclohexane	5.003	83	301589	110.98 ug/L	93
38) Isobutyl Alcohol	4.446	43	257322	2192.83 ug/L	88
41) 2-Butanone	3.623	43	223008	237.34 ug/L	97
42) 1,1-Dichloropropene	4.115	75	237178	108.03 ug/L	98
43) Vinyl Acetate	3.152	43	286529	142.18 ug/L	100
44) Benzene	4.297	78	731696	104.03 ug/L	100
45) 1,2-Dichloroethane	4.388	62	242233m	106.17 ug/L	
46) Trichloroethene	4.896	95	181261	101.27 ug/L	91
47) 1,2-Dichloropropane	5.169	63	196751	100.17 ug/L	95
48) Methyl methacrylate	5.270	69	132717	99.28 ug/L	97
49) Dibromomethane	5.286	93	121747	102.68 ug/L	97
50) Bromodichloromethane	5.436	83	252862	101.01 ug/L	100
51) 2-Chloroethylvinyl ether	5.784	63	534231	420.62 ug/L	98
52) Cis-1,3-dichloropropene	5.923	75	312652	101.46 ug/L	99
54) Toluene	6.223	92	464184	135.22 ug/L	96
55) Trans-1,3-dichloropropene	6.576	75	277112	132.56 ug/L	97
56) Ethyl methacrylate	6.629	69	243555	130.71 ug/L	94
57) 1,1,2-Trichloroethane	6.779	83	144844	132.67 ug/L	97
59) 4-Methyl-2-pentanone	6.099	43	441634	205.70 ug/L	97
60) 2-Hexanone	7.068	43	298027	193.58 ug/L	98
61) Tetrachloroethene	6.800	166	194634	104.83 ug/L	95
62) 1,3-Dichloropropane	6.977	76	280682	99.79 ug/L	93
63) Dibromochloromethane	7.185	129	207903	103.87 ug/L	100
64) 1,2-Dibromoethane	7.319	107	176918	98.51 ug/L	97
65) 1-Chlorohexane	7.790	91	263708	100.84 ug/L	92
66) Chlorobenzene	7.811	112	588501	103.04 ug/L	88
67) 1,1,1,2-Tetrachloroethane	7.913	131	227952	104.60 ug/L	98
68) Ethylbenzene	7.902	91	968275	101.85 ug/L	98
69) m,p-Xylene	8.025	106	805262	205.61 ug/L	90
70) o-Xylene	8.395	106	411204	102.56 ug/L	91
71) Xylene (Total)	8.025	106	1215901m	306.63 ug/L	
72) Styrene	8.427	104	675495	100.86 ug/L	95
73) Bromoform	8.598	173	144392	103.58 ug/L	100
74) Isopropylbenzene	8.715	105	905859	103.86 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

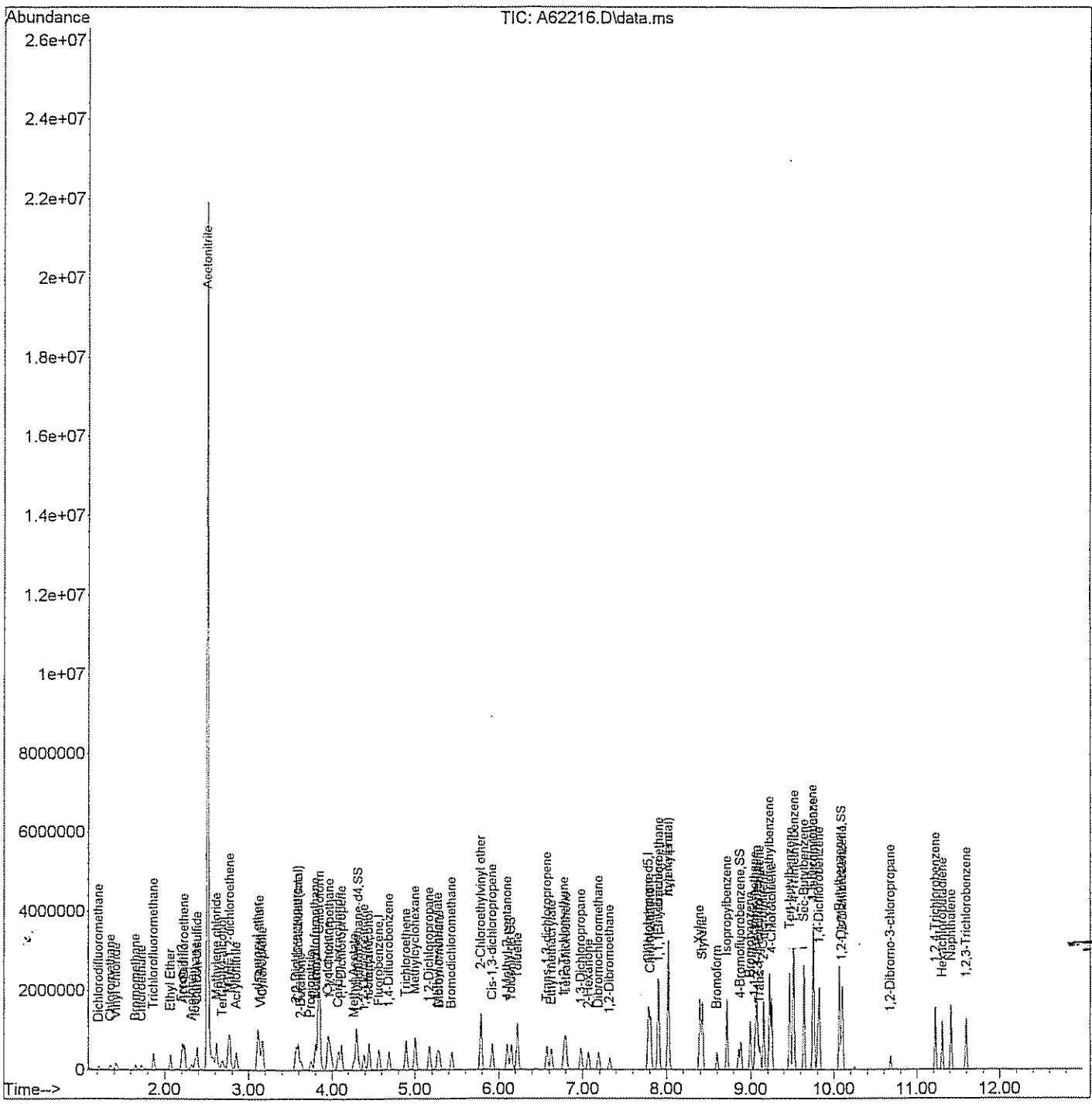
Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	242975	98.16 ug/L	100
77) 1,1,2,2-Tetrachloroethane	9.047	83	257769	100.04 ug/L	100
78) 1,2,3-Trichloropropane	9.085	110	74956	99.96 ug/L	98
79) n-Propylbenzene	9.069	91	1194175	98.61 ug/L	98
80) Trans-1,4-dichloro-2-b...	9.106	53	78805	102.85 ug/L #	23
81) 2-Chlorotoluene	9.154	126	256406	97.26 ug/L	88
82) 4-Chlorotoluene	9.250	126	266863	97.60 ug/L	93
83) 1,3,5-Trimethylbenzene	9.224	105	929473	100.78 ug/L	95
84) Tert-butylbenzene	9.470	119	833782	102.26 ug/L	97
86) 1,2,4-Trimethylbenzene	9.523	105	956129	100.29 ug/L	94
87) Sec-Butylbenzene	9.641	105	1261883	99.94 ug/L	99
88) 1,3-Dichlorobenzene	9.748	146	537347	99.74 ug/L	99
89) 4-Isopropyltoluene	9.759	119	1120260	102.00 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	542741	98.75 ug/L	98
92) 1,2-Dichlorobenzene	10.101	146	516944	99.26 ug/L	99
93) n-Butylbenzene	10.064	91	1022373	100.42 ug/L	95
94) 1,2-Dibromo-3-chloropr...	10.679	75	51163	97.81 ug/L	81
95) 1,2,4-Trichlorobenzene	11.225	180	335916	97.86 ug/L	100
96) Hexachlorobutadiene	11.305	225	145565	106.24 ug/L	100
97) Naphthalene	11.412	128	933278	98.67 ug/L	100
98) 1,2,3-Trichlorobenzene	11.599	180	299645	96.84 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

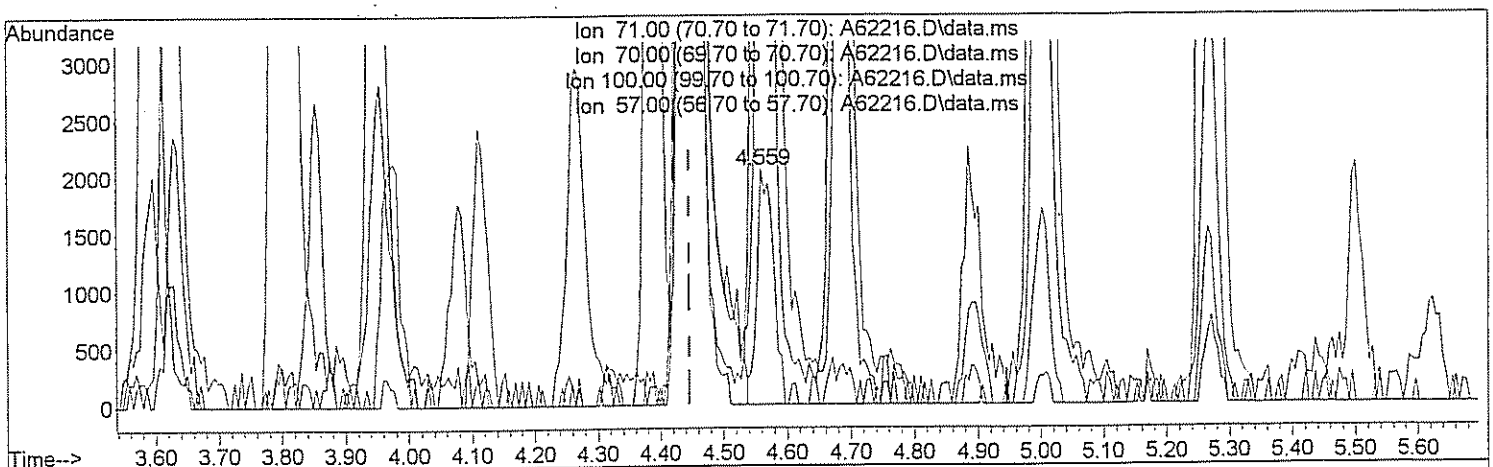
Quant Time: Mar 12 12:57:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration

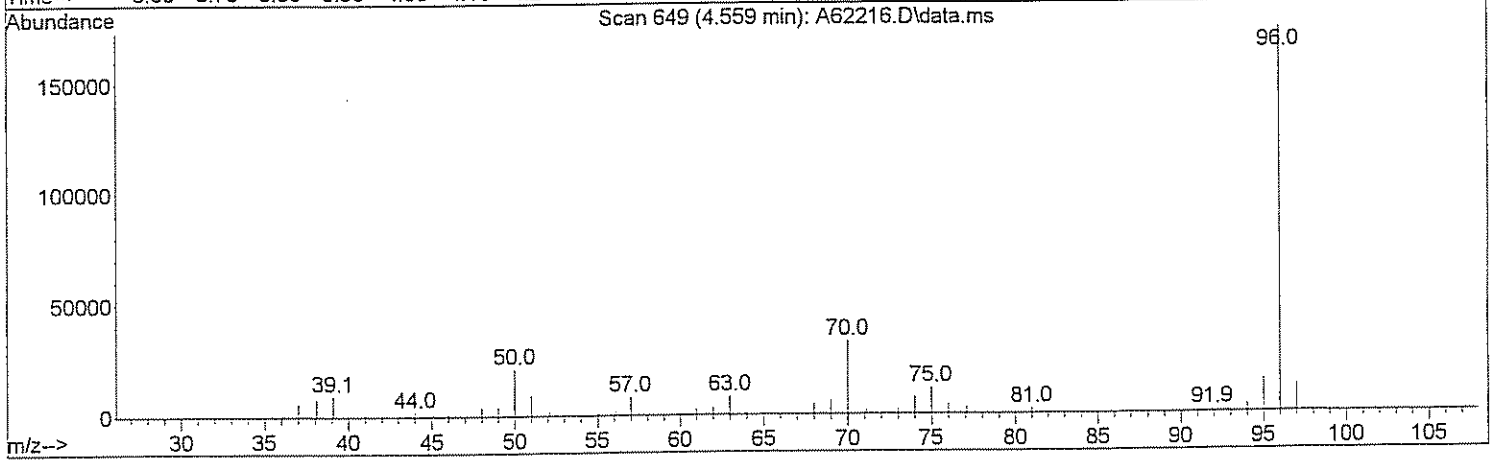


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration





TIC: A62216.D\data.ms

(26) n-Heptane (T)

4.559min (+0.112) 2.83 ug/L

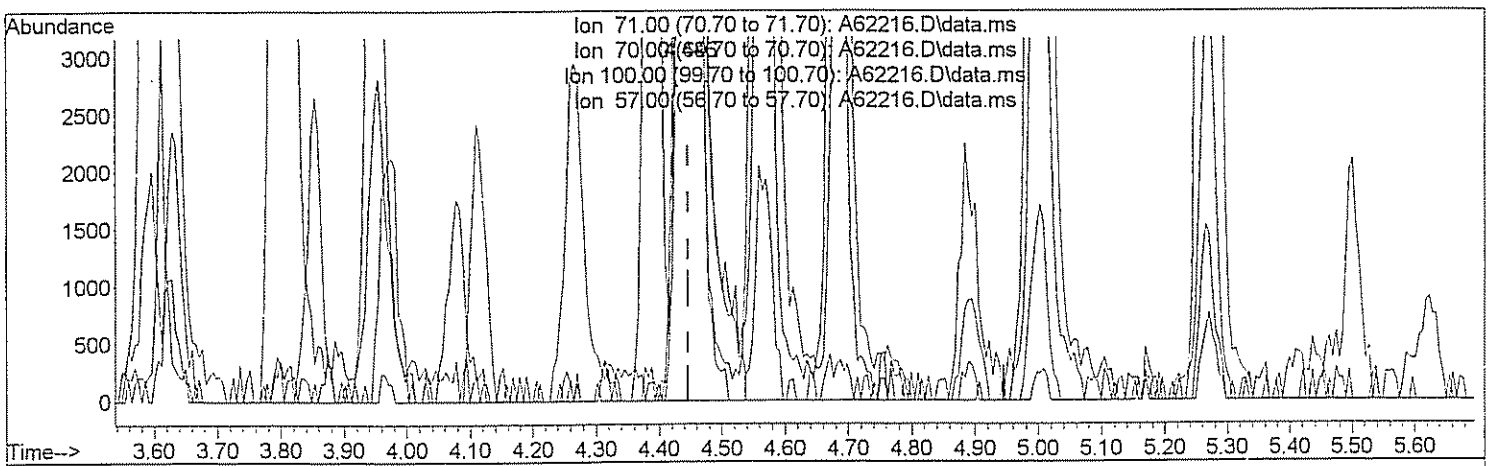
response 3635

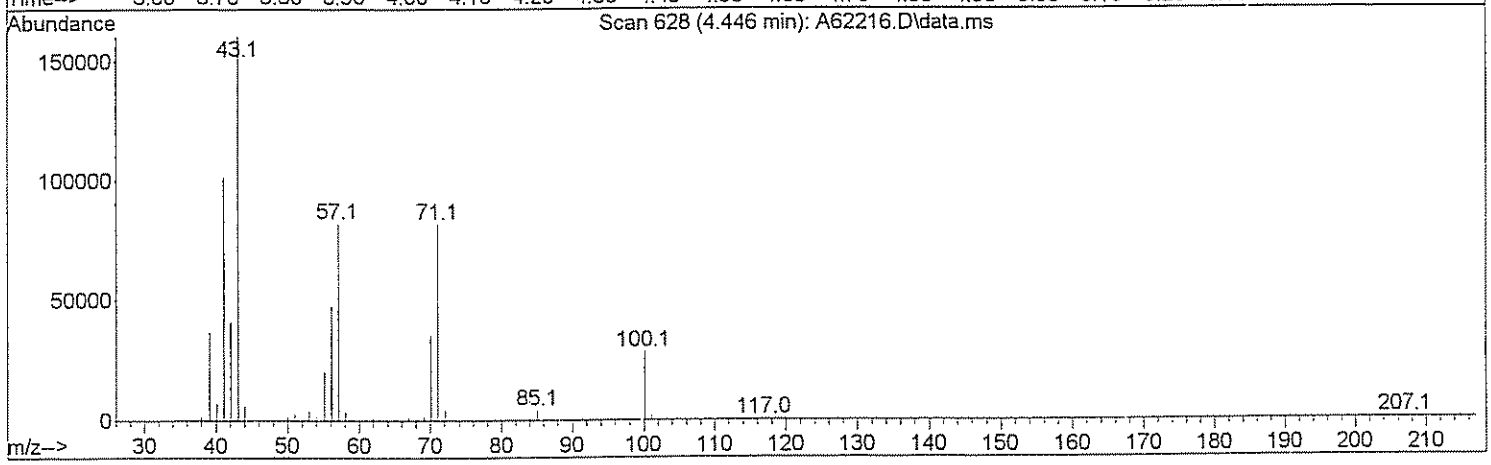
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2001.02#
100.00	60.00	0.00#
57.00	34.00	450.07#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration





TIC: A62216.D\data.ms

(26) n-Heptane (T)

4.446min (-0.000) 105.57 ug/L m Lm 3/12/09

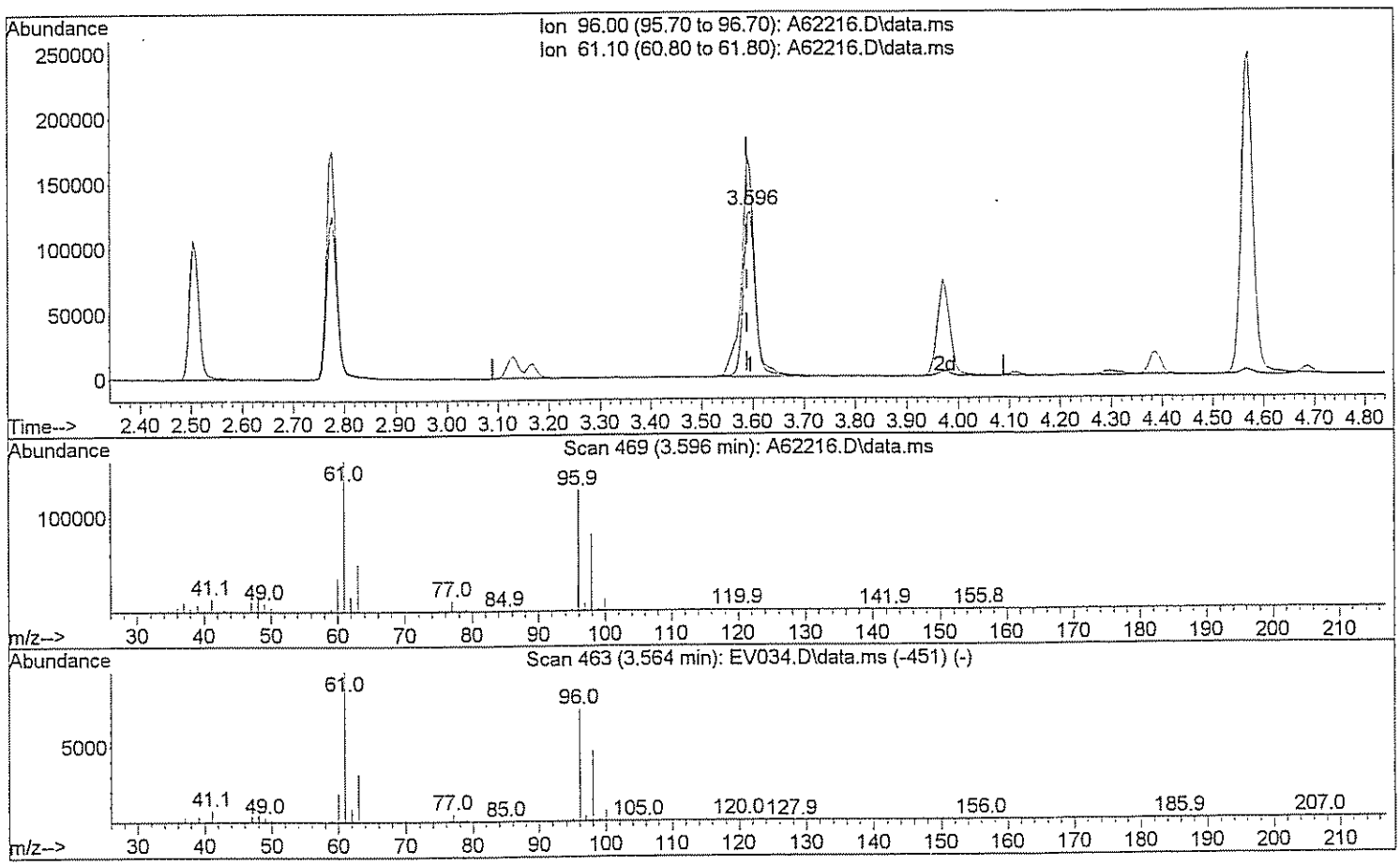
response 135580

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	53.65#
100.00	60.00	0.00#
57.00	34.00	12.07#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(29) 1,2-dichloroethene(total)

3.596min (+0.005) 130.81 ug/L

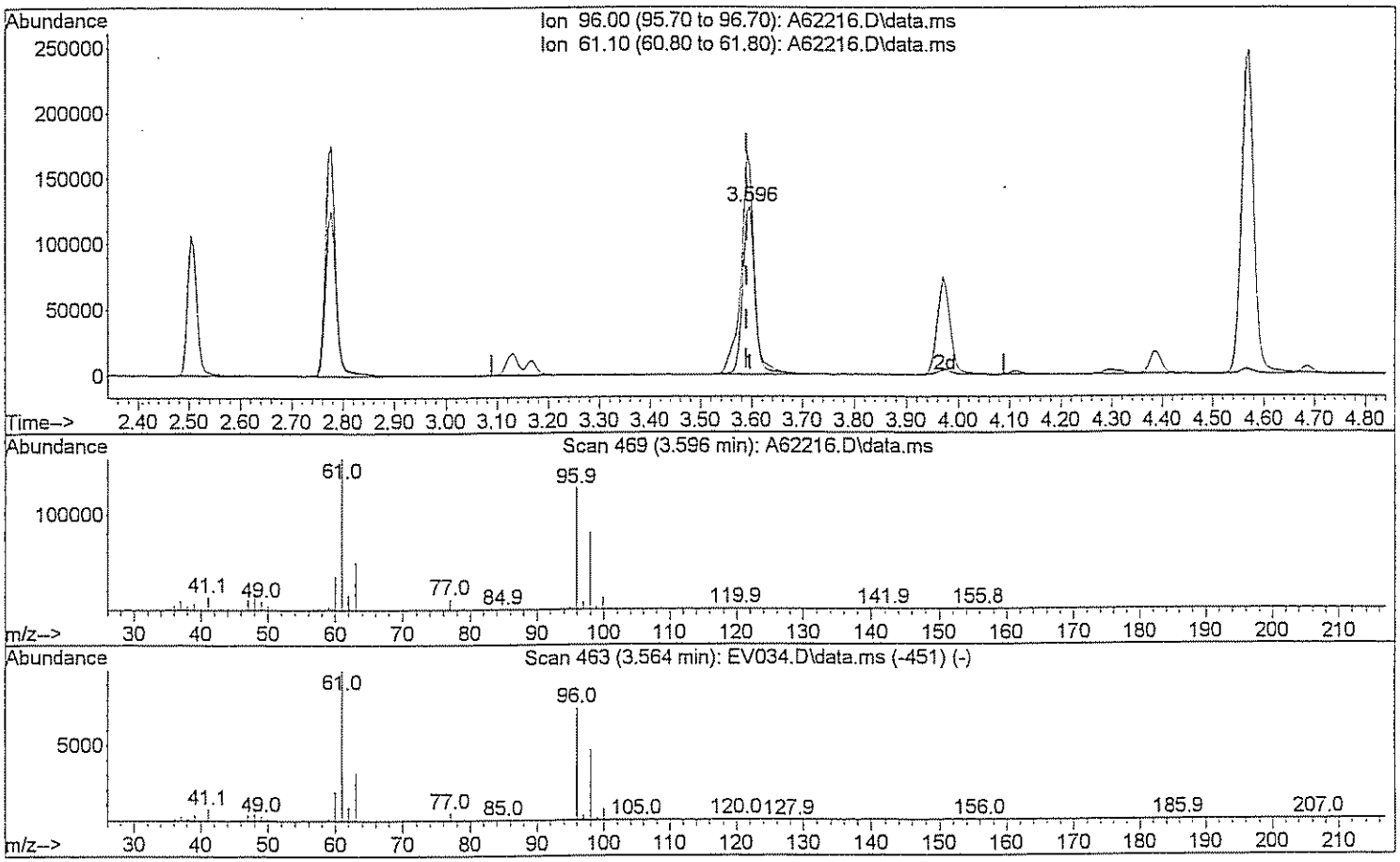
response 206197

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	148.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(29) 1,2-dichloroethene(total)

3.596min (+0.005) 248.16 ug/L m JM 3/12/09

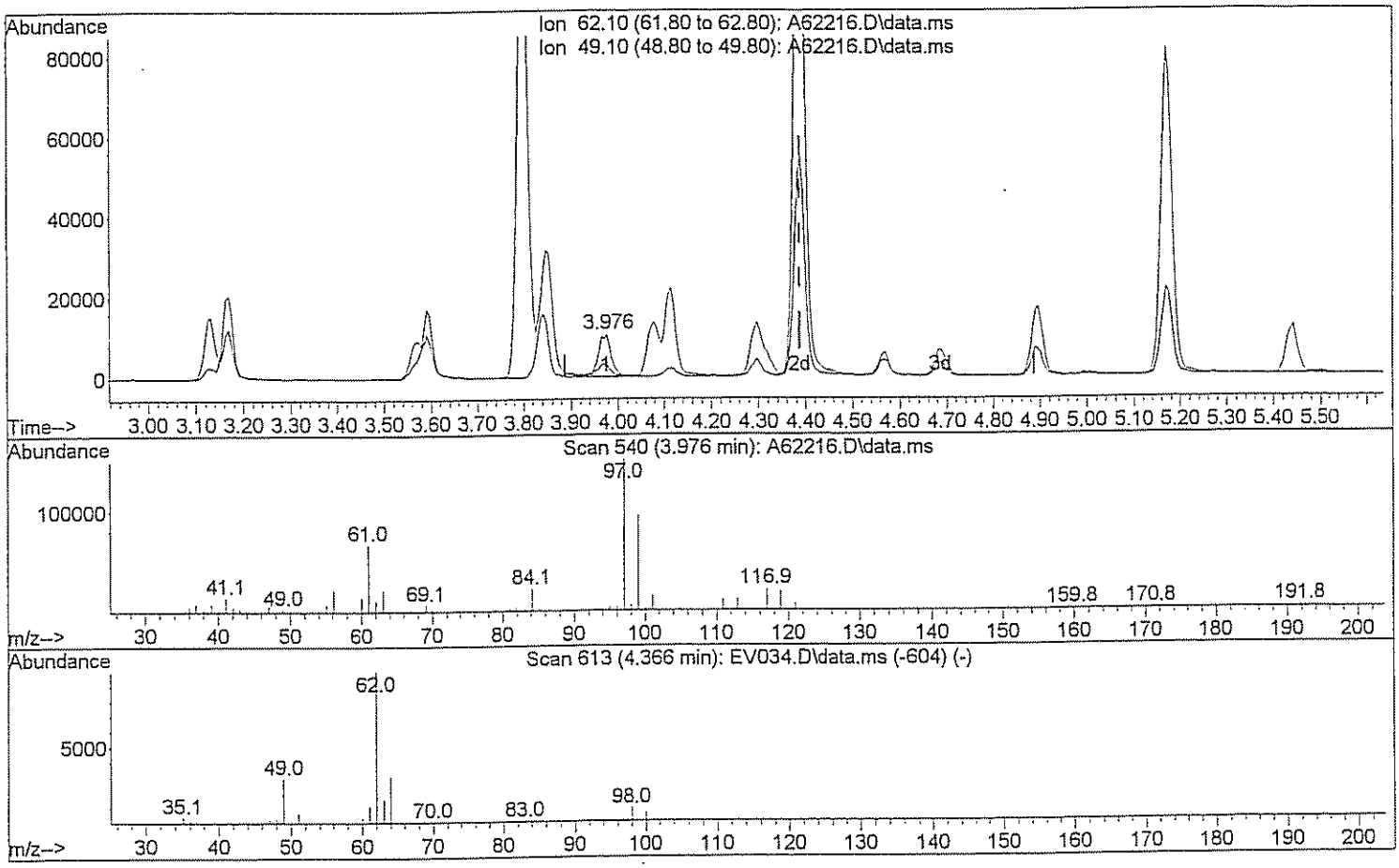
response 391183

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	78.09#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(45) 1,2-Dichloroethane

3.976min (-0.412) 8.79 ug/L

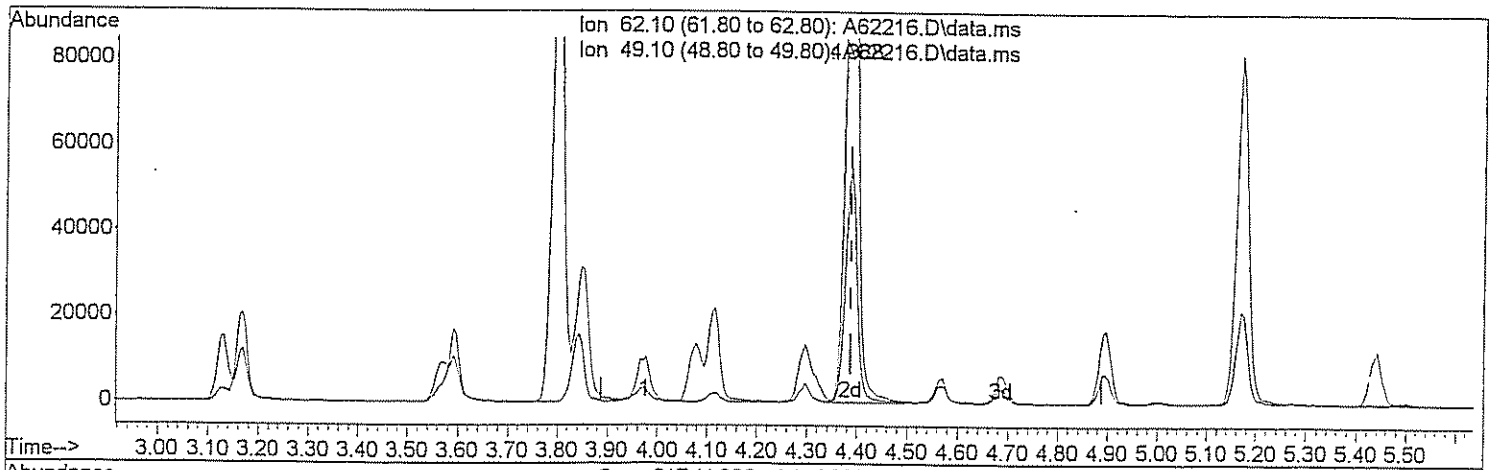
response 20048

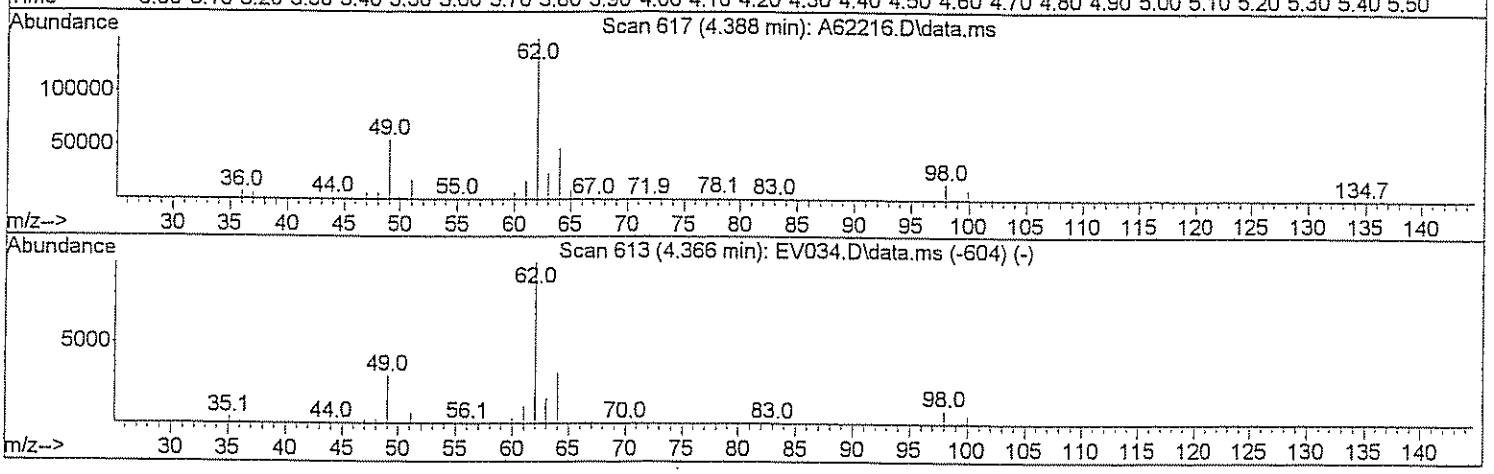
Ion	Exp%	Act%
62.10	100	100
49.10	28.90	33.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration





TIC: A62216.D\data.ms

(45) 1,2-Dichloroethane

4.388min (-0.000) 106.17 ug/L m DW 3/12/09

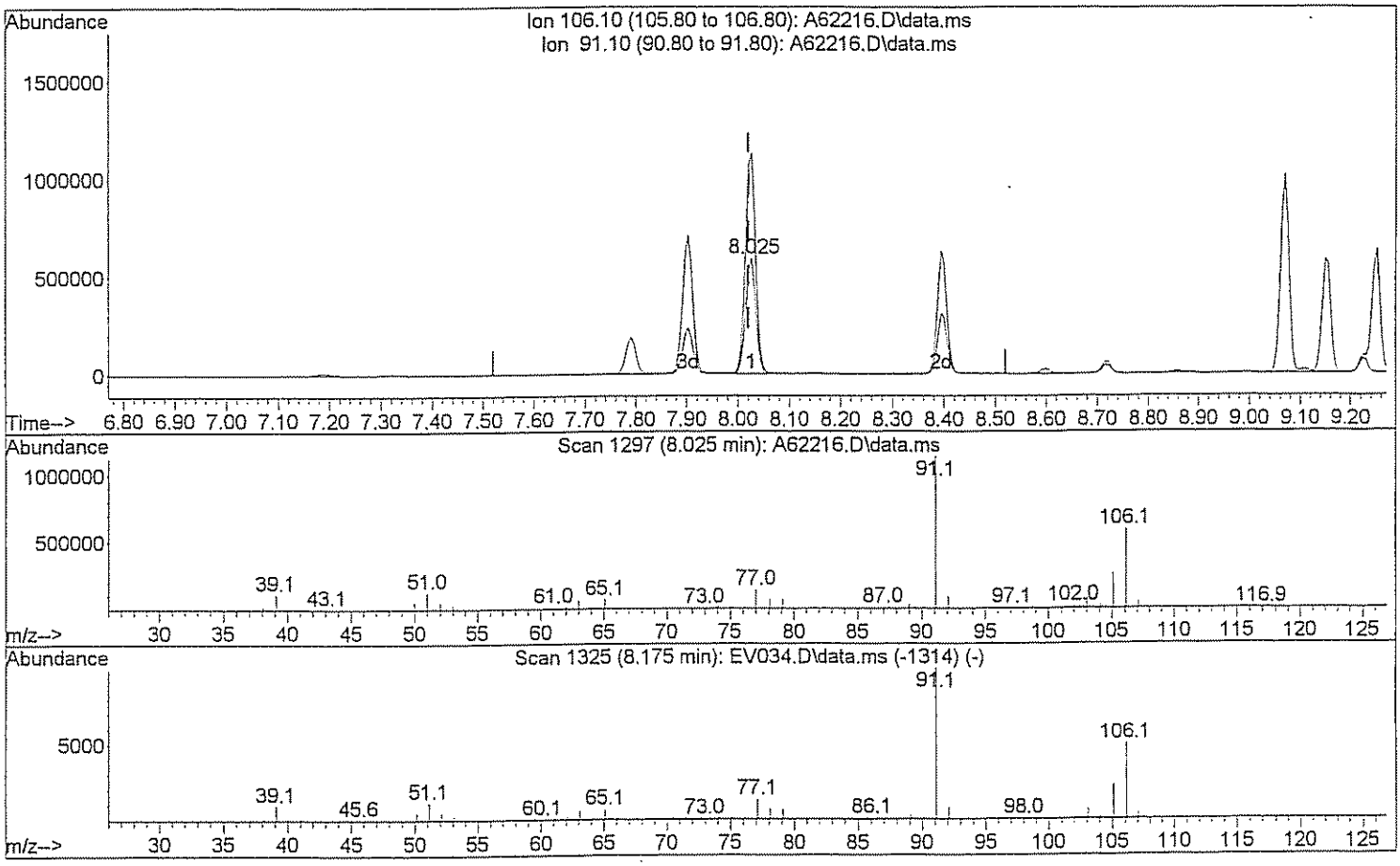
response 242233

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(71) Xylene (Total)

8.025min (+0.005) 203.08 ug/L

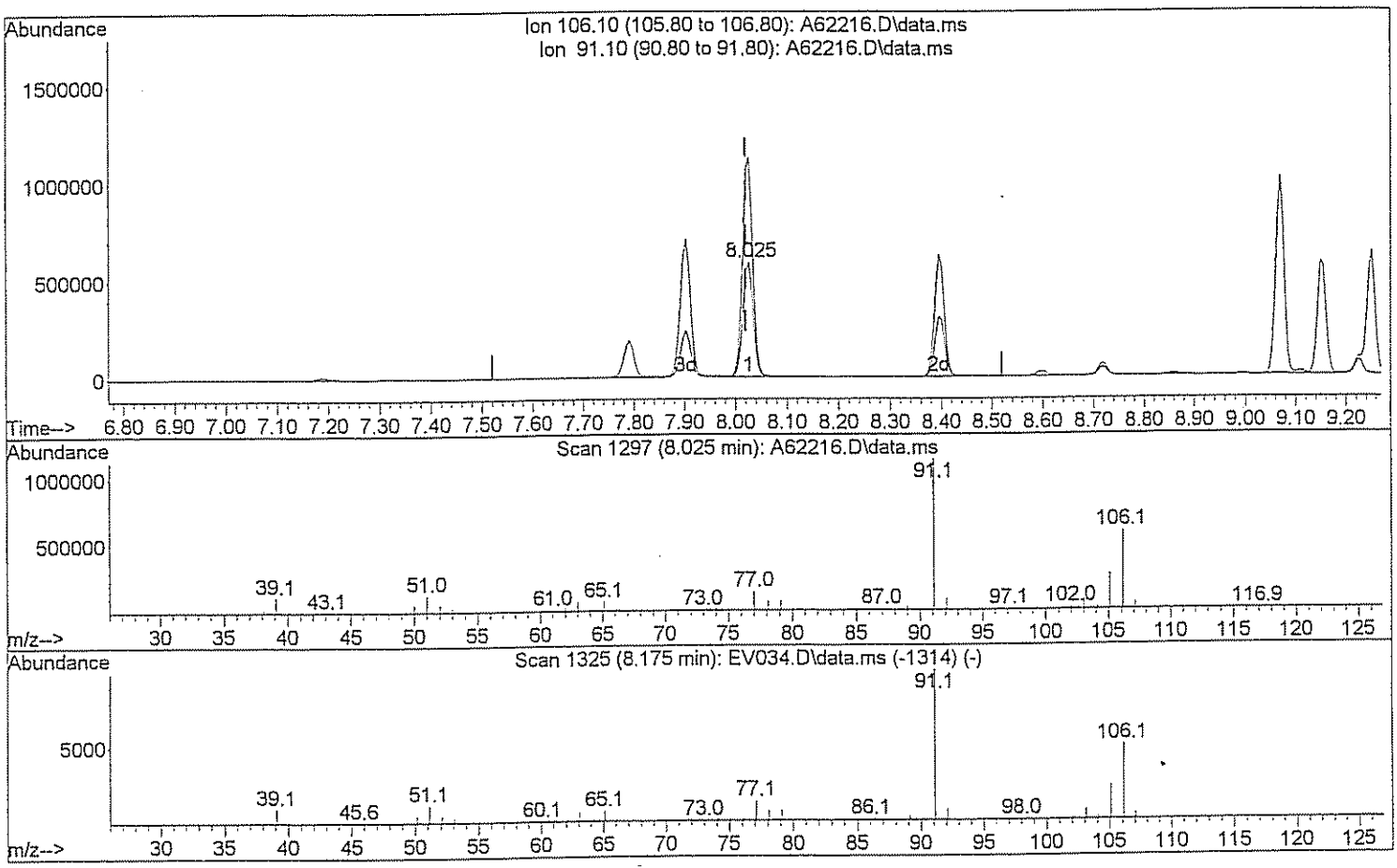
response 805262

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(71) Xylene (Total)

8.025min (+0.005) 306.63 ug/L m DM 3/12/09

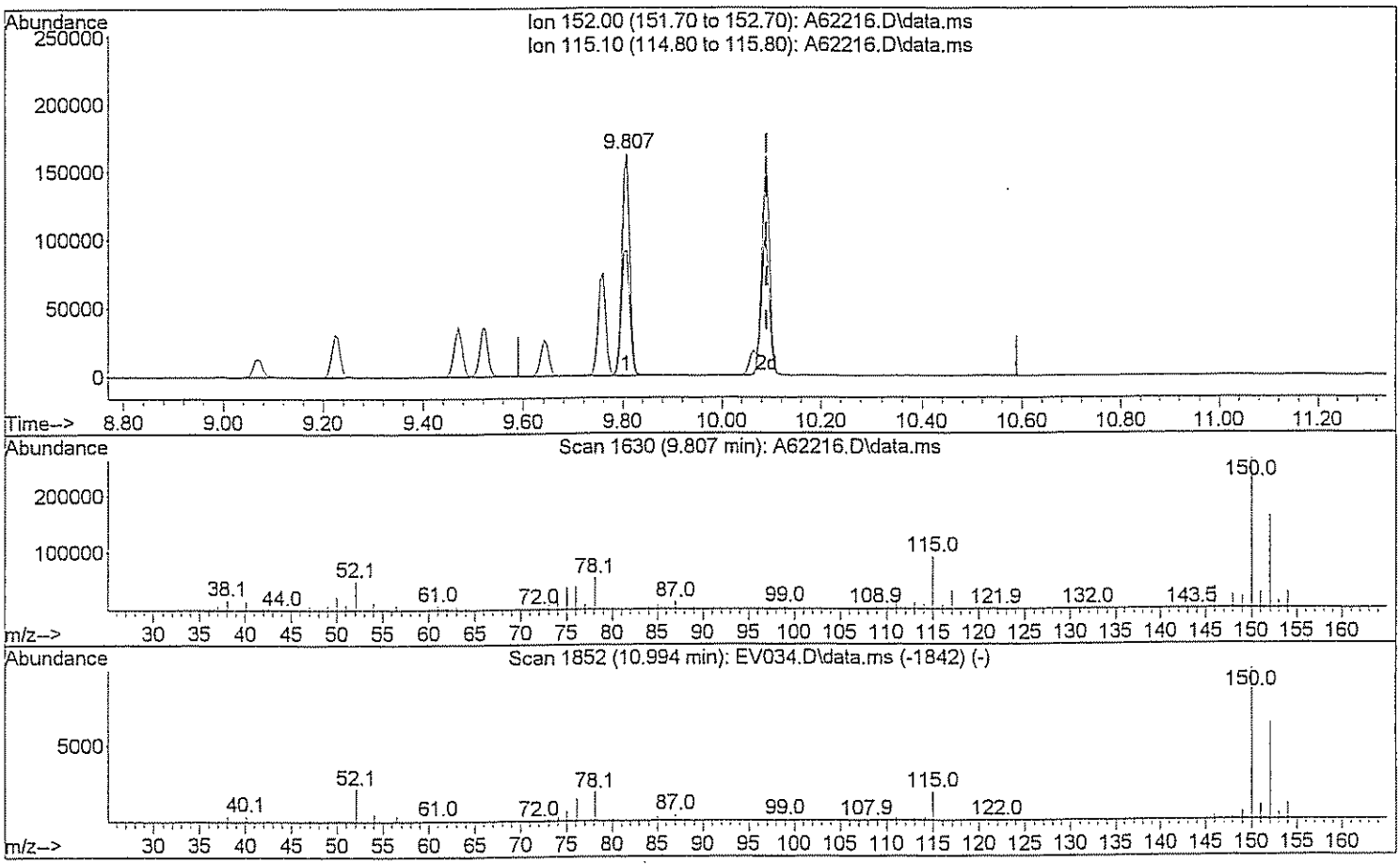
response 1215901

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	127.80#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.284) 51.19 ug/L

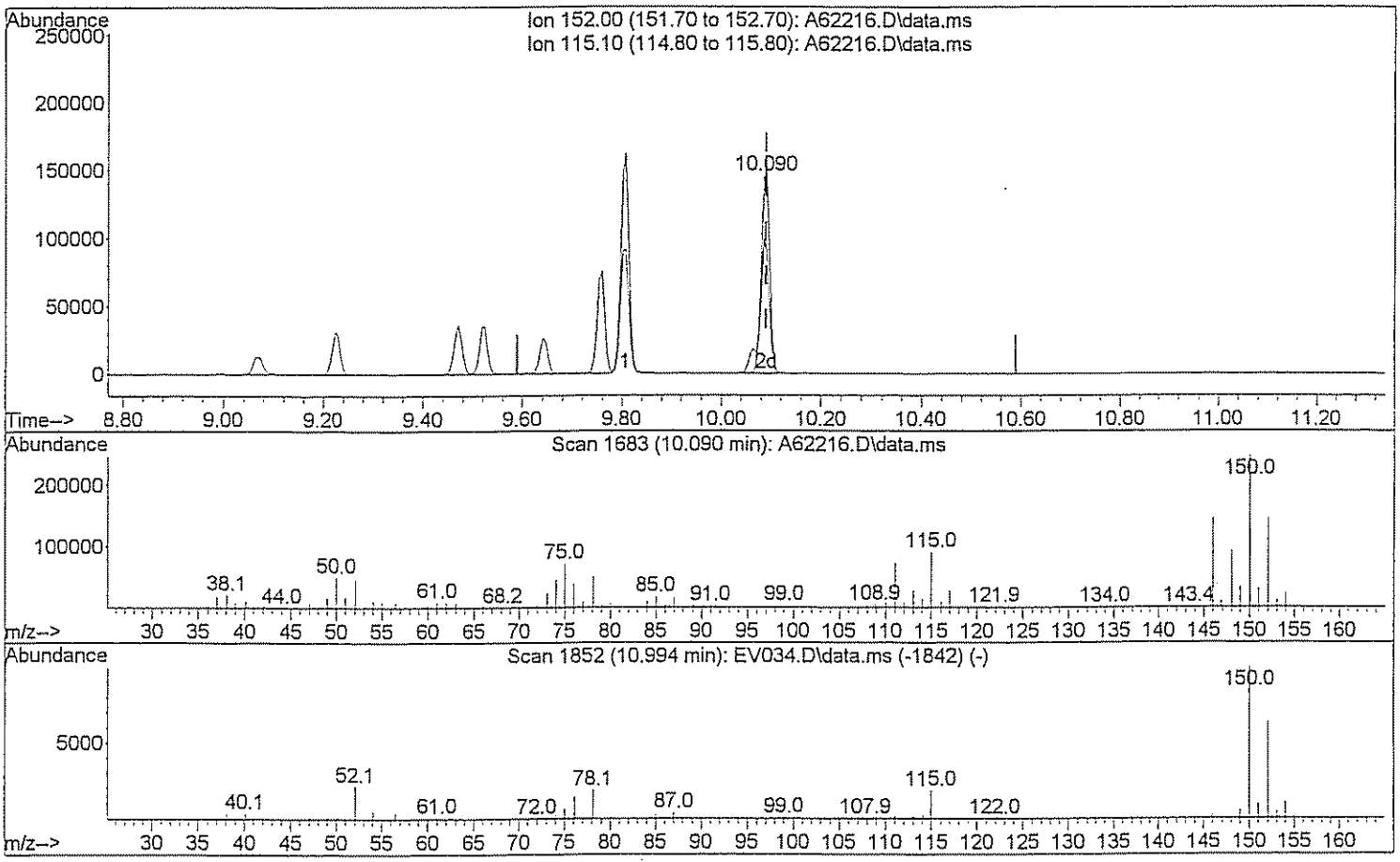
response 183623

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62216.D
Acq On : 10 Mar 2009 13:09
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 12:54:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:53:19 2009
Response via : Initial Calibration



TIC: A62216.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

10.090min (0.000) 48.93 ug/L m Sm 3/12/09

response 175535

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	62.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	301617	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.682	114	243072	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.785	117	282592	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	89417	55.11	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 110.22%			
53) Toluene-d8	6.148	98	305795	63.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 127.64%#			
75) 4-Bromofluorobenzene	8.887	95	145204	51.84	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 103.68%			
91) 1,2-Dichlorobenzene-d4	10.090	152	162681m	53.53	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.205	85	148889	241.08	ug/L	100
3) Chloromethane	1.349	50	345876	371.24	ug/L	95
4) Vinyl chloride	1.413	62	283953	240.69	ug/L	94
5) Bromomethane	1.633	94	125968	309.71	ug/L	90
6) Chloroethane	1.697	64	196387	250.75	ug/L	97
7) Trichlorofluoromethane	1.841	101	601503	388.81	ug/L	100
8) Ethyl Ether	2.061	59	277581	270.88	ug/L	96
9) Freon 113	2.189	101	215811	226.44	ug/L	93
10) Acrolein	2.210	56	352264	1695.43	ug/L #	75
11) Tert-Butyl alcohol	2.713	59	902659	11007.26	ug/L #	47
12) 1,1-Dichloroethene	2.216	96	251488	253.42	ug/L	90
13) Iodomethane	2.344	142	219213	166.13	ug/L	97
14) Acetonitrile	2.494	40	1585524	2369.96	ug/L #	1
15) Methylene chloride	2.606	84	284381	231.45	ug/L	100
16) Trans-1,2-dichloroethene	2.767	96	256339	221.43	ug/L	90
17) Isopropyl ether	3.109	45	1079678	236.98	ug/L	97
18) 1,1-Dichloroethane	3.120	63	484117	224.53	ug/L	99
19) Acetone	2.323	43	282241	754.40	ug/L	96
20) Methyl Acetate	4.281	43	462717	496.64	ug/L #	100
21) MTBE	2.756	73	782608	233.92	ug/L	100
22) Carbon disulfide	2.366	76	758520	232.64	ug/L	100
24) Acrylonitrile	2.852	53	585590	1608.66	ug/L	99
25) Chloroprene	3.157	53	401390	207.20	ug/L	89
26) n-Heptane	4.441	71	178169m	186.05	ug/L	
27) 2,2-Dichloropropane	3.559	77	373239	210.30	ug/L #	68
28) Cis-1,2-dichloroethene	3.585	96	291314	212.32	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.585	96	569196m	444.24 ug/L	
30) Propionitrile	3.756	54	606277	3553.72 ug/L	99
31) Bromochloromethane	3.794	128	153919	227.52 ug/L	92
32) Tetrahydrofuran	3.799	72	99174	308.07 ug/L #	1
33) Chloroform	3.853	83	554580	240.41 ug/L	97
34) Cyclohexane	3.944	56	433904	207.69 ug/L	92
35) 1,1,1-Trichloroethane	3.965	97	409468	216.04 ug/L	98
36) Carbon tetrachloride	4.072	117	326004	195.68 ug/L	99
37) Methylcyclohexane	4.998	83	395598	190.22 ug/L	93
38) Isobutyl Alcohol	4.441	43	338177	3789.72 ug/L	90
41) 2-Butanone	3.628	43	455142	614.91 ug/L	96
42) 1,1-Dichloropropene	4.104	75	338797	205.92 ug/L	98
43) Vinyl Acetate	3.147	43	388046	220.71 ug/L	96
44) Benzene	4.291	78	1133596	219.28 ug/L	100
45) 1,2-Dichloroethane	4.382	62	367561	216.91 ug/L #	85
46) Trichloroethene	4.891	95	274214	211.30 ug/L	92
47) 1,2-Dichloropropane	5.169	63	304880	215.26 ug/L	95
48) Methyl methacrylate	5.270	69	232777	242.56 ug/L	95
49) Dibromomethane	5.286	93	192552	222.42 ug/L	97
50) Bromodichloromethane	5.436	83	389025	214.61 ug/L	100
51) 2-Chloroethylvinyl ether	5.784	63	879262	936.70 ug/L	98
52) Cis-1,3-dichloropropene	5.923	75	484787	216.78 ug/L	100
54) Toluene	6.223	92	780815	268.43 ug/L	98
55) Trans-1,3-dichloropropene	6.576	75	462937	264.33 ug/L	99
56) Ethyl methacrylate	6.629	69	424850	316.46 ug/L	92
57) 1,1,2-Trichloroethane	6.779	83	249676	272.84 ug/L	94
59) 4-Methyl-2-pentanone	6.105	43	849634	455.61 ug/L	97
60) 2-Hexanone	7.068	43	561084	432.52 ug/L	99
61) Tetrachloroethene	6.800	166	313302	192.40 ug/L	97
62) 1,3-Dichloropropane	6.977	76	475351	197.55 ug/L	94
63) Dibromochloromethane	7.191	129	356573	204.08 ug/L	99
64) 1,2-Dibromoethane	7.319	107	310852	203.64 ug/L	98
65) 1-Chlorohexane	7.790	91	443202	197.07 ug/L	93
66) Chlorobenzene	7.812	112	1027078	206.85 ug/L	88
67) 1,1,1,2-Tetrachloroethane	7.913	131	409574	214.53 ug/L	97
68) Ethylbenzene	7.902	91	1756505	213.77 ug/L	99
69) m,p-Xylene	8.025	106	1497265	440.25 ug/L	92
70) o-Xylene	8.400	106	745507	214.39 ug/L	94
71) Xylene (Total)	8.025	106	2273541m	662.20 ug/L	
72) Styrene	8.427	104	1236243	214.63 ug/L	94
73) Bromoform	8.598	173	276649	227.67 ug/L	100
74) Isopropylbenzene	8.716	105	1677265	220.31 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration

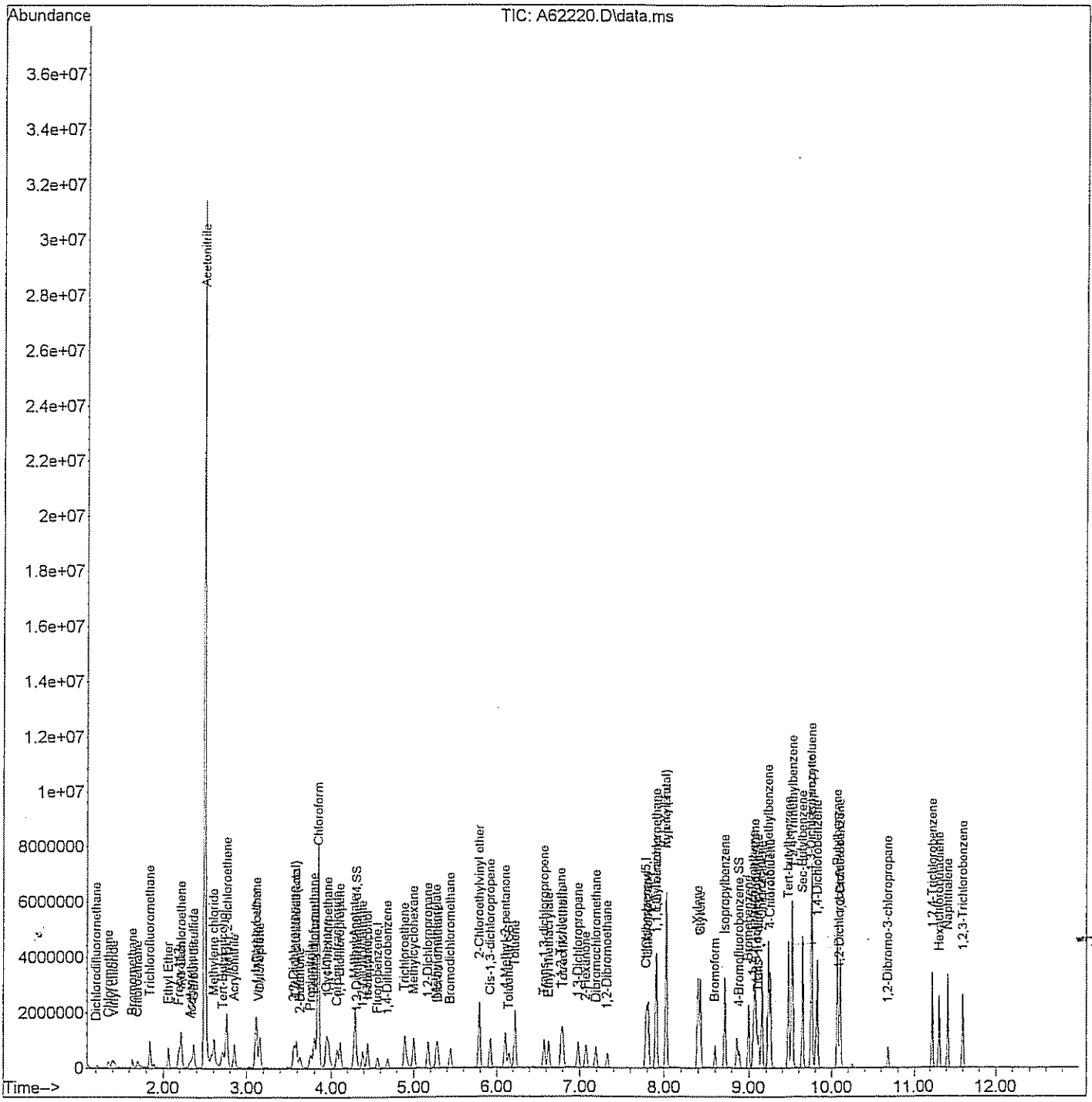
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	461938	219.95 ug/L	98
77) 1,1,2,2-Tetrachloroethane	9.053	83	487906	221.07 ug/L	96
78) 1,2,3-Trichloropropane	9.090	110	149582	232.98 ug/L	97
79) n-Propylbenzene	9.069	91	2232670	216.79 ug/L	99
80) Trans-1,4-dichloro-2-b...	9.111	53	162162	243.67 ug/L #	1
81) 2-Chlorotoluene	9.154	126	473615	212.70 ug/L	91
82) 4-Chlorotoluene	9.251	126	489840	211.74 ug/L	95
83) 1,3,5-Trimethylbenzene	9.229	105	1797797	226.75 ug/L	96
84) Tert-butylbenzene	9.470	119	1619572	229.36 ug/L	97
86) 1,2,4-Trimethylbenzene	9.523	105	1888366	230.96 ug/L	94
87) Sec-Butylbenzene	9.641	105	2427225	224.55 ug/L	99
88) 1,3-Dichlorobenzene	9.748	146	1109997	240.90 ug/L	99
89) 4-Isopropyltoluene	9.759	119	2287318	240.78 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	1049043	224.29 ug/L	98
92) 1,2-Dichlorobenzene	10.101	146	998684	224.76 ug/L	100
93) n-Butylbenzene	10.064	91	1958135	224.12 ug/L	96
94) 1,2-Dibromo-3-chloropr...	10.679	75	108926	245.86 ug/L #	78
95) 1,2,4-Trichlorobenzene	11.225	180	708457	243.62 ug/L	99
96) Hexachlorobutadiene	11.305	225	309724	255.98 ug/L	99
97) Naphthalene	11.412	128	1928687	239.70 ug/L	100
98) 1,2,3-Trichlorobenzene	11.599	180	620869	238.08 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

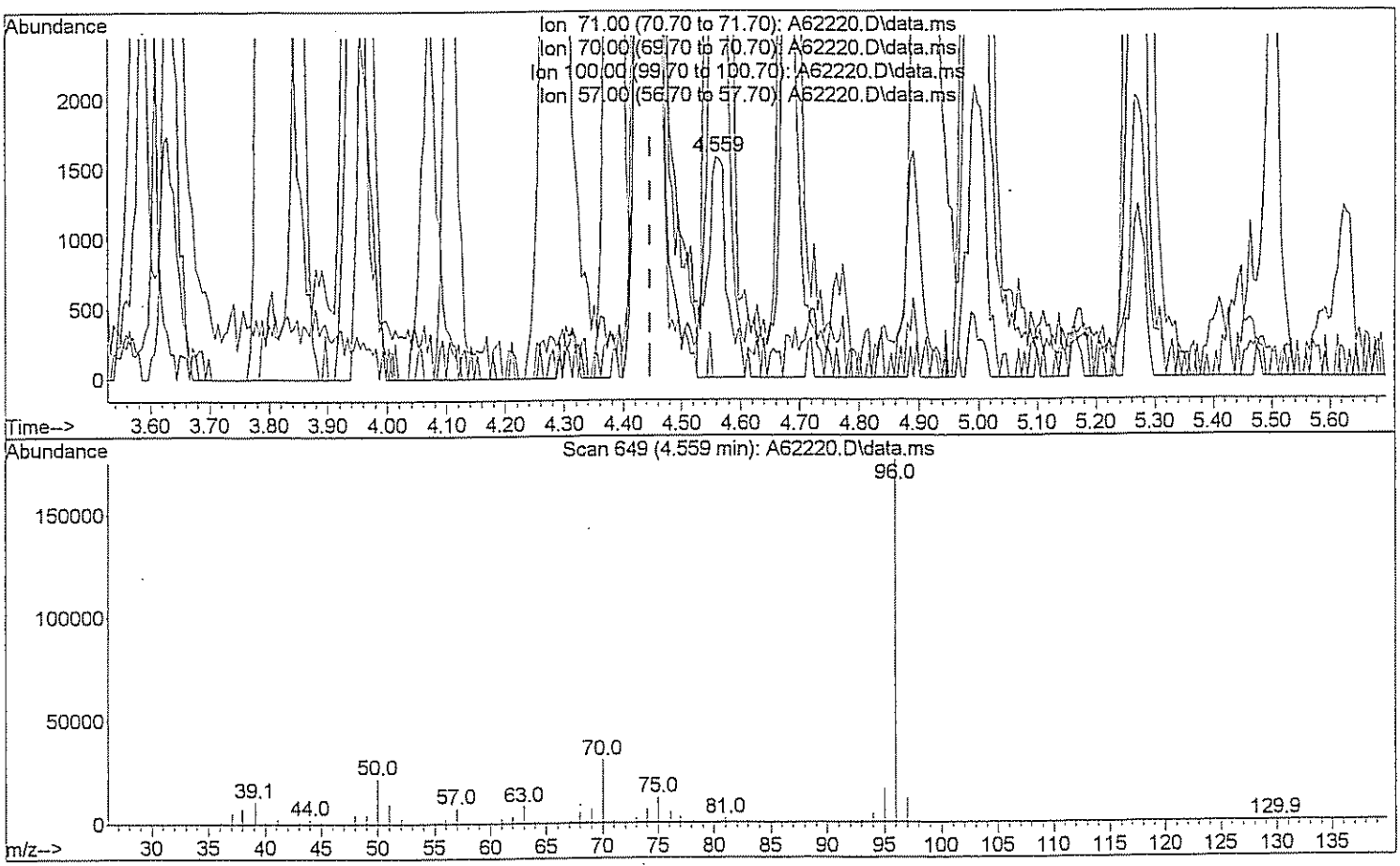
Quant Time: Mar 12 13:01:54 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(26) n-Heptane (T)

4.559min (+0.112) 3.71 ug/L

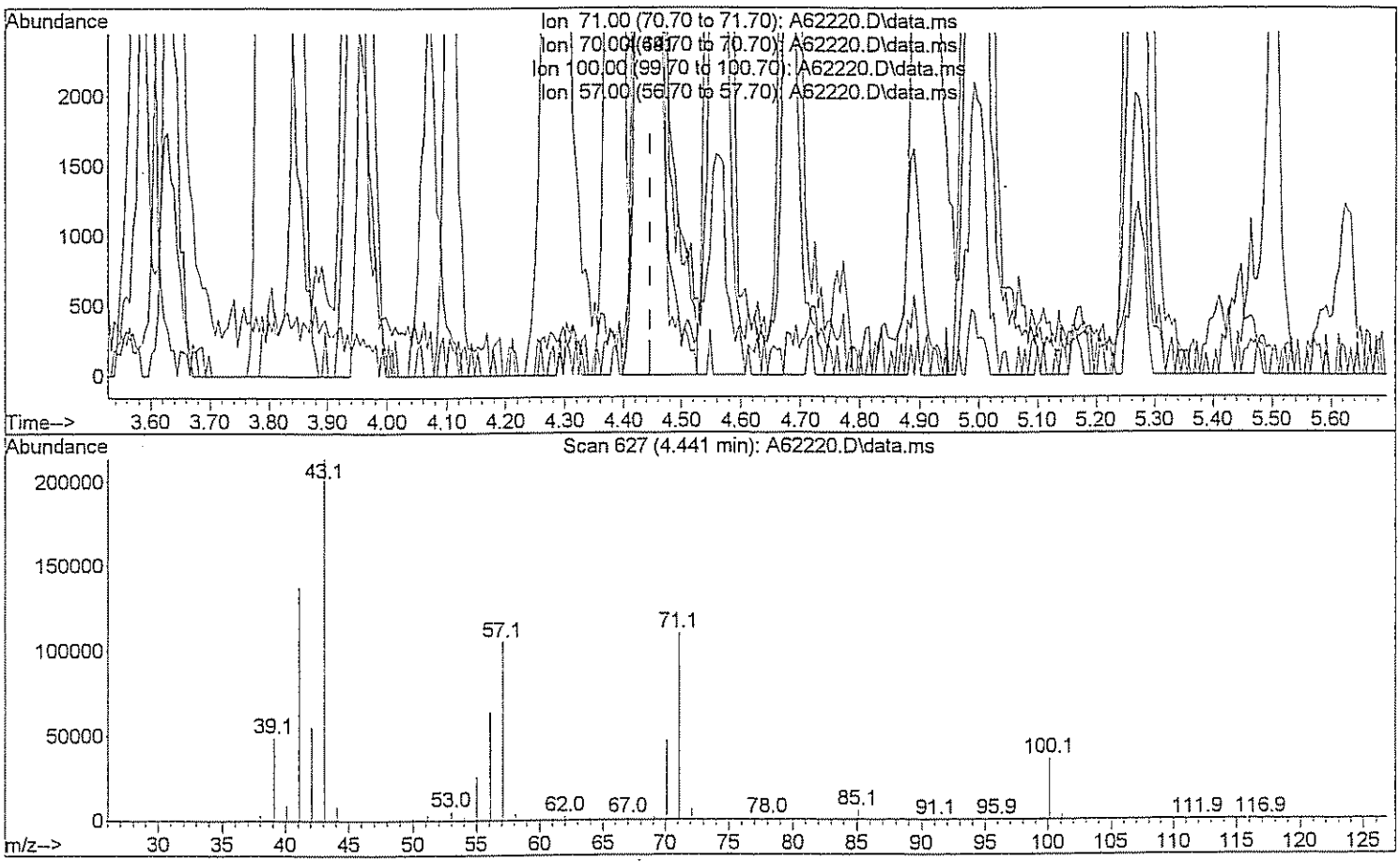
response 3552

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1479.76#
100.00	60.00	0.00#
57.00	34.00	322.16#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(26) n-Heptane (T)

4.441min (-0.005) 186.05 ug/L m

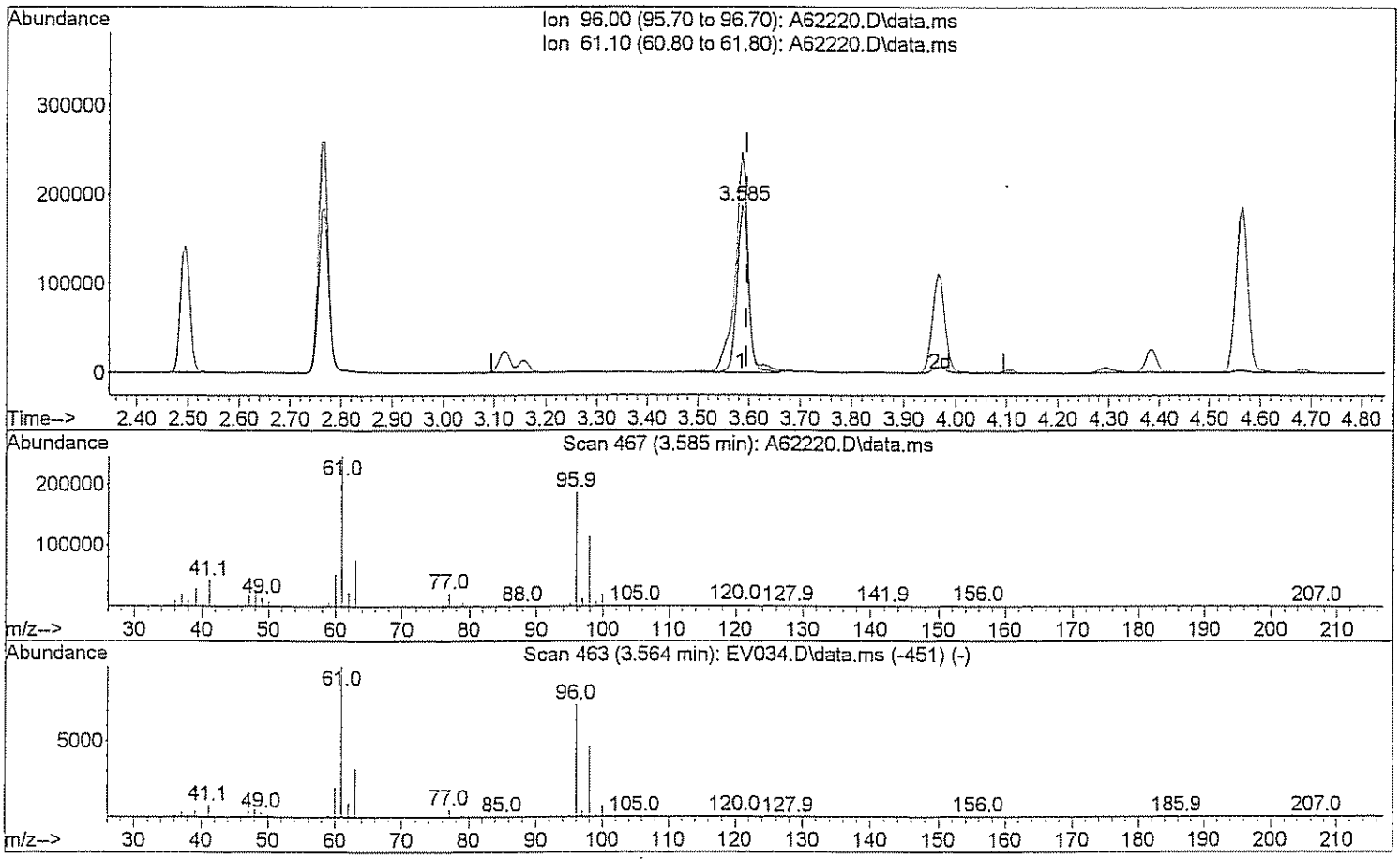
response 178169

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	29.50
100.00	60.00	0.00#
57.00	34.00	6.42#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(29) 1,2-dichloroethene(total)

3.585min (-0.011) 227.36 ug/L

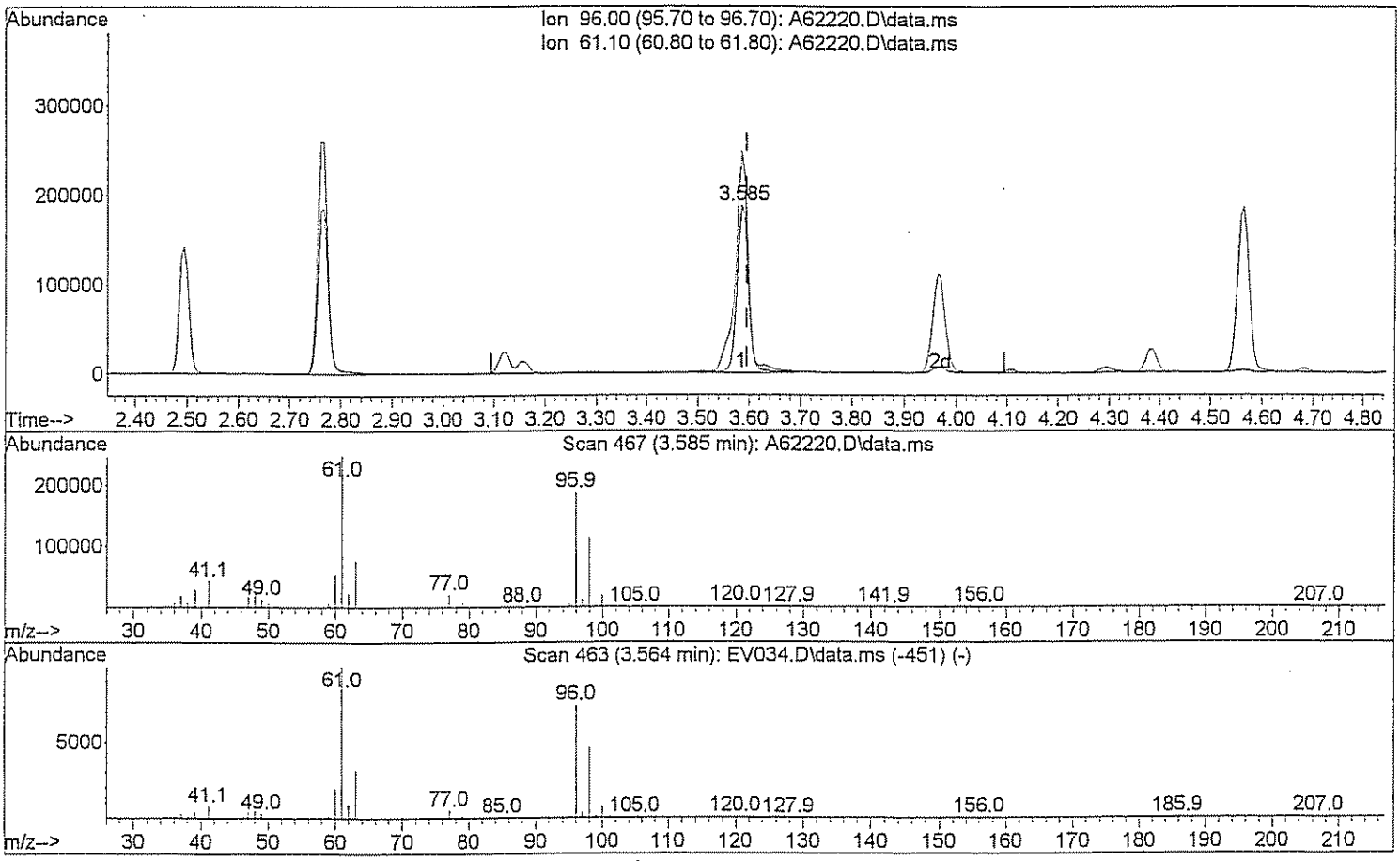
response 291314

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	146.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(29) 1,2-dichloroethene(total)

3.585min (-0.011) 444.24 ug/L m Sm 3/12/09

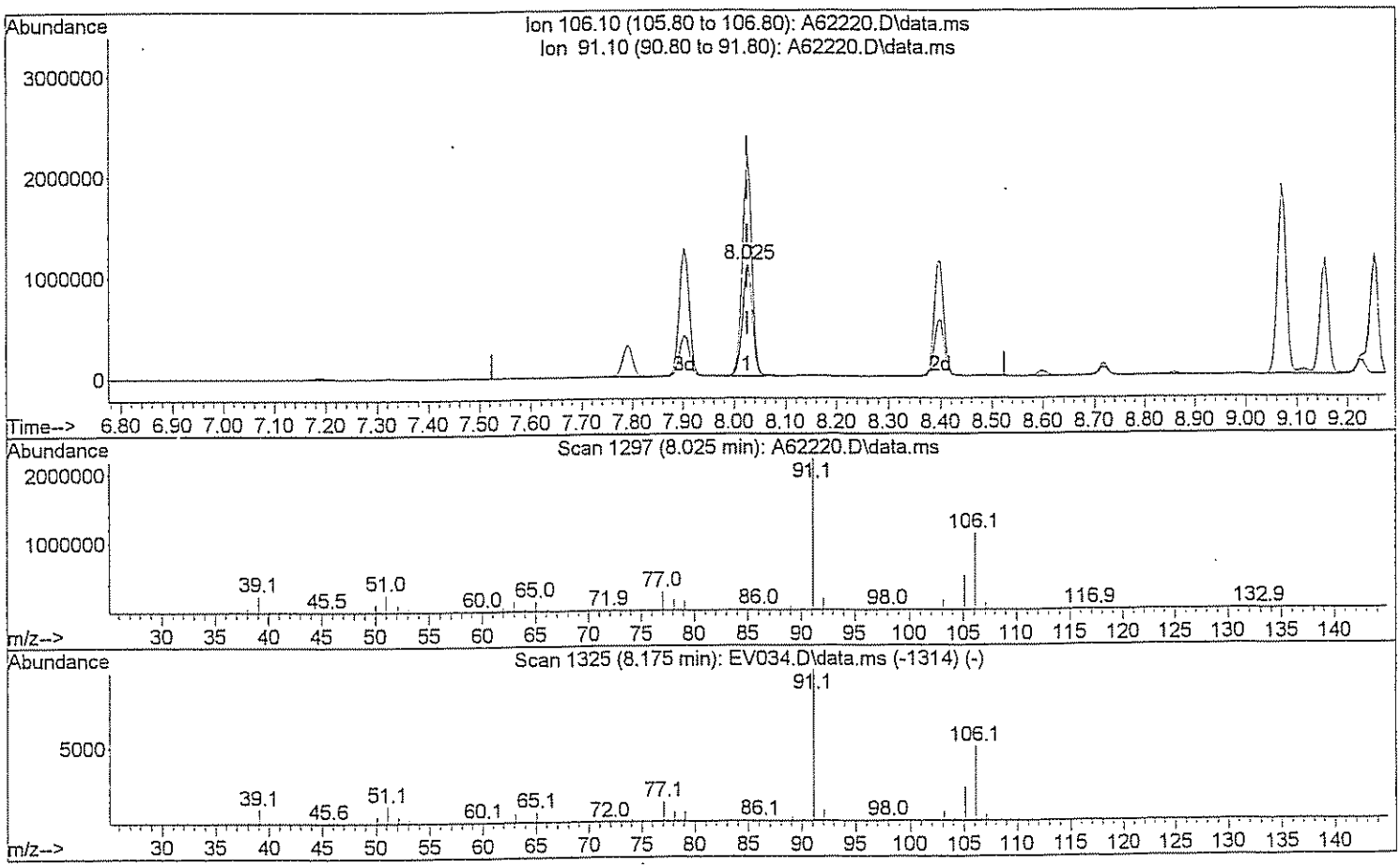
response 569196

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	74.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(71) Xylene (Total)

8.025min (+0.000) 436.10 ug/L

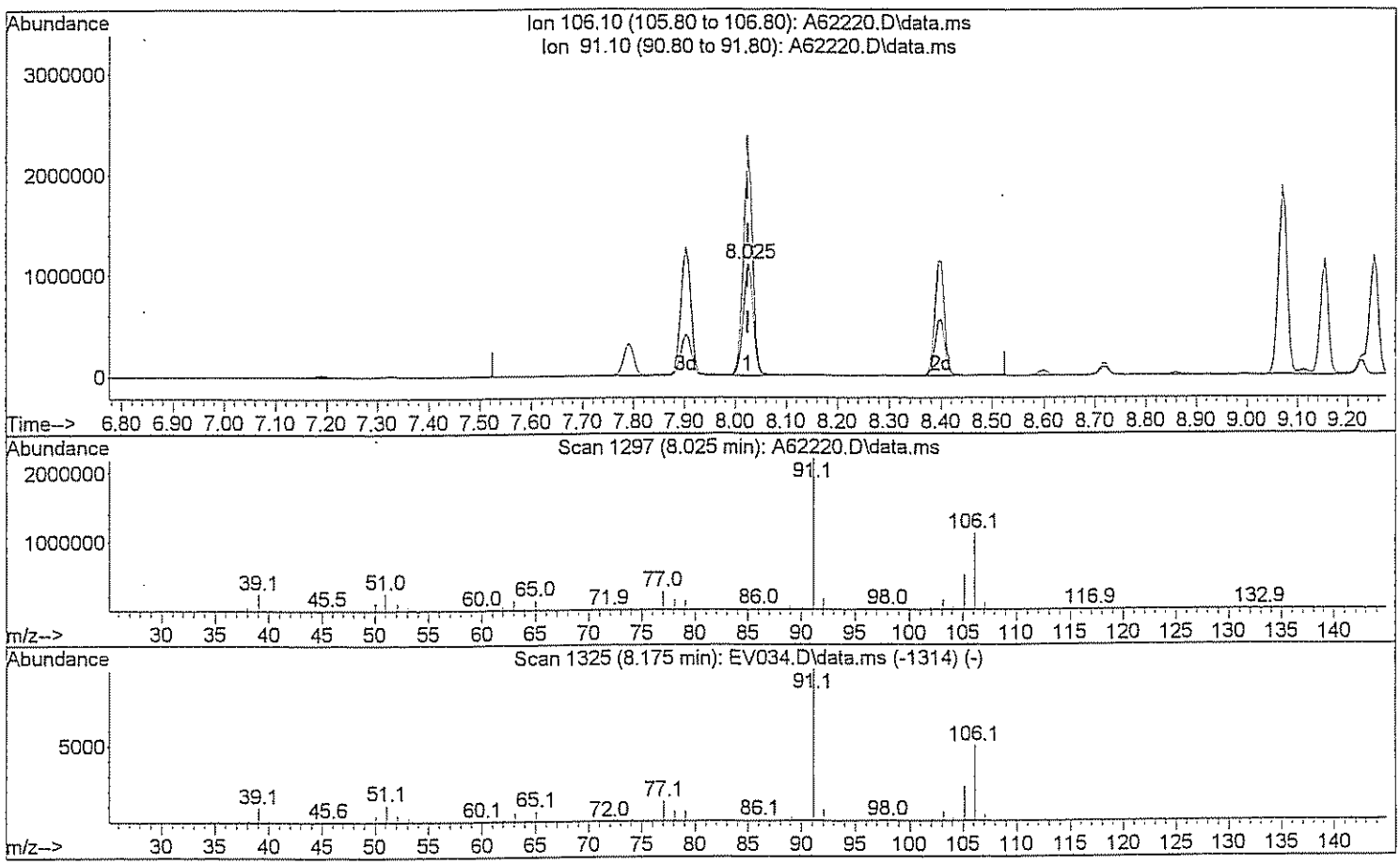
response 1497265

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(71) Xylene (Total)

8.025min (+0.000) 662.20 ug/L m Am 3/12/09

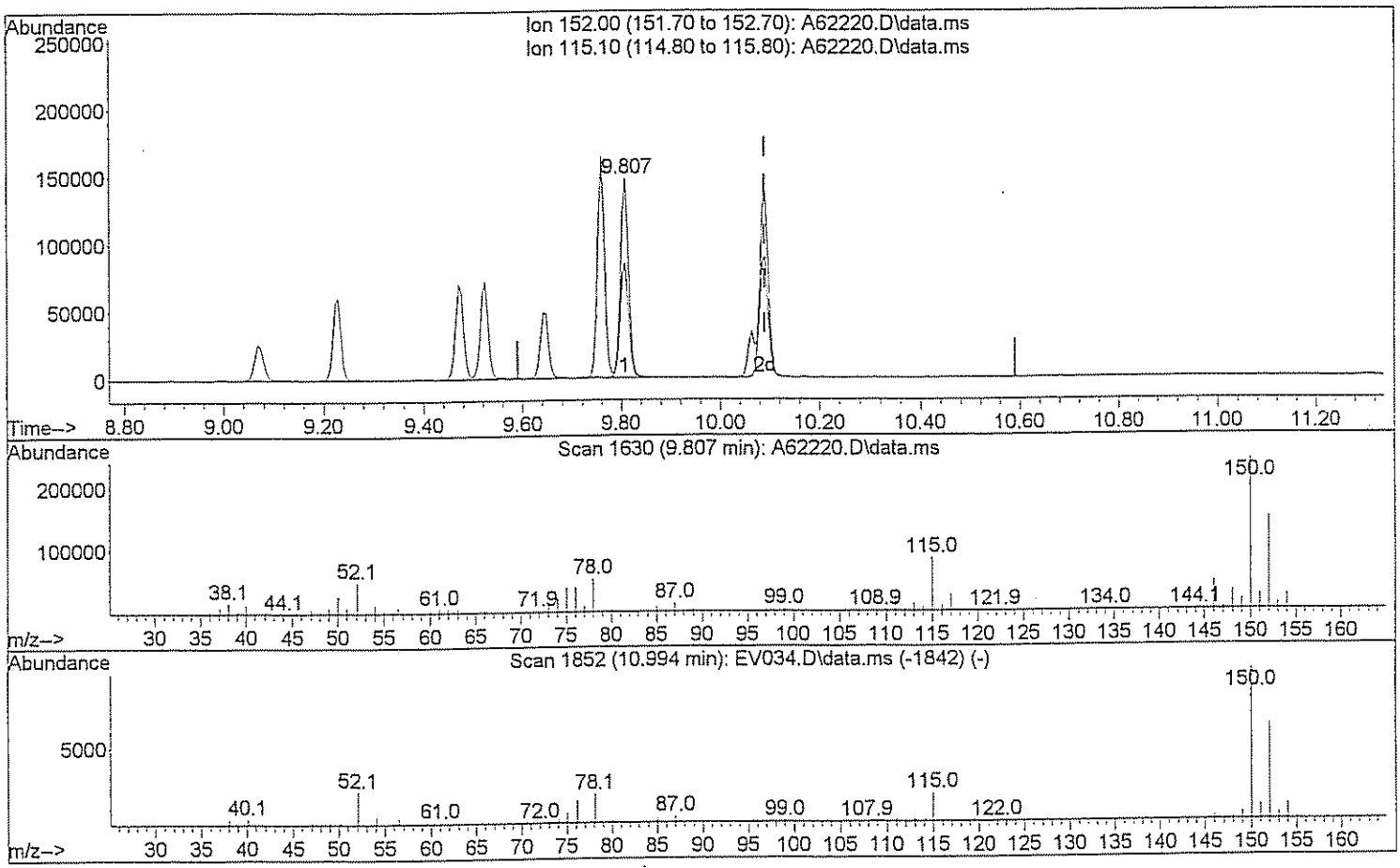
response 2273541

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.283) 56.42 ug/L

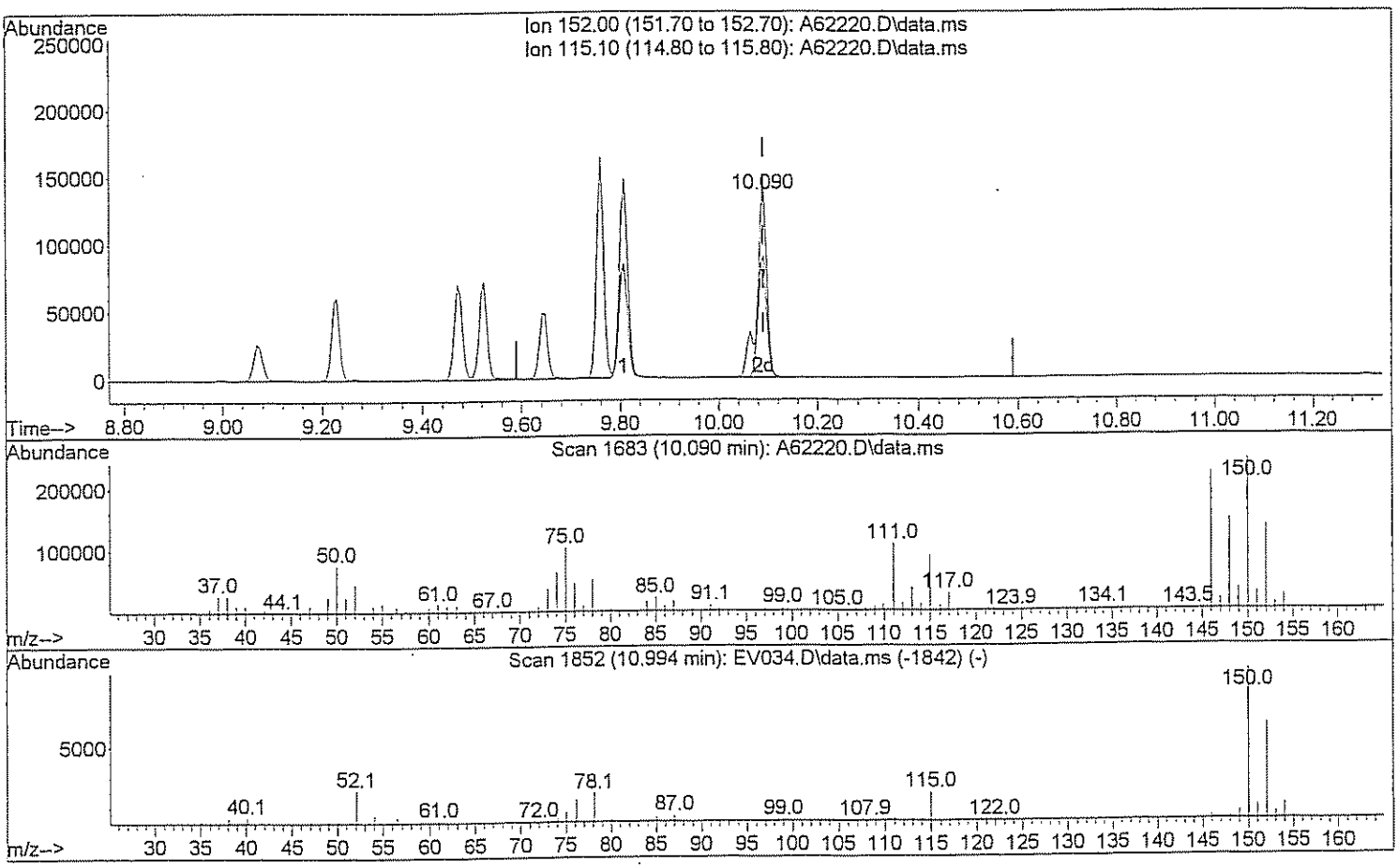
response 171456

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62220.D
Acq On : 10 Mar 2009 14:43
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 12:59:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 12:58:33 2009
Response via : Initial Calibration



TIC: A62220.D\data.ms

(91) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.000) 53.53 ug/L m Sw 3/12/09

response 162681

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	62.65
0.00	0.00	0.00
0.00	0.00	0.00

REFERENCE
Evaluate ~~Continuing~~ Calibration Report

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	46#	0.00
2		Dichlorodifluoromethane	0.113	0.147	-30.1#	78	0.00
3		Chloromethane	0.142	0.146	-2.8	63	0.00
4		Vinyl chloride	0.183	0.233	-27.3#	64	0.00
5		Bromomethane	0.064	0.082	-28.1#	69	0.00
6		Chloroethane	0.142	0.133	6.3	52	0.00
7		Trichlorofluoromethane	0.239	0.290	-21.3	61	0.00
8		Ethyl Ether	0.186	0.204	-9.7	63	0.00
9		Freon 113	0.170	0.186	-9.4	66	0.00
10		Acrolein	0.043	0.047	-9.3	71	0.00
11		Tert-Butyl alcohol	0.020	0.016	20.0	64	0.00
12		1,1-Dichloroethene	0.184	0.181	1.6	60	0.00
13		Iodomethane	0.164	0.256	-56.1#	65	0.00
14		Acetonitrile	0.096	0.118	-22.9	61	0.00
15		Methylene chloride	0.257	0.229	10.9	58	0.00
16		Trans-1,2-dichloroethene	0.200	0.200	0.0	55	0.00
17		Isopropyl ether	0.805	0.895	-11.2	62	0.01
18		1,1-Dichloroethane	0.356	0.398	-11.8	58	0.00
19		Acetone	0.092	0.092	0.0	75	0.00
20		Methyl Acetate	0.209	0.179	14.4	54	0.00
21		MTBE	0.579	0.630	-8.8	60	0.00
22		Carbon disulfide	0.764	0.627	17.9	61	0.00
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.077	-2.7	66	0.00
25		Chloroprene	0.341	0.349	-2.3	59	0.00
26	T	n-Heptane	0.174	0.178	-2.3	53	0.00
27		2,2-Dichloropropane	0.291	0.300	-3.1	52	0.00
28		Cis-1,2-dichloroethene	0.238	0.228	4.2	51	0.00
29		1,2-dichloroethene(total)	0.217	0.219	-0.9	53	-0.82#
30		Propionitrile	0.032	0.033	-3.1	58	0.00
31		Bromochloromethane	0.115	0.117	-1.7	51	0.00
32		Tetrahydrofuran	0.059	0.057	3.4	52	0.00
33		Chloroform	0.403	0.393	2.5	52	0.00
34		Cyclohexane	0.398	0.400	-0.5	57	0.00
35		1,1,1-Trichloroethane	0.307	0.320	-4.2	49#	0.00
36		Carbon tetrachloride	0.232	0.246	-6.0	43#	0.00
37		Methylcyclohexane	0.342	0.373	-9.1	52	0.00
38		Isobutyl Alcohol	0.016	0.018	-12.5	57	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.301	-9.1	52	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	46#	0.00
41		2-Butanone	0.191	0.183	4.2	60	0.00
42		1,1-Dichloropropene	0.326	0.337	-3.4	47#	0.00
43		Vinyl Acetate	0.357	0.343	3.9	52	0.00
44		Benzene	1.078	1.051	2.5	46#	0.00
45		1,2-Dichloroethane	0.340	0.371	-9.1	50	0.00
46		Trichloroethene	0.276	0.265	4.0	46#	0.00
47		1,2-Dichloropropane	0.280	0.284	-1.4	45#	0.00
48		Methyl methacrylate	0.221	0.193	12.7	45#	0.00
49		Dibromomethane	0.170	0.167	1.8	43#	0.00
50		Bromodichloromethane	0.361	0.340	5.8	42#	0.00
51		2-Chloroethylvinyl ether	0.188	0.181	3.7	44#	0.00
52		Cis-1,3-dichloropropene	0.408	0.396	2.9	40#	0.00
53	SS	Toluene-d8	1.110	1.140	-2.7	62	0.00
54		Toluene	0.589	0.630	-7.0	57	0.00
55		Trans-1,3-dichloropropene	0.372	0.365	1.9	54	0.00
56		Ethyl methacrylate	0.349	0.359	-2.9	59	0.00
57		1,1,2-Trichloroethane	0.208	0.214	-2.9	60	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	66	0.00
59		4-Methyl-2-pentanone	0.350	0.315	10.0	64	0.00
60		2-Hexanone	0.240	0.223	7.1	63	0.00
61		Tetrachloroethene	0.264	0.265	-0.4	62	0.00
62		1,3-Dichloropropane	0.405	0.413	-2.0	64	0.00
63		Dibromochloromethane	0.278	0.263	5.4	57	0.02
64		1,2-Dibromoethane	0.251	0.249	0.8	61	0.00
65		1-Chlorohexane	0.415	0.371	10.6	62	0.00
66		Chlorobenzene	0.821	0.804	2.1	62	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.297	2.6	60	0.00
68		Ethylbenzene	1.403	1.349	3.8	62	0.00
69		m,p-Xylene	0.579	0.557	3.8	62	0.00
70		o-Xylene	0.571	0.573	-0.4	63	0.00
71		Xylene (Total)	0.573	0.565	1.4	62	0.00
72		Styrene	0.959	0.942	1.8	62	0.00
73		Bromoform	0.187	0.188	-0.5	59	0.00
74		Isopropylbenzene	1.268	1.282	-1.1	64	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.535	-7.9	71	0.00
76		Bromobenzene	0.362	0.364	-0.6	64	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.387	0.0	66	0.00
78		1,2,3-Trichloropropane	0.116	0.110	5.2	64	0.00
79		n-Propylbenzene	1.718	1.735	-1.0	63	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.119	-8.2	68	0.00
81		2-Chlorotoluene	0.368	0.384	-4.3	64	0.00
82		4-Chlorotoluene	0.392	0.396	-1.0	63	0.00
83		1,3,5-Trimethylbenzene	1.331	1.366	-2.6	65	0.00
84		Tert-butylbenzene	1.188	1.244	-4.7	67	0.00
85		Pentachloroethane	0.000	0.000	0.0	59	0.00
86		1,2,4-Trimethylbenzene	1.416	1.418	-0.1	65	0.00
87		Sec-Butylbenzene	1.840	1.894	-2.9	66	0.00
88		1,3-Dichlorobenzene	0.805	0.815	-1.2	66	0.00
89		4-Isopropyltoluene	1.579	1.670	-5.8	66	0.00
90		1,4-Dichlorobenzene	0.804	0.837	-4.1	67	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.599	-10.7	73	0.00
92		1,2-Dichlorobenzene	0.773	0.815	-5.4	68	0.00
93		n-Butylbenzene	1.496	1.533	-2.5	66	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.087	-13.0	73	0.00
95		1,2,4-Trichlorobenzene	0.529	0.591	-11.7	75	0.00
96		Hexachlorobutadiene	0.235	0.253	-7.7	81	0.00
97		Naphthalene	1.447	1.574	-8.8	73	0.00
98		1,2,3-Trichlorobenzene	0.473	0.528	-11.6	75	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	225368	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	184873	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.785	117	197670	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	67928	54.56	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 109.12%				
53) Toluene-d8	6.148	98	210745	51.36	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 102.72%				
75) 4-Bromofluorobenzene	8.881	95	105728	53.90	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 107.80%				
91) 1,2-Dichlorobenzene-d4	10.085	152	118385	55.32	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 110.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.210	85	33095	64.90	ug/L		92
3) Chloromethane	1.349	50	32862	51.45	ug/L		99
4) Vinyl chloride	1.413	62	52431	53.65	ug/L	#	85
5) Bromomethane	1.648	94	18464	63.82	ug/L		92
6) Chloroethane	1.718	64	29892	46.74	ug/L		95
7) Trichlorofluoromethane	1.862	101	65436	60.63	ug/L		99
8) Ethyl Ether	2.066	59	45988	54.96	ug/L		98
9) Freon 113	2.199	101	41895	54.79	ug/L		94
10) Acrolein	2.210	56	52967	351.97	ug/L	#	66
11) Tert-Butyl alcohol	2.681	59	73843	1409.85	ug/L	#	47
12) 1,1-Dichloroethene	2.226	96	40889	49.33	ug/L		100
13) Iodomethane	2.355	142	57756	77.99	ug/L		96
14) Acetonitrile	2.499	40	264932	510.47	ug/L	#	1
15) Methylene chloride	2.611	84	51592	51.18	ug/L		93
16) Trans-1,2-dichloroethene	2.772	96	45007	49.93	ug/L		98
17) Isopropyl ether	3.109	45	201784	55.65	ug/L		100
18) 1,1-Dichloroethane	3.125	63	89679	55.88	ug/L		100
19) Acetone	2.317	43	41468	152.17	ug/L		92
20) Methyl Acetate	4.264	43	40331	70.32	ug/L	#	100
21) MTBE	2.756	73	141930	54.41	ug/L		100
22) Carbon disulfide	2.376	76	141319	55.88	ug/L		100
24) Acrylonitrile	2.847	53	86622	330.61	ug/L		97
25) Chloroprene	3.162	53	78717	51.28	ug/L		94
26) n-Heptane	4.446	71	40016m	51.08	ug/L		
27) 2,2-Dichloropropane	3.564	77	67505	51.50	ug/L	#	39
28) Cis-1,2-dichloroethene	3.590	96	51392	47.94	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.772	96	98618m	100.76	ug/L		
30) Propionitrile	3.745	54	75180	527.05	ug/L		96
31) Bromochloromethane	3.799	128	26281	50.49	ug/L		98
32) Tetrahydrofuran	3.622	72	12753	47.61	ug/L	#	1
33) Chloroform	3.847	83	88657	48.77	ug/L		97
34) Cyclohexane	3.949	56	90147	55.87	ug/L		95
35) 1,1,1-Trichloroethane	3.970	97	72125	52.06	ug/L		94
36) Carbon tetrachloride	4.072	117	55509	43.74	ug/L		97
37) Methylcyclohexane	5.003	83	83979	54.52	ug/L		95
38) Isobutyl Alcohol	4.446	43	79106	1103.89	ug/L		89
41) 2-Butanone	3.628	43	67845	126.80	ug/L		97
42) 1,1-Dichloropropene	4.109	75	62267	51.69	ug/L		96
43) Vinyl Acetate	3.152	43	63412	48.06	ug/L		99
44) Benzene	4.291	78	194237	48.74	ug/L		100
45) 1,2-Dichloroethane	4.382	62	68558	54.46	ug/L	#	86
46) Trichloroethene	4.890	95	48984	47.94	ug/L		92
47) 1,2-Dichloropropane	5.168	63	52501	50.66	ug/L		95
48) Methyl methacrylate	5.270	69	35694	51.91	ug/L		93
49) Dibromomethane	5.286	93	30832	48.98	ug/L		99
50) Bromodichloromethane	5.436	83	62929	47.21	ug/L		100
51) 2-Chloroethylvinyl ether	5.784	63	133955	192.70	ug/L		99
52) Cis-1,3-dichloropropene	5.917	75	73284	42.44	ug/L		99
54) Toluene	6.222	92	116501	53.53	ug/L		96
55) Trans-1,3-dichloropropene	6.575	75	67425	48.96	ug/L		99
56) Ethyl methacrylate	6.629	69	66438	51.53	ug/L		90
57) 1,1,2-Trichloroethane	6.779	83	39491	51.34	ug/L		93
59) 4-Methyl-2-pentanone	6.099	43	124616	90.16	ug/L	#	92
60) 2-Hexanone	7.068	43	88216	93.10	ug/L		97
61) Tetrachloroethene	6.795	166	52394	50.16	ug/L		95
62) 1,3-Dichloropropane	6.977	76	81732	51.03	ug/L		96
63) Dibromochloromethane	7.191	129	51956	47.24	ug/L		100
64) 1,2-Dibromoethane	7.319	107	49258	49.55	ug/L		98
65) 1-Chlorohexane	7.790	91	73285	44.65	ug/L		97
66) Chlorobenzene	7.811	112	158977	48.97	ug/L		91
67) 1,1,1,2-Tetrachloroethane	7.908	131	58797	44.13	ug/L		94
68) Ethylbenzene	7.902	91	266736	48.11	ug/L		98
69) m,p-Xylene	8.020	106	220147	96.14	ug/L		88
70) o-Xylene	8.394	106	113298	50.19	ug/L		93
71) Xylene (Total)	8.020	106	335117m	148.01	ug/L		
72) Styrene	8.421	104	186280	49.11	ug/L		92
73) Bromoform	8.598	173	37234	42.69	ug/L		98
74) Isopropylbenzene	8.715	105	253471	50.55	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

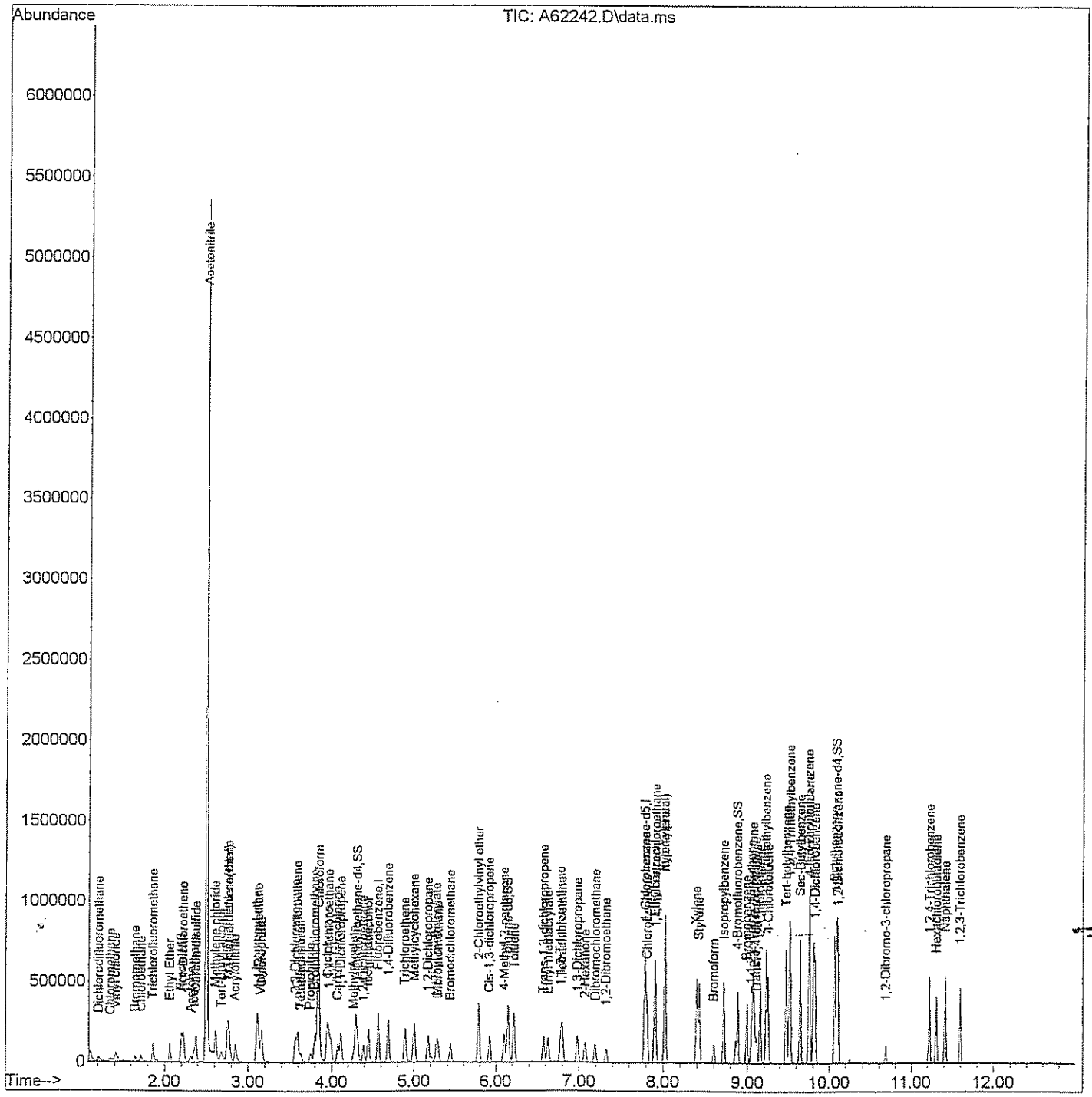
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	71889	50.18 ug/L	97
77) 1,1,2,2-Tetrachloroethane	9.047	83	76564	49.98 ug/L	97
78) 1,2,3-Trichloropropane	9.084	110	21658	47.38 ug/L	97
79) n-Propylbenzene	9.068	91	343014	50.50 ug/L	98
80) Trans-1,4-dichloro-2-b...	9.106	53	23461	53.90 ug/L #	25
81) 2-Chlorotoluene	9.149	126	75972	52.16 ug/L	88
82) 4-Chlorotoluene	9.250	126	78312	50.56 ug/L	94
83) 1,3,5-Trimethylbenzene	9.224	105	269919	51.31 ug/L	97
84) Tert-butylbenzene	9.470	119	245990	52.35 ug/L	96
86) 1,2,4-Trimethylbenzene	9.518	105	280364	50.10 ug/L	94
87) Sec-Butylbenzene	9.641	105	374344	51.45 ug/L	99
88) 1,3-Dichlorobenzene	9.748	146	161103	50.62 ug/L	98
89) 4-Isopropyltoluene	9.759	119	330147	52.88 ug/L	99
90) 1,4-Dichlorobenzene	9.823	146	165386	52.05 ug/L	97
92) 1,2-Dichlorobenzene	10.101	146	161017	52.66 ug/L	99
93) n-Butylbenzene	10.058	91	302933	51.22 ug/L	94
94) 1,2-Dibromo-3-chloropr...	10.679	75	17173	56.77 ug/L	85
95) 1,2,4-Trichlorobenzene	11.224	180	116881	55.89 ug/L	100
96) Hexachlorobutadiene	11.305	225	50107	53.89 ug/L	98
97) Naphthalene	11.412	128	311050	54.38 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	104452	55.87 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

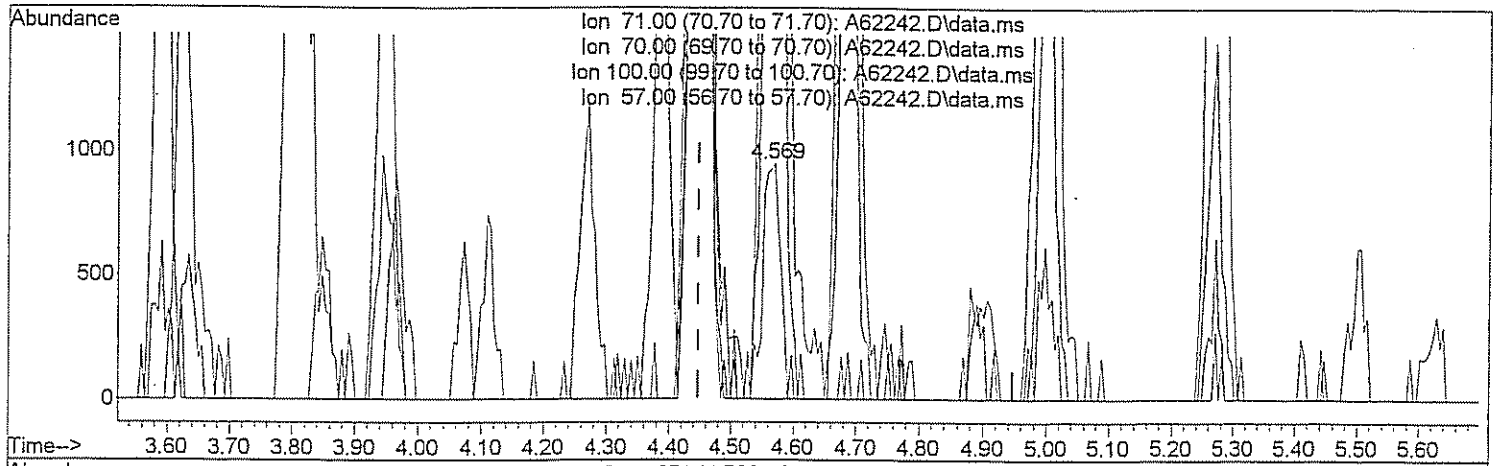
Quant Time: Mar 12 15:22:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

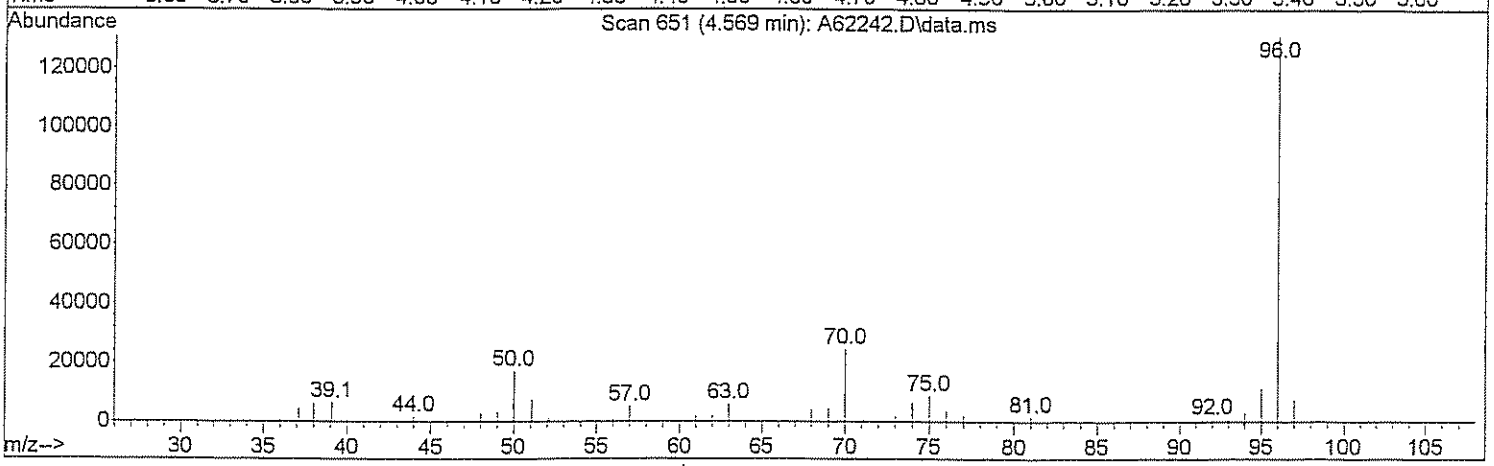


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration





TIC: A62242.D\data.ms

(26) n-Heptane (T)

4.569min (+0.122) 2.50 ug/L

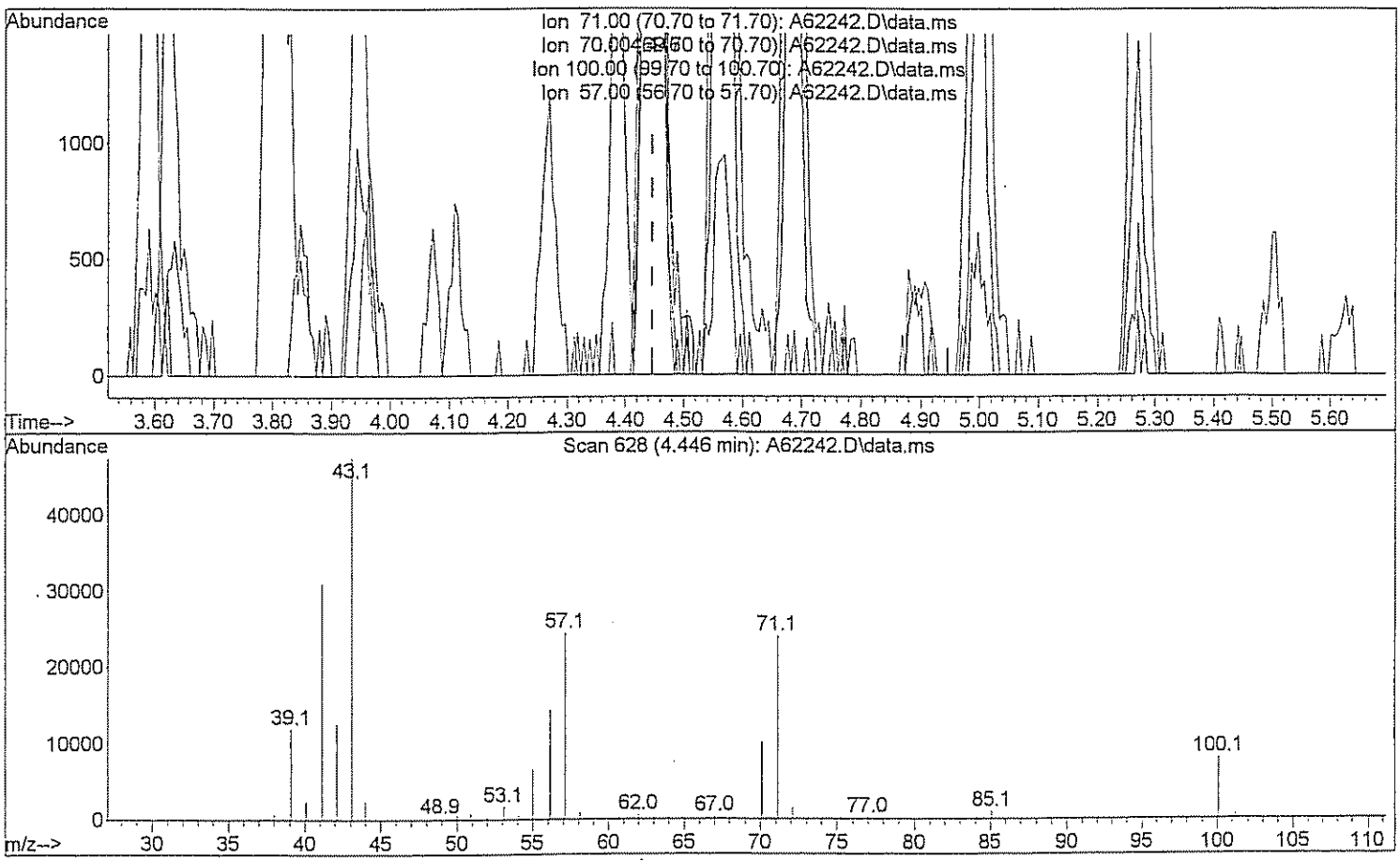
response 1961

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2134.68#
100.00	60.00	0.00#
57.00	34.00	496.69#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(26) n-Heptane (T)

4.446min (-0.001) 51.08 ug/L m

DW 3/12/09

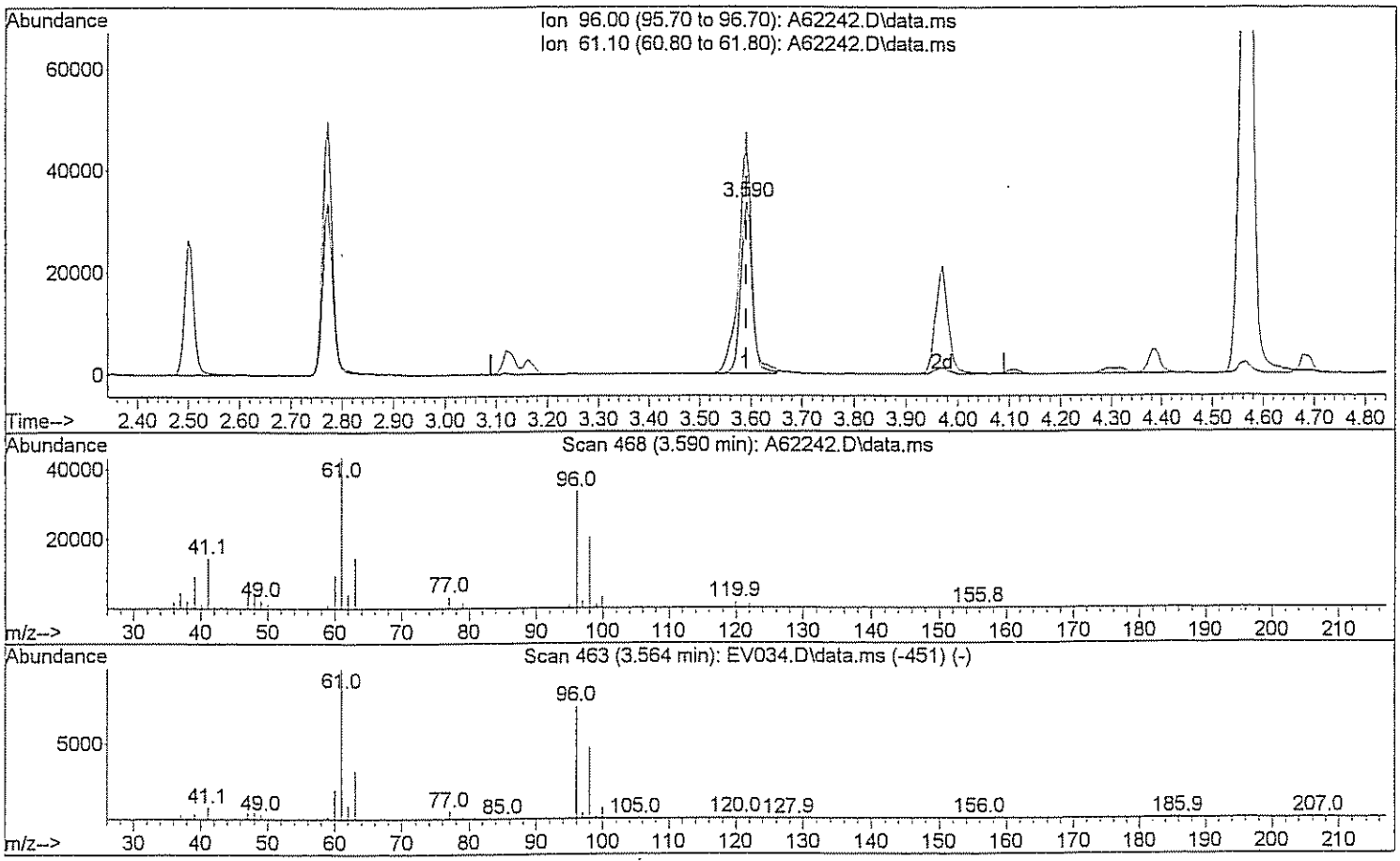
response 40016

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	104.61#
100.00	60.00	0.00#
57.00	34.00	24.34#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 52.51 ug/L

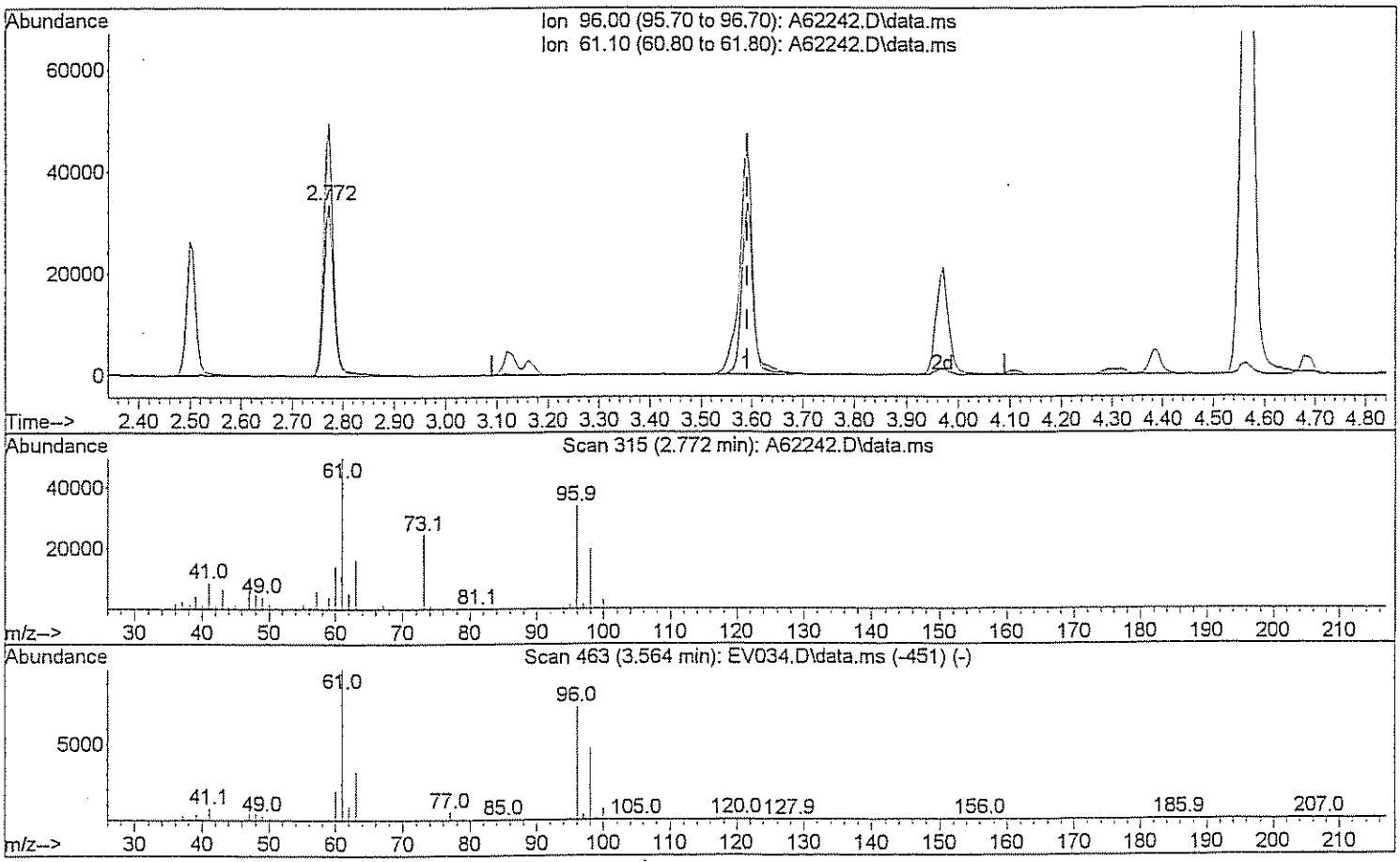
response 51392

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	158.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(29) 1,2-dichloroethene(total)

2.772min (-0.819) 100.76 ug/L m DW 3/12/09

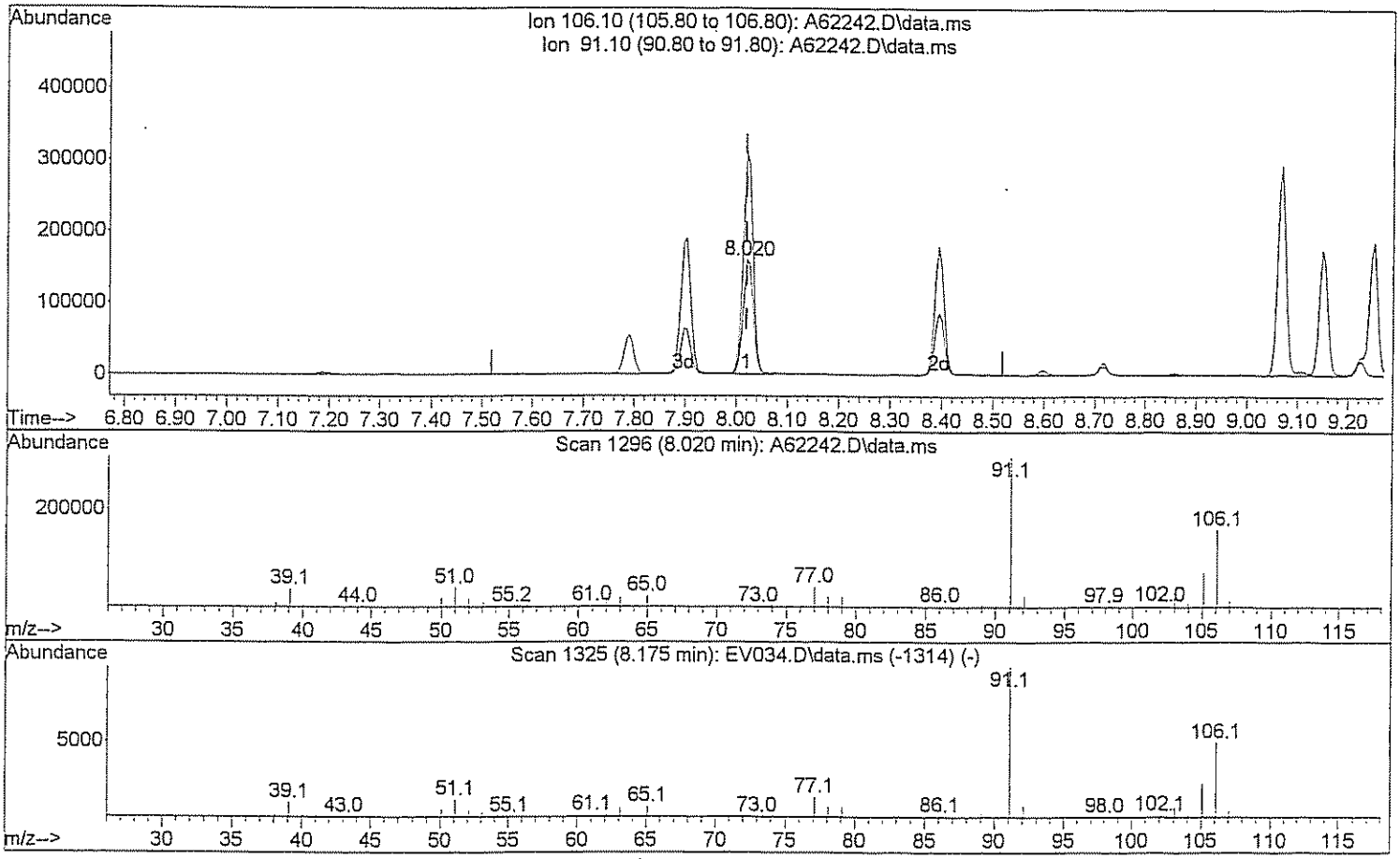
response 98618

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	82.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 97.23 ug/L

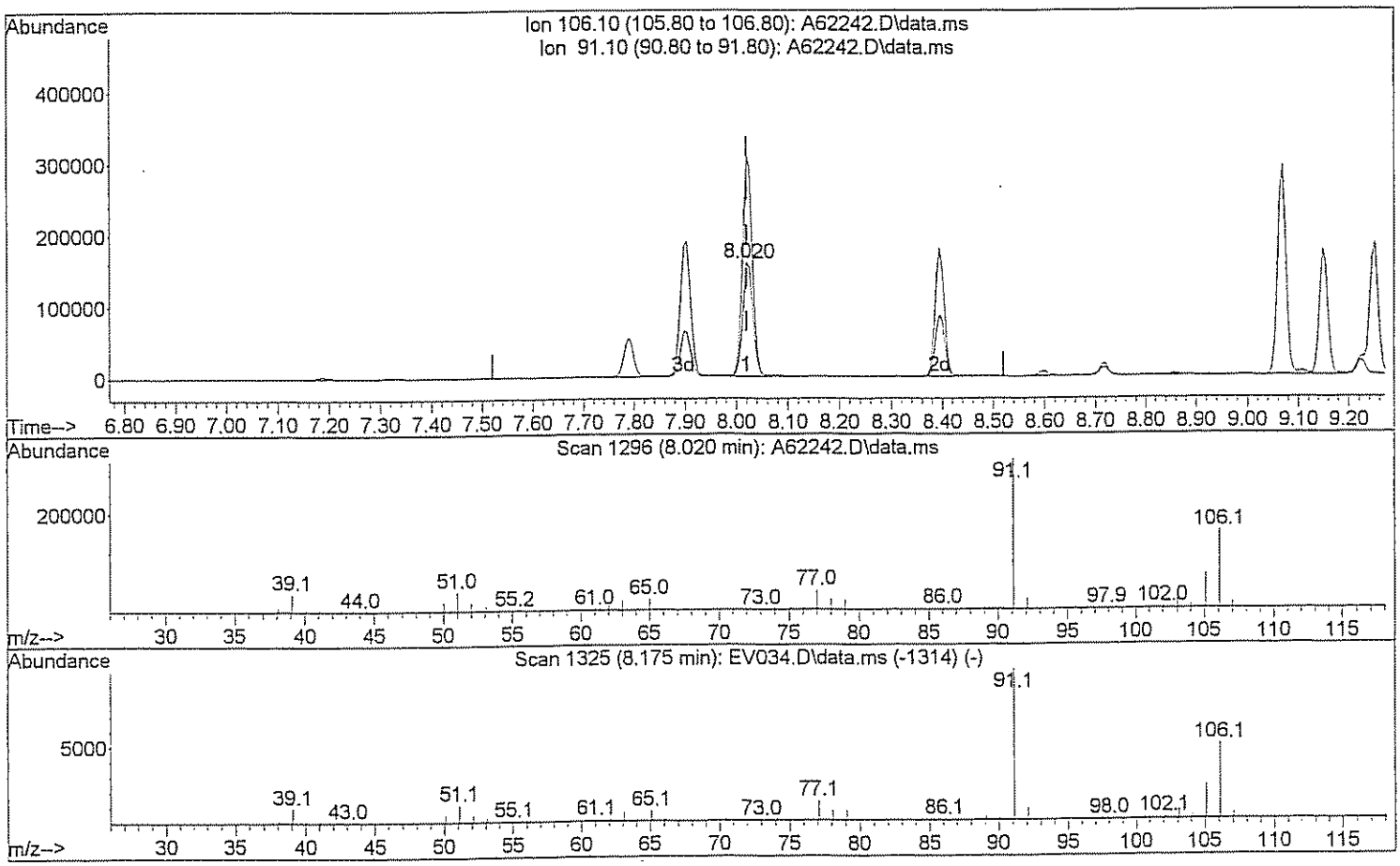
response 220147

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	190.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031109C2\
Data File : A62242.D
Acq On : 11 Mar 2009 12:15
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 15:17:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62242.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 148.01 ug/L m

response 335117

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.05#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 13:10:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	62	0.00
2		Dichlorodifluoromethane	0.113	0.104	8.0	75	0.00
3		Chloromethane	0.142	0.161	-13.4	94	0.00
4		Vinyl chloride	0.183	0.204	-11.5	76	0.00
5		Bromomethane	0.064	0.084	-31.3#	95	0.00
6		Chloroethane	0.142	0.134	5.6	71	0.00
7		Trichlorofluoromethane	0.239	0.322	-34.7#	91	0.00
8		Ethyl Ether	0.186	0.169	9.1	70	0.00
9		Freon 113	0.170	0.199	-17.1	94	0.00
10		Acrolein	0.043	0.030	30.2#	61	0.00
11		Tert-Butyl alcohol	0.020	0.012	40.0#	63	0.00
12		1,1-Dichloroethene	0.184	0.195	-6.0	86	0.00
13		Iodomethane	0.164	0.384	-134.1#	131	0.00
14		Acetonitrile	0.096	0.142	-47.9#	99	0.00
15		Methylene chloride	0.257	0.231	10.1	79	0.00
16		Trans-1,2-dichloroethene	0.200	0.223	-11.5	83	0.00
17		Isopropyl ether	0.805	0.776	3.6	72	0.01
18		1,1-Dichloroethane	0.356	0.391	-9.8	77	0.00
19		Acetone	0.092	0.055	40.2#	61	0.01
20		Methyl Acetate	0.209	0.119	43.1#	49#	0.00
21		MTBE	0.579	0.622	-7.4	80	0.00
22		Carbon disulfide	0.764	0.575	24.7	76	0.00
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.059	21.3	67	0.00
25		Chloroprene	0.341	0.327	4.1	75	0.00
26	T	n-Heptane	0.174	0.007	96.0#	3#	0.12
27		2,2-Dichloropropane	0.291	0.295	-1.4	69	0.00
28		Cis-1,2-dichloroethene	0.238	0.252	-5.9	75	0.00
29		1,2-dichloroethene(total)	0.217	0.244	-12.4	79	0.00
30		Propionitrile	0.032	0.022	31.3#	52	0.00
31		Bromochloromethane	0.115	0.148	-28.7#	87	0.00
32		Tetrahydrofuran	0.059	0.044	25.4#	54	0.00
33		Chloroform	0.403	0.423	-5.0	75	0.00
34		Cyclohexane	0.398	0.363	8.8	70	0.00
35		1,1,1-Trichloroethane	0.307	0.358	-16.6	74	0.00
36		Carbon tetrachloride	0.232	0.336	-44.8#	80	0.00
37		Methylcyclohexane	0.342	0.355	-3.8	67	0.00
38		Isobutyl Alcohol	0.016	0.006	62.5#	26#	-0.18

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 13:10:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.287	-4.0	66	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	67	0.00
41		2-Butanone	0.191	0.119	37.7#	57	0.00
42		1,1-Dichloropropene	0.326	0.319	2.1	65	0.01
43		Vinyl Acetate	0.357	0.222	37.8#	50#	0.00
44		Benzene	1.078	0.959	11.0	61	0.00
45		1,2-Dichloroethane	0.340	0.319	6.2	63	0.00
46		Trichloroethene	0.276	0.241	12.7	61	0.00
47		1,2-Dichloropropane	0.280	0.233	16.8	54	0.01
48		Methyl methacrylate	0.221	0.151	31.7#	51	0.00
49		Dibromomethane	0.170	0.157	7.6	60	0.00
50		Bromodichloromethane	0.361	0.324	10.2	58	0.00
51		2-Chloroethylvinyl ether	0.188	0.137	27.1#	48#	0.00
52		Cis-1,3-dichloropropene	0.408	0.344	15.7	50	0.00
53	SS	Toluene-d8	1.110	1.067	3.9	86	0.00
54		Toluene	0.589	0.606	-2.9	80	0.00
55		Trans-1,3-dichloropropene	0.372	0.306	17.7	66	0.00
56		Ethyl methacrylate	0.349	0.280	19.8	68	0.00
57		1,1,2-Trichloroethane	0.208	0.172	17.3	71	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
59		4-Methyl-2-pentanone	0.350	0.217	38.0#	71	0.00
60		2-Hexanone	0.240	0.150	37.5#	68	0.00
61		Tetrachloroethene	0.264	0.278	-5.3	104	0.00
62		1,3-Dichloropropane	0.405	0.331	18.3	82	0.00
63		Dibromochloromethane	0.278	0.269	3.2	94	0.01
64		1,2-Dibromoethane	0.251	0.211	15.9	82	0.00
65		1-Chlorohexane	0.415	0.328	21.0	88	0.00
66		Chlorobenzene	0.821	0.808	1.6	99	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.335	-9.8	107	0.00
68		Ethylbenzene	1.403	1.245	11.3	91	0.00
69		m,p-Xylene	0.579	0.541	6.6	96	0.00
70		o-Xylene	0.571	0.546	4.4	95	0.00
71		Xylene (Total)	0.573	0.546	4.7	96	0.00
72		Styrene	0.959	0.917	4.4	96	0.00
73		Bromoform	0.187	0.200	-7.0	100	0.00
74		Isopropylbenzene	1.268	1.272	-0.3	102	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 13:10:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.483	2.6	102	0.00
76		Bromobenzene	0.362	0.399	-10.2	112	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.327	15.5	89	0.00
78		1,2,3-Trichloropropane	0.116	0.106	8.6	98	0.00
79		n-Propylbenzene	1.718	1.626	5.4	94	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.092	16.4	84	0.00
81		2-Chlorotoluene	0.368	0.415	-12.8	110	0.00
82		4-Chlorotoluene	0.392	0.414	-5.6	106	0.00
83		1,3,5-Trimethylbenzene	1.331	1.310	1.6	99	0.00
84		Tert-butylbenzene	1.188	1.296	-9.1	111	0.00
85		Pentachloroethane	0.000	0.000	0.0	109	0.00
86		1,2,4-Trimethylbenzene	1.416	1.407	0.6	103	0.00
87		Sec-Butylbenzene	1.840	1.842	-0.1	102	0.00
88		1,3-Dichlorobenzene	0.805	0.903	-12.2	117	0.00
89		4-Isopropyltoluene	1.579	1.750	-10.8	111	0.00
90		1,4-Dichlorobenzene	0.804	0.919	-14.3	117	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.656	-21.3	128	0.00
92		1,2-Dichlorobenzene	0.773	0.896	-15.9	120	0.00
93		n-Butylbenzene	1.496	1.416	5.3	97	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.059	23.4	79	0.00
95		1,2,4-Trichlorobenzene	0.529	0.583	-10.2	119	0.00
96		Hexachlorobutadiene	0.235	0.251	-6.8	128	0.00
97		Naphthalene	1.447	1.437	0.7	106	0.00
98		1,2,3-Trichlorobenzene	0.473	0.516	-9.1	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 13:10:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	303343	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	270471	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.779	117	315637	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	87062	51.95	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.90%				
53) Toluene-d8	6.148	98	288655	48.08	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.16%				
75) 4-Bromofluorobenzene	8.881	95	152445	48.67	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.34%				
91) 1,2-Dichlorobenzene-d4	10.085	152	207054	60.59	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 121.18%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.210	85	31668	46.14	ug/L		99
3) Chloromethane	1.354	50	48889	56.87	ug/L		98
4) Vinyl chloride	1.418	62	61999	47.71	ug/L		98
5) Bromomethane	1.654	94	25558	65.63	ug/L		89
6) Chloroethane	1.718	64	40585	47.14	ug/L		99
7) Trichlorofluoromethane	1.862	101	97569	67.16	ug/L		98
8) Ethyl Ether	2.066	59	51241	45.49	ug/L		92
9) Freon 113	2.205	101	60383	58.67	ug/L		87
10) Acrolein	2.210	56	45449	246.24	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	72798	1212.22	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	59012	52.89	ug/L		86
13) Iodomethane	2.355	142	116440	116.81	ug/L		95
14) Acetonitrile	2.504	40	430476	605.00	ug/L	#	1
15) Methylene chloride	2.611	84	70206	51.71	ug/L		88
16) Trans-1,2-dichloroethene	2.772	96	67516	55.65	ug/L		84
17) Isopropyl ether	3.109	45	235298	48.21	ug/L		96
18) 1,1-Dichloroethane	3.125	63	118658	54.93	ug/L		100
19) Acetone	2.323	43	33589	107.00	ug/L		98
20) Methyl Acetate	4.259	43	36225	56.96	ug/L	#	100
21) MTBE	2.756	73	188628	53.73	ug/L		100
22) Carbon disulfide	2.376	76	174331	51.37	ug/L		100
24) Acrylonitrile	2.852	53	88882	266.76	ug/L		98
25) Chloroprene	3.162	53	99121	47.97	ug/L	#	85
26) n-Heptane	4.564	71	2248	2.13	ug/L	#	1
27) 2,2-Dichloropropane	3.564	77	89336	50.63	ug/L	#	62
28) Cis-1,2-dichloroethene	3.590	96	76544	53.05	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 13:10:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	148015m	112.36	ug/L		
30) Propionitrile	3.740	54	68180	355.11	ug/L		97
31) Bromochloromethane	3.794	128	44962	64.18	ug/L	#	59
32) Tetrahydrofuran	3.623	72	13236	36.71	ug/L	#	1
33) Chloroform	3.847	83	128277	52.42	ug/L		96
34) Cyclohexane	3.949	56	110206	50.79	ug/L		88
35) 1,1,1-Trichloroethane	3.970	97	108486	58.18	ug/L		99
36) Carbon tetrachloride	4.077	117	101954	59.27	ug/L		99
37) Methylcyclohexane	5.003	83	107649	51.93	ug/L		90
38) Isobutyl Alcohol	4.259	43	36225	375.56	ug/L		88
41) 2-Butanone	3.623	43	64424	88.43	ug/L		93
42) 1,1-Dichloropropene	4.115	75	86207	48.91	ug/L		95
43) Vinyl Acetate	3.146	43	59958	31.06	ug/L	#	94
44) Benzene	4.291	78	259318	44.48	ug/L		100
45) 1,2-Dichloroethane	4.382	62	86151	46.78	ug/L	#	88
46) Trichloroethene	4.890	95	65113	43.56	ug/L	#	70
47) 1,2-Dichloropropane	5.174	63	63085	41.60	ug/L		95
48) Methyl methacrylate	5.270	69	40887	41.20	ug/L		93
49) Dibromomethane	5.286	93	42436	46.08	ug/L		99
50) Bromodichloromethane	5.441	83	87741	44.99	ug/L	#	99
51) 2-Chloroethylvinyl ether	5.784	63	147682	145.21	ug/L		95
52) Cis-1,3-dichloropropene	5.918	75	93136	37.22	ug/L		95
54) Toluene	6.222	92	164019	51.51	ug/L		98
55) Trans-1,3-dichloropropene	6.570	75	82655	41.02	ug/L		95
56) Ethyl methacrylate	6.624	69	75725	40.14	ug/L		90
57) 1,1,2-Trichloroethane	6.773	83	46485	41.30	ug/L		88
59) 4-Methyl-2-pentanone	6.099	43	136880	62.02	ug/L		91
60) 2-Hexanone	7.068	43	94879	62.71	ug/L		97
61) Tetrachloroethene	6.795	166	87636	52.54	ug/L		98
62) 1,3-Dichloropropane	6.977	76	104492	40.85	ug/L		89
63) Dibromochloromethane	7.185	129	85001	48.40	ug/L		97
64) 1,2-Dibromoethane	7.319	107	66632	41.97	ug/L		96
65) 1-Chlorohexane	7.790	91	103521	39.50	ug/L		95
66) Chlorobenzene	7.811	112	255032	49.19	ug/L		84
67) 1,1,1,2-Tetrachloroethane	7.908	131	105730	49.26	ug/L		98
68) Ethylbenzene	7.897	91	392923	44.38	ug/L		95
69) m,p-Xylene	8.020	106	341547	93.41	ug/L		84
70) o-Xylene	8.394	106	172356	47.82	ug/L		87
71) Xylene (Total)	8.020	106	517103m	143.03	ug/L		
72) Styrene	8.421	104	289470	47.79	ug/L		99
73) Bromoform	8.598	173	63022	44.99	ug/L		99
74) Isopropylbenzene	8.715	105	401556	50.15	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 13:10:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

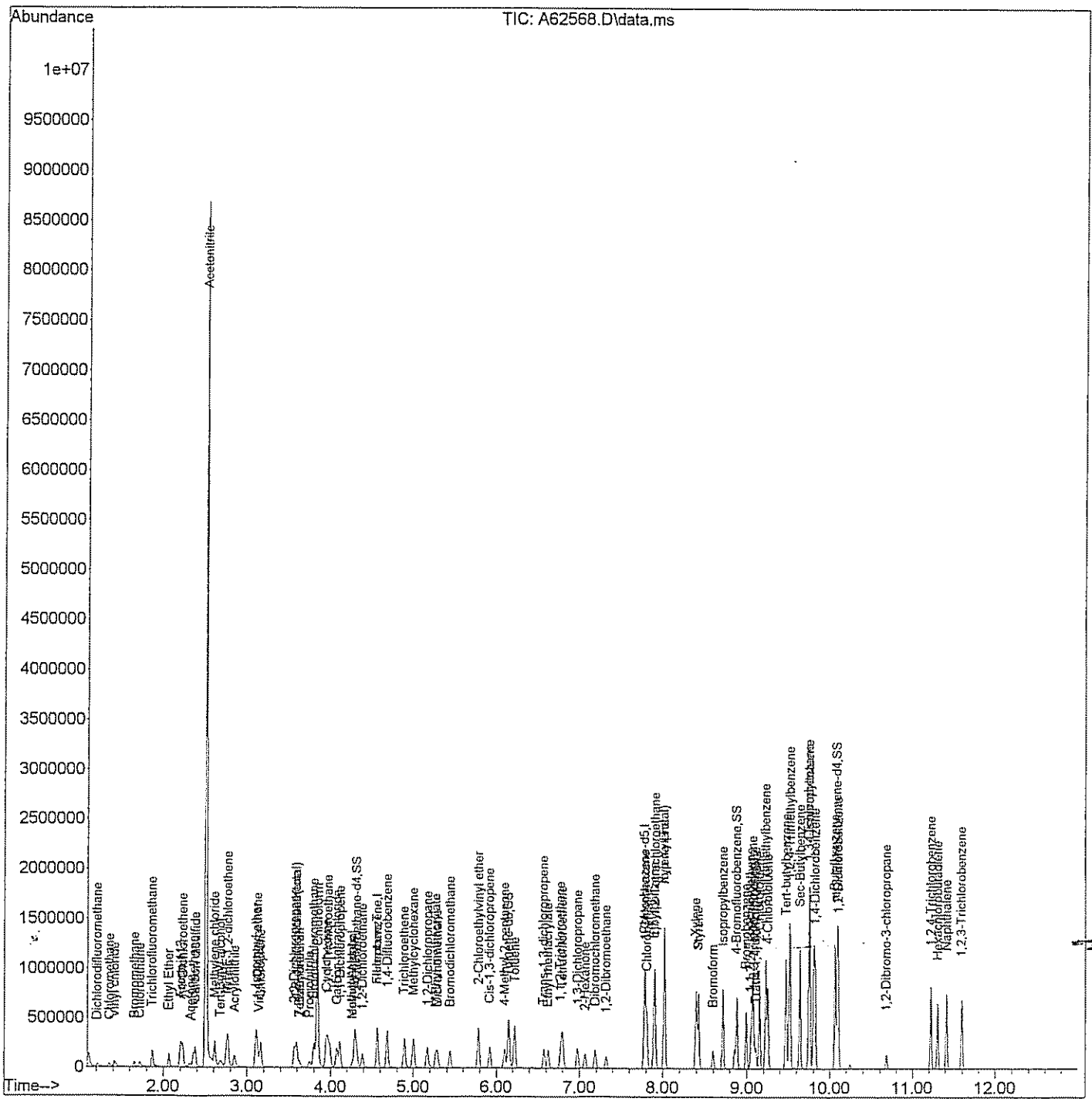
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) Bromobenzene	8.994	156	125790	54.99	ug/L		99
77) 1,1,2,2-Tetrachloroethane	9.047	83	103232	42.20	ug/L		99
78) 1,2,3-Trichloropropane	9.085	110	33339	45.67	ug/L		99
79) n-Propylbenzene	9.069	91	513127	47.31	ug/L		92
80) Trans-1,4-dichloro-2-b...	9.106	53	29076	41.84	ug/L	#	1
81) 2-Chlorotoluene	9.149	126	130887	56.28	ug/L		85
82) 4-Chlorotoluene	9.250	126	130827	52.90	ug/L		74
83) 1,3,5-Trimethylbenzene	9.224	105	413402	49.21	ug/L		91
84) Tert-butylbenzene	9.470	119	408995	54.51	ug/L		93
86) 1,2,4-Trimethylbenzene	9.518	105	444088	49.70	ug/L		90
87) Sec-Butylbenzene	9.641	105	581433	50.05	ug/L		93
88) 1,3-Dichlorobenzene	9.748	146	285034	56.08	ug/L		99
89) 4-Isopropyltoluene	9.753	119	552301	55.40	ug/L		94
90) 1,4-Dichlorobenzene	9.823	146	290145	57.19	ug/L		99
92) 1,2-Dichlorobenzene	10.101	146	282675	57.89	ug/L		98
93) n-Butylbenzene	10.058	91	446869	47.32	ug/L	#	85
94) 1,2-Dibromo-3-chloropr...	10.679	75	18682	38.68	ug/L	#	51
95) 1,2,4-Trichlorobenzene	11.224	180	184087	55.12	ug/L		96
96) Hexachlorobutadiene	11.305	225	79303	53.42	ug/L		98
97) Naphthalene	11.412	128	453664	49.67	ug/L		100
98) 1,2,3-Trichlorobenzene	11.594	180	162917	54.58	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

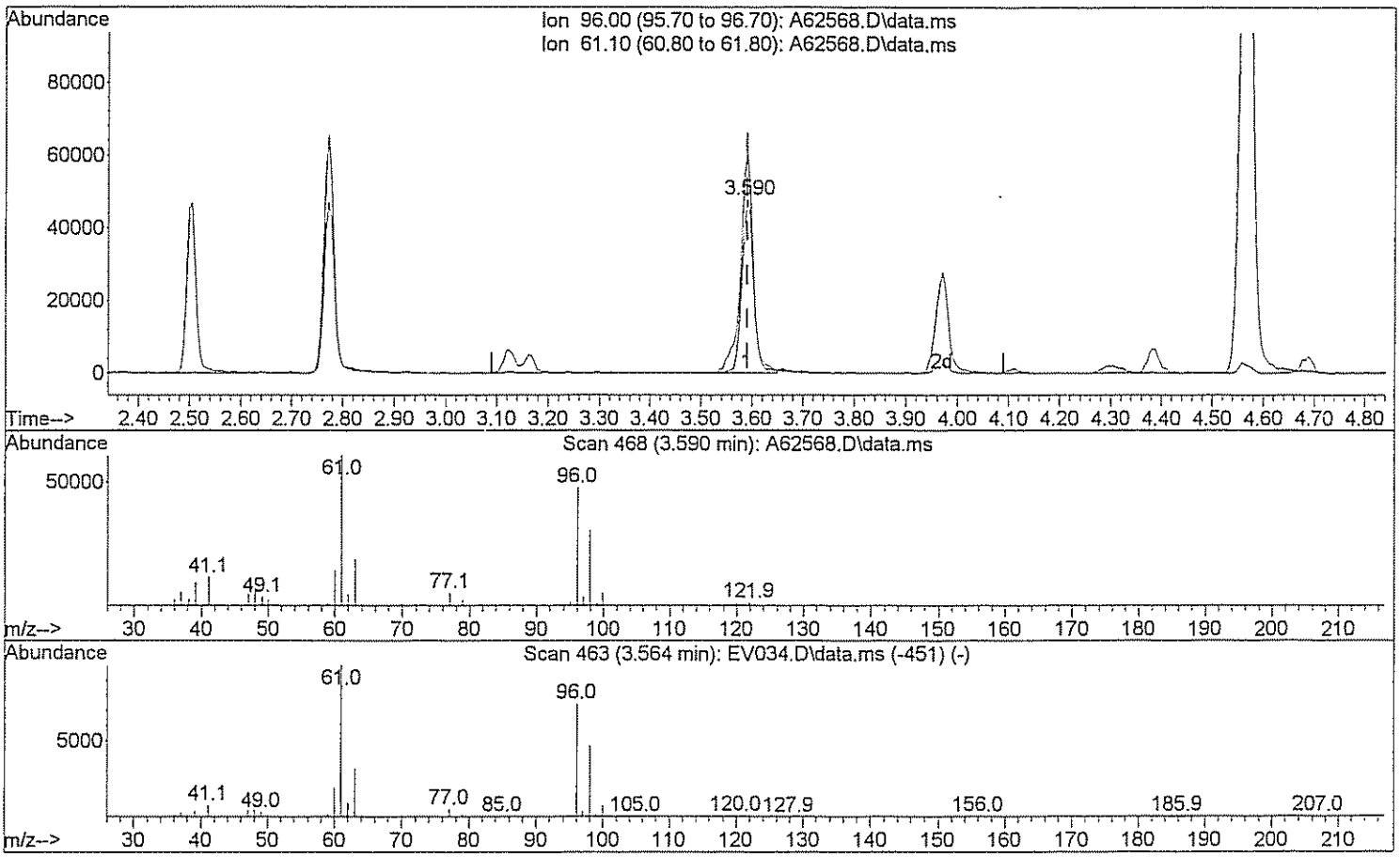
Quant Time: Mar 27 13:10:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 08:40:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62568.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 58.10 ug/L

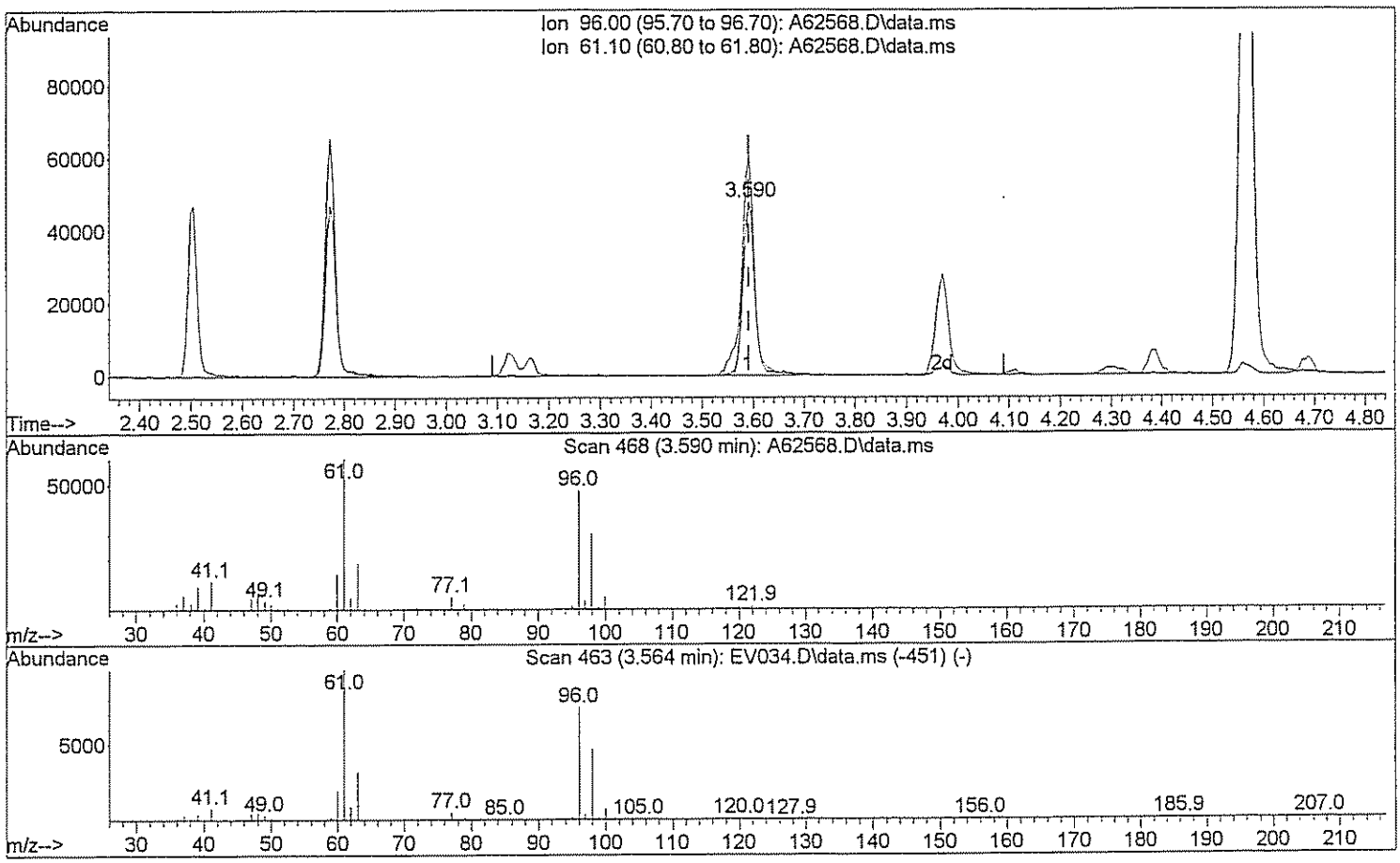
response 76544

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	138.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 08:40:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62568.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 112.36 ug/L m

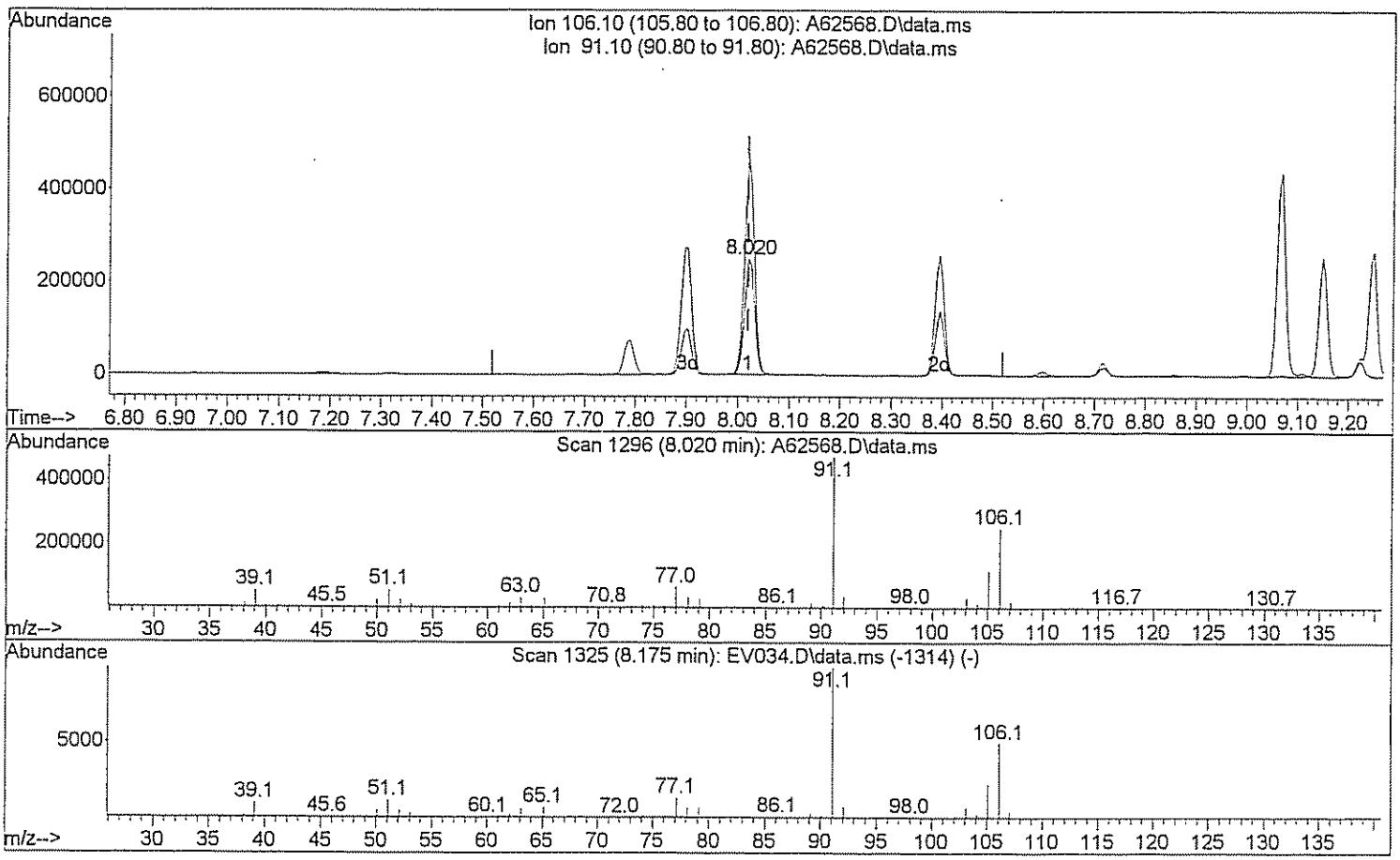
response 148015

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	71.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 08:40:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62568.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 94.47 ug/L

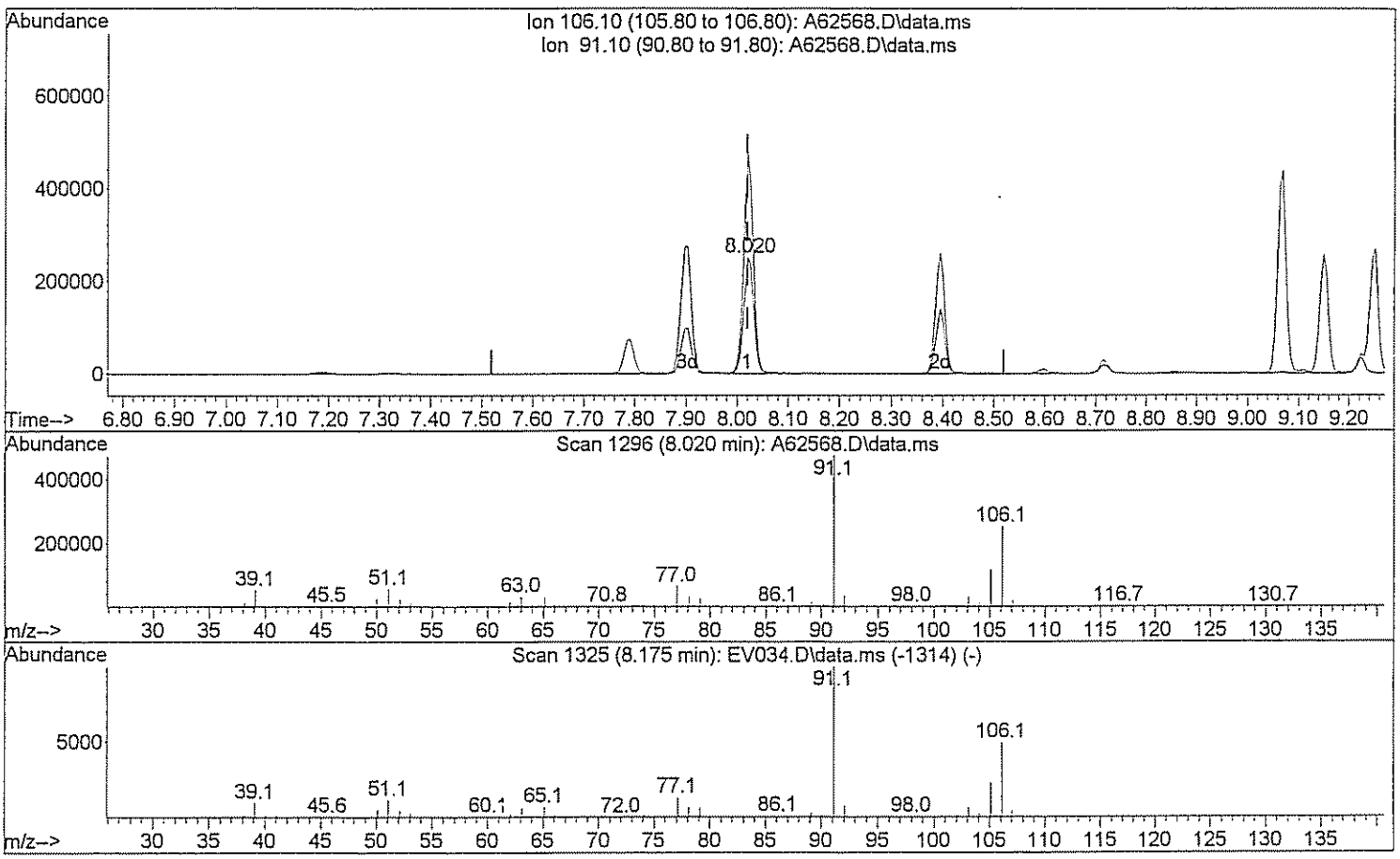
response 341547

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	183.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62568.D
Acq On : 26 Mar 2009 9:41
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 27 08:40:49 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62568.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 143.03 ug/L m Am 3/27/09

response 517103

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	121.18#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 31 09:26:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	56	0.00
2		Dichlorodifluoromethane	0.113	0.097	14.2	62	0.00
3		Chloromethane	0.142	0.169	-19.0	89	0.00
4		Vinyl chloride	0.183	0.208	-13.7	70	0.00
5		Bromomethane	0.064	0.092	-43.7#	95	0.00
6		Chloroethane	0.142	0.129	9.2	61	0.00
7		Trichlorofluoromethane	0.239	0.349	-46.0#	90	0.00
8		Ethyl Ether	0.186	0.184	1.1	69	0.00
9		Freon 113	0.170	0.203	-19.4	87	0.00
10		Acrolein	0.043	0.029	32.6#	54	0.00
11		Tert-Butyl alcohol	0.020	0.011	45.0#	54	0.00
12		1,1-Dichloroethene	0.184	0.201	-9.2	80	0.00
13		Iodomethane	0.164	0.381	-132.3#	118	0.00
14		Acetonitrile	0.096	0.146	-52.1#	92	0.00
15		Methylene chloride	0.257	0.242	5.8	74	0.00
16		Trans-1,2-dichloroethene	0.200	0.215	-7.5	72	0.00
17		Isopropyl ether	0.805	0.819	-1.7	69	0.01
18		1,1-Dichloroethane	0.356	0.420	-18.0	75	0.00
19		Acetone	0.092	0.056	39.1#	55	0.00
20		Methyl Acetate	0.209	0.131	37.3#	48#	0.00
21		MTBE	0.579	0.634	-9.5	73	0.00
22		Carbon disulfide	0.764	0.562	26.4#	67	0.00
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.058	22.7	60	0.00
25		Chloroprene	0.341	0.337	1.2	70	0.00
26	T	n-Heptane	0.174	0.008	95.4#	3#	0.12
27		2,2-Dichloropropane	0.291	0.305	-4.8	64	0.00
28		Cis-1,2-dichloroethene	0.238	0.267	-12.2	72	0.00
29		1,2-dichloroethene(total)	0.217	0.247	-13.8	73	0.00
30		Propionitrile	0.032	0.024	25.0	51	0.00
31		Bromochloromethane	0.115	0.155	-34.8#	82	0.00
32		Tetrahydrofuran	0.059	0.044	25.4#	49#	0.01
33		Chloroform	0.403	0.457	-13.4	74	0.00
34		Cyclohexane	0.398	0.351	11.8	61	0.00
35		1,1,1-Trichloroethane	0.307	0.371	-20.8	69	0.00
36		Carbon tetrachloride	0.232	0.347	-49.6#	74	0.00
37		Methylcyclohexane	0.342	0.348	-1.8	59	0.00
38		Isobutyl Alcohol	0.016	0.007	56.3#	26#	-0.17

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 31 09:26:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.284	-2.9	59	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	62	0.00
41		2-Butanone	0.191	0.123	35.6#	55	0.00
42		1,1-Dichloropropene	0.326	0.316	3.1	60	0.00
43		Vinyl Acetate	0.357	0.228	36.1#	47#	0.00
44		Benzene	1.078	0.955	11.4	57	0.00
45		1,2-Dichloroethane	0.340	0.318	6.5	58	0.00
46		Trichloroethene	0.276	0.263	4.7	62	0.00
47		1,2-Dichloropropane	0.280	0.241	13.9	51	0.01
48		Methyl methacrylate	0.221	0.163	26.2#	51	0.00
49		Dibromomethane	0.170	0.173	-1.8	61	0.00
50		Bromodichloromethane	0.361	0.332	8.0	56	0.00
51		2-Chloroethylvinyl ether	0.188	0.145	22.9	48#	0.00
52		Cis-1,3-dichloropropene	0.408	0.366	10.3	50#	0.01
53	SS	Toluene-d8	1.110	1.041	6.2	77	0.00
54		Toluene	0.589	0.631	-7.1	77	0.00
55		Trans-1,3-dichloropropene	0.372	0.319	14.2	64	0.00
56		Ethyl methacrylate	0.349	0.306	12.3	69	0.00
57		1,1,2-Trichloroethane	0.208	0.213	-2.4	81	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
59		4-Methyl-2-pentanone	0.350	0.231	34.0#	69	0.00
60		2-Hexanone	0.240	0.161	32.9#	66	0.00
61		Tetrachloroethene	0.264	0.374	-41.7#	128	0.00
62		1,3-Dichloropropane	0.405	0.335	17.3	76	0.00
63		Dibromochloromethane	0.278	0.286	-2.9	91	0.01
64		1,2-Dibromoethane	0.251	0.224	10.8	79	0.00
65		1-Chlorohexane	0.415	0.332	20.0	81	0.00
66		Chlorobenzene	0.821	0.837	-1.9	93	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.353	-15.7	103	0.00
68		Ethylbenzene	1.403	1.292	7.9	86	0.00
69		m,p-Xylene	0.579	0.574	0.9	93	0.00
70		o-Xylene	0.571	0.569	0.4	90	0.00
71		Xylene (Total)	0.573	0.574	-0.2	92	0.00
72		Styrene	0.959	0.960	-0.1	91	0.00
73		Bromoform	0.187	0.208	-11.2	95	0.00
74		Isopropylbenzene	1.268	1.315	-3.7	96	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 31 09:26:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.487	1.8	94	0.00
76		Bromobenzene	0.362	0.441	-21.8	113	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.326	15.8	81	0.00
78		1,2,3-Trichloropropane	0.116	0.107	7.8	91	0.00
79		n-Propylbenzene	1.718	1.704	0.8	89	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.091	17.3	76	0.00
81		2-Chlorotoluene	0.368	0.443	-20.4	107	0.00
82		4-Chlorotoluene	0.392	0.455	-16.1	106	0.00
83		1,3,5-Trimethylbenzene	1.331	1.382	-3.8	95	0.00
84		Tert-butylbenzene	1.188	1.341	-12.9	105	0.00
85		Pentachloroethane	0.000	0.000	0.0	84	0.00
86		1,2,4-Trimethylbenzene	1.416	1.478	-4.4	99	0.00
87		Sec-Butylbenzene	1.840	1.950	-6.0	98	0.00
88		1,3-Dichlorobenzene	0.805	0.974	-21.0	115	0.00
89		4-Isopropyltoluene	1.579	1.806	-14.4	105	0.00
90		1,4-Dichlorobenzene	0.804	0.985	-22.5	114	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.692	-27.9#	123	0.00
92		1,2-Dichlorobenzene	0.773	0.940	-21.6	115	0.00
93		n-Butylbenzene	1.496	1.461	2.3	91	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.058	24.7	71	0.00
95		1,2,4-Trichlorobenzene	0.529	0.627	-18.5	116	0.00
96		Hexachlorobutadiene	0.235	0.252	-7.2	117	0.00
97		Naphthalene	1.447	1.536	-6.2	103	0.00
98		1,2,3-Trichlorobenzene	0.473	0.567	-19.9	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 31 09:26:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	274068	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	250888	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.779	117	287510	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	77932	51.47	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.94%				
53) Toluene-d8	6.148	98	261095	46.89	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 93.78%				
75) 4-Bromofluorobenzene	8.881	95	140147	49.12	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.24%				
91) 1,2-Dichlorobenzene-d4	10.085	152	198985	63.93	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 127.86%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.210	85	26479	42.70	ug/L		95
3) Chloromethane	1.354	50	46210	59.50	ug/L		96
4) Vinyl chloride	1.418	62	57003	48.46	ug/L		99
5) Bromomethane	1.649	94	25332	72.00	ug/L		98
6) Chloroethane	1.718	64	35279	45.36	ug/L		93
7) Trichlorofluoromethane	1.863	101	95552	72.80	ug/L		94
8) Ethyl Ether	2.066	59	50509	49.63	ug/L		96
9) Freon 113	2.200	101	55715	59.92	ug/L		83
10) Acrolein	2.210	56	40405	242.88	ug/L	#	74
11) Tert-Butyl alcohol	2.686	59	62337	1180.55	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	55049	54.61	ug/L		88
13) Iodomethane	2.355	142	104298	115.81	ug/L		95
14) Acetonitrile	2.499	40	399297	619.60	ug/L	#	1
15) Methylene chloride	2.611	84	66224	53.88	ug/L		91
16) Trans-1,2-dichloroethene	2.772	96	58984	53.81	ug/L		87
17) Isopropyl ether	3.109	45	224538	50.92	ug/L		96
18) 1,1-Dichloroethane	3.125	63	115113	58.98	ug/L		97
19) Acetone	2.317	43	30541	107.50	ug/L	#	87
20) Methyl Acetate	4.270	43	35809	59.76	ug/L	#	100
21) MTBE	2.756	73	173685	54.75	ug/L		100
22) Carbon disulfide	2.376	76	153894	50.23	ug/L		100
24) Acrylonitrile	2.852	53	79836	265.50	ug/L		95
25) Chloroprene	3.162	53	92497	49.55	ug/L	#	84
26) n-Heptane	4.564	71	2209	2.32	ug/L	#	1
27) 2,2-Dichloropropane	3.564	77	83575	52.43	ug/L	#	67
28) Cis-1,2-dichloroethene	3.590	96	73129	56.10	ug/L		94

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 31 09:26:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	135539m	113.88 ug/L		
30) Propionitrile	3.746	54	66516	383.45 ug/L	#	91
31) Bromochloromethane	3.794	128	42359	66.92 ug/L	#	60
32) Tetrahydrofuran	3.628	72	12103	37.16 ug/L	#	1
33) Chloroform	3.847	83	125336	56.69 ug/L		99
34) Cyclohexane	3.949	56	96247	49.12 ug/L	#	87
35) 1,1,1-Trichloroethane	3.970	97	101566	60.28 ug/L		97
36) Carbon tetrachloride	4.072	117	95124	61.18 ug/L		99
37) Methylcyclohexane	4.997	83	95497	50.98 ug/L		92
38) Isobutyl Alcohol	4.270	43	35809	410.91 ug/L		97
41) 2-Butanone	3.623	43	61583	90.76 ug/L		95
42) 1,1-Dichloropropene	4.109	75	79245	48.47 ug/L		95
43) Vinyl Acetate	3.152	43	57206	31.95 ug/L	#	89
44) Benzene	4.291	78	239690	44.32 ug/L		100
45) 1,2-Dichloroethane	4.382	62	79760	46.69 ug/L	#	82
46) Trichloroethene	4.890	95	66098	47.67 ug/L	#	74
47) 1,2-Dichloropropane	5.174	63	60537	43.04 ug/L		97
48) Methyl methacrylate	5.270	69	41018	44.40 ug/L		98
49) Dibromomethane	5.292	93	43462	50.88 ug/L		100
50) Bromodichloromethane	5.441	83	83367	46.08 ug/L	#	99
51) 2-Chloroethylvinyl ether	5.784	63	145281	154.00 ug/L		90
52) Cis-1,3-dichloropropene	5.923	75	91711	39.35 ug/L		95
54) Toluene	6.217	92	158373	53.62 ug/L		99
55) Trans-1,3-dichloropropene	6.576	75	79941	42.77 ug/L		91
56) Ethyl methacrylate	6.624	69	76667	43.81 ug/L		97
57) 1,1,2-Trichloroethane	6.779	83	53324	51.08 ug/L		89
59) 4-Methyl-2-pentanone	6.099	43	132999	66.15 ug/L		95
60) 2-Hexanone	7.068	43	92436	67.07 ug/L		92
61) Tetrachloroethene	6.795	166	107585	70.82 ug/L		97
62) 1,3-Dichloropropane	6.977	76	96177	41.28 ug/L		94
63) Dibromochloromethane	7.185	129	82238	51.41 ug/L		98
64) 1,2-Dibromoethane	7.319	107	64412	44.54 ug/L		99
65) 1-Chlorohexane	7.785	91	95520	40.01 ug/L		93
66) Chlorobenzene	7.811	112	240526	50.94 ug/L	#	83
67) 1,1,1,2-Tetrachloroethane	7.908	131	101354	51.66 ug/L		95
68) Ethylbenzene	7.897	91	371460	46.06 ug/L		96
69) m,p-Xylene	8.020	106	330020	99.09 ug/L		82
70) o-Xylene	8.394	106	163507	49.80 ug/L		86
71) Xylene (Total)	8.020	106	495405m	150.44 ug/L		
72) Styrene	8.421	104	275942	50.02 ug/L		100
73) Bromoform	8.598	173	59709	46.63 ug/L		99
74) Isopropylbenzene	8.715	105	378205	51.86 ug/L		95

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 31 09:26:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

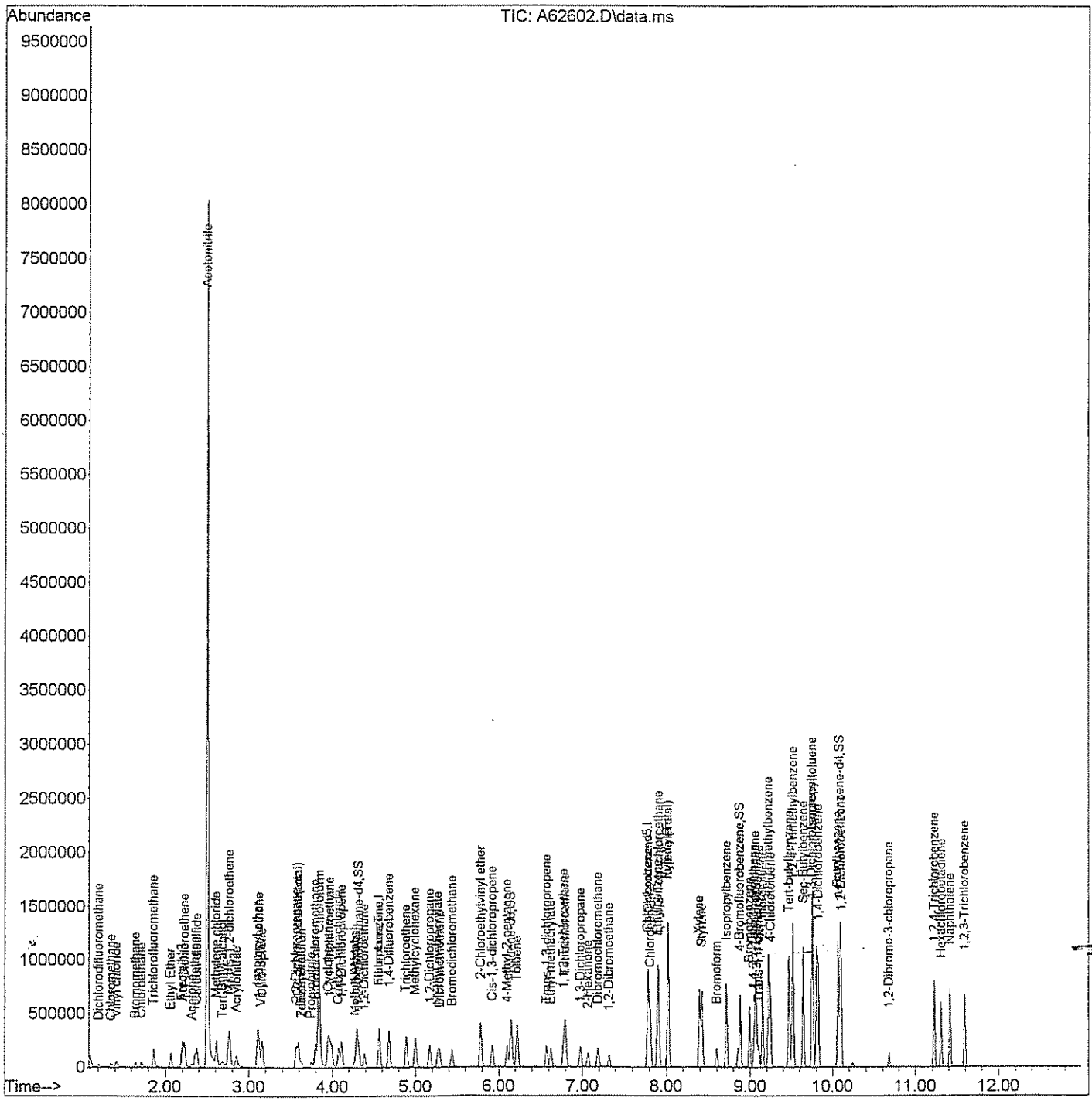
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	126688	60.80 ug/L	95
77) 1,1,2,2-Tetrachloroethane	9.047	83	93798	42.10 ug/L	95
78) 1,2,3-Trichloropropane	9.085	110	30752	46.25 ug/L	98
79) n-Propylbenzene	9.063	91	489829	49.58 ug/L	92
80) Trans-1,4-dichloro-2-b...	9.106	53	26258	41.48 ug/L #	1
81) 2-Chlorotoluene	9.149	126	127336	60.11 ug/L #	82
82) 4-Chlorotoluene	9.250	126	130733	58.03 ug/L #	68
83) 1,3,5-Trimethylbenzene	9.224	105	397374	51.93 ug/L	90
84) Tert-butylbenzene	9.470	119	385547	56.42 ug/L	92
86) 1,2,4-Trimethylbenzene	9.518	105	425038	52.22 ug/L	90
87) Sec-Butylbenzene	9.641	105	560625	52.98 ug/L	94
88) 1,3-Dichlorobenzene	9.743	146	280103	60.51 ug/L	99
89) 4-Isopropyltoluene	9.753	119	519310	57.19 ug/L	93
90) 1,4-Dichlorobenzene	9.823	146	283143	61.27 ug/L	99
92) 1,2-Dichlorobenzene	10.101	146	270277	60.77 ug/L	98
93) n-Butylbenzene	10.058	91	420040	48.83 ug/L #	85
94) 1,2-Dibromo-3-chloropr...	10.679	75	16729	38.02 ug/L #	49
95) 1,2,4-Trichlorobenzene	11.224	180	180358	59.29 ug/L	96
96) Hexachlorobutadiene	11.305	225	72329	53.49 ug/L	96
97) Naphthalene	11.412	128	441716	53.09 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	162912	59.91 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

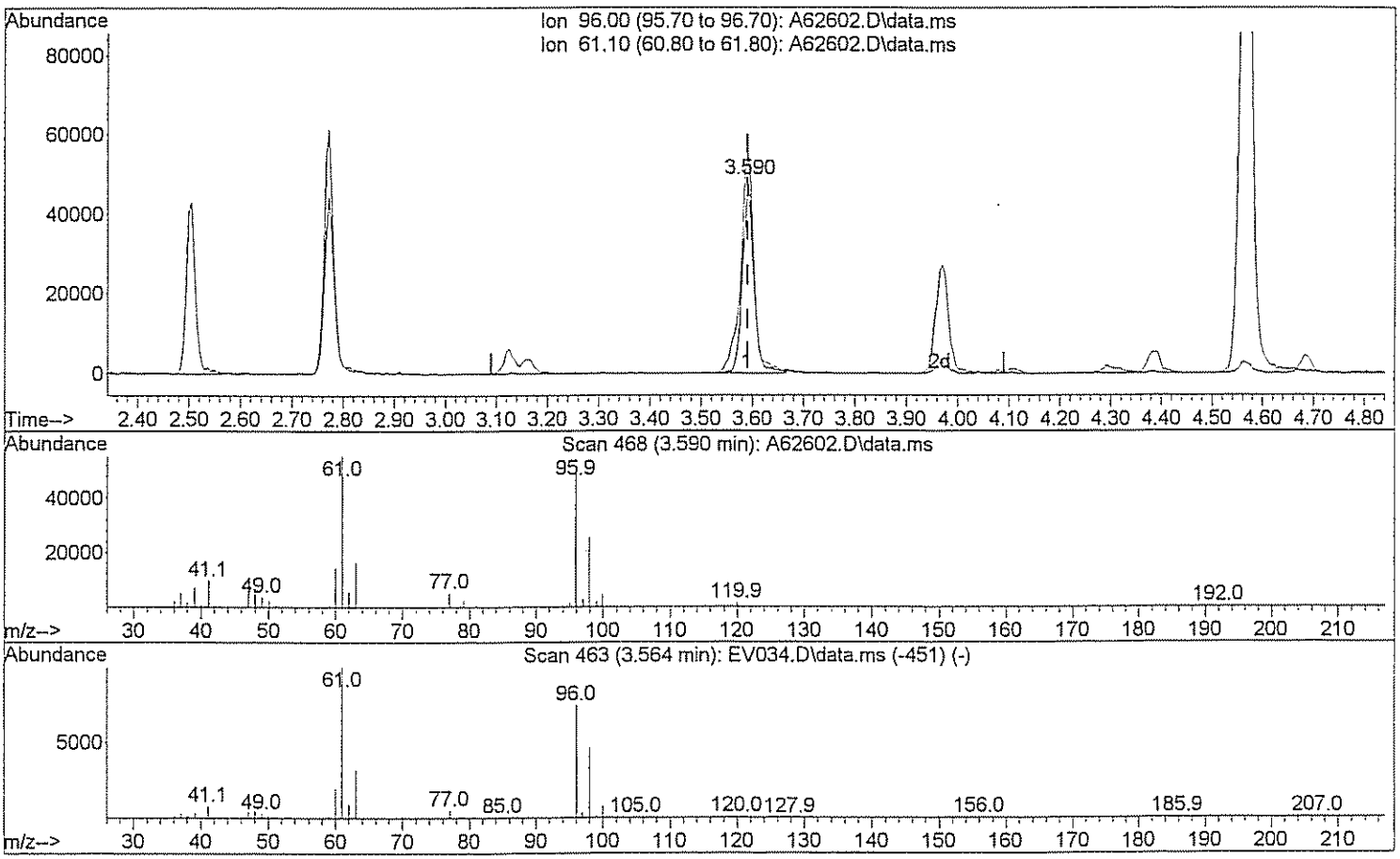
Quant Time: Mar 31 09:26:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 27 07:39:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62602.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 61.44 ug/L

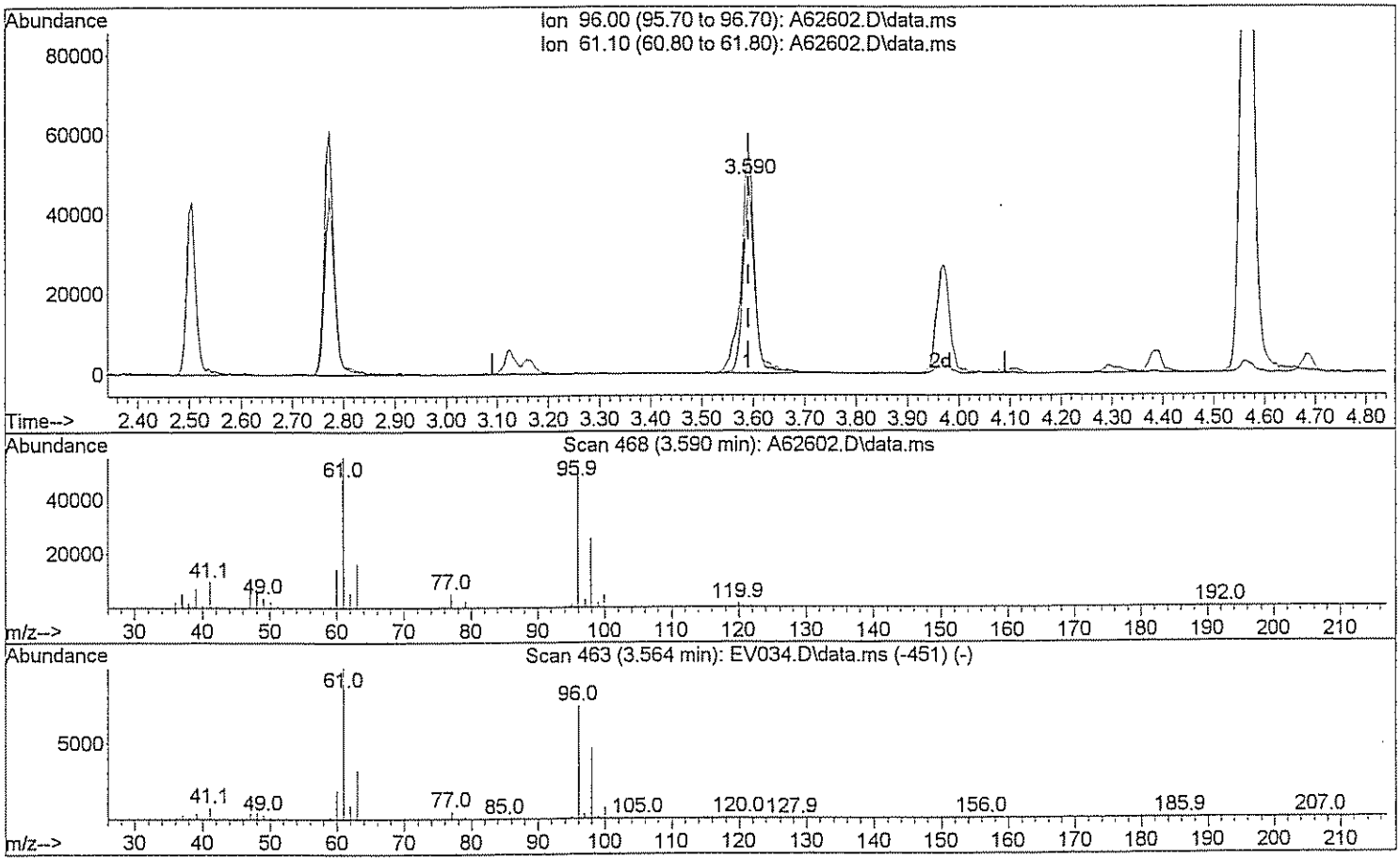
response 73129

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	136.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 27 07:39:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62602.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 113.88 ug/L m DW 3/31/09

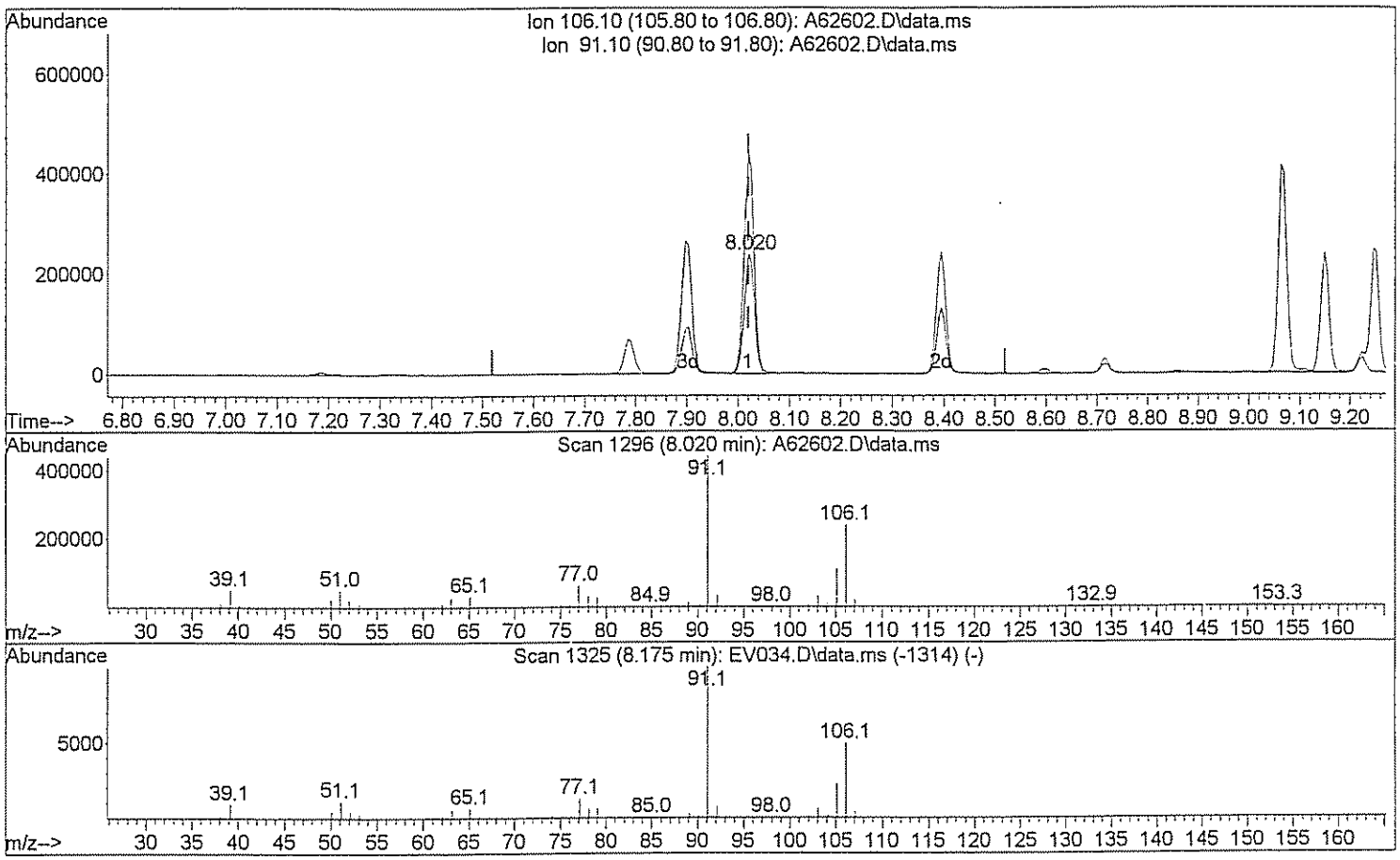
response 135539

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	73.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 27 07:39:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62602.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 100.22 ug/L

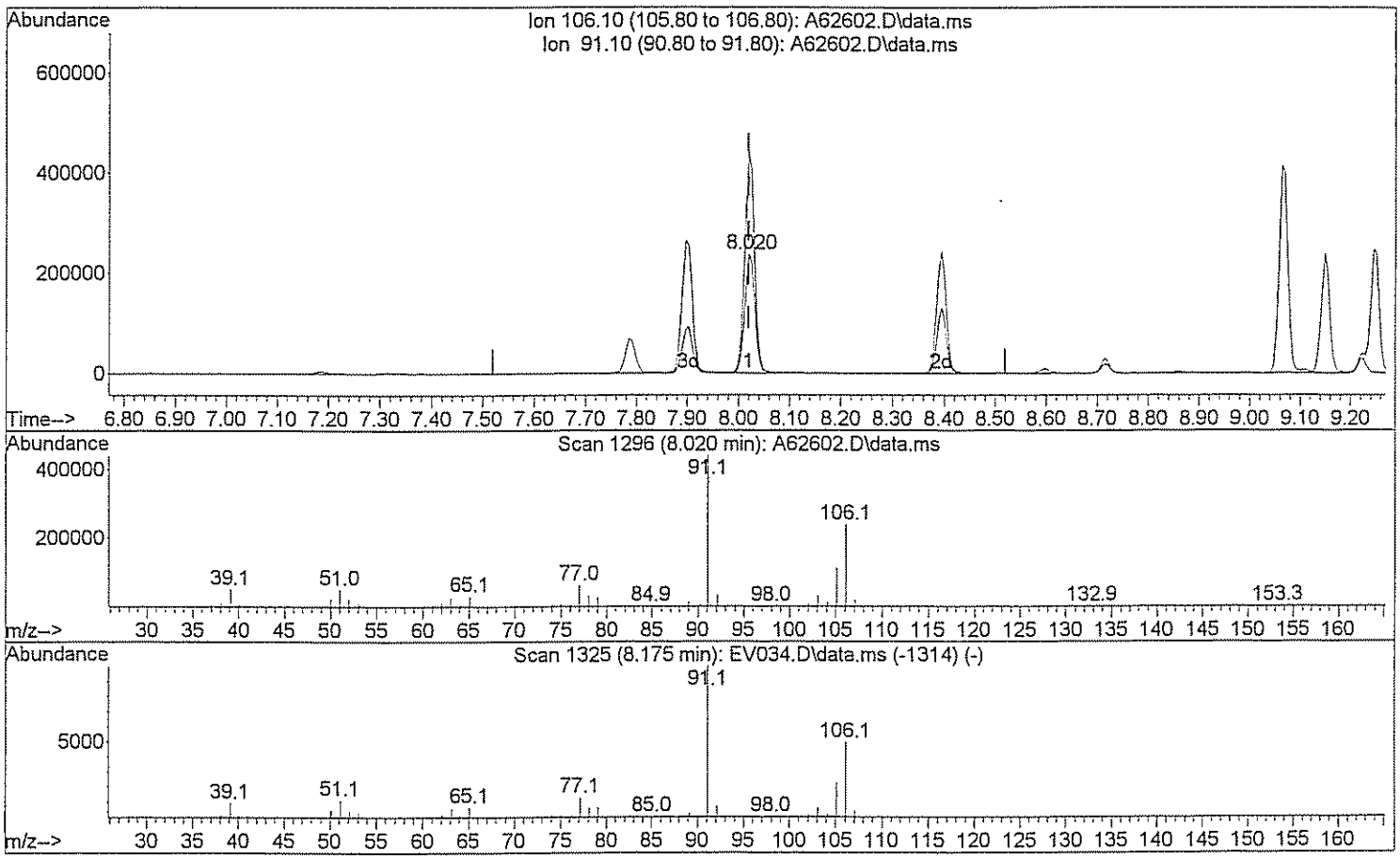
response 330020

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	180.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62602.D
Acq On : 26 Mar 2009 10:16 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Mar 27 07:39:05 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62602.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 150.44 ug/L m DM 3/31/09

response 495405

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	120.27#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	113	0.00
2		Dichlorodifluoromethane	0.113	0.094	16.8	122	0.01
3		Chloromethane	0.142	0.169	-19.0	180#	0.00
4		Vinyl chloride	0.183	0.205	-12.0	138	0.00
5		Bromomethane	0.064	0.102	-59.4#	210#	0.00
6		Chloroethane	0.142	0.138	2.8	133	0.00
7		Trichlorofluoromethane	0.239	0.357	-49.4#	185#	0.01
8		Ethyl Ether	0.186	0.185	0.5	140	0.00
9		Freon 113	0.170	0.208	-22.4	179#	0.00
10		Acrolein	0.043	0.033	23.3	121	0.00
11		Tert-Butyl alcohol	0.020	0.013	35.0#	129	0.00
12		1,1-Dichloroethene	0.184	0.205	-11.4	165#	0.00
13		Iodomethane	0.164	0.317	-93.3#	198#	0.00
14		Acetonitrile	0.096	0.163	-69.8#	208#	0.00
15		Methylene chloride	0.257	0.227	11.7	140	0.00
16		Trans-1,2-dichloroethene	0.200	0.220	-10.0	149	0.00
17		Isopropyl ether	0.805	0.806	-0.1	136	0.01
18		1,1-Dichloroethane	0.356	0.399	-12.1	143	0.00
19		Acetone	0.092	0.061	33.7#	122	0.00
20		Methyl Acetate	0.209	0.136	34.9#	101	0.00
21		MTBE	0.579	0.614	-6.0	143	0.00
22		Carbon disulfide	0.764	0.532	30.4#	127	0.01
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.061	18.7	127	0.00
25		Chloroprene	0.341	0.341	0.0	142	0.00
26	T	n-Heptane	0.174	0.008	95.4#	6#	0.12
27		2,2-Dichloropropane	0.291	0.310	-6.5	132	0.01
28		Cis-1,2-dichloroethene	0.238	0.254	-6.7	138	0.00
29		1,2-dichloroethene(total)	0.217	0.242	-11.5	144	0.00
30		Propionitrile	0.032	0.023	28.1#	97	0.00
31		Bromochloromethane	0.115	0.136	-18.3	146	0.00
32		Tetrahydrofuran	0.059	0.046	22.0	103	0.01
33		Chloroform	0.403	0.428	-6.2	139	0.00
34		Cyclohexane	0.398	0.369	7.3	130	0.00
35		1,1,1-Trichloroethane	0.307	0.359	-16.9	135	0.00
36		Carbon tetrachloride	0.232	0.317	-36.6#	137	0.00
37		Methylcyclohexane	0.342	0.348	-1.8	120	0.00
38		Isobutyl Alcohol	0.016	0.007	56.3#	54	-0.17

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.281	-1.8	118	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	124	0.00
41		2-Butanone	0.191	0.130	31.9#	116	0.00
42		1,1-Dichloropropene	0.326	0.318	2.5	121	0.00
43		Vinyl Acetate	0.357	0.251	29.7#	104	0.00
44		Benzene	1.078	0.938	13.0	112	0.00
45		1,2-Dichloroethane	0.340	0.336	1.2	123	0.00
46		Trichloroethene	0.276	0.249	9.8	116	0.00
47		1,2-Dichloropropane	0.280	0.228	18.6	97	0.00
48		Methyl methacrylate	0.221	0.151	31.7#	94	0.00
49		Dibromomethane	0.170	0.162	4.7	115	0.00
50		Bromodichloromethane	0.361	0.327	9.4	109	0.00
51		2-Chloroethylvinyl ether	0.188	0.152	19.1	100	0.00
52		Cis-1,3-dichloropropene	0.408	0.364	10.8	99	0.00
53	SS	Toluene-d8	1.110	1.077	3.0	160#	0.00
54		Toluene	0.589	0.609	-3.4	149	0.00
55		Trans-1,3-dichloropropene	0.372	0.319	14.2	128	0.00
56		Ethyl methacrylate	0.349	0.277	20.6	125	0.00
57		1,1,2-Trichloroethane	0.208	0.179	13.9	138	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	168#	0.00
59		4-Methyl-2-pentanone	0.350	0.253	27.7#	131	0.00
60		2-Hexanone	0.240	0.182	24.2	131	0.00
61		Tetrachloroethene	0.264	0.281	-6.4	168#	0.00
62		1,3-Dichloropropane	0.405	0.359	11.4	142	0.00
63		Dibromochloromethane	0.278	0.273	1.8	151#	0.01
64		1,2-Dibromoethane	0.251	0.233	7.2	144	0.00
65		1-Chlorohexane	0.415	0.361	13.0	153#	0.00
66		Chlorobenzene	0.821	0.829	-1.0	161#	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.318	-4.3	162#	0.00
68		Ethylbenzene	1.403	1.344	4.2	157#	0.00
69		m,p-Xylene	0.579	0.579	0.0	164#	0.00
70		o-Xylene	0.571	0.574	-0.5	159#	0.00
71		Xylene (Total)	0.573	0.579	-1.0	162#	0.00
72		Styrene	0.959	0.973	-1.5	161#	0.00
73		Bromoform	0.187	0.201	-7.5	160#	0.00
74		Isopropylbenzene	1.268	1.335	-5.3	170#	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.507	-2.2	171#	0.00
76		Bromobenzene	0.362	0.389	-7.5	175#	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.355	8.3	153#	0.00
78		1,2,3-Trichloropropane	0.116	0.102	12.1	151#	0.00
79		n-Propylbenzene	1.718	1.747	-1.7	160#	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.106	3.6	154#	0.00
81		2-Chlorotoluene	0.368	0.394	-7.1	166#	0.00
82		4-Chlorotoluene	0.392	0.417	-6.4	169#	0.00
83		1,3,5-Trimethylbenzene	1.331	1.376	-3.4	166#	0.00
84		Tert-butylbenzene	1.188	1.262	-6.2	172#	0.00
85		Pentachloroethane	0.000	0.000	0.0	167#	0.00
86		1,2,4-Trimethylbenzene	1.416	1.493	-5.4	174#	0.00
87		Sec-Butylbenzene	1.840	1.910	-3.8	168#	0.00
88		1,3-Dichlorobenzene	0.805	0.899	-11.7	185#	0.00
89		4-Isopropyltoluene	1.579	1.793	-13.6	181#	0.00
90		1,4-Dichlorobenzene	0.804	0.896	-11.4	181#	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.613	-13.3	190#	0.00
92		1,2-Dichlorobenzene	0.773	0.871	-12.7	186#	0.00
93		n-Butylbenzene	1.496	1.528	-2.1	167#	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.069	10.4	146	0.00
95		1,2,4-Trichlorobenzene	0.529	0.567	-7.2	183#	0.00
96		Hexachlorobutadiene	0.235	0.235	0.0	191#	0.00
97		Naphthalene	1.447	1.418	2.0	167#	0.00
98		1,2,3-Trichlorobenzene	0.473	0.498	-5.3	179#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	552639	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	501933	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.785	117	502179	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	155029	50.78	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.56%				
53) Toluene-d8	6.148	98	540442	48.51	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 97.02%				
75) 4-Bromofluorobenzene	8.881	95	254466	51.06	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 102.12%				
91) 1,2-Dichlorobenzene-d4	10.085	152	307597	56.58	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 113.16%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	51746	41.38	ug/L		100
3) Chloromethane	1.354	50	93401	59.64	ug/L		95
4) Vinyl chloride	1.418	62	113225	47.81	ug/L		95
5) Bromomethane	1.654	94	56181	79.18	ug/L		95
6) Chloroethane	1.723	64	76486	48.77	ug/L		98
7) Trichlorofluoromethane	1.868	101	197090	74.47	ug/L		99
8) Ethyl Ether	2.066	59	102324	49.87	ug/L		99
9) Freon 113	2.205	101	114725	61.19	ug/L		98
10) Acrolein	2.210	56	90680	265.69	ug/L	#	74
11) Tert-Butyl alcohol	2.686	59	148863	1282.66	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	113331	55.76	ug/L		80
13) Iodomethane	2.355	142	175317	96.54	ug/L		98
14) Acetonitrile	2.504	40	901042	686.28	ug/L	#	1
15) Methylene chloride	2.611	84	125211	50.68	ug/L		97
16) Trans-1,2-dichloroethene	2.772	96	121839	55.12	ug/L		81
17) Isopropyl ether	3.109	45	445489	50.10	ug/L		98
18) 1,1-Dichloroethane	3.125	63	220563	56.05	ug/L		95
19) Acetone	2.317	43	67873	115.36	ug/L		99
20) Methyl Acetate	4.270	43	75188	61.05	ug/L	#	100
21) MTBE	2.756	73	339575	53.09	ug/L		100
22) Carbon disulfide	2.381	76	293786	47.63	ug/L		100
24) Acrylonitrile	2.852	53	167972	274.79	ug/L		96
25) Chloroprene	3.162	53	188576	50.10	ug/L		90
26) n-Heptane	4.564	71	4279	2.23	ug/L	#	1
27) 2,2-Dichloropropane	3.569	77	171134	53.24	ug/L	#	78
28) Cis-1,2-dichloroethene	3.590	96	140457	53.43	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	267407m	111.42 ug/L		
30) Propionitrile	3.746	54	126185	360.75 ug/L		96
31) Bromochloromethane	3.799	128	75177	58.90 ug/L		77
32) Tetrahydrofuran	3.628	72	25563	38.92 ug/L	#	1
33) Chloroform	3.847	83	236626	53.08 ug/L		98
34) Cyclohexane	3.949	56	203985	51.60 ug/L		92
35) 1,1,1-Trichloroethane	3.970	97	198196	58.34 ug/L		99
36) Carbon tetrachloride	4.077	117	175066	55.91 ug/L		95
37) Methylcyclohexane	5.003	83	192068	50.85 ug/L		90
38) Isobutyl Alcohol	4.270	43	75188	427.87 ug/L		90
41) 2-Butanone	3.622	43	130760	95.53 ug/L		96
42) 1,1-Dichloropropene	4.109	75	159563	48.79 ug/L		99
43) Vinyl Acetate	3.152	43	125930	35.16 ug/L		96
44) Benzene	4.297	78	470881	43.52 ug/L		100
45) 1,2-Dichloroethane	4.388	62	168899	49.42 ug/L		92
46) Trichloroethene	4.896	95	124785	44.98 ug/L		80
47) 1,2-Dichloropropane	5.169	63	114505	40.69 ug/L		95
48) Methyl methacrylate	5.270	69	75593	41.06 ug/L		95
49) Dibromomethane	5.286	93	81458	47.66 ug/L		100
50) Bromodichloromethane	5.436	83	164021	45.32 ug/L	#	99
51) 2-Chloroethylvinyl ether	5.784	63	305220	161.72 ug/L	#	89
52) Cis-1,3-dichloropropene	5.918	75	182476	39.15 ug/L		94
54) Toluene	6.222	92	305711	51.74 ug/L		96
55) Trans-1,3-dichloropropene	6.576	75	160320	42.87 ug/L		94
56) Ethyl methacrylate	6.624	69	139228	39.77 ug/L		91
57) 1,1,2-Trichloroethane	6.779	83	90026	43.10 ug/L		88
59) 4-Methyl-2-pentanone	6.099	43	254174	72.38 ug/L		96
60) 2-Hexanone	7.068	43	182753	75.92 ug/L		95
61) Tetrachloroethene	6.800	166	141058	53.16 ug/L		98
62) 1,3-Dichloropropane	6.977	76	180102	44.26 ug/L		92
63) Dibromochloromethane	7.185	129	136906	49.00 ug/L		98
64) 1,2-Dibromoethane	7.319	107	116798	46.24 ug/L		99
65) 1-Chlorohexane	7.790	91	181286	43.48 ug/L		97
66) Chlorobenzene	7.811	112	416218	50.46 ug/L		87
67) 1,1,1,2-Tetrachloroethane	7.908	131	159768	46.96 ug/L		96
68) Ethylbenzene	7.897	91	675165	47.93 ug/L		98
69) m,p-Xylene	8.020	106	581273	99.92 ug/L		87
70) o-Xylene	8.394	106	288332	50.28 ug/L		89
71) Xylene (Total)	8.020	106	872075m	151.62 ug/L		
72) Styrene	8.421	104	488380	50.68 ug/L		97
73) Bromoform	8.598	173	100817	45.22 ug/L		96
74) Isopropylbenzene	8.715	105	670435	52.63 ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

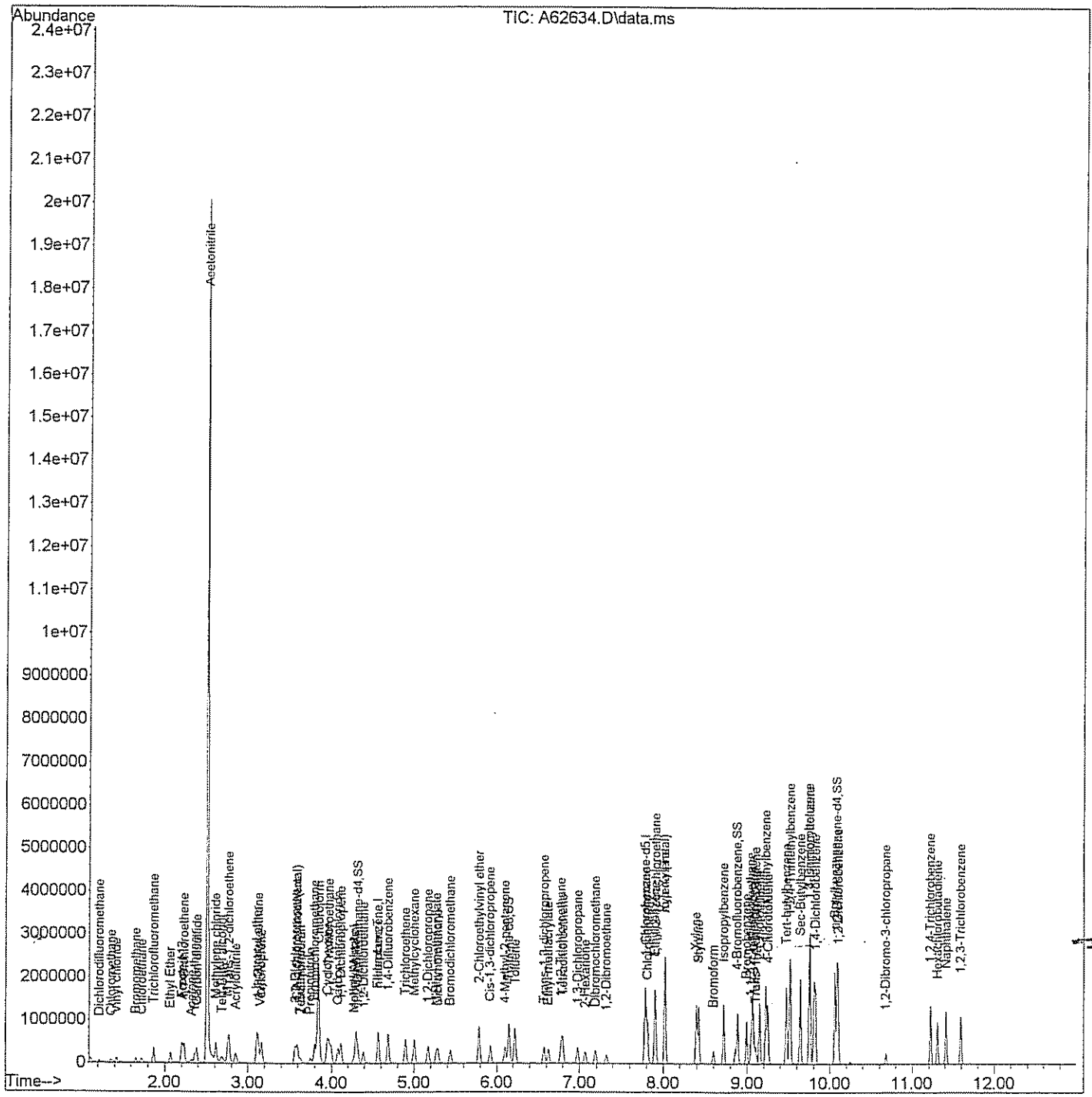
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	195321	53.67 ug/L	99
77) 1,1,2,2-Tetrachloroethane	9.047	83	178283	45.81 ug/L	97
78) 1,2,3-Trichloropropane	9.085	110	51276	44.15 ug/L	95
79) n-Propylbenzene	9.068	91	877534	50.86 ug/L	95
80) Trans-1,4-dichloro-2-b...	9.106	53	53465	48.35 ug/L #	1
81) 2-Chlorotoluene	9.149	126	197976	53.51 ug/L	90
82) 4-Chlorotoluene	9.250	126	209177	53.16 ug/L	84
83) 1,3,5-Trimethylbenzene	9.224	105	690785	51.69 ug/L	94
84) Tert-butylbenzene	9.470	119	633903	53.11 ug/L	96
86) 1,2,4-Trimethylbenzene	9.518	105	749521	52.72 ug/L	92
87) Sec-Butylbenzene	9.641	105	959114	51.89 ug/L	99
88) 1,3-Dichlorobenzene	9.748	146	451424	55.83 ug/L	98
89) 4-Isopropyltoluene	9.753	119	900644	56.78 ug/L	99
90) 1,4-Dichlorobenzene	9.823	146	449843	55.73 ug/L	99
92) 1,2-Dichlorobenzene	10.101	146	437362	56.30 ug/L	99
93) n-Butylbenzene	10.058	91	767278	51.06 ug/L	94
94) 1,2-Dibromo-3-chloropr...	10.679	75	34527	44.93 ug/L #	74
95) 1,2,4-Trichlorobenzene	11.219	180	284594	53.56 ug/L	96
96) Hexachlorobutadiene	11.305	225	118202	50.04 ug/L	100
97) Naphthalene	11.412	128	712069	49.00 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	250167	52.67 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

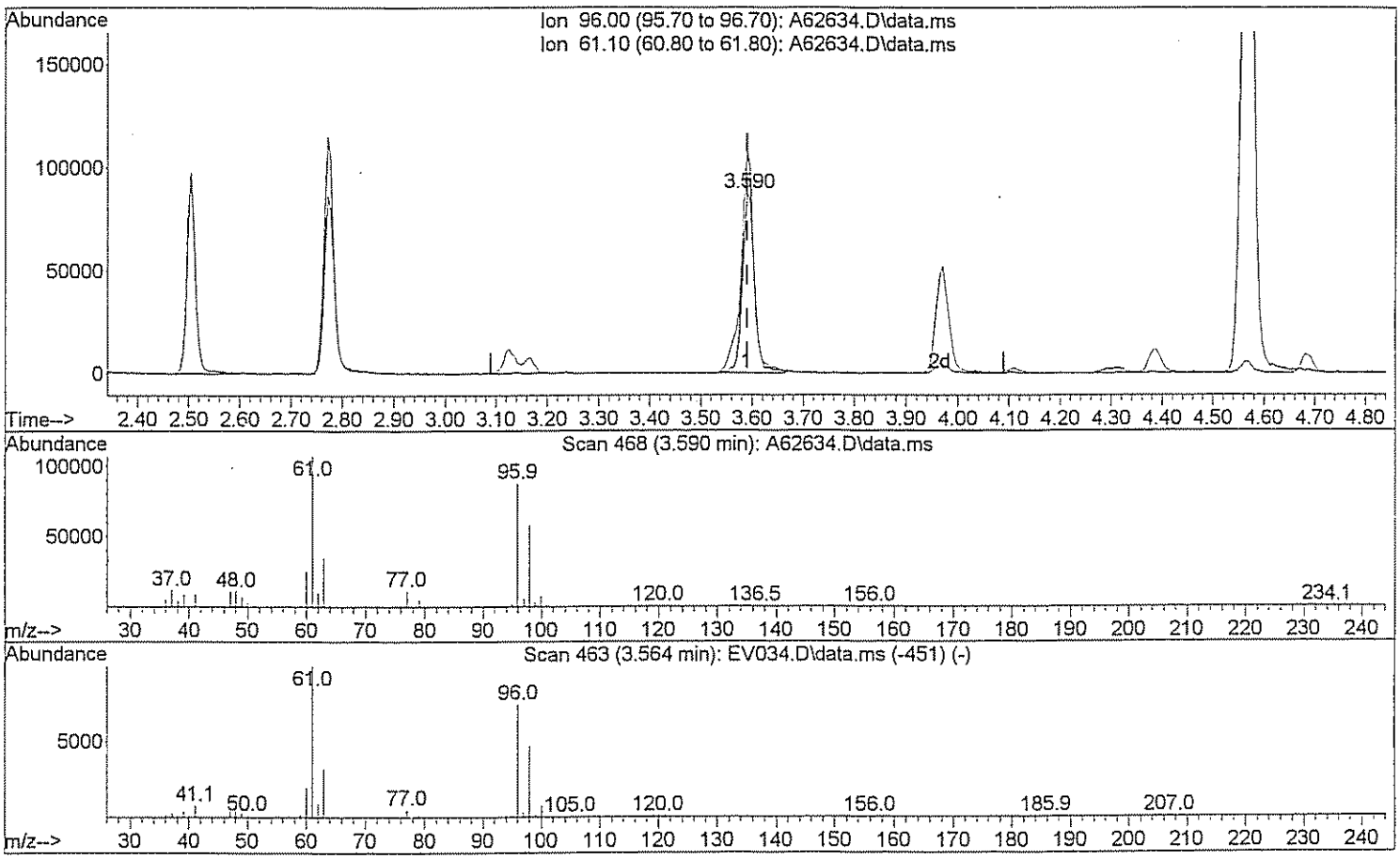
Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 30 08:42:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62634.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 58.52 ug/L

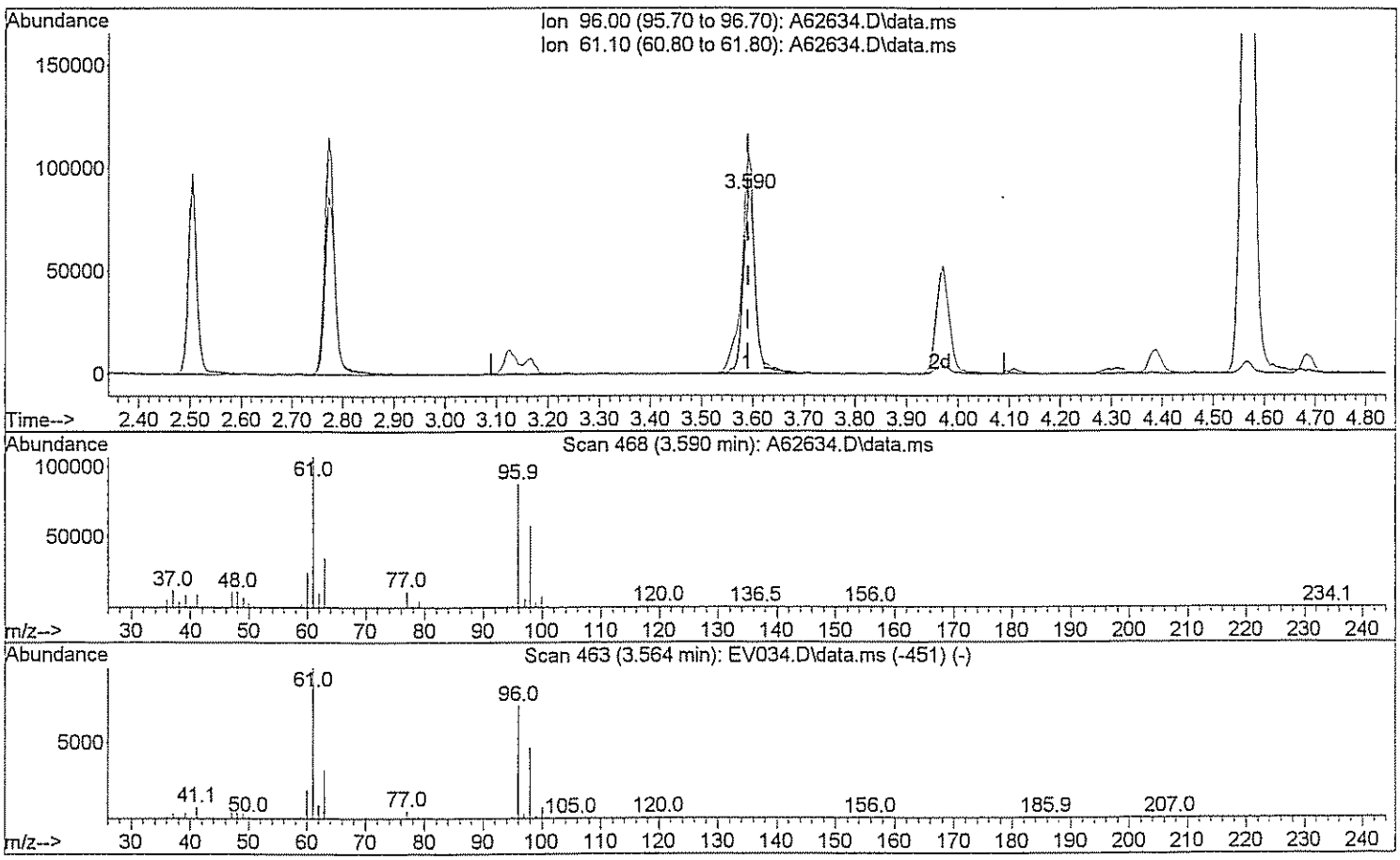
response 140457

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	136.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 30 08:42:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62634.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 111.42 ug/L m Sm 3/31/09

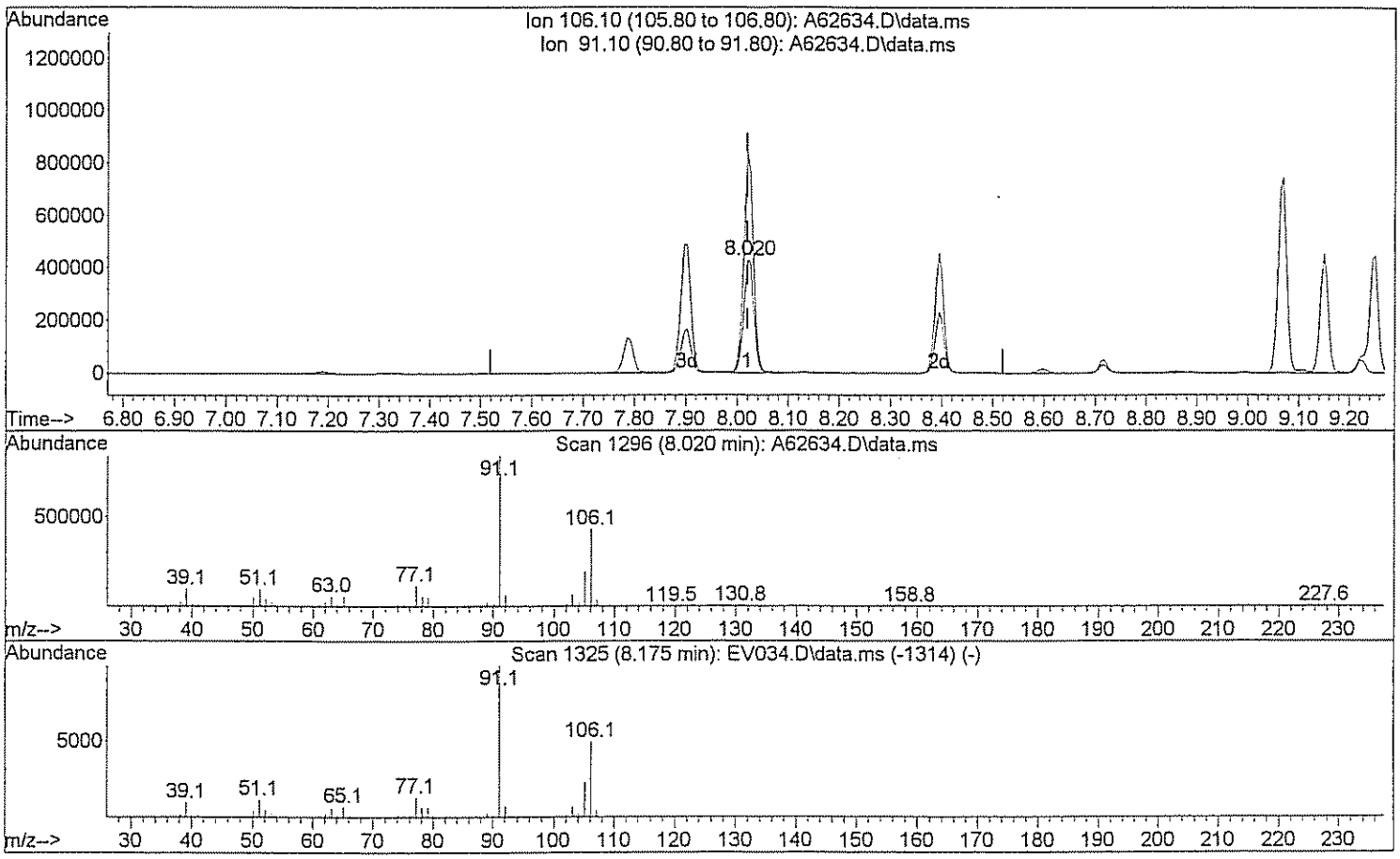
response 267407

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	71.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 30 08:42:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62634.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 101.06 ug/L

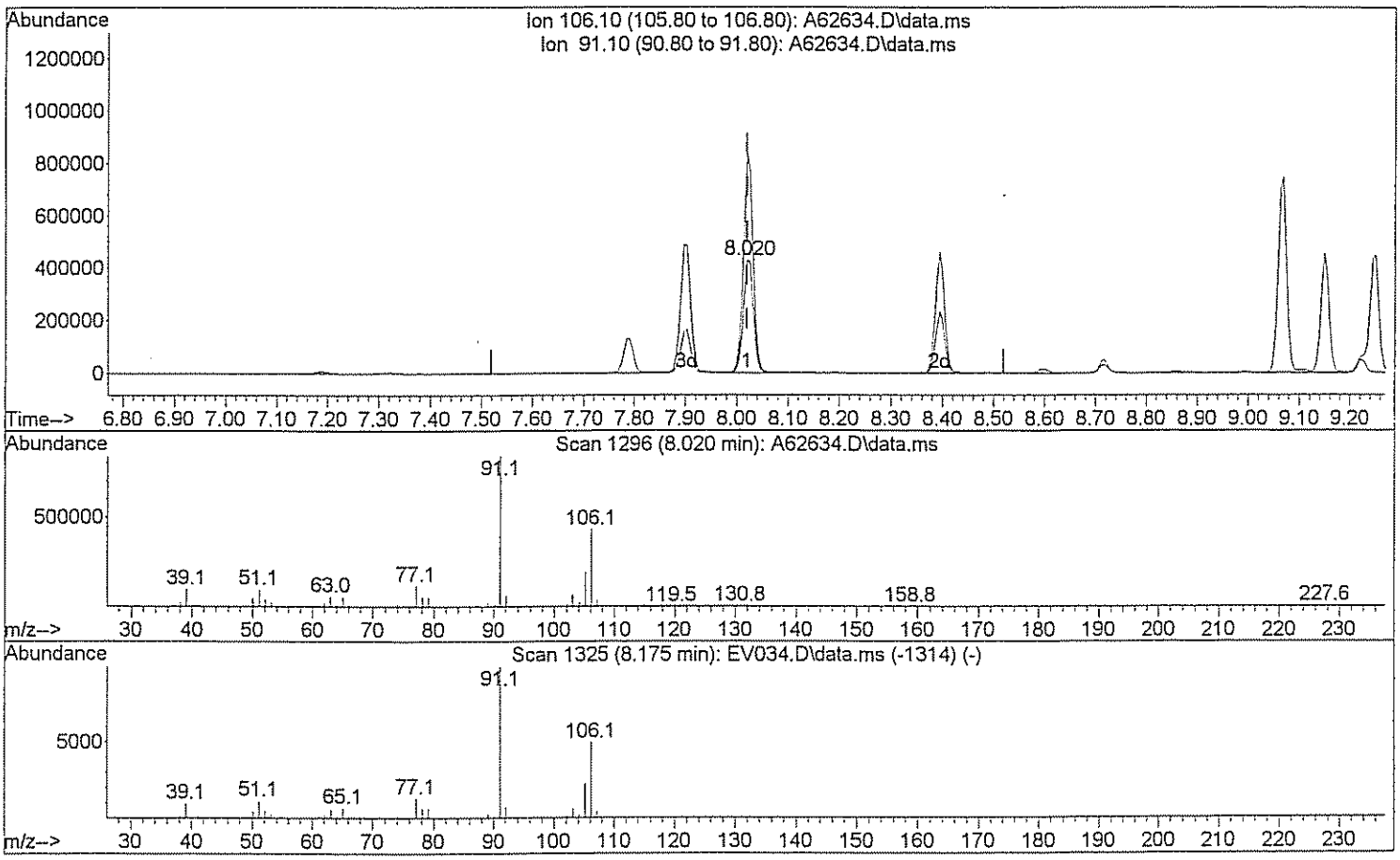
response 581273

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 30 08:42:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62634.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 151.62 ug/L m 3/31/09

response 872075

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	125.37#
0.00	0.00	0.00
0.00	0.00	0.00

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

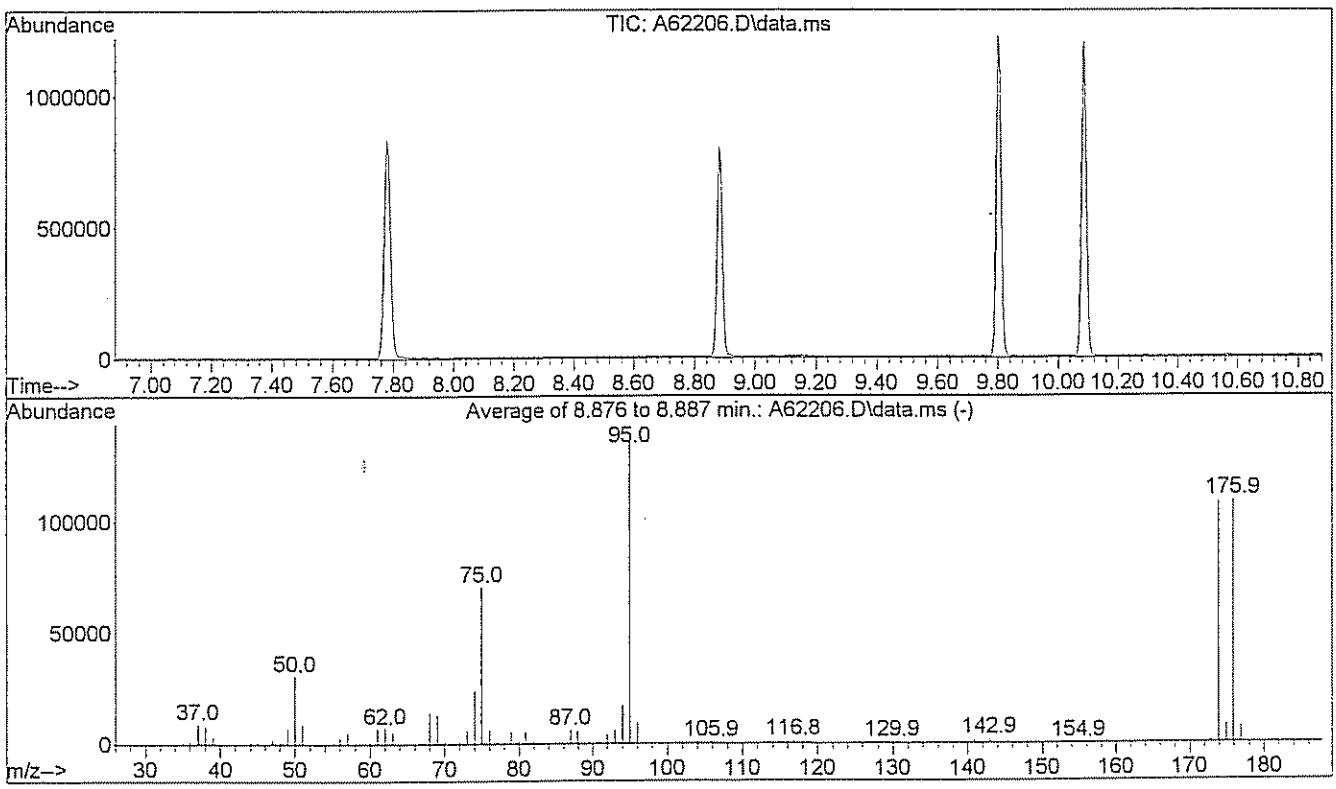
6. Injection Logsheet

7. Control Charts (where applicable)

Data Path : H:\GCMSDATA\A\031009C2\
Data File : A62206.D
Acq On : 10 Mar 2009 7:55
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 51 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Title : 8260
Last Update : Tue Mar 10 15:42:35 2009



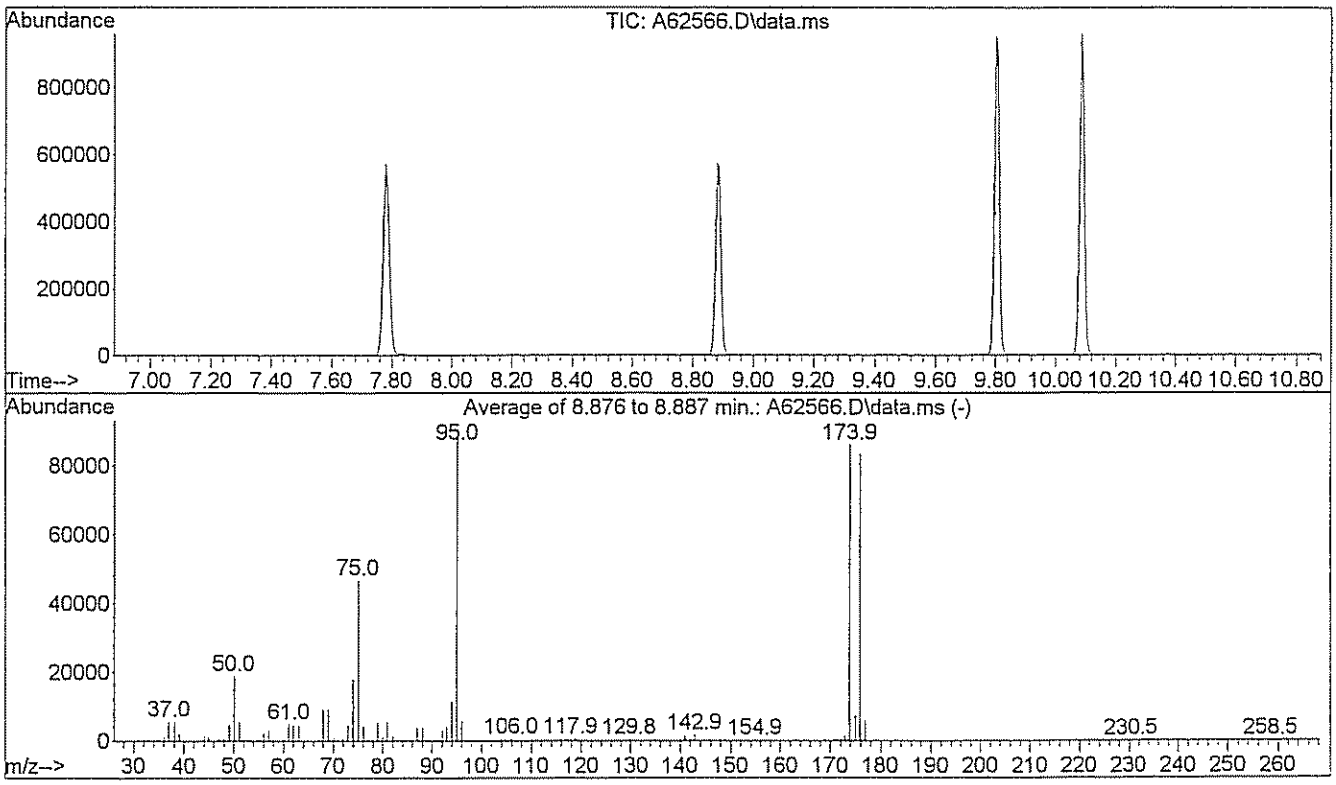
Spectrum Information: Average of 8.876 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	30827	PASS
75	95	30	60	51.3	70403	PASS
95	95	100	100	100.0	137192	PASS
96	95	5	9	6.7	9147	PASS
173	174	0.00	2	1.1	1158	PASS
174	95	50	100	78.5	107739	PASS
175	174	5	9	7.5	8069	PASS
176	174	95	101	100.8	108616	PASS
177	176	5	9	6.6	7206	PASS

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62566.D
Acq On : 26 Mar 2009 8:47
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 51 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009



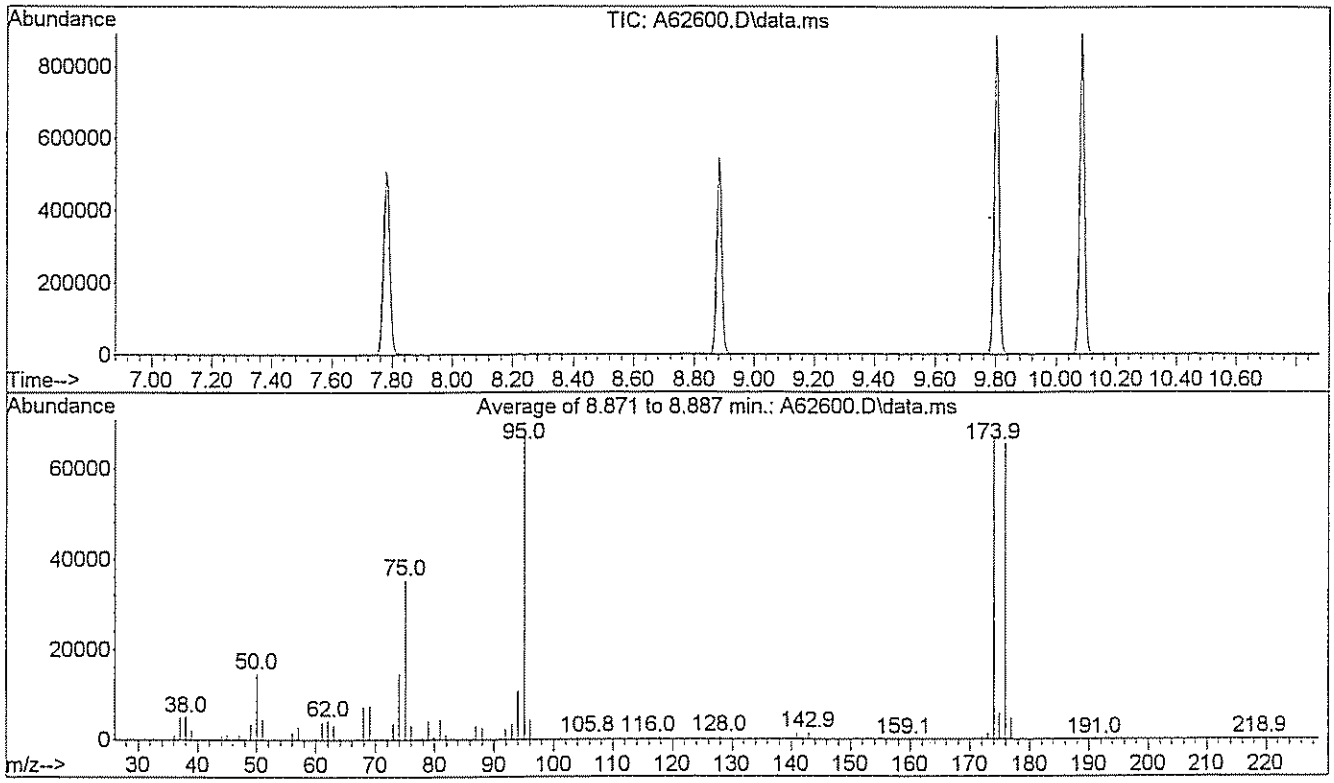
Spectrum Information: Average of 8.876 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.3	18987	PASS
75	95	30	60	52.6	46851	PASS
95	95	100	100	100.0	89008	PASS
96	95	5	9	6.6	5899	PASS
173	174	0.00	2	1.6	1409	PASS
174	95	50	100	97.0	86309	PASS
175	174	5	9	8.5	7347	PASS
176	174	95	101	96.4	83216	PASS
177	176	5	9	7.1	5874	PASS

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62600.D
Acq On : 26 Mar 2009 9:35 pm
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 68 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009



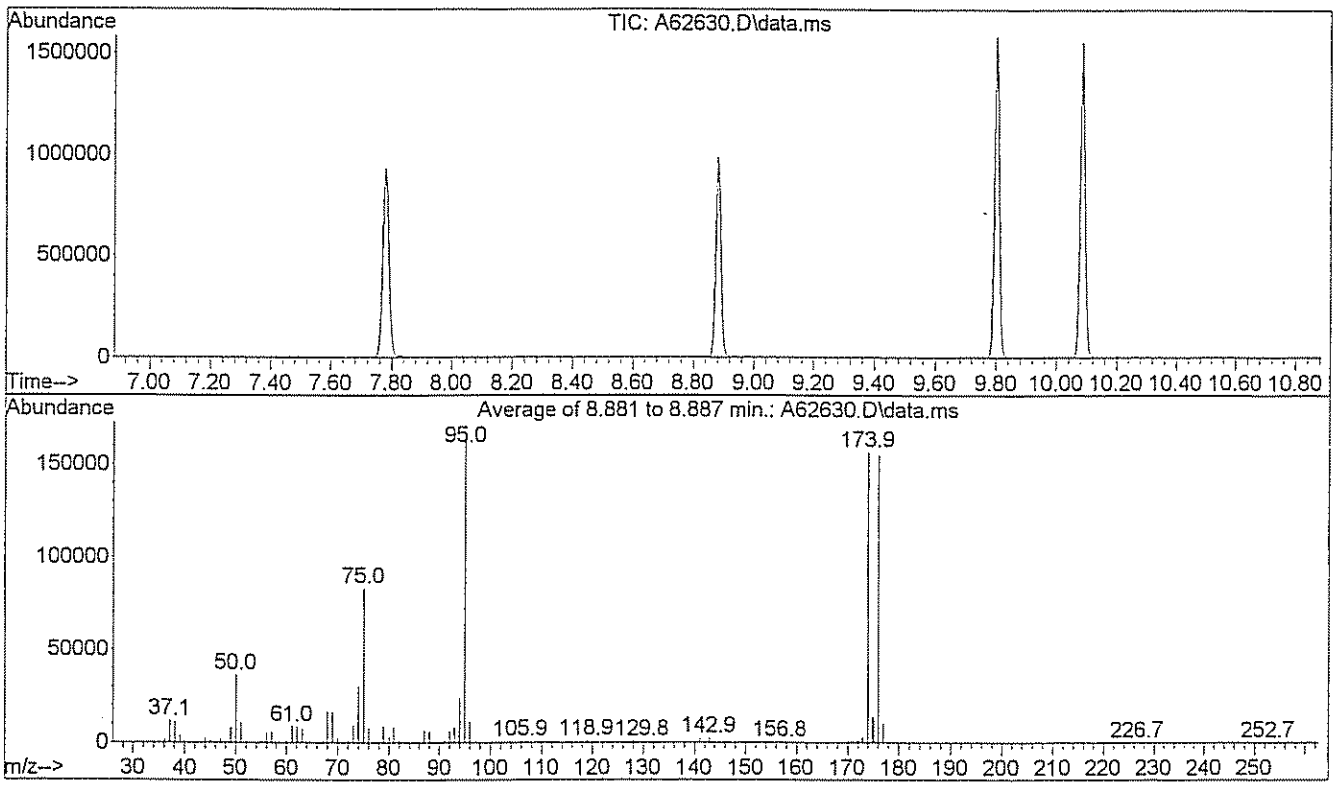
Spectrum Information: Average of 8.871 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	14635	PASS
75	95	30	60	52.4	35377	PASS
95	95	100	100	100.0	67496	PASS
96	95	5	9	6.5	4414	PASS
173	174	0.00	2	1.9	1261	PASS
174	95	50	100	98.7	66638	PASS
175	174	5	9	8.5	5686	PASS
176	174	95	101	98.3	65520	PASS
177	176	5	9	7.5	4898	PASS

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62630.D
Acq On : 27 Mar 2009 8:38 am
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 51 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009



Spectrum Information: Average of 8.881 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	36300	PASS
75	95	30	60	50.5	83100	PASS
95	95	100	100	100.0	164608	PASS
96	95	5	9	6.7	11110	PASS
173	174	0.00	2	1.7	2676	PASS
174	95	50	100	95.2	156768	PASS
175	174	5	9	8.6	13522	PASS
176	174	95	101	98.8	154848	PASS
177	176	5	9	6.8	10554	PASS

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108893
Sample Volume :	5	Lab File ID :	A62572.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108893
Sample Volume :	5	Lab File ID :	A62572.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108893
Sample Volume :	5	Lab File ID :	A62572.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62572.D
Acq On : 26 Mar 2009 11:33
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 27 13:13:28 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	269319	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	241357	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	259746	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	74057	49.77	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.54%			
53) Toluene-d8	6.148	98	245027	45.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 91.48%			
75) 4-Bromofluorobenzene	8.881	95	118670	46.04	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 92.08%			
91) 1,2-Dichlorobenzene-d4	10.085	152	168008	59.75	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 119.50%			

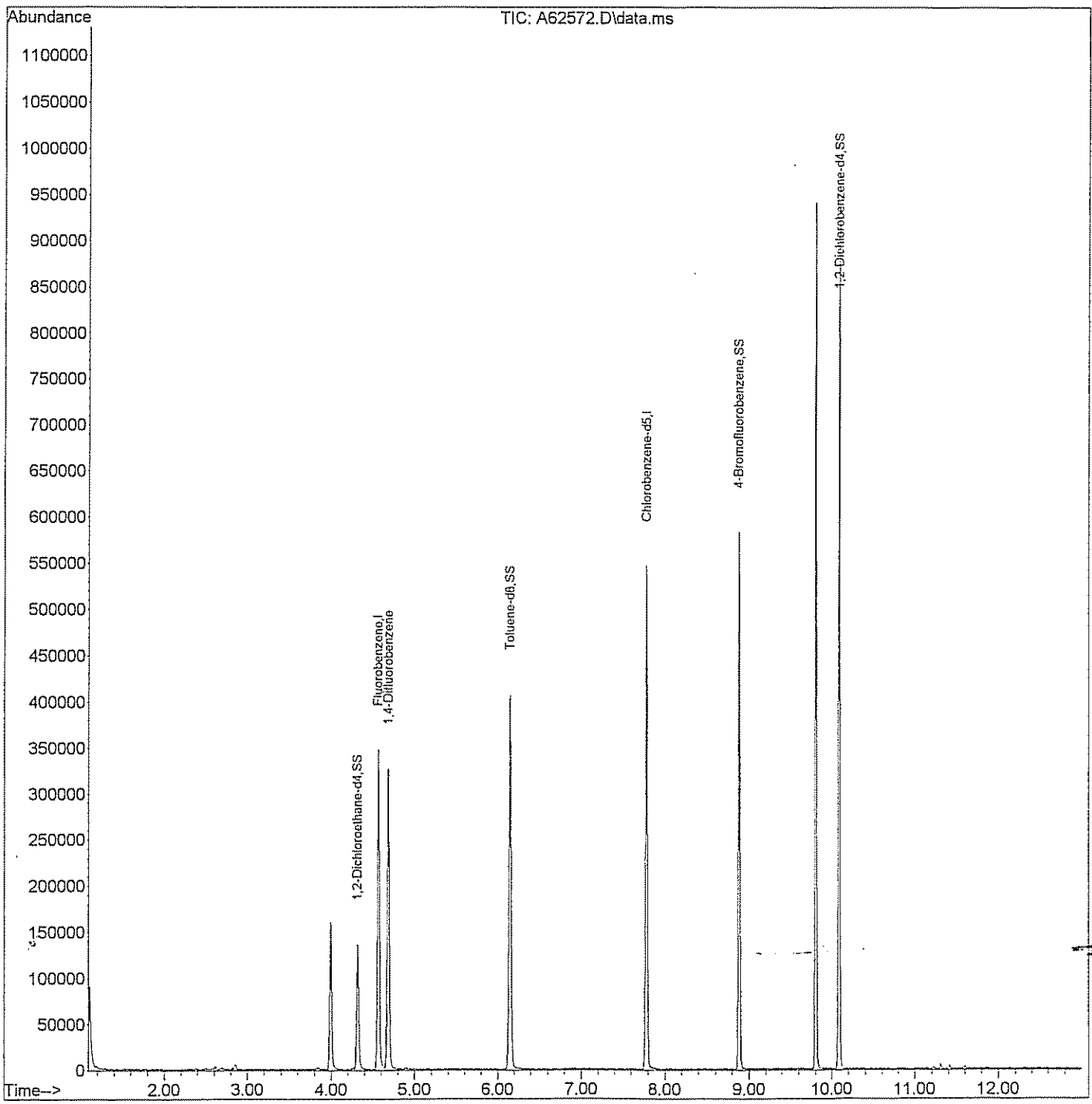
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62572.D
Acq On : 26 Mar 2009 11:33
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 27 13:13:28 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108899
Sample Volume :	5	Lab File ID :	A62606.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108899
Sample Volume :	5	Lab File ID :	A62606.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108899
Sample Volume :	5	Lab File ID :	A62606.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62606.D
Acq On : 26 Mar 2009 11:36 pm
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 71 Sample Multiplier: 1

Quant Time: Mar 31 09:28:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

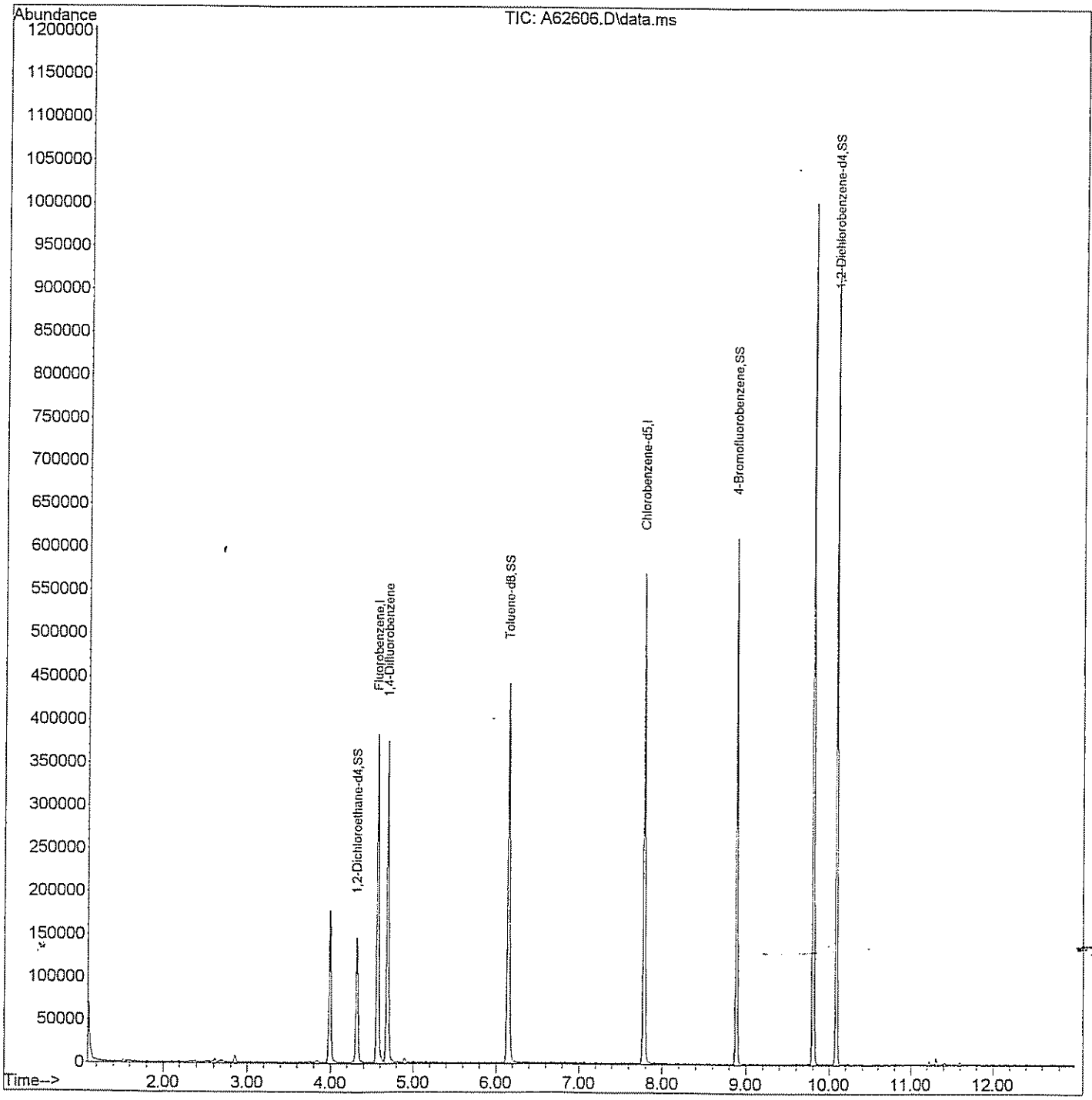
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	292461	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	271000	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	278286	50.00	ug/L	# 0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	77713	48.10	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.20%			
53) Toluene-d8	6.148	98	265928	44.21	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 88.42%			
75) 4-Bromofluorobenzene	8.881	95	125045	45.28	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 90.56%			
91) 1,2-Dichlorobenzene-d4	10.085	152	174686	57.98	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.96%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62606.D
Acq On : 26 Mar 2009 11:36 pm
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 71 Sample Multiplier: 1

Quant Time: Mar 31 09:28:40 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108905
Sample Volume :	5	Lab File ID :	A62638.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108905
Sample Volume :	5	Lab File ID :	A62638.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108905
Sample Volume :	5	Lab File ID :	A62638.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62638.D
Acq On : 27 Mar 2009 11:46 am
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 31 10:37:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	402942	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	372311	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	358557	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	113572	51.02	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.04%			
53) Toluene-d8	6.148	98	388155	46.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 93.94%			
75) 4-Bromofluorobenzene	8.881	95	170066	47.79	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.58%			
91) 1,2-Dichlorobenzene-d4	10.085	152	215739	55.58	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 111.16%			

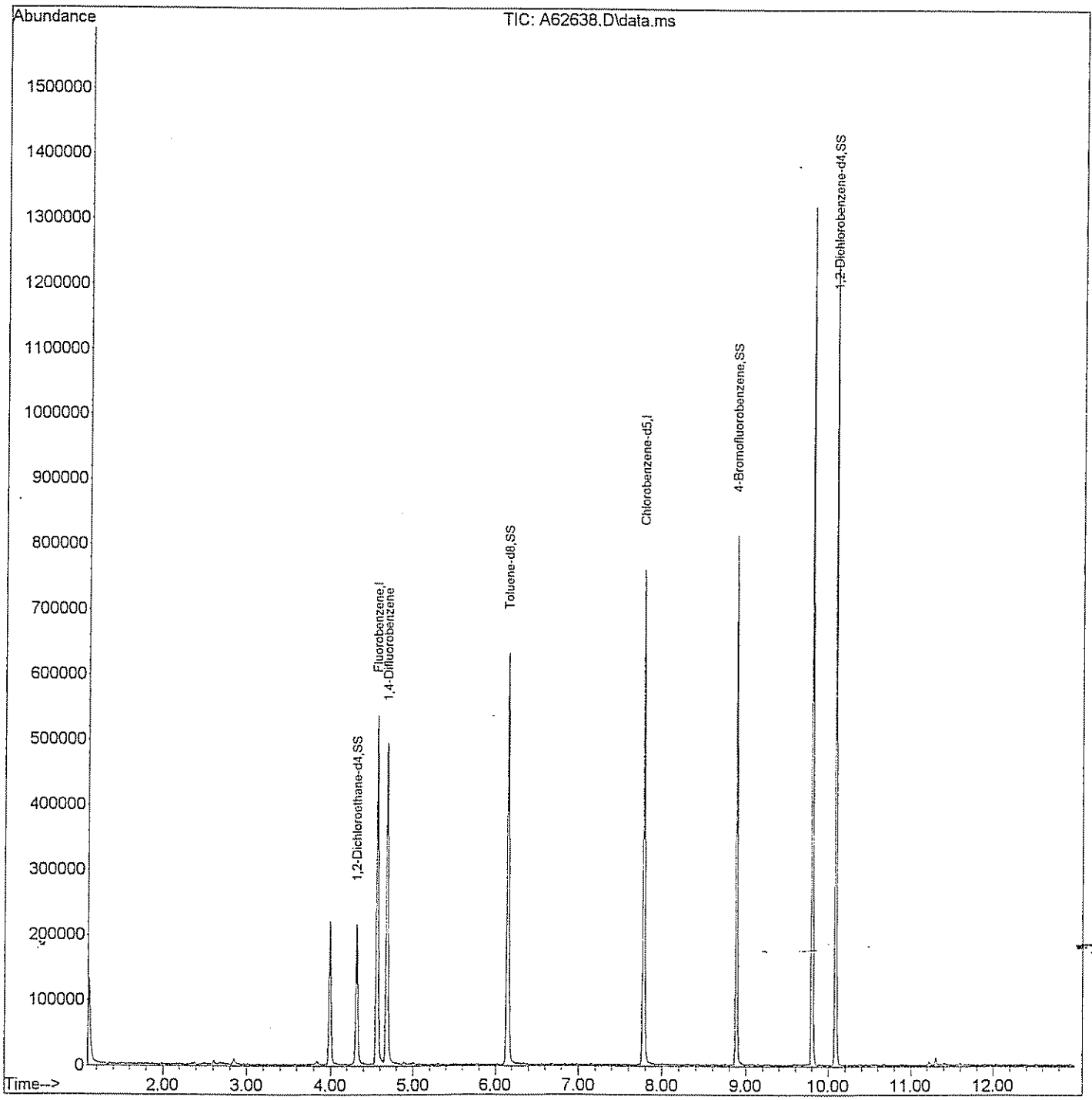
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62638.D
Acq On : 27 Mar 2009 11:46 am
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 31 10:37:56 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MS
Sample Volume :	.5	Lab File ID :	A62648.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	490	
71-55-6	1,1,1-Trichloroethane	670	
79-34-5	1,1,2,2-Tetrachloroethane	460	
79-00-5	1,1,2-Trichloroethane	480	
75-34-3	1,1-Dichloroethane	600	
75-35-4	1,1-Dichloroethene	610	
563-58-6	1,1-Dichloropropene	540	
87-61-6	1,2,3-Trichlorobenzene	530	
96-18-4	1,2,3-Trichloropropane	490	
120-82-1	1,2,4-Trichlorobenzene	550	
95-63-6	1,2,4-Trimethylbenzene	560	
96-12-8	1,2-Dibromo-3-Chloropropane	440	
95-50-1	1,2-Dichlorobenzene	580	
107-06-2	1,2-Dichloroethane	500	
78-87-5	1,2-Dichloropropane	440	
108-67-8	1,3,5-trimethylbenzene	560	
541-73-1	1,3-Dichlorobenzene	580	
142-28-9	1,3-Dichloropropane	460	
106-46-7	1,4-Dichlorobenzene	570	
594-20-7	2,2-Dichloropropane	580	
78-93-3	2-Butanone	970	
95-49-8	2-Chlorotoluene	600	
591-78-6	2-Hexanone	770	
106-43-4	4-Chlorotoluene	580	
99-87-6	4-Isopropyltoluene	620	
108-10-1	4-Methyl-2-Pentanone	770	
67-64-1	Acetone	1200	
71-43-2	Benzene	470	
108-86-1	Bromobenzene	560	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MS
Sample Volume :	.5	Lab File ID :	A62648.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	600	
75-27-4	Bromodichloromethane	480	
75-25-2	Bromoform	460	
74-83-9	Bromomethane	780	
75-15-0	Carbon Disulfide	510	
56-23-5	Carbon Tetrachloride	660	
108-90-7	Chlorobenzene	530	
75-00-3	Chloroethane	540	
67-66-3	Chloroform	580	
74-87-3	Chloromethane	590	
110-82-7	Cyclohexane	610	
124-48-1	Dibromochloromethane	510	
74-95-3	Dibromomethane	500	
75-71-8	Dichlorodifluoromethane	460	
100-41-4	Ethylbenzene	530	
106-93-4	Ethylene DiBromide	480	
76-13-1	Freon 113	780	
87-68-3	Hexachlorobutadiene	550	
98-82-8	Isopropylbenzene	570	
79-20-9	Methyl Acetate	630	
108-87-2	Methylcyclohexane	630	
75-09-2	Methylene Chloride	550	
91-20-3	Naphthalene	520	
135-98-8	Sec-Butylbenzene	590	
100-42-5	Styrene	530	
127-18-4	Tetrachloroethylene	610	
108-88-3	Toluene	570	
79-01-6	Trichloroethene	500	
75-69-4	Trichlorofluoromethane	840	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MS
Sample Volume :	.5	Lab File ID :	A62648.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	320	
75-01-4	Vinyl Chloride	480	
156-59-2	cis-1,2-Dichloroethene	550	
10061-01-5	cis-1,3-Dichloropropene	400	
136777-61-2	m,p-Xylene	1100	
104-51-8	n-Butylbenzene	570	
103-65-1	n-Propylbenzene	570	
95-47-6	o-Xylene	550	
98-06-6	tert-Butylbenzene	600	
1634-04-4	tert-butyl methyl ether	560	
156-60-5	trans-1,2-dichloroethene	620	
10061-02-6	trans-1,3-dichloropropene	460	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62648.D
Acq On : 27 Mar 2009 3:33 pm
Operator : SM
Sample : 903098-002MS
Misc : OUI-16GW110309,CH2M HILL,WATER
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Mar 31 11:00:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	522437	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	473085	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	489139	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	148191	51.34	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.68%			
53) Toluene-d8	6.148	98	516223	49.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 98.32%			
75) 4-Bromofluorobenzene	8.881	95	250219	51.55	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 103.10%			
91) 1,2-Dichlorobenzene-d4	10.085	152	306247	57.83	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.210	85	54102	45.77	ug/L	95
3) Chloromethane	1.354	50	87359	59.00	ug/L	95
4) Vinyl chloride	1.418	62	106302	47.51	ug/L	96
5) Bromomethane	1.654	94	52076	77.64	ug/L	99
6) Chloroethane	1.723	64	79431	53.57	ug/L	97
7) Trichlorofluoromethane	1.868	101	209445	83.71	ug/L	99
8) Ethyl Ether	2.066	59	96169	49.58	ug/L	99
9) Freon 113	2.205	101	138754	78.28	ug/L	100
10) Acrolein	2.216	56	82435	257.21	ug/L #	74
11) Tert-Butyl alcohol	2.686	59	147510	1312.30	ug/L #	47
12) 1,1-Dichloroethene	2.232	96	117590	61.20	ug/L	85
13) Iodomethane	2.355	142	166180	96.80	ug/L	100
14) Acetonitrile	2.504	40	977594	778.07	ug/L #	1
15) Methylene chloride	2.611	84	128495	54.80	ug/L	96
16) Trans-1,2-dichloroethene	2.772	96	128645	61.57	ug/L	79
17) Isopropyl ether	3.109	45	438688	52.19	ug/L	96
18) 1,1-Dichloroethane	3.125	63	222372	59.77	ug/L	99
19) Acetone	2.317	43	63927	115.05	ug/L	90
20) Methyl Acetate	4.265	43	75877	63.17	ug/L #	100
21) MTBE	2.756	73	338596	56.00	ug/L	100
22) Carbon disulfide	2.376	76	299801	51.30	ug/L	100
24) Acrylonitrile	2.852	53	158614	274.54	ug/L	100
25) Chloroprene	3.163	53	196135	55.12	ug/L	88
26) n-Heptane	4.569	71	4237	2.33	ug/L #	1
27) 2,2-Dichloropropane	3.564	77	176158	57.97	ug/L #	68
28) Cis-1,2-dichloroethene	3.590	96	137821	55.46	ug/L	100

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62648.D
Acq On : 27 Mar 2009 3:33 pm
Operator : SM
Sample : 903098-002MS
Misc : OUI-16GW110309,CH2M HILL,WATER
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Mar 31 11:00:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	2.772	96	273138m	120.38 ug/L	
30) Propionitrile	3.746	54	139877	423.01 ug/L	100
31) Bromochloromethane	3.799	128	71808	59.51 ug/L	80
32) Tetrahydrofuran	3.623	72	25881	41.68 ug/L #	1
33) Chloroform	3.847	83	242586	57.56 ug/L	97
34) Cyclohexane	3.949	56	228100	60.94 ug/L	89
35) 1,1,1-Trichloroethane	3.970	97	214364	66.75 ug/L	99
36) Carbon tetrachloride	4.077	117	197036	66.45 ug/L	95
37) Methylcyclohexane	5.003	83	226341	63.39 ug/L	88
38) Isobutyl Alcohol	4.265	43	75877	456.76 ug/L	95
41) 2-Butanone	3.628	43	125965	97.33 ug/L	93
42) 1,1-Dichloropropene	4.109	75	166723	54.08 ug/L	94
43) Vinyl Acetate	3.152	43	109353	32.39 ug/L #	90
44) Benzene	4.291	78	478850	46.96 ug/L	100
45) 1,2-Dichloroethane	4.388	62	160054	49.68 ug/L	90
46) Trichloroethene	4.896	95	129558	49.55 ug/L	83
47) 1,2-Dichloropropane	5.169	63	116322	43.86 ug/L	96
48) Methyl methacrylate	5.270	69	74062	42.61 ug/L	91
49) Dibromomethane	5.286	93	80193	49.78 ug/L	99
50) Bromodichloromethane	5.436	83	165185	48.42 ug/L #	99
51) 2-Chloroethylvinyl ether	6.217	63	50546	28.41 ug/L #	49
52) Cis-1,3-dichloropropene	5.918	75	176056	40.01 ug/L	94
54) Toluene	6.223	92	317675	57.04 ug/L	99
55) Trans-1,3-dichloropropene	6.576	75	162537	46.12 ug/L	98
56) Ethyl methacrylate	6.624	69	152595	46.25 ug/L	95
57) 1,1,2-Trichloroethane	6.779	83	95460	48.49 ug/L	88
59) 4-Methyl-2-pentanone	6.099	43	262569	76.77 ug/L	92
60) 2-Hexanone	7.068	43	181489	77.40 ug/L	97
61) Tetrachloroethene	6.795	166	158159	61.19 ug/L	100
62) 1,3-Dichloropropane	6.977	76	180439	45.52 ug/L	93
63) Dibromochloromethane	7.185	129	138968	51.06 ug/L	95
64) 1,2-Dibromoethane	7.319	107	118236	48.06 ug/L	99
65) 1-Chlorohexane	7.785	91	203316	50.06 ug/L	96
66) Chlorobenzene	7.811	112	427637	53.23 ug/L	87
67) 1,1,1,2-Tetrachloroethane	7.908	131	162219	48.80 ug/L	97
68) Ethylbenzene	7.902	91	724736	52.82 ug/L	99
69) m,p-Xylene	8.020	106	627132	110.68 ug/L	84
70) o-Xylene	8.395	106	306040	54.79 ug/L	88
71) Xylene (Total)	8.020	106	933859m	166.68 ug/L	
72) Styrene	8.421	104	500201	53.29 ug/L	96
73) Bromoform	8.598	173	100878	46.33 ug/L	100
74) Isopropylbenzene	8.715	105	712184	57.40 ug/L	98

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62648.D
Acq On : 27 Mar 2009 3:33 pm
Operator : SM
Sample : 903098-002MS
Misc : OUI-16GW110309,CH2M HILL,WATER
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Mar 31 11:00:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

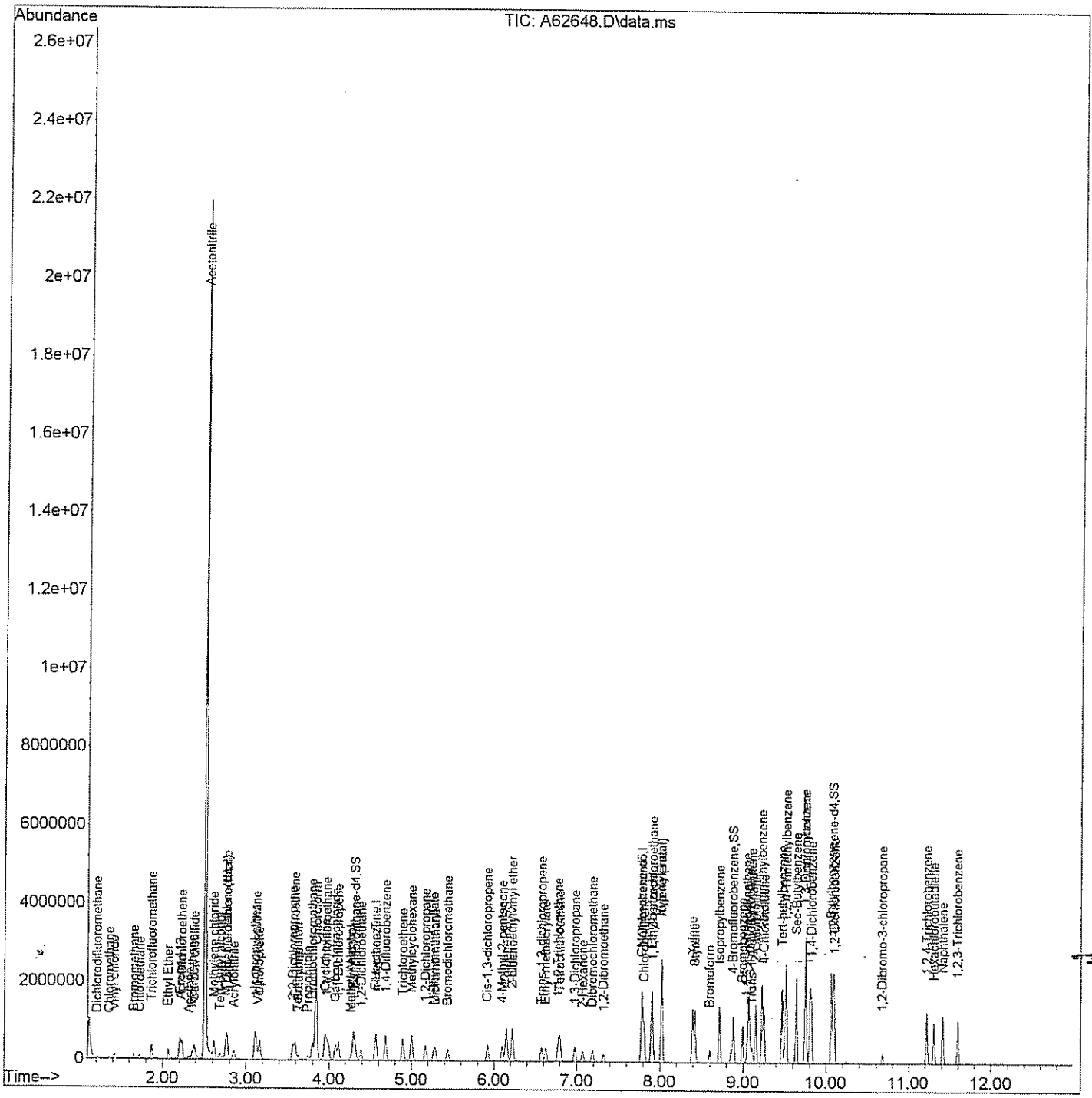
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	199522	56.28 ug/L	98
77) 1,1,2,2-Tetrachloroethane	9.047	83	175374	46.27 ug/L	94
78) 1,2,3-Trichloropropane	9.085	110	55114	48.72 ug/L	100
79) n-Propylbenzene	9.069	91	956271	56.90 ug/L	97
80) Trans-1,4-dichloro-2-b...	9.106	53	53719	49.88 ug/L #	26
81) 2-Chlorotoluene	9.149	126	215083	59.68 ug/L	87
82) 4-Chlorotoluene	9.250	126	221973	57.92 ug/L	84
83) 1,3,5-Trimethylbenzene	9.224	105	731594	56.20 ug/L	93
84) Tert-butylbenzene	9.470	119	702325	60.41 ug/L	97
86) 1,2,4-Trimethylbenzene	9.518	105	771040	55.68 ug/L	92
87) Sec-Butylbenzene	9.641	105	1058081	58.77 ug/L	100
88) 1,3-Dichlorobenzene	9.748	146	456841	58.01 ug/L	100
89) 4-Isopropyltoluene	9.753	119	964321	62.42 ug/L	97
90) 1,4-Dichlorobenzene	9.823	146	448115	56.99 ug/L	100
92) 1,2-Dichlorobenzene	10.101	146	438553	57.96 ug/L	100
93) n-Butylbenzene	10.058	91	835432	57.08 ug/L	94
94) 1,2-Dibromo-3-chloropr...	10.679	75	32782	43.80 ug/L #	68
95) 1,2,4-Trichlorobenzene	11.225	180	286730	55.40 ug/L	96
96) Hexachlorobutadiene	11.305	225	126532	55.00 ug/L	97
97) Naphthalene	11.412	128	732104	51.72 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	245210	53.01 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62648.D
Acq On : 27 Mar 2009 3:33 pm
Operator : SM
Sample : 903098-002MS
Misc : OUI-16GW110309,CH2M HILL,WATER
ALS Vial : 60 Sample Multiplier: 1

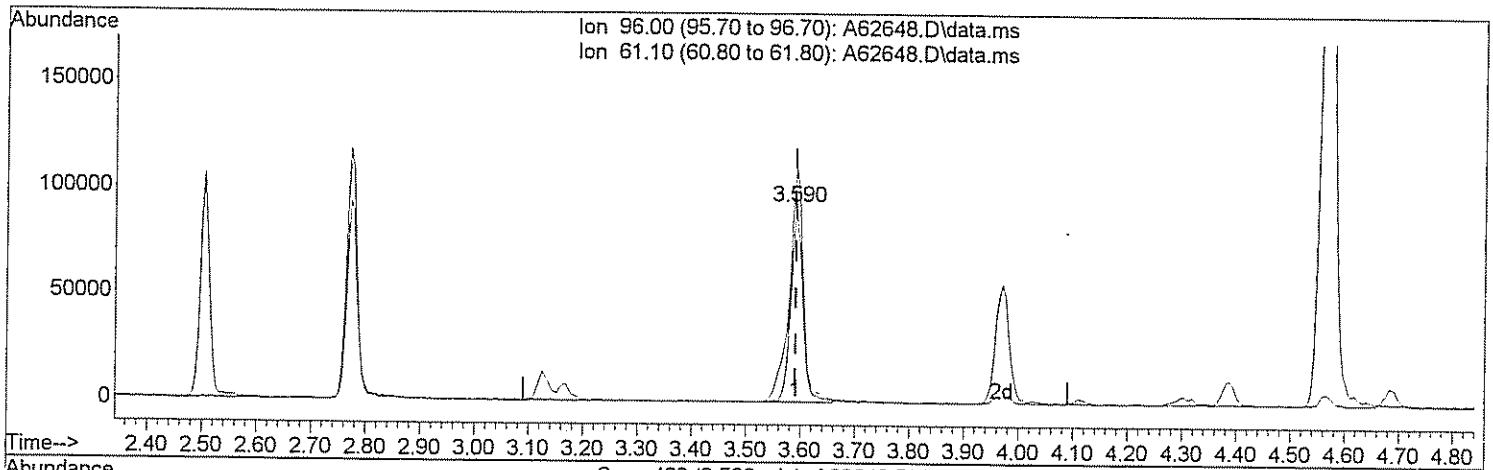
Quant Time: Mar 31 11:00:36 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

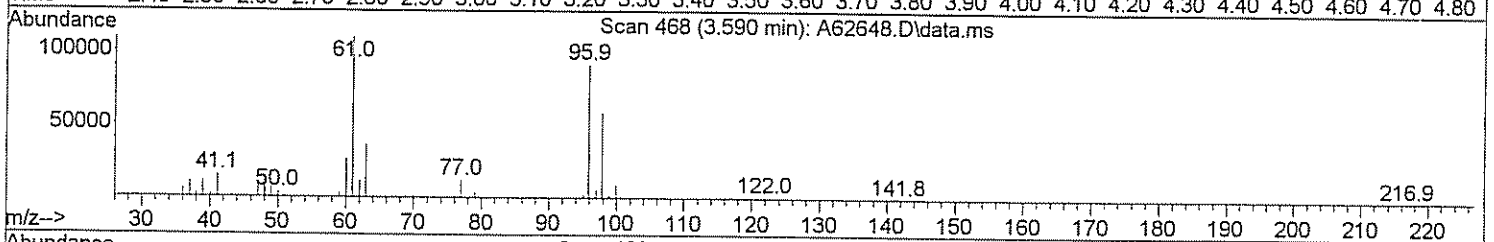


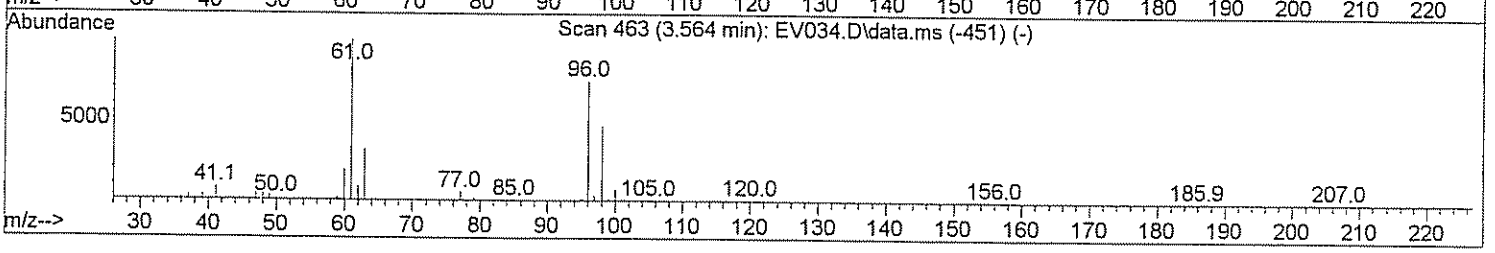
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62648.D
Acq On : 27 Mar 2009 3:33 pm
Operator : SM
Sample : 903098-002MS
Misc : OUI-16GW110309,CH2M HILL,WATER
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Mar 30 08:43:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration







TIC: A62648.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 60.74 ug/L

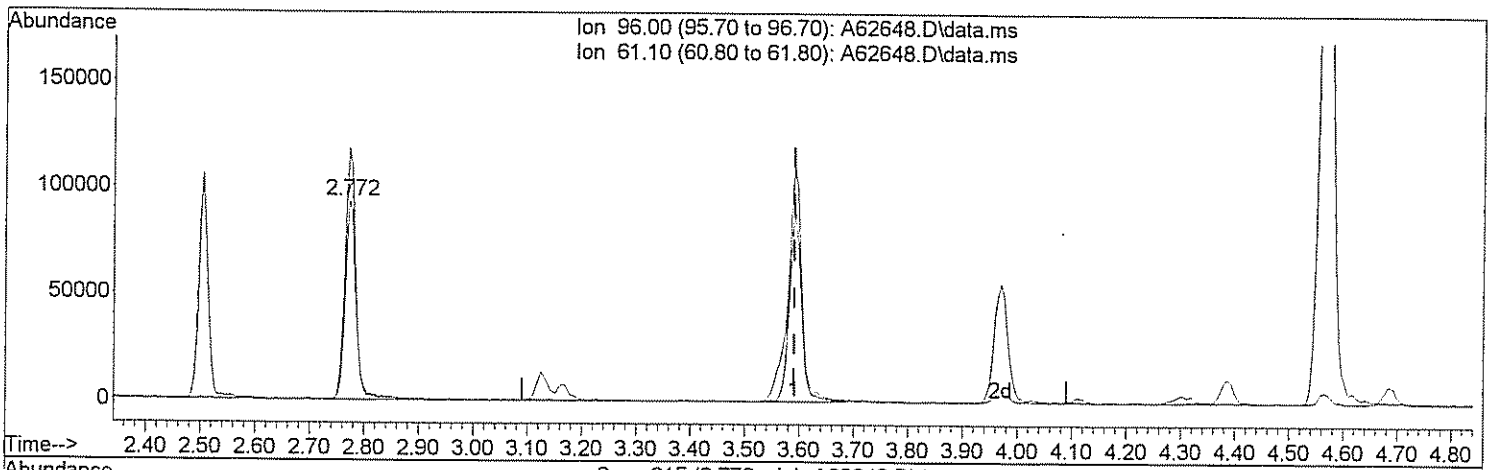
response 137821

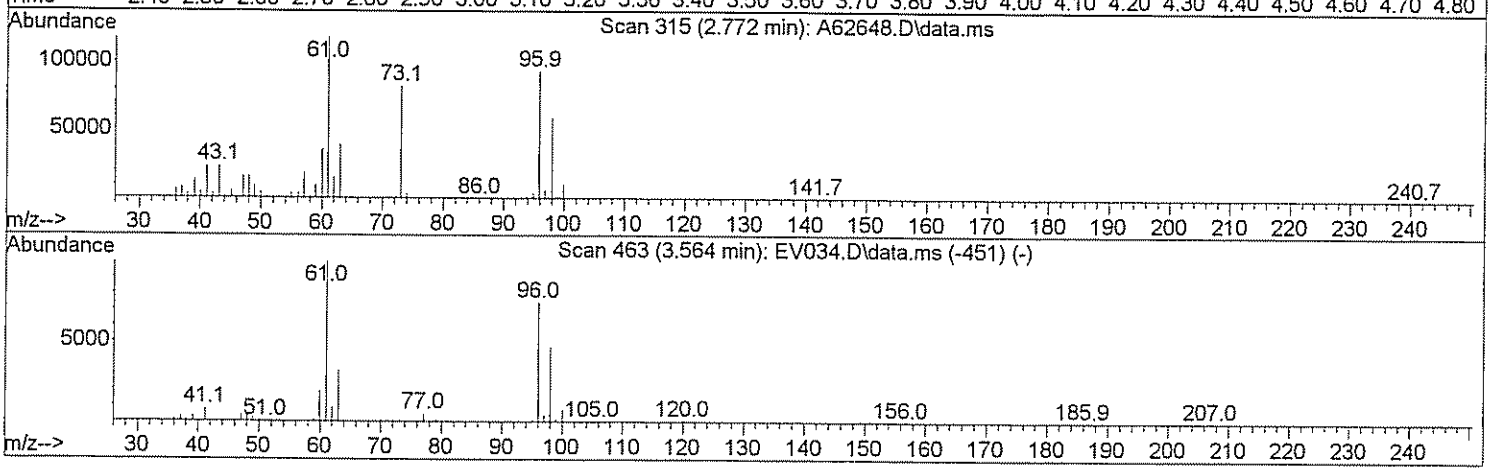
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	143.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62648.D
Acq On : 27 Mar 2009 3:33 pm
Operator : SM
Sample : 903098-002MS
Misc : OUI-16GW110309,CH2M HILL,WATER
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Mar 30 08:43:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration





TIC: A62648.D\data.ms

(29) 1,2-dichloroethene(total)

2.772min (-0.819) 120.38 ug/L m SW 3/31/09

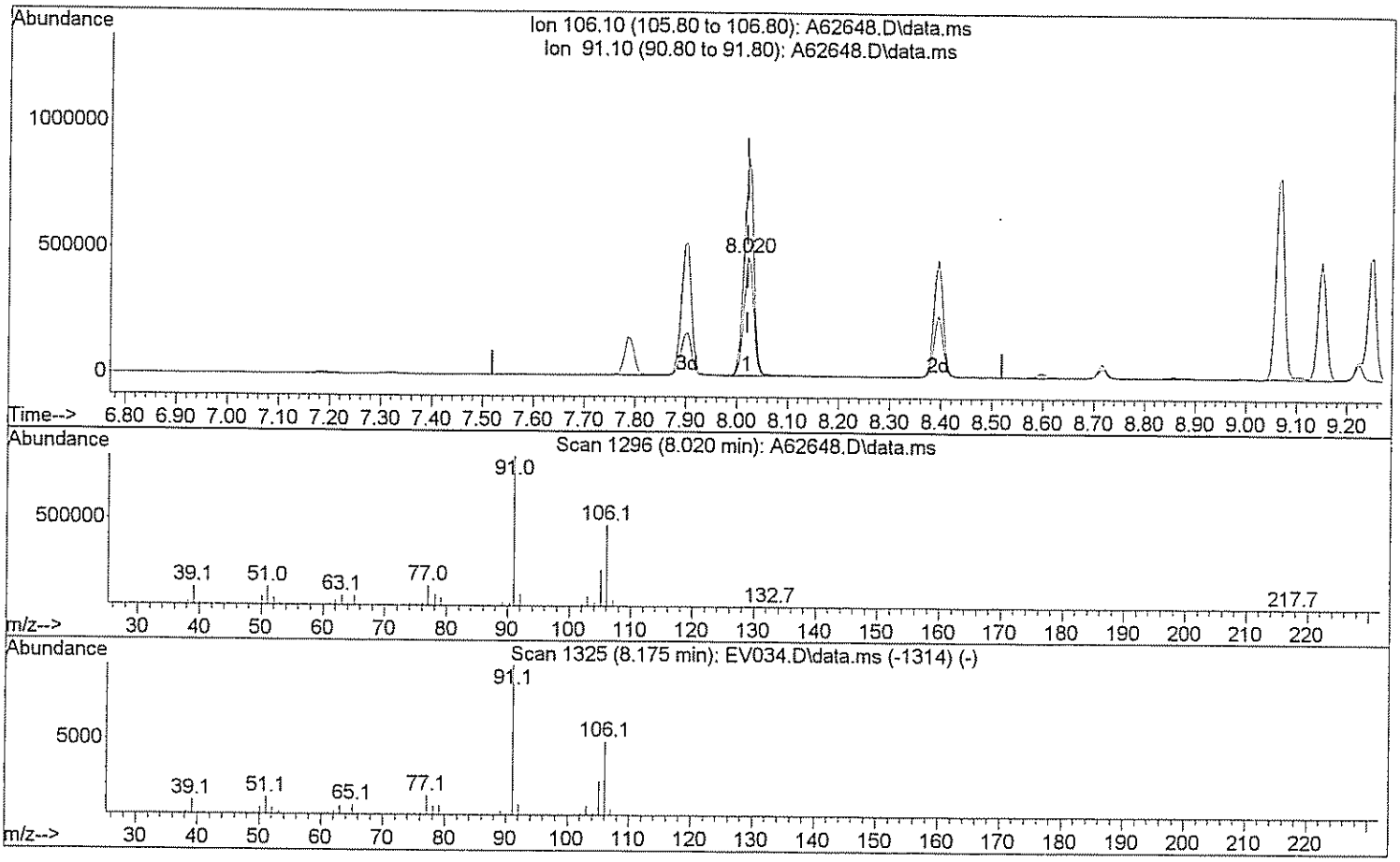
response 273138

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	72.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62648.D
Acq On : 27 Mar 2009 3:33 pm
Operator : SM
Sample : 903098-002MS
Misc : OUI-16GW110309,CH2M HILL,WATER
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Mar 30 08:43:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62648.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 111.94 ug/L

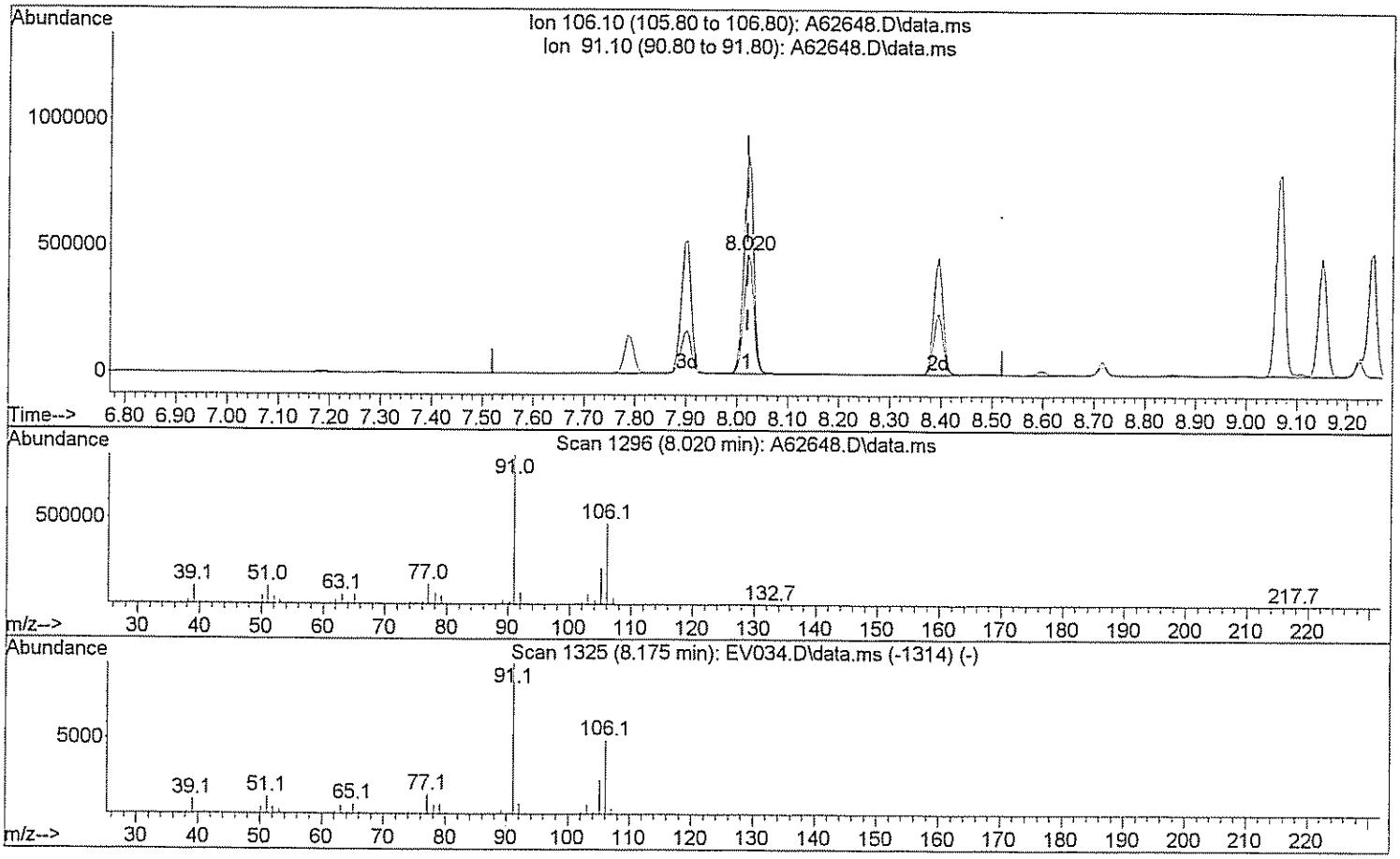
response 627132

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	183.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62648.D
Acq On : 27 Mar 2009 3:33 pm
Operator : SM
Sample : 903098-002MS
Misc : OUI-16GW110309,CH2M HILL,WATER
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Mar 30 08:43:04 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62648.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 166.68 ug/L m DW 3/31/09

response 933859

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	123.15#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MSD
Sample Volume :	.5	Lab File ID :	A62650.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	500	
71-55-6	1,1,1-Trichloroethane	680	
79-34-5	1,1,2,2-Tetrachloroethane	520	
79-00-5	1,1,2-Trichloroethane	500	
75-34-3	1,1-Dichloroethane	610	
75-35-4	1,1-Dichloroethene	630	
563-58-6	1,1-Dichloropropene	560	
87-61-6	1,2,3-Trichlorobenzene	600	
96-18-4	1,2,3-Trichloropropane	540	
120-82-1	1,2,4-Trichlorobenzene	600	
95-63-6	1,2,4-Trimethylbenzene	580	
96-12-8	1,2-Dibromo-3-Chloropropane	500	
95-50-1	1,2-Dichlorobenzene	610	
107-06-2	1,2-Dichloroethane	540	
78-87-5	1,2-Dichloropropane	460	
108-67-8	1,3,5-trimethylbenzene	590	
541-73-1	1,3-Dichlorobenzene	610	
142-28-9	1,3-Dichloropropane	470	
106-46-7	1,4-Dichlorobenzene	610	
594-20-7	2,2-Dichloropropane	590	
78-93-3	2-Butanone	1100	
95-49-8	2-Chlorotoluene	610	
591-78-6	2-Hexanone	850	
106-43-4	4-Chlorotoluene	600	
99-87-6	4-Isopropyltoluene	650	
108-10-1	4-Methyl-2-Pentanone	840	
67-64-1	Acetone	1200	
71-43-2	Benzene	490	
108-86-1	Bromobenzene	580	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MSD
Sample Volume :	.5	Lab File ID :	A62650.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	650	
75-27-4	Bromodichloromethane	500	
75-25-2	Bromoform	490	
74-83-9	Bromomethane	820	
75-15-0	Carbon Disulfide	530	
56-23-5	Carbon Tetrachloride	660	
108-90-7	Chlorobenzene	550	
75-00-3	Chloroethane	550	
67-66-3	Chloroform	590	
74-87-3	Chloromethane	680	
110-82-7	Cyclohexane	620	
124-48-1	Dibromochloromethane	520	
74-95-3	Dibromomethane	530	
75-71-8	Dichlorodifluoromethane	430	
100-41-4	Ethylbenzene	540	
106-93-4	Ethylene DiBromide	500	
76-13-1	Freon 113	780	
87-68-3	Hexachlorobutadiene	580	
98-82-8	Isopropylbenzene	600	
79-20-9	Methyl Acetate	720	
108-87-2	Methylcyclohexane	630	
75-09-2	Methylene Chloride	560	
91-20-3	Naphthalene	570	
135-98-8	Sec-Butylbenzene	610	
100-42-5	Styrene	540	
127-18-4	Tetrachloroethylene	600	
108-88-3	Toluene	600	
79-01-6	Trichloroethene	510	
75-69-4	Trichlorofluoromethane	880	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309DLMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-040-1/9MSD
Sample Volume :	.5	Lab File ID :	A62650.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	380	
75-01-4	Vinyl Chloride	500	
156-59-2	cis-1,2-Dichloroethene	560	
10061-01-5	cis-1,3-Dichloropropene	420	
136777-61-2	m,p-Xylene	1100	
104-51-8	n-Butylbenzene	610	
103-65-1	n-Propylbenzene	590	
95-47-6	o-Xylene	560	
98-06-6	tert-Butylbenzene	610	
1634-04-4	tert-butyl methyl ether	580	
156-60-5	trans-1,2-dichloroethene	610	
10061-02-6	trans-1,3-dichloropropene	480	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62650.D
Acq On : 27 Mar 2009 4:13 pm
Operator : SM
Sample : 903098-002MSD
Misc : OUI-16GW11-0309,CH2M HILL,WATER
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Mar 31 11:06:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	505520	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	450263	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.785	117	475206	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.313	65	142754	51.11	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.22%				
53) Toluene-d8	6.148	98	498982	49.93	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 99.86%				
75) 4-Bromofluorobenzene	8.881	95	241527	51.21	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 102.42%				
91) 1,2-Dichlorobenzene-d4	10.085	152	305464	59.38	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.76%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	49105	42.93	ug/L		99
3) Chloromethane	1.354	50	98167	68.52	ug/L		98
4) Vinyl chloride	1.418	62	109642	50.34	ug/L		97
5) Bromomethane	1.654	94	53150	81.89	ug/L		88
6) Chloroethane	1.723	64	79531	55.44	ug/L		99
7) Trichlorofluoromethane	1.868	101	212797	87.90	ug/L		99
8) Ethyl Ether	2.071	59	98262	52.35	ug/L		96
9) Freon 113	2.205	101	134296	78.31	ug/L		99
10) Acrolein	2.216	56	93102	291.72	ug/L	#	74
11) Tert-Butyl alcohol	2.686	59	177521	1457.38	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	116446	62.63	ug/L		83
13) Iodomethane	2.355	142	168819	101.62	ug/L		99
14) Acetonitrile	2.504	40	938187	772.25	ug/L	#	1
15) Methylene chloride	2.611	84	128082	56.37	ug/L		92
16) Trans-1,2-dichloroethene	2.777	96	123693	61.18	ug/L		81
17) Isopropyl ether	3.109	45	428752	52.71	ug/L		95
18) 1,1-Dichloroethane	3.125	63	221124	61.43	ug/L		100
19) Acetone	2.323	43	62893	116.43	ug/L		96
20) Methyl Acetate	4.265	43	93989	71.70	ug/L	#	100
21) MTBE	2.756	73	337654	57.71	ug/L		100
22) Carbon disulfide	2.381	76	301340	53.22	ug/L		100
24) Acrylonitrile	2.852	53	175666	305.67	ug/L		99
25) Chloroprene	3.168	53	190575	55.34	ug/L		90
26) n-Heptane	4.569	71	3681	2.09	ug/L	#	1
27) 2,2-Dichloropropane	3.569	77	172464	58.65	ug/L	#	78
28) Cis-1,2-dichloroethene	3.590	96	133615	55.57	ug/L		99

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62650.D
Acq On : 27 Mar 2009 4:13 pm
Operator : SM
Sample : 903098-002MSD
Misc : OUI-16GW11-0309,CH2M HILL,WATER
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Mar 31 11:06:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	263329m	119.95 ug/L	
30) Propionitrile	3.751	54	156645	489.57 ug/L	98
31) Bromochloromethane	3.799	128	76022	65.11 ug/L #	69
32) Tetrahydrofuran	3.623	72	26743	44.51 ug/L #	1
33) Chloroform	3.853	83	241913	59.32 ug/L	98
34) Cyclohexane	3.949	56	225751	62.32 ug/L #	87
35) 1,1,1-Trichloroethane	3.970	97	211234	67.97 ug/L	97
36) Carbon tetrachloride	4.077	117	188733	65.78 ug/L	100
37) Methylcyclohexane	5.003	83	217644	63.00 ug/L	89
38) Isobutyl Alcohol	4.265	43	93989	584.72 ug/L	93
41) 2-Butanone	3.623	43	134449	107.18 ug/L	95
42) 1,1-Dichloropropene	4.115	75	164630	56.11 ug/L	97
43) Vinyl Acetate	3.152	43	120506	37.50 ug/L	97
44) Benzene	4.297	78	477535	49.20 ug/L	100
45) 1,2-Dichloroethane	4.388	62	164953	53.80 ug/L	90
46) Trichloroethene	4.896	95	127176	51.10 ug/L #	80
47) 1,2-Dichloropropane	5.169	63	117012	46.36 ug/L	100
48) Methyl methacrylate	5.270	69	80364	48.24 ug/L	97
49) Dibromomethane	5.286	93	80832	52.72 ug/L	98
50) Bromodichloromethane	5.436	83	163243	50.28 ug/L #	98
51) 2-Chloroethylvinyl ether	5.918	63	1760	1.04 ug/L #	49
52) Cis-1,3-dichloropropene	5.918	75	177585	42.24 ug/L	96
54) Toluene	6.223	92	320552	60.47 ug/L	98
55) Trans-1,3-dichloropropene	6.576	75	161400	48.12 ug/L	96
56) Ethyl methacrylate	6.624	69	145660	46.38 ug/L	93
57) 1,1,2-Trichloroethane	6.779	83	92821	49.54 ug/L	86
59) 4-Methyl-2-pentanone	6.099	43	280740	84.49 ug/L	95
60) 2-Hexanone	7.062	43	193845	85.10 ug/L	97
61) Tetrachloroethene	6.800	166	152017	60.54 ug/L	98
62) 1,3-Dichloropropane	6.977	76	180064	46.76 ug/L	93
63) Dibromochloromethane	7.185	129	138554	52.40 ug/L	98
64) 1,2-Dibromoethane	7.319	107	118408	49.54 ug/L	97
65) 1-Chlorohexane	7.790	91	199428	50.54 ug/L	97
66) Chlorobenzene	7.811	112	426356	54.63 ug/L	88
67) 1,1,1,2-Tetrachloroethane	7.908	131	163238	50.43 ug/L	98
68) Ethylbenzene	7.902	91	715017	53.64 ug/L	98
69) m,p-Xylene	8.020	106	618364	112.33 ug/L	87
70) o-Xylene	8.394	106	302244	55.70 ug/L	87
71) Xylene (Total)	8.020	106	922393m	169.47 ug/L	
72) Styrene	8.421	104	496922	54.50 ug/L	97
73) Bromoform	8.598	173	103463	48.67 ug/L	100
74) Isopropylbenzene	8.715	105	718911	59.64 ug/L	99

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62650.D
Acq On : 27 Mar 2009 4:13 pm
Operator : SM
Sample : 903098-002MSD
Misc : OUI-16GW11-0309,CH2M HILL,WATER
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Mar 31 11:06:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

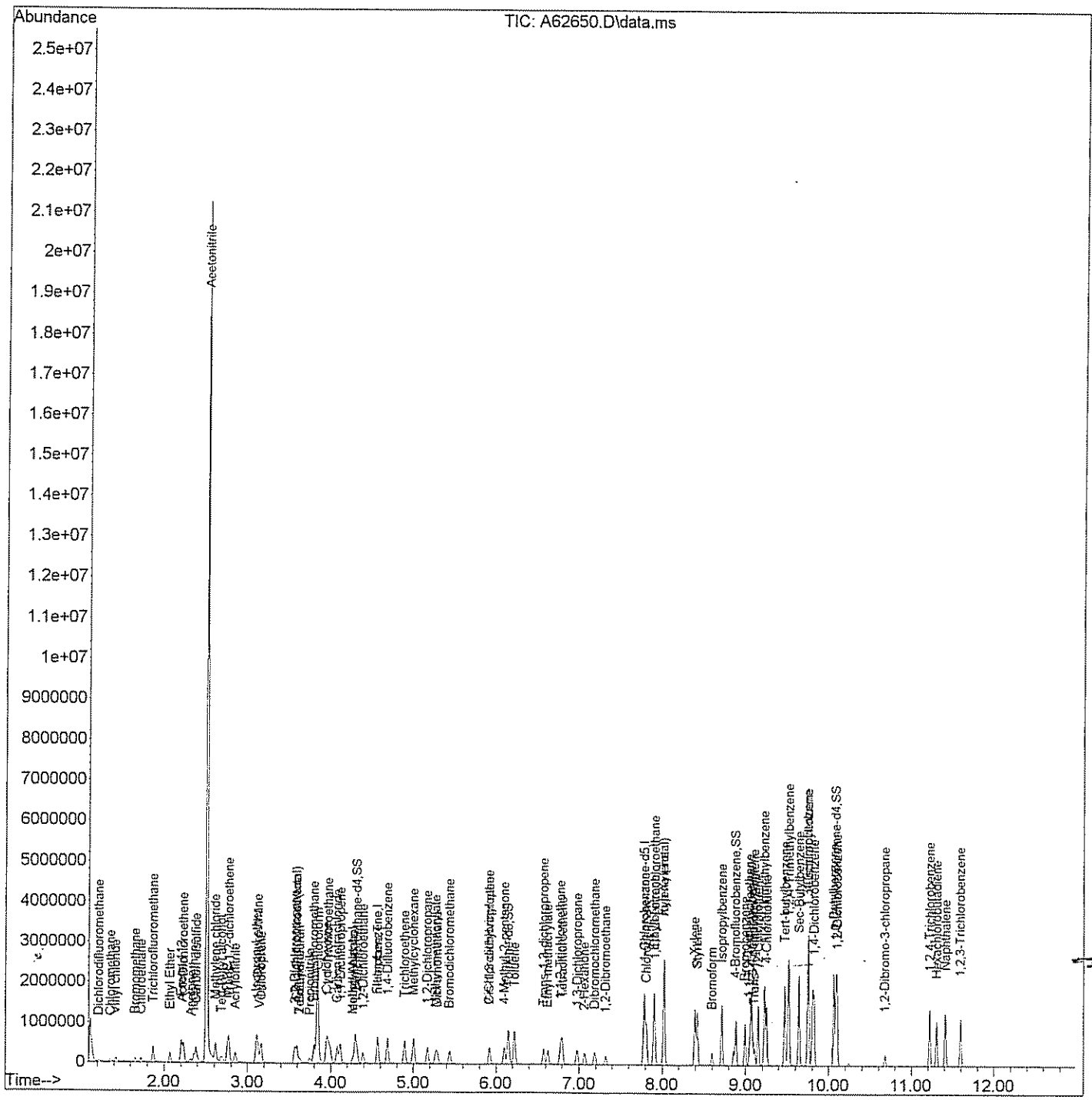
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	201081	58.38 ug/L	100
77) 1,1,2,2-Tetrachloroethane	9.047	83	190007	51.60 ug/L	98
78) 1,2,3-Trichloropropane	9.085	110	58974	53.66 ug/L	97
79) n-Propylbenzene	9.069	91	959468	58.76 ug/L	96
80) Trans-1,4-dichloro-2-b...	9.106	53	58954	56.34 ug/L #	10
81) 2-Chlorotoluene	9.149	126	213975	61.11 ug/L	89
82) 4-Chlorotoluene	9.250	126	224799	60.37 ug/L	82
83) 1,3,5-Trimethylbenzene	9.224	105	742200	58.69 ug/L	94
84) Tert-butylbenzene	9.470	119	691365	61.21 ug/L	95
86) 1,2,4-Trimethylbenzene	9.518	105	780383	58.01 ug/L	94
87) Sec-Butylbenzene	9.641	105	1074517	61.43 ug/L	97
88) 1,3-Dichlorobenzene	9.748	146	464327	60.68 ug/L	99
89) 4-Isopropyltoluene	9.753	119	980365	65.32 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	466446	61.07 ug/L	98
92) 1,2-Dichlorobenzene	10.101	146	448347	60.99 ug/L	98
93) n-Butylbenzene	10.058	91	865793	60.89 ug/L	95
94) 1,2-Dibromo-3-chloropr...	10.679	75	36217	49.80 ug/L #	70
95) 1,2,4-Trichlorobenzene	11.224	180	302493	60.16 ug/L	95
96) Hexachlorobutadiene	11.305	225	130680	58.47 ug/L	97
97) Naphthalene	11.412	128	779135	56.66 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	270552	60.20 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62650.D
Acq On : 27 Mar 2009 4:13 pm
Operator : SM
Sample : 903098-002MSD
Misc : OUI-16GW11-0309,CH2M HILL,WATER
ALS Vial : 61 Sample Multiplier: 1

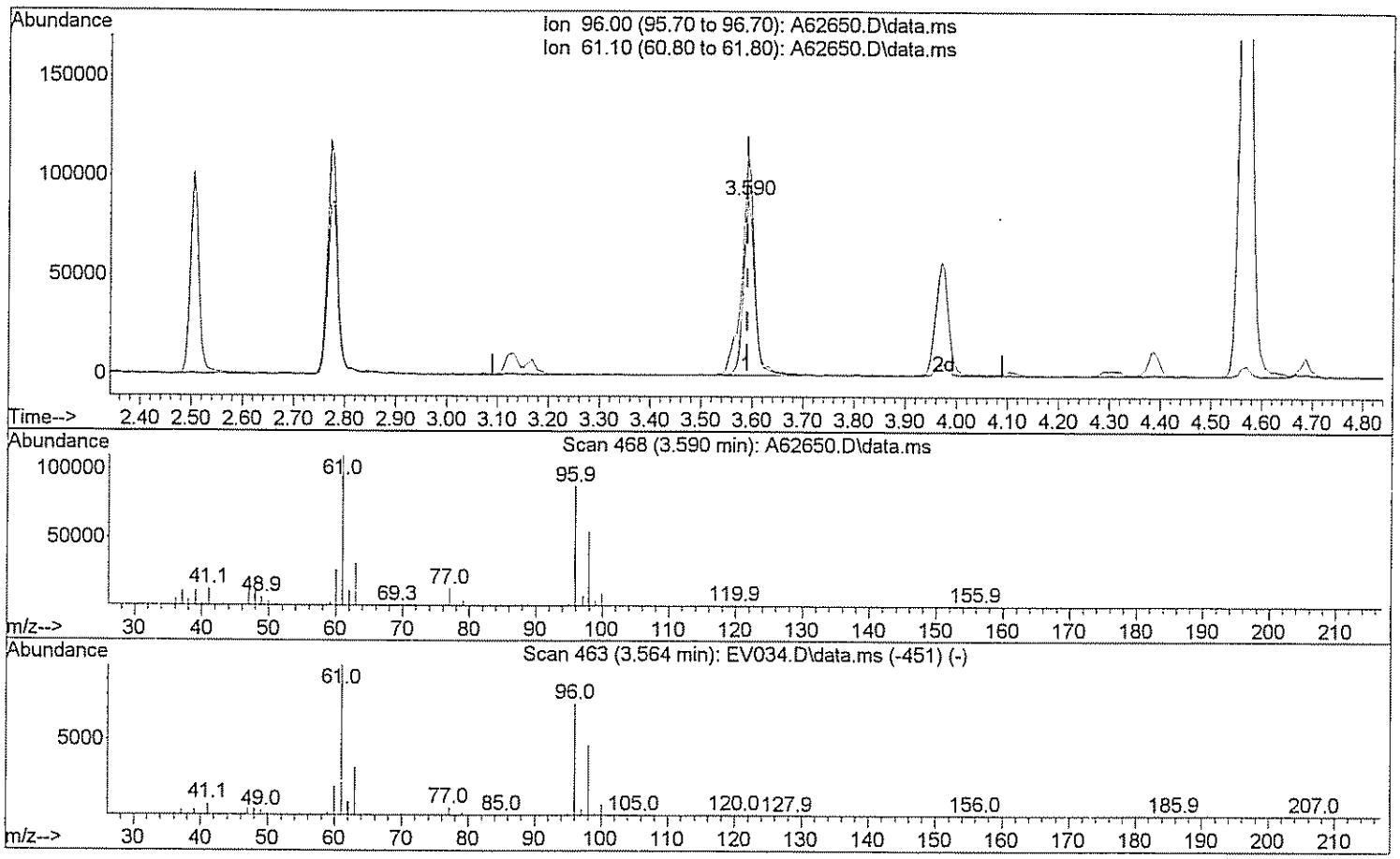
Quant Time: Mar 31 11:06:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62650.D
Acq On : 27 Mar 2009 4:13 pm
Operator : SM
Sample : 903098-002MSD
Misc : OUI-16GW11-0309,CH2M HILL,WATER
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Mar 30 08:43:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62650.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 60.86 ug/L

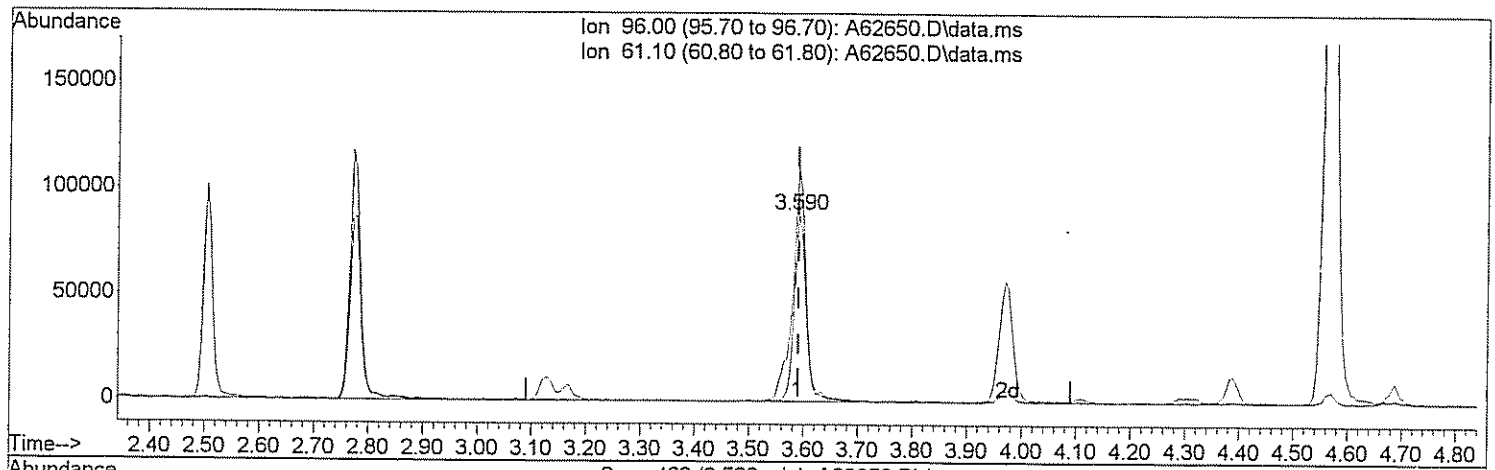
response 133615

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	143.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62650.D
Acq On : 27 Mar 2009 4:13 pm
Operator : SM
Sample : 903098-002MSD
Misc : OUI-16GW11-0309,CH2M HILL,WATER
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Mar 30 08:43:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62650.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 119.95 ug/L m Sm 3/31/09

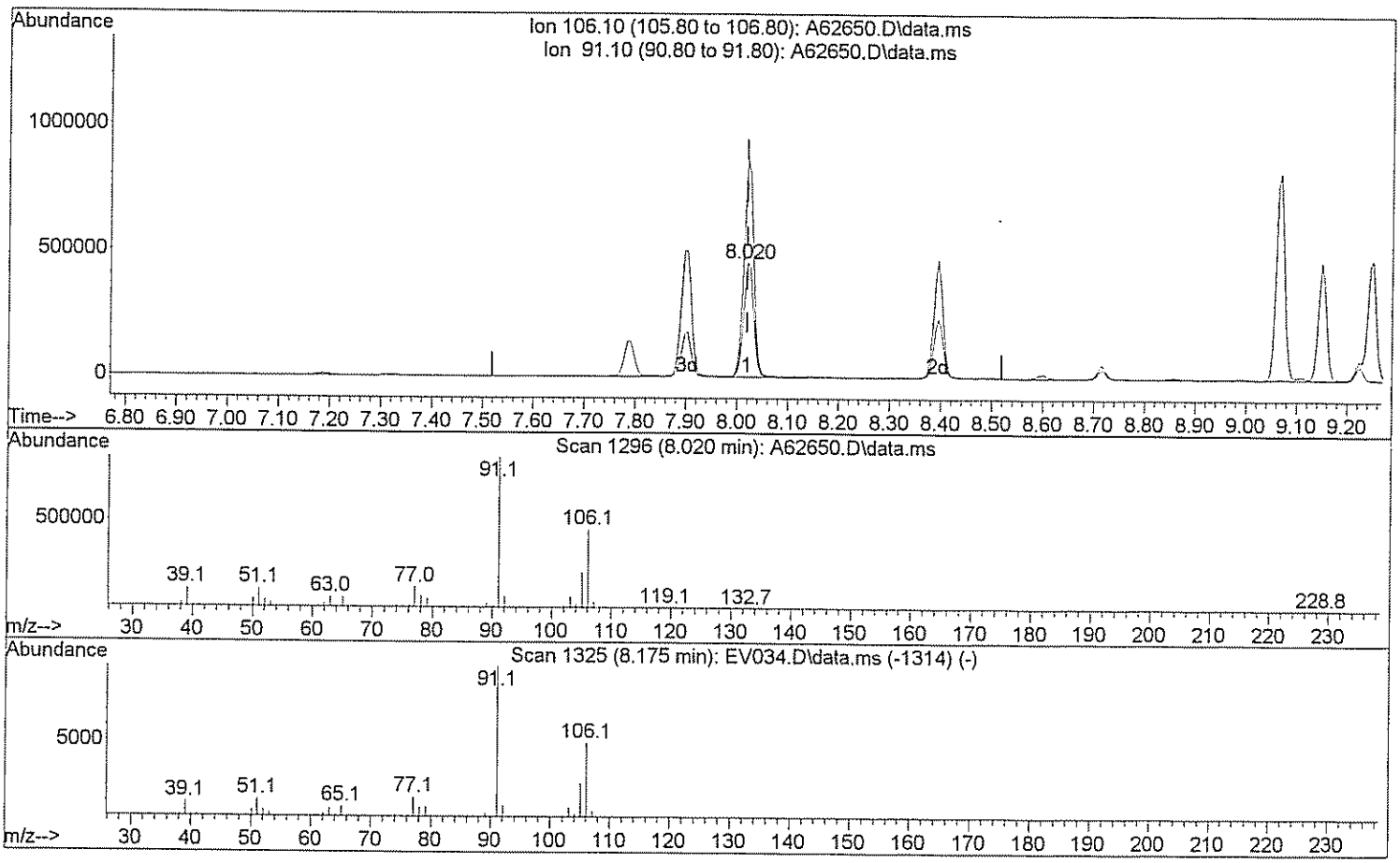
response 263329

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	72.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62650.D
Acq On : 27 Mar 2009 4:13 pm
Operator : SM
Sample : 903098-002MSD
Misc : OUI-16GW11-0309,CH2M HILL,WATER
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Mar 30 08:43:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62650.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 113.61 ug/L

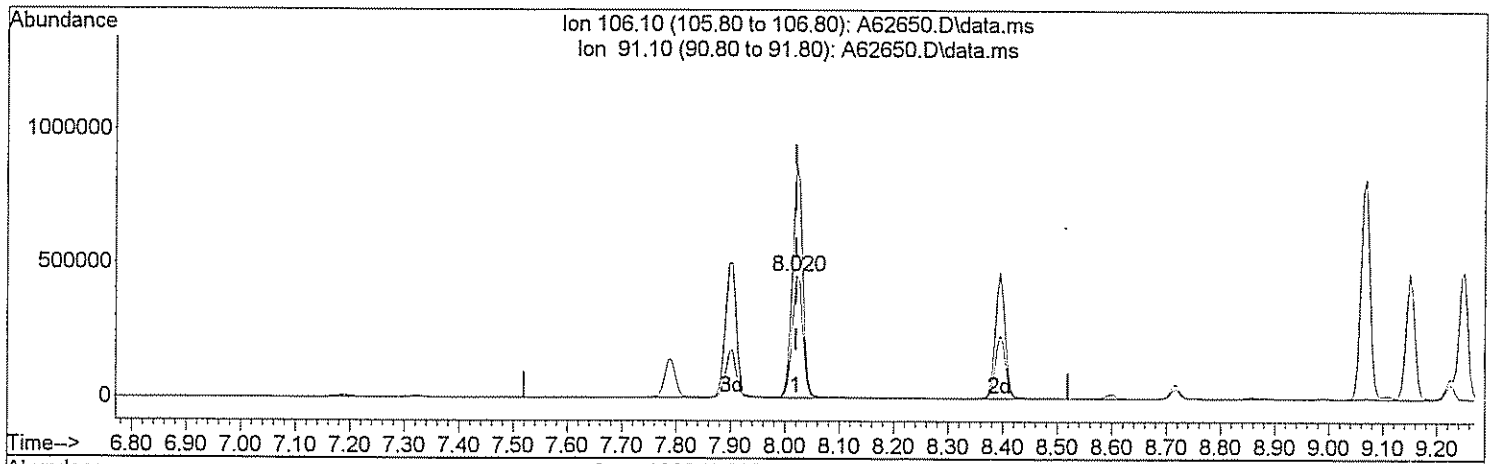
response 618364

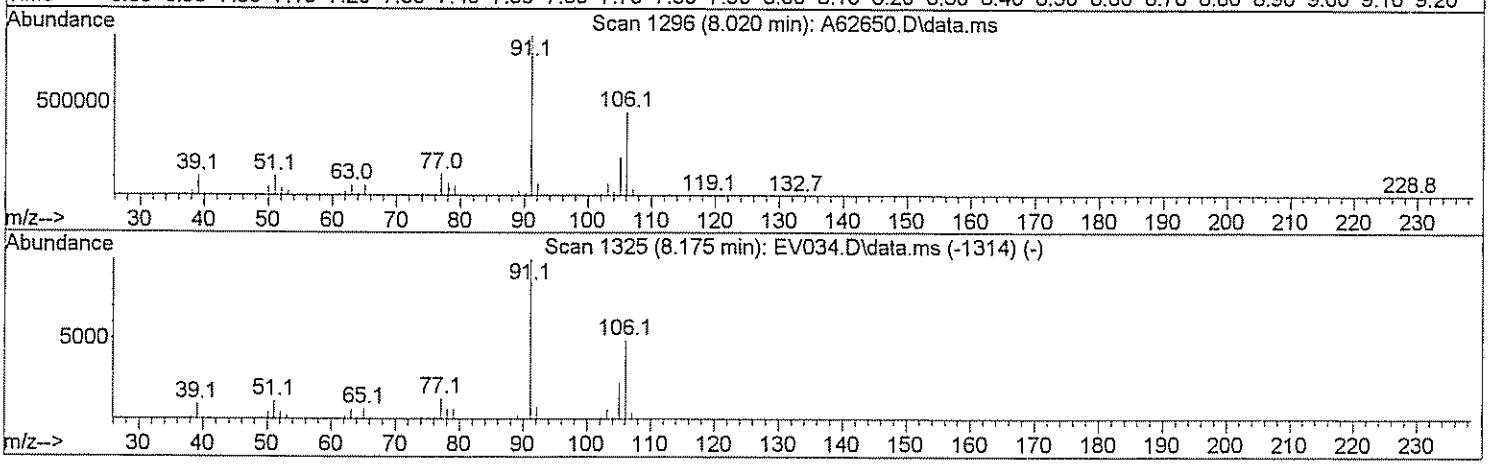
Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62650.D
Acq On : 27 Mar 2009 4:13 pm
Operator : SM
Sample : 903098-002MSD
Misc : OUI-16GW11-0309,CH2M HILL,WATER
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Mar 30 08:43:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration





TIC: A62650.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 169.47 ug/L m Amw 3/31/09

response 922393

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.38#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MS
Sample Volume :	5	Lab File ID :	A62652.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	43	
71-55-6	1,1,1-Trichloroethane	15	
79-34-5	1,1,2,2-Tetrachloroethane	40	
79-00-5	1,1,2-Trichloroethane	9.0	
75-34-3	1,1-Dichloroethane	13	
75-35-4	1,1-Dichloroethene	13	
563-58-6	1,1-Dichloropropene	32	
87-61-6	1,2,3-Trichlorobenzene	43	
96-18-4	1,2,3-Trichloropropane	46	
120-82-1	1,2,4-Trichlorobenzene	43	
95-63-6	1,2,4-Trimethylbenzene	46	
96-12-8	1,2-Dibromo-3-Chloropropane	33	
95-50-1	1,2-Dichlorobenzene	50	
107-06-2	1,2-Dichloroethane	37	
78-87-5	1,2-Dichloropropane	8.4	
108-67-8	1,3,5-trimethylbenzene	47	
541-73-1	1,3-Dichlorobenzene	49	
142-28-9	1,3-Dichloropropane	42	
106-46-7	1,4-Dichlorobenzene	50	
594-20-7	2,2-Dichloropropane	12	
78-93-3	2-Butanone	58	
95-49-8	2-Chlorotoluene	52	
591-78-6	2-Hexanone	82	
106-43-4	4-Chlorotoluene	52	
99-87-6	4-Isopropyltoluene	52	
108-10-1	4-Methyl-2-Pentanone	81	
67-64-1	Acetone	2.9	J
71-43-2	Benzene	29	
108-86-1	Bromobenzene	50	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MS
Sample Volume :	5	Lab File ID :	A62652.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	19	
75-27-4	Bromodichloromethane	8.9	
75-25-2	Bromoform	40	
74-83-9	Bromomethane	13	
75-15-0	Carbon Disulfide	11	
56-23-5	Carbon Tetrachloride	55	
108-90-7	Chlorobenzene	46	
75-00-3	Chloroethane	9.1	
67-66-3	Chloroform	13	
74-87-3	Chloromethane	12	
110-82-7	Cyclohexane	14	
124-48-1	Dibromochloromethane	47	
74-95-3	Dibromomethane	9.8	
75-71-8	Dichlorodifluoromethane	9.1	
100-41-4	Ethylbenzene	44	
106-93-4	Ethylene DiBromide	44	
76-13-1	Freon 113	17	
87-68-3	Hexachlorobutadiene	41	
98-82-8	Isopropylbenzene	48	
79-20-9	Methyl Acetate	66	
108-87-2	Methylcyclohexane	14	
75-09-2	Methylene Chloride	14	
91-20-3	Naphthalene	43	
135-98-8	Sec-Butylbenzene	49	
100-42-5	Styrene	45	
127-18-4	Tetrachloroethylene	55	
108-88-3	Toluene	11	
79-01-6	Trichloroethene	40	
75-69-4	Trichlorofluoromethane	14	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MS
Sample Volume :	5	Lab File ID :	A62652.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	6.3	
75-01-4	Vinyl Chloride	13	
156-59-2	cis-1,2-Dichloroethene	14	
10061-01-5	cis-1,3-Dichloropropene	9.7	
136777-61-2	m,p-Xylene	94	
104-51-8	n-Butylbenzene	46	
103-65-1	n-Propylbenzene	47	
95-47-6	o-Xylene	46	
98-06-6	tert-Butylbenzene	50	
1634-04-4	tert-butyl methyl ether	13	
156-60-5	trans-1,2-dichloroethene	14	
10061-02-6	trans-1,3-dichloropropene	8.6	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62652.D
Acq On : 27 Mar 2009 4:54 pm
Operator : SM
Sample : 903098-012MS
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Mar 31 11:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.548	96	2007104	50.00	ug/L	#-0.02
40) 1,4-Difluorobenzene	4.666	114	2214970	50.00	ug/L	#-0.02
58) Chlorobenzene-d5	7.774	117	449735	50.00	ug/L	# 0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.307	65	524056	47.26	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 94.52%			
53) Toluene-d8	6.132	98	492492	10.02	ug/L	-0.02
Spiked Amount 50.000	Range 85 - 120		Recovery = 20.04%#			
75) 4-Bromofluorobenzene	8.881	95	203488	45.59	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 91.18%			
91) 1,2-Dichlorobenzene-d4	10.085	152	265379	54.51	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 109.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.210	85	41408	9.12	ug/L	89
3) Chloromethane	1.354	50	71287	12.53	ug/L	96
4) Vinyl chloride	1.419	62	83829	13.49	ug/L	98
5) Bromomethane	1.649	94	33701	13.08	ug/L	90
6) Chloroethane	1.718	64	51656	9.07	ug/L	100
7) Trichlorofluoromethane	1.863	101	134007	13.94	ug/L	99
8) Ethyl Ether	2.066	59	76529	10.27	ug/L	93
9) Freon 113	2.200	101	115514	16.96	ug/L	100
10) Acrolein	2.232	56	65041	25.27	ug/L #	74
11) Tert-Butyl alcohol	2.772	59	125937	533.25	ug/L #	47
12) 1,1-Dichloroethene	2.226	96	99578	13.49	ug/L	82
13) Iodomethane	2.355	142	154821	23.47	ug/L	100
14) Acetonitrile	2.499	40	774206	197.27	ug/L #	1
15) Methylene chloride	2.612	84	112365	14.44	ug/L	93
16) Trans-1,2-dichloroethene	2.772	96	109528	13.64	ug/L	82
17) Isopropyl ether	3.104	45	371540	11.50	ug/L	95
18) 1,1-Dichloroethane	3.125	63	182794	12.79	ug/L	99
19) Acetone	2.371	43	32513	2.91	ug/L #	78
20) Methyl Acetate	4.313	43	313303	65.57	ug/L #	100
21) MTBE	2.756	73	298584	12.85	ug/L	100
22) Carbon disulfide	2.376	76	251591	11.00	ug/L	100
24) Acrylonitrile	2.868	53	135440	62.49	ug/L	100
25) Chloroprene	3.163	53	163342	11.95	ug/L	93
26) n-Heptane	4.543	71	14221	2.04	ug/L #	1
27) 2,2-Dichloropropane	3.564	77	146784	12.57	ug/L #	74
28) Cis-1,2-dichloroethene	3.591	96	131665	13.79	ug/L	97

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62652.D
Acq On : 27 Mar 2009 4:54 pm
Operator : SM
Sample : 903098-012MS
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Mar 31 11:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.772	96	250759m	28.77 ug/L		
30) Propionitrile	3.772	54	205155	161.49 ug/L	#	89
31) Bromochloromethane	3.789	128	90107	19.44 ug/L		75
32) Tetrahydrofuran	3.644	72	49717	20.84 ug/L	#	22
33) Chloroform	3.842	83	212683	13.14 ug/L		99
34) Cyclohexane	3.944	56	196357	14.04 ug/L		89
35) 1,1,1-Trichloroethane	3.965	97	184893	14.99 ug/L		99
36) Carbon tetrachloride	4.067	117	630751	55.47 ug/L		98
37) Methylcyclohexane	4.971	83	188652	13.75 ug/L		92
38) Isobutyl Alcohol	4.313	43	313303	490.91 ug/L	#	39
41) 2-Butanone	3.639	43	336673	58.56 ug/L		94
42) 1,1-Dichloropropene	4.104	75	456568	31.63 ug/L		88
43) Vinyl Acetate	3.152	43	99694	6.31 ug/L		99
44) Benzene	4.281	78	1385432	29.02 ug/L		100
45) 1,2-Dichloroethane	4.372	62	563974	37.39 ug/L		100
46) Trichloroethene	4.869	95	494677	40.41 ug/L	#	65
47) 1,2-Dichloropropane	5.147	63	104010	8.38 ug/L		99
48) Methyl methacrylate	5.260	69	75065	8.38 ug/L		99
49) Dibromomethane	5.270	93	73753	9.78 ug/L		96
50) Bromodichloromethane	5.420	83	141648	8.87 ug/L	#	99
52) Cis-1,3-dichloropropene	5.907	75	155028	9.73 ug/L		93
54) Toluene	6.207	92	279669	10.73 ug/L		99
55) Trans-1,3-dichloropropene	6.565	75	141416	8.57 ug/L		93
56) Ethyl methacrylate	6.624	69	130800	8.47 ug/L		91
57) 1,1,2-Trichloroethane	6.768	83	83023	9.01 ug/L		88
59) 4-Methyl-2-pentanone	6.105	43	255959	81.39 ug/L	#	16
60) 2-Hexanone	7.073	43	176261	81.76 ug/L		94
61) Tetrachloroethene	6.784	166	130700	55.00 ug/L		99
62) 1,3-Dichloropropane	6.972	76	153311	42.07 ug/L		96
63) Dibromochloromethane	7.180	129	118814	47.48 ug/L		99
64) 1,2-Dibromoethane	7.314	107	100677	44.51 ug/L		97
65) 1-Chlorohexane	7.785	91	165567	44.34 ug/L		92
66) Chlorobenzene	7.806	112	343364	46.48 ug/L		85
67) 1,1,1,2-Tetrachloroethane	7.902	131	129324	42.78 ug/L		99
68) Ethylbenzene	7.892	91	557092	44.16 ug/L		96
69) m,p-Xylene	8.015	106	490693	94.18 ug/L		85
70) o-Xylene	8.389	106	235555	45.87 ug/L		86
71) Xylene (Total)	8.015	106	734678m	142.62 ug/L		
72) Styrene	8.421	104	386136	44.74 ug/L		99
73) Bromoform	8.598	173	78184	39.73 ug/L		99
74) Isopropylbenzene	8.710	105	546435	47.90 ug/L		98
76) Bromobenzene	8.994	156	164374	50.43 ug/L		94

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62652.D
Acq On : 27 Mar 2009 4:54 pm
Operator : SM
Sample : 903098-012MS
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Mar 31 11:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

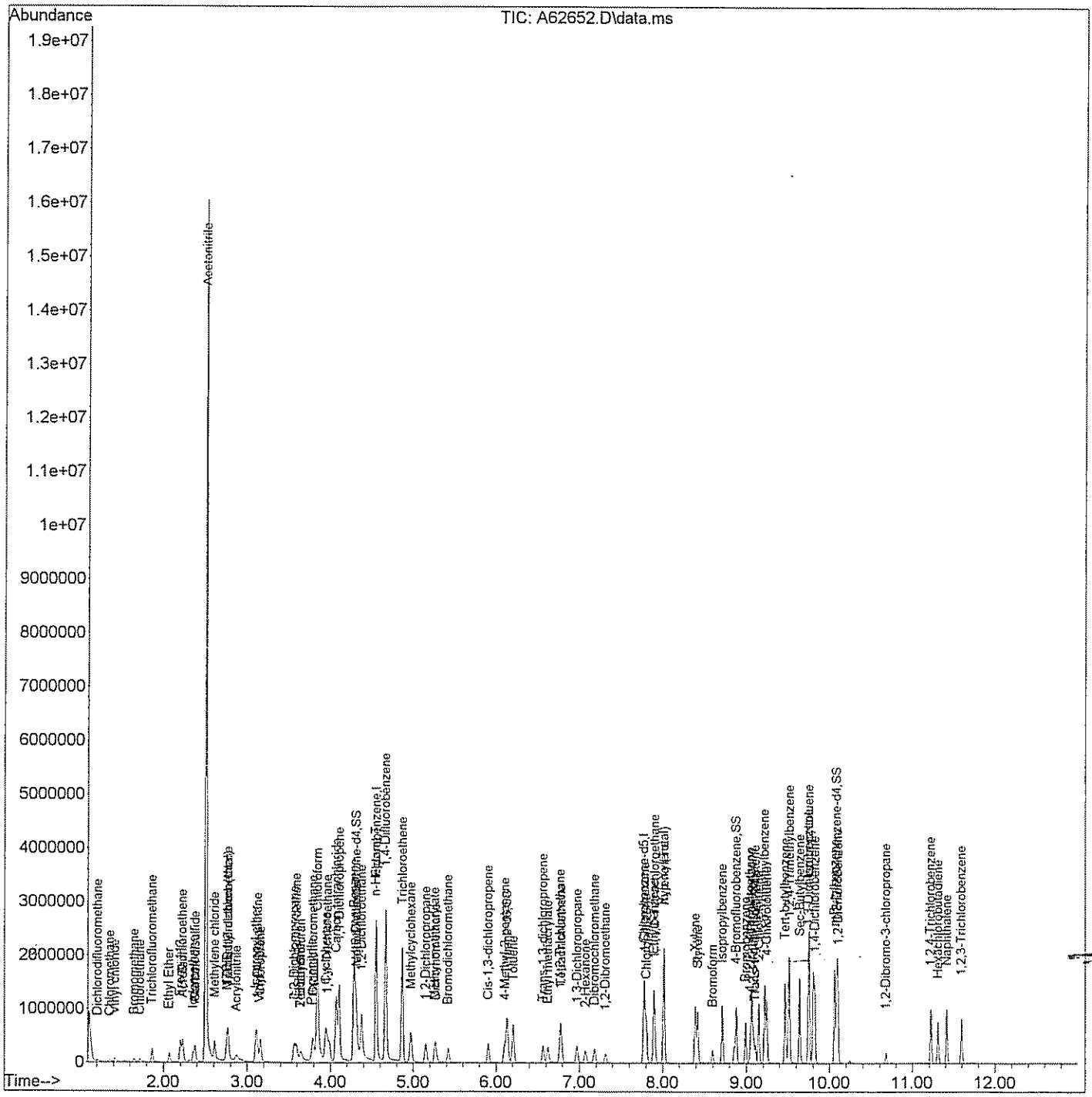
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) 1,1,2,2-Tetrachloroethane	9.047	83	140569	40.33 ug/L	93
78) 1,2,3-Trichloropropane	9.085	110	47640	45.81 ug/L	99
79) n-Propylbenzene	9.063	91	727302	47.07 ug/L	93
80) Trans-1,4-dichloro-2-b...	9.106	53	46137	46.59 ug/L #	1
81) 2-Chlorotoluene	9.149	126	171890	51.87 ug/L	84
82) 4-Chlorotoluene	9.245	126	181626	51.54 ug/L	72
83) 1,3,5-Trimethylbenzene	9.218	105	562533	47.00 ug/L	91
84) Tert-butylbenzene	9.465	119	537888	50.32 ug/L	96
86) 1,2,4-Trimethylbenzene	9.518	105	581492	45.67 ug/L	90
87) Sec-Butylbenzene	9.641	105	807503	48.78 ug/L	97
88) 1,3-Dichlorobenzene	9.743	146	356894	49.29 ug/L	99
89) 4-Isopropyltoluene	9.753	119	744807	52.43 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	358005	49.52 ug/L	98
92) 1,2-Dichlorobenzene	10.101	146	349829	50.28 ug/L	98
93) n-Butylbenzene	10.058	91	624068	46.38 ug/L	92
94) 1,2-Dibromo-3-chloropr...	10.679	75	22613	32.86 ug/L #	52
95) 1,2,4-Trichlorobenzene	11.219	180	205661	43.22 ug/L	95
96) Hexachlorobutadiene	11.305	225	87540	41.38 ug/L	95
97) Naphthalene	11.412	128	563798	43.32 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	182965	43.02 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62652.D
Acq On : 27 Mar 2009 4:54 pm
Operator : SM
Sample : 903098-012MS
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 62 Sample Multiplier: 1

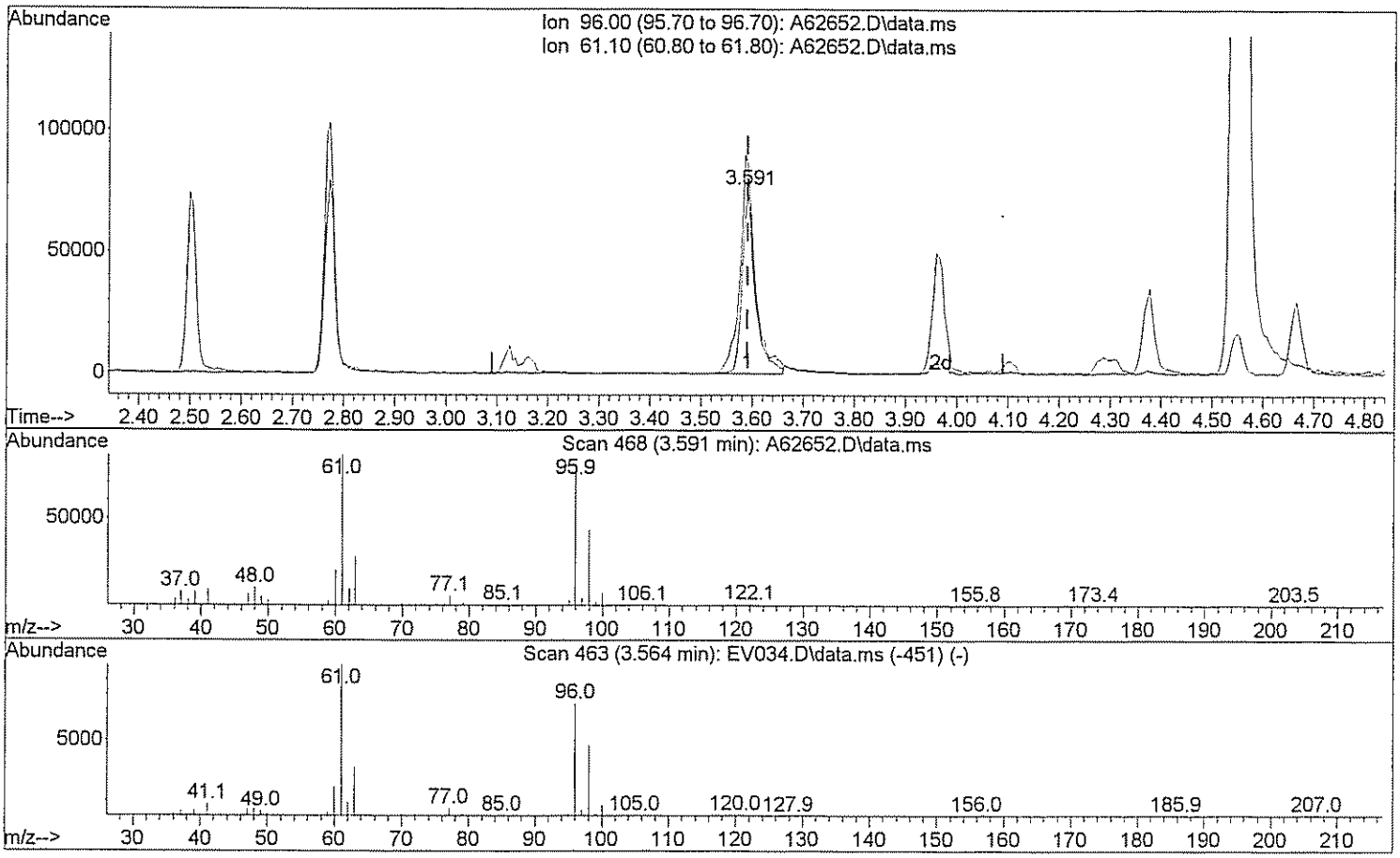
Quant Time: Mar 31 11:06:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62652.D
Acq On : 27 Mar 2009 4:54 pm
Operator : SM
Sample : 903098-012MS
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Mar 30 08:43:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62652.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (-0.000) 15.11 ug/L

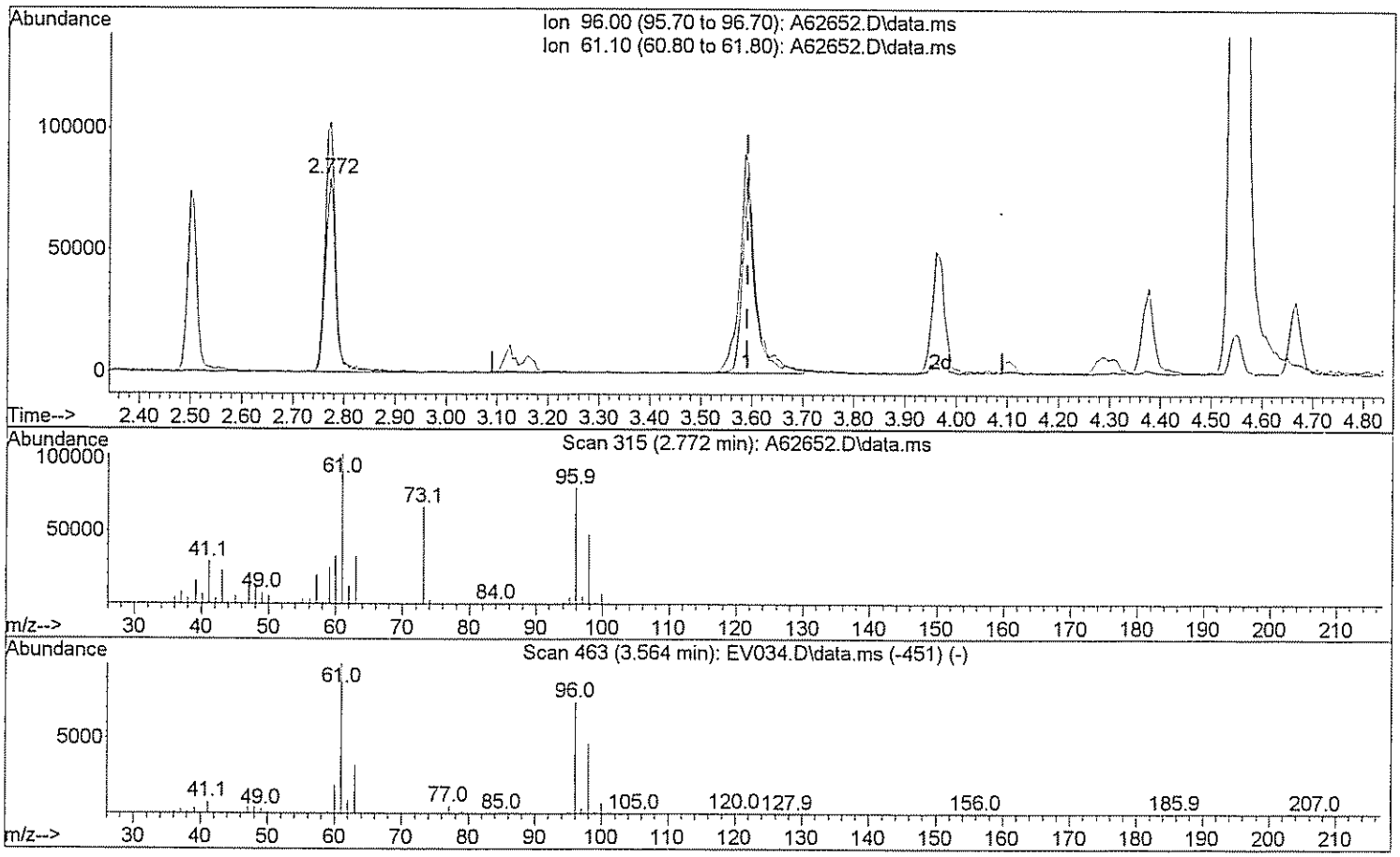
response 131665

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	147.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62652.D
Acq On : 27 Mar 2009 4:54 pm
Operator : SM
Sample : 903098-012MS
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Mar 30 08:43:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62652.D\data.ms

(29) 1,2-dichloroethene(total)

2.772min (-0.819) 28.77 ug/L m 3/31/09

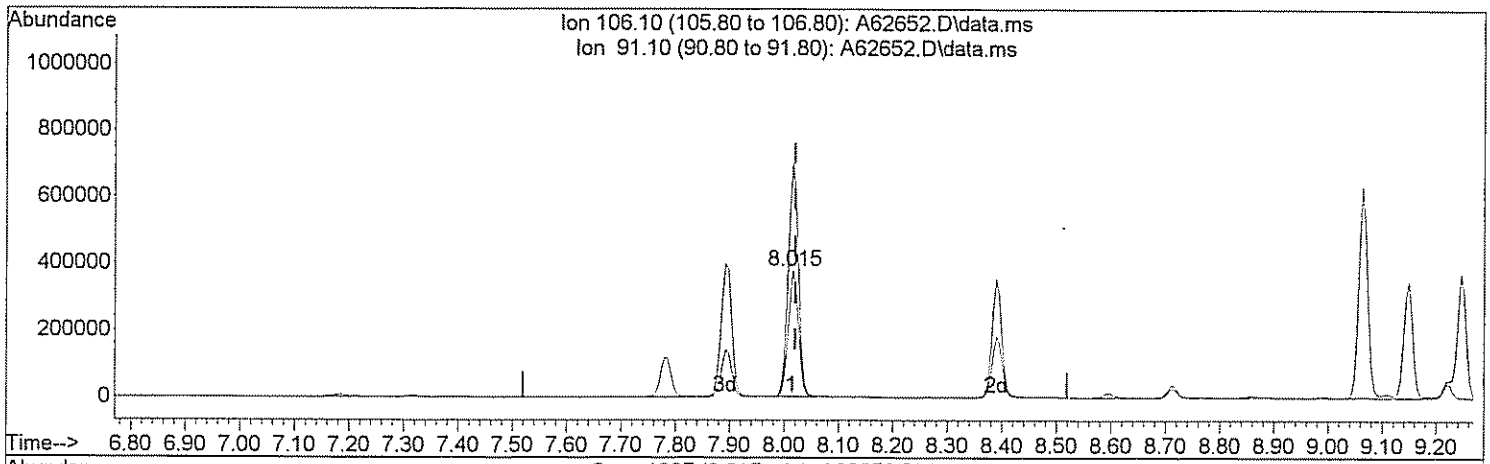
response 250759

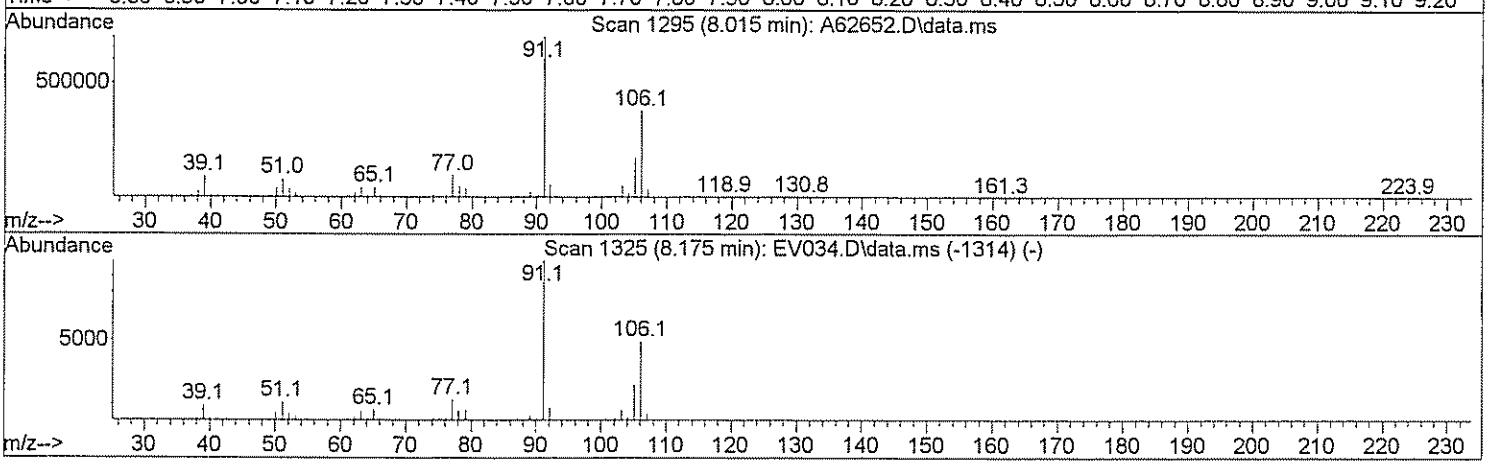
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	77.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62652.D
Acq On : 27 Mar 2009 4:54 pm
Operator : SM
Sample : 903098-012MS
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Mar 30 08:43:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration





TIC: A62652.D\data.ms

(71) Xylene (Total)

8.015min (-0.005) 95.26 ug/L

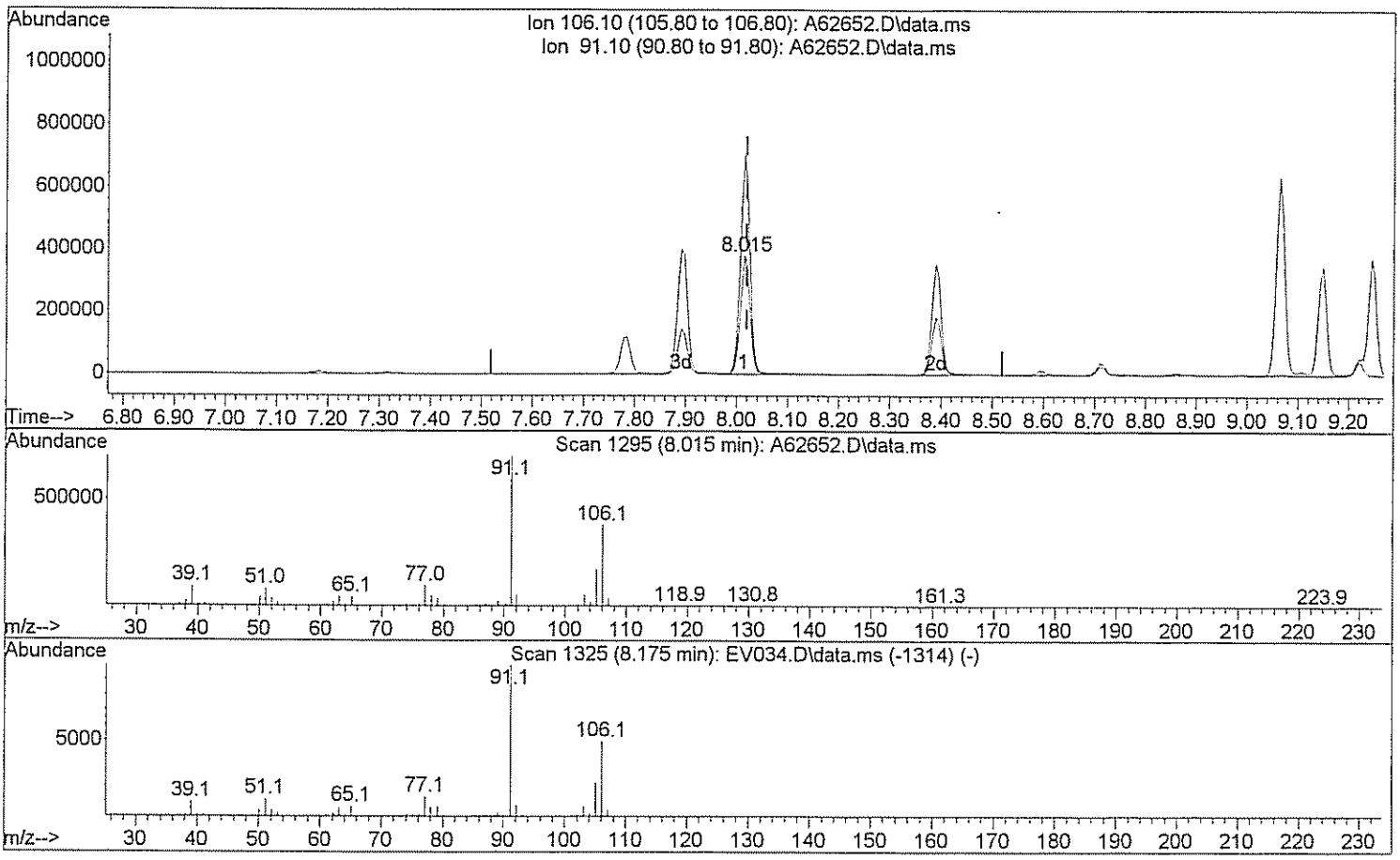
response 490693

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	185.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62652.D
Acq On : 27 Mar 2009 4:54 pm
Operator : SM
Sample : 903098-012MS
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Mar 30 08:43:12 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62652.D\data.ms

(71) Xylene (Total)

8.015min (-0.005) 142.62 ug/L m DW 3/31/09

response 734678

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	124.02#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MSD
Sample Volume :	5	Lab File ID :	A62654.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	
71-55-6	1,1,1-Trichloroethane	67	
79-34-5	1,1,2,2-Tetrachloroethane	46	
79-00-5	1,1,2-Trichloroethane	50	
75-34-3	1,1-Dichloroethane	58	
75-35-4	1,1-Dichloroethene	60	
563-58-6	1,1-Dichloropropene	55	
87-61-6	1,2,3-Trichlorobenzene	54	
96-18-4	1,2,3-Trichloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	55	
96-12-8	1,2-Dibromo-3-Chloropropane	40	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	56	
541-73-1	1,3-Dichlorobenzene	59	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	58	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	94	
95-49-8	2-Chlorotoluene	59	
591-78-6	2-Hexanone	75	
106-43-4	4-Chlorotoluene	58	
99-87-6	4-Isopropyltoluene	62	
108-10-1	4-Methyl-2-Pentanone	74	
67-64-1	Acetone	96	
71-43-2	Benzene	48	
108-86-1	Bromobenzene	56	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MSD
Sample Volume :	5	Lab File ID :	A62654.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	61	
75-27-4	Bromodichloromethane	49	
75-25-2	Bromoform	47	
74-83-9	Bromomethane	74	
75-15-0	Carbon Disulfide	50	
56-23-5	Carbon Tetrachloride	64	
108-90-7	Chlorobenzene	54	
75-00-3	Chloroethane	48	
67-66-3	Chloroform	58	
74-87-3	Chloromethane	58	
110-82-7	Cyclohexane	61	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	52	
75-71-8	Dichlorodifluoromethane	42	
100-41-4	Ethylbenzene	52	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	78	
87-68-3	Hexachlorobutadiene	55	
98-82-8	Isopropylbenzene	58	
79-20-9	Methyl Acetate	61	
108-87-2	Methylcyclohexane	63	
75-09-2	Methylene Chloride	55	
91-20-3	Naphthalene	52	
135-98-8	Sec-Butylbenzene	59	
100-42-5	Styrene	52	
127-18-4	Tetrachloroethylene	60	
108-88-3	Toluene	57	
79-01-6	Trichloroethene	54	
75-69-4	Trichlorofluoromethane	77	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-049-1/9MSD
Sample Volume :	5	Lab File ID :	A62654.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	28	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	56	
10061-01-5	cis-1,3-Dichloropropene	40	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	56	
103-65-1	n-Propylbenzene	58	
95-47-6	o-Xylene	54	
98-06-6	tert-Butylbenzene	60	
1634-04-4	tert-butyl methyl ether	55	
156-60-5	trans-1,2-dichloroethene	62	
10061-02-6	trans-1,3-dichloropropene	46	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62654.D
Acq On : 27 Mar 2009 5:34 pm
Operator : SM
Sample : 903098-012MSD
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 31 11:07:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	514652	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	456303	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.785	117	483873	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	144479	50.81	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.62%				
53) Toluene-d8	6.148	98	504505	49.81	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 99.62%				
75) 4-Bromofluorobenzene	8.881	95	248800	51.81	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 103.62%				
91) 1,2-Dichlorobenzene-d4	10.085	152	303323	57.90	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.215	85	49312	42.35	ug/L		97
3) Chloromethane	1.354	50	84182	57.72	ug/L		96
4) Vinyl chloride	1.418	62	102911	46.78	ug/L		100
5) Bromomethane	1.654	94	48682	73.68	ug/L		99
6) Chloroethane	1.723	64	70472	48.25	ug/L		95
7) Trichlorofluoromethane	1.868	101	189360	76.83	ug/L		98
8) Ethyl Ether	2.071	59	92604	48.46	ug/L		96
9) Freon 113	2.205	101	136798	78.35	ug/L		97
10) Acrolein	2.216	56	79347	252.27	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	121002	1200.04	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	112876	59.63	ug/L		83
13) Iodomethane	2.360	142	178531	105.56	ug/L		96
14) Acetonitrile	2.504	40	921738	747.59	ug/L	#	1
15) Methylene chloride	2.617	84	126244	54.66	ug/L		93
16) Trans-1,2-dichloroethene	2.772	96	126828	61.62	ug/L		79
17) Isopropyl ether	3.109	45	411957	49.75	ug/L		95
18) 1,1-Dichloroethane	3.125	63	213265	58.19	ug/L		99
19) Acetone	2.317	43	49198	95.81	ug/L		90
20) Methyl Acetate	4.264	43	70836	61.42	ug/L	#	100
21) MTBE	2.756	73	329038	55.24	ug/L		100
22) Carbon disulfide	2.381	76	284736	49.51	ug/L		100
24) Acrylonitrile	2.852	53	157222	275.92	ug/L		100
25) Chloroprene	3.162	53	184374	52.59	ug/L		93
26) n-Heptane	4.564	71	3911	2.19	ug/L	#	1
27) 2,2-Dichloropropane	3.569	77	161109	53.82	ug/L	#	66
28) Cis-1,2-dichloroethene	3.590	96	137100	56.01	ug/L		96

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62654.D
Acq On : 27 Mar 2009 5:34 pm
Operator : SM
Sample : 903098-012MSD
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 31 11:07:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.590	96	270812m	121.16 ug/L	
30) Propionitrile	3.746	54	127195	390.48 ug/L	99
31) Bromochloromethane	3.799	128	72714	61.17 ug/L	77
32) Tetrahydrofuran	3.623	72	23534	38.47 ug/L #	1
33) Chloroform	3.847	83	242458	58.40 ug/L	99
34) Cyclohexane	3.949	56	224382	60.85 ug/L	90
35) 1,1,1-Trichloroethane	3.970	97	211128	66.73 ug/L	99
36) Carbon tetrachloride	4.077	117	188335	64.48 ug/L	100
37) Methylcyclohexane	5.003	83	221774	63.05 ug/L	88
38) Isobutyl Alcohol	4.264	43	70836	432.86 ug/L	93
41) 2-Butanone	3.628	43	117061	94.28 ug/L	94
42) 1,1-Dichloropropene	4.115	75	164185	55.22 ug/L	94
43) Vinyl Acetate	3.152	43	91908	28.22 ug/L #	93
44) Benzene	4.297	78	467711	47.55 ug/L	100
45) 1,2-Dichloroethane	4.388	62	157810	50.79 ug/L #	87
46) Trichloroethene	4.890	95	134955	53.51 ug/L	80
47) 1,2-Dichloropropane	5.169	63	114618	44.81 ug/L	98
48) Methyl methacrylate	5.270	69	69831	41.69 ug/L	88
49) Dibromomethane	5.286	93	80857	52.04 ug/L	93
50) Bromodichloromethane	5.436	83	161401	49.05 ug/L #	98
51) 2-Chloroethylvinyl ether	6.222	63	46392	27.04 ug/L #	49
52) Cis-1,3-dichloropropene	5.923	75	172248	40.54 ug/L	95
54) Toluene	6.222	92	308365	57.40 ug/L	96
55) Trans-1,3-dichloropropene	6.570	75	157558	46.35 ug/L	96
56) Ethyl methacrylate	6.629	69	145413	45.69 ug/L	93
57) 1,1,2-Trichloroethane	6.779	83	94331	49.68 ug/L	87
59) 4-Methyl-2-pentanone	6.099	43	251128	74.22 ug/L #	94
60) 2-Hexanone	7.068	43	173972	75.00 ug/L	94
61) Tetrachloroethene	6.800	166	154151	60.29 ug/L	99
62) 1,3-Dichloropropane	6.977	76	180833	46.12 ug/L	91
63) Dibromochloromethane	7.191	129	137559	51.10 ug/L	96
64) 1,2-Dibromoethane	7.319	107	118469	48.68 ug/L	100
65) 1-Chlorohexane	7.790	91	197537	49.17 ug/L	95
66) Chlorobenzene	7.811	112	428479	53.91 ug/L	87
67) 1,1,1,2-Tetrachloroethane	7.908	131	163003	49.52 ug/L	99
68) Ethylbenzene	7.897	91	707608	52.13 ug/L	97
69) m,p-Xylene	8.020	106	607959	108.46 ug/L	88
70) o-Xylene	8.394	106	298533	54.03 ug/L	87
71) Xylene (Total)	8.020	106	910378m	164.26 ug/L	
72) Styrene	8.421	104	483509	52.07 ug/L	97
73) Bromoform	8.598	173	100699	46.71 ug/L	99
74) Isopropylbenzene	8.715	105	709316	57.79 ug/L	98

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62654.D
Acq On : 27 Mar 2009 5:34 pm
Operator : SM
Sample : 903098-012MSD
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 63 Sample Multiplier: 1

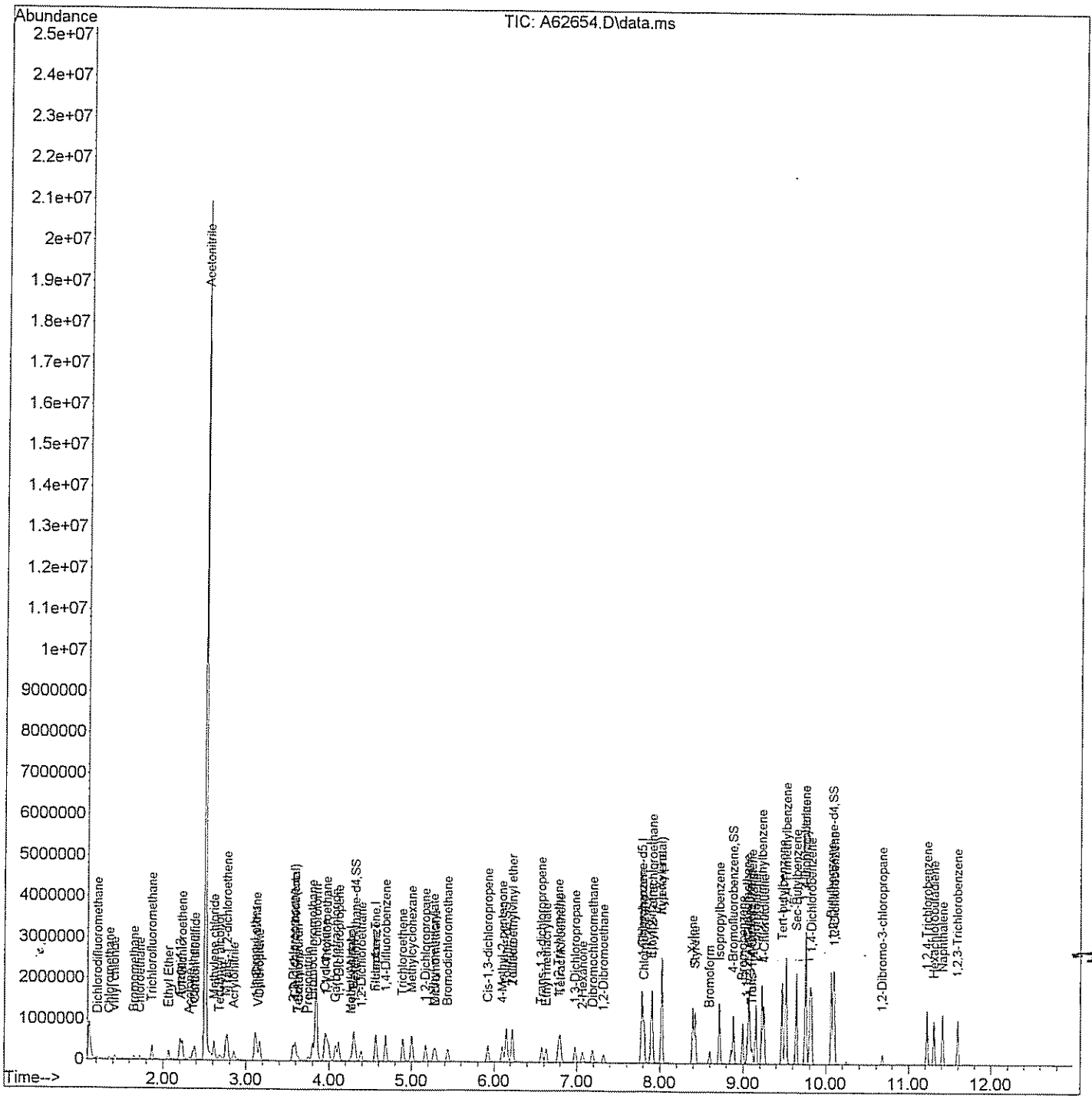
Quant Time: Mar 31 11:07:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	198120	56.49 ug/L	100
77) 1,1,2,2-Tetrachloroethane	9.047	83	173426	46.25 ug/L	95
78) 1,2,3-Trichloropropane	9.085	110	54500	48.70 ug/L	98
79) n-Propylbenzene	9.069	91	957006	57.56 ug/L	96
80) Trans-1,4-dichloro-2-b...	9.106	53	55033	51.65 ug/L #	1
81) 2-Chlorotoluene	9.149	126	209412	58.74 ug/L	88
82) 4-Chlorotoluene	9.250	126	218746	57.70 ug/L	81
83) 1,3,5-Trimethylbenzene	9.224	105	721011	55.99 ug/L	93
84) Tert-butylbenzene	9.470	119	686285	59.67 ug/L	96
86) 1,2,4-Trimethylbenzene	9.518	105	751838	54.88 ug/L	93
87) Sec-Butylbenzene	9.641	105	1046454	58.76 ug/L	98
88) 1,3-Dichlorobenzene	9.748	146	459619	58.99 ug/L	98
89) 4-Isopropyltoluene	9.753	119	950173	62.17 ug/L	98
90) 1,4-Dichlorobenzene	9.823	146	453702	58.33 ug/L	100
92) 1,2-Dichlorobenzene	10.101	146	433683	57.94 ug/L	99
93) n-Butylbenzene	10.058	91	817512	56.46 ug/L	93
94) 1,2-Dibromo-3-chloropr...	10.679	75	29657	40.05 ug/L #	58
95) 1,2,4-Trichlorobenzene	11.224	180	285499	55.77 ug/L	96
96) Hexachlorobutadiene	11.305	225	125606	55.19 ug/L	99
97) Naphthalene	11.412	128	727340	51.95 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	245053	53.55 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62654.D
Acq On : 27 Mar 2009 5:34 pm
Operator : SM
Sample : 903098-012MSD
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 63 Sample Multiplier: 1

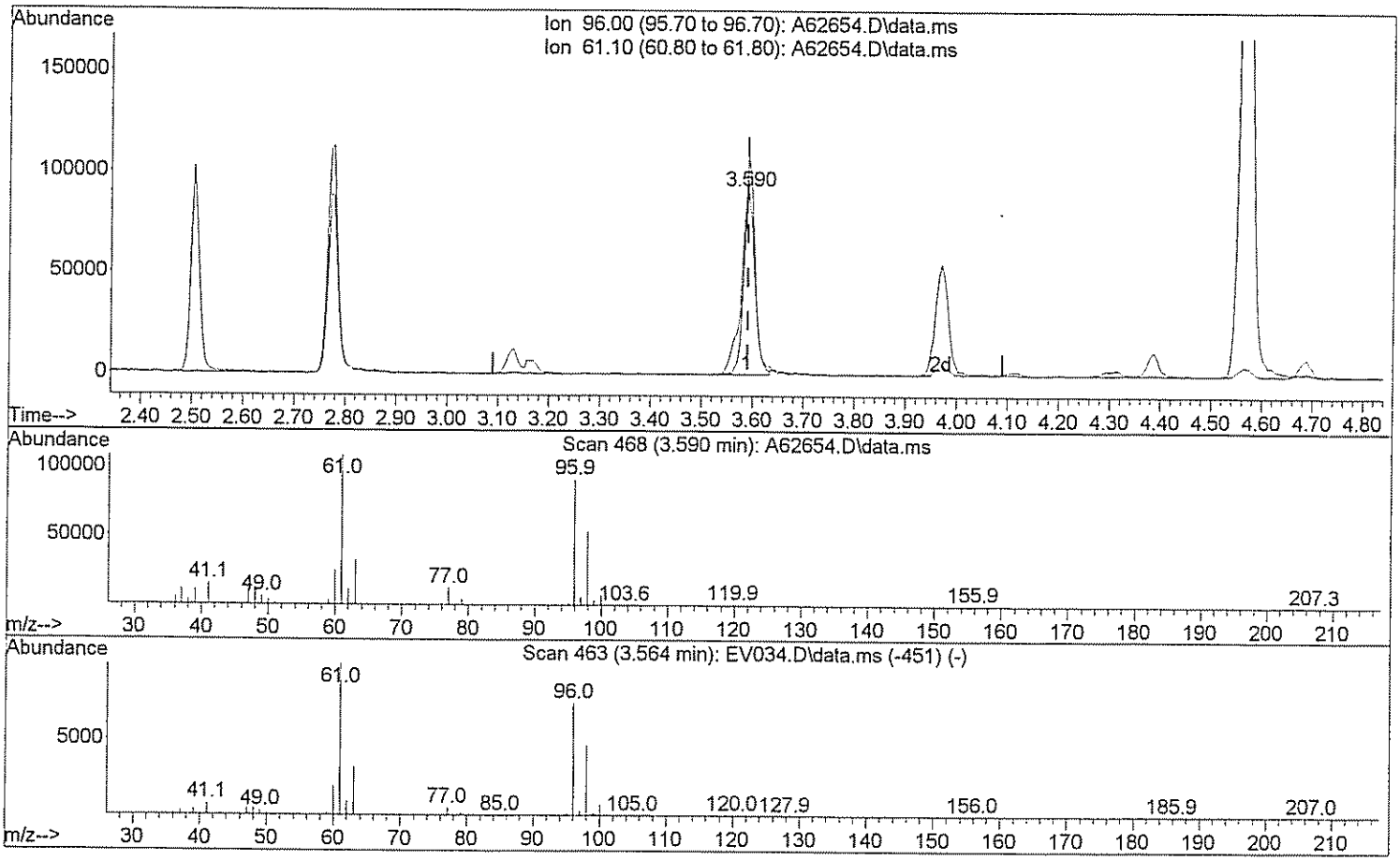
Quant Time: Mar 31 11:07:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62654.D
Acq On : 27 Mar 2009 5:34 pm
Operator : SM
Sample : 903098-012MSD
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 30 08:43:16 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62654.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 61.34 ug/L

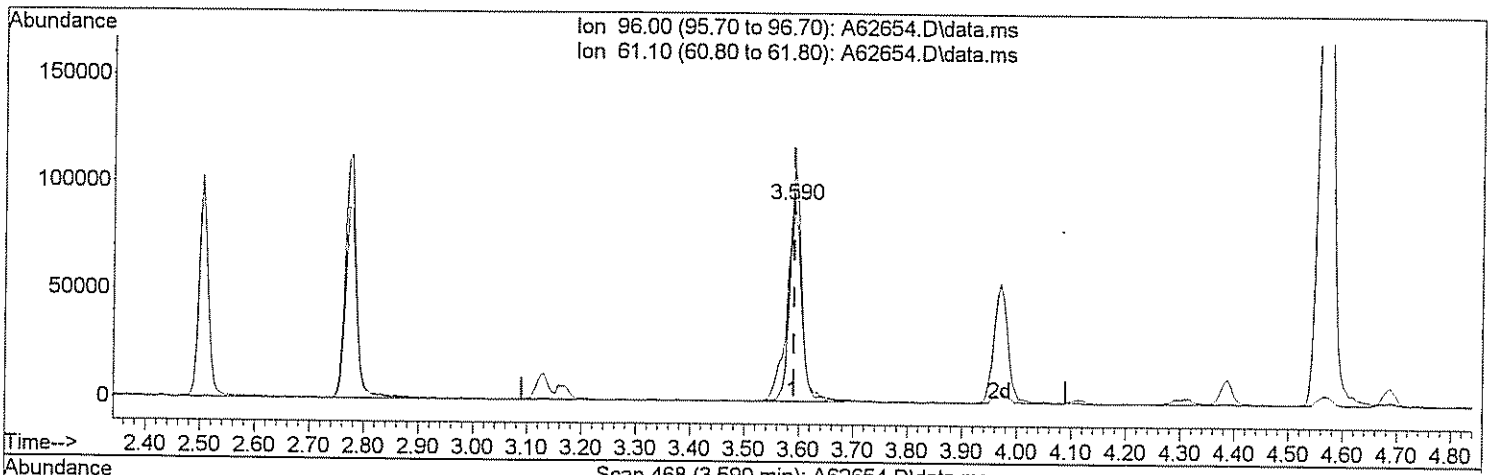
response 137100

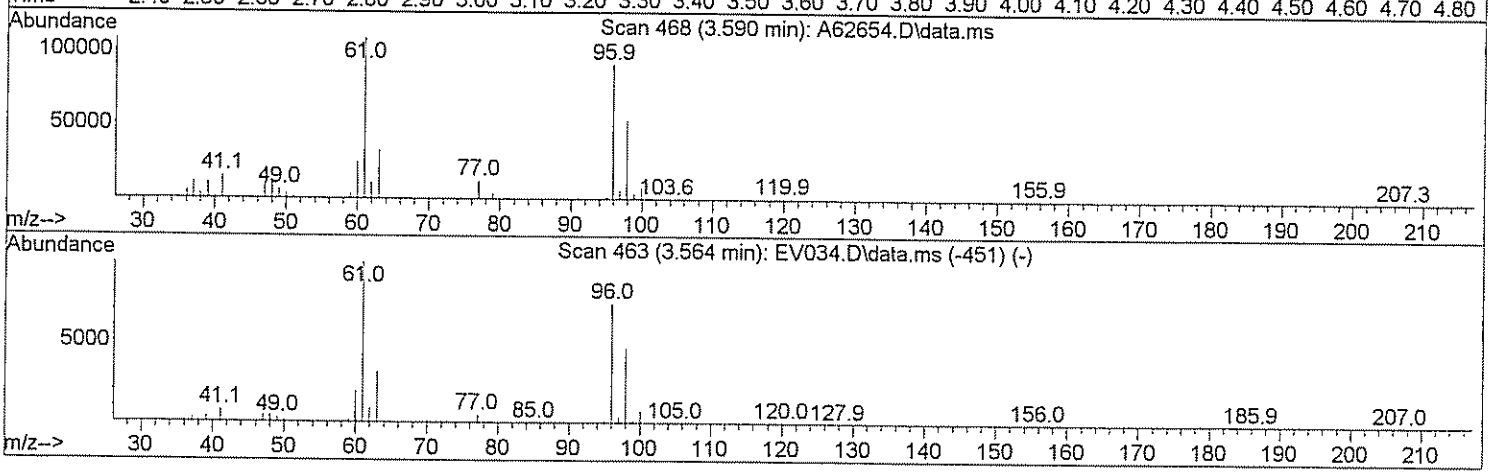
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62654.D
Acq On : 27 Mar 2009 5:34 pm
Operator : SM
Sample : 903098-012MSD
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 30 08:43:16 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration





TIC: A62654.D\data.ms

(29) 1,2-dichloroethene(total)

3.590min (-0.001) 121.16 ug/L m 3/31/09

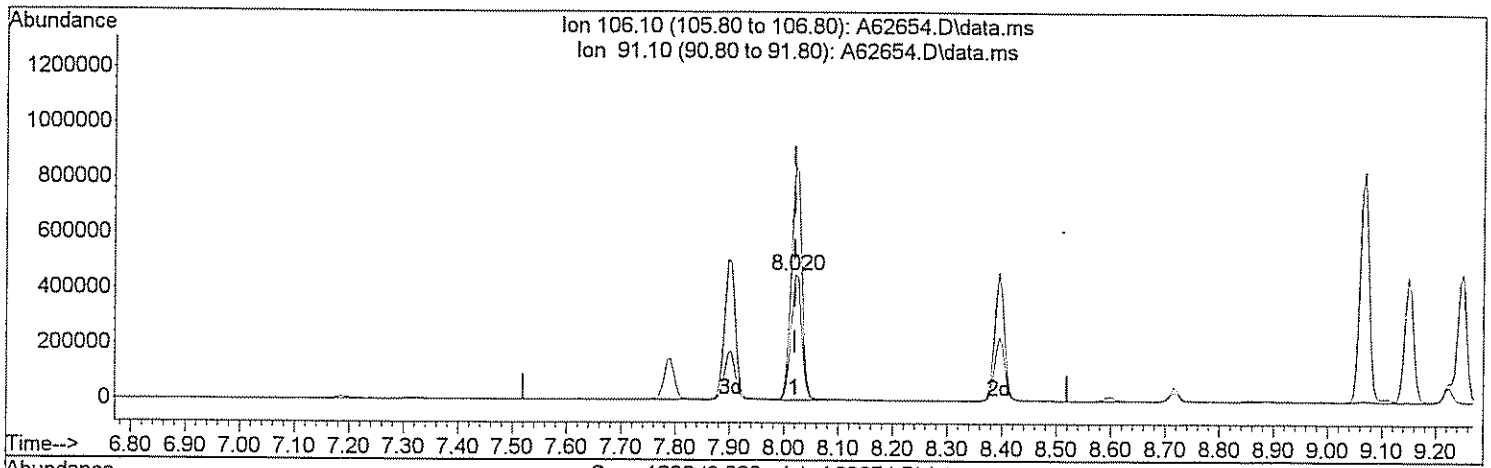
response 270812

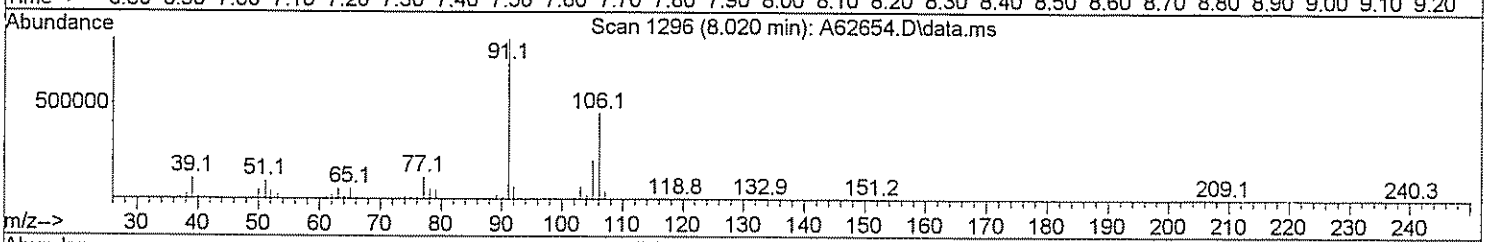
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	70.51#
0.00	0.00	0.00
0.00	0.00	0.00

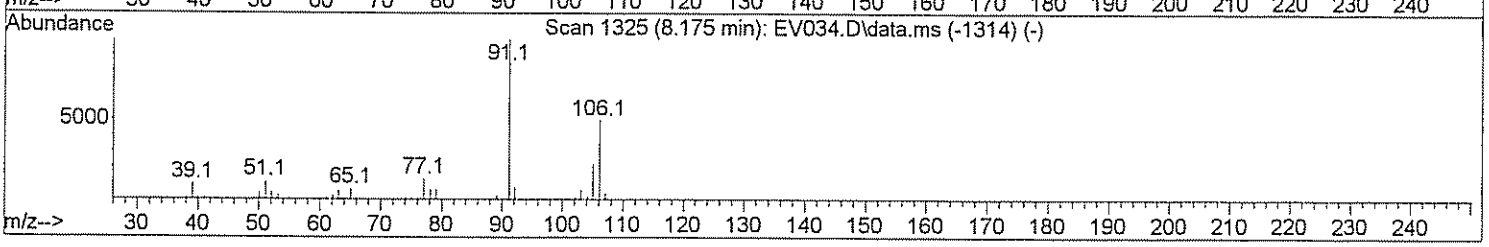
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62654.D
Acq On : 27 Mar 2009 5:34 pm
Operator : SM
Sample : 903098-012MSD
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 30 08:43:16 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration







TIC: A62654.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 109.70 ug/L

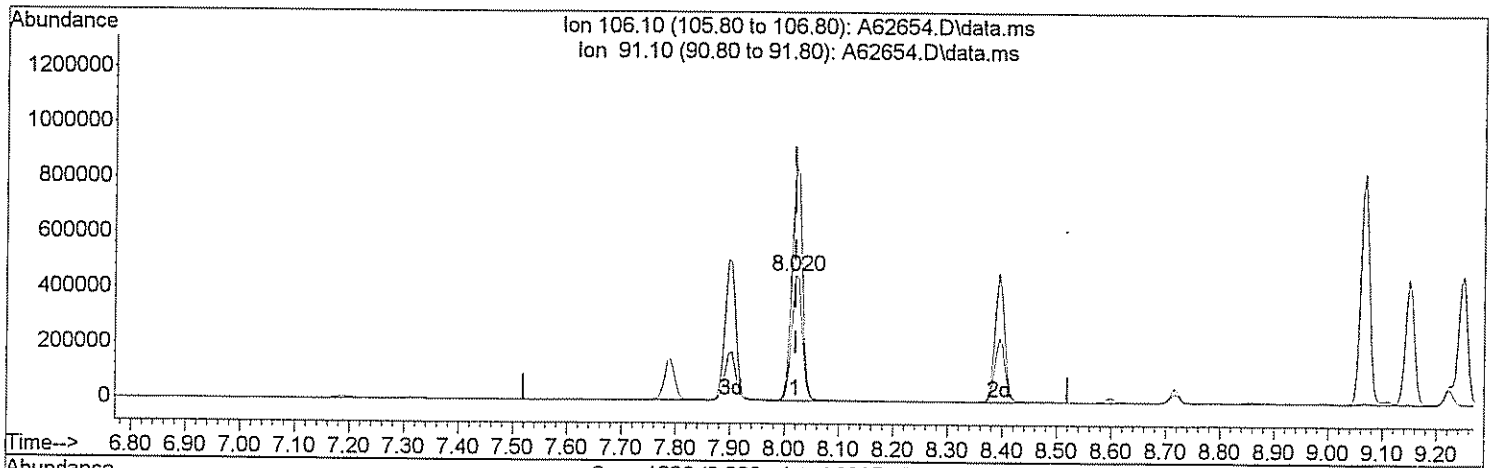
response 607959

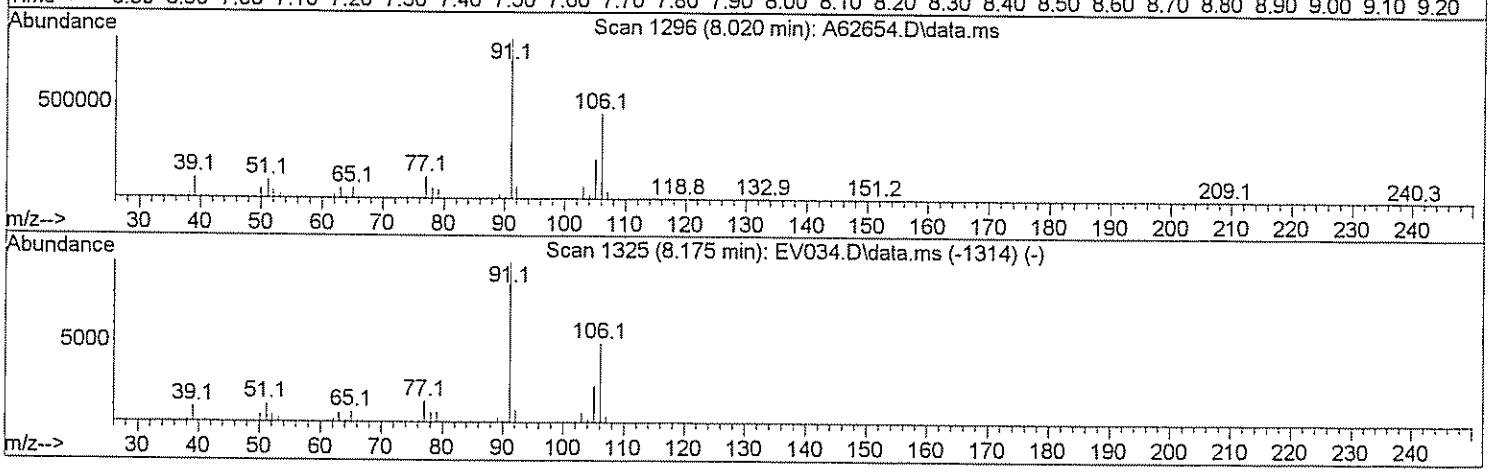
Ion	Exp%	Act%
106.10	100	100
91.10	208.40	190.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62654.D
Acq On : 27 Mar 2009 5:34 pm
Operator : SM
Sample : 903098-012MSD
Misc : OUI-N4GW09-0309,CH2M HILL,WATER
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 30 08:43:16 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration





TIC: A62654.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 164.26 ug/L m DM 3/31/09

response 910378

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.92#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108893
Sample Volume :	5	Lab File ID :	A62570.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	44	
71-55-6	1,1,1-Trichloroethane	13	
79-34-5	1,1,2,2-Tetrachloroethane	26	
79-00-5	1,1,2-Trichloroethane	7.8	
75-34-3	1,1-Dichloroethane	42	
75-35-4	1,1-Dichloroethene	25	
563-58-6	1,1-Dichloropropene	27	
87-61-6	1,2,3-Trichlorobenzene	36	
96-18-4	1,2,3-Trichloropropane	32	
120-82-1	1,2,4-Trichlorobenzene	30	
95-63-6	1,2,4-Trimethylbenzene	34	
96-12-8	1,2-Dibromo-3-Chloropropane	21	
95-50-1	1,2-Dichlorobenzene	37	
107-06-2	1,2-Dichloroethane	21	
78-87-5	1,2-Dichloropropane	7.6	
108-67-8	1,3,5-trimethylbenzene	34	
541-73-1	1,3-Dichlorobenzene	40	
142-28-9	1,3-Dichloropropane	40	
106-46-7	1,4-Dichlorobenzene	40	
594-20-7	2,2-Dichloropropane	51	
78-93-3	2-Butanone	37	
95-49-8	2-Chlorotoluene	1.6	
591-78-6	2-Hexanone	59	
106-43-4	4-Chlorotoluene	41	
99-87-6	4-Isopropyltoluene	37	
108-10-1	4-Methyl-2-Pentanone	61	
67-64-1	Acetone	50	
71-43-2	Benzene	23	
108-86-1	Bromobenzene	42	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108893
Sample Volume :	5	Lab File ID :	A62570.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	59	
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	33	
74-83-9	Bromomethane	73	
75-15-0	Carbon Disulfide	45	
56-23-5	Carbon Tetrachloride	10	
108-90-7	Chlorobenzene	45	
75-00-3	Chloroethane	29	
67-66-3	Chloroform	38	
74-87-3	Chloromethane	12	
110-82-7	Cyclohexane	29	
124-48-1	Dibromochloromethane	48	
74-95-3	Dibromomethane	7.8	
75-71-8	Dichlorodifluoromethane	10	
100-41-4	Ethylbenzene	42	
106-93-4	Ethylene DiBromide	37	
76-13-1	Freon 113	120	
87-68-3	Hexachlorobutadiene	29	
98-82-8	Isopropylbenzene	38	
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	12	
75-09-2	Methylene Chloride	4.4	
91-20-3	Naphthalene	31	
135-98-8	Sec-Butylbenzene	33	
100-42-5	Styrene	40	
127-18-4	Tetrachloroethylene	71	
108-88-3	Toluene	10	
79-01-6	Trichloroethene	14	
75-69-4	Trichlorofluoromethane	88	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108893

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108893
Sample Volume :	5	Lab File ID :	A62570.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	11	
75-01-4	Vinyl Chloride	23	
156-59-2	cis-1,2-Dichloroethene	54	
10061-01-5	cis-1,3-Dichloropropene	9.3	
136777-61-2	m,p-Xylene	88	
104-51-8	n-Butylbenzene	30	
103-65-1	n-Propylbenzene	37	
95-47-6	o-Xylene	40	
98-06-6	tert-Butylbenzene	36	
1634-04-4	tert-butyl methyl ether	5.2	
156-60-5	trans-1,2-dichloroethene	54	
10061-02-6	trans-1,3-dichloropropene	7.8	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62570.D
Acq On : 26 Mar 2009 10:52
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 27 13:11:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.858	96	1283356	50.00	ug/L	# 0.29
40) 1,4-Difluorobenzene	4.997	114	1485089	50.00	ug/L	# 0.32
58) Chlorobenzene-d5	7.875	117	284924	50.00	ug/L	# 0.10
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.157	65	24019	3.39	ug/L	-0.16
Spiked Amount 50.000	Range 70 - 120		Recovery = 6.78%#			
53) Toluene-d8	6.351	98	317067	9.62	ug/L	0.20
Spiked Amount 50.000	Range 85 - 120		Recovery = 19.24%#			
75) 4-Bromofluorobenzene	8.924	95	106195	37.56	ug/L	0.04
Spiked Amount 50.000	Range 75 - 120		Recovery = 75.12%			
91) 1,2-Dichlorobenzene-d4	10.106	152	129364	41.94	ug/L	0.02
Spiked Amount 50.000	Range 64 - 132		Recovery = 83.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.386	85	29359	10.11	ug/L	98
3) Chloromethane	1.557	50	45696	12.56	ug/L	99
4) Vinyl chloride	1.632	62	110197	22.77	ug/L	97
5) Bromomethane	1.937	94	119820	72.72	ug/L	91
6) Chloroethane	2.023	64	105092	28.86	ug/L	98
7) Trichlorofluoromethane	2.189	101	541781	88.15	ug/L	95
8) Ethyl Ether	2.424	59	160057	33.59	ug/L	92
9) Freon 113	2.189	101	541781	124.43	ug/L #	6
10) Acrolein	2.563	56	86999	110.12	ug/L #	86
11) Tert-Butyl alcohol	2.595	59	12035	Below Cal	#	47
12) 1,1-Dichloroethene	1.937	96	118810	25.17	ug/L #	1
13) Iodomethane	2.729	142	718690	170.41	ug/L	95
14) Acetonitrile	2.873	40	951081	339.48	ug/L #	1
15) Methylene chloride	2.558	84	10963	4.36	ug/L #	1
16) Trans-1,2-dichloroethene	2.595	96	275995	53.77	ug/L #	63
17) Isopropyl ether	3.146	45	28430	1.38	ug/L #	53
18) 1,1-Dichloroethane	3.483	63	380249	41.61	ug/L	97
19) Acetone	2.643	43	58961	49.79	ug/L	94
20) Methyl Acetate	4.254	43	31544	Below Cal	#	100
21) MTBE	2.873	73	76884	5.18	ug/L	100
22) Carbon disulfide	2.750	76	649185	45.38	ug/L	100
24) Acrylonitrile	3.205	53	191023	147.37	ug/L	99
25) Chloroprene	3.205	53	191023	21.85	ug/L #	29
27) 2,2-Dichloropropane	3.901	77	380655	50.99	ug/L	99
28) Cis-1,2-dichloroethene	3.933	96	327876	53.71	ug/L #	59
29) 1,2-dichloroethene(total)	3.146	96	670311m	120.27	ug/L	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62570.D
Acq On : 26 Mar 2009 10:52
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 27 13:11:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
30) Propionitrile	3.515	54	16251	20.01 ug/L #	1
31) Bromochloromethane	4.125	128	174483	58.87 ug/L #	20
32) Tetrahydrofuran	3.515	72	1110	0.73 ug/L #	1
33) Chloroform	4.168	83	389444	37.62 ug/L	98
34) Cyclohexane	4.254	56	267898	29.40 ug/L #	66
35) 1,1,1-Trichloroethane	3.901	97	106069	13.44 ug/L #	1
36) Carbon tetrachloride	4.280	117	62787	10.46 ug/L	93
37) Methylcyclohexane	5.281	83	106157	12.10 ug/L	91
38) Isobutyl Alcohol	4.468	43	16462	40.34 ug/L #	14
41) 2-Butanone	3.949	43	143339	36.62 ug/L	94
42) 1,1-Dichloropropene	4.409	75	259971	26.86 ug/L #	68
43) Vinyl Acetate	3.146	43	119326	11.26 ug/L #	77
44) Benzene	4.591	78	739886	23.11 ug/L	100
45) 1,2-Dichloroethane	4.682	62	214105	21.17 ug/L	93
46) Trichloroethene	4.858	95	112505	13.71 ug/L #	1
47) 1,2-Dichloropropane	5.452	63	63281	7.60 ug/L	99
48) Methyl methacrylate	5.538	69	38999	6.07 ug/L	98
49) Dibromomethane	5.554	93	39322	7.78 ug/L	92
51) 2-Chloroethylvinyl ether	6.008	63	154467	27.66 ug/L	92
52) Cis-1,3-dichloropropene	6.137	75	97758	9.31 ug/L	94
54) Toluene	6.420	92	174629	9.99 ug/L	100
55) Trans-1,3-dichloropropene	6.747	75	86525	7.82 ug/L	97
56) Ethyl methacrylate	6.795	69	76364	7.37 ug/L #	81
57) 1,1,2-Trichloroethane	6.939	83	48380	7.83 ug/L	87
59) 4-Methyl-2-pentanone	6.008	43	121687	61.08 ug/L #	45
60) 2-Hexanone	7.212	43	80681	59.07 ug/L	93
61) Tetrachloroethene	6.955	166	107402	71.34 ug/L	99
62) 1,3-Dichloropropane	7.132	76	92700	40.15 ug/L	96
63) Dibromochloromethane	7.319	129	76002	47.94 ug/L	92
64) 1,2-Dibromoethane	7.447	107	52863	36.89 ug/L	95
65) 1-Chlorohexane	7.870	91	97911	41.39 ug/L	90
66) Chlorobenzene	7.902	112	212650	45.44 ug/L	84
67) 1,1,1,2-Tetrachloroethane	7.993	131	84238	43.89 ug/L	93
68) Ethylbenzene	7.982	91	337280	42.20 ug/L	97
69) m,p-Xylene	8.095	106	289514	87.71 ug/L	81
70) o-Xylene	8.453	106	130843	40.22 ug/L	82
71) Xylene (Total)	8.095	106	420579m	128.87 ug/L	
72) Styrene	8.480	104	218997	40.06 ug/L	99
73) Bromoform	8.651	173	40581	33.32 ug/L	100
74) Isopropylbenzene	8.764	105	272490	37.70 ug/L	96
76) Bromobenzene	9.036	156	85704	41.50 ug/L	99
77) 1,1,2,2-Tetrachloroethane	9.085	83	56875	25.76 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62570.D
Acq On : 26 Mar 2009 10:52
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 27 13:11:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

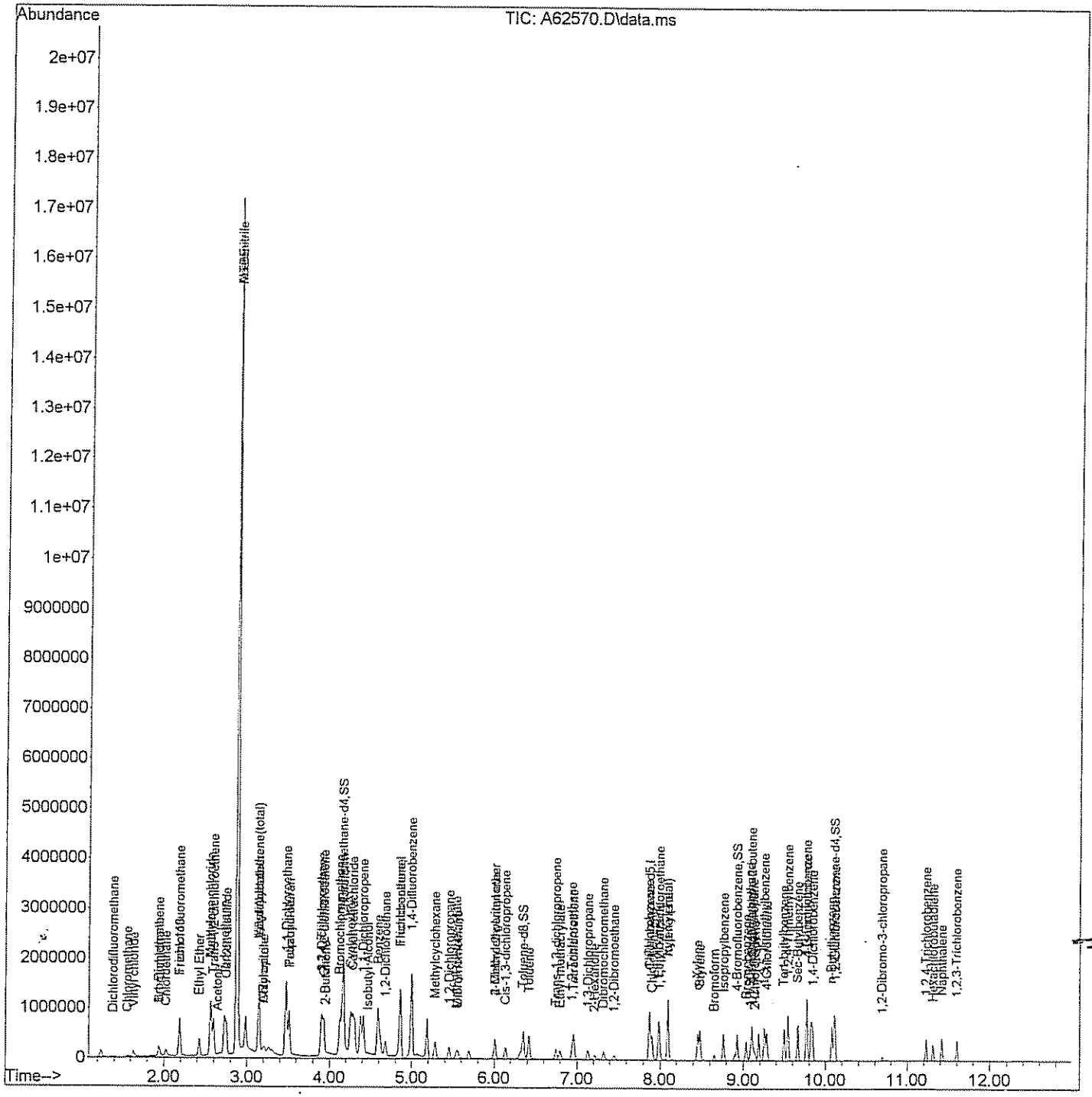
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
78) 1,2,3-Trichloropropane	9.122	110	21216	32.20 ug/L	100
79) n-Propylbenzene	9.101	91	359691	36.74 ug/L	93
80) Trans-1,4-dichloro-2-b...	9.101	53	1695	2.70 ug/L #	1
81) 2-Chlorotoluene	9.138	126	3352	1.60 ug/L #	1
82) 4-Chlorotoluene	9.282	126	92003	41.21 ug/L #	66
83) 1,3,5-Trimethylbenzene	9.250	105	262264	34.59 ug/L	90
84) Tert-butylbenzene	9.491	119	241439	35.65 ug/L #	90
86) 1,2,4-Trimethylbenzene	9.545	105	271314	33.64 ug/L	88
87) Sec-Butylbenzene	9.662	105	348880	33.27 ug/L	92
88) 1,3-Dichlorobenzene	9.769	146	183982	40.10 ug/L	100
89) 4-Isopropyltoluene	9.775	119	329482	36.61 ug/L	94
90) 1,4-Dichlorobenzene	9.844	146	184343	40.25 ug/L	97
92) 1,2-Dichlorobenzene	10.117	146	164936	37.42 ug/L	97
93) n-Butylbenzene	10.074	91	255903	30.02 ug/L #	88
94) 1,2-Dibromo-3-chloropr...	10.689	75	8987	20.61 ug/L #	36
95) 1,2,4-Trichlorobenzene	11.230	180	91914	30.49 ug/L	99
96) Hexachlorobutadiene	11.310	225	38892	29.02 ug/L	93
97) Naphthalene	11.417	128	255974	31.05 ug/L	100
98) 1,2,3-Trichlorobenzene	11.599	180	95805	35.55 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62570.D
Acq On : 26 Mar 2009 10:52
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 53 Sample Multiplier: 1

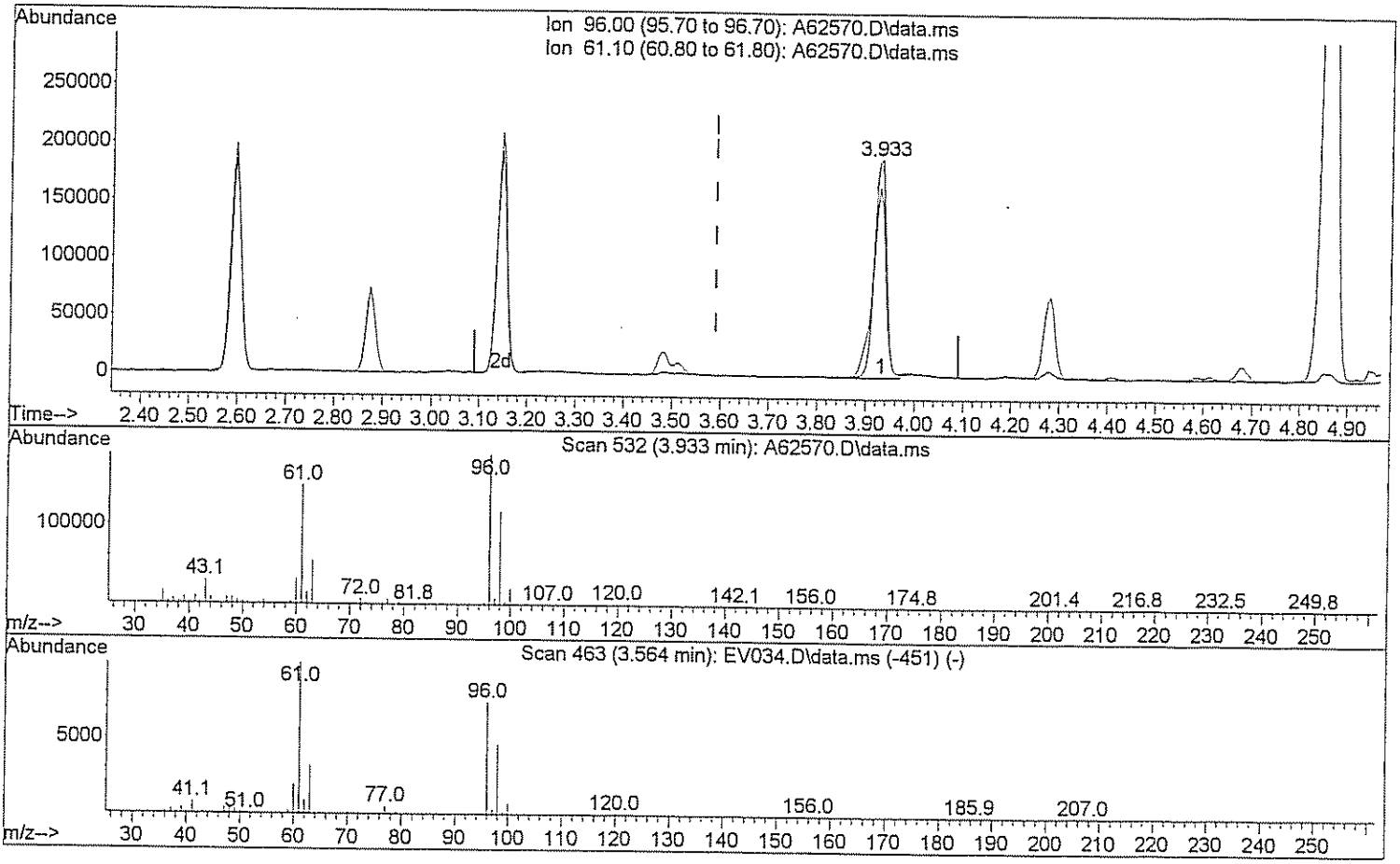
Quant Time: Mar 27 13:11:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62570.D
Acq On : 26 Mar 2009 10:52
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 27 08:40:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62570.D\data.ms

(29) 1,2-dichloroethene(total)

3.933min (+0.342) 58.83 ug/L

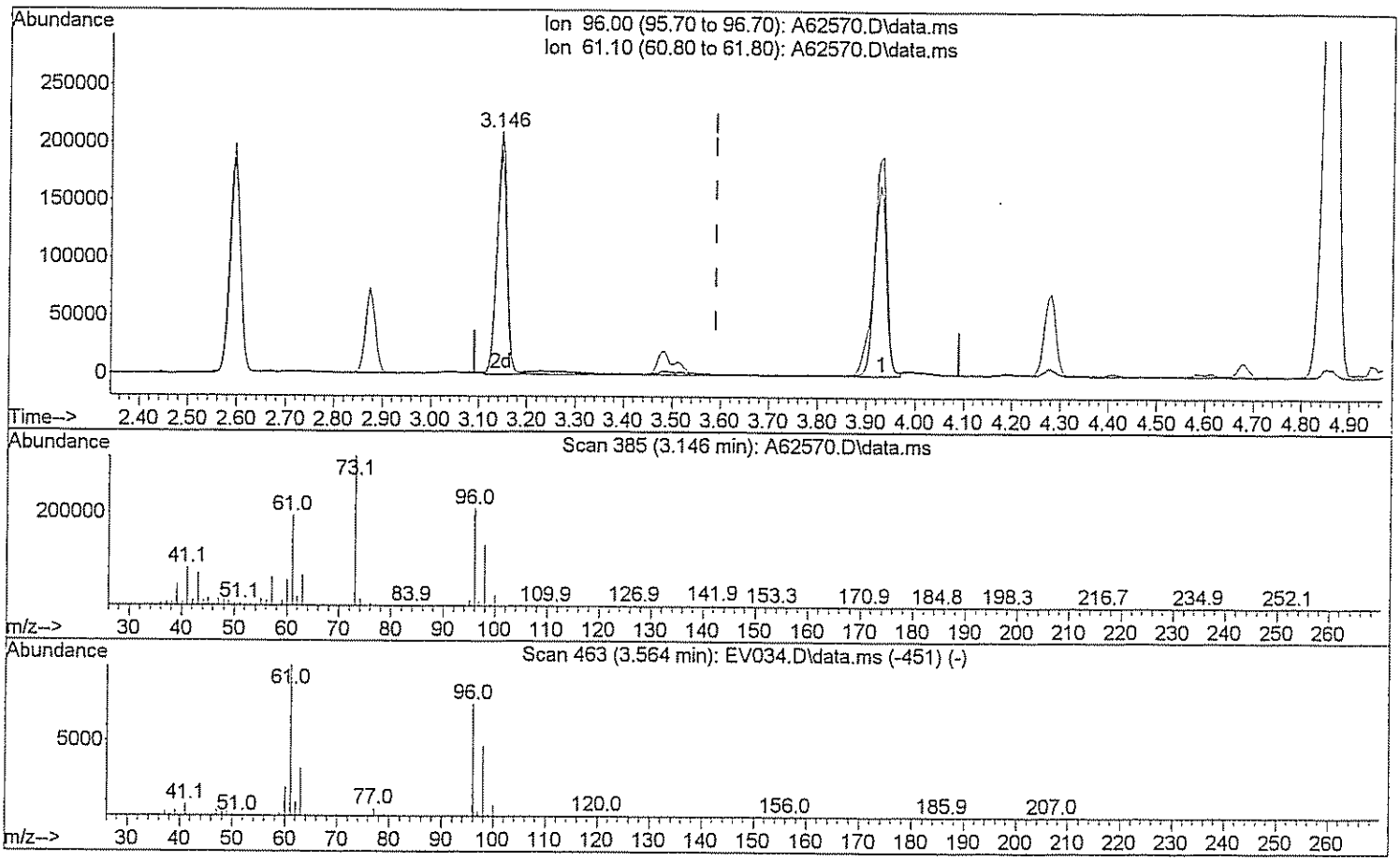
response 327876

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	93.29#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62570.D
Acq On : 26 Mar 2009 10:52
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 27 08:40:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62570.D\data.ms

(29) 1,2-dichloroethene(total)

3.146min (-0.445) 120.27 ug/L m Dm 3/27/09

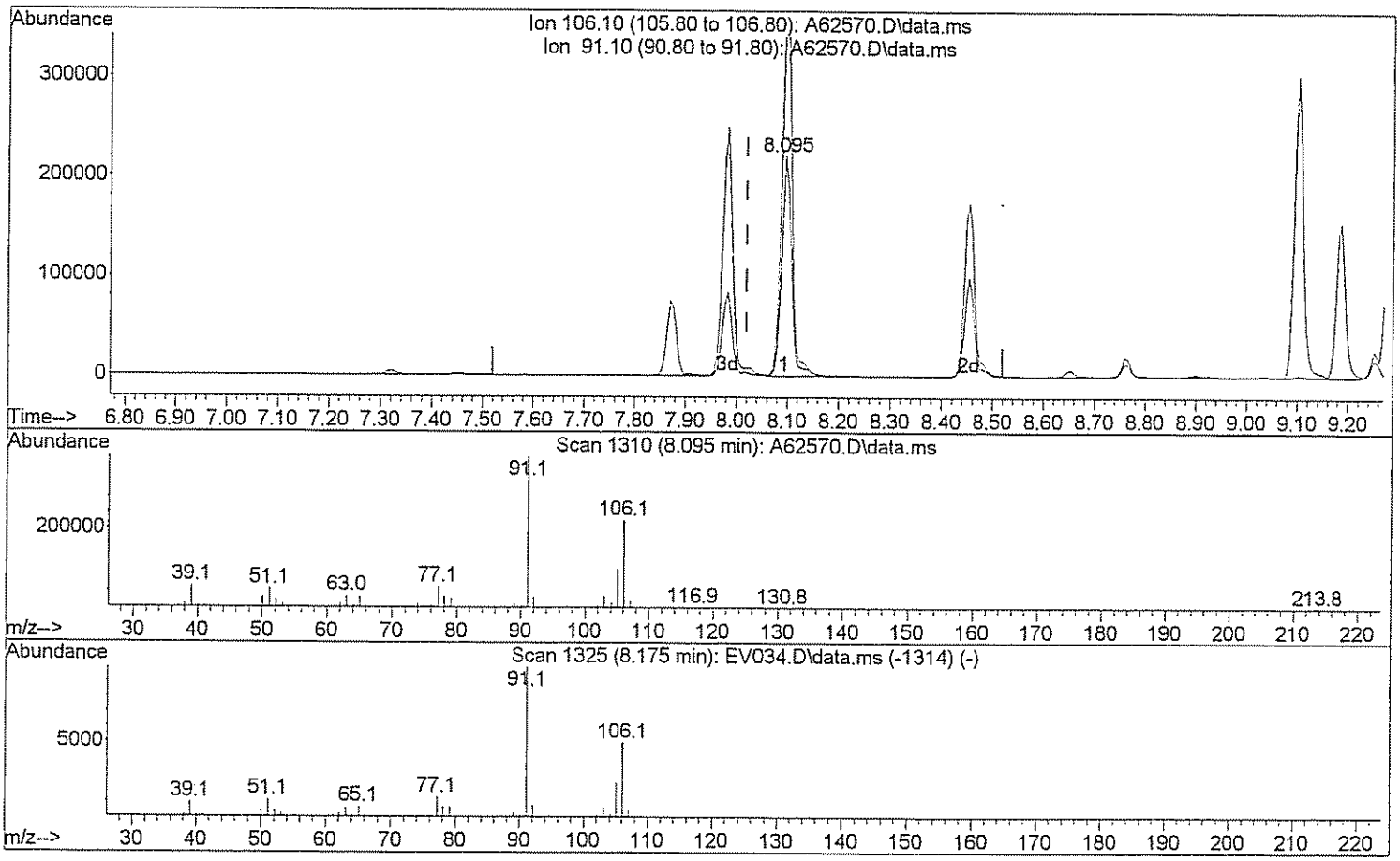
response 670311

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	45.63#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62570.D
Acq On : 26 Mar 2009 10:52
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 27 08:40:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62570.D\data.ms

(71) Xylene (Total)

8.095min (+0.075) 88.71 ug/L

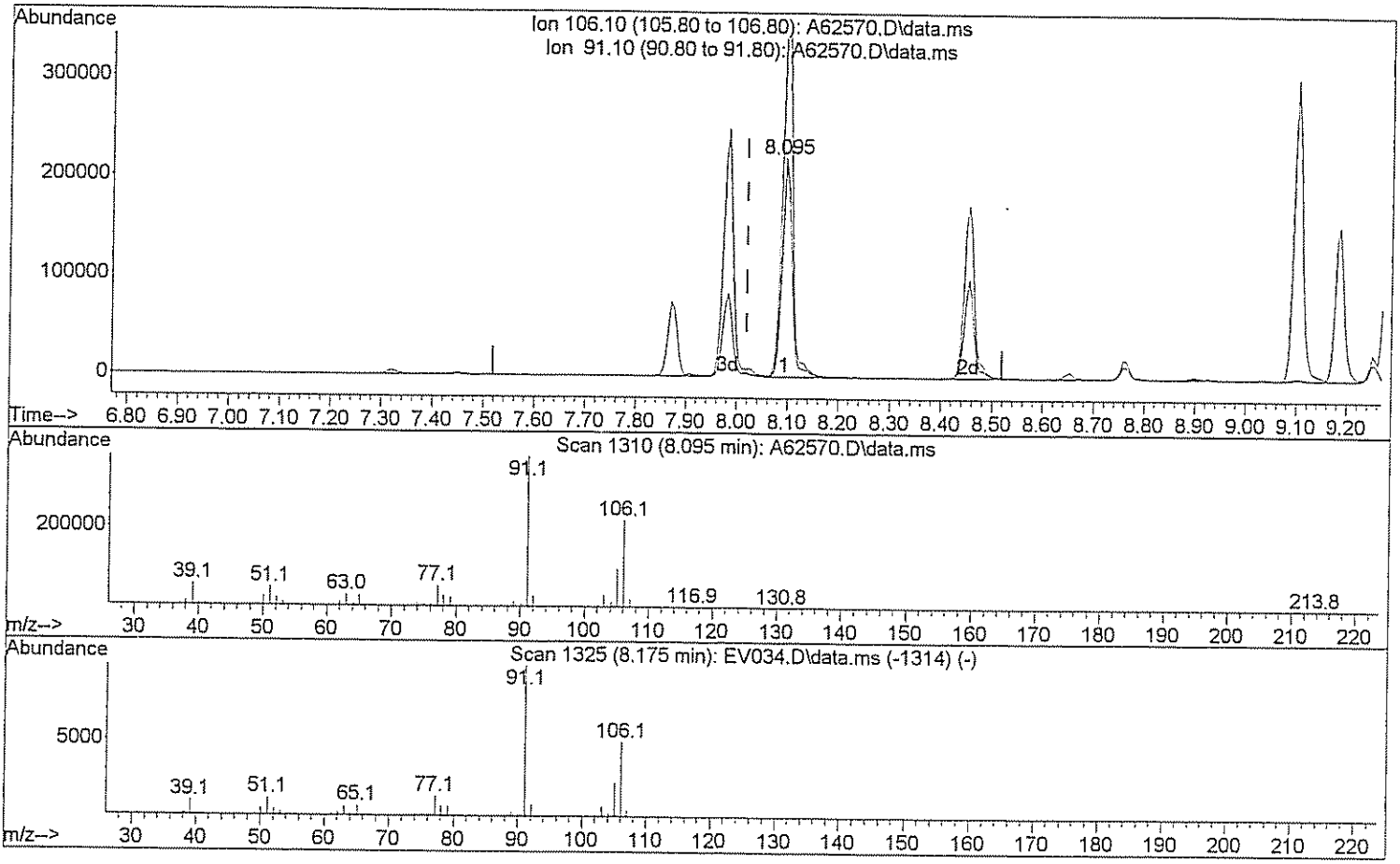
response 289514

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	178.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C2\
Data File : A62570.D
Acq On : 26 Mar 2009 10:52
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 27 08:40:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62570.D\data.ms

(71) Xylene (Total)

8.095min (+0.075) 128.87 ug/L m DW 3/27/09

response 420579

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	122.96#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108899
Sample Volume :	5	Lab File ID :	A62604.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	53	
71-55-6	1,1,1-Trichloroethane	61	
79-34-5	1,1,2,2-Tetrachloroethane	42	
79-00-5	1,1,2-Trichloroethane	50	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	54	
563-58-6	1,1-Dichloropropene	47	
87-61-6	1,2,3-Trichlorobenzene	57	
96-18-4	1,2,3-Trichloropropane	45	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	51	
96-12-8	1,2-Dibromo-3-Chloropropane	40	
95-50-1	1,2-Dichlorobenzene	59	
107-06-2	1,2-Dichloroethane	48	
78-87-5	1,2-Dichloropropane	42	
108-67-8	1,3,5-trimethylbenzene	51	
541-73-1	1,3-Dichlorobenzene	58	
142-28-9	1,3-Dichloropropane	45	
106-46-7	1,4-Dichlorobenzene	60	
594-20-7	2,2-Dichloropropane	51	
78-93-3	2-Butanone	96	
95-49-8	2-Chlorotoluene	58	
591-78-6	2-Hexanone	68	
106-43-4	4-Chlorotoluene	56	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	67	
67-64-1	Acetone	110	
71-43-2	Benzene	44	
108-86-1	Bromobenzene	59	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108899
Sample Volume :	5	Lab File ID :	A62604.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	69	
75-27-4	Bromodichloromethane	45	
75-25-2	Bromoform	48	
74-83-9	Bromomethane	75	
75-15-0	Carbon Disulfide	50	
56-23-5	Carbon Tetrachloride	61	
108-90-7	Chlorobenzene	52	
75-00-3	Chloroethane	47	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	62	
110-82-7	Cyclohexane	51	
124-48-1	Dibromochloromethane	53	
74-95-3	Dibromomethane	49	
75-71-8	Dichlorodifluoromethane	46	
100-41-4	Ethylbenzene	46	
106-93-4	Ethylene DiBromide	46	
76-13-1	Freon 113	64	
87-68-3	Hexachlorobutadiene	53	
98-82-8	Isopropylbenzene	52	
79-20-9	Methyl Acetate	59	
108-87-2	Methylcyclohexane	52	
75-09-2	Methylene Chloride	53	
91-20-3	Naphthalene	53	
135-98-8	Sec-Butylbenzene	51	
100-42-5	Styrene	49	
127-18-4	Tetrachloroethylene	63	
108-88-3	Toluene	51	
79-01-6	Trichloroethene	44	
75-69-4	Trichlorofluoromethane	75	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108899

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108899
Sample Volume :	5	Lab File ID :	A62604.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	35	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	52	
10061-01-5	cis-1,3-Dichloropropene	39	
136777-61-2	m,p-Xylene	97	
104-51-8	n-Butylbenzene	48	
103-65-1	n-Propylbenzene	49	
95-47-6	o-Xylene	51	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	56	
156-60-5	trans-1,2-dichloroethene	58	
10061-02-6	trans-1,3-dichloropropene	45	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62604.D
Acq On : 26 Mar 2009 10:56 pm
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Mar 31 09:27:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	296713	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	274515	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	304718	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	84538	51.57	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.14%			
53) Toluene-d8	6.148	98	282311	46.33	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 92.66%			
75) 4-Bromofluorobenzene	8.881	95	152117	50.30	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.60%			
91) 1,2-Dichlorobenzene-d4	10.085	152	200950	60.91	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 121.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.215	85	31251	46.55	ug/L	95
3) Chloromethane	1.349	50	51874	61.69	ug/L	95
4) Vinyl chloride	1.419	62	60051	47.29	ug/L	97
5) Bromomethane	1.654	94	28440	74.66	ug/L	99
6) Chloroethane	1.723	64	39885	47.37	ug/L	91
7) Trichlorofluoromethane	1.868	101	106644	75.05	ug/L	99
8) Ethyl Ether	2.071	59	53329	48.41	ug/L	97
9) Freon 113	2.200	101	64758	64.33	ug/L	90
10) Acrolein	2.210	56	47029	258.17	ug/L #	74
11) Tert-Butyl alcohol	2.686	59	67463	1180.34	ug/L #	47
12) 1,1-Dichloroethene	2.232	96	58687	53.78	ug/L	87
13) Iodomethane	2.355	142	108736	111.52	ug/L	93
14) Acetonitrile	2.505	40	431859	619.04	ug/L #	1
15) Methylene chloride	2.612	84	70404	52.95	ug/L	98
16) Trans-1,2-dichloroethene	2.772	96	69033	58.17	ug/L	81
17) Isopropyl ether	3.109	45	243063	50.91	ug/L	97
18) 1,1-Dichloroethane	3.125	63	121246	57.38	ug/L	99
19) Acetone	2.317	43	35175	112.46	ug/L #	83
20) Methyl Acetate	4.265	43	37910	59.05	ug/L #	100
21) MTBE	2.756	73	192622	56.09	ug/L	100
22) Carbon disulfide	2.376	76	166741	50.27	ug/L	100
24) Acrylonitrile	2.852	53	90033	274.42	ug/L	100
25) Chloroprene	3.163	53	99083	49.02	ug/L	88
27) 2,2-Dichloropropane	3.564	77	87771	50.86	ug/L #	74
28) Cis-1,2-dichloroethene	3.591	96	72975	51.71	ug/L	98
29) 1,2-dichloroethene(total)	2.772	96	144305m	111.99	ug/L	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62604.D
Acq On : 26 Mar 2009 10:56 pm
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Mar 31 09:27:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
30) Propionitrile	3.746	54	66687	355.10 ug/L	98
31) Bromochloromethane	3.799	128	47334	69.07 ug/L #	59
32) Tetrahydrofuran	3.623	72	13912	39.45 ug/L #	1
33) Chloroform	3.847	83	129978	54.31 ug/L	100
34) Cyclohexane	3.949	56	108119	50.94 ug/L	90
35) 1,1,1-Trichloroethane	3.970	97	111748	61.26 ug/L	98
36) Carbon tetrachloride	4.077	117	103070	61.23 ug/L	99
37) Methylcyclohexane	5.003	83	105915	52.23 ug/L	89
38) Isobutyl Alcohol	4.265	43	37910	401.81 ug/L	98
41) 2-Butanone	3.628	43	71626	95.66 ug/L	96
42) 1,1-Dichloropropene	4.109	75	84552	47.27 ug/L	96
43) Vinyl Acetate	3.152	43	67838	34.63 ug/L	96
44) Benzene	4.291	78	260408	44.01 ug/L	100
45) 1,2-Dichloroethane	4.382	62	89063m	47.64 ug/L	
46) Trichloroethene	4.896	95	66979	44.15 ug/L #	67
47) 1,2-Dichloropropane	5.169	63	65285	42.42 ug/L	97
48) Methyl methacrylate	5.270	69	43746	43.33 ug/L	96
49) Dibromomethane	5.286	93	45616	48.80 ug/L	98
50) Bromodichloromethane	5.442	83	89866	45.40 ug/L #	99
51) 2-Chloroethylvinyl ether	5.784	63	155411	150.56 ug/L #	89
52) Cis-1,3-dichloropropene	5.923	75	100266	39.32 ug/L	95
54) Toluene	6.223	92	163734	50.66 ug/L	98
55) Trans-1,3-dichloropropene	6.576	75	92717	45.34 ug/L	94
56) Ethyl methacrylate	6.624	69	91183	47.62 ug/L	99
57) 1,1,2-Trichloroethane	6.774	83	57713	50.52 ug/L	96
59) 4-Methyl-2-pentanone	6.100	43	142994	67.11 ug/L	92
60) 2-Hexanone	7.068	43	99592	68.18 ug/L	95
61) Tetrachloroethene	6.795	166	101152	62.82 ug/L	99
62) 1,3-Dichloropropane	6.977	76	111243	45.05 ug/L	88
63) Dibromochloromethane	7.186	129	90322	53.28 ug/L	96
64) 1,2-Dibromoethane	7.319	107	69774	45.53 ug/L	97
65) 1-Chlorohexane	7.785	91	102852	40.65 ug/L	95
66) Chlorobenzene	7.806	112	263105	52.57 ug/L #	80
67) 1,1,1,2-Tetrachloroethane	7.908	131	110511	53.04 ug/L	93
68) Ethylbenzene	7.897	91	394529	46.16 ug/L	96
69) m,p-Xylene	8.020	106	343736	97.38 ug/L	84
70) o-Xylene	8.395	106	176929	50.85 ug/L	84
71) Xylene (Total)	8.020	106	523850m	150.09 ug/L	
72) Styrene	8.421	104	289257	49.47 ug/L	98
73) Bromoform	8.598	173	65917	48.39 ug/L	100
74) Isopropylbenzene	8.716	105	399417	51.67 ug/L	97
76) Bromobenzene	8.994	156	130705	59.18 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62604.D
Acq On : 26 Mar 2009 10:56 pm
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 70 Sample Multiplier: 1

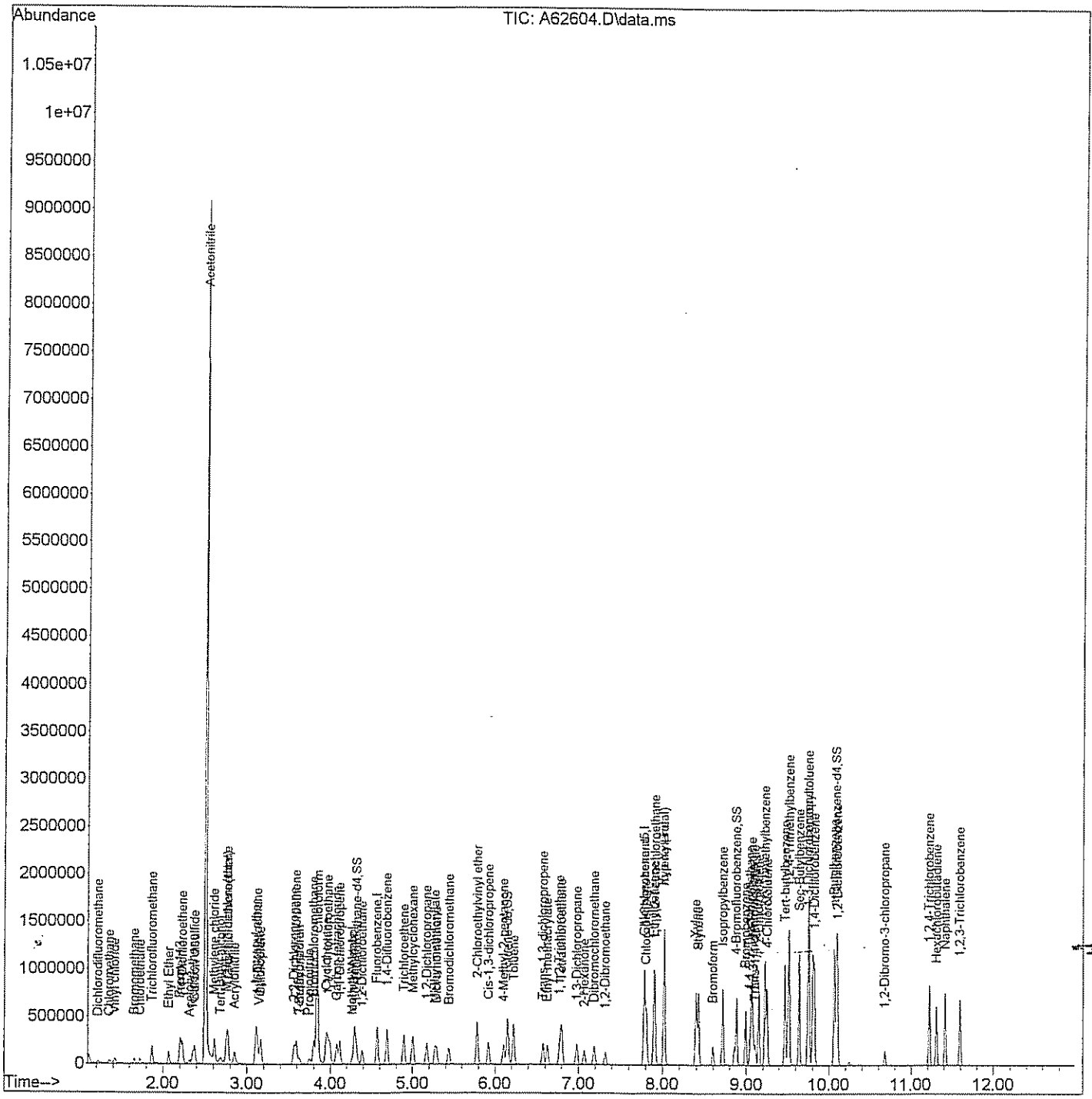
Quant Time: Mar 31 09:27:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
77)	1,1,2,2-Tetrachloroethane	9.047	83	100494	42.56	ug/L		96
78)	1,2,3-Trichloropropane	9.085	110	31809	45.14	ug/L		97
79)	n-Propylbenzene	9.069	91	515592	49.24	ug/L		94
80)	Trans-1,4-dichloro-2-b...	9.106	53	26094	38.89	ug/L	#	1
81)	2-Chlorotoluene	9.149	126	130015	57.91	ug/L	#	82
82)	4-Chlorotoluene	9.251	126	133350	55.85	ug/L		71
83)	1,3,5-Trimethylbenzene	9.224	105	415713	51.26	ug/L		91
84)	Tert-butylbenzene	9.470	119	404469	55.84	ug/L		93
86)	1,2,4-Trimethylbenzene	9.518	105	440080	51.01	ug/L		89
87)	Sec-Butylbenzene	9.641	105	571752	50.98	ug/L		92
88)	1,3-Dichlorobenzene	9.743	146	287261	58.55	ug/L		100
89)	4-Isopropyltoluene	9.753	119	545443	56.67	ug/L		95
90)	1,4-Dichlorobenzene	9.823	146	295816	60.39	ug/L		99
92)	1,2-Dichlorobenzene	10.101	146	279842	59.37	ug/L		98
93)	n-Butylbenzene	10.058	91	438607	48.10	ug/L	#	83
94)	1,2-Dibromo-3-chloropr...	10.679	75	18691	40.08	ug/L	#	44
95)	1,2,4-Trichlorobenzene	11.219	180	186652	57.89	ug/L		98
96)	Hexachlorobutadiene	11.305	225	76578	53.43	ug/L		98
97)	Naphthalene	11.412	128	470116	53.32	ug/L		100
98)	1,2,3-Trichlorobenzene	11.594	180	163655	56.79	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62604.D
Acq On : 26 Mar 2009 10:56 pm
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 70 Sample Multiplier: 1

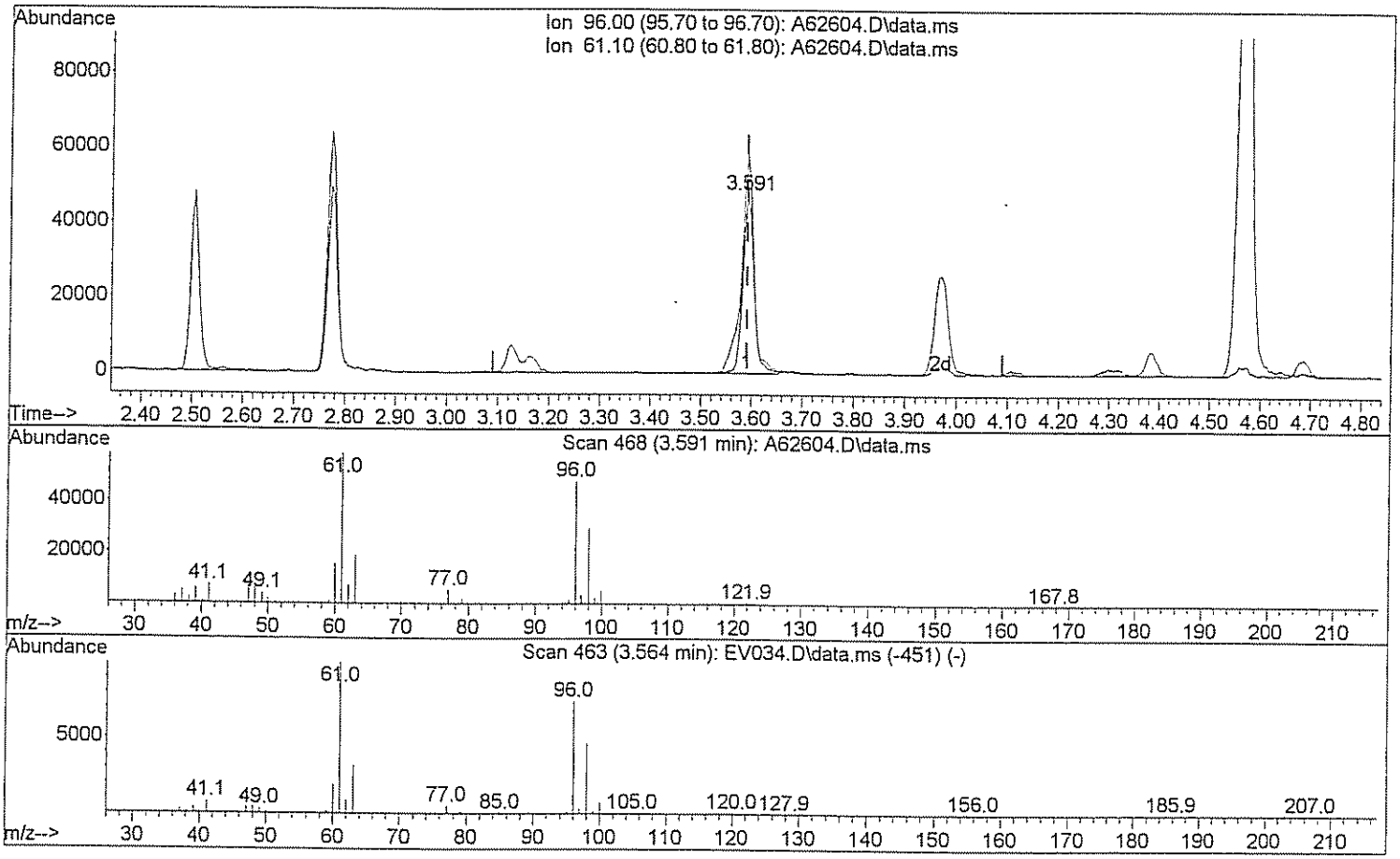
Quant Time: Mar 31 09:27:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62604.D
Acq On : 26 Mar 2009 10:56 pm
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Mar 27 07:40:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62604.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (-0.000) 56.63 ug/L

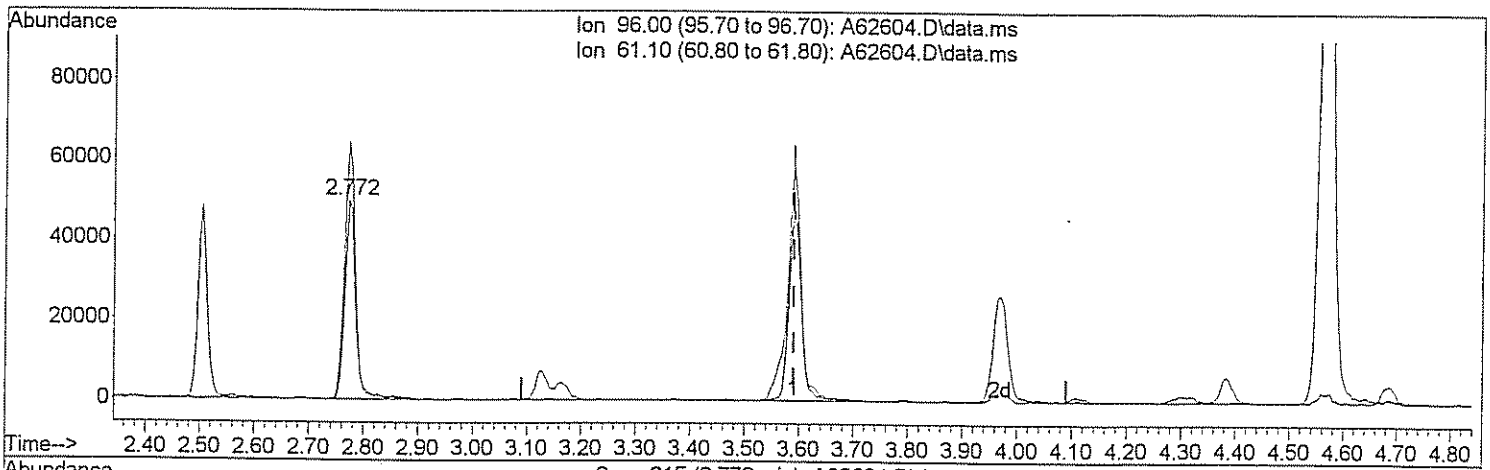
response 72975

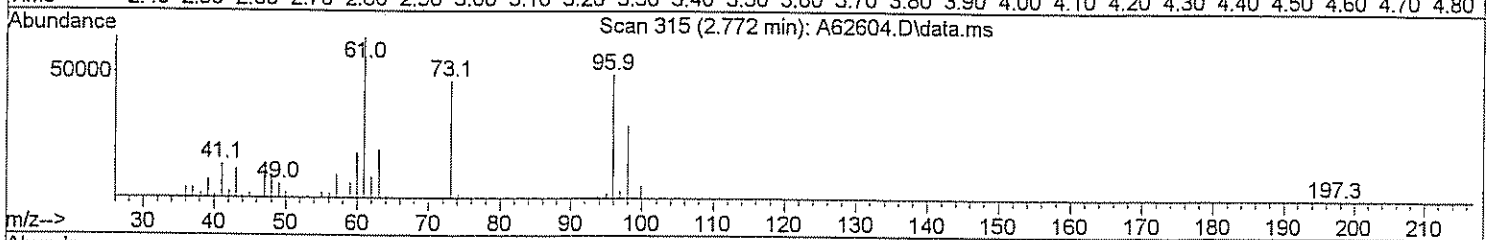
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	141.53
0.00	0.00	0.00
0.00	0.00	0.00

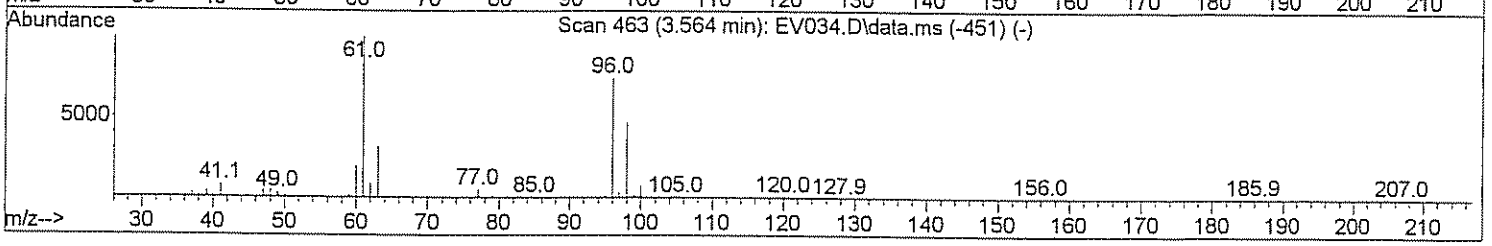
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62604.D
Acq On : 26 Mar 2009 10:56 pm
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Mar 27 07:40:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration







TIC: A62604.D\data.ms

(29) 1,2-dichloroethene(total)

2.772min (-0.819) 111.99 ug/L m DMV 3/27/31/09

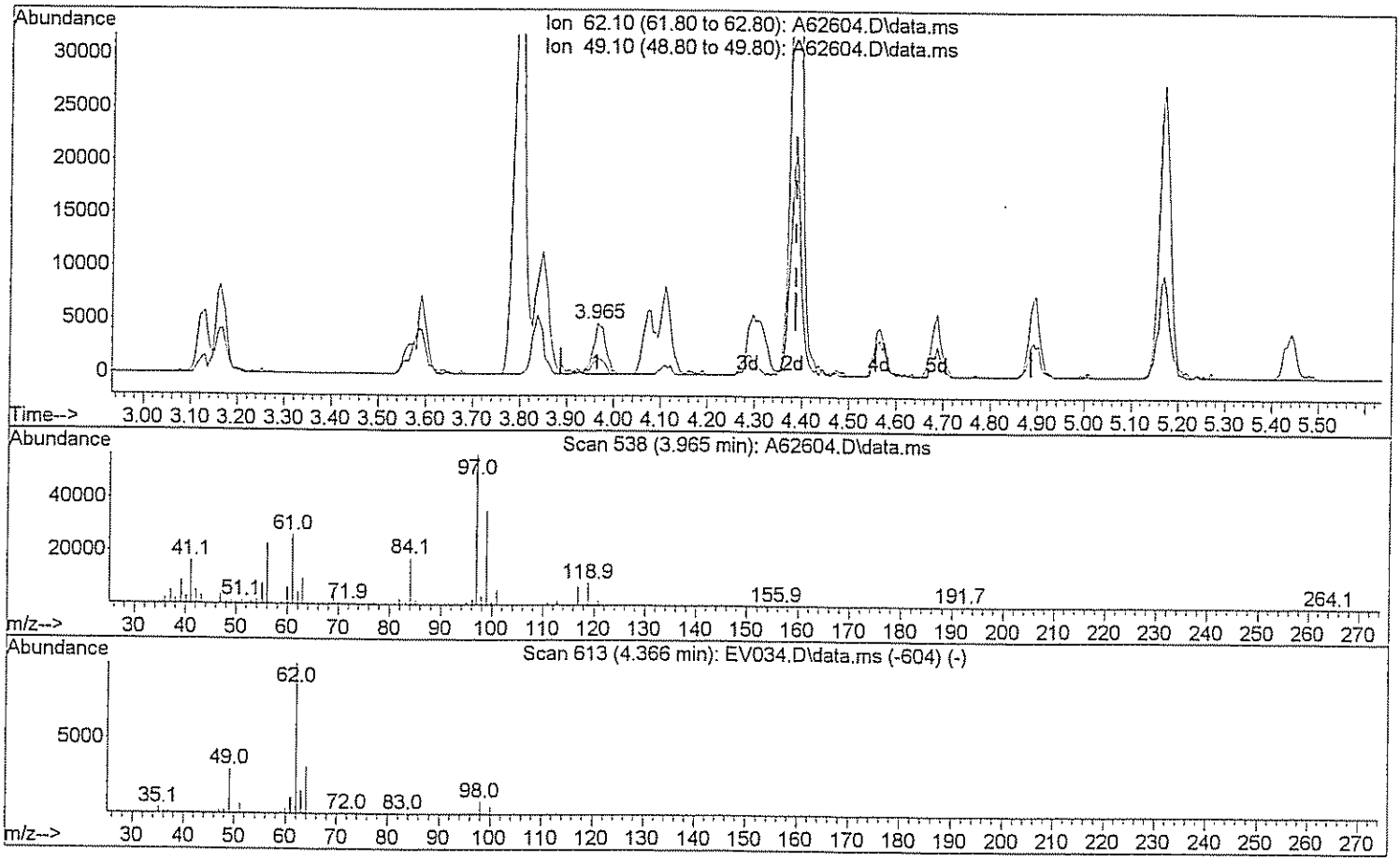
response 144305

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	71.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62604.D
Acq On : 26 Mar 2009 10:56 pm
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Mar 27 07:40:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62604.D\data.ms

(45) 1,2-Dichloroethane

3.965min (-0.423) 4.61 ug/L

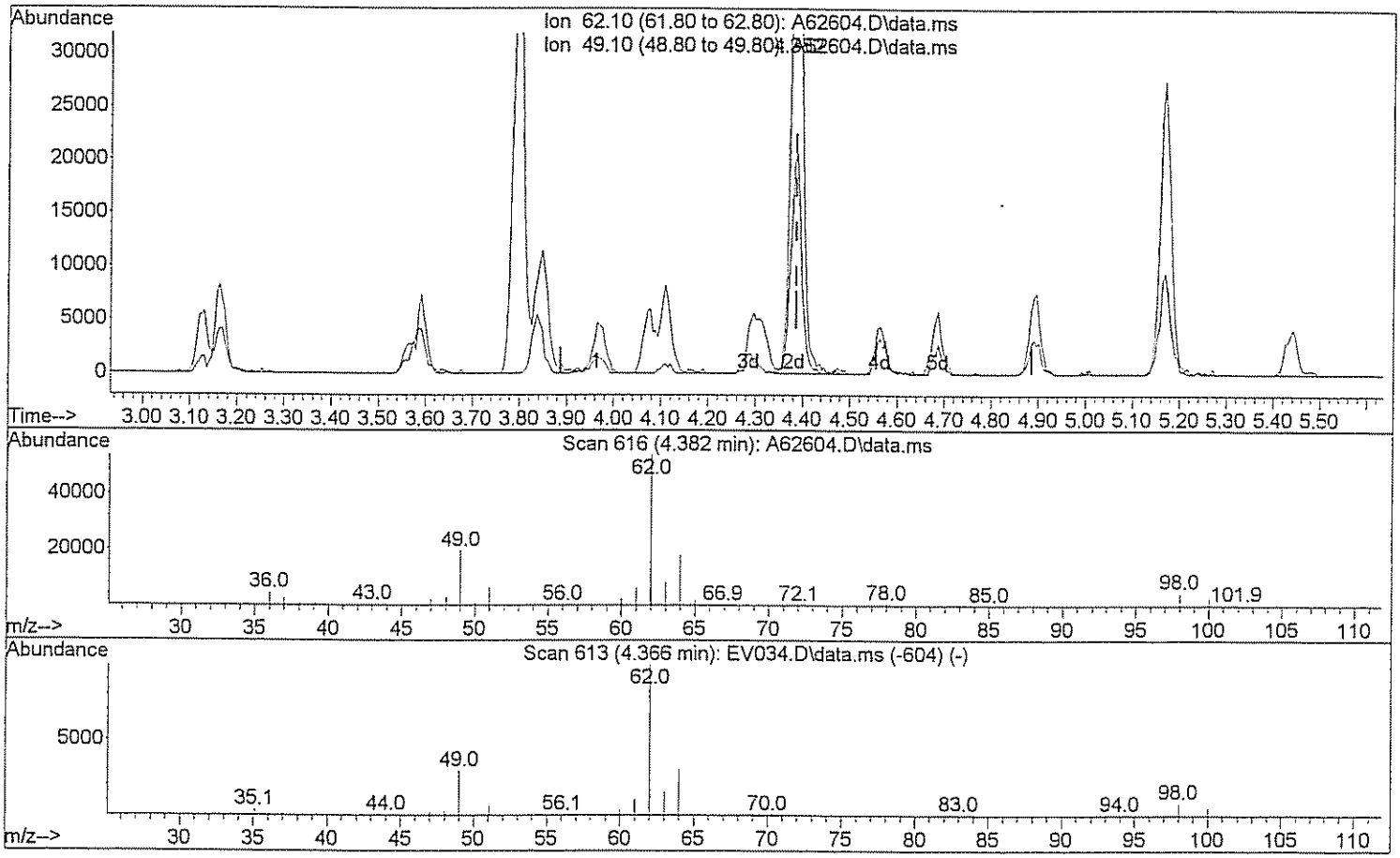
response 8620

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	32.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62604.D
Acq On : 26 Mar 2009 10:56 pm
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Mar 27 07:40:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62604.D\data.ms

(45) 1,2-Dichloroethane

4.382min (-0.005) 47.64 ug/L m Am 3/31/09

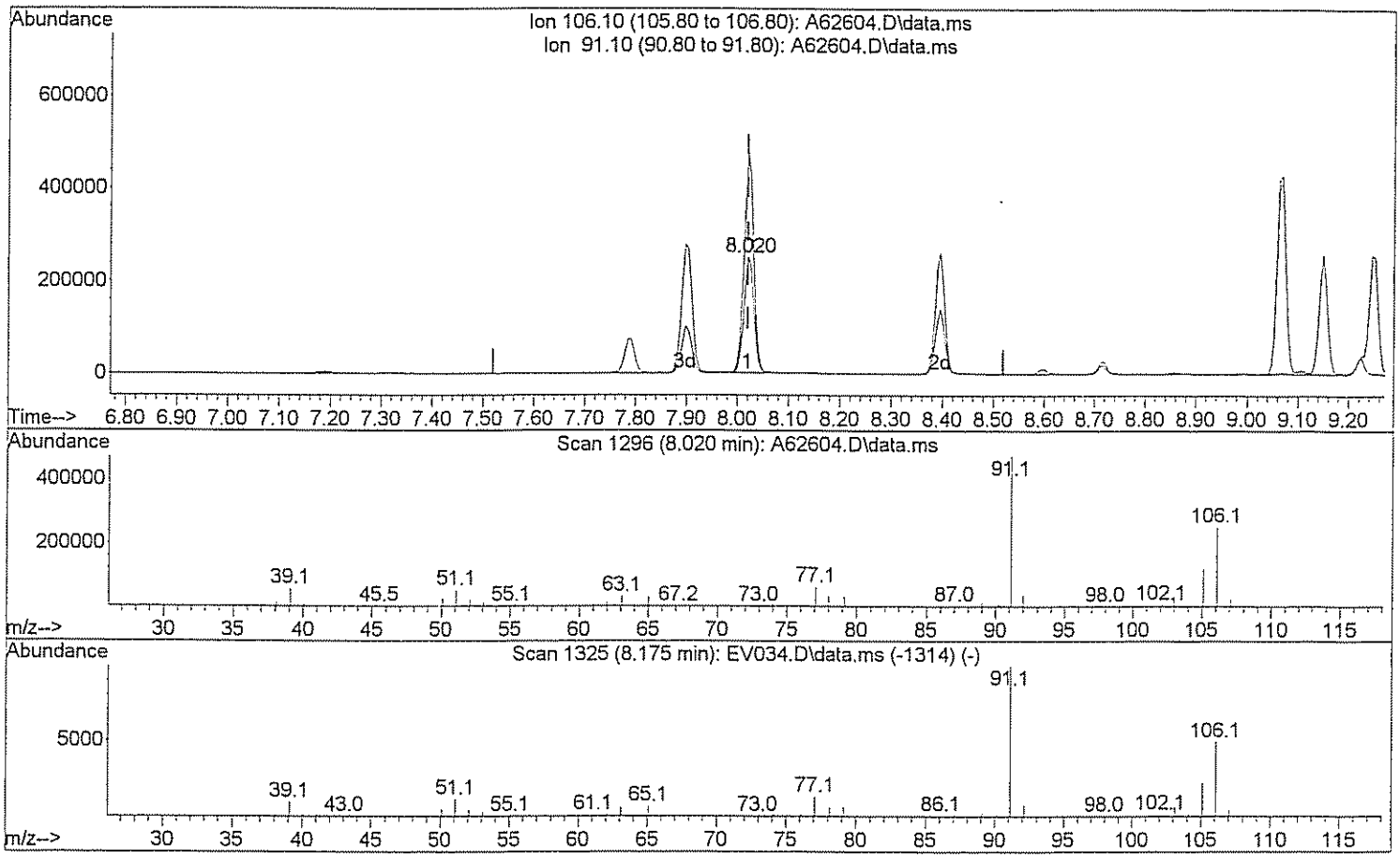
response 89063

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	3.19#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62604.D
Acq On : 26 Mar 2009 10:56 pm
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Mar 27 07:40:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62604.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 98.49 ug/L

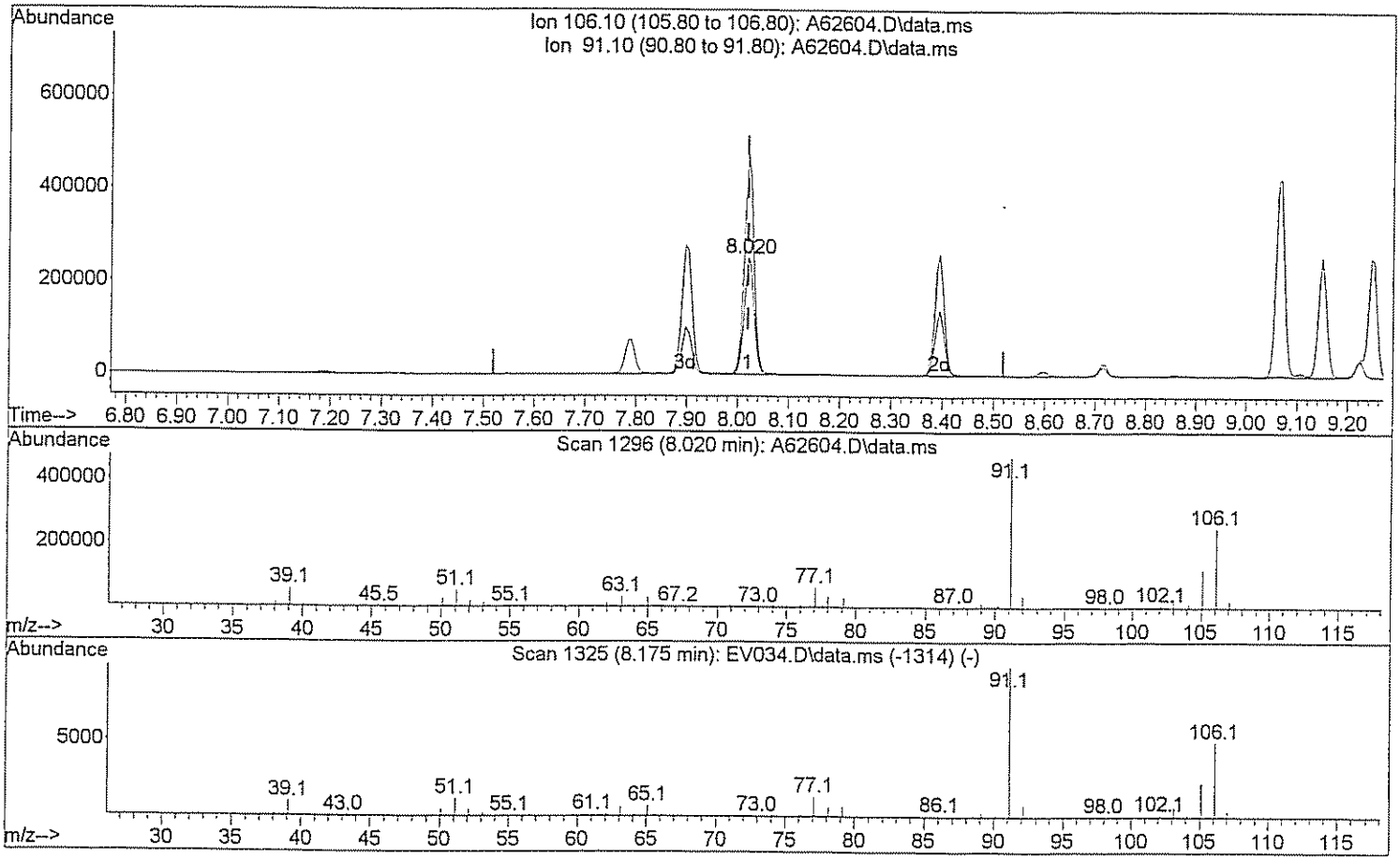
response 343736

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	184.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC2\
Data File : A62604.D
Acq On : 26 Mar 2009 10:56 pm
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Mar 27 07:40:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration



TIC: A62604.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 150.09 ug/L m Am 3/31/09

response 523850

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	120.93#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108905
Sample Volume :	5	Lab File ID :	A62636.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	48	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	45	
79-00-5	1,1,2-Trichloroethane	49	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	55	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	55	
96-18-4	1,2,3-Trichloropropane	44	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	42	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	50	
78-87-5	1,2-Dichloropropane	43	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	57	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	57	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	91	
95-49-8	2-Chlorotoluene	56	
591-78-6	2-Hexanone	71	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	71	
67-64-1	Acetone	120	
71-43-2	Benzene	44	
108-86-1	Bromobenzene	56	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108905
Sample Volume :	5	Lab File ID :	A62636.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	59	
75-27-4	Bromodichloromethane	45	
75-25-2	Bromoform	45	
74-83-9	Bromomethane	75	
75-15-0	Carbon Disulfide	49	
56-23-5	Carbon Tetrachloride	59	
108-90-7	Chlorobenzene	52	
75-00-3	Chloroethane	51	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	62	
110-82-7	Cyclohexane	54	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	47	
75-71-8	Dichlorodifluoromethane	46	
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	48	
76-13-1	Freon 113	65	
87-68-3	Hexachlorobutadiene	54	
98-82-8	Isopropylbenzene	54	
79-20-9	Methyl Acetate	53	
108-87-2	Methylcyclohexane	53	
75-09-2	Methylene Chloride	52	
91-20-3	Naphthalene	49	
135-98-8	Sec-Butylbenzene	54	
100-42-5	Styrene	53	
127-18-4	Tetrachloroethylene	57	
108-88-3	Toluene	55	
79-01-6	Trichloroethene	47	
75-69-4	Trichlorofluoromethane	80	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108905

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108905
Sample Volume :	5	Lab File ID :	A62636.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	36	
75-01-4	Vinyl Chloride	52	
156-59-2	cis-1,2-Dichloroethene	54	
10061-01-5	cis-1,3-Dichloropropene	40	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	53	
103-65-1	n-Propylbenzene	54	
95-47-6	o-Xylene	52	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	53	
156-60-5	trans-1,2-dichloroethene	56	
10061-02-6	trans-1,3-dichloropropene	46	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62636.D
Acq On : 27 Mar 2009 11:06 am
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 31 10:36:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.564	96	520085	50.00	ug/L		0.00
40) 1,4-Difluorobenzene	4.687	114	468985	50.00	ug/L	#	0.00
58) Chlorobenzene-d5	7.779	117	477046	50.00	ug/L		0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4	4.318	65	143646	49.99	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.98%				
53) Toluene-d8	6.148	98	514663	49.44	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 98.88%				
75) 4-Bromofluorobenzene	8.881	95	245405	51.84	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 103.68%				
91) 1,2-Dichlorobenzene-d4	10.085	152	305880	59.23	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.46%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.210	85	54330	46.17	ug/L		93
3) Chloromethane	1.349	50	90747	61.57	ug/L		100
4) Vinyl chloride	1.413	62	118152	52.50	ug/L		99
5) Bromomethane	1.649	94	50251	75.26	ug/L		94
6) Chloroethane	1.718	64	75053	50.85	ug/L		97
7) Trichlorofluoromethane	1.863	101	198021	79.50	ug/L		99
8) Ethyl Ether	2.066	59	96706	50.08	ug/L		97
9) Freon 113	2.200	101	115363	65.38	ug/L		97
10) Acrolein	2.210	56	84885	264.52	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	101975	1096.13	ug/L	#	47
12) 1,1-Dichloroethene	2.232	96	105420	55.11	ug/L		87
13) Iodomethane	2.355	142	192330	112.53	ug/L		100
14) Acetonitrile	2.499	40	830530	673.43	ug/L	#	1
15) Methylene chloride	2.611	84	121888	52.33	ug/L		88
16) Trans-1,2-dichloroethene	2.772	96	117448	56.46	ug/L		80
17) Isopropyl ether	3.109	45	432336	51.66	ug/L		96
18) 1,1-Dichloroethane	3.125	63	210251	56.77	ug/L		99
19) Acetone	2.317	43	66350	118.53	ug/L	#	87
20) Methyl Acetate	4.265	43	53906	52.73	ug/L	#	100
21) MTBE	2.756	73	318532	52.92	ug/L		100
22) Carbon disulfide	2.376	76	283587	48.82	ug/L		100
24) Acrylonitrile	2.852	53	156749	272.93	ug/L		97
25) Chloroprene	3.163	53	189490	53.49	ug/L		92
26) n-Heptane	4.564	71	3969	2.20	ug/L	#	1
27) 2,2-Dichloropropane	3.564	77	162185	53.61	ug/L	#	68
28) Cis-1,2-dichloroethene	3.591	96	134680	54.44	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62636.D
Acq On : 27 Mar 2009 11:06 am
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 31 10:36:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.591	96	259316m	114.81 ug/L	
30) Propionitrile	3.746	54	123256	374.43 ug/L	99
31) Bromochloromethane	3.794	128	70943	59.06 ug/L	78
32) Tetrahydrofuran	3.628	72	23455	37.94 ug/L #	22
33) Chloroform	3.847	83	228345	54.43 ug/L	99
34) Cyclohexane	3.949	56	199798	53.68 ug/L	90
35) 1,1,1-Trichloroethane	3.970	97	191517	59.90 ug/L	98
36) Carbon tetrachloride	4.072	117	172961	58.65 ug/L	99
37) Methylcyclohexane	4.997	83	189637	53.35 ug/L	90
38) Isobutyl Alcohol	4.265	43	53906	325.96 ug/L	91
41) 2-Butanone	3.623	43	115567	91.07 ug/L	94
42) 1,1-Dichloropropene	4.109	75	155126	50.76 ug/L	97
43) Vinyl Acetate	3.152	43	120036	35.87 ug/L #	95
44) Benzene	4.291	78	449672	44.48 ug/L	100
45) 1,2-Dichloroethane	4.388	62	161110m	50.45 ug/L	
46) Trichloroethene	4.890	95	121098	46.72 ug/L	81
47) 1,2-Dichloropropane	5.169	63	112683	42.86 ug/L	97
48) Methyl methacrylate	5.270	69	73042	42.40 ug/L	95
49) Dibromomethane	5.286	93	75594	47.34 ug/L	98
50) Bromodichloromethane	5.436	83	151673	44.85 ug/L #	98
51) 2-Chloroethylvinyl ether	5.784	63	288742	163.73 ug/L	92
52) Cis-1,3-dichloropropene	5.923	75	172954	39.67 ug/L	98
54) Toluene	6.223	92	303034	54.89 ug/L	96
55) Trans-1,3-dichloropropene	6.570	75	161289	46.16 ug/L	98
56) Ethyl methacrylate	6.624	69	140170	42.85 ug/L	95
57) 1,1,2-Trichloroethane	6.774	83	95002	48.68 ug/L	96
59) 4-Methyl-2-pentanone	6.100	43	238033	71.36 ug/L	96
60) 2-Hexanone	7.062	43	163045	71.30 ug/L	96
61) Tetrachloroethene	6.795	166	142813	56.66 ug/L	97
62) 1,3-Dichloropropane	6.977	76	177636	45.95 ug/L	95
63) Dibromochloromethane	7.186	129	135717	51.13 ug/L	96
64) 1,2-Dibromoethane	7.319	107	114801	47.85 ug/L	99
65) 1-Chlorohexane	7.785	91	175331	44.27 ug/L	95
66) Chlorobenzene	7.811	112	407162	51.97 ug/L	87
67) 1,1,1,2-Tetrachloroethane	7.908	131	156797	48.40 ug/L	98
68) Ethylbenzene	7.897	91	667491	49.88 ug/L	96
69) m,p-Xylene	8.020	106	573124	103.71 ug/L	86
70) o-Xylene	8.395	106	284184	52.17 ug/L	90
71) Xylene (Total)	8.020	106	855977m	156.66 ug/L	
72) Styrene	8.421	104	484554	52.93 ug/L	97
73) Bromoform	8.598	173	95468	45.09 ug/L	98
74) Isopropylbenzene	8.716	105	655391	54.16 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62636.D
Acq On : 27 Mar 2009 11:06 am
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 31 10:36:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

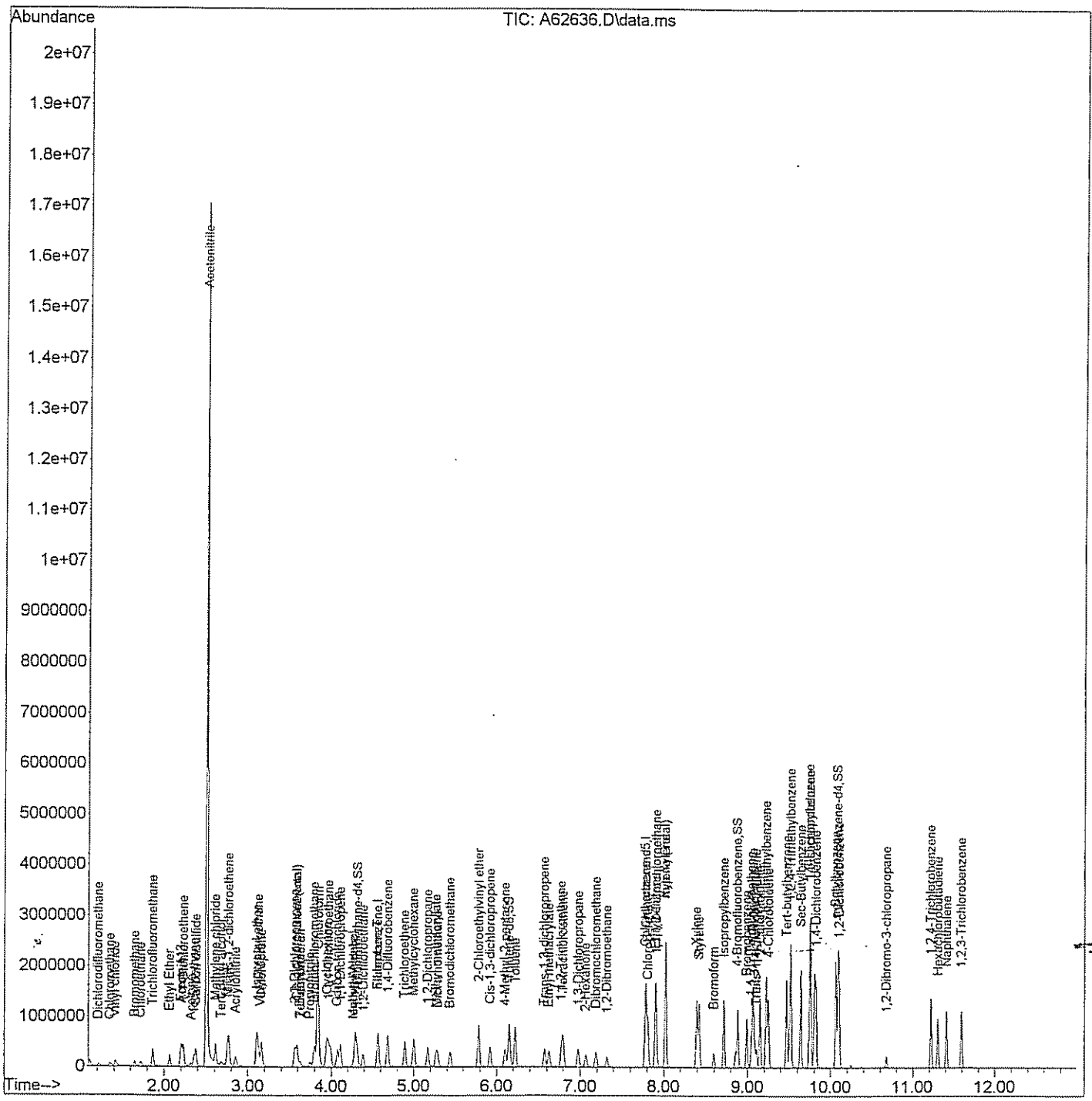
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Bromobenzene	8.994	156	195289	56.48 ug/L	98
77) 1,1,2,2-Tetrachloroethane	9.047	83	167763	45.38 ug/L	97
78) 1,2,3-Trichloropropane	9.085	110	48856	44.29 ug/L	95
79) n-Propylbenzene	9.069	91	883552	53.90 ug/L	97
80) Trans-1,4-dichloro-2-b...	9.106	53	53356	50.80 ug/L #	1
81) 2-Chlorotoluene	9.149	126	196033	55.77 ug/L	90
82) 4-Chlorotoluene	9.250	126	203953	54.56 ug/L	86
83) 1,3,5-Trimethylbenzene	9.224	105	684486	53.91 ug/L	93
84) Tert-butylbenzene	9.470	119	636546	56.14 ug/L	97
86) 1,2,4-Trimethylbenzene	9.518	105	724803	53.67 ug/L	90
87) Sec-Butylbenzene	9.641	105	947981	53.99 ug/L	99
88) 1,3-Dichlorobenzene	9.748	146	440083	57.29 ug/L	99
89) 4-Isopropyltoluene	9.753	119	891151	59.15 ug/L	99
90) 1,4-Dichlorobenzene	9.823	146	436452	56.92 ug/L	100
92) 1,2-Dichlorobenzene	10.101	146	426378	57.78 ug/L	97
93) n-Butylbenzene	10.058	91	757489	53.07 ug/L	93
94) 1,2-Dibromo-3-chloropr...	10.679	75	30303	41.51 ug/L #	73
95) 1,2,4-Trichlorobenzene	11.219	180	285519	56.57 ug/L	94
96) Hexachlorobutadiene	11.305	225	121115	53.98 ug/L	100
97) Naphthalene	11.412	128	677835	49.10 ug/L	100
98) 1,2,3-Trichlorobenzene	11.594	180	248690	55.12 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62636.D
Acq On : 27 Mar 2009 11:06 am
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

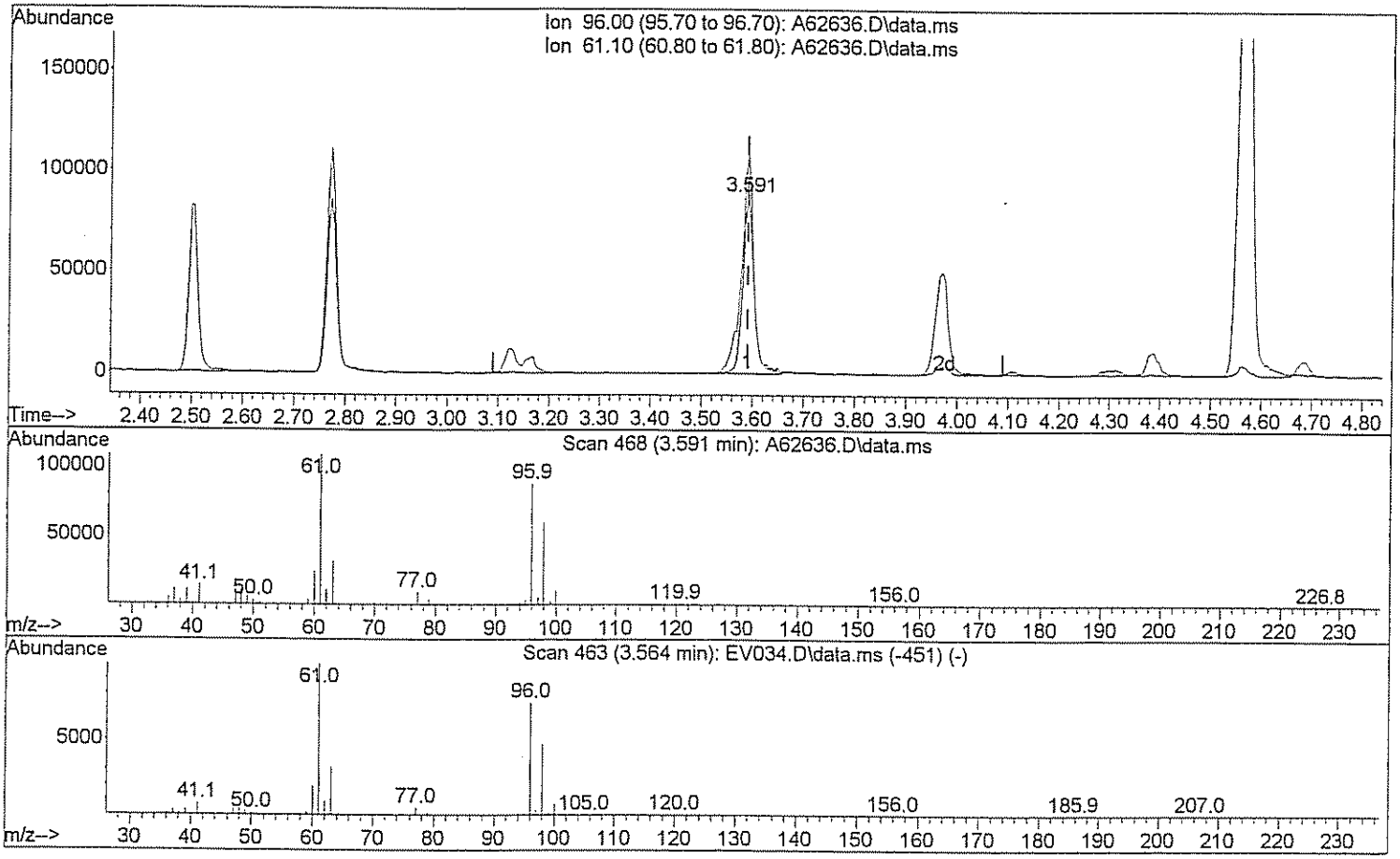
Quant Time: Mar 31 10:36:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62636.D
Acq On : 27 Mar 2009 11:06 am
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 30 08:42:39 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62636.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (-0.001) 59.63 ug/L

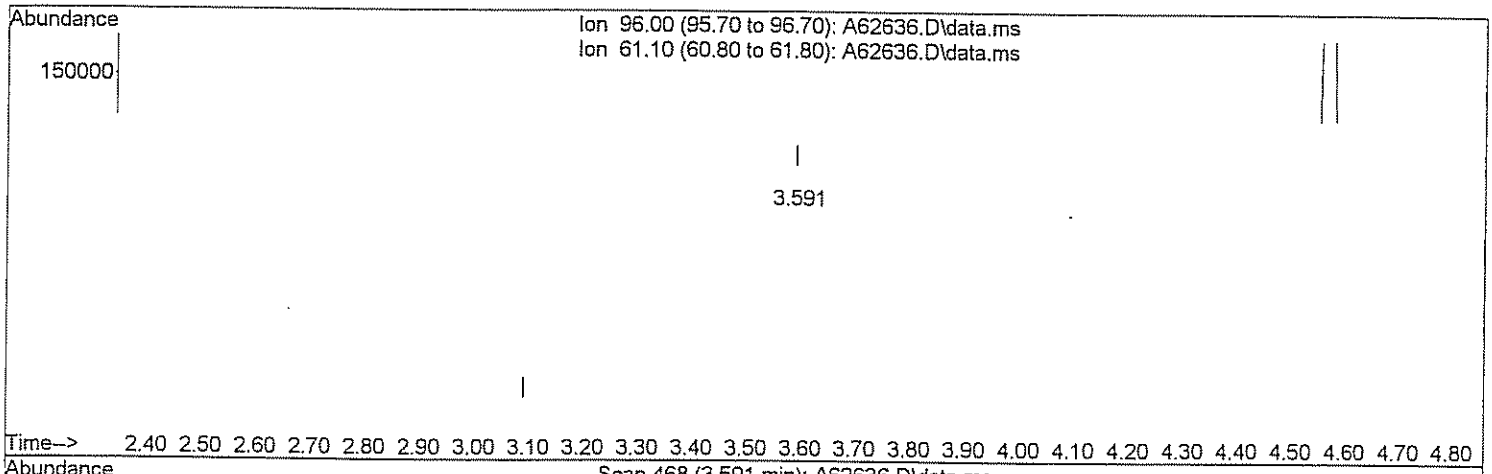
response 134680

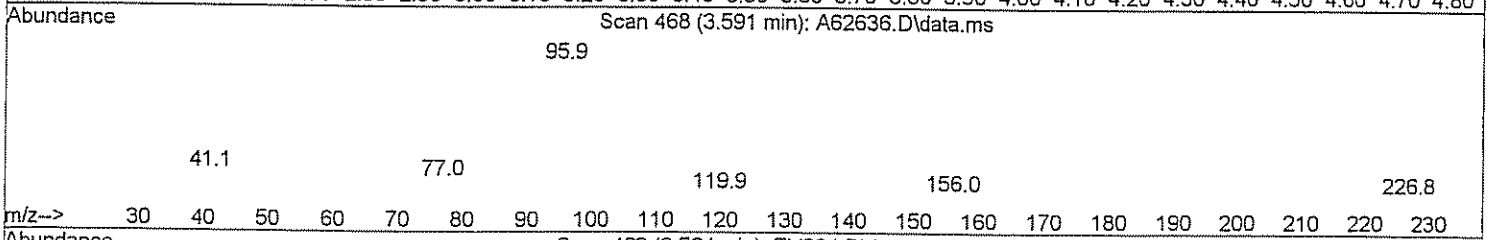
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	138.44
0.00	0.00	0.00
0.00	0.00	0.00

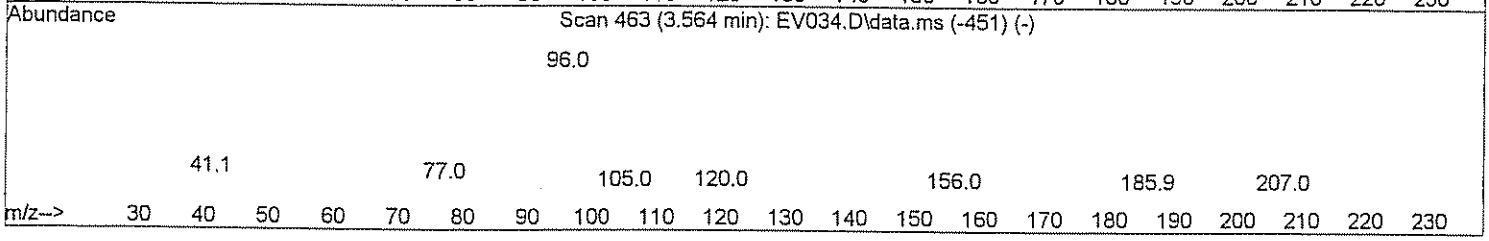
Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62636.D
Acq On : 27 Mar 2009 11:06 am
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 30 08:42:39 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration







TIC: A62636.D\data.ms

(29) 1,2-dichloroethene(total)

3.591min (-0.001) 114.81 ug/L m Dw 3/31/09

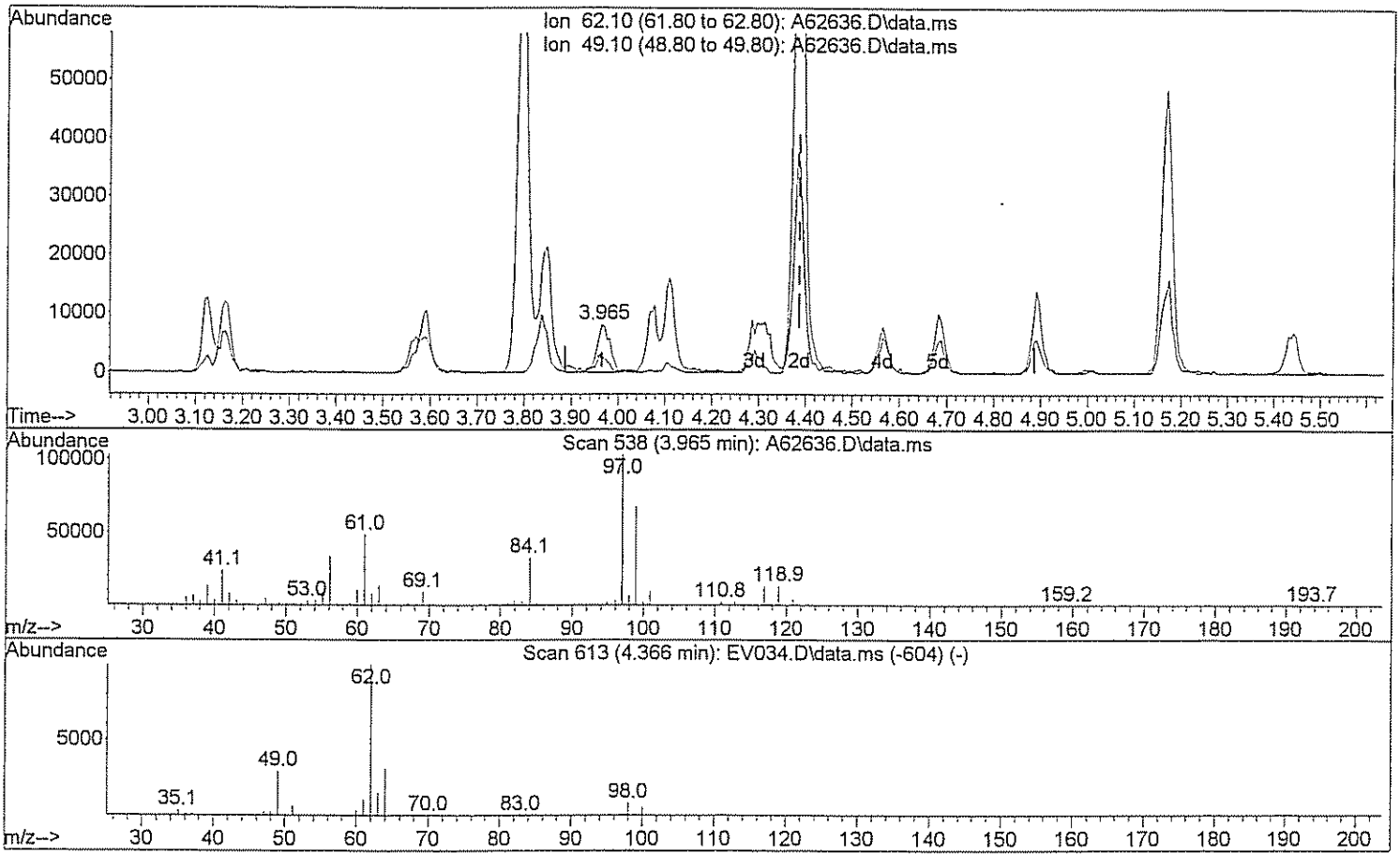
response 259316

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	71.90#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62636.D
Acq On : 27 Mar 2009 11:06 am
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 30 08:42:39 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62636.D\data.ms

(45) 1,2-Dichloroethane

3.965min (-0.423) 4.77 ug/L

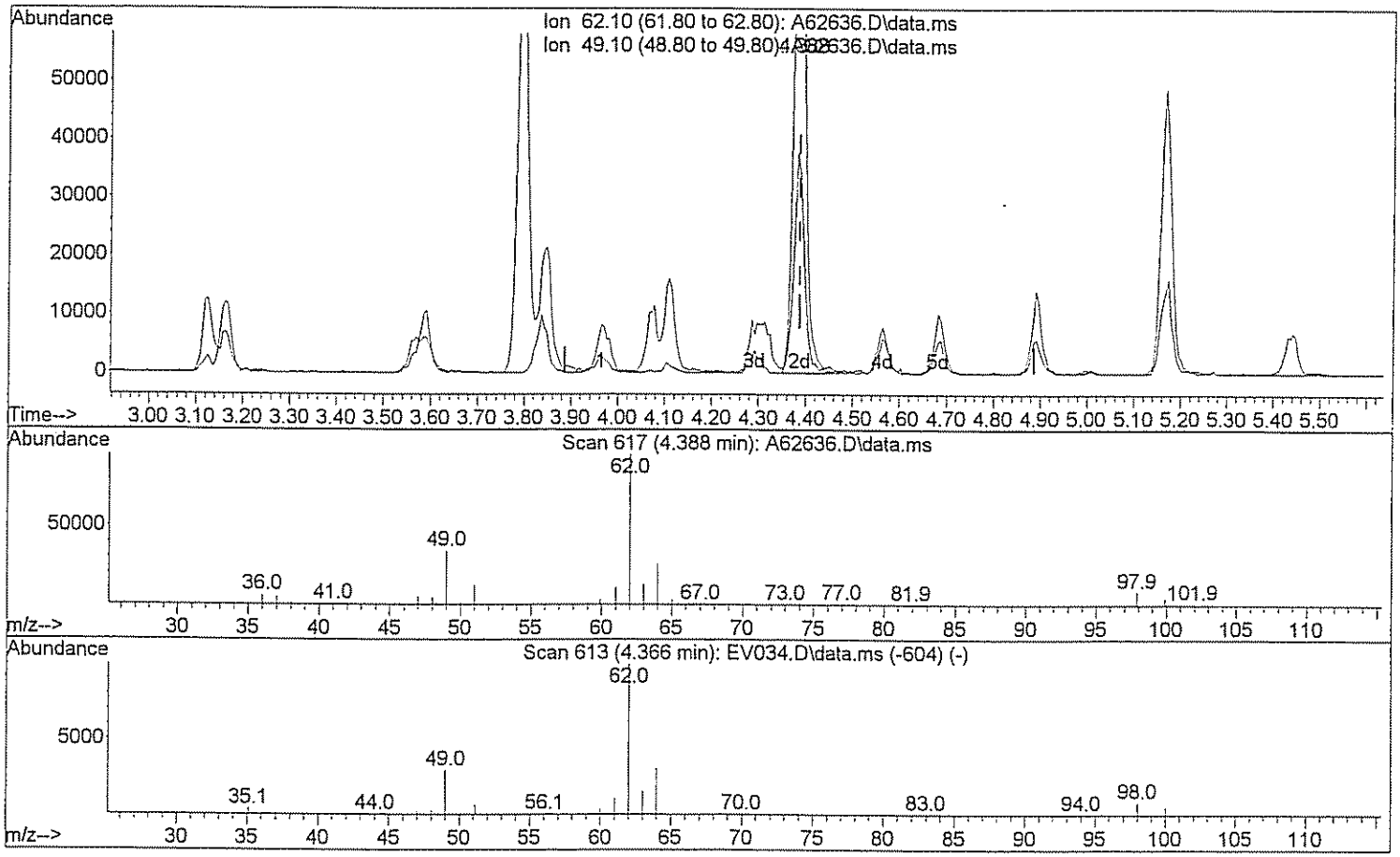
response 15240

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	34.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62636.D
Acq On : 27 Mar 2009 11:06 am
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 30 08:42:39 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62636.D\data.ms

(45) 1,2-Dichloroethane

4.388min (-0.000) 50.45 ug/L m 3/31/09

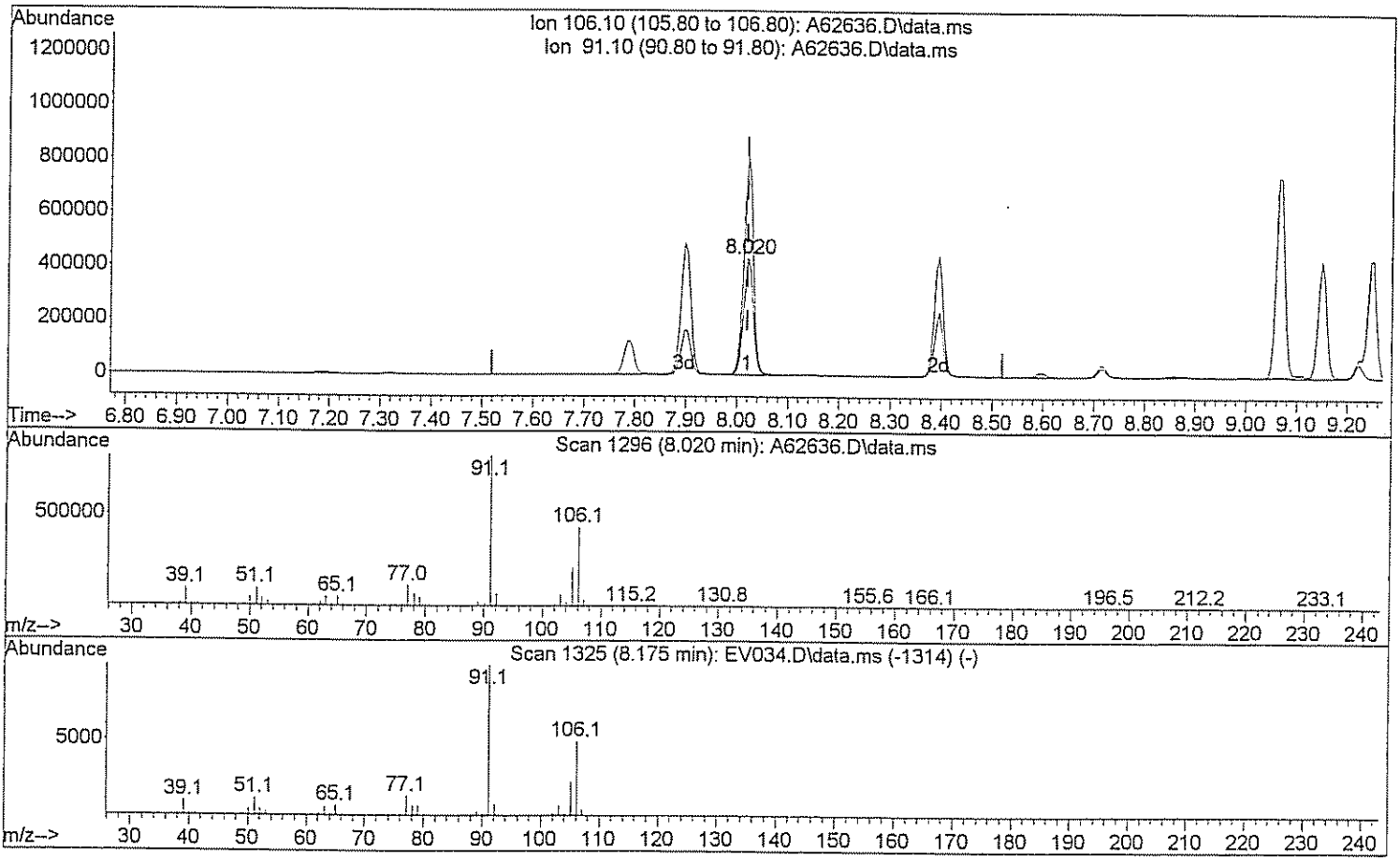
response 161110

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	3.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62636.D
Acq On : 27 Mar 2009 11:06 am
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 30 08:42:39 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62636.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 104.89 ug/L

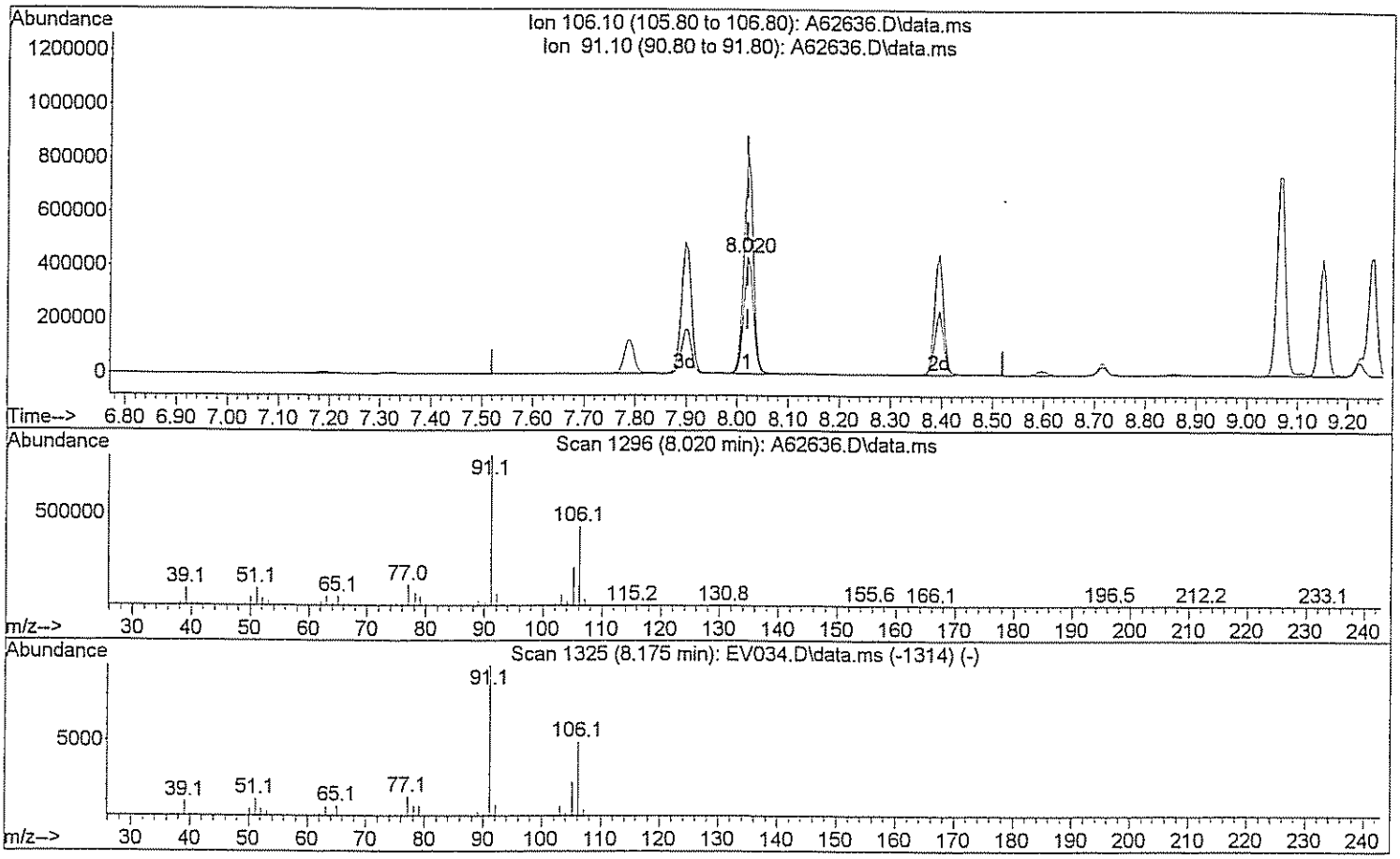
response 573124

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	185.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62636.D
Acq On : 27 Mar 2009 11:06 am
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 30 08:42:39 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



TIC: A62636.D\data.ms

(71) Xylene (Total)

8.020min (-0.000) 156.66 ug/L m AM 3/31/09

response 855977

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	124.49#
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NK Date: 3-12-09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260C2-031009
SEQUENCE FILE:	3-10-09C2
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62206	BFB	3-10-09	07:55	1X	Std	5mL	N/A	BFB	OK
	A 8	CAL01	↓	↓	↓	↓	↓	↓	8260	OK
	A 10	CAL05							↓	OK
	A 12	CAL20								OK
	A 14	CAL50								OK
	A 16	CAL100								OK
	A 18	Rinse								Cleaning
	A 20	CAL200								OK
	A 22	BLK								OK
	A 24	BKS			↓	↓	↓	↓		OK
	A 26	902161-001			100X	H_2O	50uL	L2		OK
	A 28	902161-003			100X	↓	50uL	↓	↓	OK
	A 30	MRL		↓	1X	Std	5mL	N/A		NOT USED
	A 32	902195-003		19:29	↓	H_2O	↓	L2	↓	↓
	A 34	MRL	↓	Outofrange	↓	Std	↓	N/A	↓	↓
	A									
	A									
	A									
	A									
	A									
	A			SM						
	A									
	A									
	A									
	A									
	A									

3/12/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11511	50	3-10-09	2.5uL
mix1	11512	100	↓	↓
mix2	11613	↓		
mix3	11514	500		
Gasmix	11515	100		
RefMix	11516	↓		

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NK Date: 3-31-09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A826002.031009
SEQUENCE FILE:	326-0902
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62566	BFB	3-26-09	08:47	1X	Std	5mL	N/A	BFB	OK
	A 68	CCV50							8260	
	A 70	BK5								bad purge
	72	BLK				↓		↓		
	A 74	903092-007MS				H2O		2		
	A 76	903092-007MSD								
	A 78	903098-013								
	A 80	903098-014								
	A 82	903098-015			↓		↓			↓
	A 84	903098-001			10X		0.5mL			further dl
	A 86	903098-002			10X		↓			OK
	A 88	903098-003			1X		5mL			OK
	A 90	903098-004								dilute
	A 92	903098-005								OK
	A 94	903098-006		↓						dilute
	A 96	903098-007	↓	20:14	↓	↓	↓	↓	↓	dilute
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

AW 3/27/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11552	50	3-24-09	2.5 ul
Mix1	11553	100		
Mix2	11554	↓		
Mix3	11555	500		
GasMix	11556	100		
RefMix	11557	↓		

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: JM Date: 3/31/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	JM

ICAL Date: 3-10-09

METHOD FILE:	A8260C2_031009
SEQUENCE FILE:	326-09AC2
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A G2598	BFB	326-09	20:55	1X	Std	5mL	N/A	BFB	NOT USED
	A 600	BFB		21:35					BFB	OK
	A 602	CCV50							8260	OK
	604	BKS								OK
	A 606	BLK	↓			↓		↓		OK
	A 608	9030918-008	32709		↓	H2O	↓	2		OK
	A 610	9030918-009			50X		100µL			OK
	A 612	9030918-010			1X		5mL			OK
	A 614	9030918-011								OK
	A 616	9030918-012								OK
	A 618	9030918-013 JM 3/31/09								NOT ANALYZED
	A 620	9030918-014								↓
	A 622	9030918-015								
	A 624	FridgeBLK								OK
	A 626	FridgeBLK		↓						OK
	A ↓ 628	FridgeBLK	↓	07:05	↓	↓	↓	↓	↓	OK
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

JM 3/31/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11552	50	32409	2.5µL
Mix1	11553	100		
Mix2	11554	↓		
Mix3	11555 JM 3/31/09	500		
MixGases	11556	100		
Ref/Mix	11557	↓	↓	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: ___ Date: 3/31/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260203100 9
SEQUENCE FILE:	3270902
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62630	BFB	32709	08:38	1X	Std	5ml	N/A	BFB	OK
	A 32	CCV50							8260	NOT USED
	A 34	CCV50								OK
	36	BKS								OK
	A 38	BLK			↓	↓		↓		OK
	A 40	903098-001			1000X	H2O	5ul	↓		OK
	A 42	903098-004			500X		10ul			OK
	A 44	903098-006			25X		250ul			OK
	A 46	903098-007			25X		200ul			OK
	A 48	903098-002MS			1X		0.5ml			OK
	A 50	903098-002MSD			↓					OK
	A 52	903098-012MS			1X		5ml			bad purge
	A 54	903098-012MSD			↓					OK
	A 56	903125-001			1X		↓			OK
	A 58	903125-002		↓	50X		100ul			OK
	A ↓ 60	903125-003	↓	19:35	1X	↓	5ml	↓	↓	OK
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

Δ 3/31/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11552	50	3-24-09	2.5 ul
Mix1	11553	100	—	
Mix2	11554	↓		
Mix3	11555	500		
GasMix	11556	100		
RoffMix	11557	↓	↓	↓

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary (where applicable)

GPL Laboratories, LLLP

Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903098

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-16GW11-0309	6.39	6.40	0.2	15%
Nitrite-N	E300.0	OU1-16GW11-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-16GW11-0309	1.32	1.32	0	15%
Chloride	E300.0	OU1-N4GW09-0309	8.74	8.89	1.7	15%
Nitrite-N	E300.0	OU1-N4GW09-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-N4GW09-0309	BQL	BQL	N/C	15%

RPD - 0 out of 6 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-16GW11-0309	6.39	7.34	1.00	95.0	90 - 110%
Nitrite-N	E300.0	OU1-16GW11-0309	0	1.18	1.00	118*	90 - 110%
Nitrate-N	E300.0	OU1-16GW11-0309	1.32	2.44	1.00	112*	90 - 110%
Chloride	E300.0	OU1-N4GW09-0309	8.74	17.9	10.0	91.6	90 - 110%
Nitrite-N	E300.0	OU1-N4GW09-0309	0	1.34	1.00	134*	90 - 110%
Nitrate-N	E300.0	OU1-N4GW09-0309	0	1.13	1.00	113*	90 - 110%

Recovery - 4 out of 6 outside control limits

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #44805/#44035

LCSL (3/17/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	158	100	85 - 115%
Nitrite-N	732	701	95.8	85 - 115%
Nitrate-N	187	188	101	85 - 115%

Recovery - 1 out of 3 outside Control Limits

LCSH (3/11/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	154	97.5	85 - 115%

Recovery - 0 out of 1 outside Control Limits

LCSL (3/28/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	149	94.3	85 - 115%

Recovery - 0 out of 1 outside Control Limits

B. Sample Data

GPL Laboratories, LLLP

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-067-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	15	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

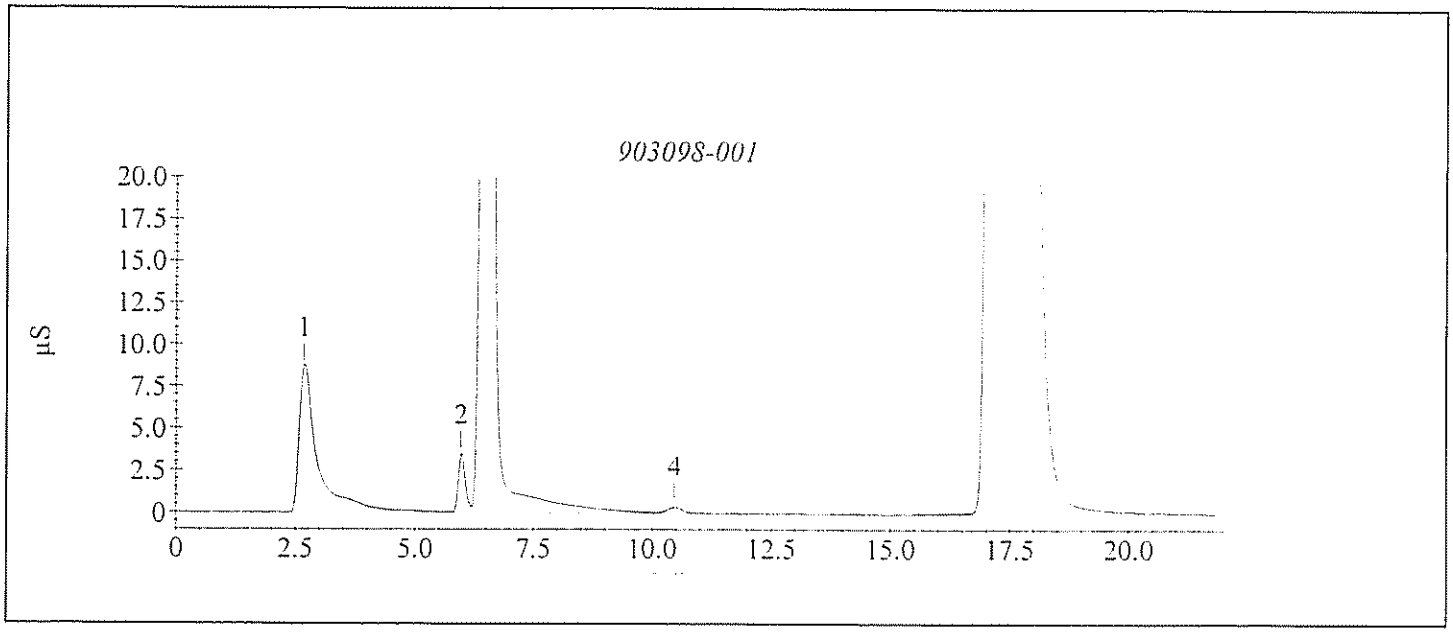
Sample Analysis Report

Sample Name : 903098-001
Data File Name : I:\ICDATA\IC500\090317\090317__011.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917h-300-0.met
Date Time Collected : 3/17/09 2:38:43 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	2268401	85470
3	Chloride Nitrite-N	6.50	15.330	18438102	1232393
4	Bromide Nitrate-N Phosphate-P	10.47	2.104	88498	3627
5	Sulfate	17.27	120.606	102642397	2521957



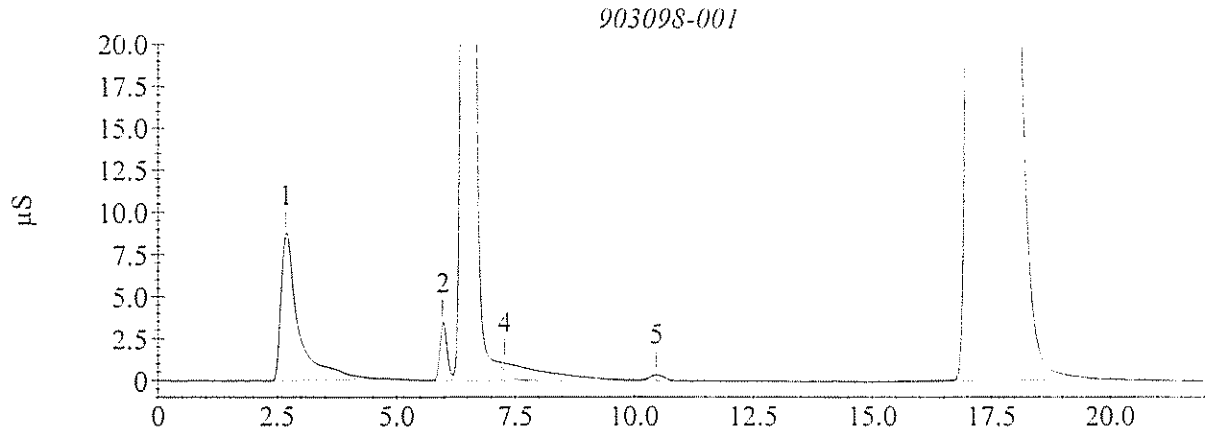
Sample Analysis Report

Sample Name : 903098-001
Data File Name : I:\ICDATA\IC500\090317\090317__011.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 2:38:43 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.899	2268401	85470
3	Chloride Nitrite-N	6.50	14.872	17828741	1232327
5	Bromide Nitrate-N Phosphate-P	10.47	2.078	74150	3363
6	Sulfate	17.27	120.606	102642397	2521957



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-071-1/3
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	6.4	
14797-55-8	Nitrate	1.3	
7727-37-9	Nitrite	0.10	U

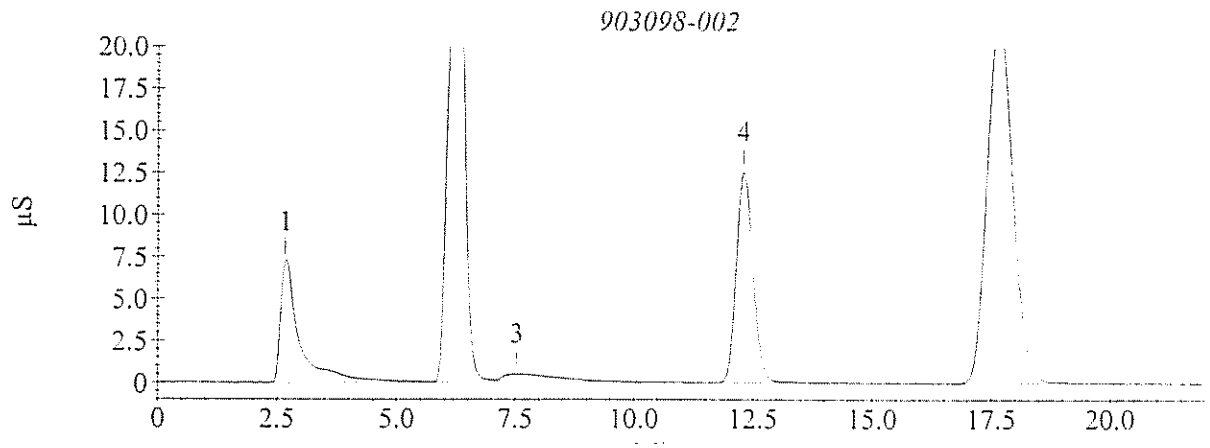
Sample Analysis Report

Sample Name : 903098-002
Data File Name : I:\ICDATA\IC500\090317\090317__017.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/17/09 5:21:15 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.606	2032723	71416
2	Chloride	6.30	7.668	6553226	266313
	Nitrite-N				
	Bromide				
4	Nitrate-N	12.30	1.324	3100669	124560
	Phosphate-P				
5	Sulfate	17.63	13.193	8096893	213954



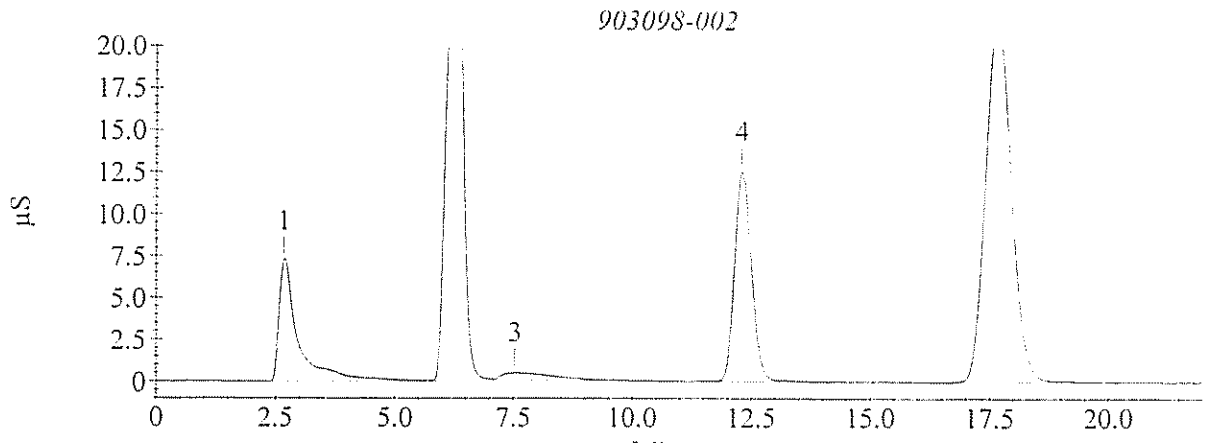
Sample Analysis Report

Sample Name : 903098-002
Data File Name : I:\ICDATA\IC500\090317\090317__017.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 5:21:15 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.752	2032723	71416
2	Chloride	6.30	6.388	6553226	266313
	Nitrite-N				
	Bromide				
4	Nitrate-N	12.30	2.090	3100669	124560
	Phosphate-P				
5	Sulfate	17.63	11.106	8096893	213954



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-058-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	13	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

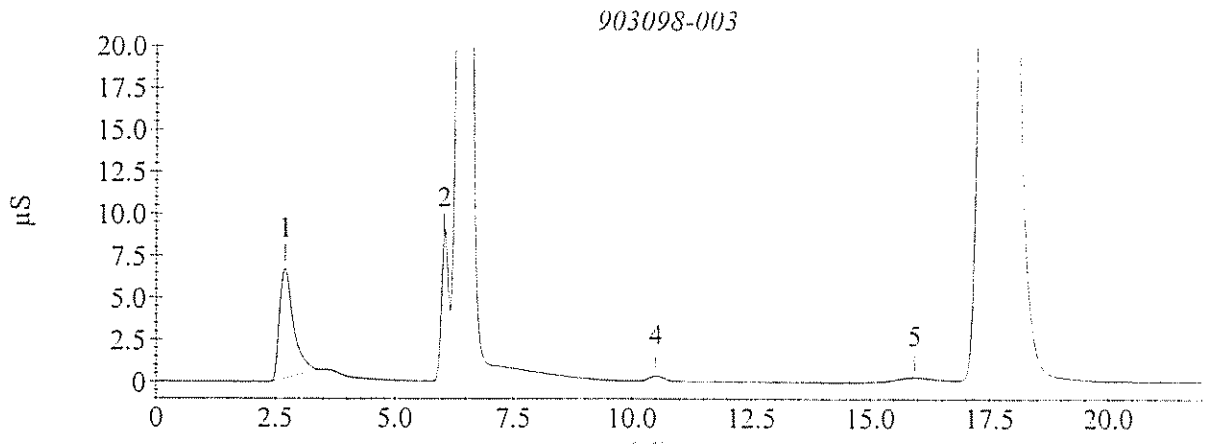
Sample Analysis Report

Sample Name : 903098-003
Data File Name : I:\ICDATA\IC500\090317\090317__020.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 6:36:35 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.067	1332680	64895
3	Chloride Nitrite-N	6.47	18.352	15707038	879026
4	Bromide Nitrate-N	10.50	0.221	74357	3187
5	Phosphate-P	15.93	0.252	167509	2945
6	Sulfate	17.57	68.539	42125344	1171250



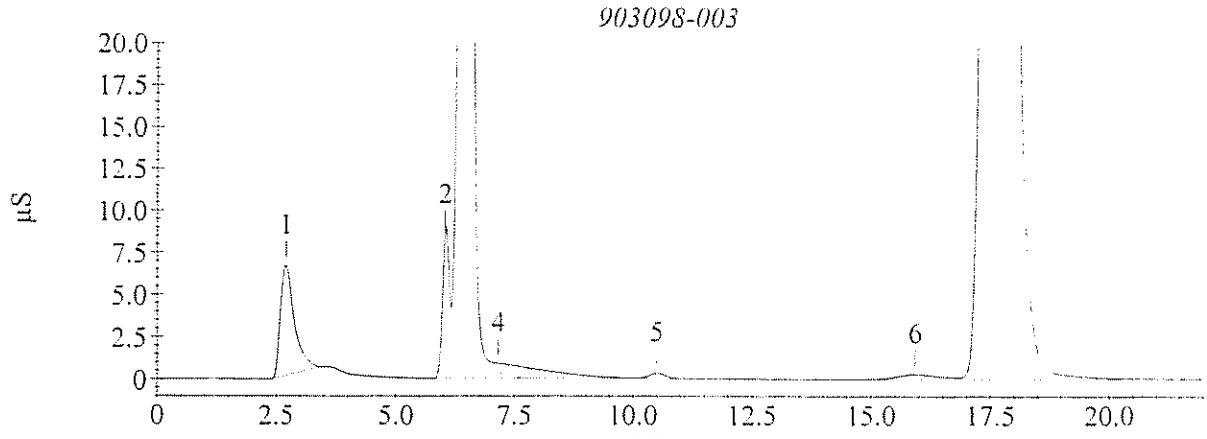
Sample Analysis Report

Sample Name : 903098-003
Data File Name : I:\ICDATA\IC500\090317\090317__020.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 6:36:35 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.317	1332680	64895
3	Chloride	6.47	12.848	15139796	878979
	Nitrite-N				
5	Bromide	10.50	2.066	67328	3070
	Nitrate-N				
	Phosphate-P				
7	Sulfate	17.57	50.517	42125344	1171250



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-059-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	15	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

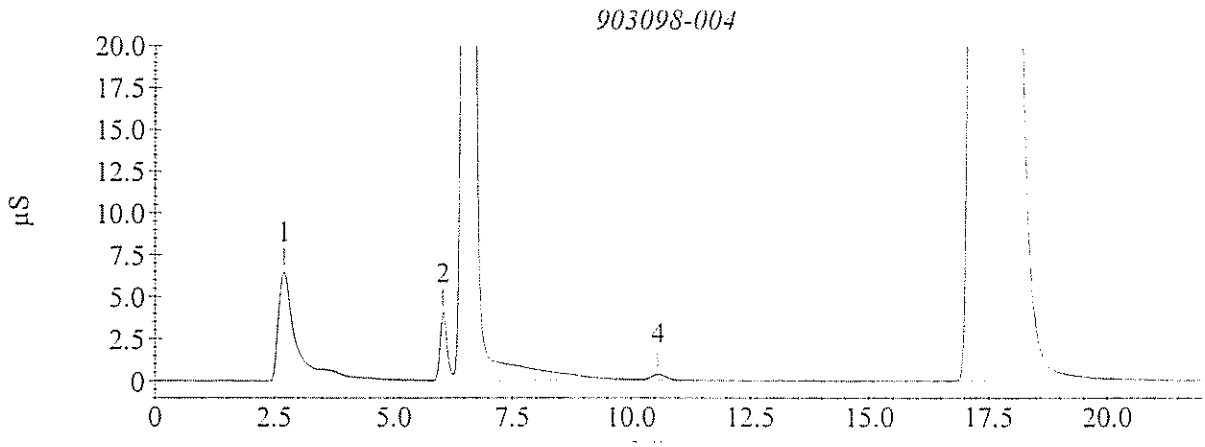
Sample Analysis Report

Sample Name : 903098-004
Data File Name : I:\ICDATA\IC500\090317\090317__021.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 7:01:40 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.425	1797617	64324
3	Chloride Nitrite-N	6.57	21.735	18605334	1335024
4	Bromide Nitrate-N Phosphate-P	10.57	0.233	78892	3560
5	Sulfate	17.37	168.499	103583504	2629995



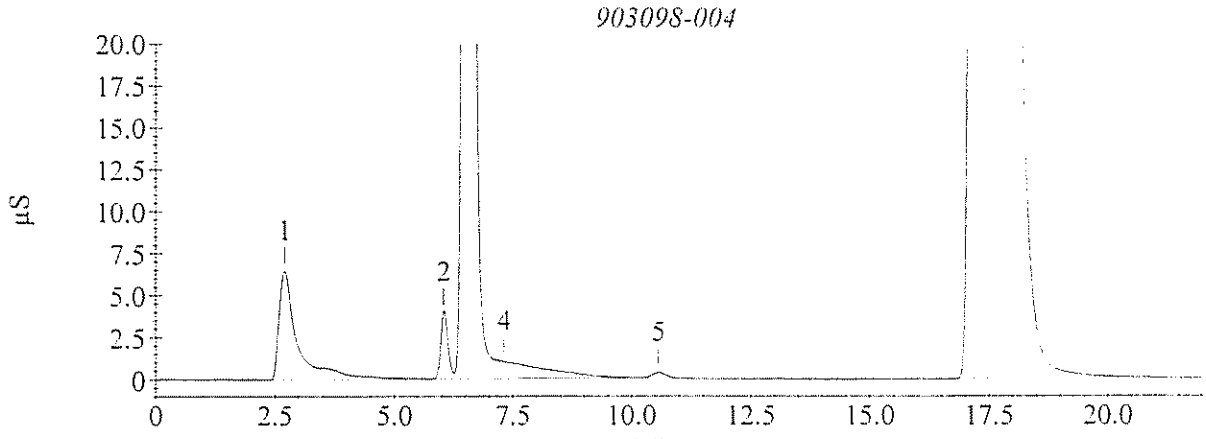
Sample Analysis Report

Sample Name : 903098-004
Data File Name : I:\ICDATA\IC500\090317\090317__021.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 7:01:40 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.596	1782676	64303
3	Chloride	6.57	14.962	17949006	1334777
	Nitrite-N				
5	Bromide	10.57	2.063	65982	3260
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.37	121.696	103583504	2629995



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-060-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	6.1	
14797-55-8	Nitrate	0.56	
7727-37-9	Nitrite	0.10	U

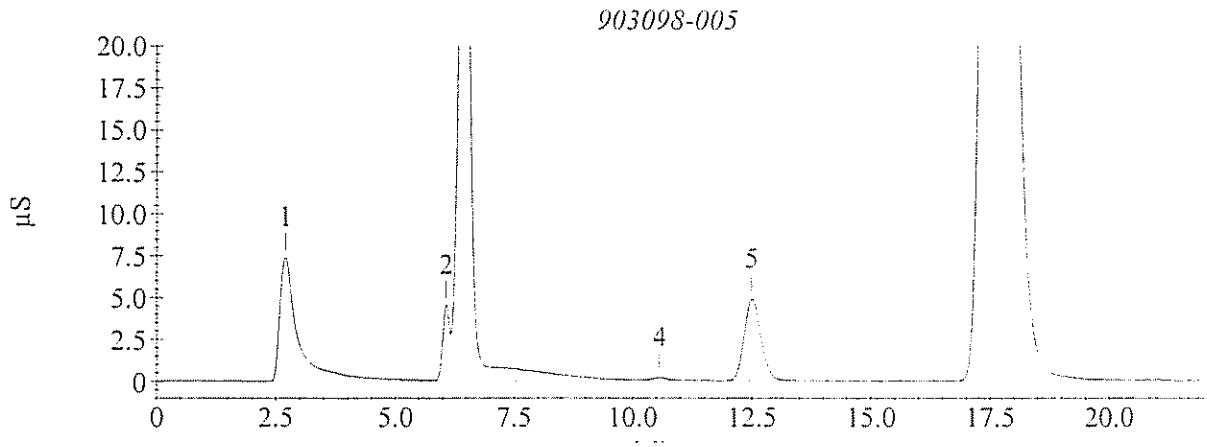
Sample Analysis Report

Sample Name : 903098-005
Data File Name : I:\ICDATA\IC500\090317\090317__005.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\080917l-300-0.met
Date Time Collected : 3/17/09 12:08:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.608	2035002	73634
3	Chloride	6.43	7.953	6797762	348761
	Nitrite-N				
4	Bromide	10.57	0.118	36607	1506
5	Nitrate-N	12.50	0.556	1206745	48466
6	Phosphate-P	17.57	49.856	39054741	1062949
	Sulfate				



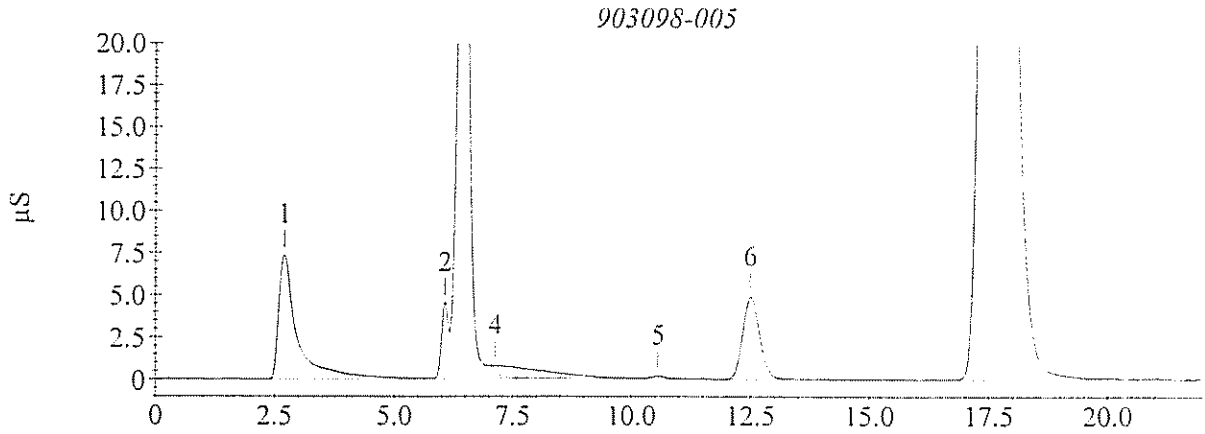
Sample Analysis Report

Sample Name : 903098-005
Data File Name : I:\ICDATA\IC500\090317\090317__005.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 12:08:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.739	2011800	73610
3	Chloride	6.43	6.143	6228317	348493
	Nitrite-N				
	Bromide				
6	Nitrate-N	12.50	1.538	1206745	48466
	Phosphate-P				
7	Sulfate	17.57	46.960	39054741	1062949



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-061-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

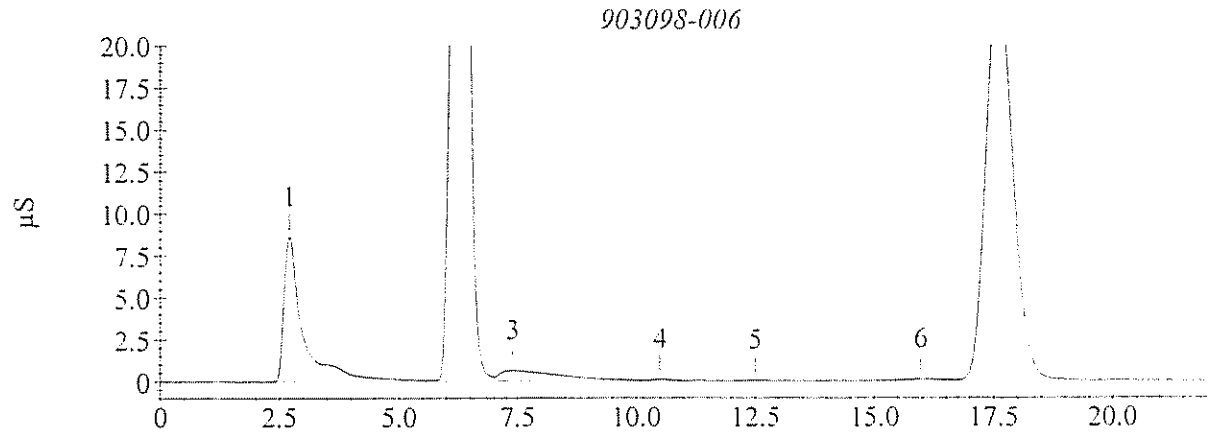
Sample Analysis Report

Sample Name : 903098-006
Data File Name : I:\ICDATA\IC500\090317\090317__007.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/17/09 12:58:22 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.965	2498316	85801
2	Chloride	6.37	13.313	11389933	460305
	Nitrite-N				
4	Bromide	10.50	0.094	27886	976
5	Nitrate-N	12.50	0.071	10192	416
6	Phosphate-P	15.97	0.118	62239	1078
7	Sulfate	17.60	15.038	9231342	235123



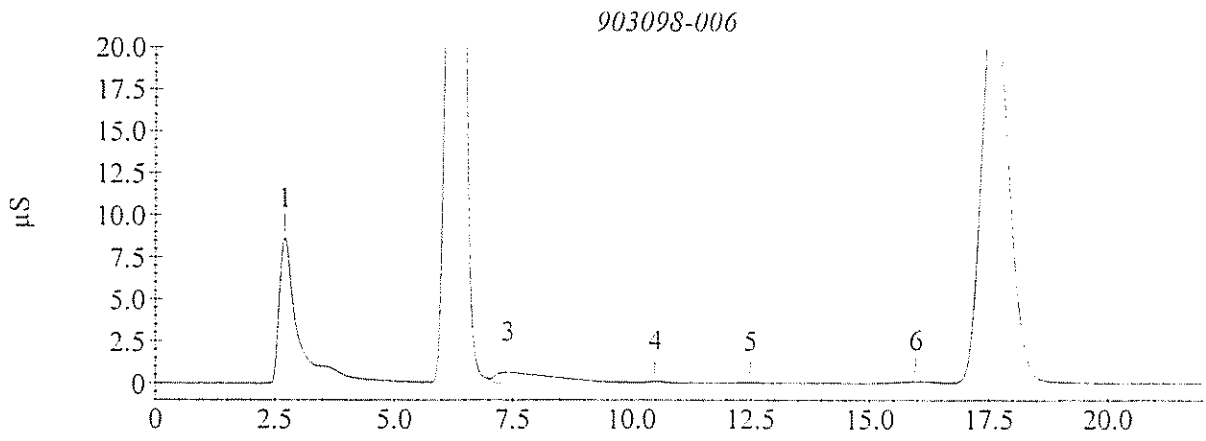
Sample Analysis Report

Sample Name : 903098-006
Data File Name : I:\ICDATA\IC500\090317\090317__007.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 12:58:22 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	2.043	2498316	85801
2	Chloride	6.37	10.027	11389786	460305
	Nitrite-N				
	Bromide				
5	Nitrate-N	12.50	1.189	10192	416
	Phosphate-P				
7	Sulfate	17.60	12.419	9231342	235123



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-062-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	9.9	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

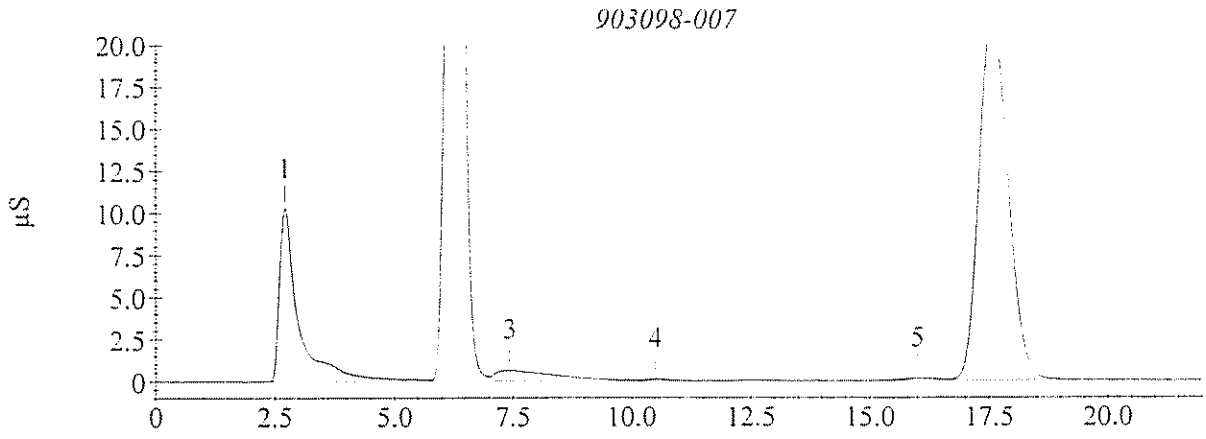
Sample Analysis Report

Sample Name : 903098-007
Data File Name : I:\ICDATA\IC500\090317\090317__008.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/17/09 1:23:27 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	2.287	2916864	102283
2	Chloride	6.33	13.111	11216932	423104
	Nitrite-N				
4	Bromide	10.50	0.101	30575	1021
	Nitrate-N				
5	Phosphate-P	16.00	0.125	67634	1364
6	Sulfate	17.57	14.845	9112460	214278



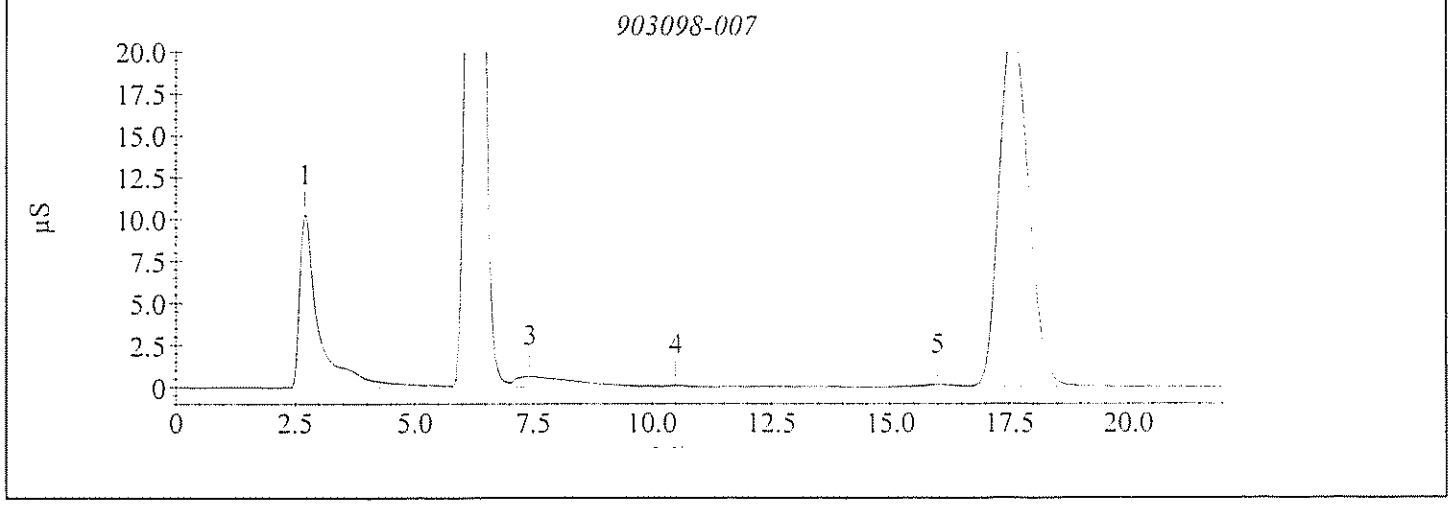
Sample Analysis Report

Sample Name : 903098-007
Data File Name : I:\ICDATA\IC500\090317\090317__008.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 1:23:27 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	2.306	2916864	102283
2	Chloride	6.33	9.897	11216932	423104
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.57	12.282	9112460	214278



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-063-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.7	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

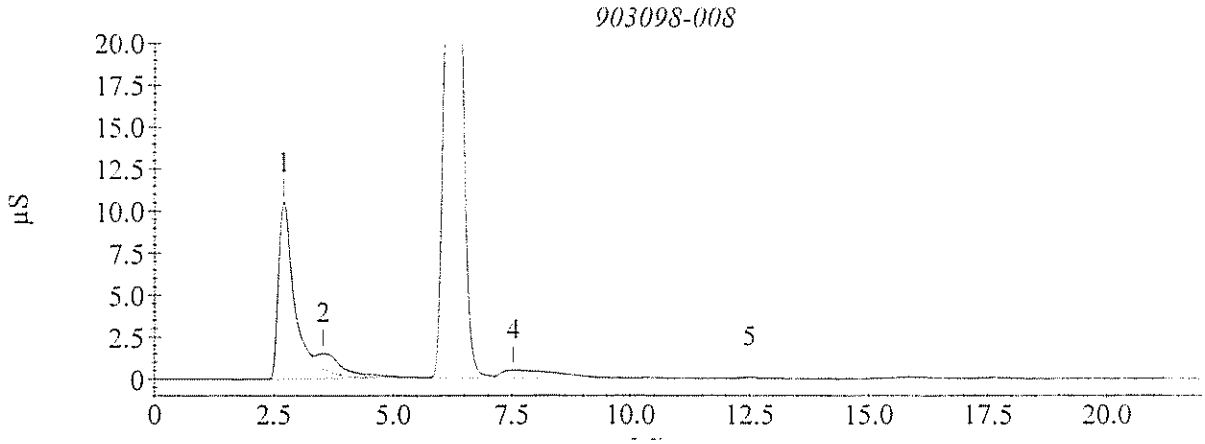
Sample Analysis Report

Sample Name : 903098-008
Data File Name : I:\ICDATA\IC500\090317\090317__006.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/17/09 12:33:14 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.53	0.339	387762	8966
3	Chloride	6.30	9.728	8318802	312182
	Nitrite-N				
	Bromide				
5	Nitrate-N	12.50	0.078	27239	894
	Phosphate-P				
	Sulfate				



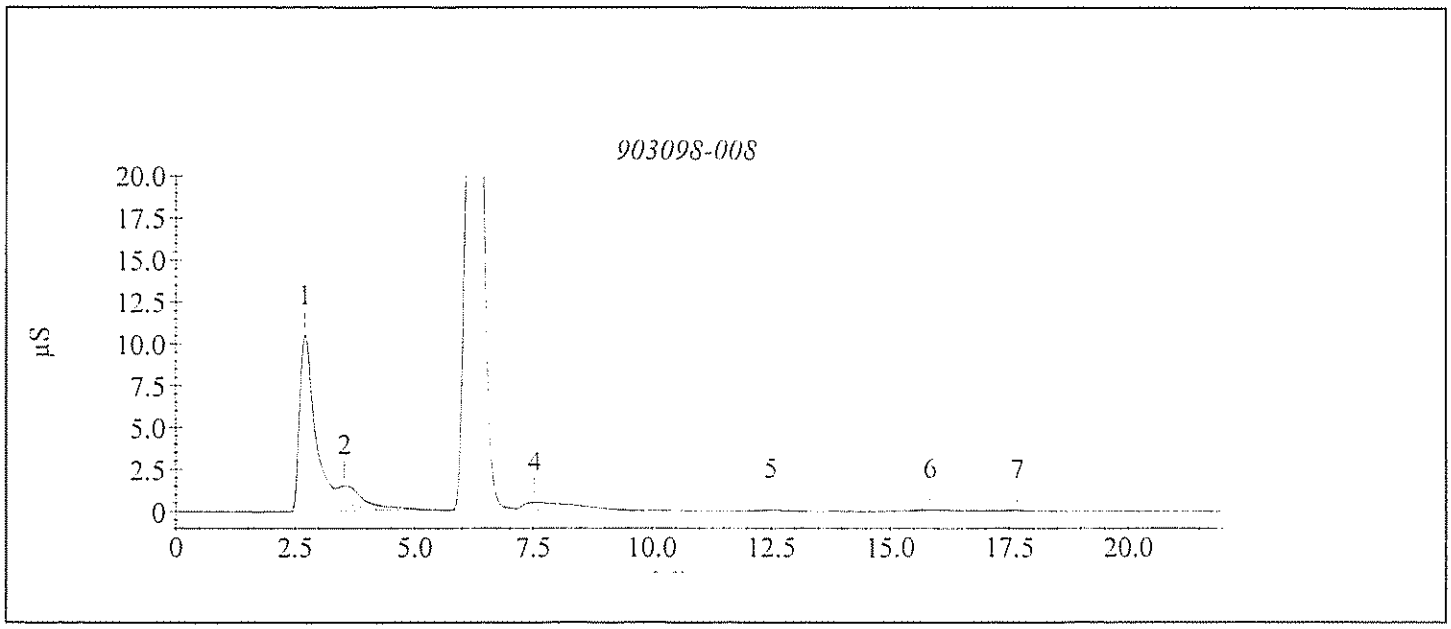
Sample Analysis Report

Sample Name : 903098-008
Data File Name : I:\ICDATA\IC500\090317\090317__006.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 12:33:14 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.53	0.736	388695	8994
3	Chloride	6.30	7.716	8318802	312182
	Nitrite-N				
	Bromide				
5	Nitrate-N	12.50	1.194	27239	894
	Phosphate-P				
	Sulfate				



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-137-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	9.7	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

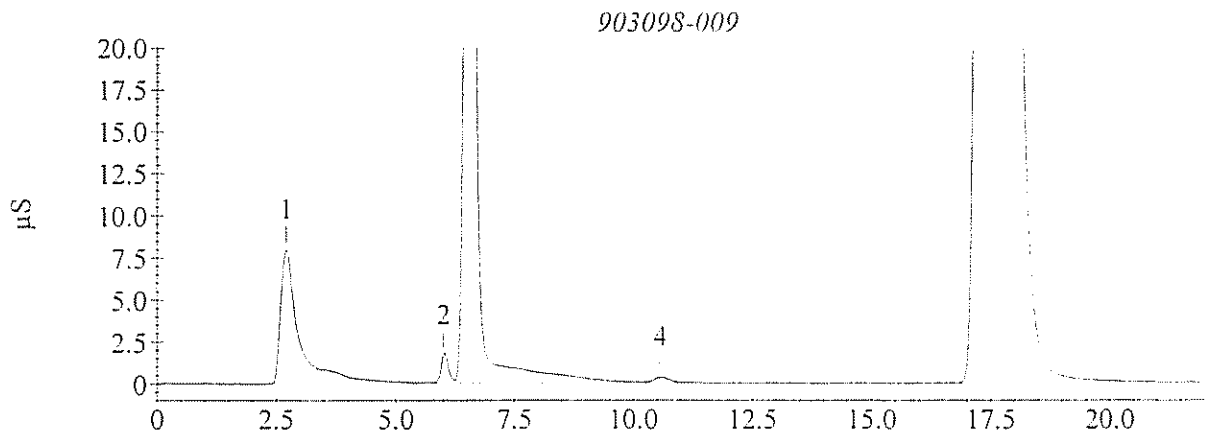
Sample Analysis Report

Sample Name : 903098-009
Data File Name : I:\ICDATA\IC500\090317\090317__022.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 7:26:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.770	2246394	79359
3	Chloride	6.53	13.617	11649772	779476
	Nitrite-N				
4	Bromide	10.57	0.220	73889	3205
	Nitrate-N				
	Phosphate-P				
5	Sulfate	17.43	119.675	73565228	1923045



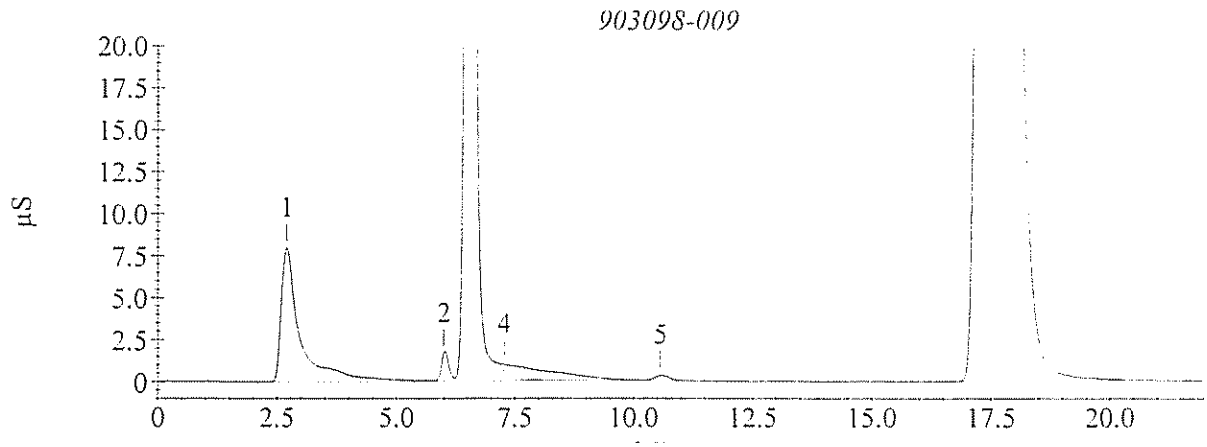
Sample Analysis Report

Sample Name : 903098-009
Data File Name : I:\ICDATA\IC500\090317\090317__022.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 7:26:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.872	2225418	79326
3	Chloride	6.53	9.718	10978992	779192
	Nitrite-N				
5	Bromide	10.57	2.057	62643	2960
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.43	86.930	73565228	1923045



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-065-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	11	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

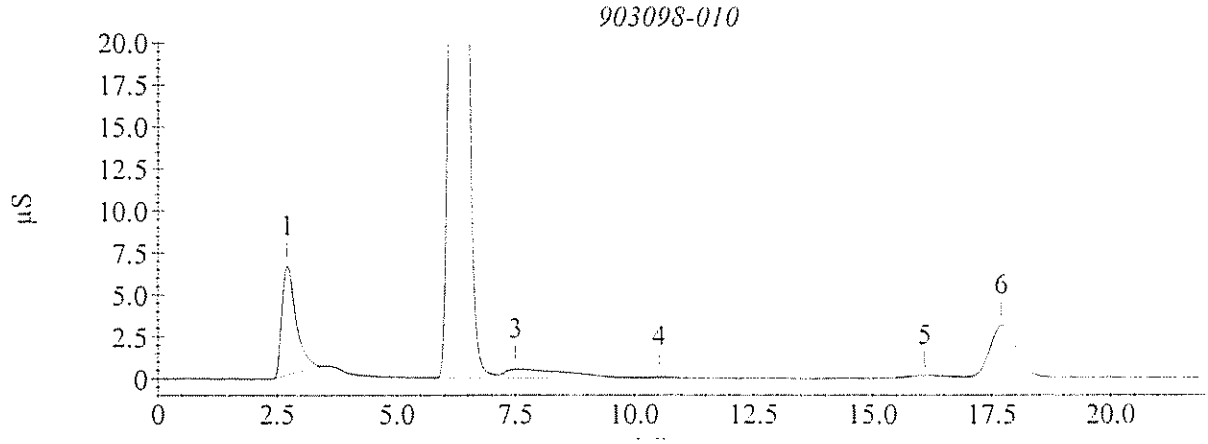
Sample Analysis Report

Sample Name : 903098-010
Data File Name : I:\ICDATA\IC500\090317\090317__023.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 7:51:57 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.077	1346511	64680
2	Chloride	6.37	14.965	12805421	534120
	Nitrite-N				
4	Bromide	10.53	0.070	18948	659
	Nitrate-N				
5	Phosphate-P	16.10	0.146	83986	1372
6	Sulfate	17.70	2.001	1215454	31199



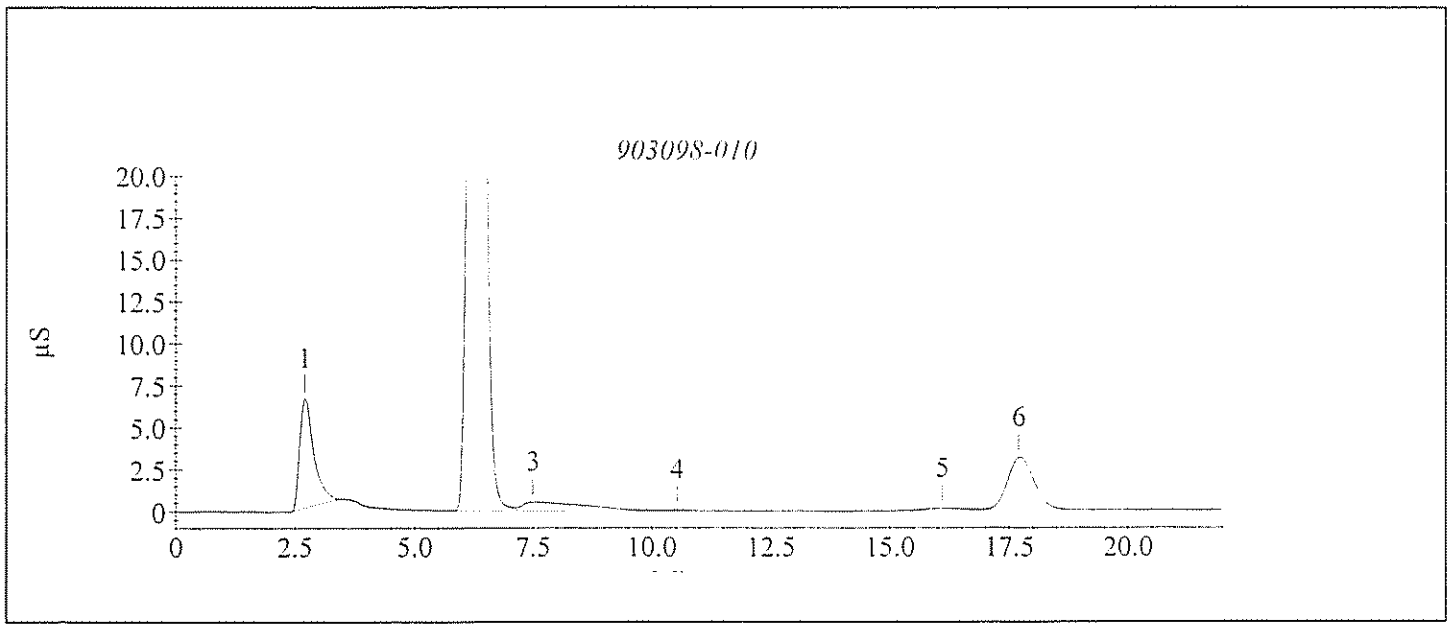
Sample Analysis Report

Sample Name : 903098-010
Data File Name : I:\ICDATA\IC500\090317\090317__023.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 7:51:57 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.325	1346511	64680
2	Chloride	6.37	11.092	12805421	534120
	Nitrite-N				
	Bromide				
	Nitrate-N				
5	Phosphate-P	16.10	1.901	83986	1372
6	Sulfate	17.70	3.136	1215454	31199



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-066-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	12	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

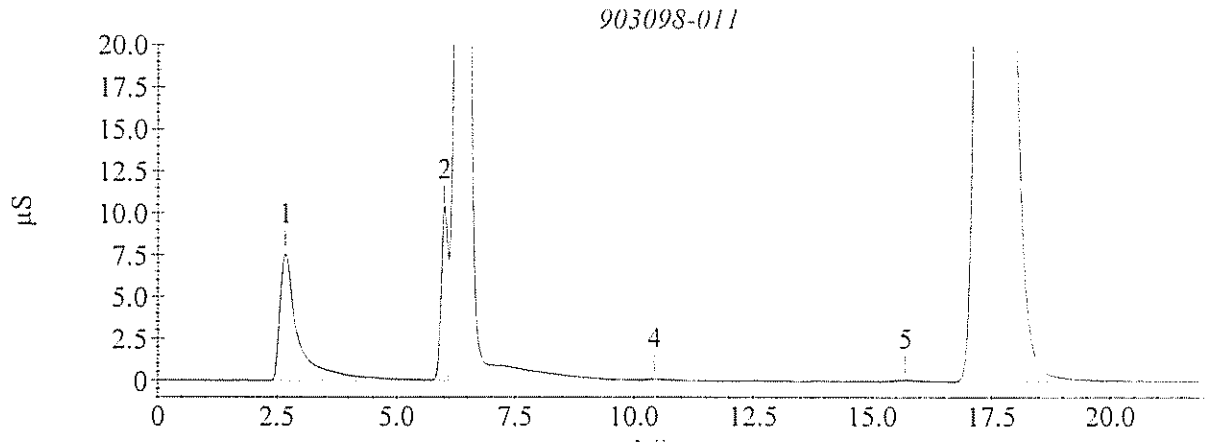
Sample Analysis Report

Sample Name : 903098-011
Data File Name : I:\ICDATA\IC500\090317\090317__024.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 8:17:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.638	2073924	75242
3	Chloride	6.40	16.673	14268210	766019
	Nitrite-N				
4	Bromide	10.43	0.099	29603	986
	Nitrate-N				
5	Phosphate-P	15.70	0.074	27593	856
6	Sulfate	17.43	69.806	42904571	1152090



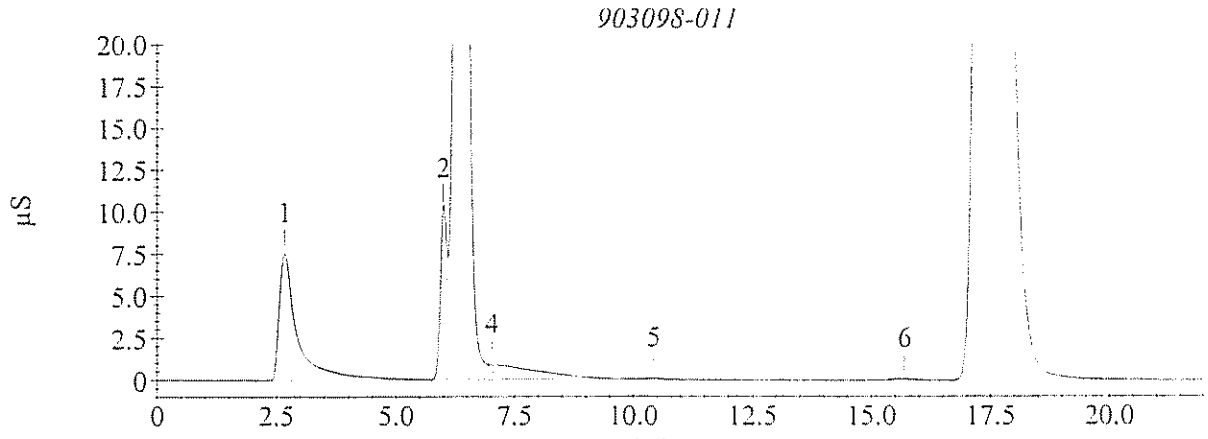
Sample Analysis Report

Sample Name : 903098-011
Data File Name : I:\ICDATA\IC500\090317\090317__024.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 8:17:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.760	2045618	75213
3	Chloride	6.40	11.713	13630130	765667
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
7	Sulfate	17.43	51.419	42904571	1152090



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-068-1/3
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.7	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

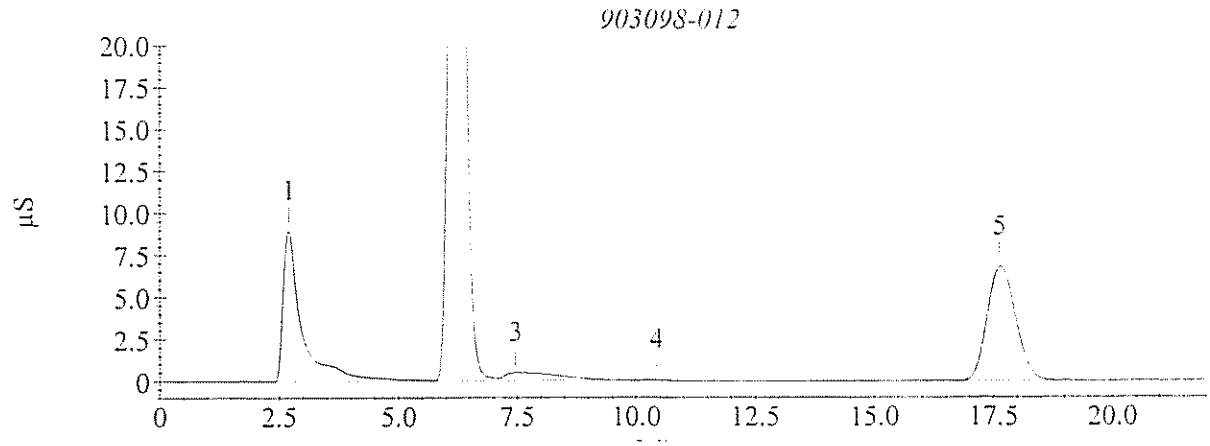
Sample Analysis Report

Sample Name : 903098-012
Data File Name : I:\ICDATA\IC500\090317\090317__025.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 8:42:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.973	2509010	89226
2	Chloride	6.27	11.322	9683836	375594
	Nitrite-N				
4	Bromide	10.43	0.053	12848	519
	Nitrate-N				
	Phosphate-P				
5	Sulfate	17.63	4.626	2829623	67541



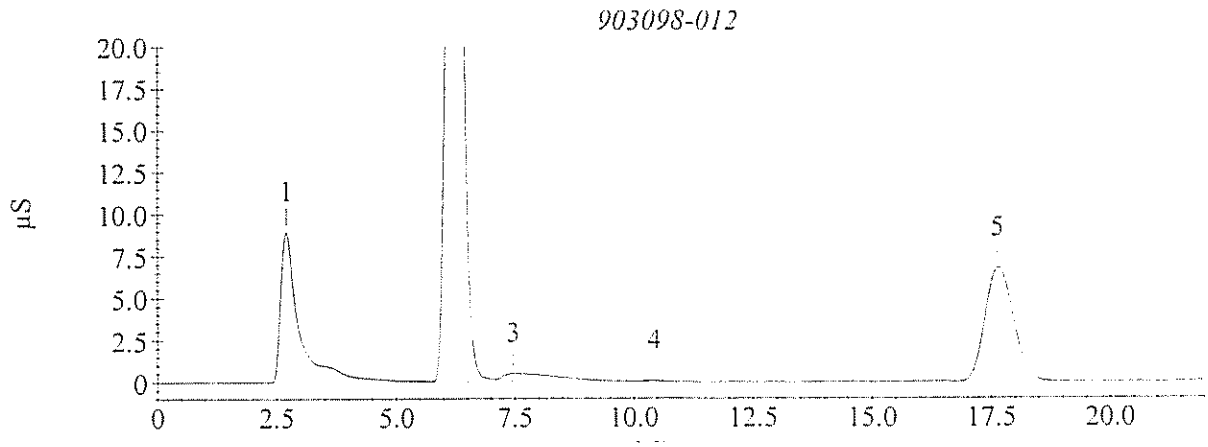
Sample Analysis Report

Sample Name : 903098-012
Data File Name : I:\ICDATA\IC500\090317\090317__025.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 8:42:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	2.050	2509010	89226
2	Chloride	6.27	8.743	9683836	375594
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
5	Sulfate	17.63	5.005	2829623	67541



C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLLP

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903098 STD Solution ID: 45325/45405

3/17/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVL	**Chloride**	1.25	1.32	106	90 - 110%
	Nitrite-N	1.25	1.27	102	90 - 110%
	Nitrate-N	1.25	1.24	99.2	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVH	**Chloride**	20.0	20.4	102	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	**Chloride**	1.25	1.32	106	90 - 110%
	Nitrite-N	1.25	1.30	104	90 - 110%
	Nitrate-N	1.25	1.21	96.8	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	**Chloride**	20.0	20.4	102	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	**Chloride**	1.25	1.31	105	90 - 110%
	Nitrite-N	1.25	1.30	104	90 - 110%
	Nitrate-N	1.25	1.22	97.6	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	**Chloride**	20.0	20.4	102	90 - 110%

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC | Client: CH2M Hill

Work-Order # ~~903089~~ 903078 ICSA 3/28/09 | STD Solution ID: 45325/45405

3/28/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	**Chloride**	20.0	20.1	101	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	**Chloride**	20.0	20.0	100	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH5	**Chloride**	20.0	19.9	99.5	90 - 110%

Method Report - 080917L-300-0

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.63 min	1.00 min	
Chloride	6.40 min	1.00 min	
Nitrite-N	8.27 min	1.00 min	
Bromide	11.13 min	1.00 min	
Nitrate-N	13.37 min	1.00 min	
Phosphate-P	16.77 min	1.00 min	
Sulfate	18.97 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.63 min	0	0
Chloride	6.40 min	0	0
Nitrite-N	8.27 min	0	0
Bromide	11.13 min	0	0
Nitrate-N	13.37 min	0	0
Phosphate-P	16.77 min	0	0
Sulfate	18.97 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.63 min	Linear	Ignore	Area		0.00
Chloride	6.40 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.27 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.13 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	13.37 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.77 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.97 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	4957.2
2	0.10	109547
3	0.25	277132
4	0.50	557311
5	1.00	1.24129e+006
6	2.50	3.20076e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.40 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	77115.9
3	0.25	197410
4	0.50	408470
5	1.00	836176
6	2.50	2.12844e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.27 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	13027
2	0.10	159558
3	0.25	359105
4	0.50	820570
5	1.00	1.74342e+006
6	2.50	4.38464e+006

CD20 Component = Bromide Levels Table

Retention Time : 11.13 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	38326.6
3	0.25	88554.3
4	0.50	165498
5	1.00	356395
6	2.50	912041

CD20 Component = Nitrate-N Levels Table

Retention Time : 13.37 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	205502
3	0.25	506529
4	0.50	970676
5	1.00	2.16507e+006
6	2.50	6.05721e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	7303.4
2	0.10	67439.6
3	0.25	165945
4	0.50	353067
5	1.00	734622
6	2.50	1.93771e+006

CD20 Component = Sulfate Levels Table

Retention Time : 18.97 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	53956.6
3	0.25	139751
4	0.50	274835
5	1.00	612643
6	2.50	1.52046e+006

CD20 XY Data Parameters

Calibration Update Report

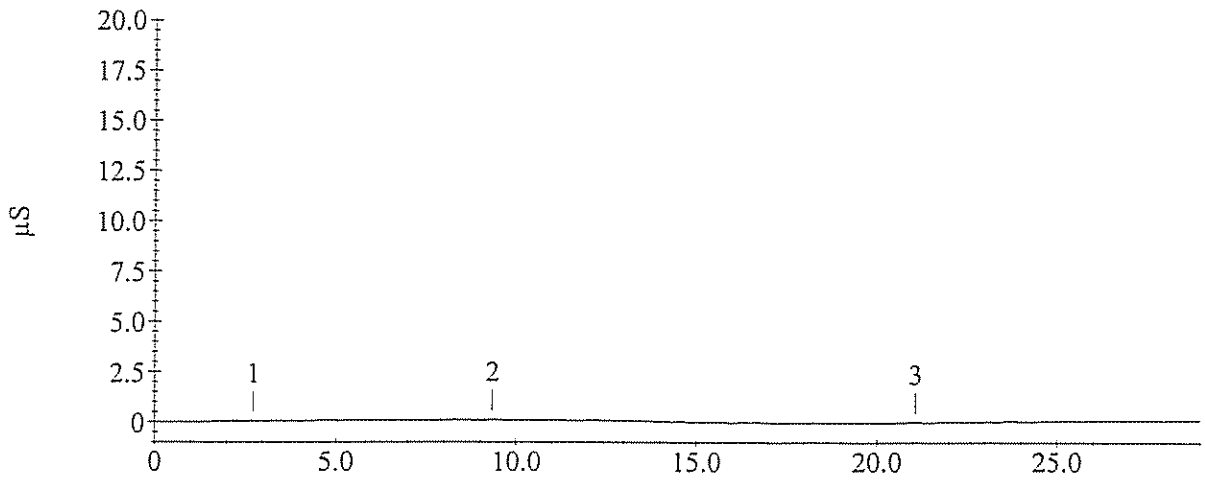
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\080917\080917__003.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:21:51 PM
Calibration Date : 9/18/08 10:53:59 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride Chloride	2.73	12030	4957	4957
2	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	9.33	10214	13027	13027

STD 1 - BLK



Calibration Update Report

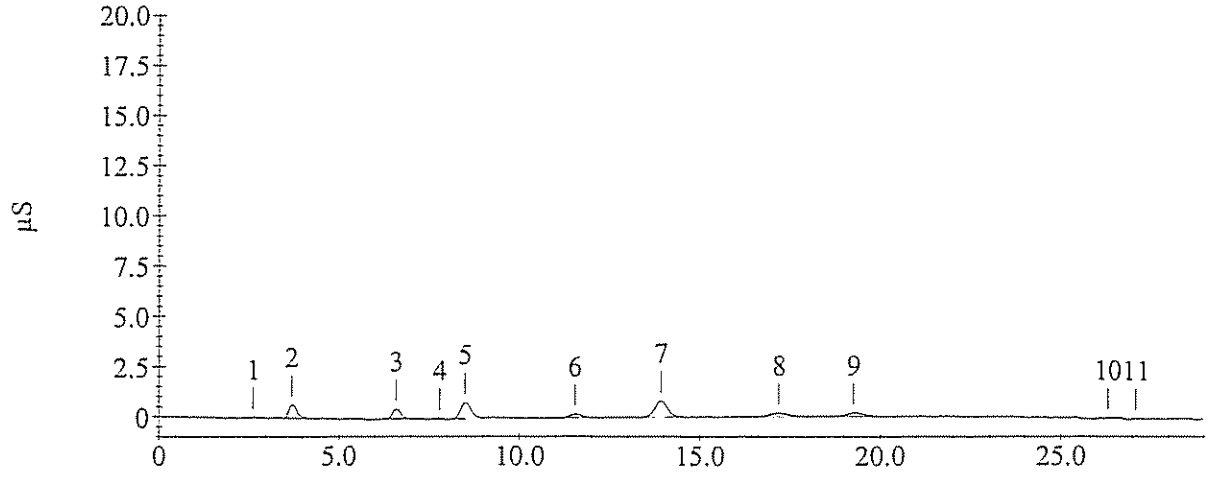
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__004.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 3:54:07 PM
Calibration Date : 9/18/08 10:54:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.70	127699	109547	109547
3	Chloride	6.60	79506	77116	77116
5	Nitrite-N	8.50	165770	159558	159558
6	Bromide	11.53	36476	38327	38327
7	Nitrate-N	13.93	210099	205502	205502
8	Phosphate-P	17.20	57656	67440	67440
9	Sulfate	19.27	29056	53957	53957

STD 2 - 0.10 mg/L



Calibration Update Report

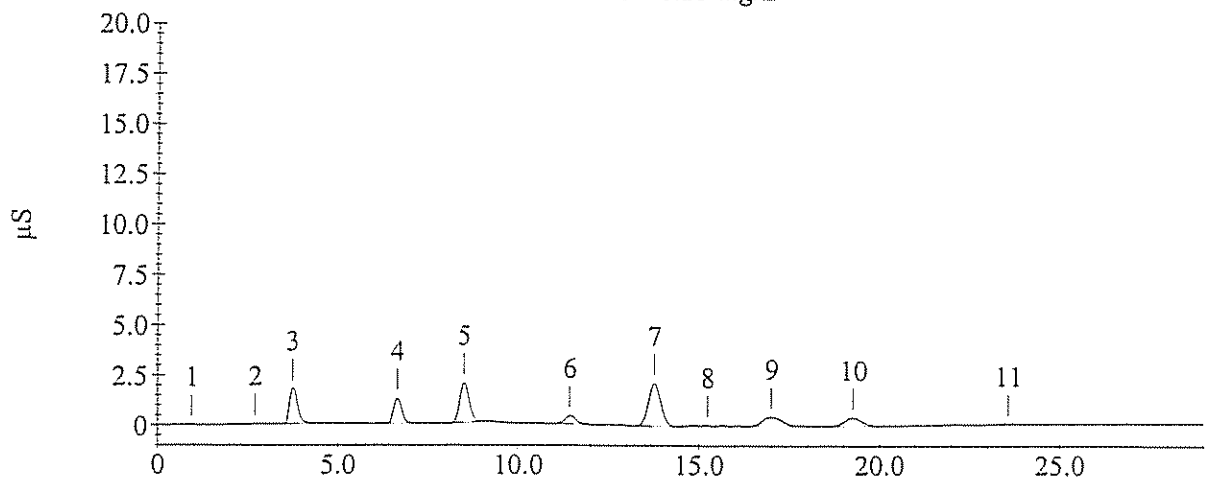
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__005.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:26:23 PM
Calibration Date : 9/18/08 10:55:25 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.73	321091	277132	277132
4	Chloride	6.63	234107	197410	197410
5	Nitrite-N	8.50	439503	359105	359105
6	Bromide	11.43	91211	88554	88554
7	Nitrate-N	13.77	544593	506530	506530
9	Phosphate-P	17.00	161886	165945	165945
10	Sulfate	19.27	150013	139751	139751

STD 3 - 0.25 mg/L



Calibration Update Report

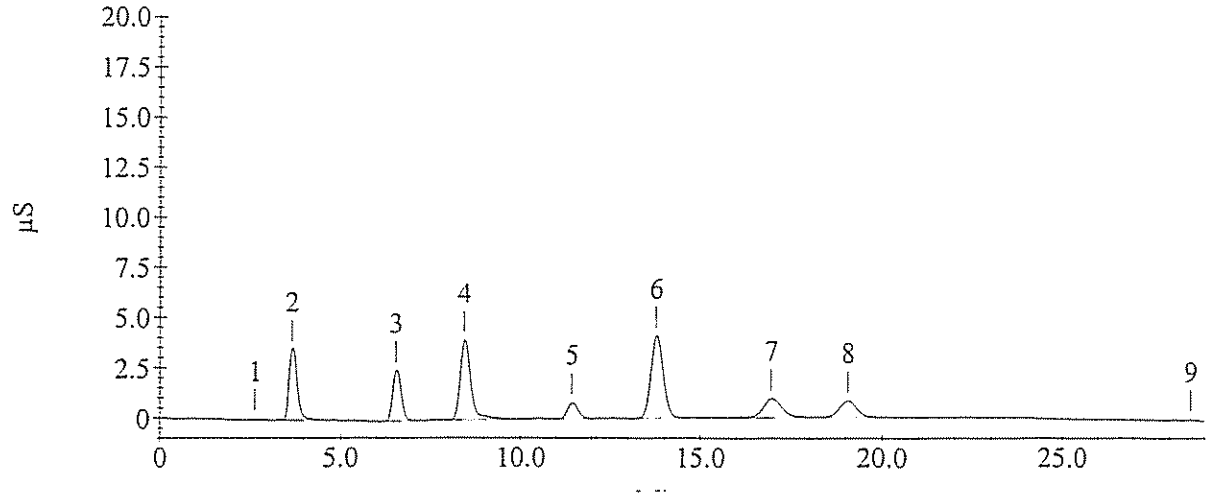
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__006.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 4:58:39 PM
Calibration Date : 9/18/08 10:55:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	652331	557311	557311
3	Chloride	6.53	443570	408470	408470
4	Nitrite-N	8.43	856511	820570	820570
5	Bromide	11.43	176794	165498	165498
6	Nitrate-N	13.77	1117440	970676	970676
7	Phosphate-P	16.97	364199	353067	353067
8	Sulfate	19.07	317565	274835	274835

STD 4 - 0.50 mg/L



Calibration Update Report

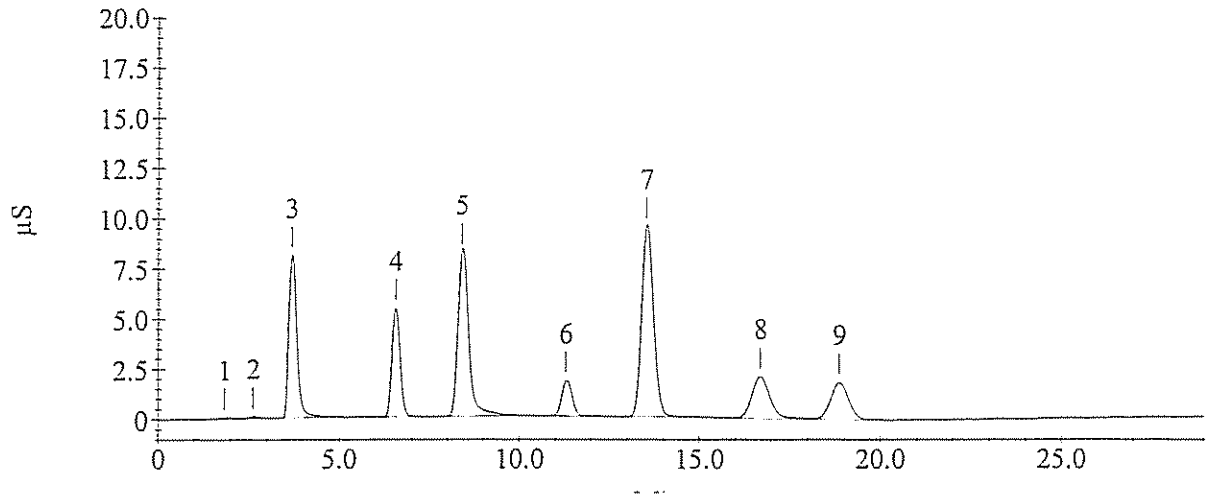
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__007.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 5:30:56 PM
Calibration Date : 9/18/08 10:56:16 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	1414952	1241286	1241286
4	Chloride	6.57	945973	836176	836176
5	Nitrite-N	8.40	1867081	1743424	1743424
6	Bromide	11.30	378829	356395	356395
7	Nitrate-N	13.53	2350504	2165069	2165069
8	Phosphate-P	16.70	766176	734622	734622
9	Sulfate	18.87	605591	612643	612643

STD 5 - 1.00 mg/L



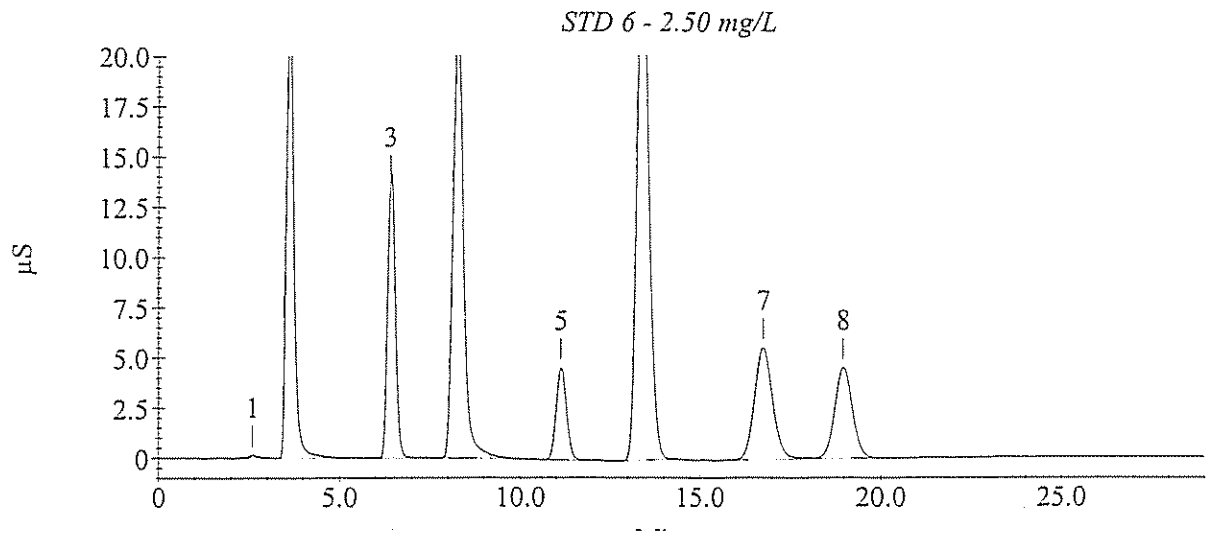
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__008.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:03:10 PM
Calibration Date : 9/18/08 10:56:45 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.63	3393532	3201114	3201114
3	Chloride	6.40	2250125	2128443	2128443
4	Nitrite-N	8.27	4631633	4384638	4384638
5	Bromide	11.13	897545	912041	912041
6	Nitrate-N	13.37	6210895	6057211	6057211
7	Phosphate-P	16.77	2064462	1937708	1937708
8	Sulfate	18.97	1545001	1520461	1520461



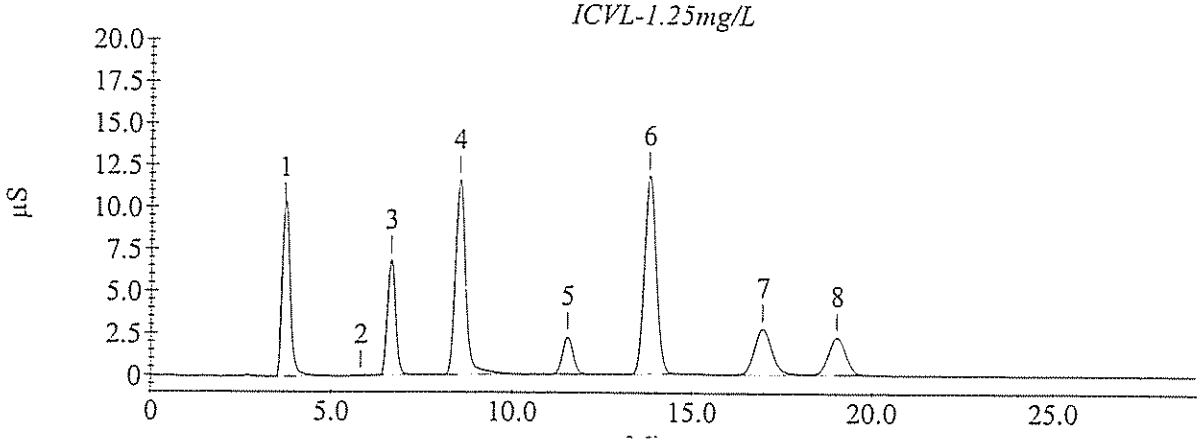
Sample Analysis Report

Sample Name : ICVL-1.25mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 9/17/08 9:49:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	1.272	1599310	100086
3	Chloride	6.63	1.281	1081600	67848
4	Nitrite-N	8.53	1.342	2332375	115172
5	Bromide	11.53	1.266	457280	22107
6	Nitrate-N	13.80	1.167	2714120	117215
7	Phosphate-P	16.97	1.231	934494	27173
8	Sulfate	19.03	1.214	732044	22175



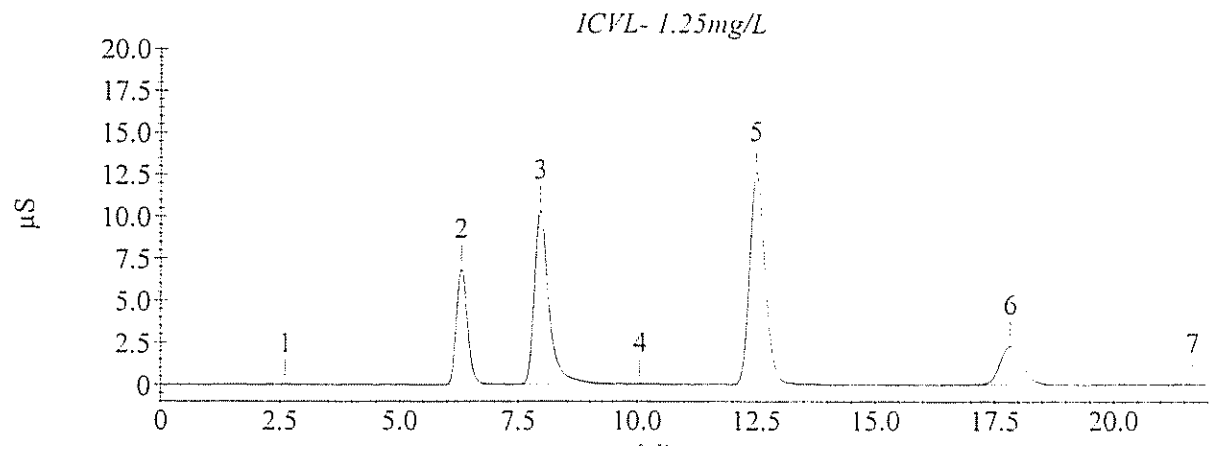
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090317\090317__002.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 10:52:44 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	8288	337
2	Chloride	6.30	1.317	1112253	68197
3	Nitrite-N	7.97	1.272	2207265	102956
	Bromide				
5	Nitrate-N	12.50	1.238	2889212	126029
	Phosphate-P				
6	Sulfate	17.83	1.267	764213	23260



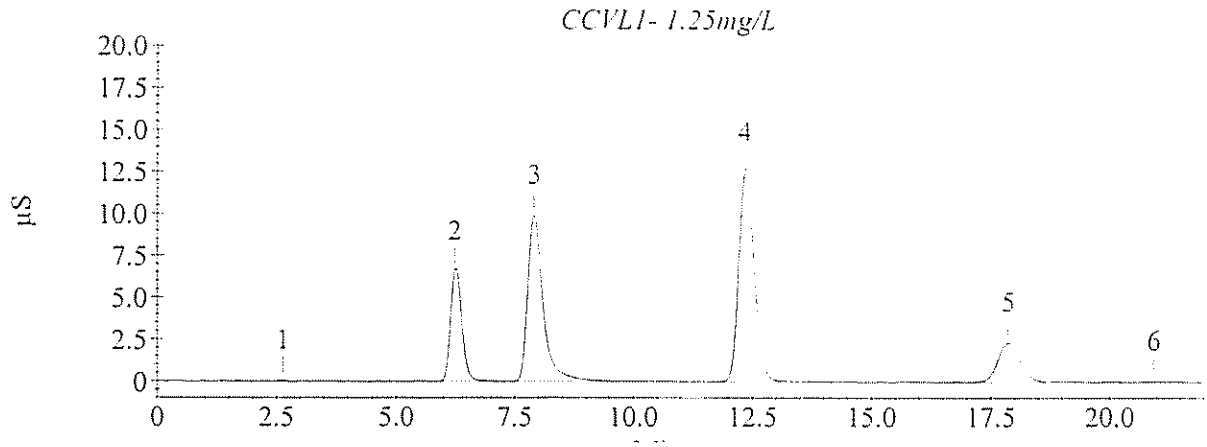
Sample Analysis Report

Sample Name : CCVL1- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090317\090317__016.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 4:56:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.63	0.046	7391	573
2	Chloride	6.23	1.321	1115743	65434
3	Nitrite-N	7.90	1.299	2255964	98739
	Bromide				
4	Nitrate-N	12.33	1.210	2820474	124165
	Phosphate-P				
5	Sulfate	17.87	1.262	761614	23432



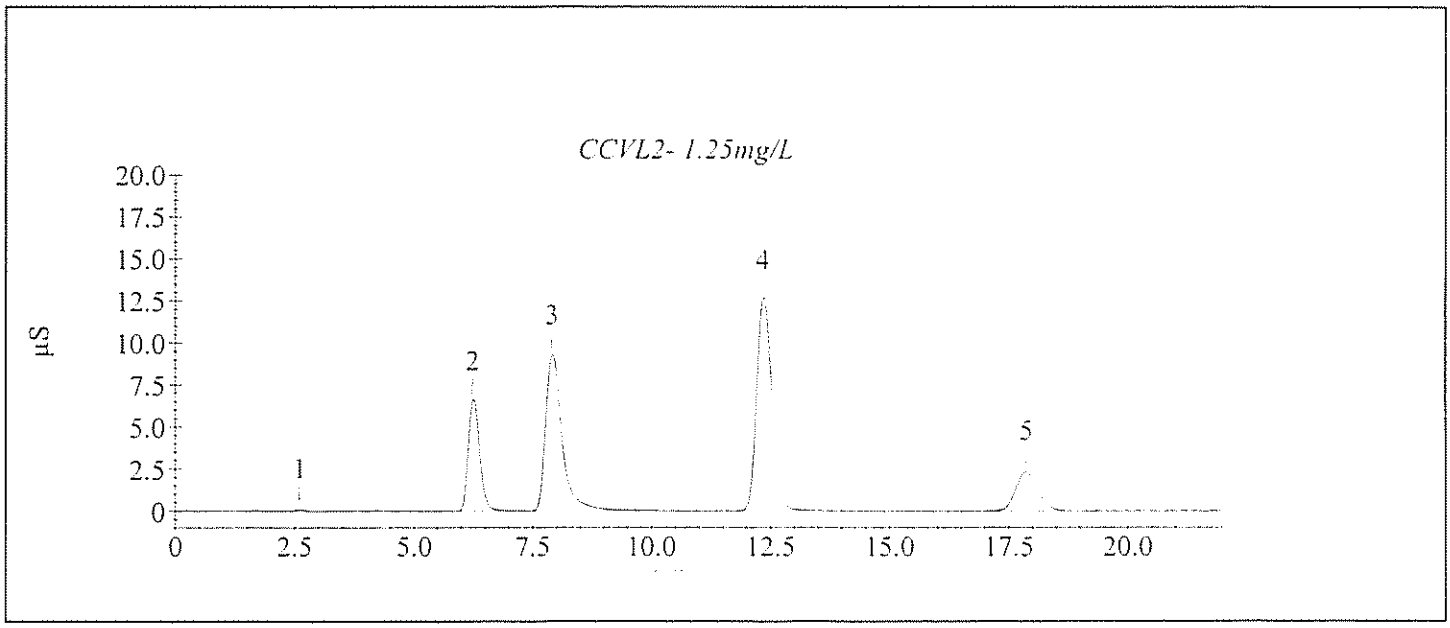
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090317\090317__027.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 9:32:21 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	12140	913
2	Chloride	6.23	1.312	1108084	64840
3	Nitrite-N	7.90	1.295	2248352	91879
	Bromide				
4	Nitrate-N	12.33	1.215	2832979	124525
	Phosphate-P				
5	Sulfate	17.87	1.269	765652	23501



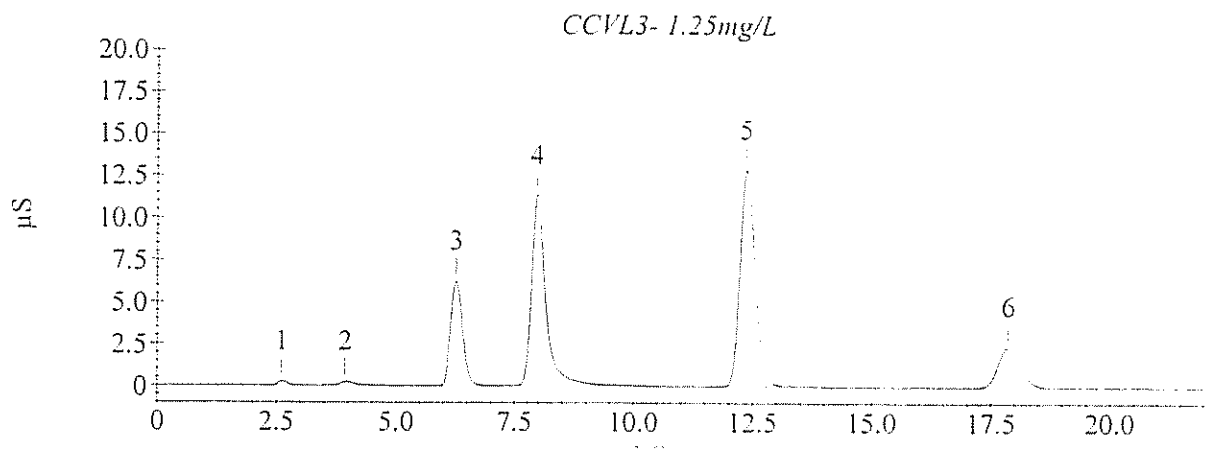
Sample Analysis Report

Sample Name : CCVL3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090317\090317__031.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 11:12:54 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.93	0.077	47782	2131
3	Chloride	6.27	1.317 ✓	1112213	62210
4	Nitrite-N Bromide	7.97	1.354 ✓	2353456	112647
5	Nitrate-N Phosphate-P	12.37	1.220 ✓	2845244	127952
6	Sulfate	17.87	1.301	785069	24128



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 29.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	2.00 min	
Chloride	6.60 min	2.00 min	
Nitrite-N	8.60 min	2.00 min	
Bromide	11.10 min	2.00 min	
Nitrate-N	12.53 min	2.00 min	
Phosphate-P	16.53 min	2.00 min	
Sulfate	18.63 min	2.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.60 min	0	0
Nitrite-N	8.60 min	0	0
Bromide	11.10 min	0	0
Nitrate-N	12.53 min	0	0
Phosphate-P	16.53 min	0	0
Sulfate	18.63 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.60 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.60 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	11.10 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.53 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	16.53 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	18.63 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.19633e+006
2	5.00	6.79909e+006
3	10.00	1.4197e+007
4	15.00	2.23583e+007
5	25.00	3.24666e+007
6	50.00	5.95621e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.17209e+006
2	5.00	4.74491e+006
3	10.00	1.09177e+007
4	15.00	1.81901e+007
5	25.00	3.02302e+007
6	50.00	6.49975e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.60 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.50237e+006
2	5.00	9.32687e+006
3	10.00	1.88466e+007
4	15.00	2.84344e+007
5	25.00	4.30083e+007
6	50.00	7.78228e+007

CD20 Component = Bromide Levels Table

Retention Time : 11.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	944915
2	5.00	1.94188e+006
3	10.00	4.22448e+006
4	15.00	6.96738e+006
5	25.00	1.20925e+007
6	50.00	2.71285e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.0797e+006
2	5.00	1.34786e+007
3	10.00	2.97651e+007
4	15.00	4.68262e+007
5	25.00	7.95557e+007
6	50.00	1.68531e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 16.53 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.91979e+006
2	5.00	4.10318e+006
3	10.00	9.26053e+006
4	15.00	1.50936e+007
5	25.00	2.73147e+007
6	50.00	5.84703e+007

CD20 Component = Sulfate Levels Table

Retention Time : 18.63 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.51196e+006
2	5.00	3.10193e+006
3	10.00	6.7792e+006
4	15.00	1.0794e+007
5	25.00	1.95858e+007
6	50.00	4.20941e+007

CD20 XY Data Parameters

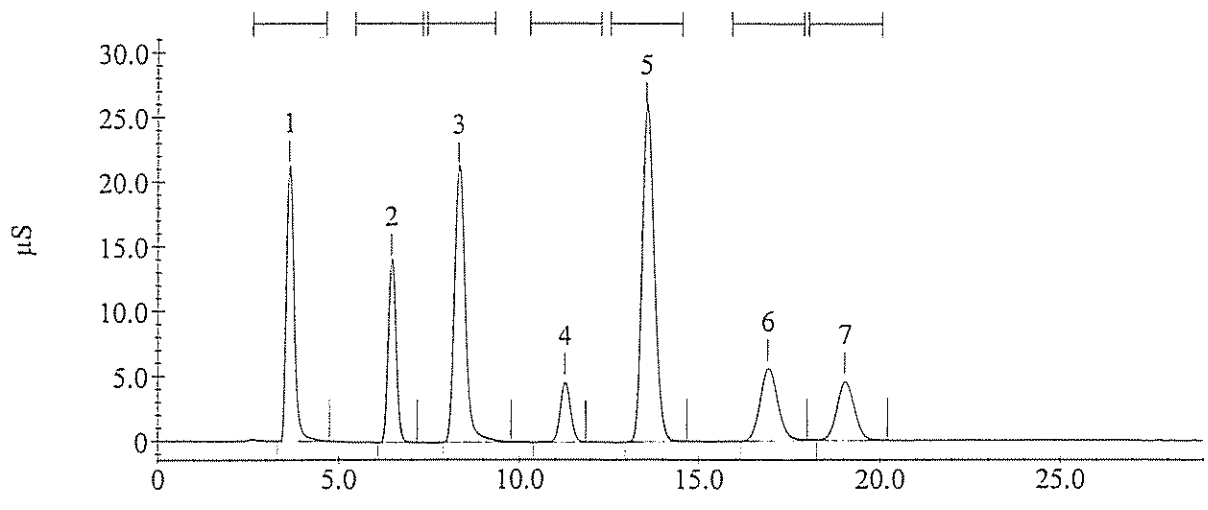
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__009.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 6:35:27 PM
Calibration Date : 9/18/08 1:45:07 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.63	3490609	3196333	3196333
2	Chloride	6.43	2340736	2172090	2172090
3	Nitrite-N	8.30	4788476	4502370	4502370
4	Bromide	11.27	910060	944915	944915
5	Nitrate-N	13.53	6100255	6079699	6079699
6	Phosphate-P	16.90	1989759	1919795	1919795
7	Sulfate	19.03	1509227	1511958	1511958



Calibration Update Report

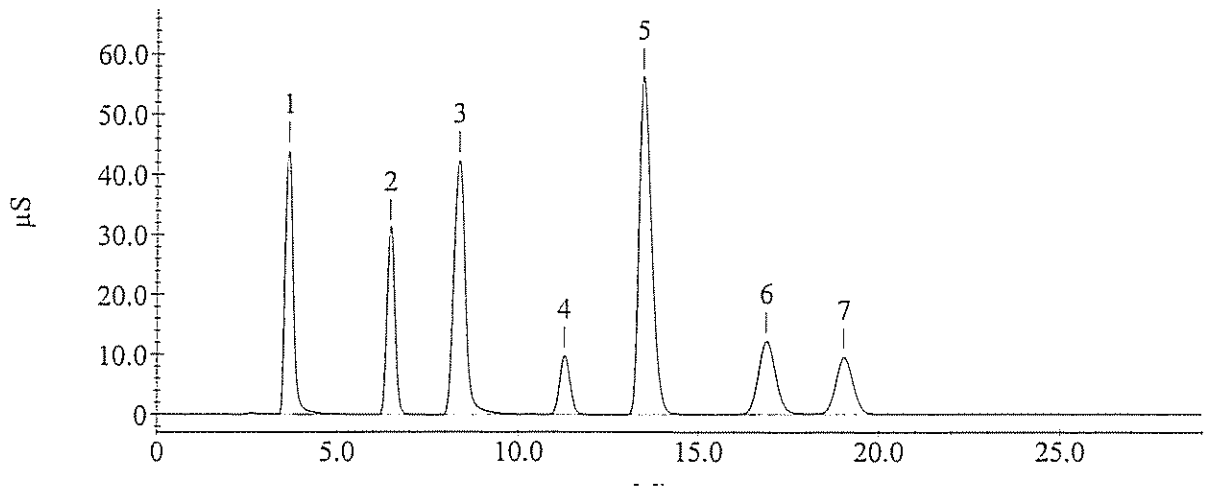
Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__010.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:07:45 PM
Calibration Date : 9/18/08 1:46:08 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	7163728	6799090	6799090
2	Chloride	6.47	4951970	4744908	4744908
3	Nitrite-N	8.37	9622812	9326874	9326874
4	Bromide	11.27	1886735	1941879	1941879
5	Nitrate-N	13.47	13547415	13478598	13478598
6	Phosphate-P	16.90	4333106	4103184	4103184
7	Sulfate	19.03	3220366	3101926	3101926

STD 2 - 5.00 mg/L



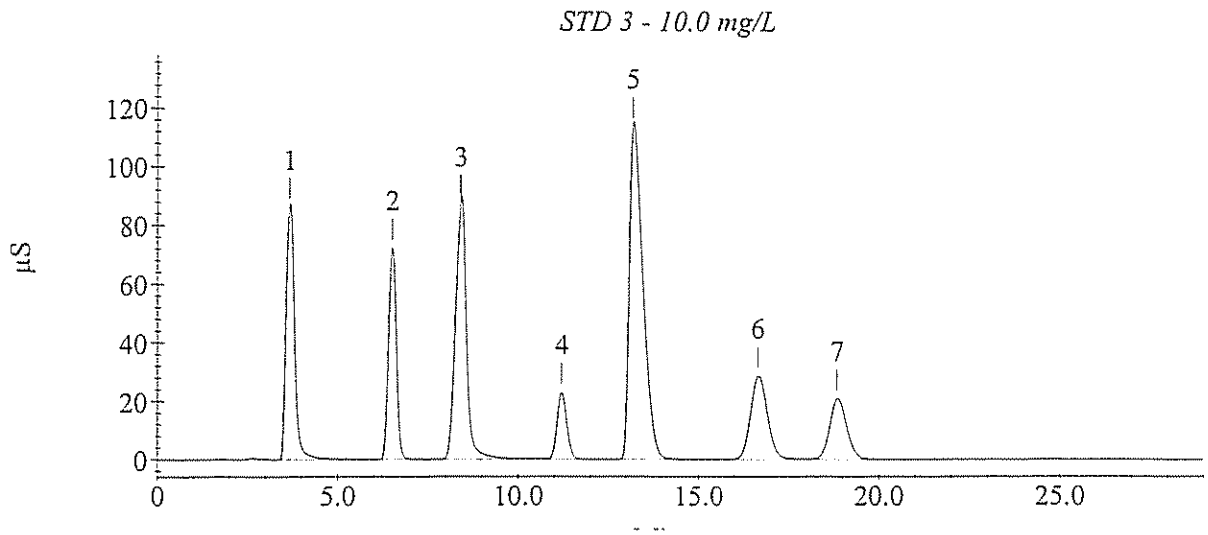
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__011.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 7:39:59 PM
Calibration Date : 9/18/08 1:46:56 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.67	15827968	14197049	14197049
2	Chloride	6.50	12391700	10917702	10917702
3	Nitrite-N	8.40	20828057	18846586	18846586
4	Bromide	11.20	4468055	4224476	4224476
5	Nitrate-N	13.17	32002772	29765135	29765135
6	Phosphate-P	16.63	10155360	9260527	9260527
7	Sulfate	18.83	7254458	6779202	6779202



Calibration Update Report

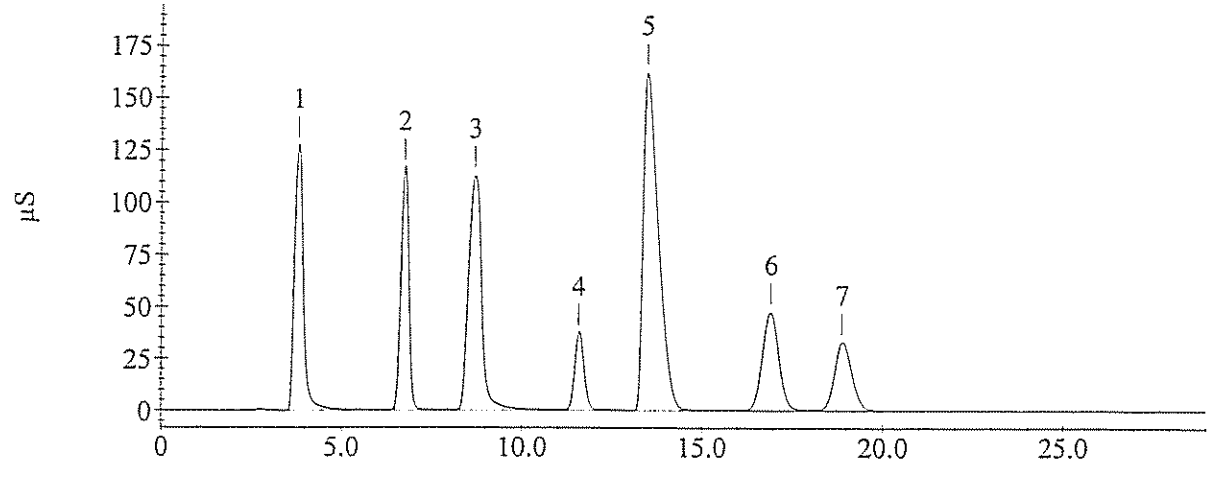
Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__012.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:12:14 PM
Calibration Date : 9/18/08 1:55:13 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.80	22029611	22358309	22358309
2	Chloride	6.73	18865697	18190071	18190071
3	Nitrite-N	8.70	29289300	28434383	28434383
4	Bromide	11.57	7016812	6967382	6967382
5	Nitrate-N	13.47	50292581	46826178	46826178
6	Phosphate-P	16.90	16723468	15093639	15093639
7	Sulfate	18.87	11671317	10793955	10793955

STD 4 - 15.0 mg/L



Calibration Update Report

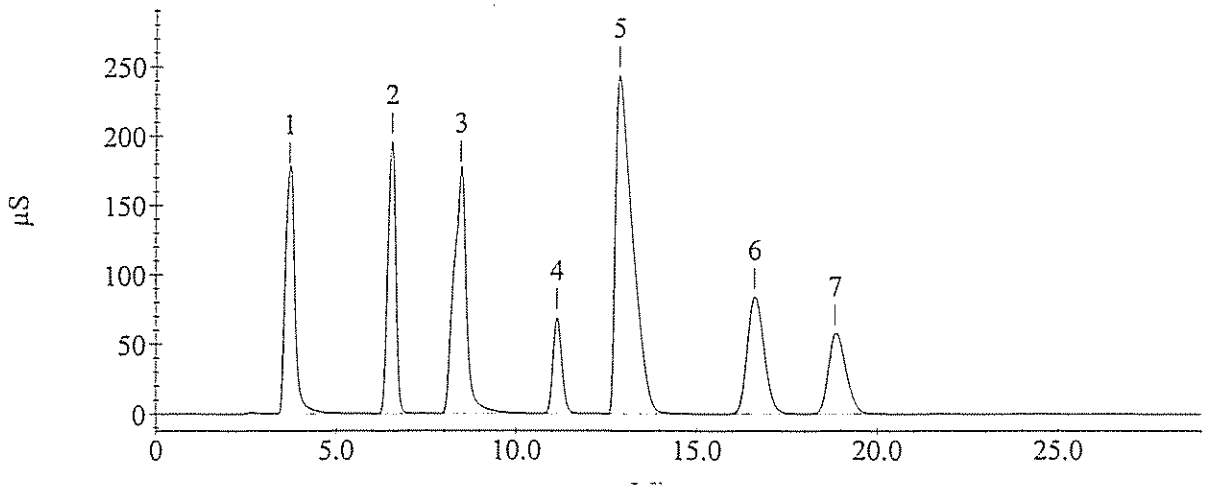
Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__013.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 8:44:30 PM
Calibration Date : 9/18/08 1:55:31 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.70	33007779	32466619	32466619
2	Chloride	6.53	32580429	30230161	30230161
3	Nitrite-N	8.47	44840173	43008339	43008339
4	Bromide	11.13	12419665	12092529	12092529
5	Nitrate-N	12.87	83601485	79555670	79555670
6	Phosphate-P	16.60	28101078	27314683	27314683
7	Sulfate	18.83	19423982	19585760	19585760

STD 5 - 25.0 mg/L



Calibration Update Report

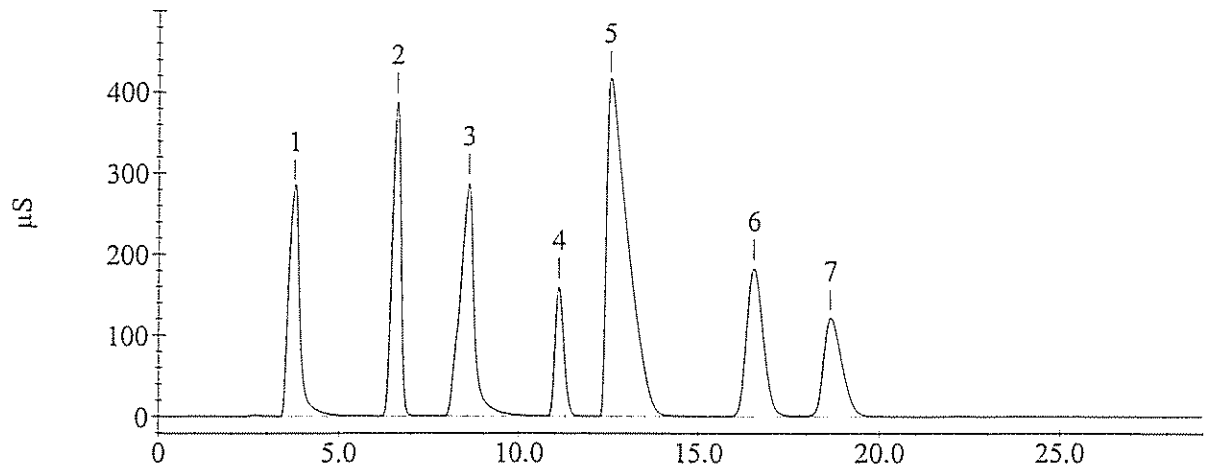
Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__014.DXD

Method File Name : H:\icdata\methods\method 300\080917h-300-0.met
Schedule File Name : h:\icdata\schedules\080917-300.sch
Date Time Collected : 9/17/08 9:16:45 PM
Calibration Date : 9/18/08 1:55:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	Fluoride	3.77	61202691	59562057	59562057
2	Chloride	6.60	68397328	64997521	64997521
3	Nitrite-N	8.60	78043406	77822760	77822760
4	Bromide	11.10	26985167	27128528	27128528
5	Nitrate-N	12.53	170058779	168531288	168531288
6	Phosphate-P	16.53	60044391	58470285	58470285
7	Sulfate	18.63	41693235	42094125	42094125

STD 6 - 50.0 mg/L



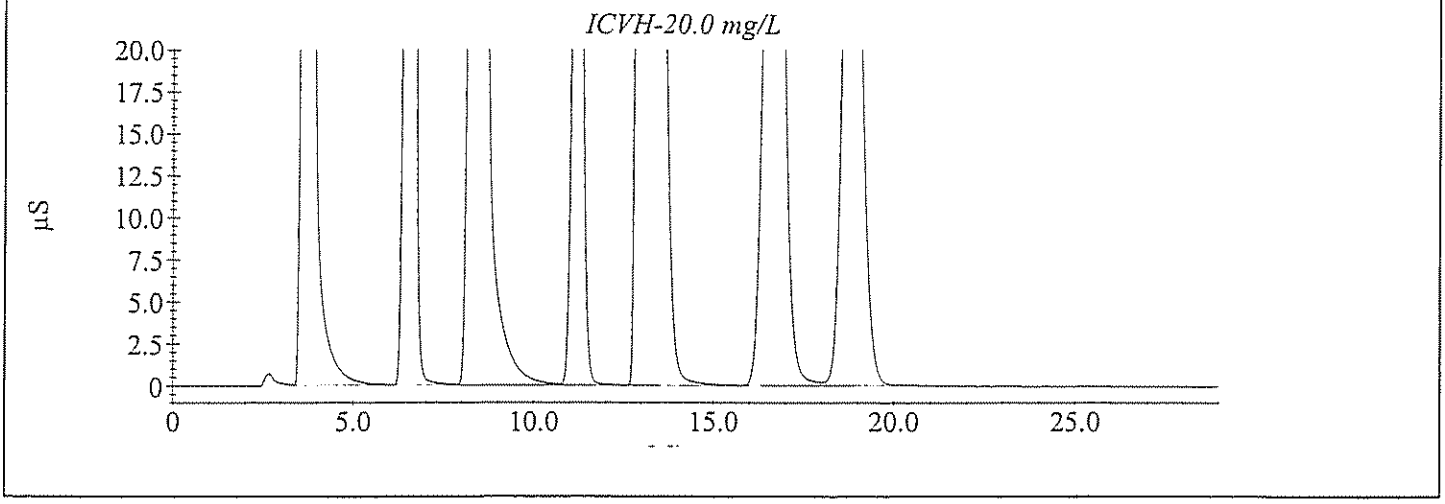
Sample Analysis Report

Sample Name : ICVH-20.0 mg/L
Data File Name : I:\ICDATA\IC500\080917\080917__016.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 9/17/08 10:21:17 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	3.70	19.970	27365306	1532443
2	Chloride	6.53	19.882	24486856	1608579
3	Nitrite-N	8.47	22.633	37577280	1419007
4	Bromide	11.17	18.982	9475913	530938
5	Nitrate-N	12.97	19.672	63390755	2049592
6	Phosphate-P	16.60	19.427	21178030	659102
7	Sulfate	18.80	19.274	15149498	460473



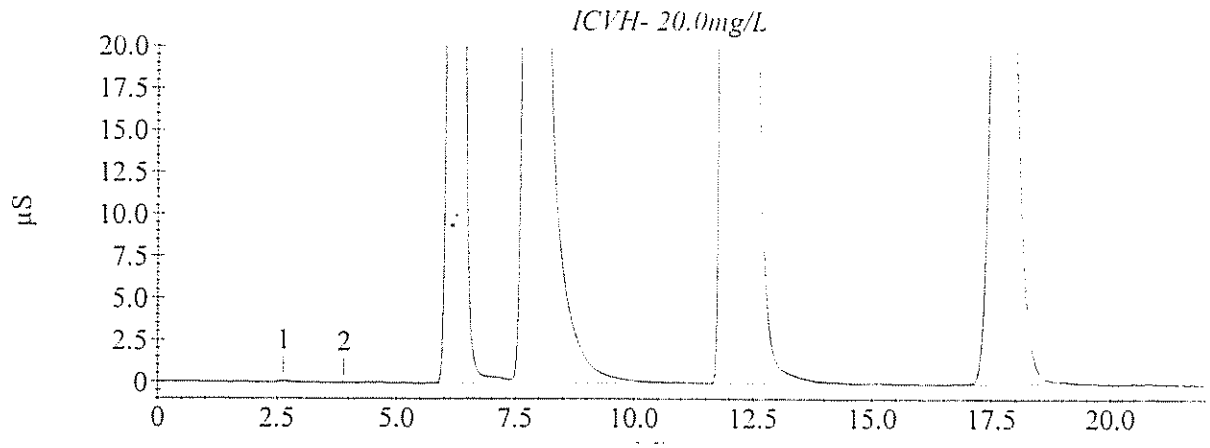
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090317\090317__003.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/17/09 11:17:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.90	0.502	4666	299
3	Chloride	6.23	20.424	25208156	1576650
4	Nitrite-N Bromide	7.87	22.400	37219684	1615721
5	Nitrate-N Phosphate-P	11.97	20.471	66132147	2245355
6	Sulfate	17.70	19.840	15638181	504871



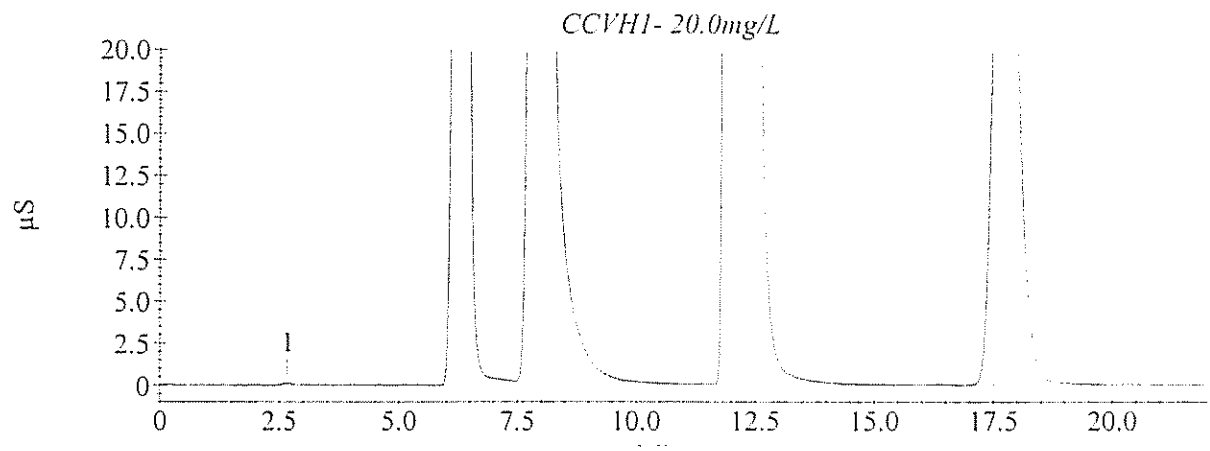
Sample Analysis Report

Sample Name : CCVH1- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090317\090317__014.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/17/09 4:05:58 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	14902	1128
2	Chloride	6.30	20.370	25135779	1566221
3	Nitrite-N Bromide	7.90	22.369	37171998	1546375
4	Nitrate-N Phosphate-P	12.00	20.251	65378045	2247351
5	Sulfate	17.70	19.658	15481190	500295



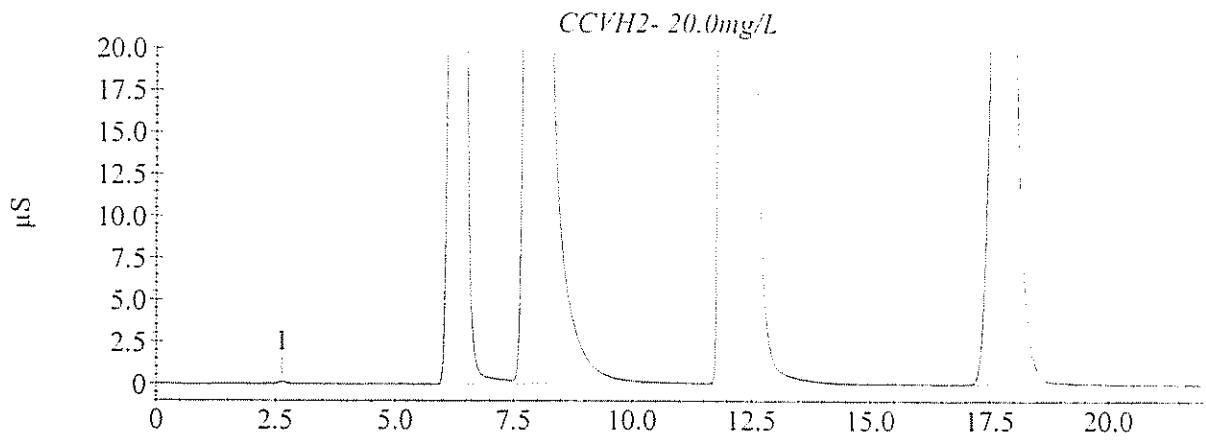
Sample Analysis Report

Sample Name : CCVH2- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090317\090317__028.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/17/09 9:57:31 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	24677	1369
2	Chloride	6.30	20.376	25143429	1558079
3	Nitrite-N Bromide	7.90	22.515	37396059	1482500
4	Nitrate-N Phosphate-P	12.00	20.233	65316612	2266987
5	Sulfate	17.73	19.631	15457798	504935



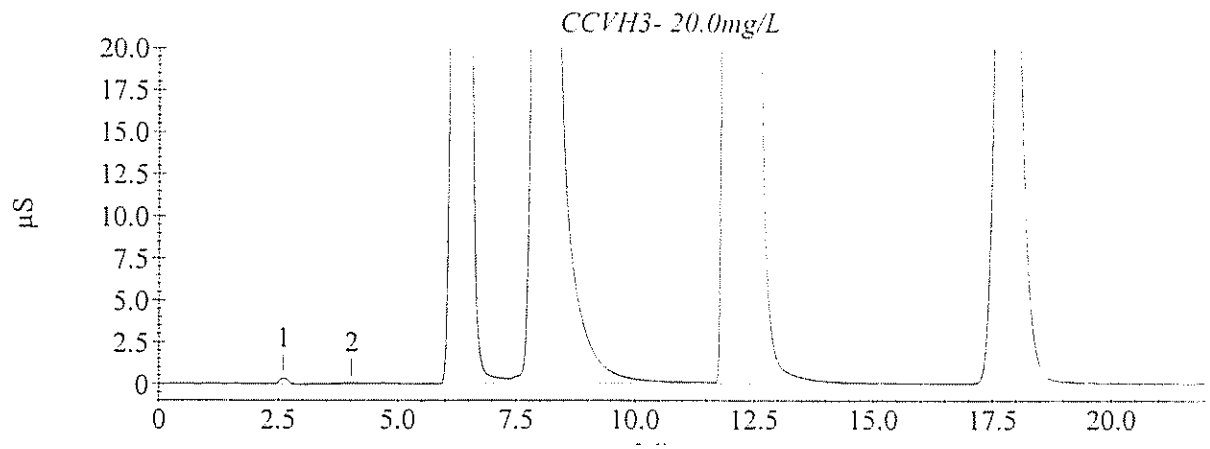
Sample Analysis Report

Sample Name : CCVH3- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090317\090317__032.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/17/09 11:38:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	4.03	0.515	26106	520
3	Chloride	6.37	20.664	25526976	1175023
4	Nitrite-N Bromide	8.10	23.138	38354336	1704541
5	Nitrate-N Phosphate-P	12.00	20.975	67859239	2338079
6	Sulfate	17.77	20.414	16133796	534696



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

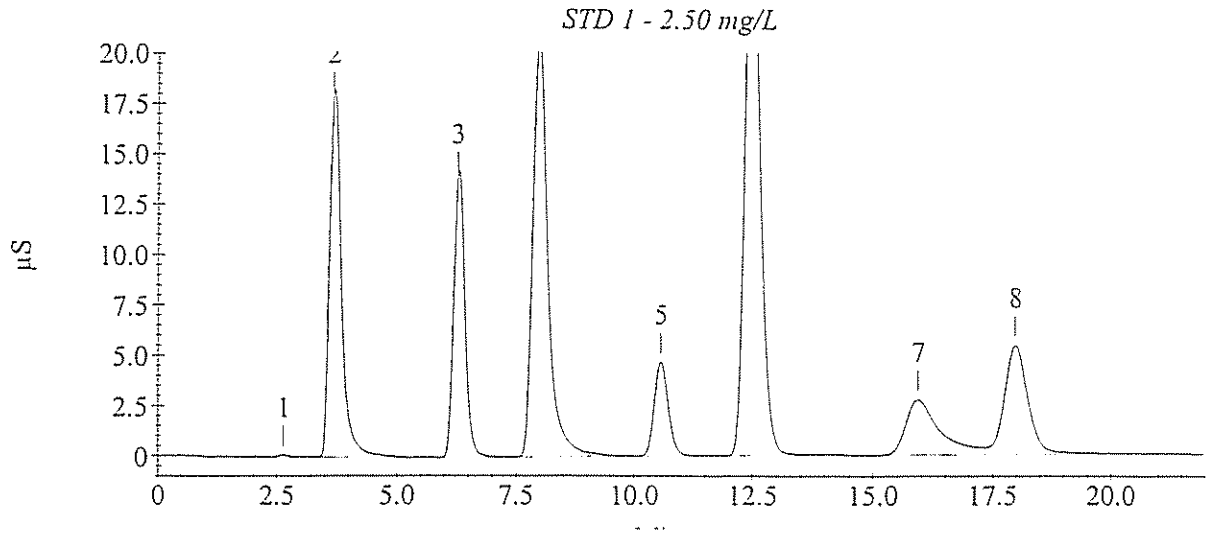
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



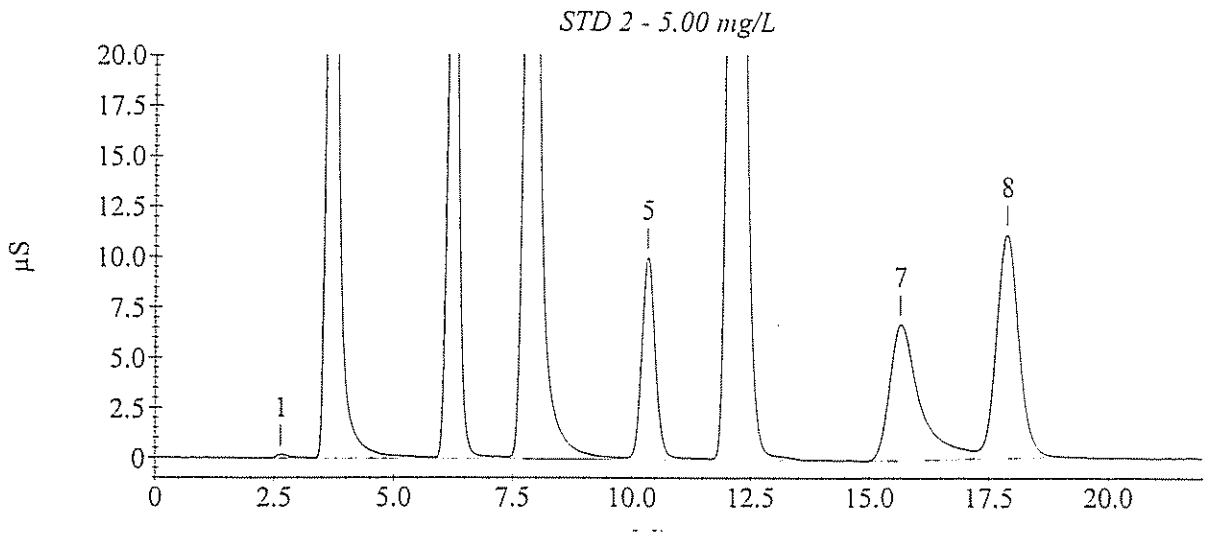
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077



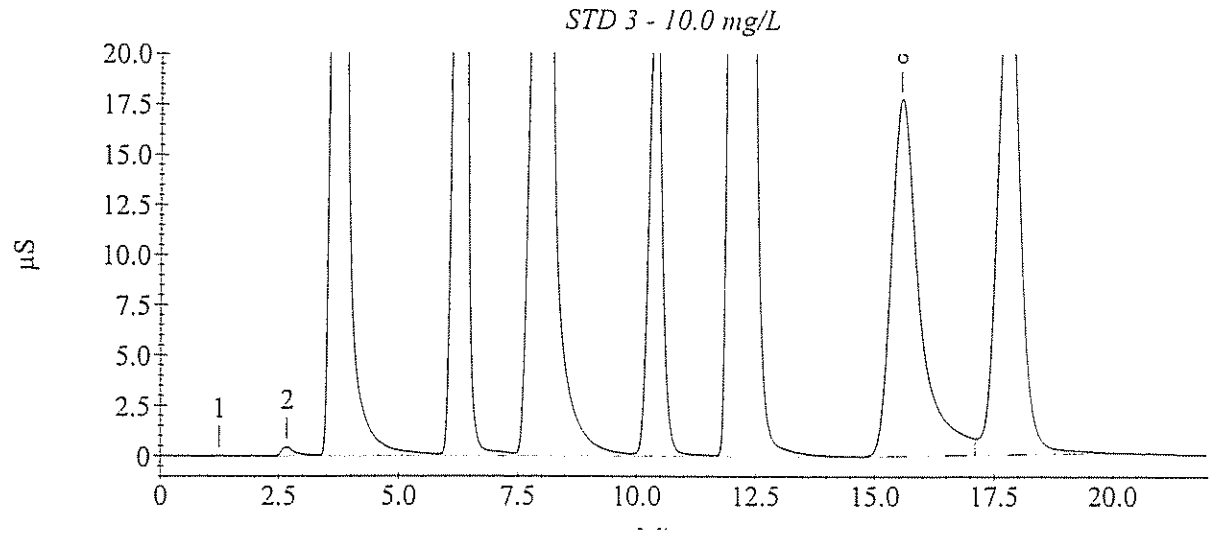
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944



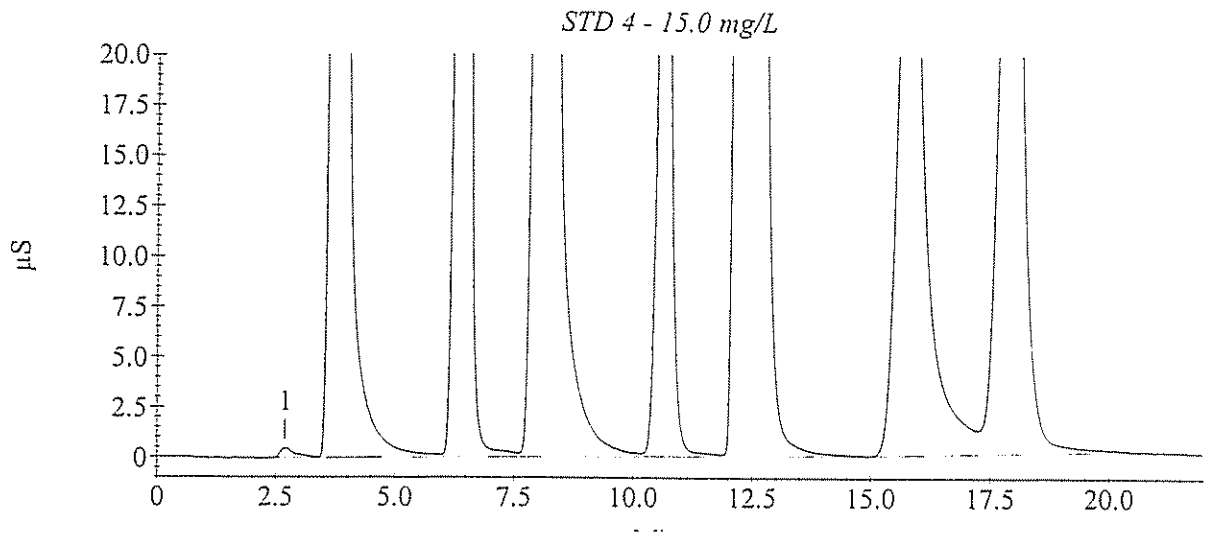
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



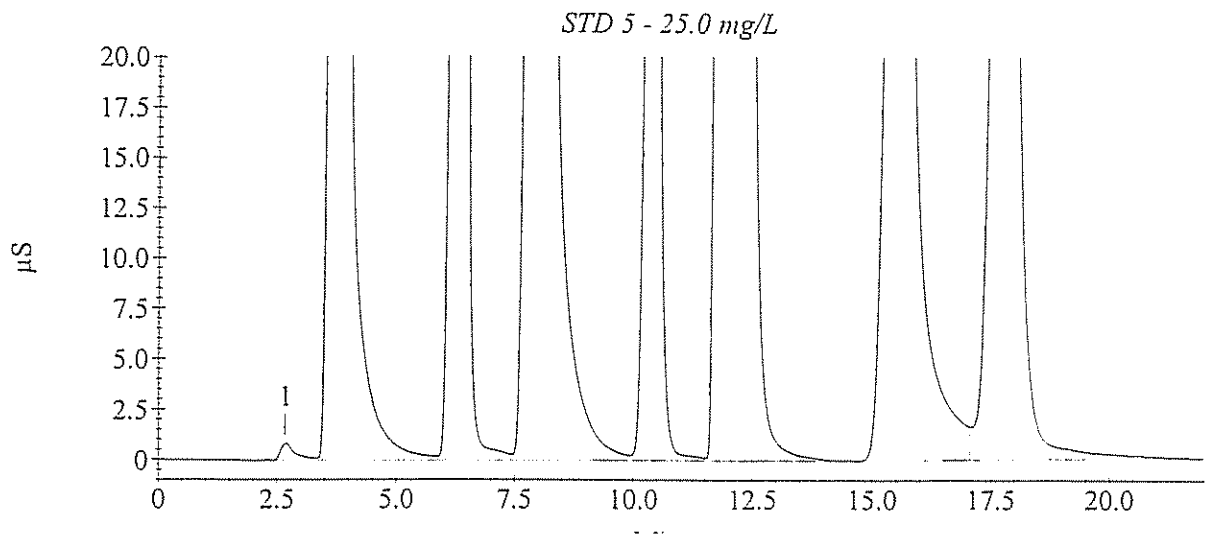
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



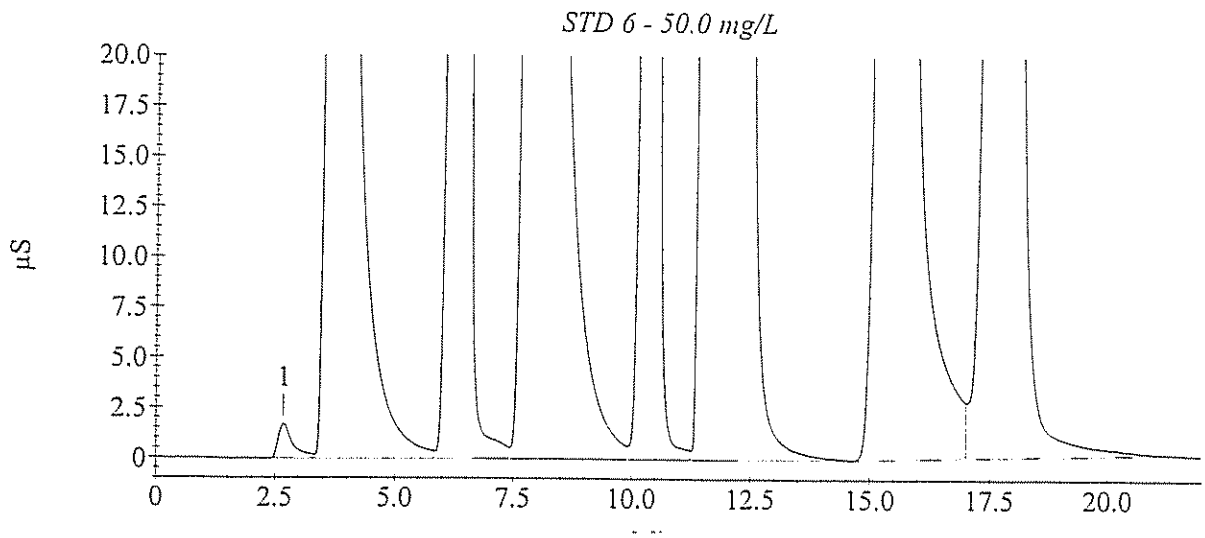
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829



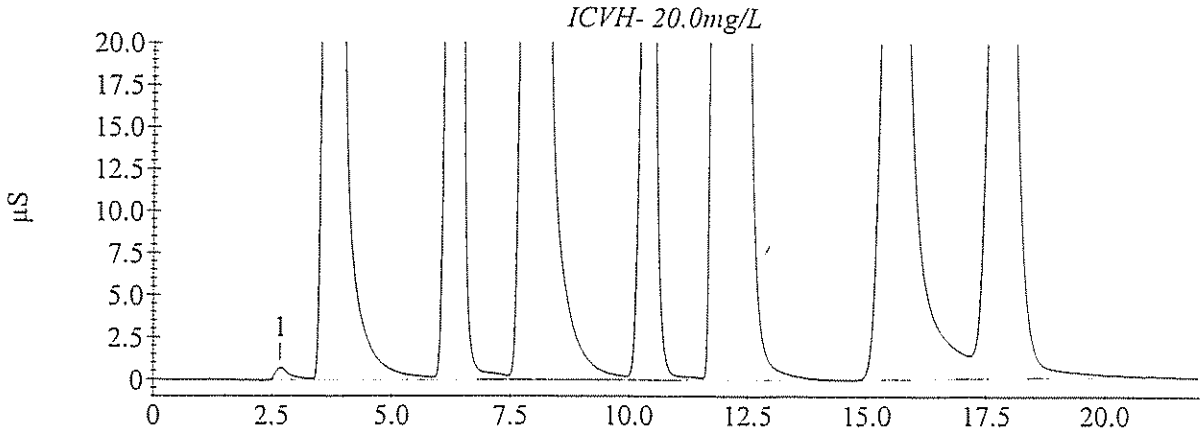
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



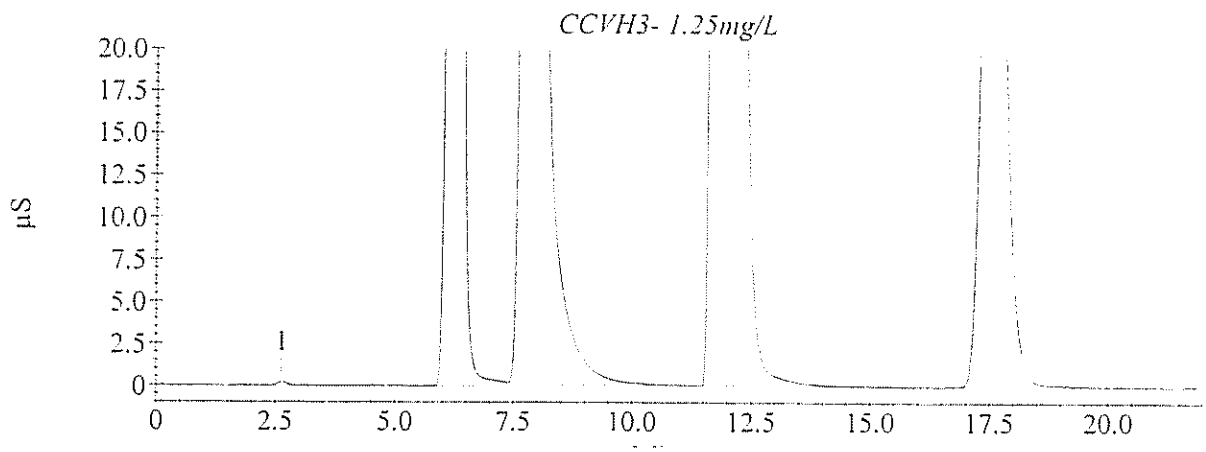
Sample Analysis Report

Sample Name : CCVH3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090328\090328__042.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 3:54:12 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	29647	2011
2	Chloride	6.23	20.074	25707389	1541845
3	Nitrite-N Bromide	7.83	26.640	37789928	1562912
4	Nitrate-N Phosphate-P	11.77	20.035	67018912	2304832
5	Sulfate	17.53	17.285	15959580	524488



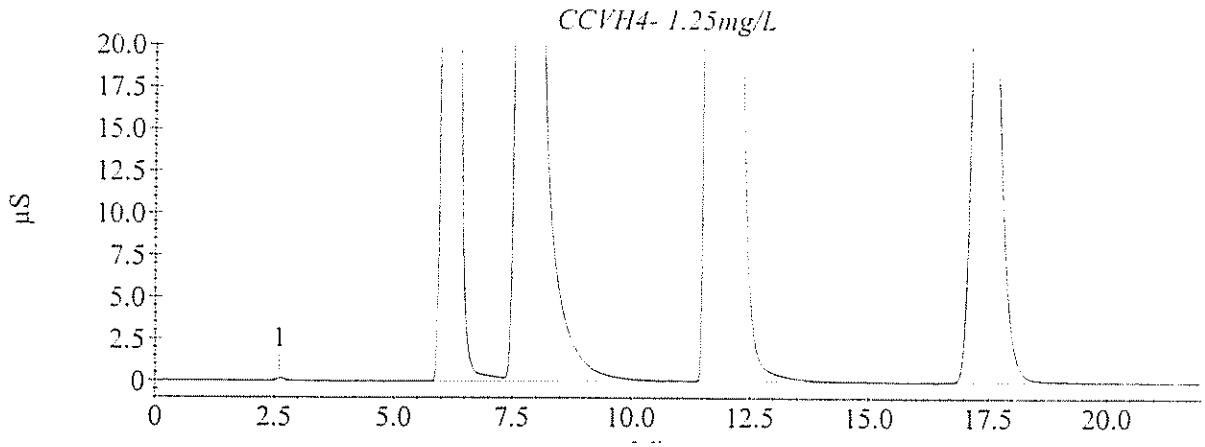
Sample Analysis Report

Sample Name : CCVH4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090328\090328__055.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 9:19:44 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	22499	1536
2	Chloride	6.20	19.997	25601754	1570159
3	Nitrite-N Bromide	7.77	26.513	37625575	1588365
4	Nitrate-N Phosphate-P	11.70	20.015	66947568	2303067
5	Sulfate	17.40	17.202	15874923	522556



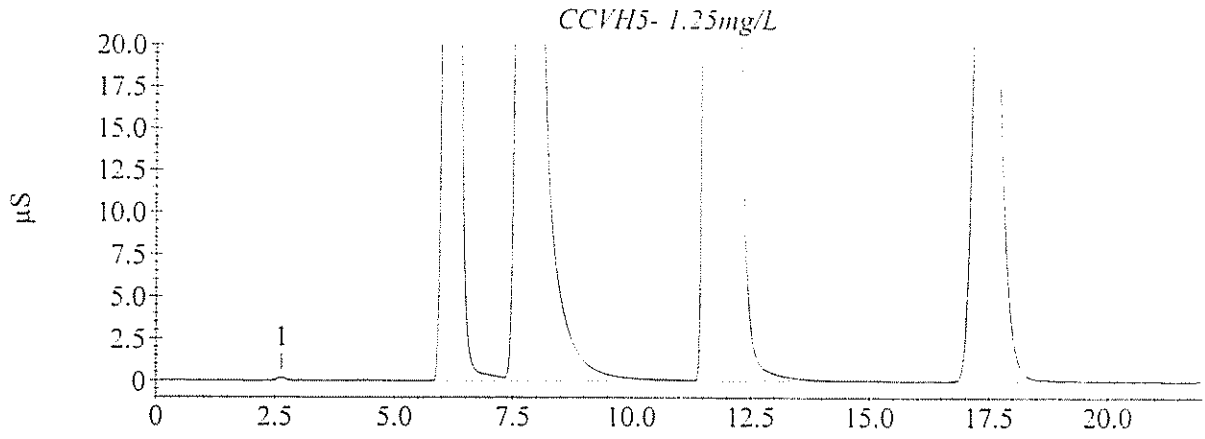
Sample Analysis Report

Sample Name : CCVH5- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090328\090328__066.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 1:55:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	22596	1648
2	Chloride	6.17	19.890	25454281	1498286
3	Nitrite-N Bromide	7.77	26.453	37549367	1584197
4	Nitrate-N Phosphate-P	11.67	19.876	66455879	2338720
5	Sulfate	17.40	17.089	15759666	520734



D. Raw QC Data

1. Extraction Logsheet (where applicable)

2. Injection Logsheet (where applicable)

GPL Laboratories, LLLP

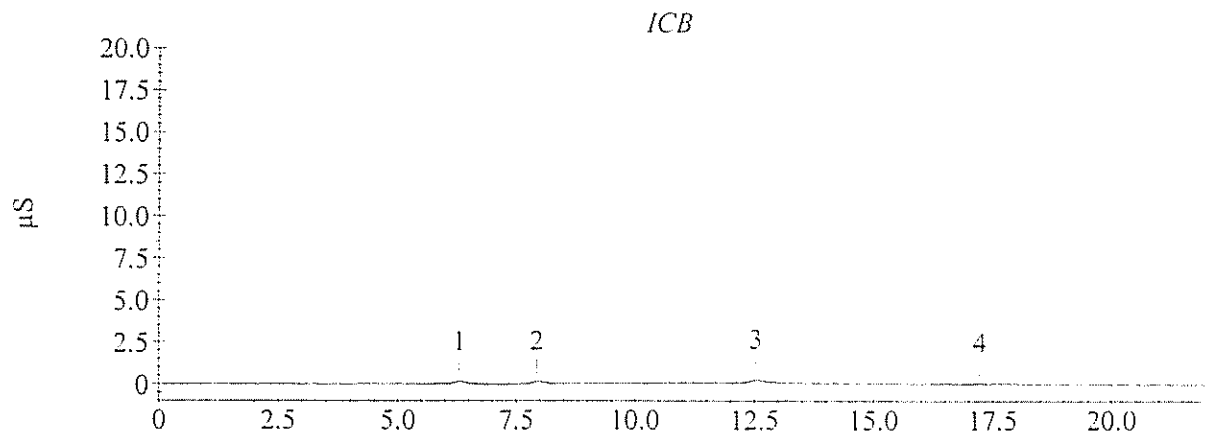
Sample Analysis Report

Sample Name : ICB
Data File Name : I:\ICDATA\IC500\090317\090317__004.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 11:42:54 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Chloride	6.30	0.067	41618	1463
1	Chloride	6.30	0.067	41618	1463
2	Nitrite-N Bromide	7.93	0.046	29455	1377
3	Nitrate-N	12.53	0.083	38609	1609
4	Phosphate-P Sulfate	17.23	0.044	4368	292



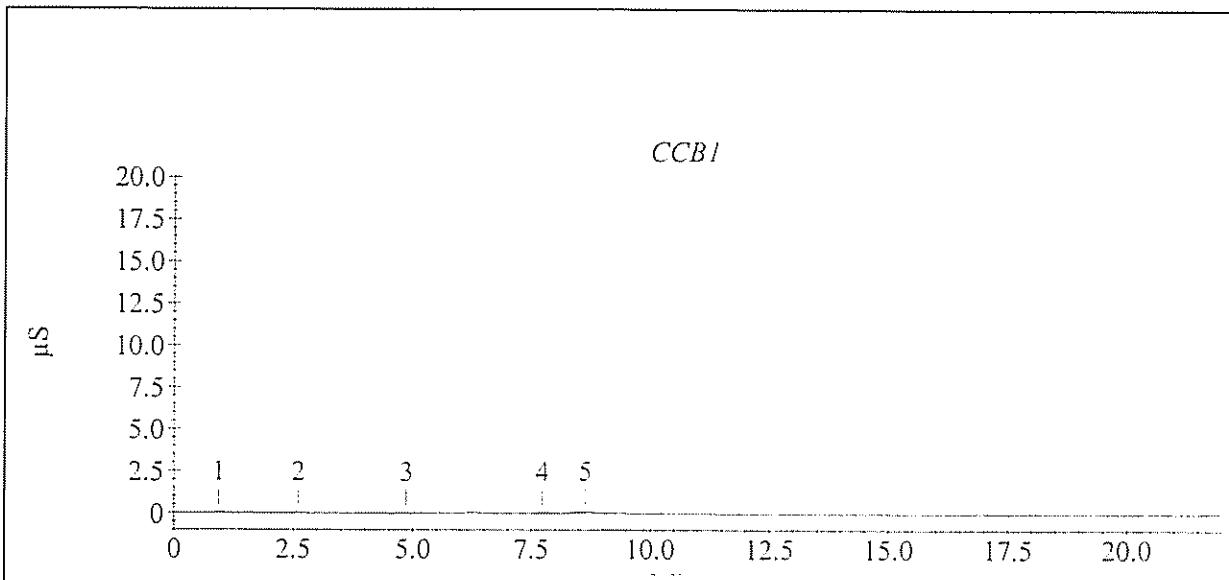
Sample Analysis Report

Sample Name : CCB1
Data File Name : I:\ICDATA\IC500\090317\090317__015.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 4:31:03 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Chloride	0.93	0.000	6829	447
5	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	8.63	0.040	20049	618



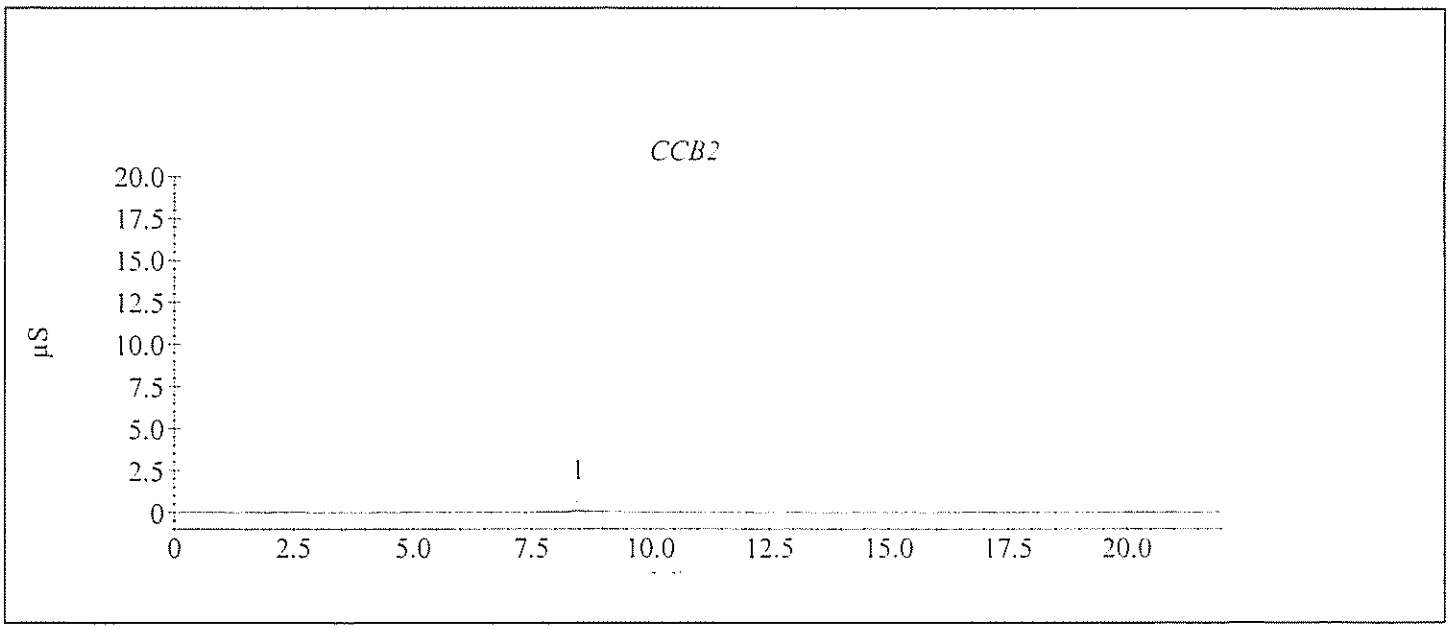
Sample Analysis Report

Sample Name : CCB2
Data File Name : I:\ICDATA\IC500\090317\090317__029.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 10:22:40 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Nitrite-N Chloride	8.47	0.042	23902	708
1	Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	8.47	0.042	23902	708



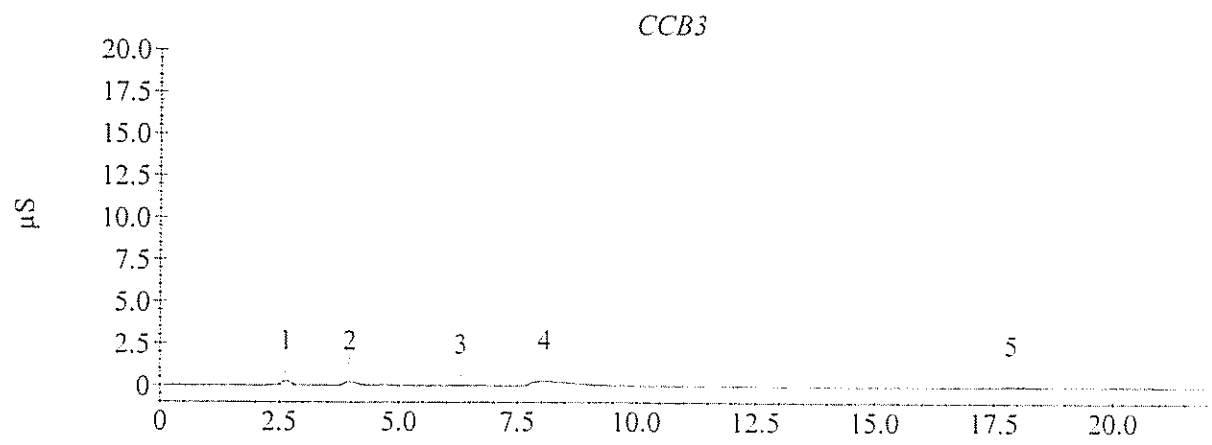
Sample Analysis Report

Sample Name : CCB3
Data File Name : I:\ICDATA\IC500\090317\090317__033.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/18/09 12:03:05 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.97	0.073	42839	2248
3	Chloride	6.30	0.026	6477	380
4	Nitrite-N	8.07	0.120	161453	2797
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



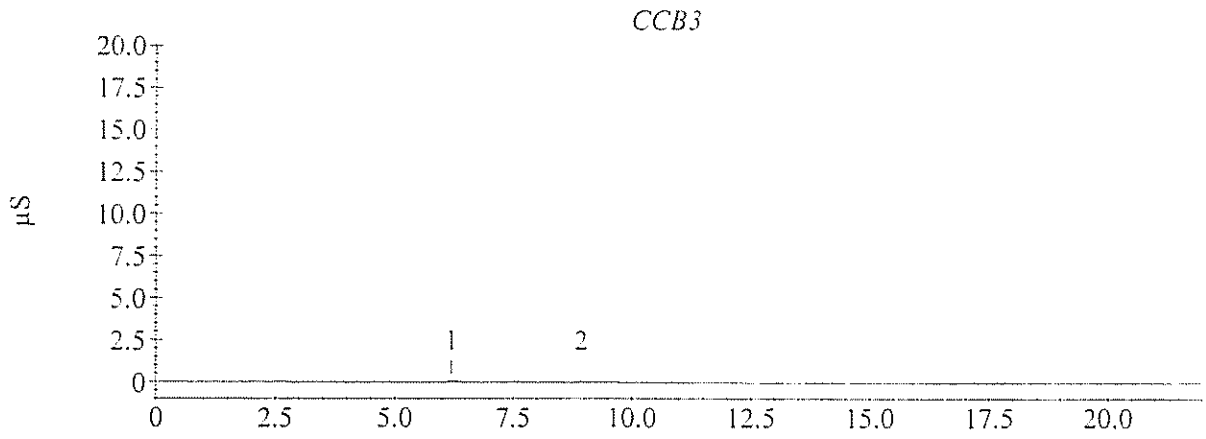
Sample Analysis Report

Sample Name : CCB3
Data File Name : I:\ICDATA\IC500\090328\090328__043.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/29/09 4:19:15 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Chloride	6.20	0.032	14674	644
1	Chloride	6.20	0.032	14674	644
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



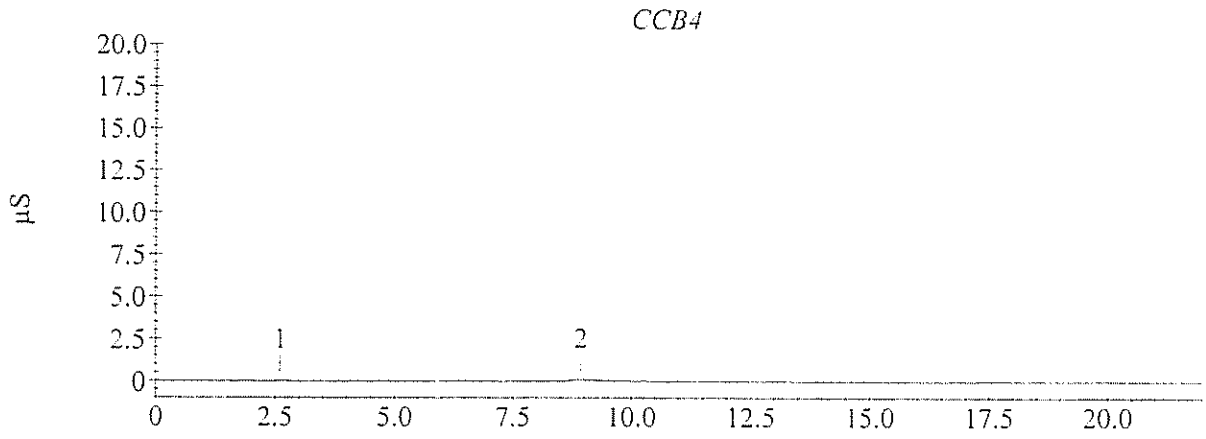
Sample Analysis Report

Sample Name : CCB4
Data File Name : I:\ICDATA\IC500\090328\090328__056.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/29/09 9:44:42 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Chloride Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	2.60	0.000	9901	639



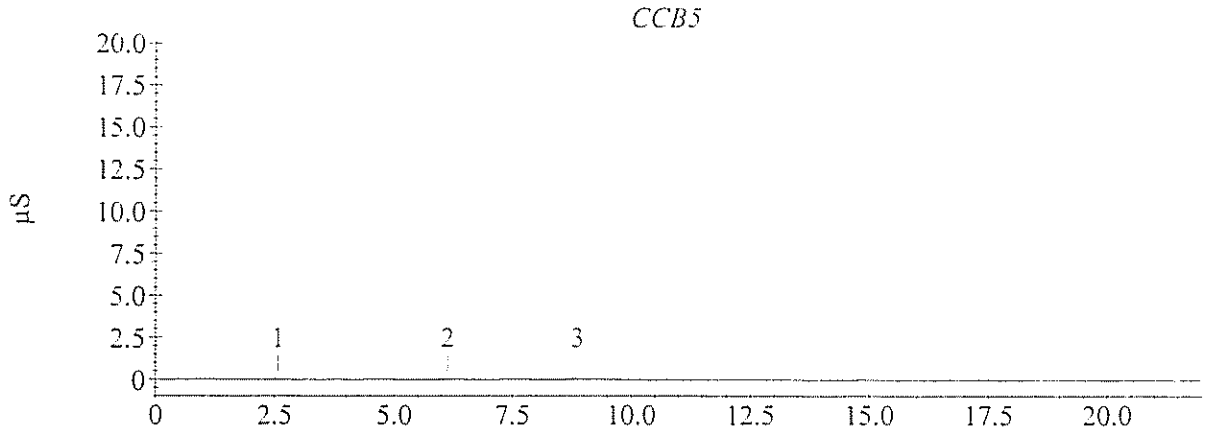
Sample Analysis Report

Sample Name : CCB5
Data File Name : I:\ICDATA\IC500\090328\090328__067.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/29/09 2:20:00 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.57	0.000	6319	380
2	Chloride	6.13	0.023	6586	409
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
	Sulfate				



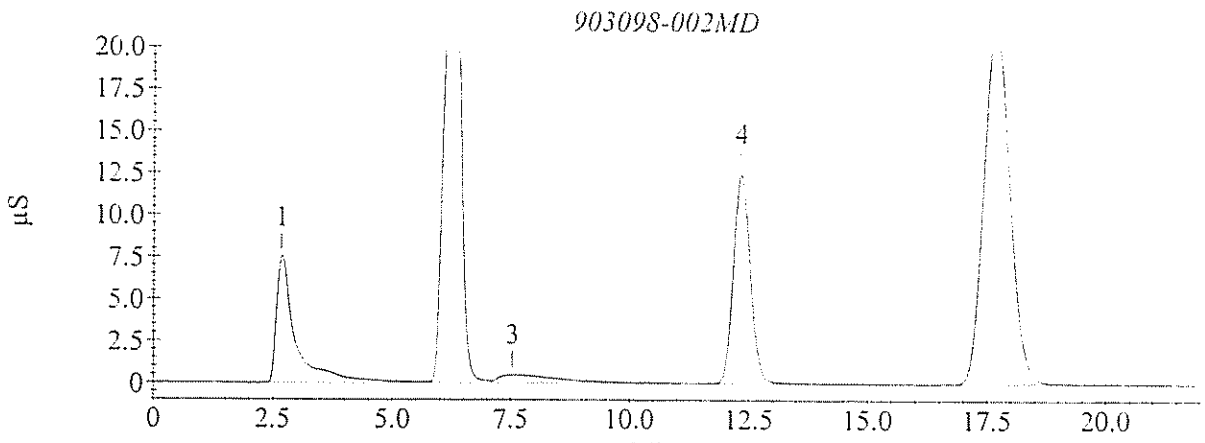
Sample Analysis Report

Sample Name : 903098-002MD
Data File Name : I:\ICDATA\IC500\090317\090317__018.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/17/09 5:46:22 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.665	2109285	74025
2	Chloride	6.30	7.683	6566683	264517
	Nitrite-N				
	Bromide				
4	Nitrate-N	12.33	1.322	3094959	123905
	Phosphate-P				
5	Sulfate	17.67	13.191	8095681	212923



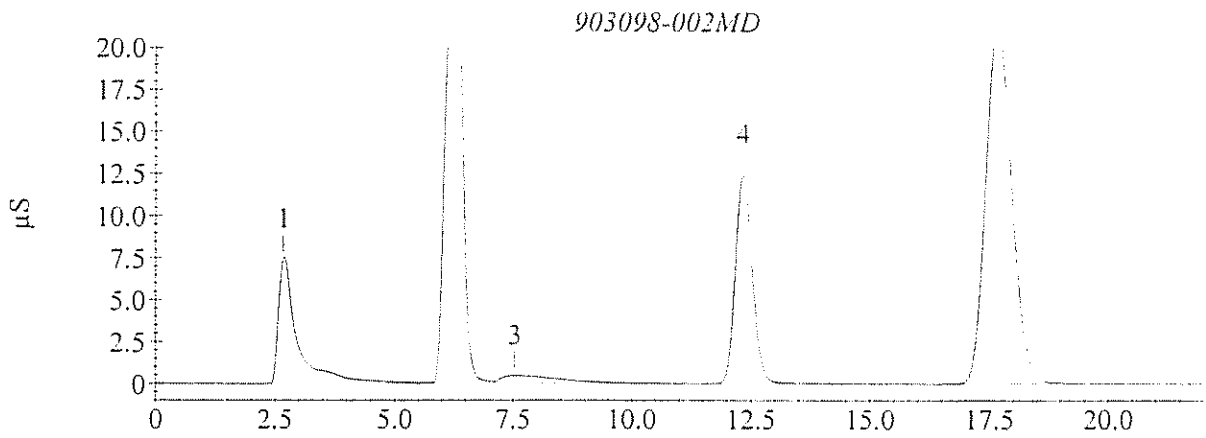
Sample Analysis Report

Sample Name : 903098-002MD
Data File Name : I:\ICDATA\IC500\090317\090317__018.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 5:46:22 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.67	1.799	2109285	74025
2	Chloride	6.30	6.398	6566683	264517
	Nitrite-N				
	Bromide				
4	Nitrate-N	12.33	2.089	3094959	123905
	Phosphate-P				
5	Sulfate	17.67	11.104	8095681	212923



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-071-1/3MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.3	
14797-55-8	Nitrate	2.4	
7727-37-9	Nitrite	1.2	

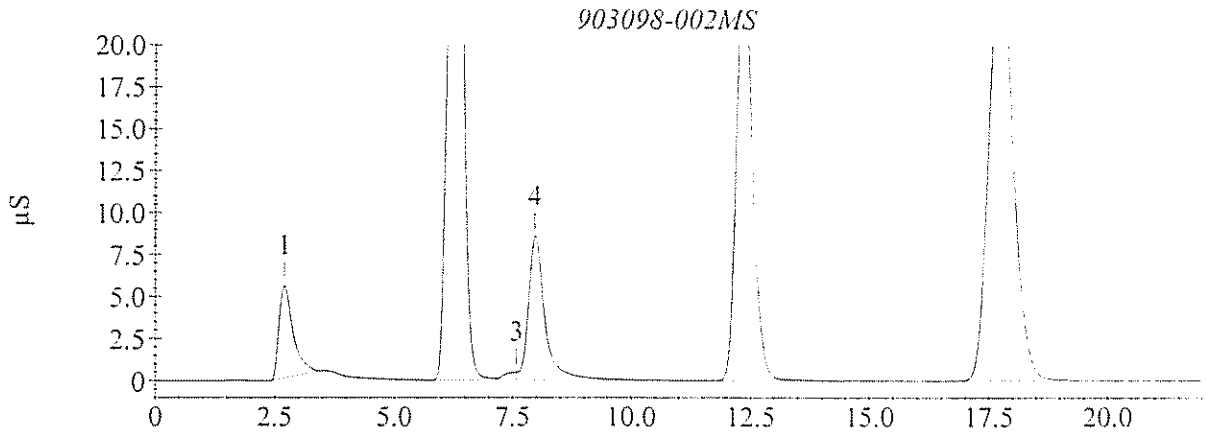
Sample Analysis Report

Sample Name : 903098-002MS
Data File Name : I:\ICDATA\IC500\090317\090317__019.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/17/09 6:11:30 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	0.913	1132711	54486
2	Chloride	6.33	9.136	7811460	333784
4	Nitrite-N	7.97	1.181	2045417	84802
	Bromide				
5	Nitrate-N	12.33	2.443	5860885	242698
	Phosphate-P				
6	Sulfate	17.73	14.740	9047958	257170



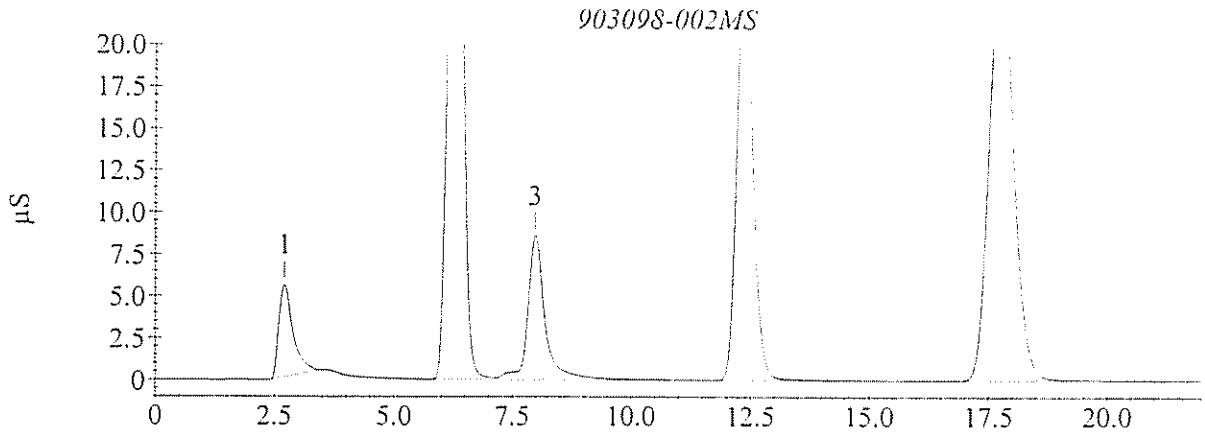
Sample Analysis Report

Sample Name : 903098-002MS
Data File Name : I:\ICDATA\IC500\090317\090317__019.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 6:11:30 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.193	1132711	54486
2	Chloride	6.33	7.336	7813223	333801
3	Nitrite-N	7.97	-0.407	2138389	84871
	Bromide				
4	Nitrate-N	12.33	2.895	5860885	242698
	Phosphate-P				
5	Sulfate	17.73	12.207	9047958	257170



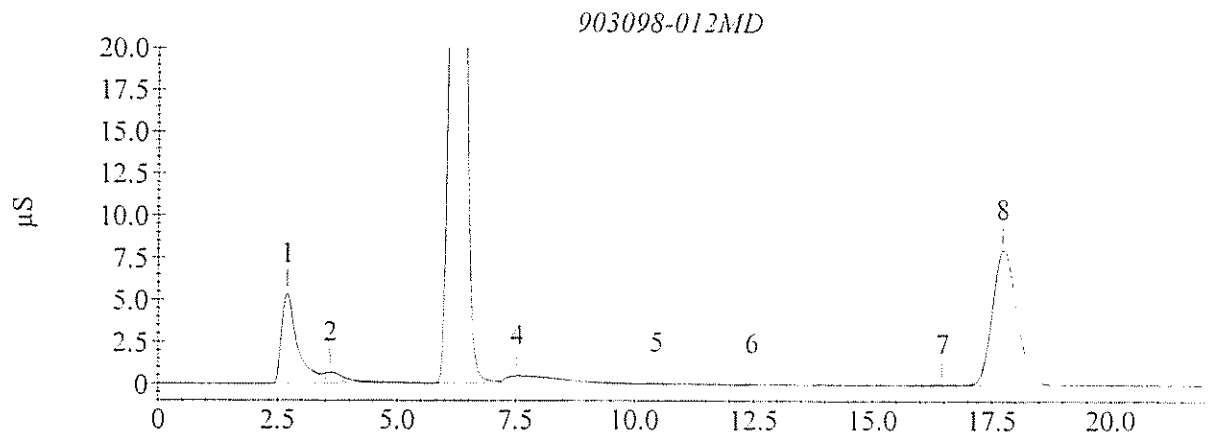
Sample Analysis Report

Sample Name : 903098-012MD
Data File Name : I:\ICDATA\IC500\090317\090317__026.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/17/09 9:07:15 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.139	128386	4051
3	Chloride	6.30	11.553	9881859	424903
	Nitrite-N				
5	Bromide	10.47	0.054	13032	532
6	Nitrate-N	12.47	0.070	6779	289
7	Phosphate-P	16.47	0.052	10526	232
8	Sulfate	17.73	4.689	2868140	79854



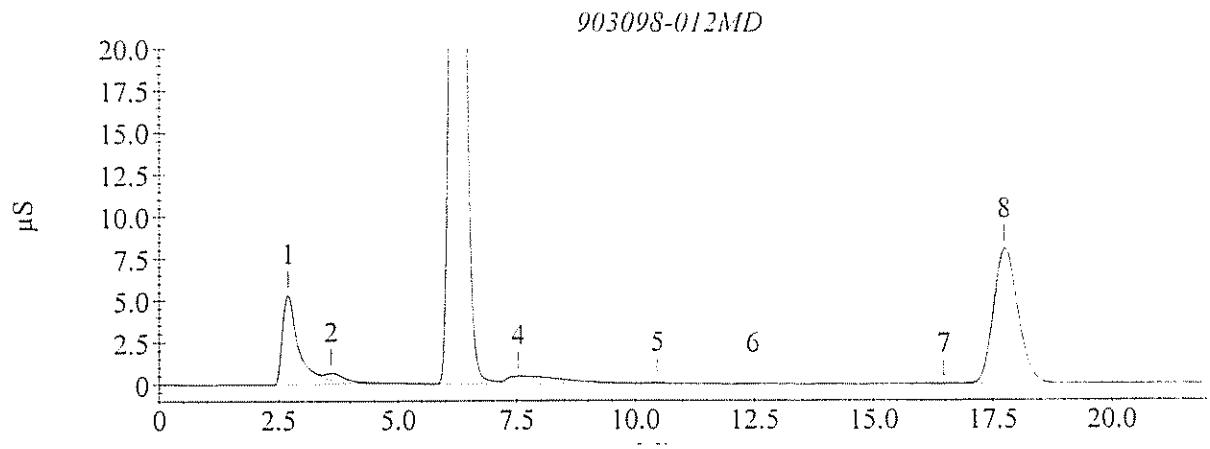
Sample Analysis Report

Sample Name : 903098-012MD
Data File Name : I:\ICDATA\IC500\090317\090317__026.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 9:07:15 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.578	128791	4064
3	Chloride	6.30	8.892	9881859	424903
	Nitrite-N				
	Bromide				
6	Nitrate-N	12.47	1.188	6779	289
7	Phosphate-P	16.47	1.840	10526	232
8	Sulfate	17.73	5.050	2868140	79854



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-068-1/3MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/17/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/17/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	18	
14797-55-8	Nitrate	1.1	
7727-37-9	Nitrite	1.3	

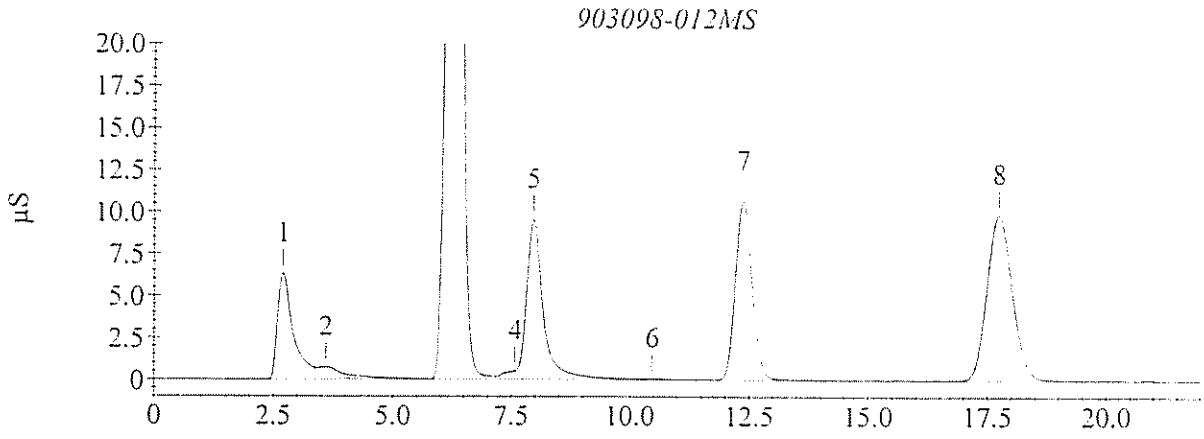
Sample Analysis Report

Sample Name : 903098-012MS
Data File Name : I:\ICDATA\IC500\090317\090317__030.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917L-300-0.met
Date Time Collected : 3/17/09 10:47:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.192	196701	4454
3	Chloride	6.30	13.025	11142800	465389
5	Nitrite-N	7.97	1.344	2335562	94975
6	Bromide	10.47	0.063	16508	499
7	Nitrate-N Phosphate-P	12.37	1.125	2611175	106466
8	Sulfate	17.73	5.957	3647990	98525



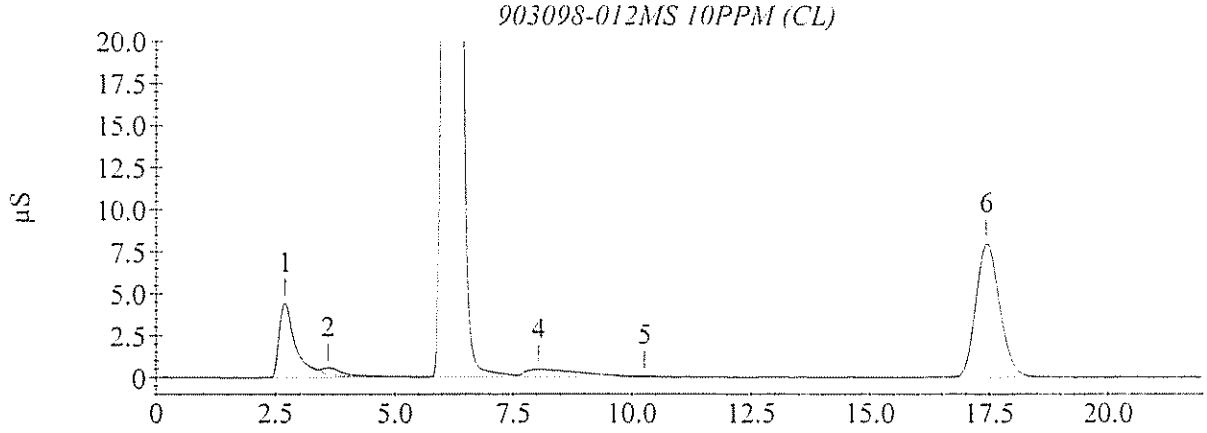
Sample Analysis Report

Sample Name : 903098-012MS 10PPM (CL)
Data File Name : I:\ICDATA\IC500\090328\090328__064.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 1:05:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.696	120593	3654
3	Chloride Nitrite-N	6.20	17.883	22694502	1022833
5	Bromide Nitrate-N Phosphate-P	10.27	1.938	13677	557
6	Sulfate	17.43	4.375	2747793	79370



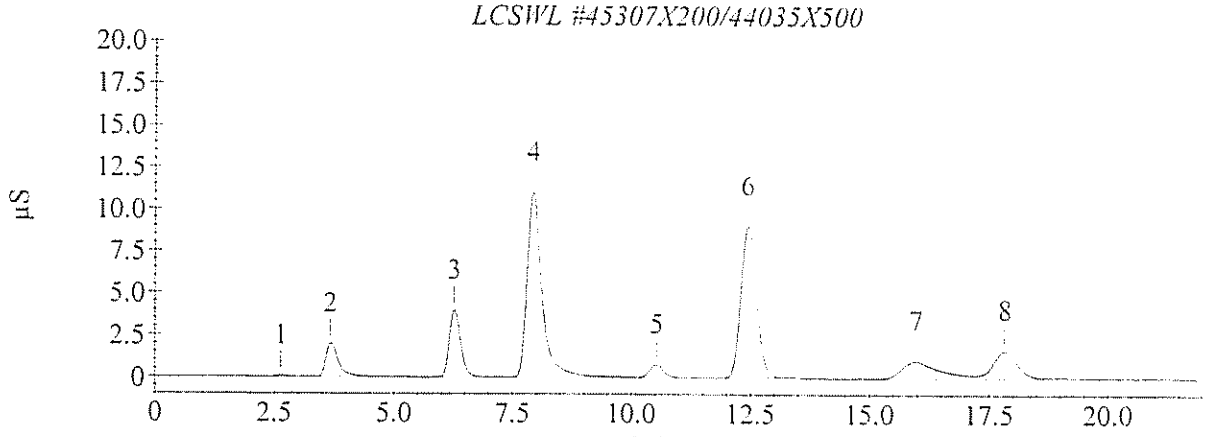
Sample Analysis Report

Sample Name : LCSWL #45307X200/44035X500
Data File Name : I:\ICDATA\IC500\090317\090317__009.DXD

Method File Name : h:\icdata\methods\method 300\080917l-300-0.met
Date Time Collected : 3/17/09 1:48:34 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.317	359800	19472
3	Chloride	6.27	0.792	662614	39353
4	Nitrite-N	7.93	1.401	2436755	109804
5	Bromide	10.53	0.463	163057	7735
6	Nitrate-N	12.43	0.891	2032558	89963
7	Phosphate-P	15.97	0.743	552350	10298
8	Sulfate	17.83	0.940	563419	16072



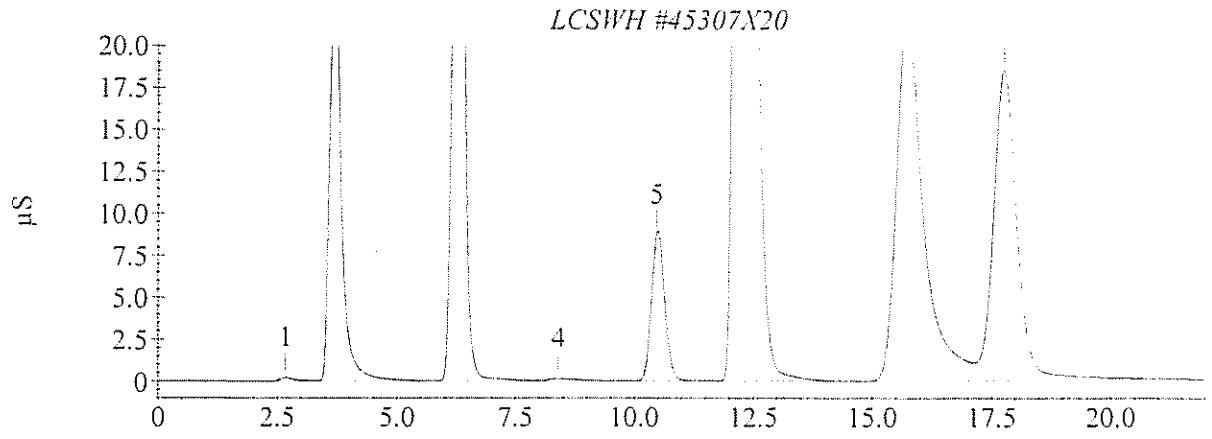
Sample Analysis Report

Sample Name : LCSWH #45307X20
Data File Name : I:\ICDATA\IC500\090317\090317__010.DXD

Method File Name : h:\icdata\methods\method 300\080917h-300-0.met
Date Time Collected : 3/17/09 2:13:39 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	3.149	4243388	235507
3	Chloride	6.27	7.701	8299439	515480
4	Nitrite-N	8.40	-1.760	56952	1346
5	Bromide	10.47	5.028	1714817	86755
6	Nitrate-N	12.20	9.101	27142773	1097478
7	Phosphate-P	15.73	8.961	8581465	222408
8	Sulfate	17.77	9.096	6361890	184107



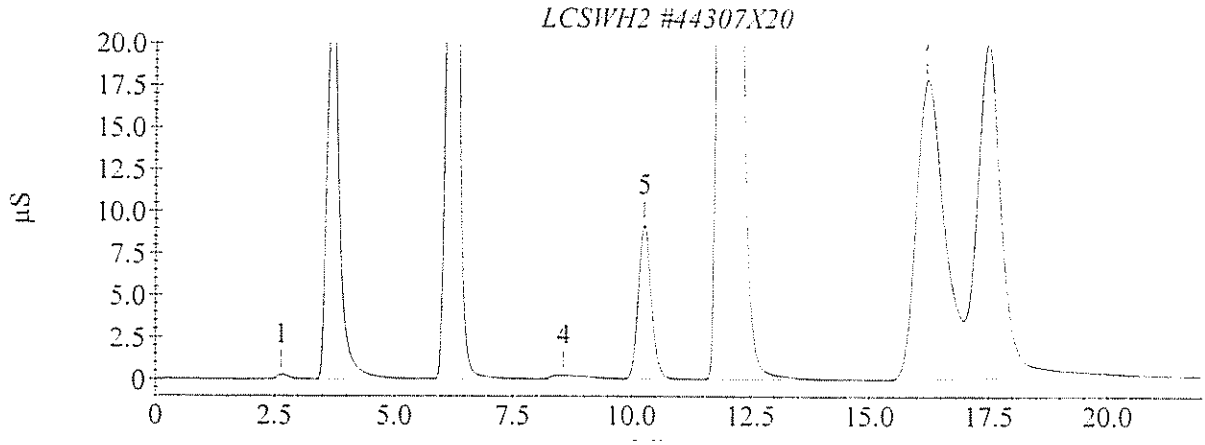
Sample Analysis Report

Sample Name : LCSWH2 #44307X20
Data File Name : I:\ICDATA\IC500\090328\090328__051.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 7:39:34 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	3.215	4191735	226874
3	Chloride	6.20	7.434	8324120	502986
4	Nitrite-N	8.57	-2.629	131026	2221
5	Bromide	10.27	4.969	1756648	91396
6	Nitrate-N	11.93	8.849	27432006	1137442
	Phosphate-P				
8	Sulfate	17.47	8.826	7303030	197522



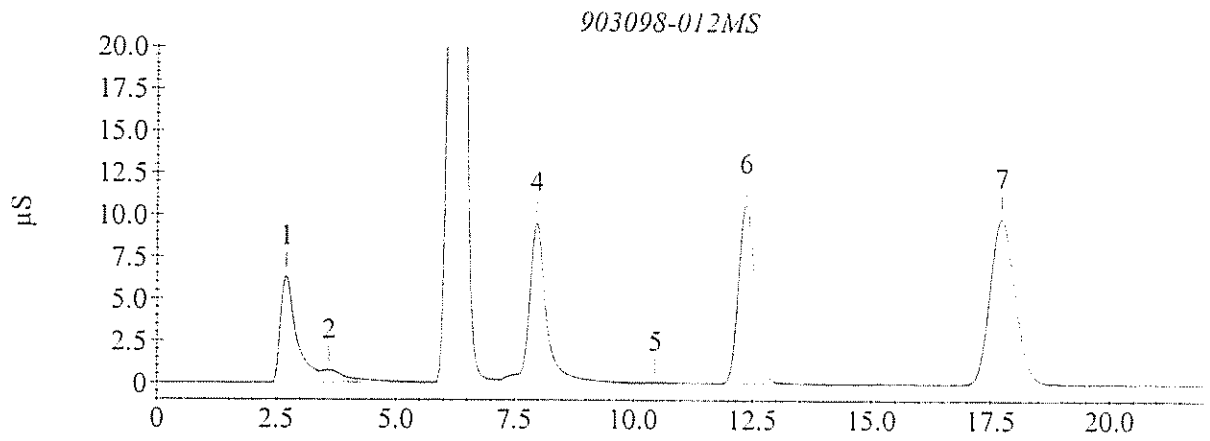
Sample Analysis Report

Sample Name : 903098-012MS
Data File Name : I:\ICDATA\IC500\090317\090317__030.DXD

Method File Name : H:\icdata\METHODS\METHOD 300\080917H-300-0.met
Date Time Collected : 3/17/09 10:47:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.640	231728	4628
3	Chloride	6.30	9.855	11161432	465618
4	Nitrite-N Bromide	7.97	-0.210	2441717	95125
6	Nitrate-N Phosphate-P	12.37	1.947	2611175	106466
7	Sulfate	17.73	5.953	3647990	98525



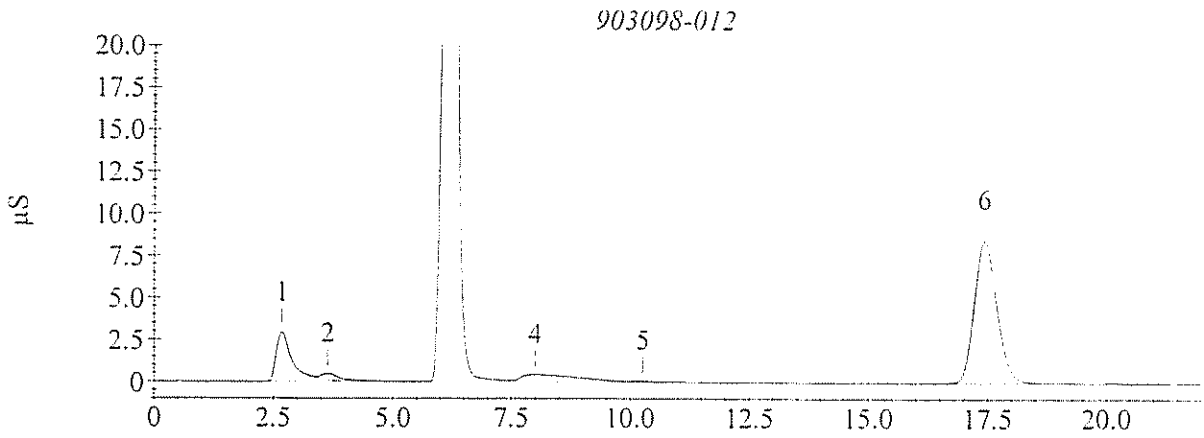
Sample Analysis Report

Sample Name : 903098-012
Data File Name : I:\ICDATA\IC500\090328\090328__062.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 12:14:57 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.63	0.685	102565	3769
3	Chloride	6.20	8.345	9576779	451328
	Nitrite-N				
5	Bromide	10.27	1.940	15105	559
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.43	4.424	2798413	84809



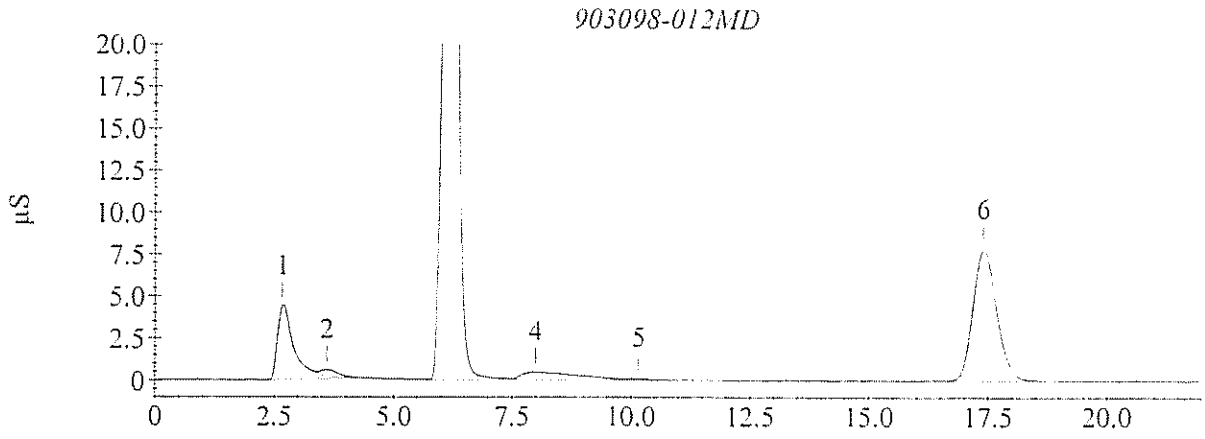
Sample Analysis Report

Sample Name : 903098-012MD
Data File Name : I:\ICDATA\IC500\090328\090328__063.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/29/09 12:40:02 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.679	93731	3530
3	Chloride	6.20	8.083	9217172	414361
	Nitrite-N				
5	Bromide	10.17	1.938	14051	599
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.40	4.332	2703599	77754



ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date: _____

Analytes(s):	F, Cl, NO_2-N, Br, NO_3-N, PO_4, SO_4
Analysis Method:	E300
Backpressure:	2031 psi Conductivity: 23.068 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #013201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 080917L-300.0.met/080917H-300.0.met ICAL Date: 9/17/08 Analyst: ICSA

Seq. ID. 080917-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
080917-001.dxd	Rinse				
2	Rinse				
3	Std1 - Col Blank	1	Std	9/17/08	080917L
4	Std 2 - 0.10 mg/L	1			
5	Std 3 - 0.25 mg/L	1			
6	Std 4 - 0.50 mg/L	1			
7	Std 5 - 1.00 mg/L	1			
8	Std 6 - 2.50 mg/L	1			↓
9	Std 1 - 2.50 mg/L	1			080917H
10	Std 2 - 5.00 mg/L	1			
11	Std 3 - 10.0 mg/L	1			
12	Std 4 - 15.0 mg/L	1			
13	Std 5 - 25.0 mg/L	1			
14	Std 6 - 50.0 mg/L	1			↓
15	ICVL - 1.25 mg/L	1			
16	ICVH - 20.0 mg/L	1			
17	ICB	1	↓		
18	LCSWL #43967x125 / #44035x500	125/500			
19	LCSWH #43967x10	10	↓	↓	
20	809080-001	1	H_2O	9/18/08	
21	-001MA	1			
22	-001MS	1	↓		
23	CCVL1 - 1.25 mg/L	1	Std		
24	CCVH1 - 20.0 mg/L	1			
080917-025.dxd	CCB1	1	↓	↓	

Remarks

★ #43967 N.V.'s (mg/L)

F = 10.6
Cl = 264
NO_3-N = 52.4
SO_4 = 202

Std / Eluent	-Lot# / Conc. / Prep. date
Carbonate eluent	43991 9mM 8/25/08
Mixed Anions Stock Std	43504 100 PPM 6/26/08
Mixed Anions QC std	43967 ★ exp's 7/1/10
Nitrate QC Std	44035 732 mg/L exp's 8/1/10
Mixed Anions ~~Std~~ Stock (ICV)	44123 100 ppm 9/17/08

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500   Reviewed By: ____   Review Date: ____

Analytes(s):	F, Cl, SO_4, Br, NO_3-N, PO_4-P, NO_2-N
Analysis Method:	E300
Backpressure:	2200psi Conductivity: 23.741µS
Injection Volume:	200µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #013201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.met / 090318H-300-0.met   ICAL Date: 3/18/09   Analyst: JCSA

Seq. ID. 090318-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090318-001.dxd	Rinse	—	—	—	
2	ICVLA-1.25 mg/L	1	Std	3/18/09	
3	ICVLB-1.25 mg/L	1			
4	ICB	1			
5	Std1-BLK	1			090318L
6	Std2-0.10 mg/L	1			
7	Std3-0.25 mg/L	1			
8	Std4-0.50 mg/L	1			
9	Std5-1.00 mg/L	1			
10	Std6-2.50 mg/L	1			
11	Std1-2.50 mg/L	1			090318H
12	Std2-5.00 mg/L	1			
13	Std3-10.0 mg/L	1			
14	Std4-15.0 mg/L	1			
15	Std5-25.0 mg/L	1			
16	Std6-50.0 mg/L	1			
17	ICVL-1.25 mg/L	1			
18	ICVH-20.0 mg/L	1			
19	ICB	1			
20	BLK903095	1	wipe		
21	BKS903095	1			
22	903095-001	1			
23	BLK903105	1			
24	BKS903106	1			
25	903105-001	1			
26	-002	1			
090318-027.dxd	-003	1		3/18/09	

Remarks

☆ # 45307 T.V.'s (mg/L)
Cl: 157.8
NO_3-N: 187.2
SO_4 = 168.6

Std / Eluent	Lot#	Conc.	Prep. date
Carbonate Eluent	45373	9mM	3/12/09
Mixed Anions Stock Std (Curve)	45405	100 mg/L	3/18/09
Mixed Anions Stock Std (ICV/CCV)	45026	100 mg/L	1/26/09
Mixed Anions QC Std	45307	☆	exp's 11/1/11
Nitrite QC Std	44035	732 mg/L	exp's 8/1/10

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By: _____ Review Date: _____

Analytes(s):	Cl, SO_4, NO_2-N, NO_3-N
Analysis Method:	E300.1
Backpressure:	2174 psi Conductivity: 23.712 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	—
Eluent level check:	—

Guard Column ID:	AG9-HC #013207
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090317L-300-0.met/IC801174_300-0.met ICAL Date: 9/17/08 Analyst: KSA

Seq. ID. 090317-350.seq

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090317-001.ckd	Rinse	—	—	—	
2	ICVL-1.25 mg/L	1	Std	3/17/09	
3	ICVH-20.0 mg/L	1	↓	↓	
4	ICB	1	↓		
5	903098-005	1	H_2O		
6	-006	1	↓		
7	-006	1			
8	-007	1	↓		
9	LCSWL #45307x200/#44035x500	200/50	Std		
10	LCSWH #45307x20	20	↓		
11	903098-001	1	H_2O		
12	902149-003	1	↓		
13	-004	1	↓		
14	CCVH1-20.0 mg/L	1	Std		
15	ICB1	1	↓		
16	CCVL1-1.25 mg/L	1	↓		
17	903098-002	1	H_2O		
18	-002MD	1	↓		
19	-002MS	1	↓		
20	-003	1	↓		
21	-004	1	↓		
22	-009	1	↓		
23	-010	1	↓		
24	-011	1	↓		
25	-012	1	↓		
26	-012MD	1	↓	↓	
090317-027.ckd	CCVL2-1.25 mg/L	1	Std	3/17/09	

Remarks

★ #45307 T.V. 25 (mg/L)
Cl = 157.8
NO_3 = 187.2
SO_4 = 168.6

Std / Eluent	Lot#	Conc.	Prep. date
Carbonate Eluent	45373	9 mM	3/12/09
Mixed Anions Stock Std	45323	100 mg/L	3/15/09
Mixed Anions QC Std	45307	★	exp's 11/1/11
Nitrite QC Std	44035	732 mg/L	exp's 8/1/11

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date: _____

Analytes(s):	Cl, NO_2-N NO_3-N, SO_4
Analysis Method:	E300
Backpressure:	2174 psi Conductivity: 23.712 µS
Injection Volume:	200 µL
Gas pressure check:	—
Sparge the eluents:	—
Eluent level check:	—

Guard Column ID:	
Analysis Column ID:	Sep 53
ATC ID:	

ICAL Method File: 090917L-300-0.met / 090917H-300-0.met ICAL Date: 9/17/08 Analyst: K.M

Seq. ID. 090317-300.SCH

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090317-026.dxd	CCVH2-20.0 mg/L	1	Std	3/17/09	
29	CCB2	1	↓	↓	
30	903098-012.MS	1	H_2O		
31	CCVL3-1.25 mg/L	1	Std	↓	
32	CCVH3-20.0 mg/L	1	↓	3/17/09	
090317-033.dxd	CCB3	1	↓	3/18/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
	Sep 53	

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N
Analysis Method:	E300
Backpressure:	2187 psi Conductivity: 23.814 µS
Injection Volume:	200µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC #013201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.met/090318H-300-0.met ICAL Date: 3/18/09 Analyst: JCSA
Seq. ID. 090328-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090328-001.dcd	Rinse	—	—	—	
2	ICVL-1.25mg/L	1	Std	3/28/09	
3	ICVH-20.0mg/L	1	↓	↓	
4	ICB	1	↓		
5	903218001	1	H_2O		
6	-001MD	1	↓		
7	-001MS	1			
8	-002	1			
9	-002MD	1			
10	-002MS	1			
11	-003	1			
12	-007	1			
13	-008	1			
14	↓ -013	1	↓		
15	CCVL1-1.25mg/L	1	Std		
16	CCVH1-20.0mg/L	1	↓		
17	CCB1	1	H_2O		
18	903218-004	1	↓		
19	-011	1			
20	-012	1			
21	-014	1			
22	-006	1			
23	-005	1			
24	-015	1			
25	-009	1			
26	↓ -010	1	↓	↓	
090328-027.dcd	LCSWL1 #45307x200/#44635x500	200/500	Std	3/28/09	

Remarks

★ #45307 1.L's (mg/L)
Cl = 157.8
NO_3 = 187.2
S

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45487 9 L's 3/26/09
Mixed Anion Stock Std	45325 100 mg/L 3/5/09
Mixed Anion QC Std	#45307 ★ exp's 11/1/11
Nitrite QC Std	~~#44635~~ #44635 732 mg/L exp's 8/1/10
Cl Stock Std	43087 1000 mg/L exp's 2/1/09

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_3-N, NO_2-N
Analysis Method:	E300
Backpressure:	2187 psi Conductivity: 23-84 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	—
Eluent level check:	—

Guard Column ID:	
Analysis Column ID:	AG18, AS18
ATC ID:	

ICAL Method File: 090318-L-300-0.met / 090318H-300-0.met ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090328-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090328-055.dxd	CCV 1.5 mg/L 20.0 mg/L	1	Std	3/29/09	
56	CCB4	1	↓		
57	903069-002 MS 10 ppm (Cl)	1	H_2O		
58	903069-007	1			
59	-007MD	1			
60	-007MS	1			
61	-007MS 10 ppm (Cl)	1			
62	903098-012	1			
63	-012 MD	1			
64	-012MS 10 ppm (Cl)	1	↓		
65	CCV LS - 1.25 mg/L	1	Std		
66	CCV HS - 20.0 mg/L	1		↓	
090328-067.dxd	CCB5	1	↓	3/29/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
	AG18, AS18	

SAMPLE DATA PACKAGE

RSK 175

GPL Laboratories, LLLP

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-108-1/2
Sample Volume :	10	Lab File ID :	G262656.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	28	
74-82-8	Methane	110	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262656.D
Acq On : 25 Mar 2009 8:16
Sample : 903098-001
Misc : OU1-52GW46-0309,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 25 8:26 2009 Quant Results File: RSK0320.RES

Vial: 39
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.65	16884	107.998	ppb	
2)	T	Ethane	0.00	0	N.D.	ppb	
3)	T	Ethylene	6.32	834	28.052	ppb	m

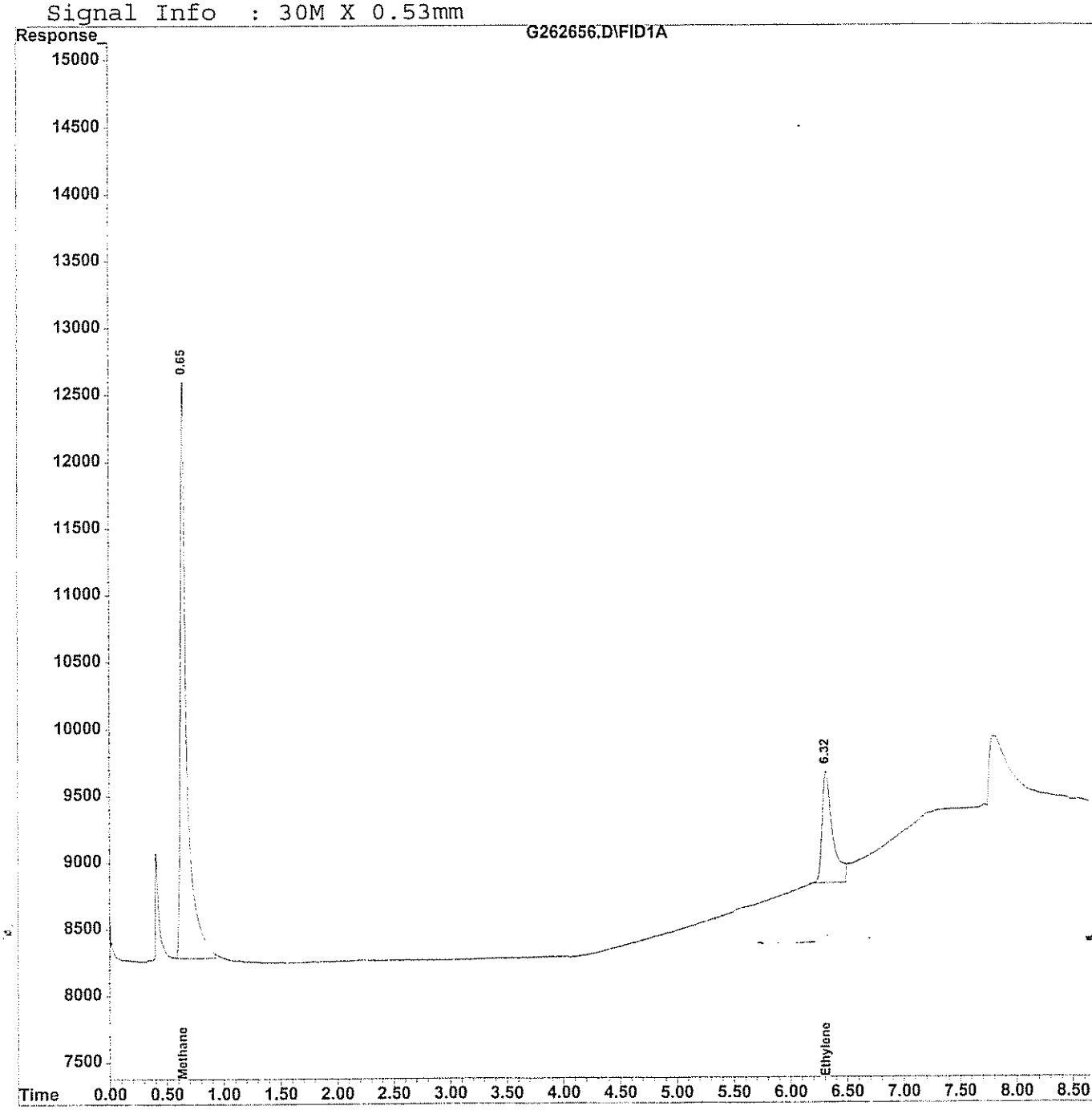
(f)=RT Delta > 1/2 Window (m)=manual int

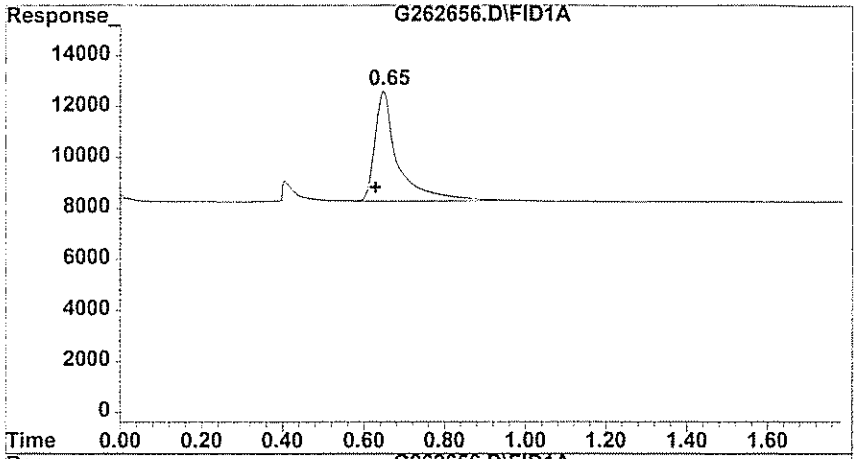
Quantitation Report

Data File : H:\GCDATA\G\032509\G262656.D Vial: 39
Acq On : 25 Mar 2009 8:16 Operator: TG
Sample : 903098-001 Inst : GC-G
Misc : OU1-52GW46-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 8:26 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

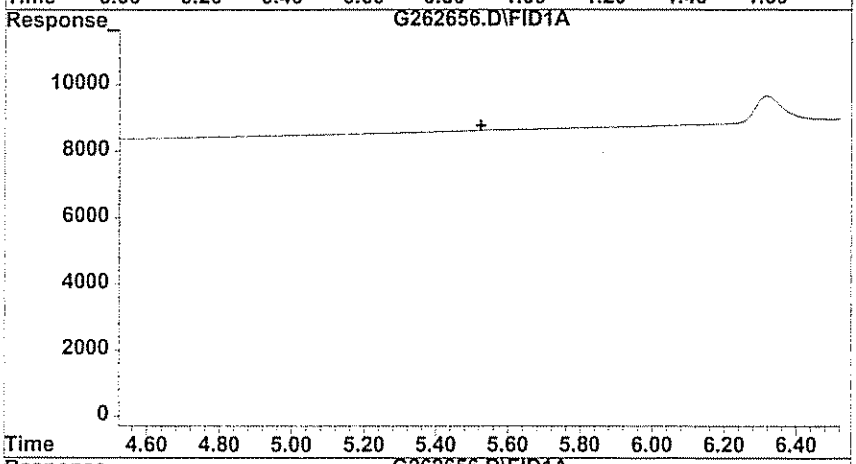
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





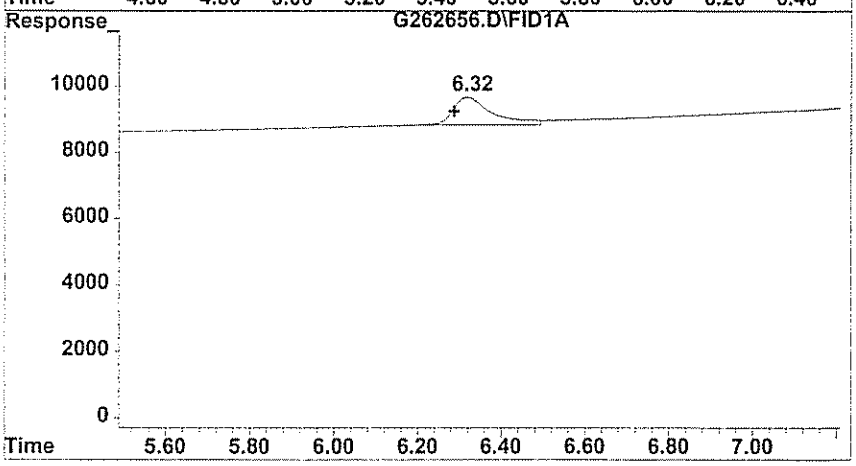
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 16884
Conc: 108.00 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.030 min
Response: 834
Conc: 28.05 ppb m

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-001-109-2/2
Sample Volume :	1	Lab File ID :	G262659.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	120	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262659.D Vial: 1
Acq On : 25 Mar 2009 12:06 Operator: TG
Sample : 903098-001DL Inst : GC-G
Misc : OU1-52GW46-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 12:26 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.65	1925	12.313	ppb	m
2)	T	Ethane	0.00	0	N.D.	ppb	d
3)	T	Ethylene	0.00	0	N.D.	ppb	

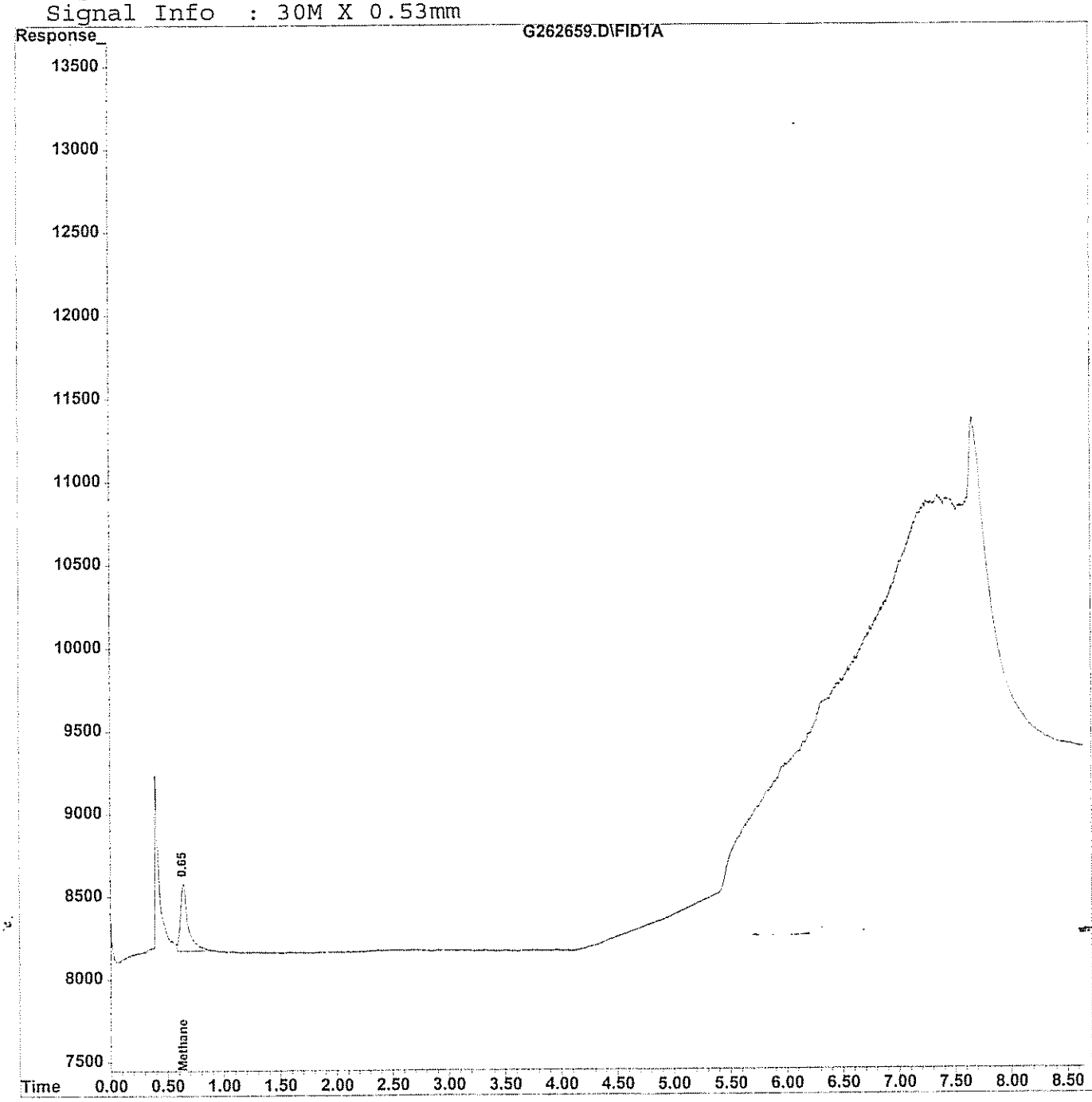
(f)=RT Delta > 1/2 Window (m)=manual int

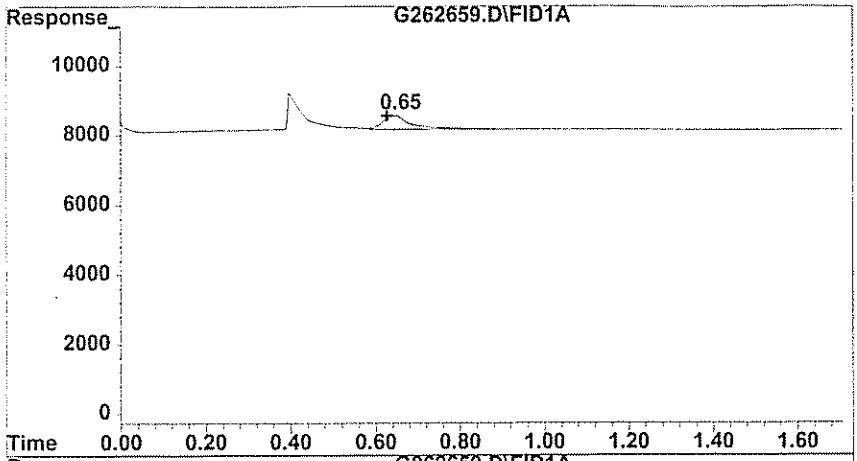
Quantitation Report

Data File : H:\GCDATA\G\032509\G262659.D Vial: 1
Acq On : 25 Mar 2009 12:06 Operator: TG
Sample : 903098-001DL Inst : GC-G
Misc : OU1-52GW46-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 12:26 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

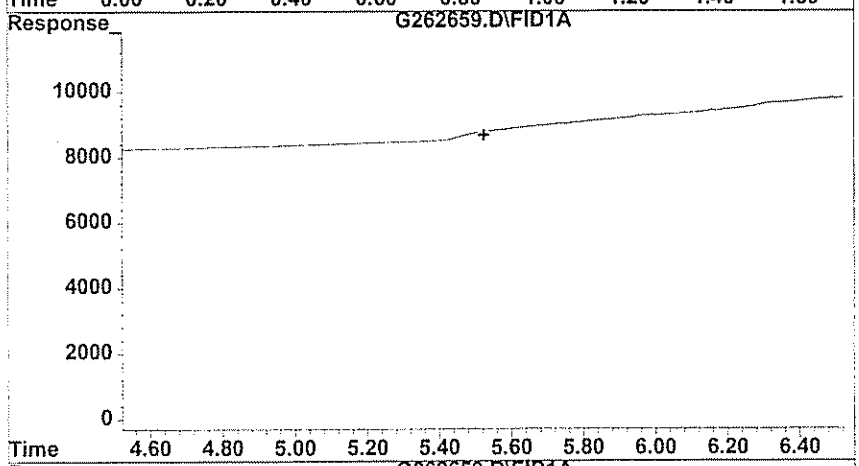
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





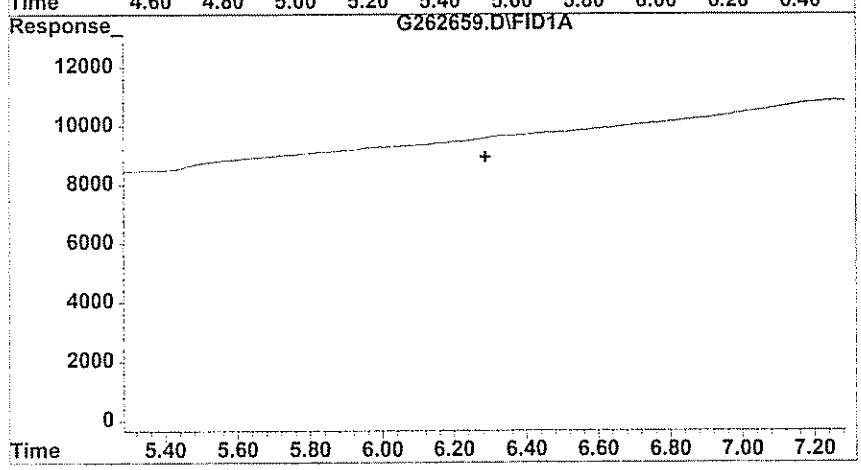
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 1925
Conc: 12.31 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-116-1/6
Sample Volume :	10	Lab File ID :	G262657.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262657.D Vial: 40
Acq On : 25 Mar 2009 8:42 Operator: TG
Sample : 903098-002 Inst : GC-G
Misc : OU1-16GW11-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 8:52 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.00	0	N.D.	ppb	d
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

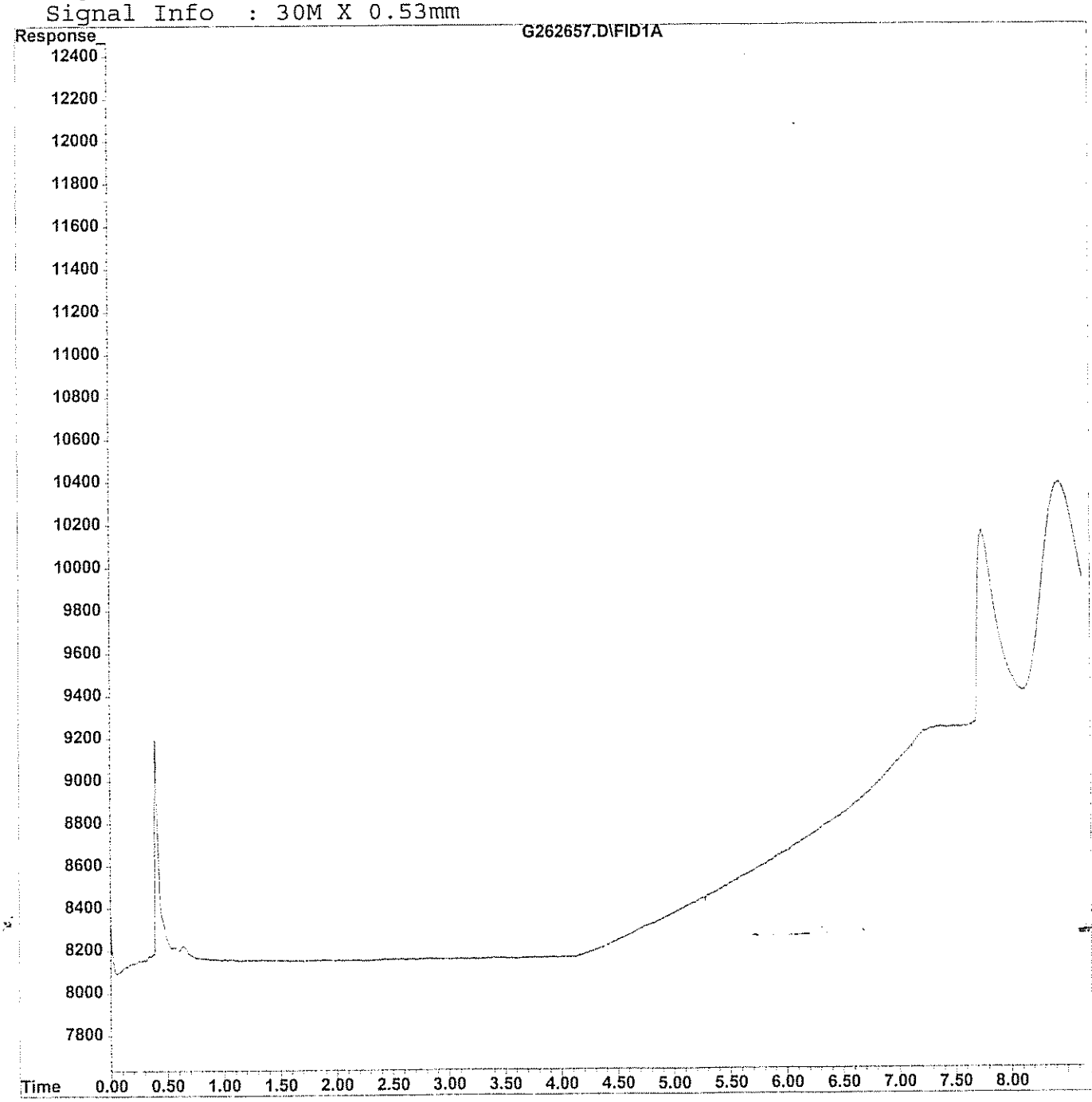
(f)=RT Delta > 1/2 Window (m)=manual int

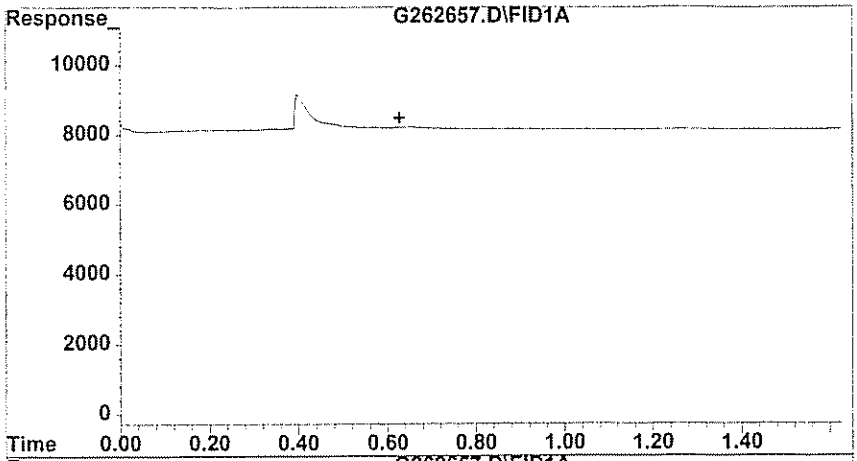
Quantitation Report

Data File : H:\GCDATA\G\032509\G262657.D Vial: 40
Acq On : 25 Mar 2009 8:42 Operator: TG
Sample : 903098-002 Inst : GC-G
Misc : OU1-16GW11-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 8:52 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

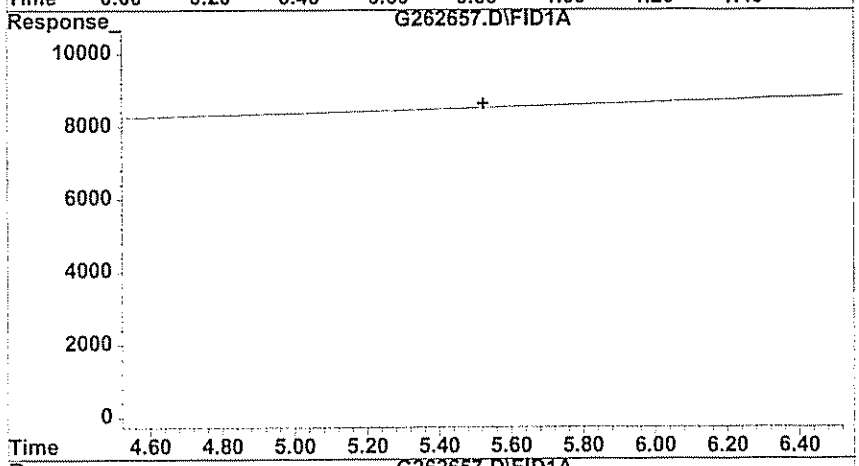
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





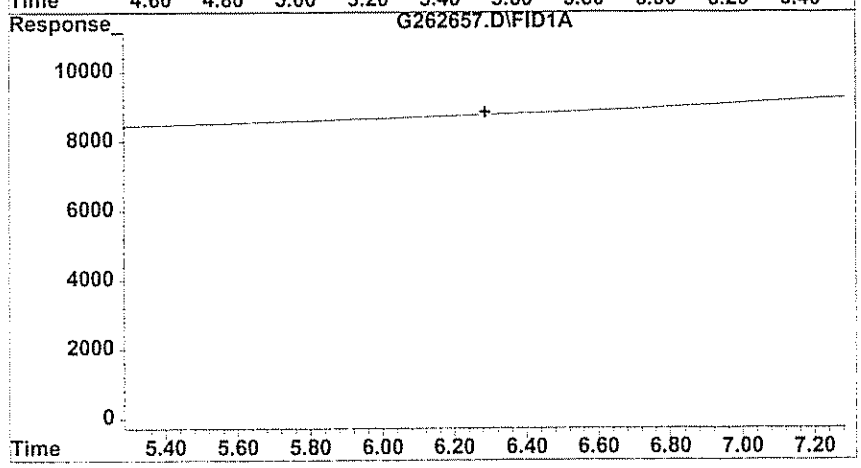
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-090-1/2
Sample Volume :	10	Lab File ID :	G262658.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	12	
74-85-1	Ethene	5.8	U
74-82-8	Methane	5100	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262658.D Vial: 41
Acq On : 25 Mar 2009 8:58 Operator: TG
Sample : 903098-003 Inst : GC-G
Misc : OU1-MW59-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 9:08 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.64	792234	5067.500	ppb	
2)	T	Ethane	5.55	279	11.766	ppb	m
3)	T	Ethylene	6.44	73	2.455	ppb	m

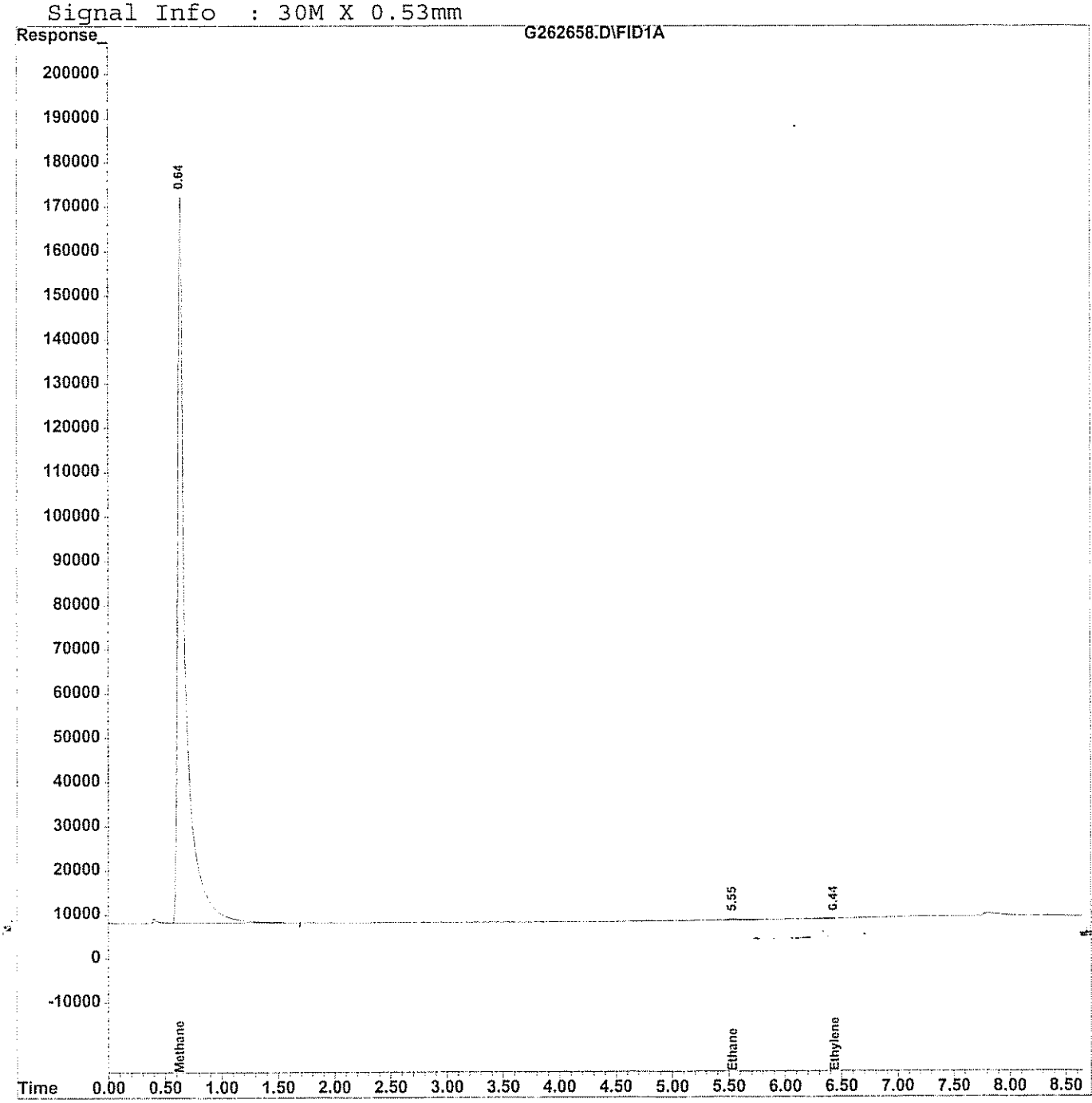
(f)=RT Delta > 1/2 Window (m)=manually int

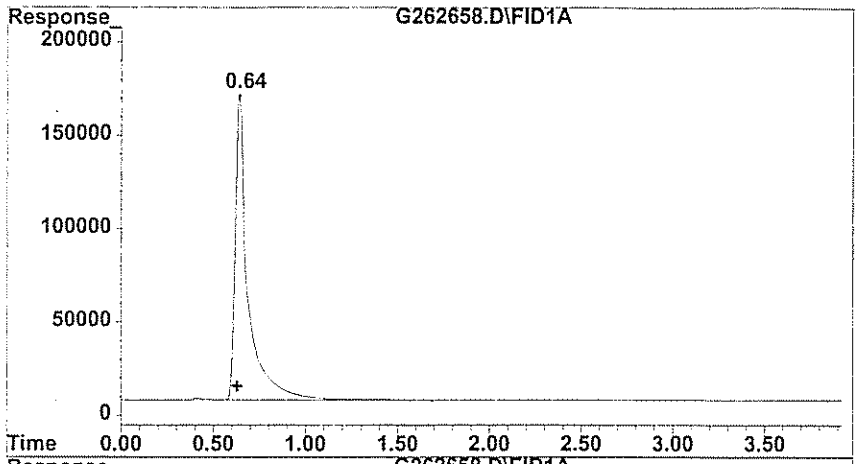
Quantitation Report

Data File : H:\GCDATA\G\032509\G262658.D Vial: 41
Acq On : 25 Mar 2009 8:58 Operator: TG
Sample : 903098-003 Inst : GC-G
Misc : OU1-MW59-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 9:08 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

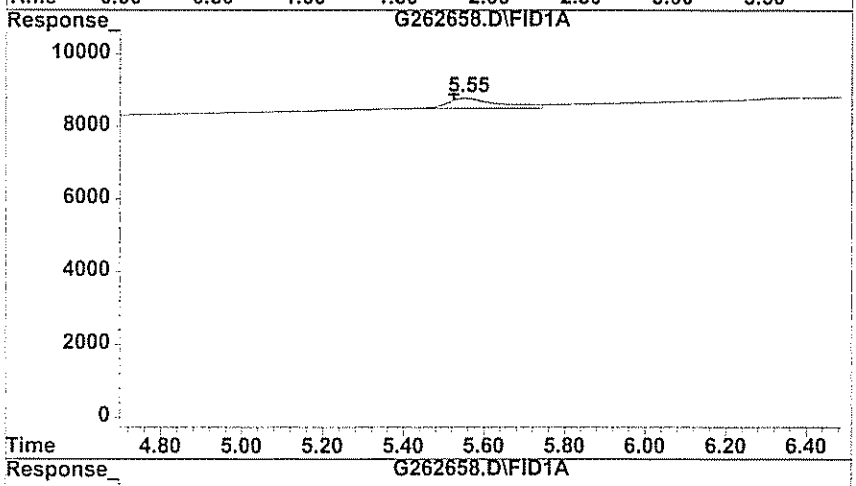
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





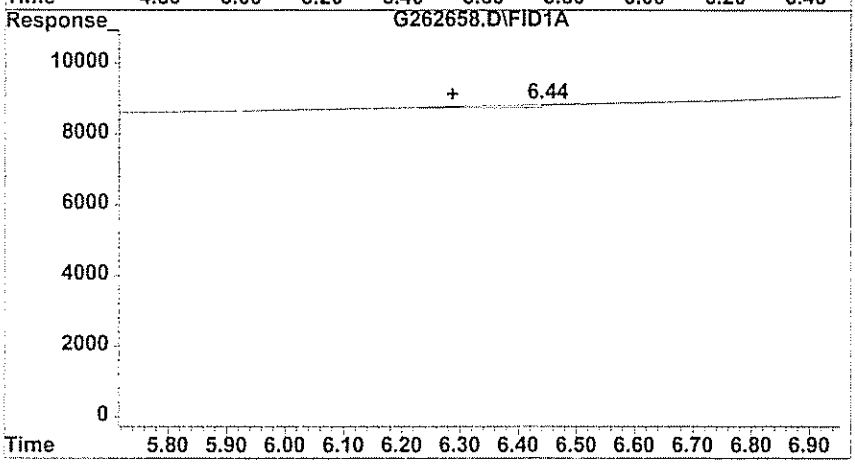
#1 Methane

R.T.: 0.640 min
Delta R.T.: 0.013 min
Response: 792234
Conc: 5067.50 ppb



#2 Ethane

R.T.: 5.547 min
Delta R.T.: 0.023 min
Response: 279
Conc: 11.77 ppb m



#3 Ethylene

R.T.: 6.440 min
Delta R.T.: 0.153 min
Response: 73
Conc: 2.46 ppb m

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW59-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-003-091-2/2
Sample Volume :	.01	Lab File ID :	G262662.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1000
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6200	U
74-85-1	Ethene	5800	U
74-82-8	Methane	5300	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262662.D Vial: 4
Acq On : 25 Mar 2009 12:58 Operator: TG
Sample : 903098-003DL2 Inst : GC-G
Misc : OU1-MW59-0309,CH2M,WATER,10ML,1000X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 13:10 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	831	5.315	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

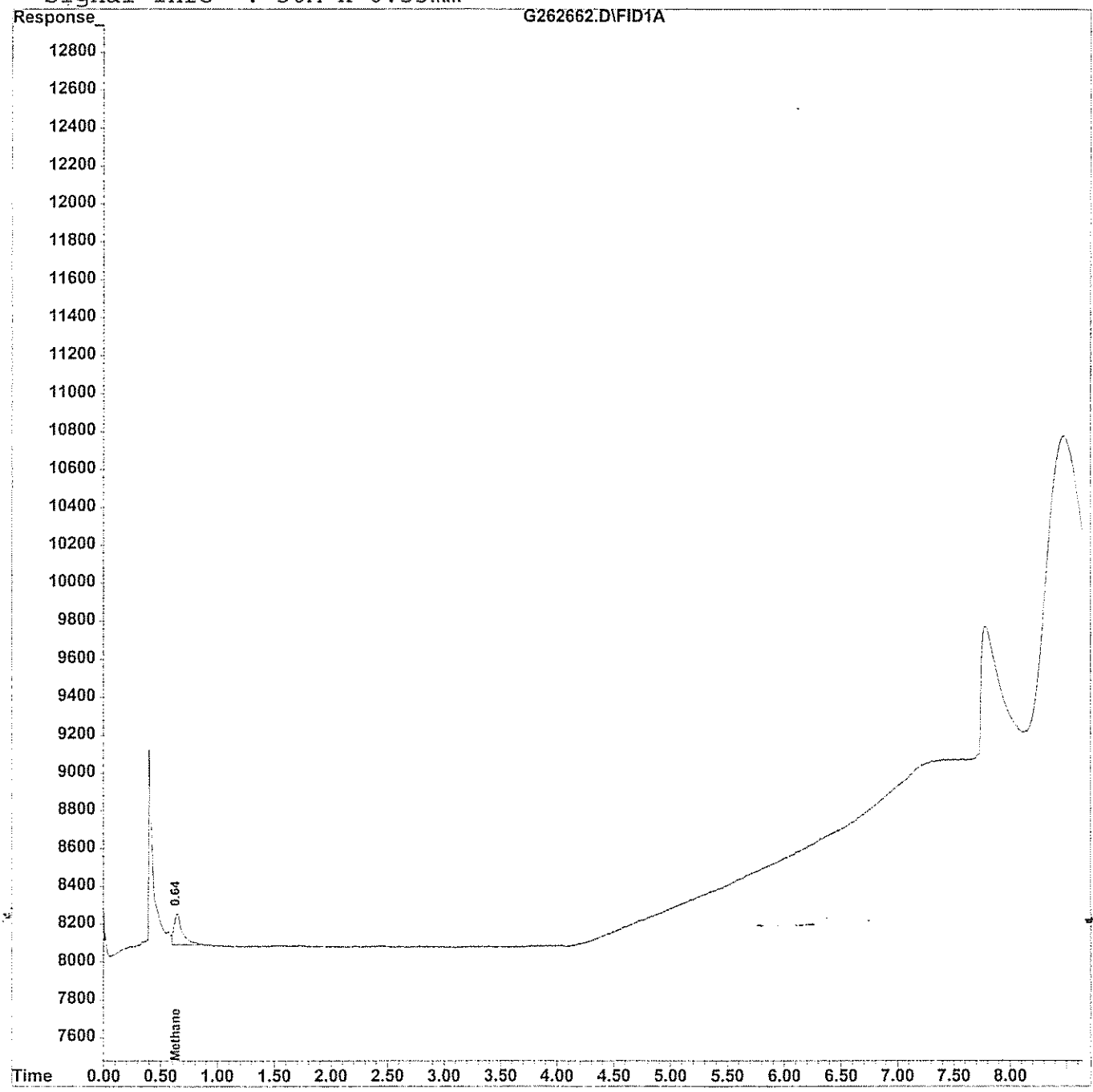
(f)=RT Delta > 1/2 Window (m)=manually integ

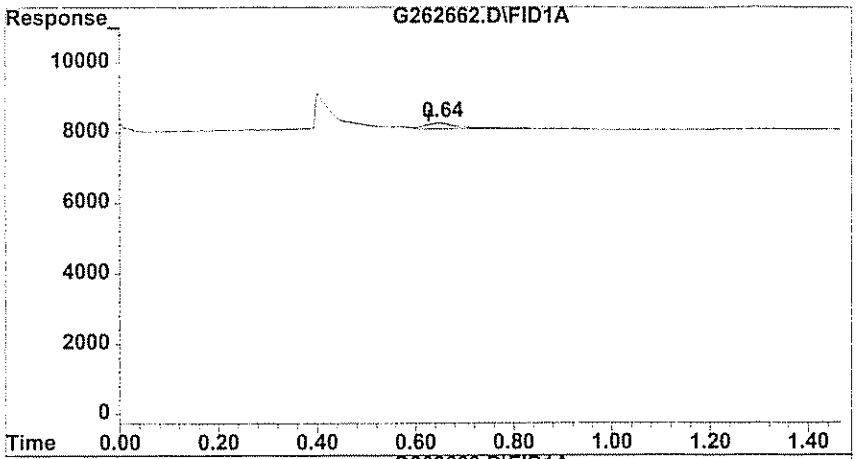
Quantitation Report

Data File : H:\GCDATA\G\032509\G262662.D Vial: 4
Acq On : 25 Mar 2009 12:58 Operator: TG
Sample : 903098-003DL2 Inst : GC-G
Misc : OU1-MW59-0309,CH2M,WATER,10ML,1000X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 13:10 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

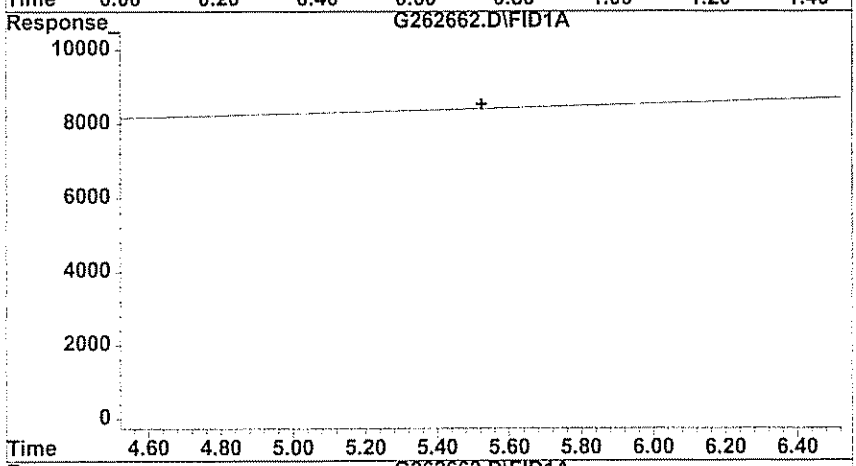
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





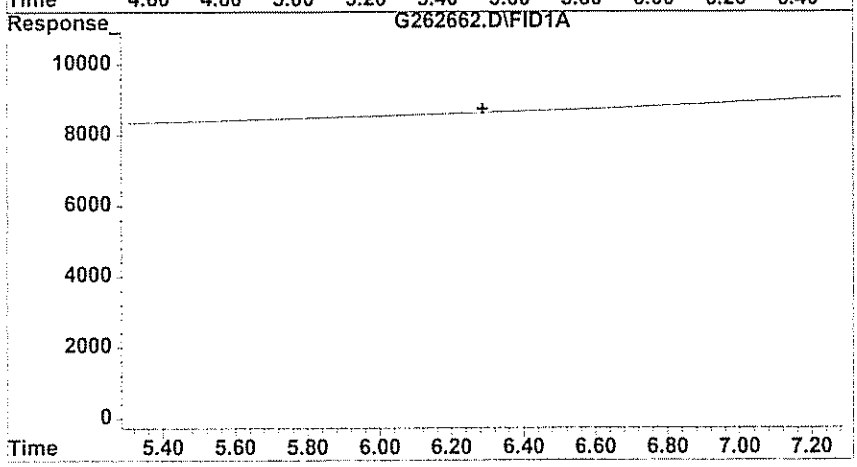
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 831
Conc: 5.32 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-092-1/2
Sample Volume :	10	Lab File ID :	G262661.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	40	
74-82-8	Methane	160	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262661.D Vial: 3
Acq On : 25 Mar 2009 12:38 Operator: TG
Sample : 903098-004 Inst : GC-G
Misc : OU1-52GW46P-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 12:52 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.64	24685	157.897	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	6.31	1183	39.791	ppb

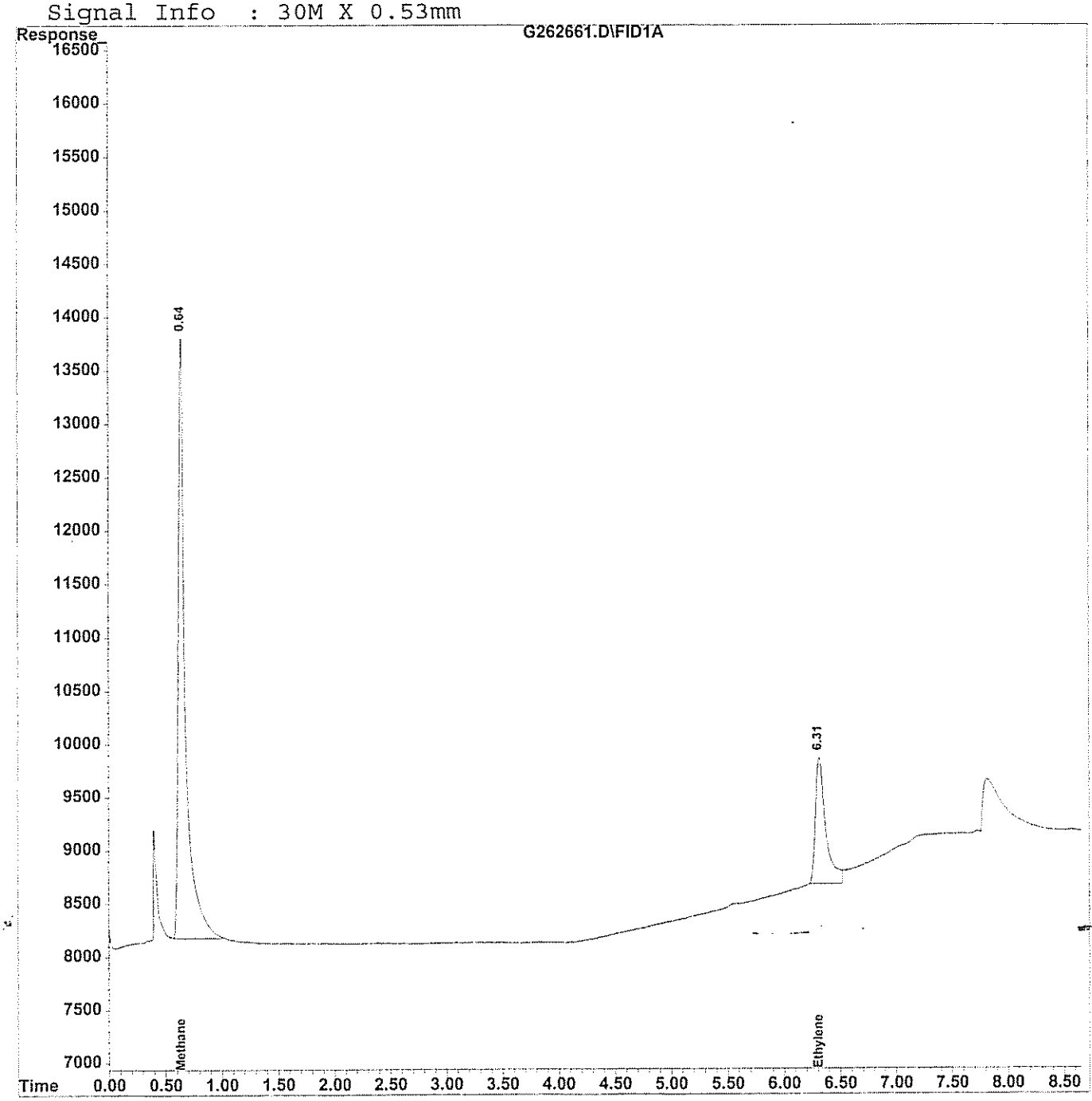
(f)=RT Delta > 1/2 Window (m)=manual int

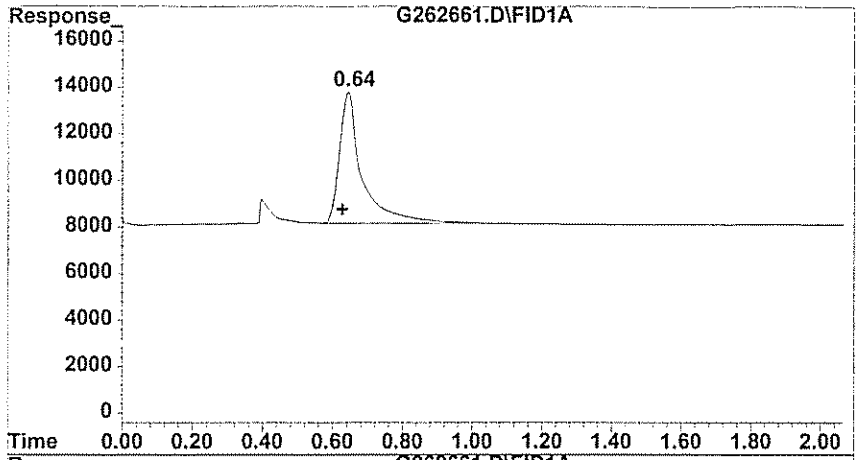
Quantitation Report

Data File : H:\GCDATA\G\032509\G262661.D Vial: 3
Acq On : 25 Mar 2009 12:38 Operator: TG
Sample : 903098-004 Inst : GC-G
Misc : OU1-52GW46P-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 12:52 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

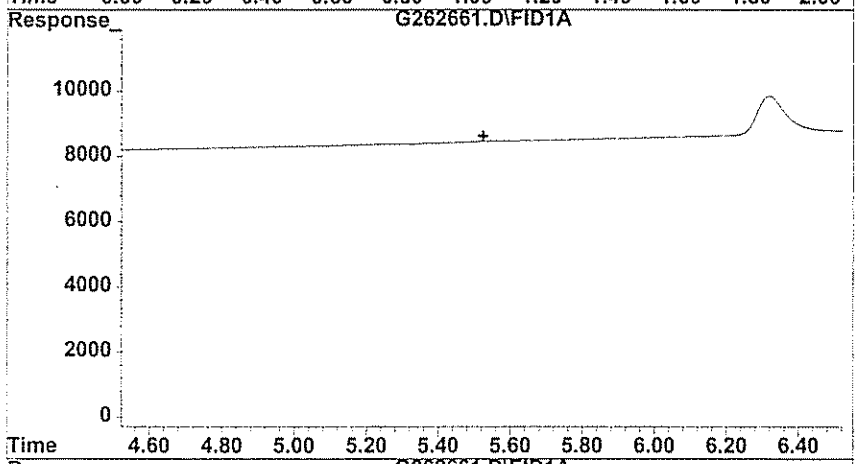
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





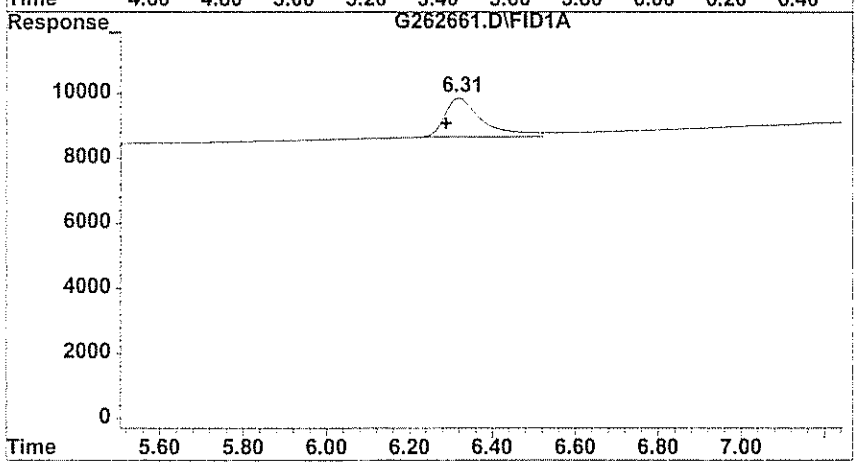
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 24685
Conc: 157.90 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 6.313 min
Delta R.T.: 0.027 min
Response: 1183
Conc: 39.79 ppb

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW46P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-004-093-2/2
Sample Volume :	1	Lab File ID :	G262666.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	45	J
74-82-8	Methane	150	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262666.D Vial: 8
Acq On : 25 Mar 2009 14:44 Operator: TG
Sample : 903098-004DL Inst : GC-G
Misc : OU1-MW59-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 14:54 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	2299	14.705	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	6.32	134	4.507	ppb	m

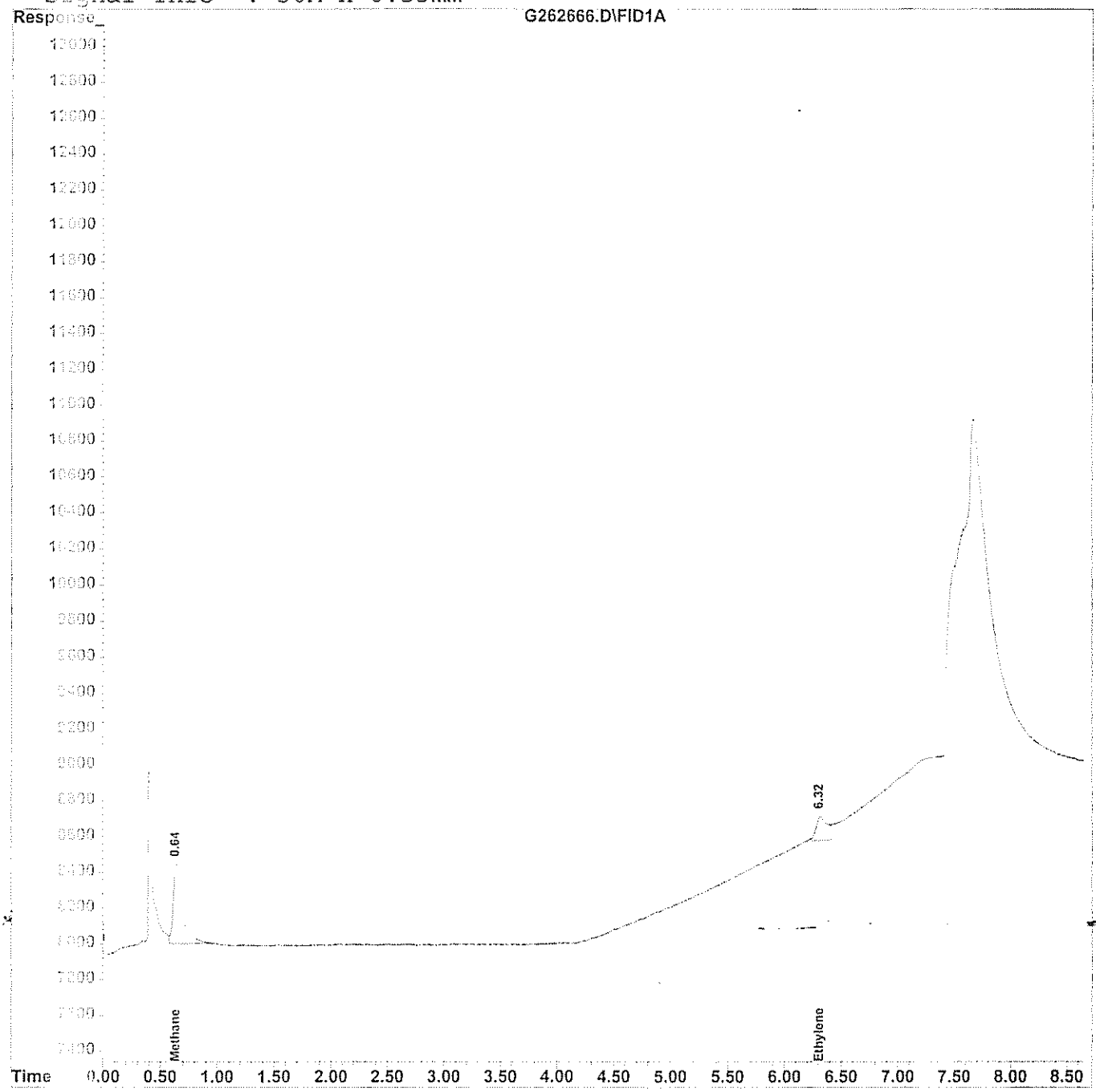
(f)=RT Delta > 1/2 Window (m)=manually integ

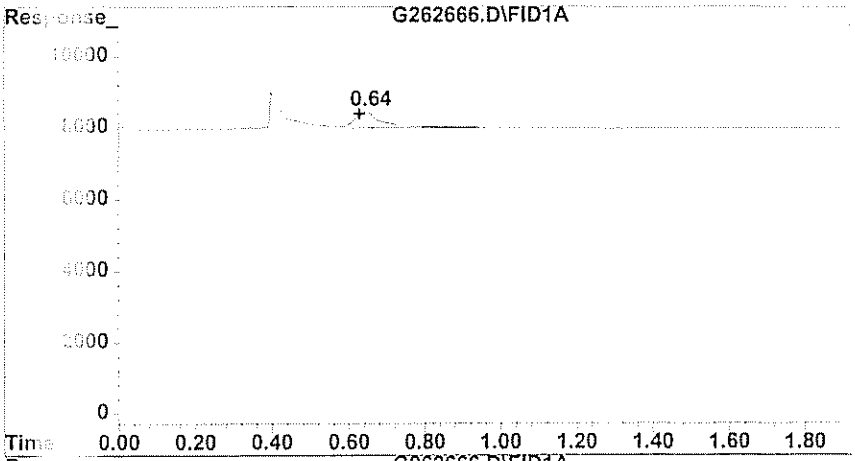
Quantitation Report

Data File : H:\GCDATA\G\032509\G262666.D Vial: 8
Acq On : 25 Mar 2009 14:44 Operator: TG
Sample : 903098-004DL Inst : GC-G
Misc : OU1-MW59-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 14:54 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

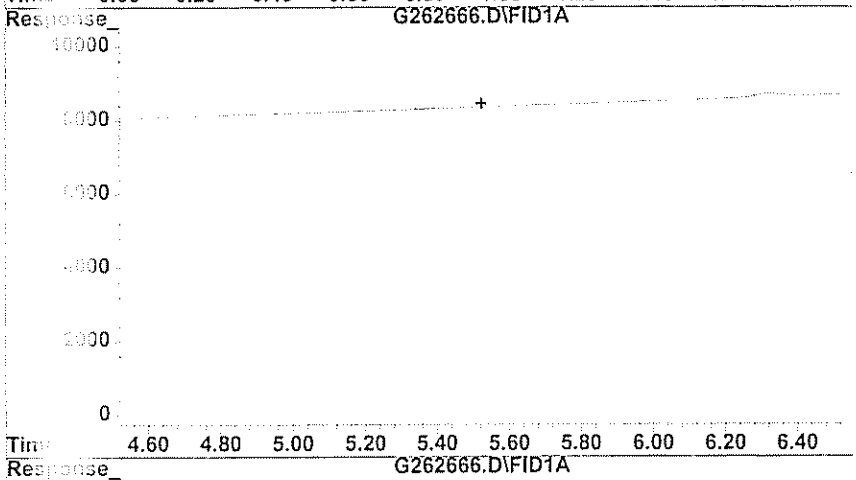
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





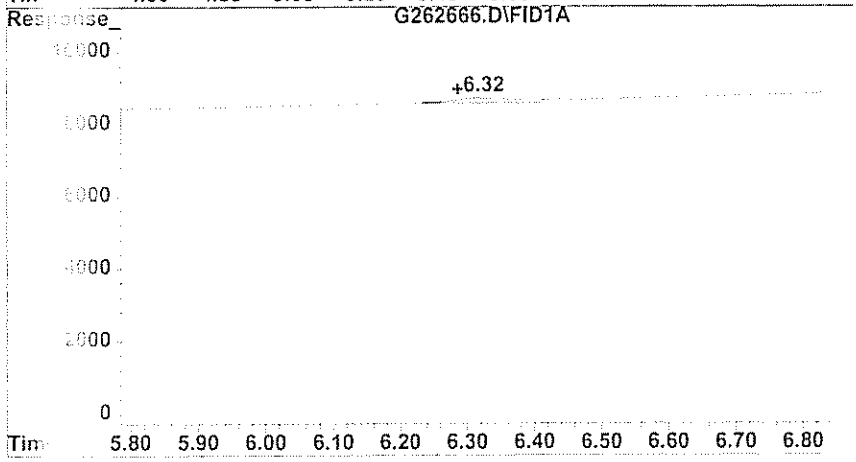
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.017 min
Response: 2299
Conc: 14.71 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.030 min
Response: 134
Conc: 4.51 ppb m

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW10-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-005-094-1/2
Sample Volume :	10	Lab File ID :	G262667.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.9	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262667.D Vial: 9
Acq On : 25 Mar 2009 15:02 Operator: TG
Sample : 903098-005 Inst : GC-G
Misc : OU1-16GW10-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 15:12 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	612	3.915	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

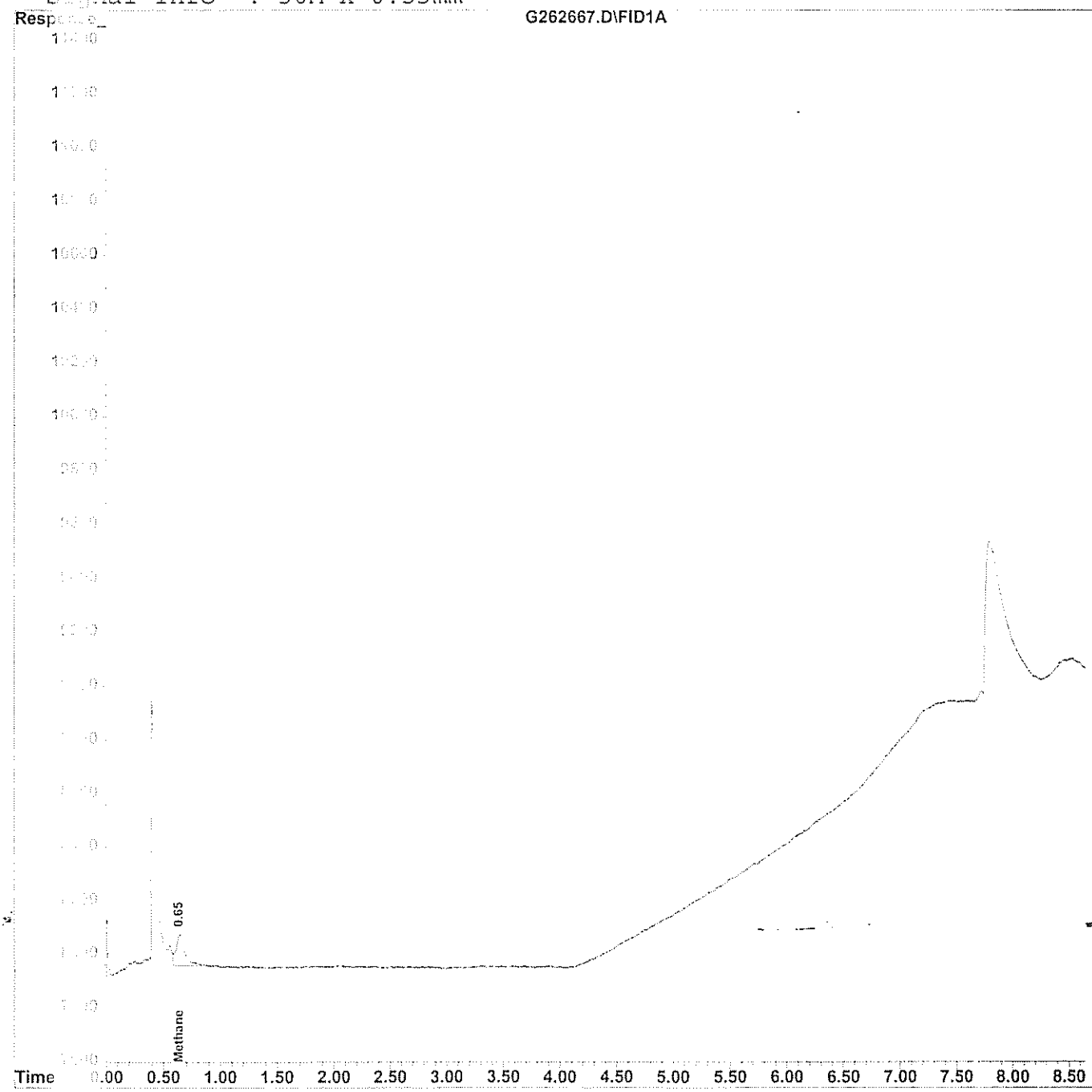
(f)=RT Delta > 1/2 Window (m)=manual int
G262667.D RSK0320.M Wed Mar 25 16:07:51 2009 W28_IOANNIDE Page 1

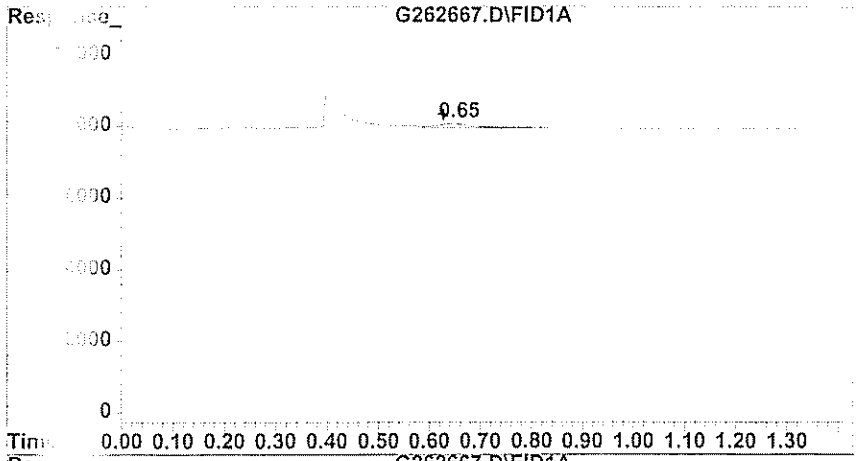
Quantitation Report

Data File : H:\GCDATA\G\032509\G262667.D Vial: 9
Acq On : 25 Mar 2009 15:02 Operator: TG
Sample : 903098-005 Inst : GC-G
Misc : OU1-16GW10-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 15:12 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

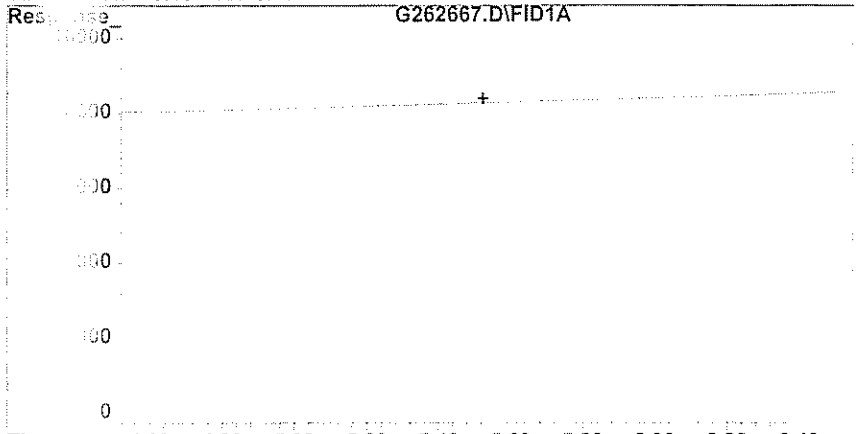
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





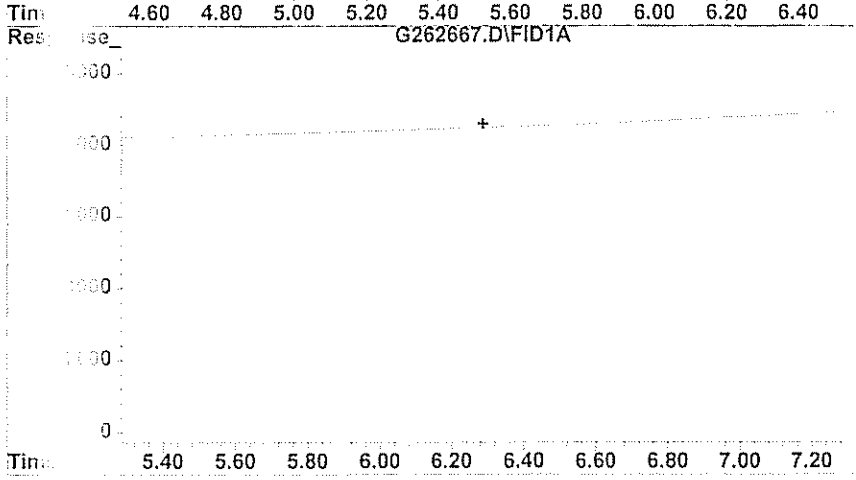
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 612
Conc: 3.91 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-096-1/2
Sample Volume :	10	Lab File ID :	G262668.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	3.9	J
74-82-8	Methane	85	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262668.D Vial: 10
Acq On : 25 Mar 2009 15:17 Operator: TG
Sample : 903098-006 Inst : GC-G
Misc : OU1-MW53-0309,CH2M,WATER,10ML Multiplr: 1.00
InitFile : rteint.p
Quant Time: Mar 25 15:26 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	T Methane	0.64	13314	85.163 ppb
2)	T Ethane	0.00	0	N.D. ppb
3)	T Ethylene	6.33	115	3.868 ppb

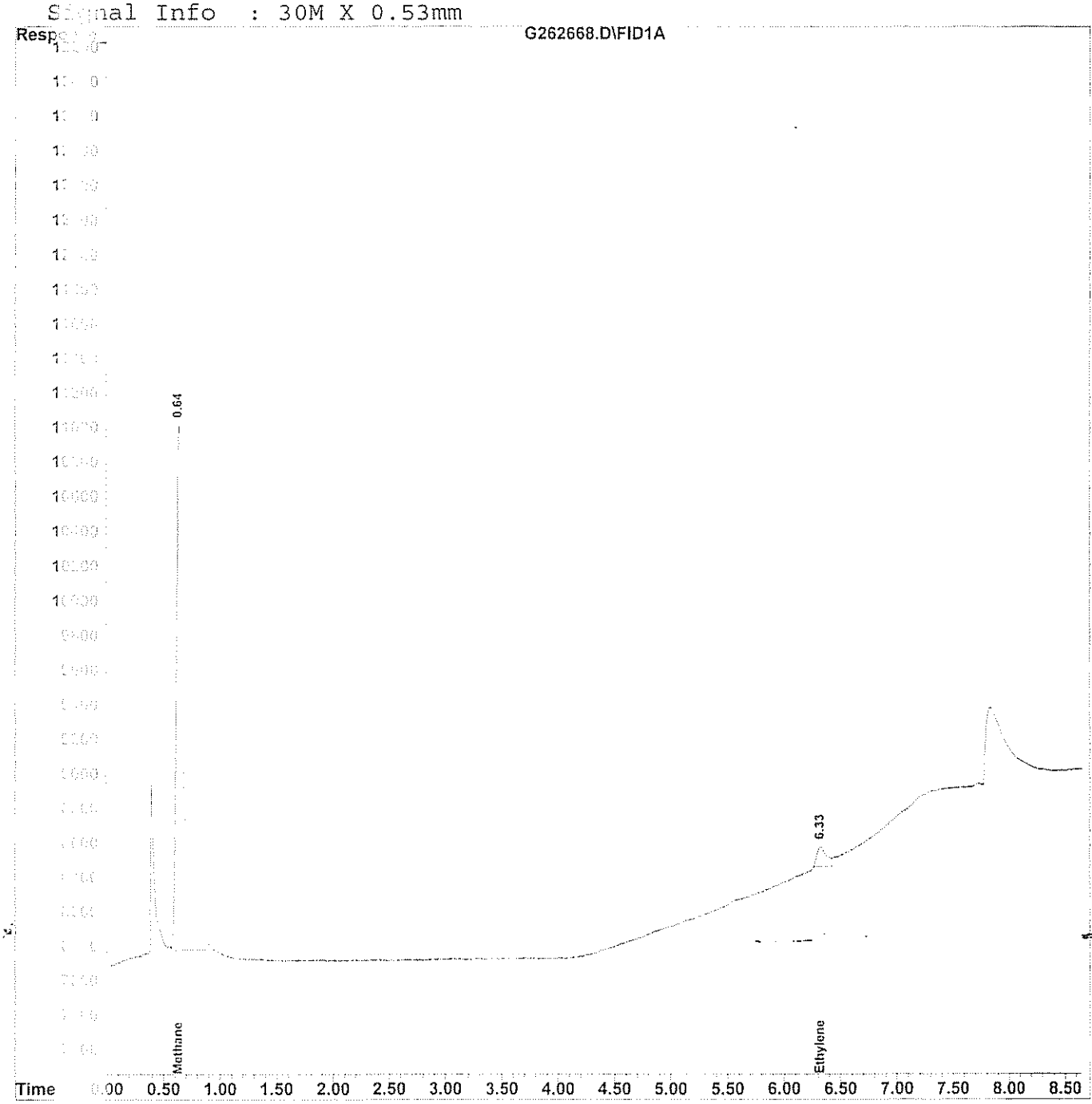
(f)=RT Delta > 1/2 Window (m)=manual int

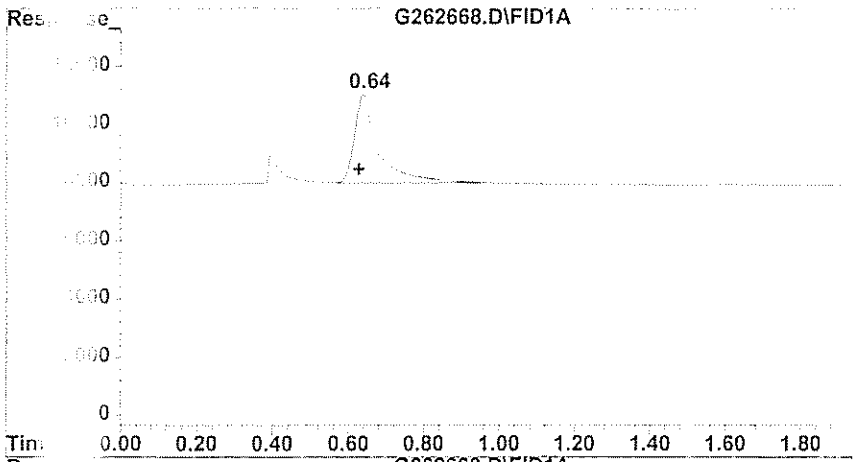
Quantitation Report

Data File : H:\GCDATA\G\032509\G262668.D Vial: 10
Acq On : 25 Mar 2009 15:17 Operator: TG
Sample : 903098-006 Inst : GC-G
Misc : OU1-MW53-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 15:26 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

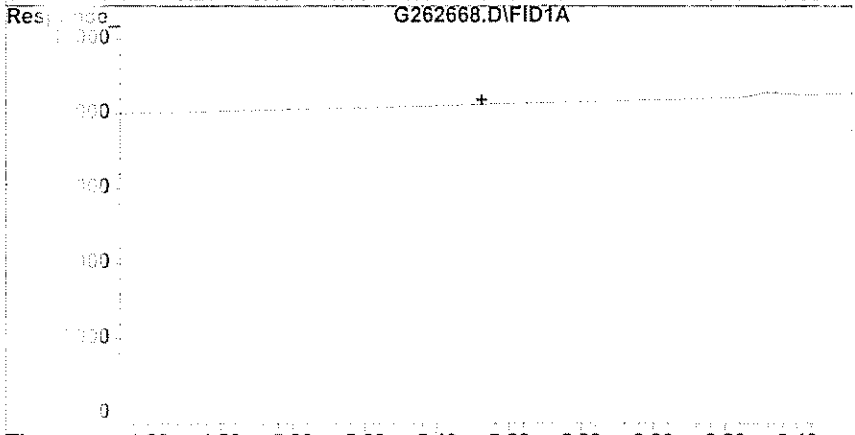
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





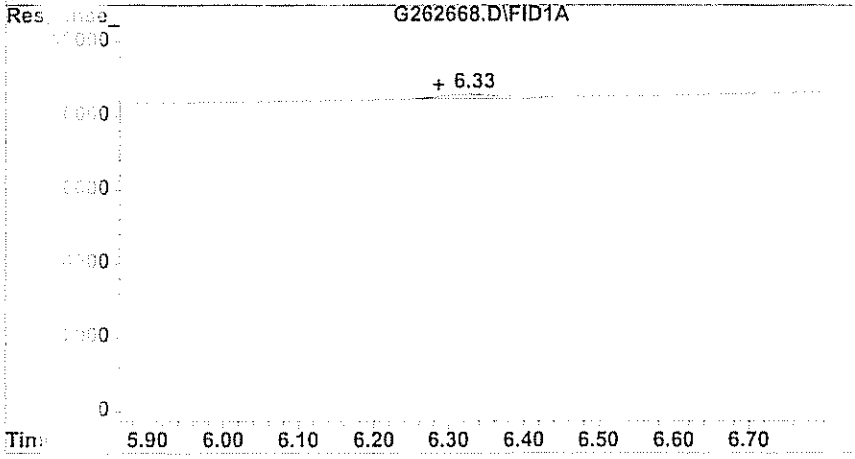
#1 Methane

R.T.: 0.640 min
Delta R.T.: 0.013 min
Response: 13314
Conc: 85.16 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 6.327 min
Delta R.T.: 0.040 min
Response: 115
Conc: 3.87 ppb

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-006-097-2/2
Sample Volume :	1	Lab File ID :	G262670.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	87	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262670.D Vial: 12
Acq On : 25 Mar 2009 15:51 Operator: TG
Sample : 903098-006DL Inst : GC-G
Misc : OU1-MW53-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 16:00 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	1366	8.738	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

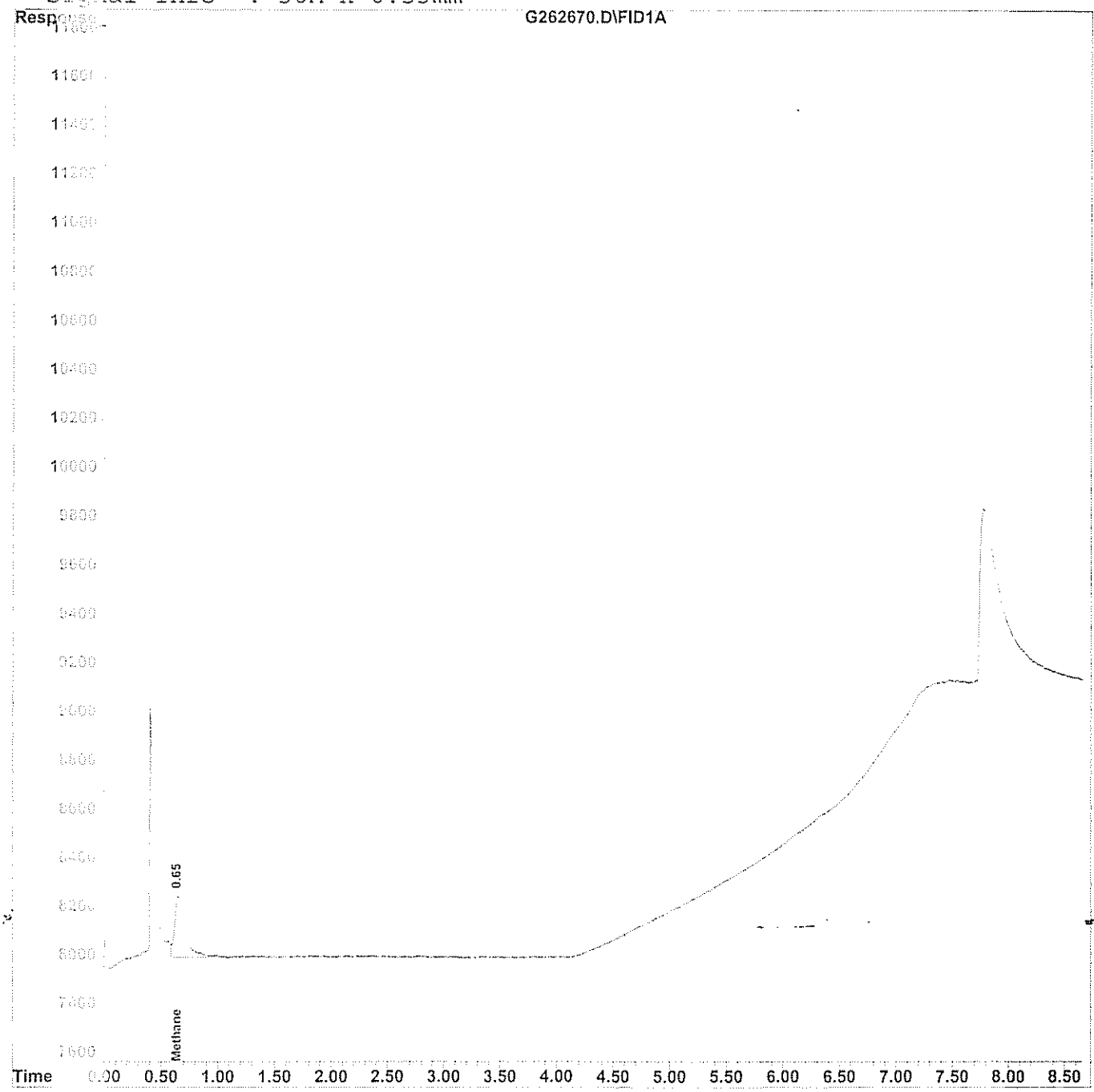
(f)=RT Delta > 1/2 Window (m)=manually int

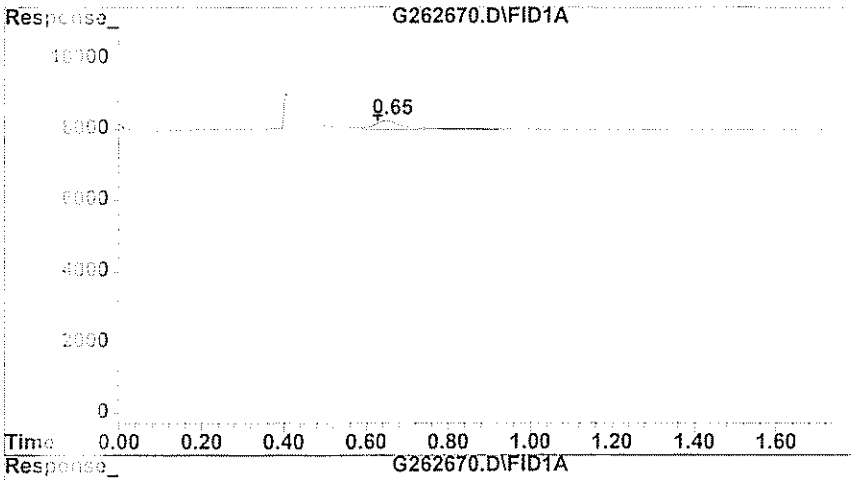
Quantitation Report

Data File : H:\GCDATA\G\032509\G262670.D Vial: 12
Acq On : 25 Mar 2009 15:51 Operator: TG
Sample : 903098-006DL Inst : GC-G
Misc : OU1-MW53-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 16:00 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

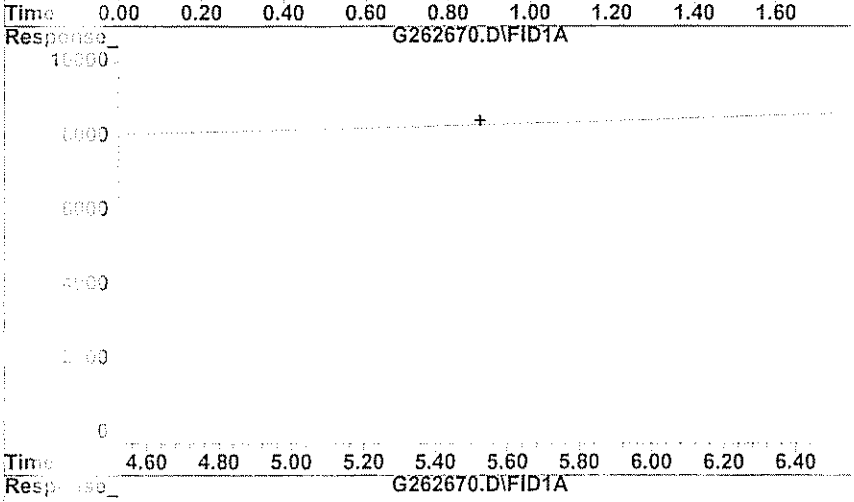
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





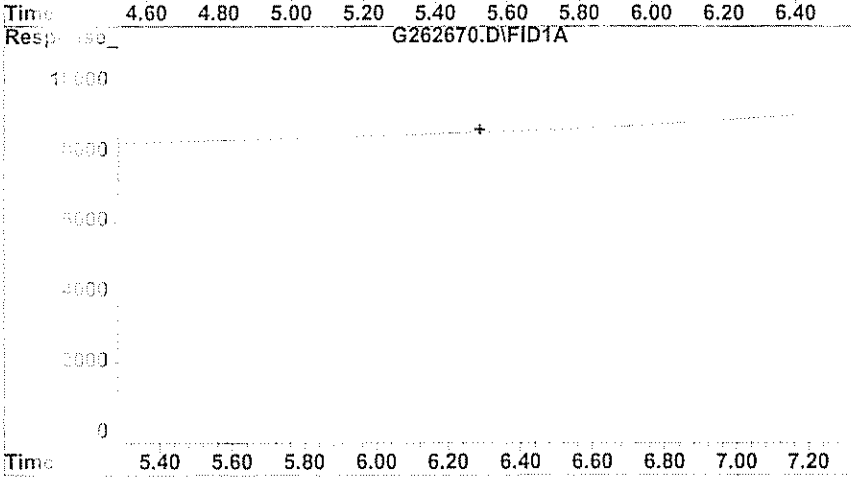
#1 Methane

R.T.:	0.650 min
Delta R.T.:	0.023 min
Response:	1366
Conc:	8.74 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.523 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.287 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-098-1/2
Sample Volume :	10	Lab File ID :	G262672.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	4.2	J
74-82-8	Methane	79	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262672.D Vial: 14
Acq On : 25 Mar 2009 16:20 Operator: TG
Sample : 903098-007 Inst : GC-G
Misc : OU1-MW53P-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 16:30 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.65	12306	78.715	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	6.32	124	4.171	ppb

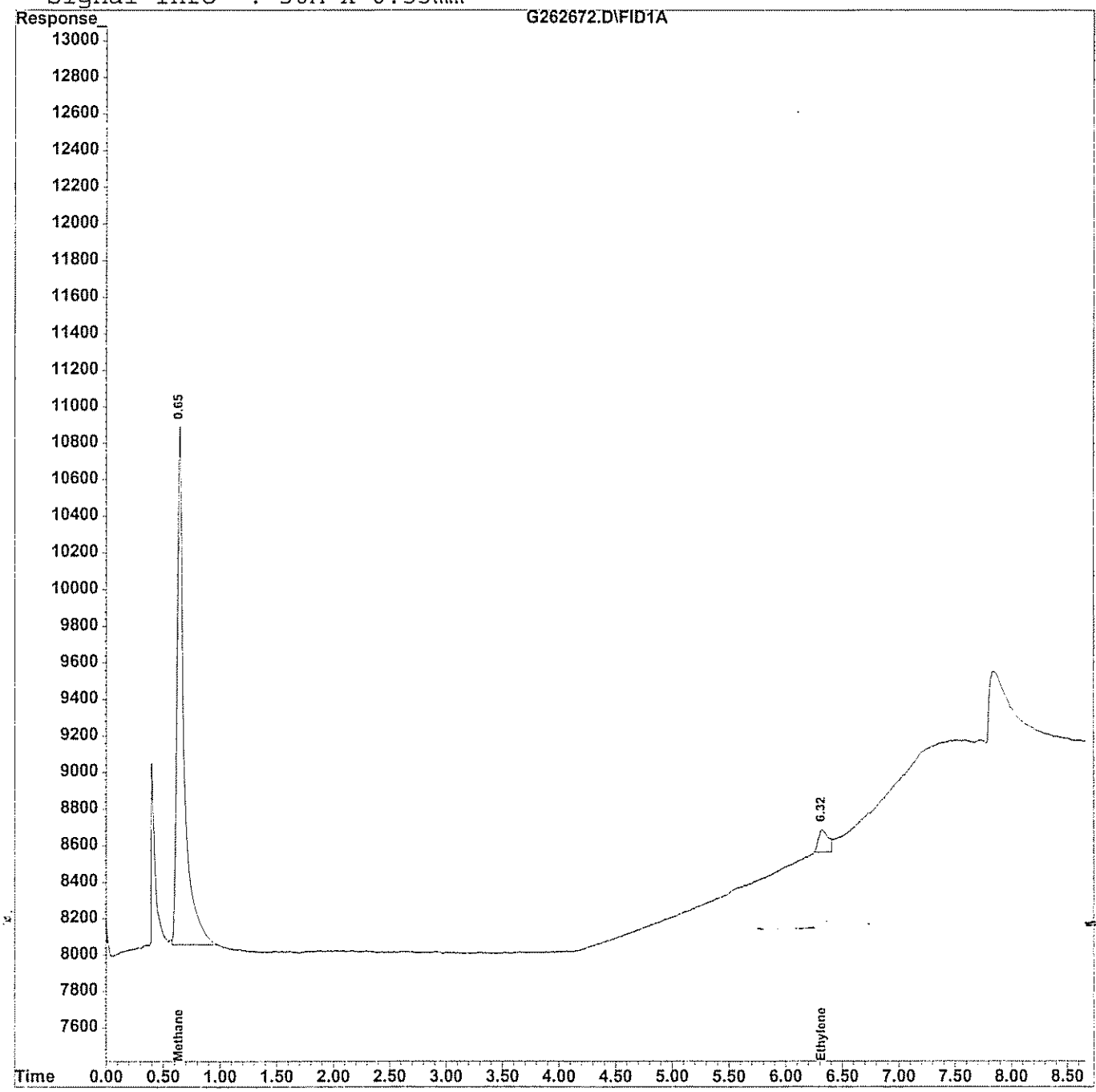
(f)=RT Delta > 1/2 Window (m)=manual int

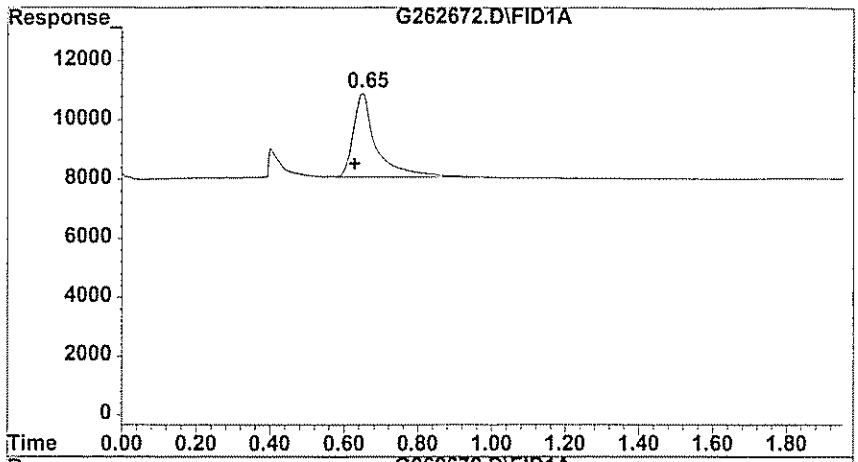
Quantitation Report

Data File : H:\GCDATA\G\032509\G262672.D Vial: 14
Acq On : 25 Mar 2009 16:20 Operator: TG
Sample : 903098-007 Inst : GC-G
Misc : OU1-MW53P-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 16:30 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

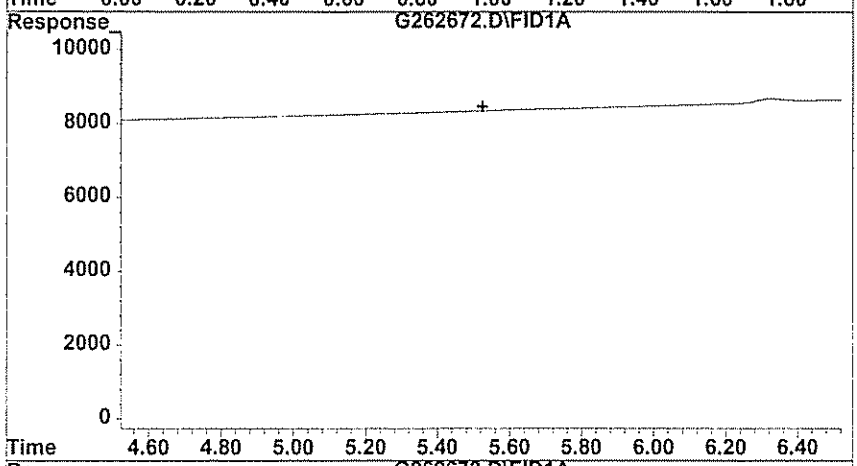
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





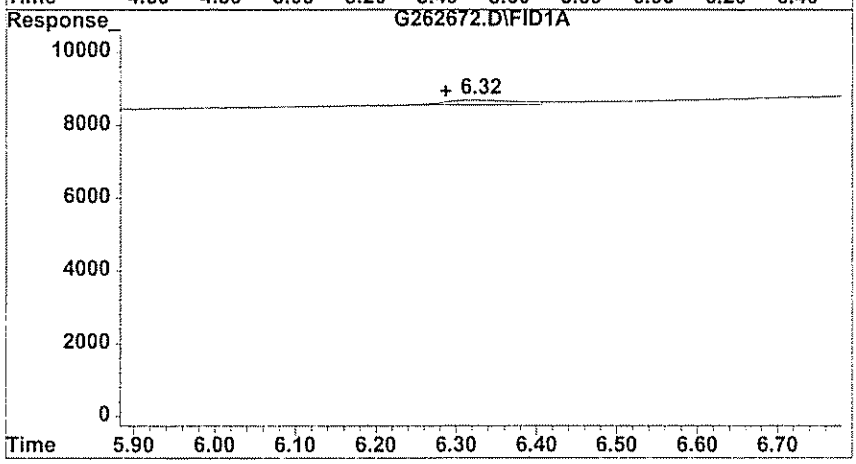
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 12306
Conc: 78.71 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 6.323 min
Delta R.T.: 0.037 min
Response: 124
Conc: 4.17 ppb

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW53P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-007-099-2/2
Sample Volume :	1	Lab File ID :	G262673.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	92	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262673.D Vial: 15
Acq On : 25 Mar 2009 16:49 Operator: TG
Sample : 903098-007DL Inst : GC-G
Misc : OU1-MW53P-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 16:59 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	1435	9.179	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

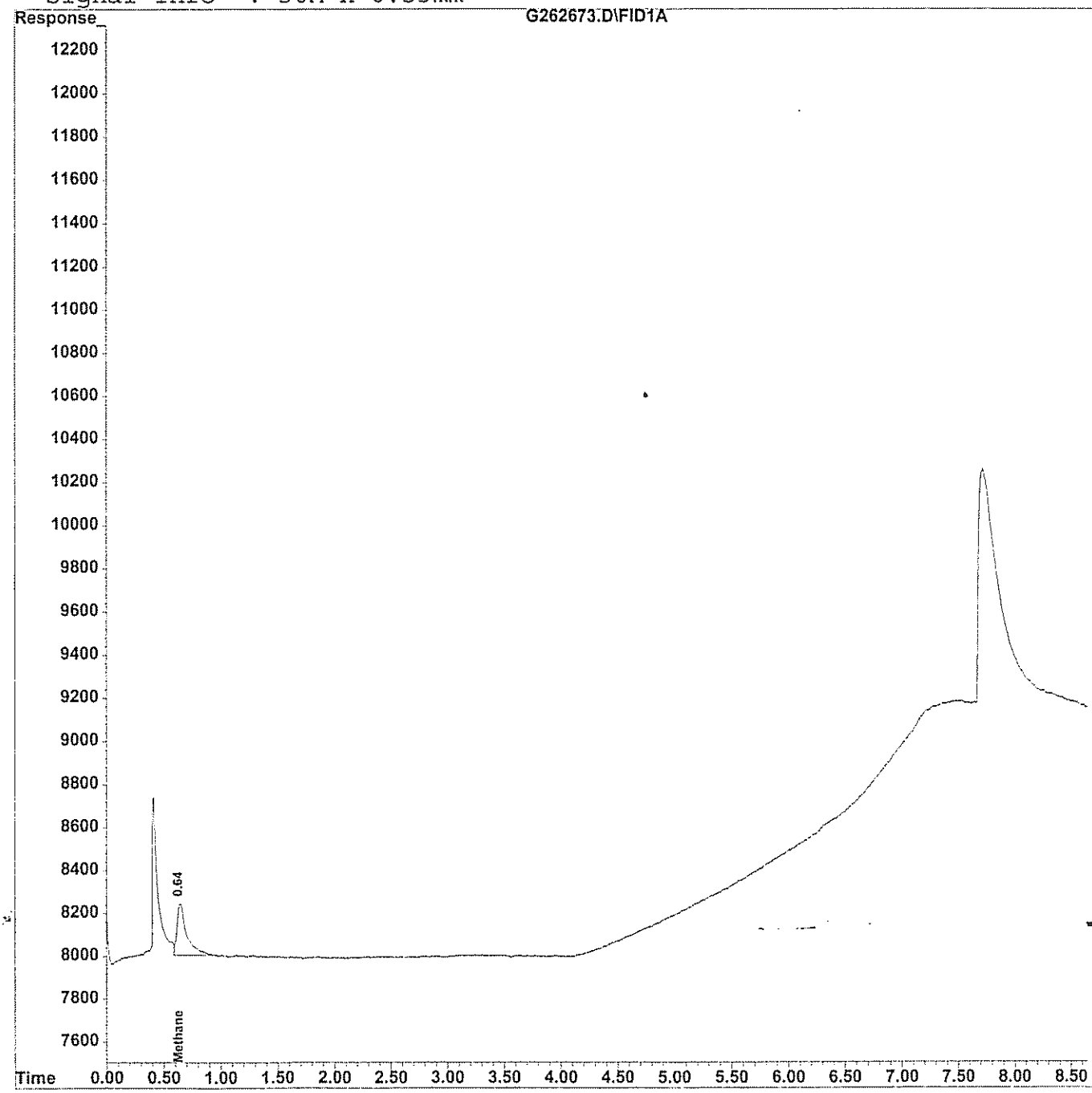
(f)=RT Delta > 1/2 Window (m)=manual int

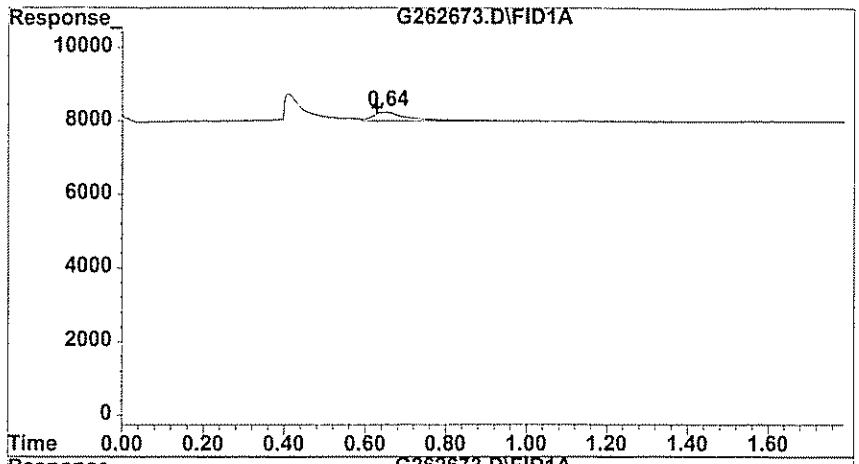
Quantitation Report

Data File : H:\GCDATA\G\032509\G262673.D Vial: 15
Acq On : 25 Mar 2009 16:49 Operator: TG
Sample : 903098-007DL Inst : GC-G
Misc : OU1-MW53P-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 16:59 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

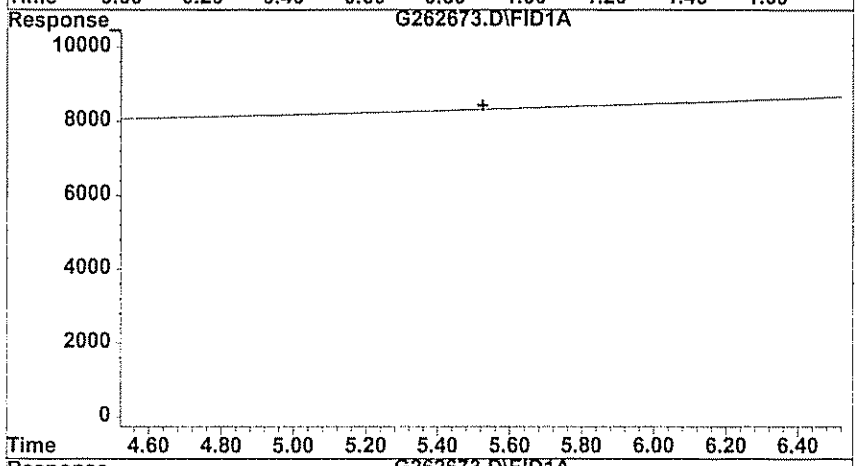
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





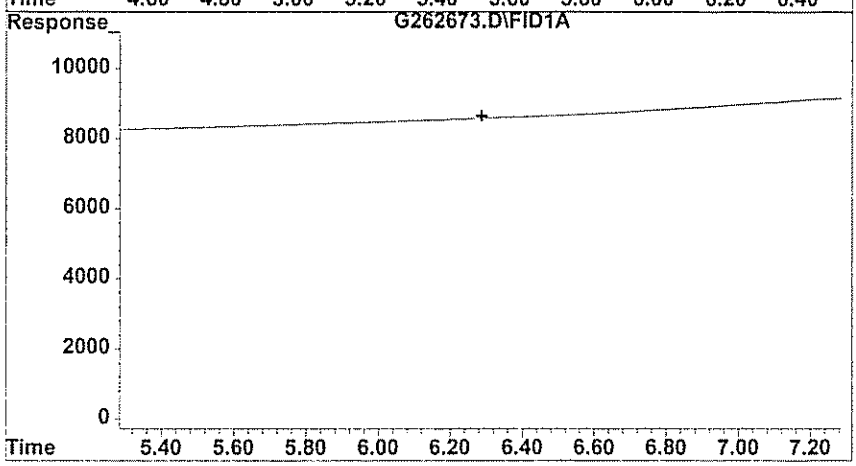
#1 Methane

R.T.: 0.640 min
Delta R.T.: 0.013 min
Response: 1435
Conc: 9.18 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-100-1/2
Sample Volume :	10	Lab File ID :	G262669.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	180	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262669.D Vial: 11
Acq On : 25 Mar 2009 15:33 Operator: TG
Sample : 903098-008 Inst : GC-G
Misc : OU1-MW55-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 15:42 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Tar	Compounds				
1) T	ethane	0.65	28941	185.120	ppb
2) T	thane	0.00	0	N.D.	ppb
3) T	thylene	0.00	0	N.D.	ppb

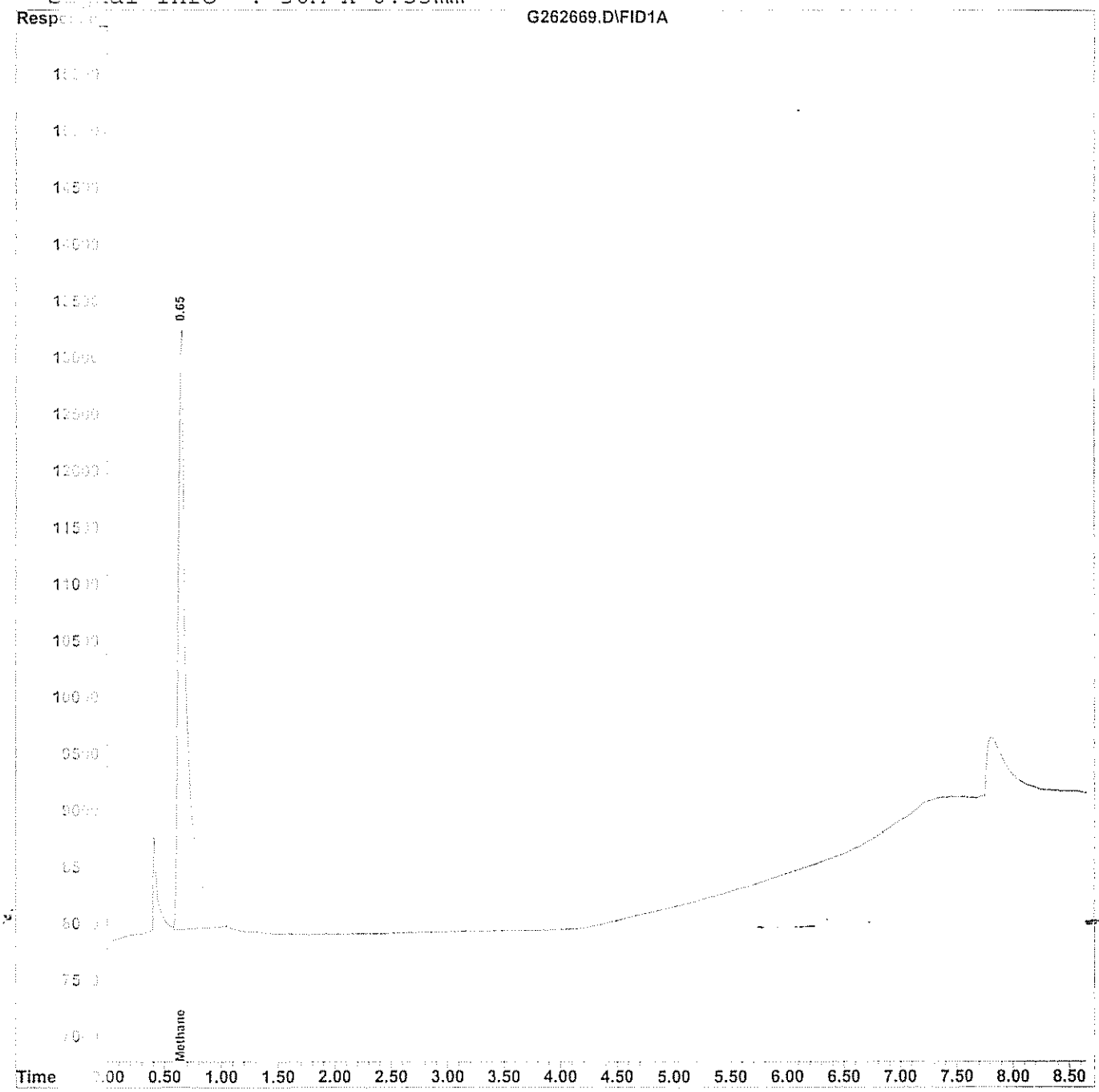
(f)=RT delta > 1/2 Window (m)=manually int

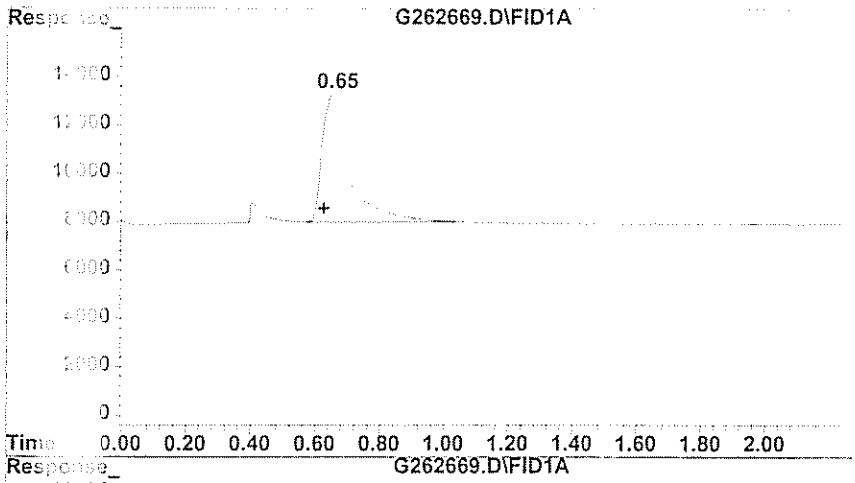
Quantitation Report

Data File : H:\GCDATA\G\032509\G262669.D Vial: 11
Acq On : 25 Mar 2009 15:33 Operator: TG
Sample : 903098-008 Inst : GC-G
Misc : OU1-MW55-0309,CH2M,WATER,10ML Multiplr: 1.00
Int File : rteint.p
Quant Time: Mar 25 15:42 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

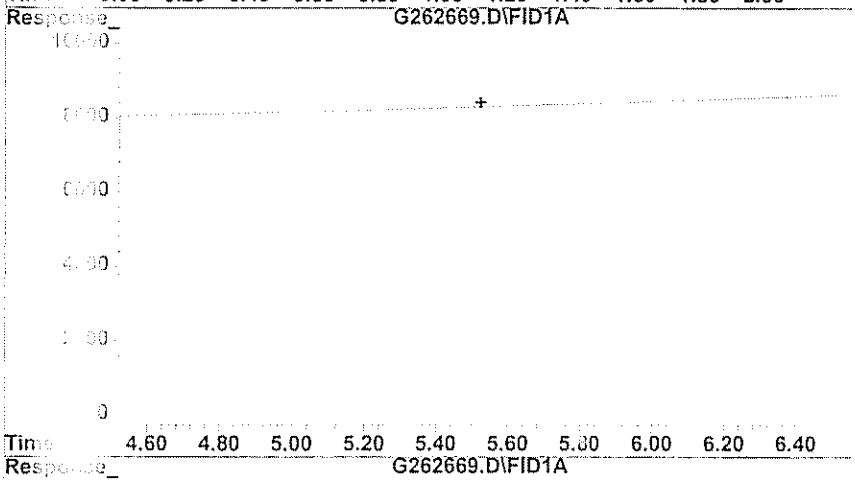
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





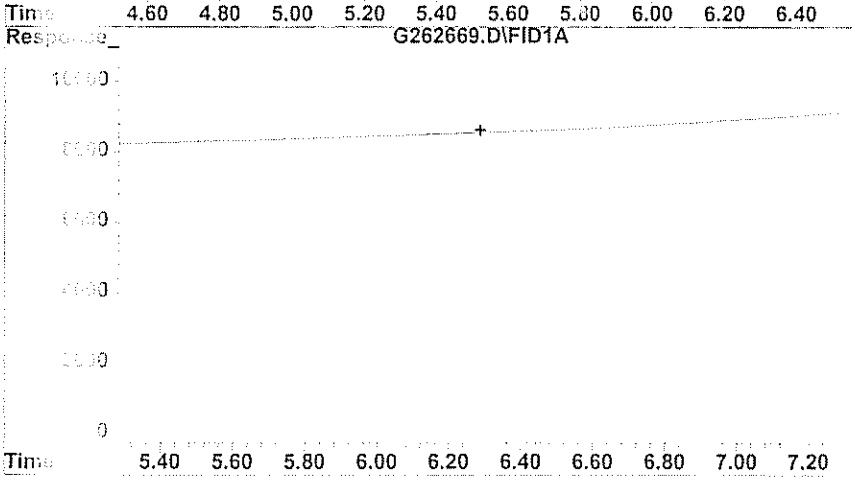
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.023 min
Response: 28941
Conc: 185.12 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-MW55-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-008-101-2/2
Sample Volume :	.5	Lab File ID :	G262671.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	190	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262671.D Vial: 13
Acq On : 25 Mar 2009 16:06 Operator: TG
Sample : 903098-008DL Inst : GC-G
Misc : OU1-MW55-0309,CH2M,WATER,10ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 16:15 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) T Methane	0.65	1471	9.409	ppb	m
2) T Ethane	0.00	0	N.D.	ppb	
3) T Ethylene	0.00	0	N.D.	ppb	

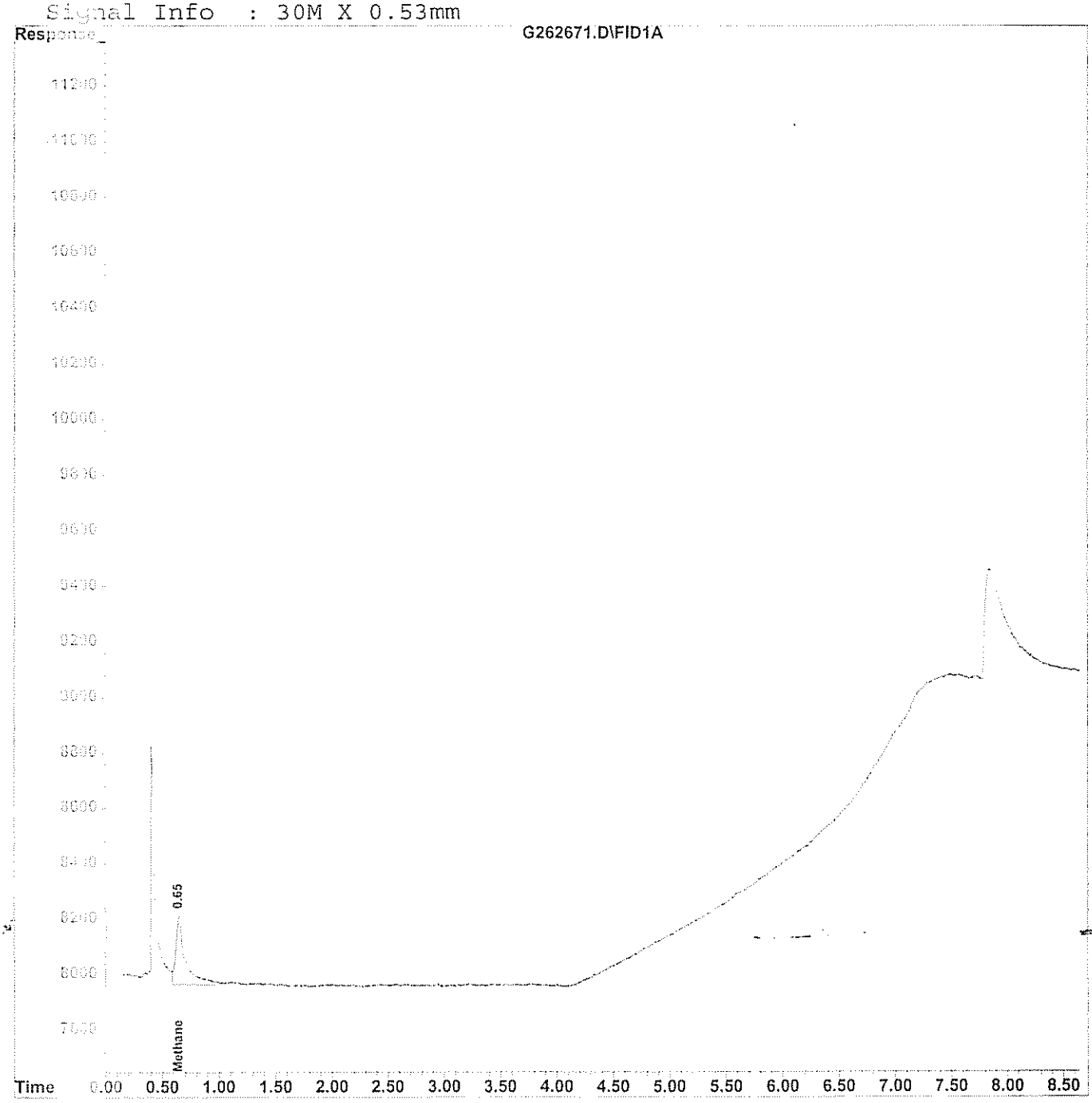
(f)=RT Delta > 1/2 Window (m)=manual int
G262671.D RSK0320.M Wed Mar 25 16:17:45 2009 W28_IOANNIDE Page 1

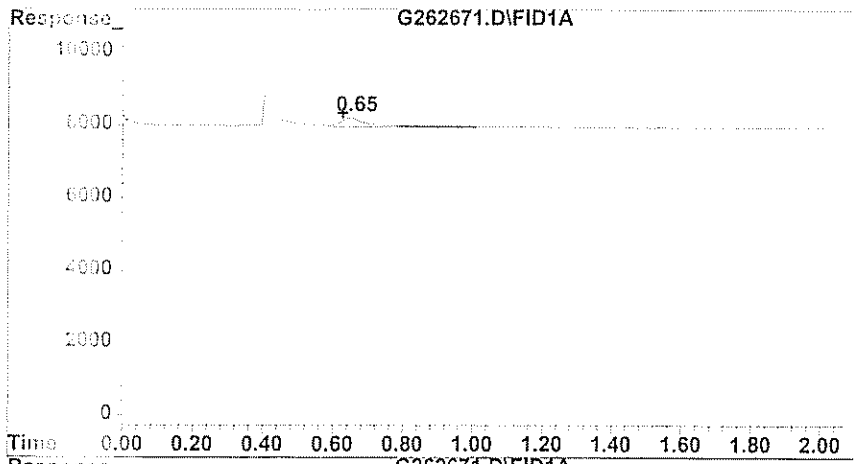
Quantitation Report

Data File : H:\GCDATA\G\032509\G262671.D Vial: 13
Acq On : 25 Mar 2009 16:06 Operator: TG
Sample : 903098-008DL Inst : GC-G
Misc : OU1-MW55-0309,CH2M,WATER,10ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 16:15 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

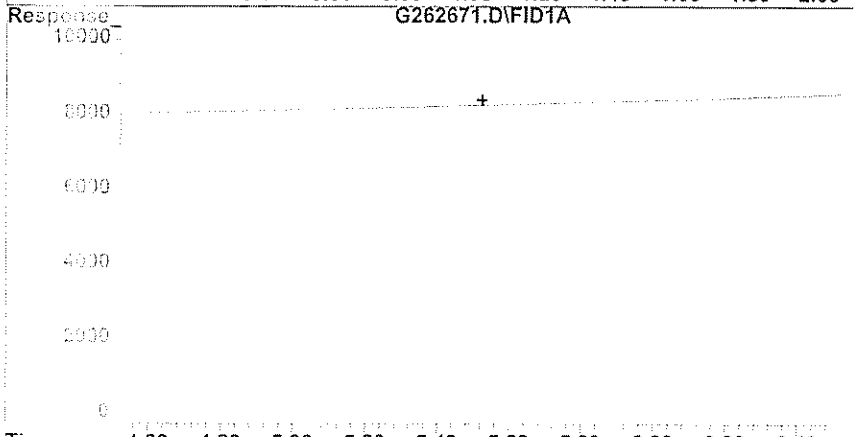
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





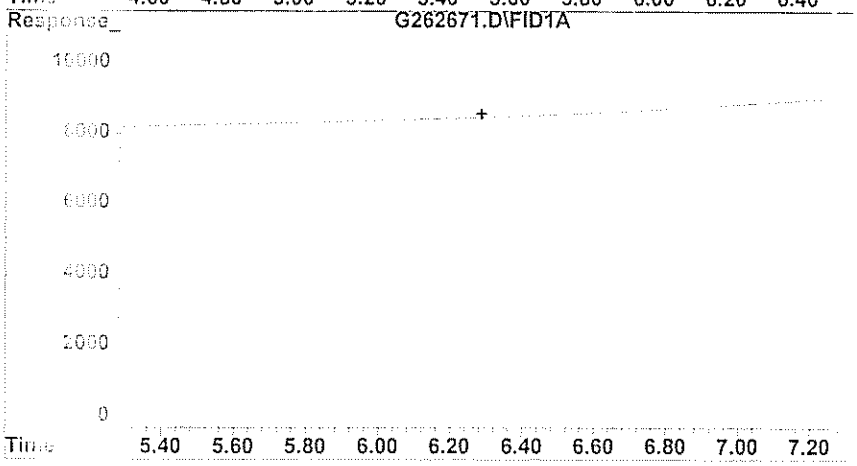
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.023 min
Response: 1471
Conc: 9.41 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-102-1/2
Sample Volume :	10	Lab File ID :	G262677.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	26	
74-82-8	Methane	130	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262677.D Vial: 19
Acq On : 25 Mar 2009 18:15 Operator: TG
Sample : 903098-009 Inst : GC-G
Misc : OU1-52GW62-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 18:25 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units
Target Compounds						
1)	T	Methane	0.64	19826	126.816	ppb
2)	T	Ethane	0.00	0	N.D.	ppb
3)	T	Ethylene	6.32	790	26.572	ppb

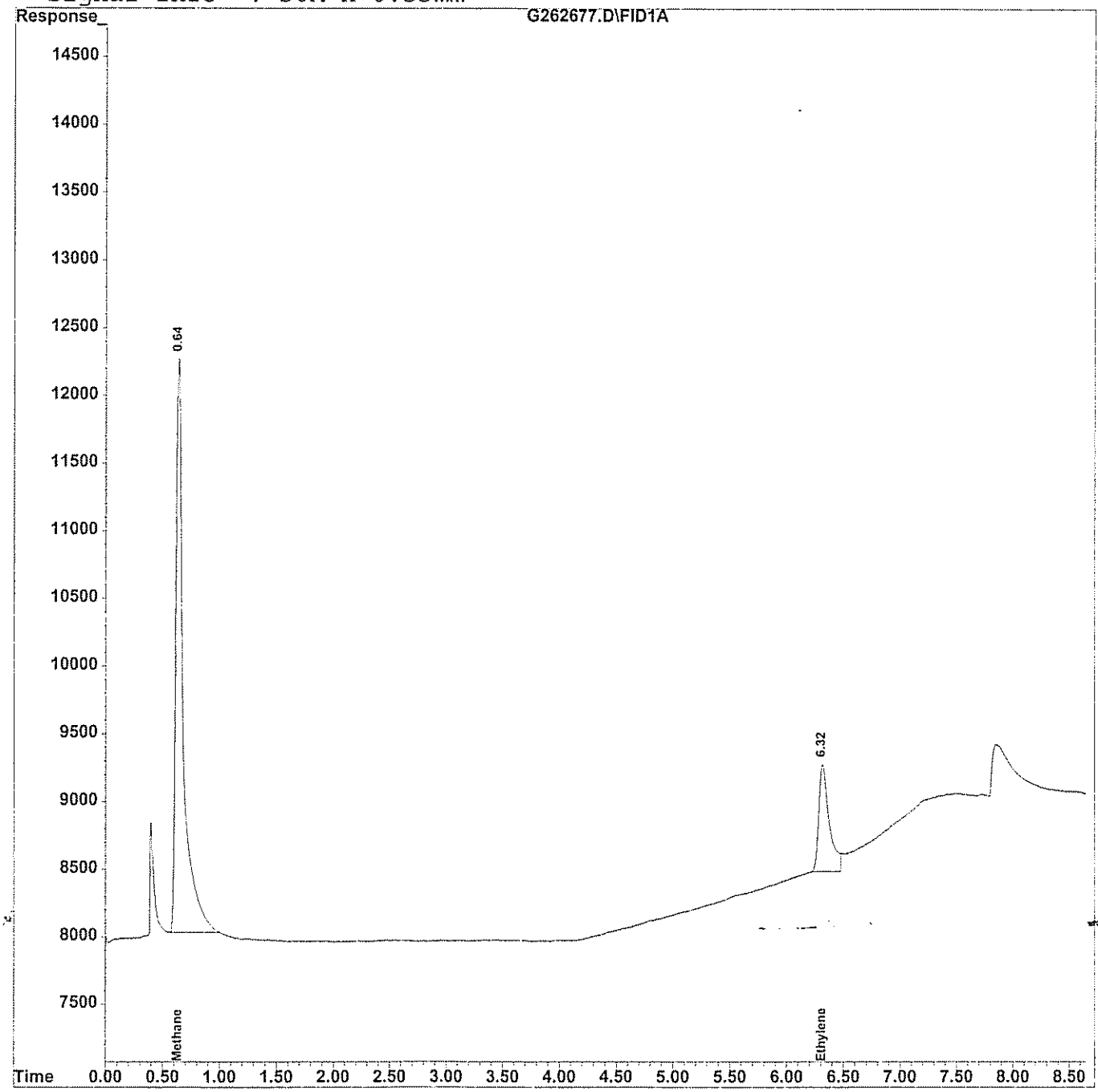
(f)=RT Delta > 1/2 Window (m)=manual int.

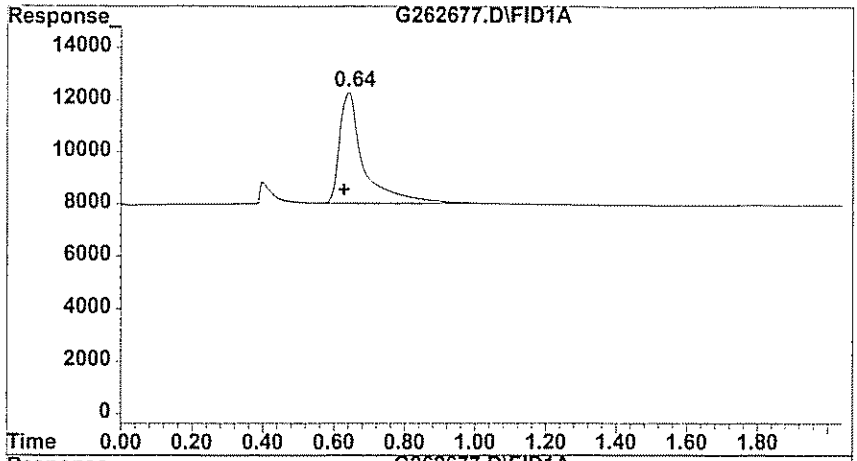
Quantitation Report

Data File : H:\GCDATA\G\032509\G262677.D Vial: 19
Acq On : 25 Mar 2009 18:15 Operator: TG
Sample : 903098-009 Inst : GC-G
Misc : OU1-52GW62-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 18:25 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

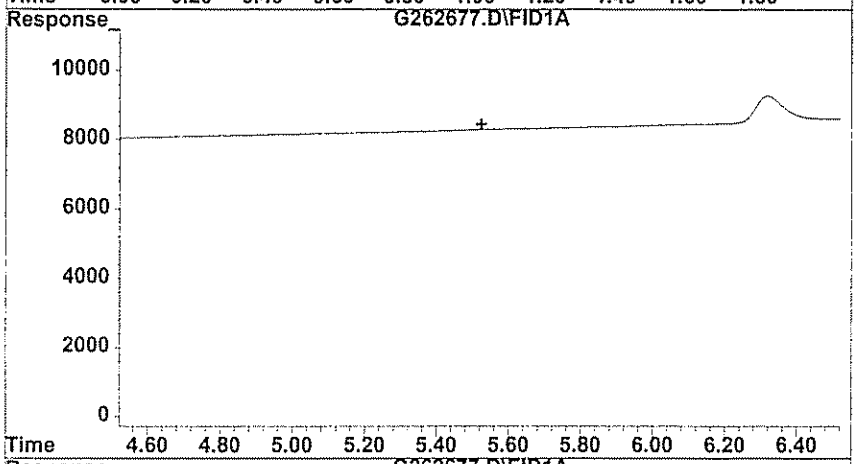
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





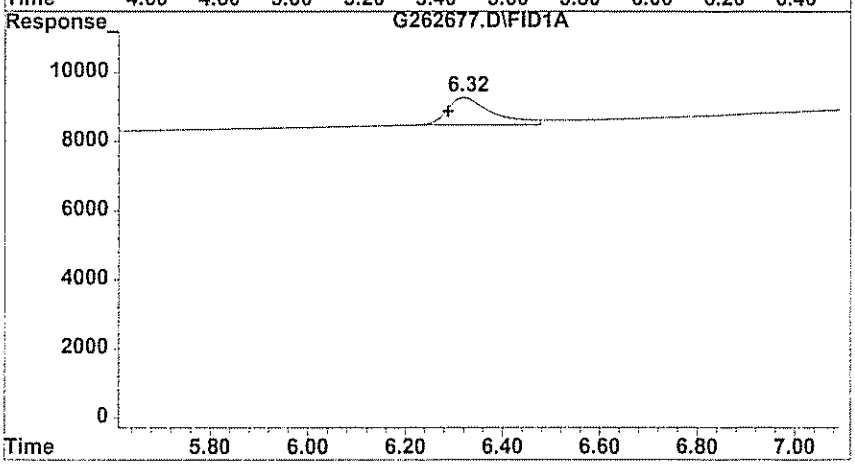
#1 Methane

R.T.: 0.640 min
Delta R.T.: 0.013 min
Response: 19826
Conc: 126.82 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.030 min
Response: 790
Conc: 26.57 ppb

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW62-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-009-103-2/2
Sample Volume :	1	Lab File ID :	G262676.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	100	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262676.D Vial: 18
Acq On : 25 Mar 2009 18:01 Operator: TG
Sample : 903098-009DL Inst : GC-G
Misc : OU1-52GW62-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 18:12 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.64	1558	9.966	ppb	m
2)	T	Ethane	0.00	0	N.D.	ppb	
3)	T	Ethylene	0.00	0	N.D.	ppb	

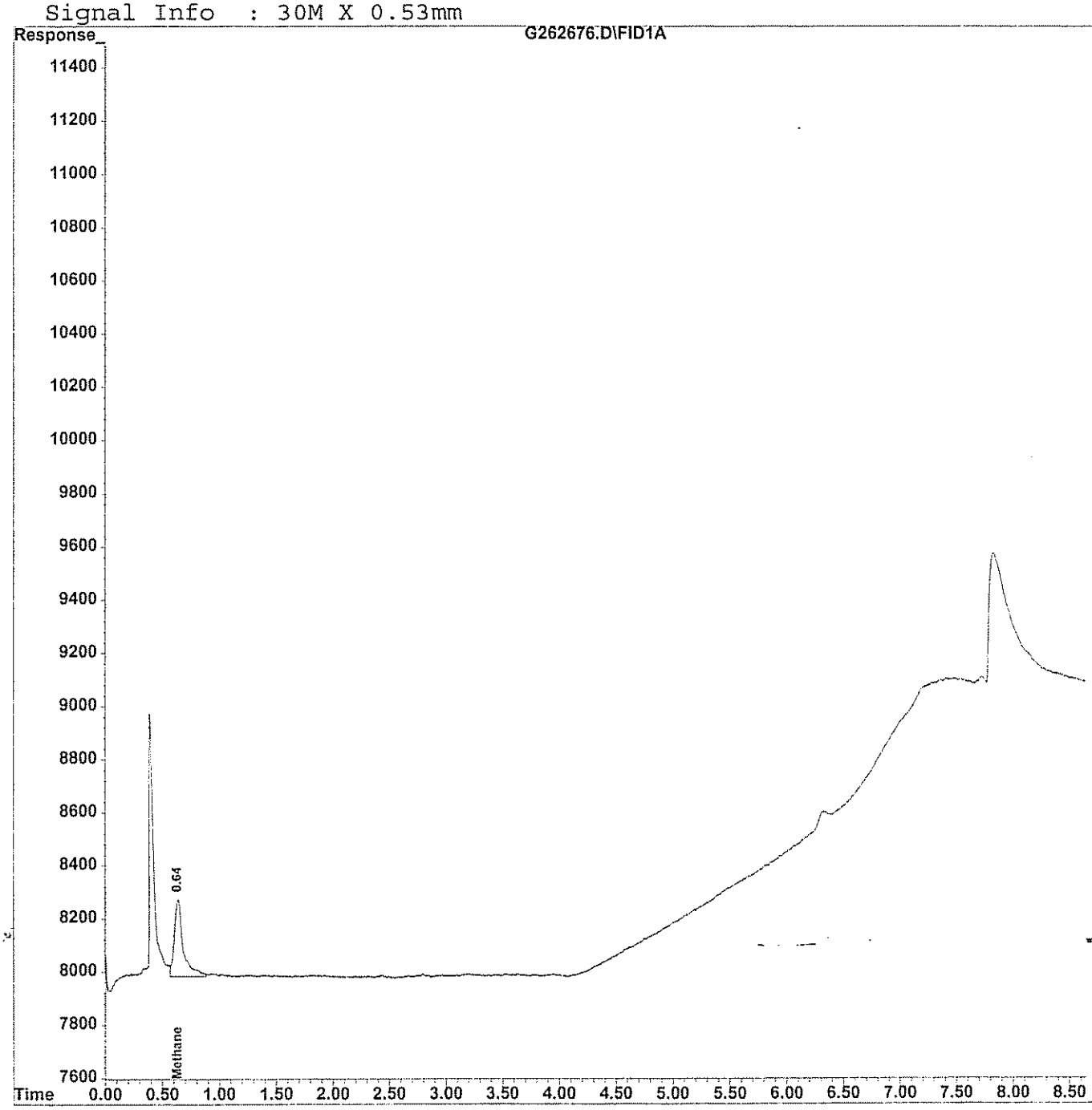
(f)=RT Delta > 1/2 Window (m)=manual int

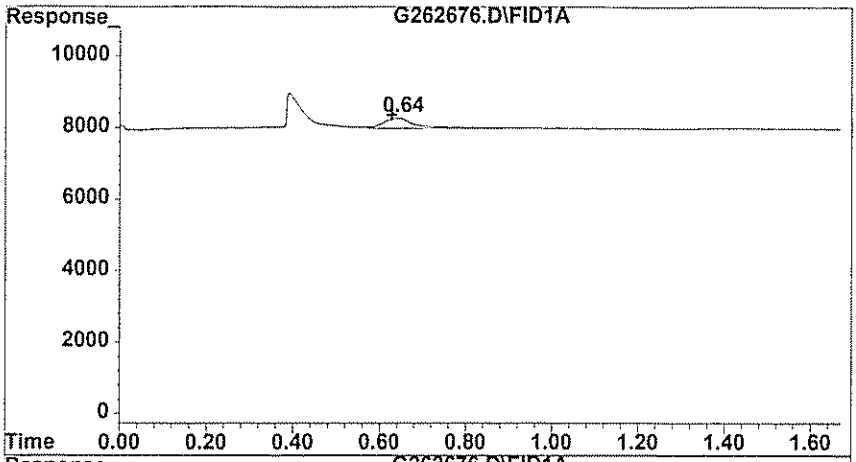
Quantitation Report

Data File : H:\GCDATA\G\032509\G262676.D Vial: 18
Acq On : 25 Mar 2009 18:01 Operator: TG
Sample : 903098-009DL Inst : GC-G
Misc : OU1-52GW62-0309,CH2M,WATER,10ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 18:12 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

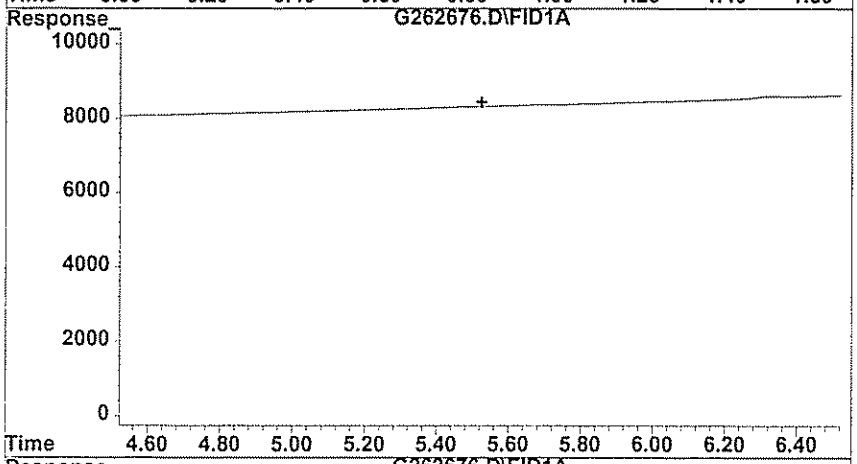
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





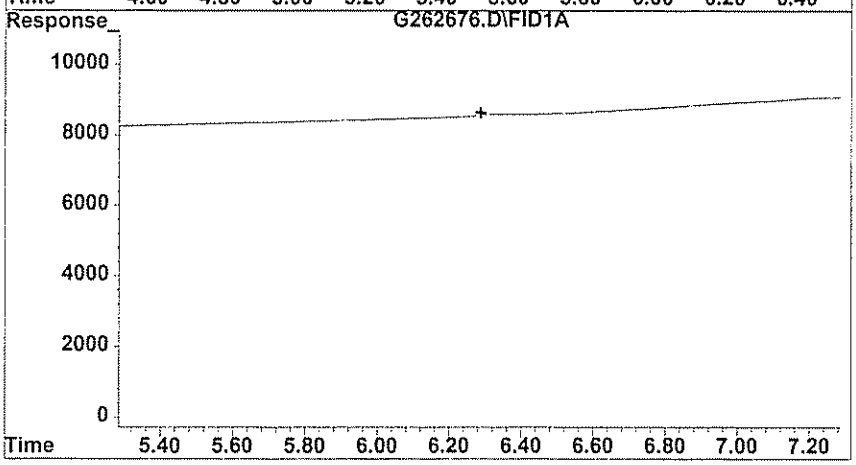
#1 Methane

R.T.: 0.640 min
Delta R.T.: 0.013 min
Response: 1558
Conc: 9.97 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-104-1/2
Sample Volume :	10	Lab File ID :	G262678.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	41	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262678.D Vial: 20
Acq On : 25 Mar 2009 18:31 Operator: TG
Sample : 903098-010 Inst : GC-G
Misc : OU1-52GW61-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 18:41 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	6439	41.187	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

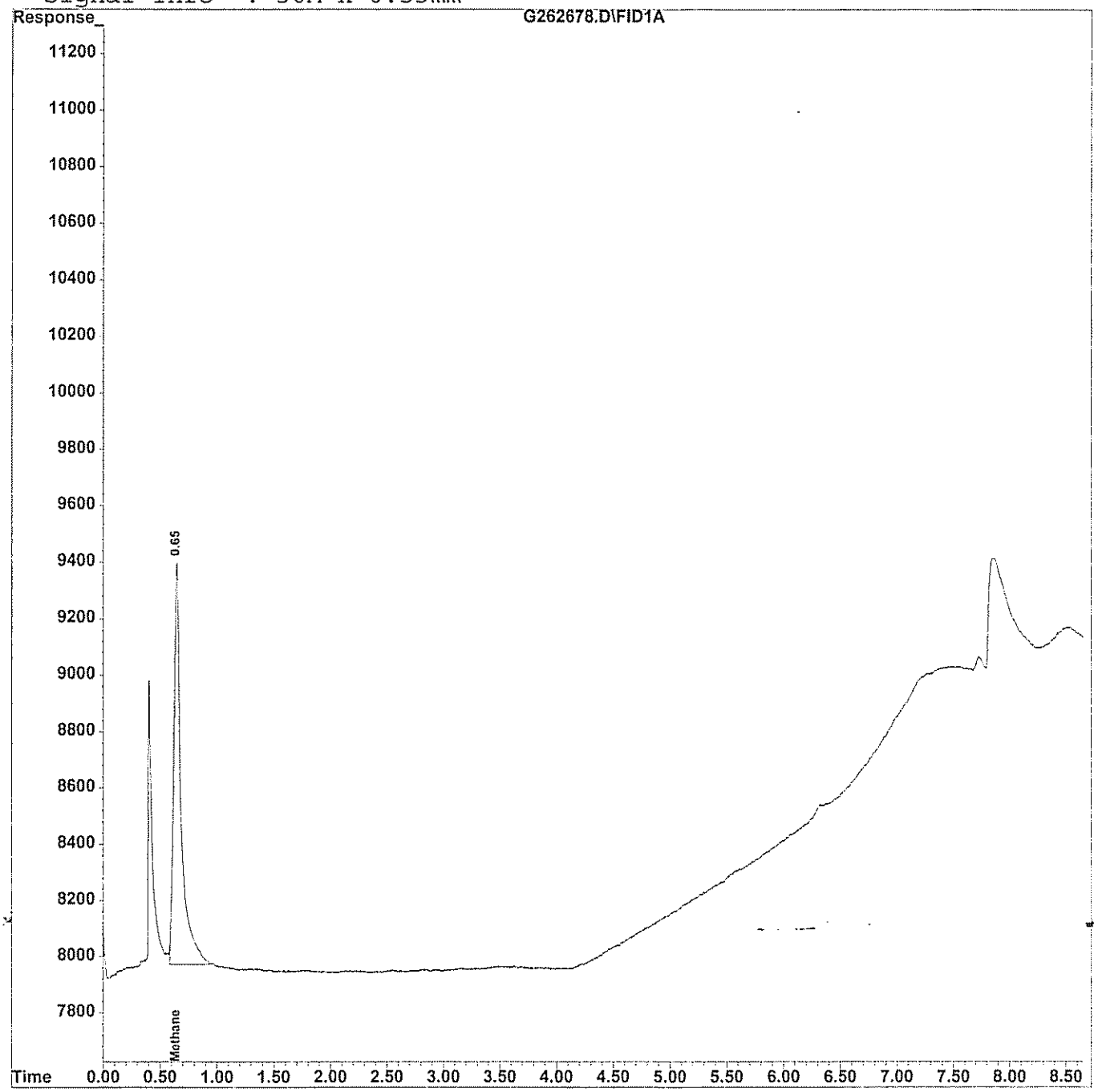
(f)=RT Delta > 1/2 Window (m)=manual int

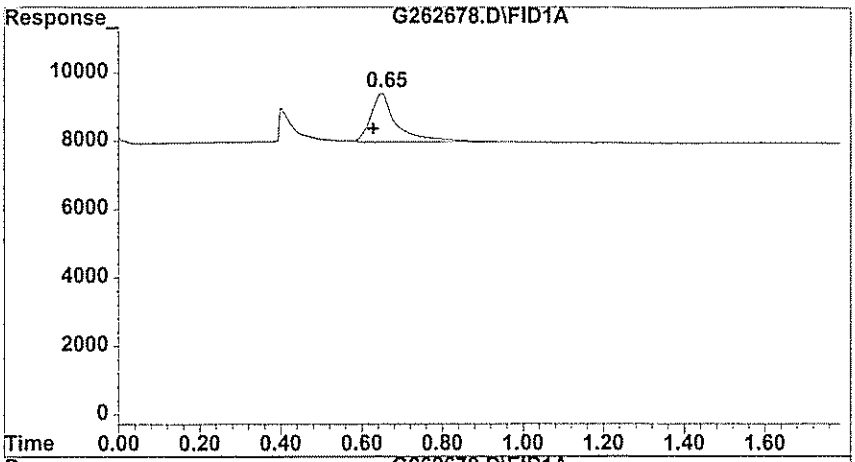
Quantitation Report

Data File : H:\GCDATA\G\032509\G262678.D Vial: 20
Acq On : 25 Mar 2009 18:31 Operator: TG
Sample : 903098-010 Inst : GC-G
Misc : OU1-52GW61-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 18:41 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

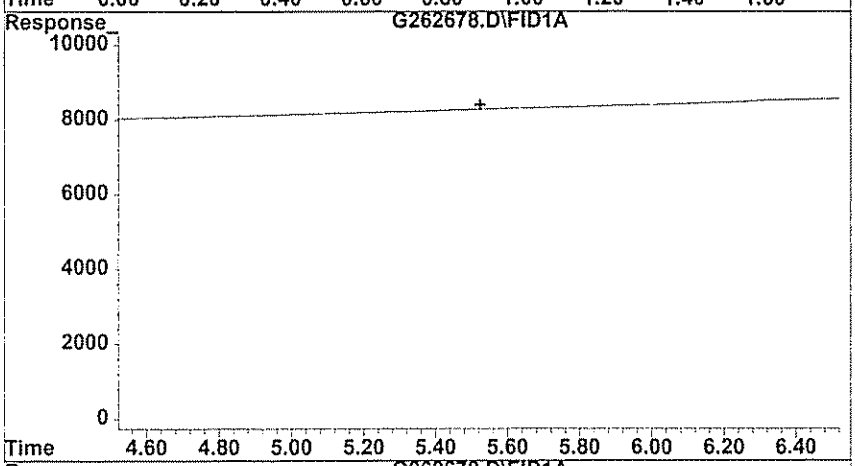
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





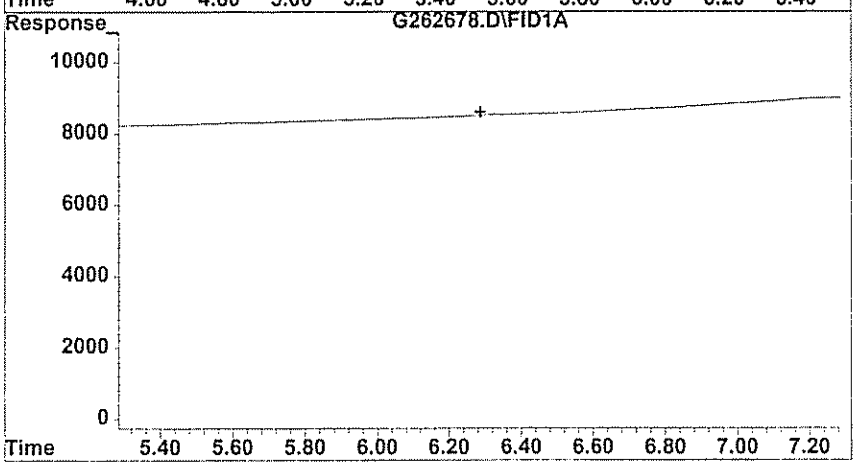
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 6439
Conc: 41.19 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW61-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-010-104-1/2
Sample Volume :	10	Lab File ID :	G262681.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	5
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	31	U
74-85-1	Ethene	29	U
74-82-8	Methane	32	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262681.D Vial: 23
Acq On : 25 Mar 2009 19:19 Operator: TG
Sample : 903098-010DL Inst : GC-G
Misc : OU1-N4GW61-0309,CH2M,WATER,10ML,5X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 19:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	1013	6.480	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

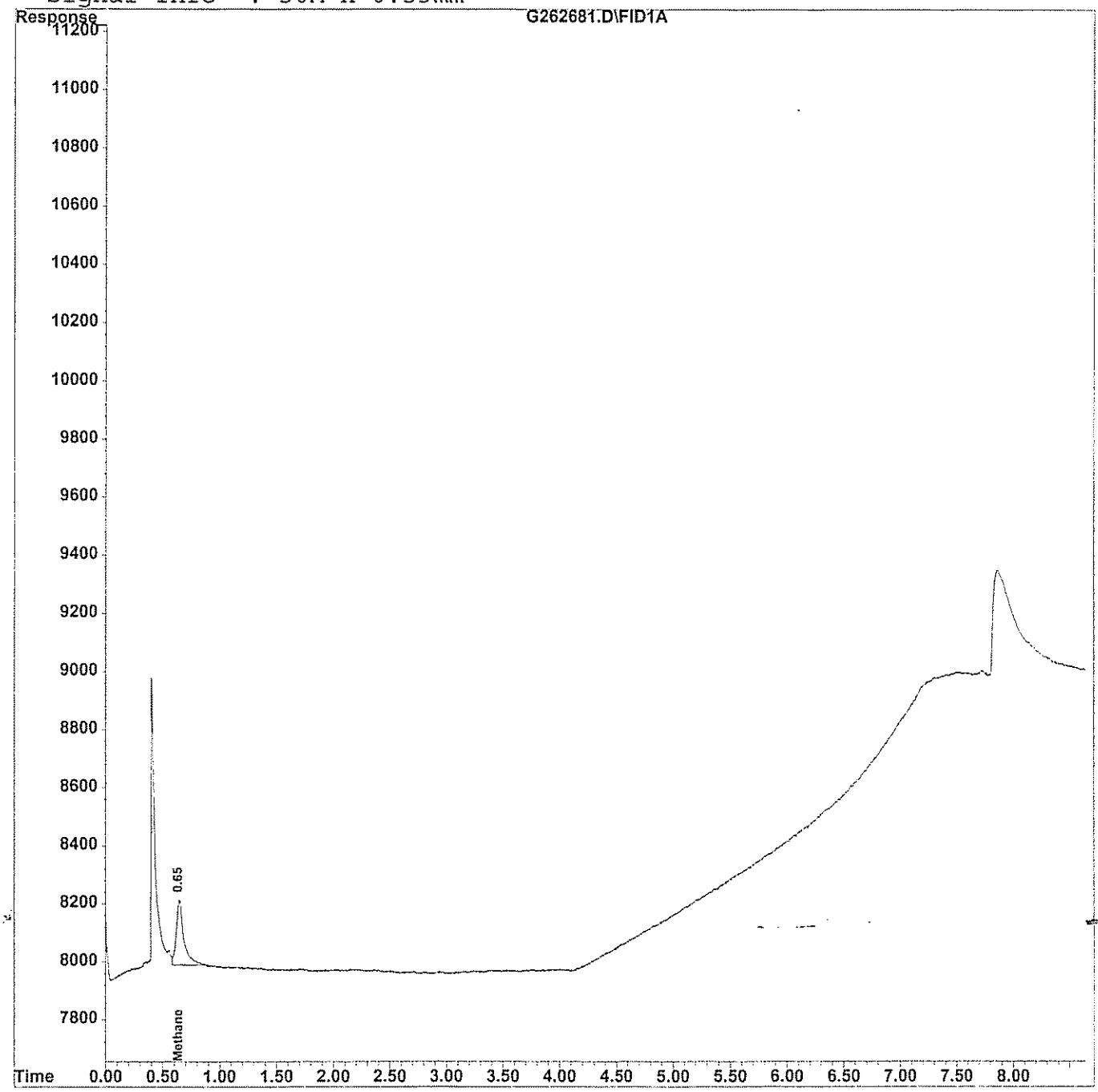
(f)=RT Delta > 1/2 Window (m)=manual int

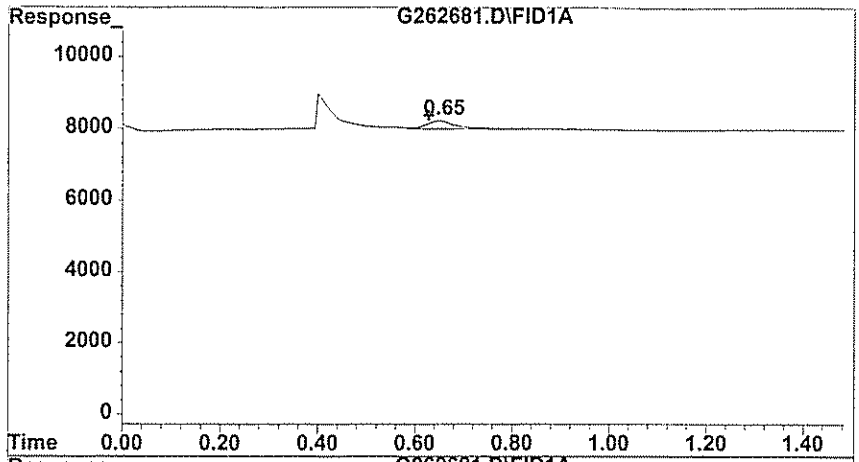
Quantitation Report

Data File : H:\GCDATA\G\032509\G262681.D Vial: 23
Acq On : 25 Mar 2009 19:19 Operator: TG
Sample : 903098-010DL Inst : GC-G
Misc : OU1-N4GW61-0309,CH2M,WATER,10ML,5X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 19:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

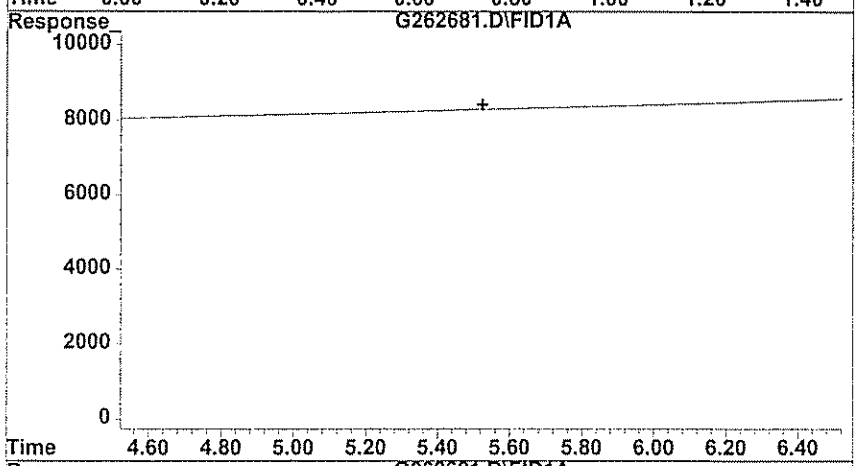
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





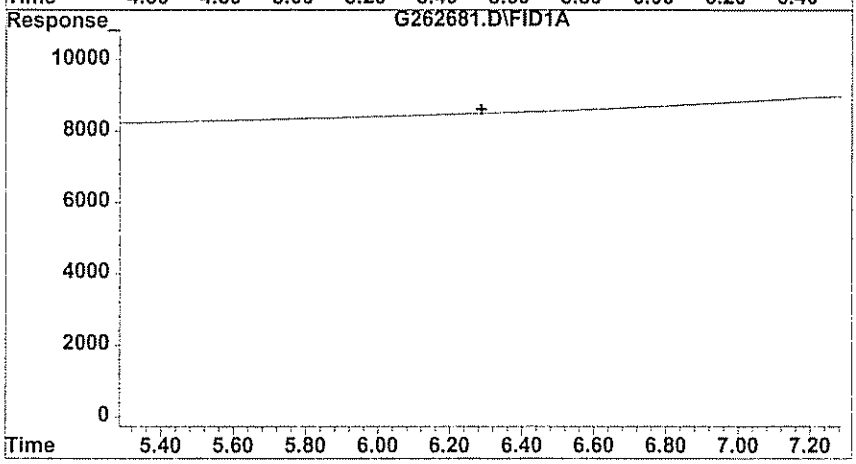
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 1013
Conc: 6.48 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW07-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-011-106-1/2
Sample Volume :	10	Lab File ID :	G262679.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	33	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262679.D Vial: 21
Acq On : 25 Mar 2009 18:49 Operator: TG
Sample : 903098-011 Inst : GC-G
Misc : OU1-N4GW07-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 19:00 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	5181	33.140	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

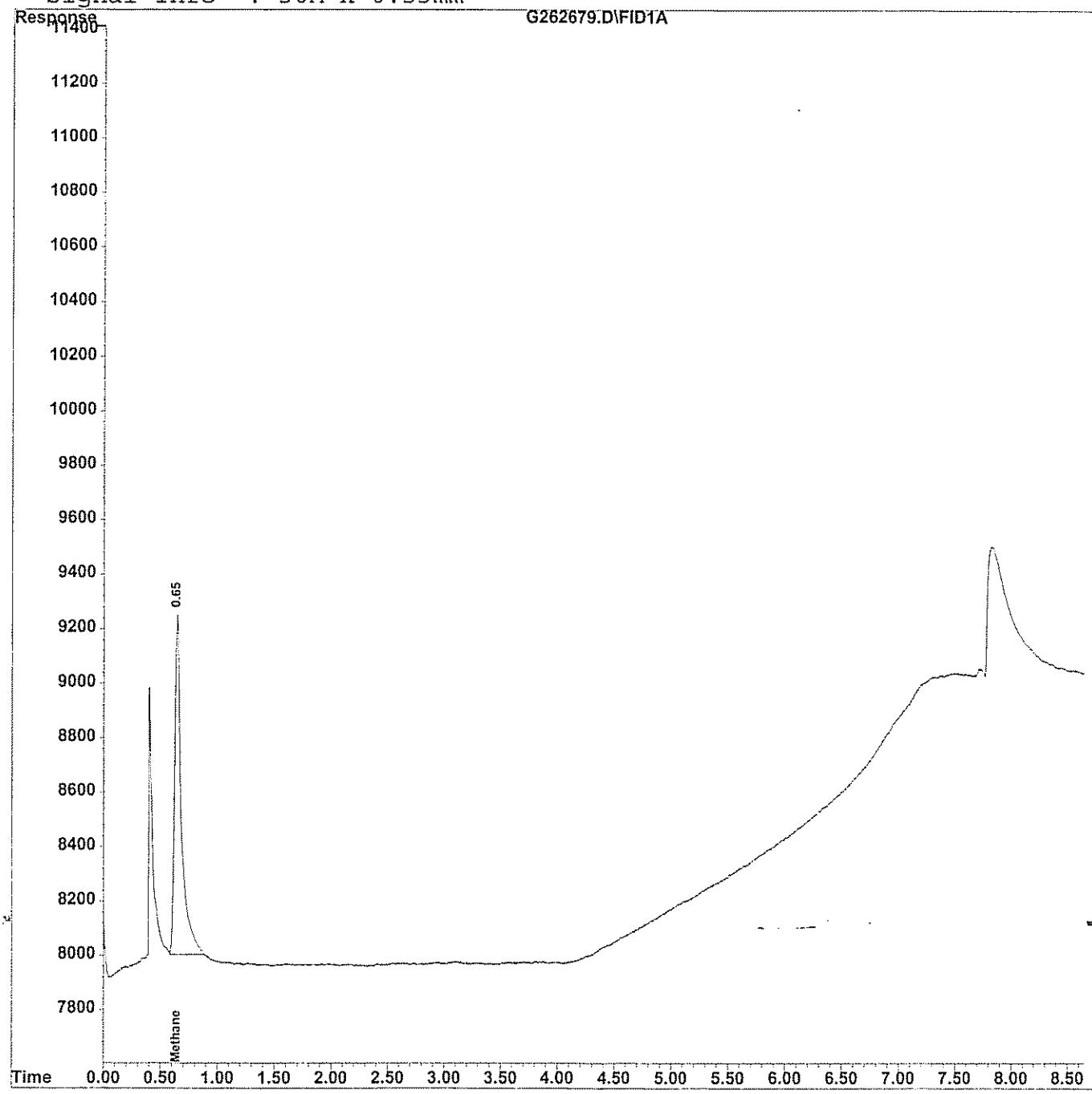
(f)=RT Delta > 1/2 Window (m)=manual int.

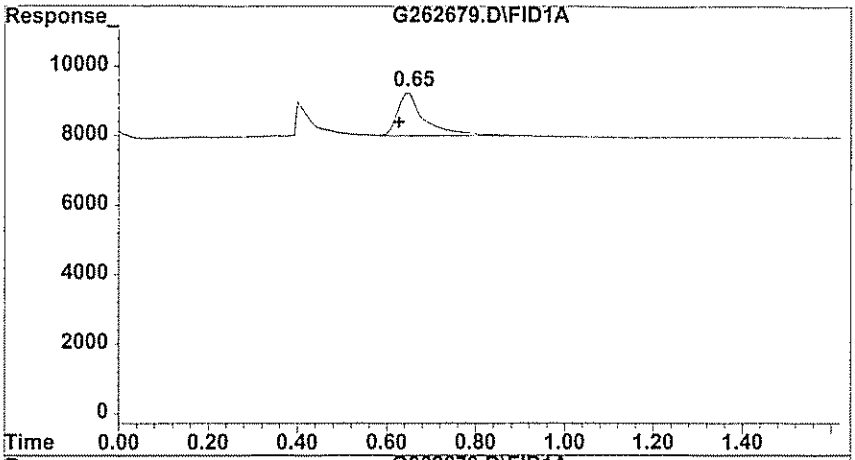
Quantitation Report

Data File : H:\GCDATA\G\032509\G262679.D Vial: 21
Acq On : 25 Mar 2009 18:49 Operator: TG
Sample : 903098-011 Inst : GC-G
Misc : OU1-N4GW07-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 19:00 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

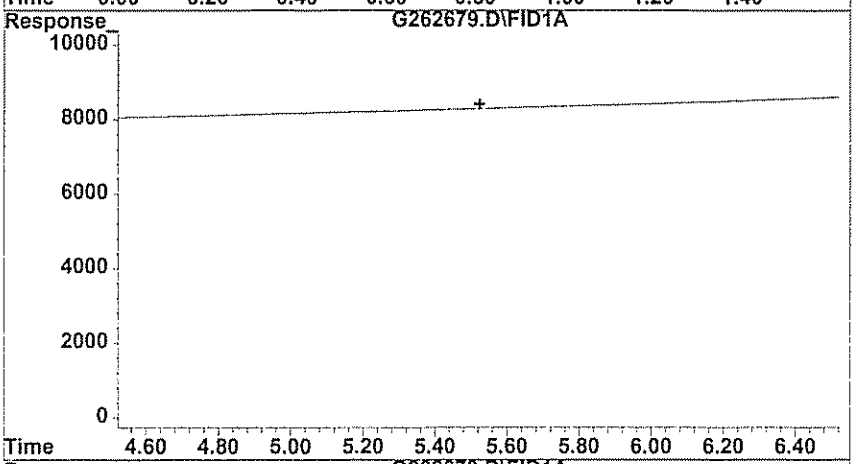
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





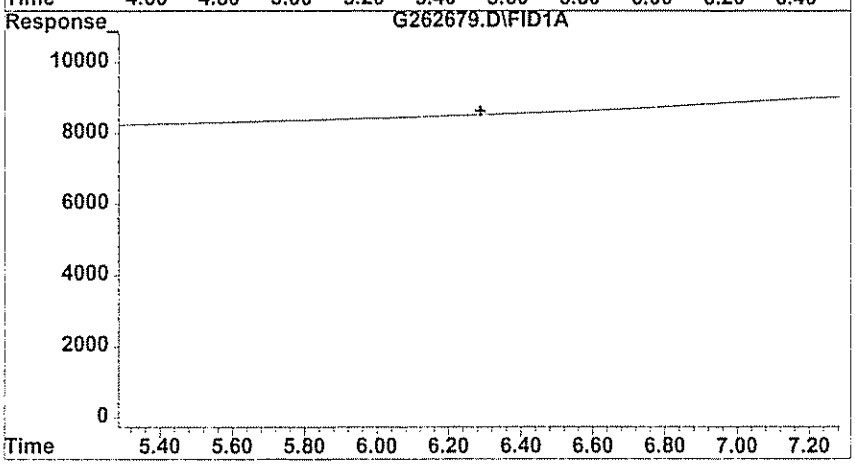
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 5181
Conc: 33.14 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-110-1/6
Sample Volume :	10	Lab File ID :	G262680.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	82	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262680.D Vial: 22
Acq On : 25 Mar 2009 19:04 Operator: TG
Sample : 903098-012 Inst : GC-G
Misc : OU1-N4GW09-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 19:13 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units
Target Compounds						
1)	T	Methane	0.65	12792	81.824	ppb
2)	T	Ethane	0.00	0	N.D.	ppb
3)	T	Ethylene	0.00	0	N.D.	ppb

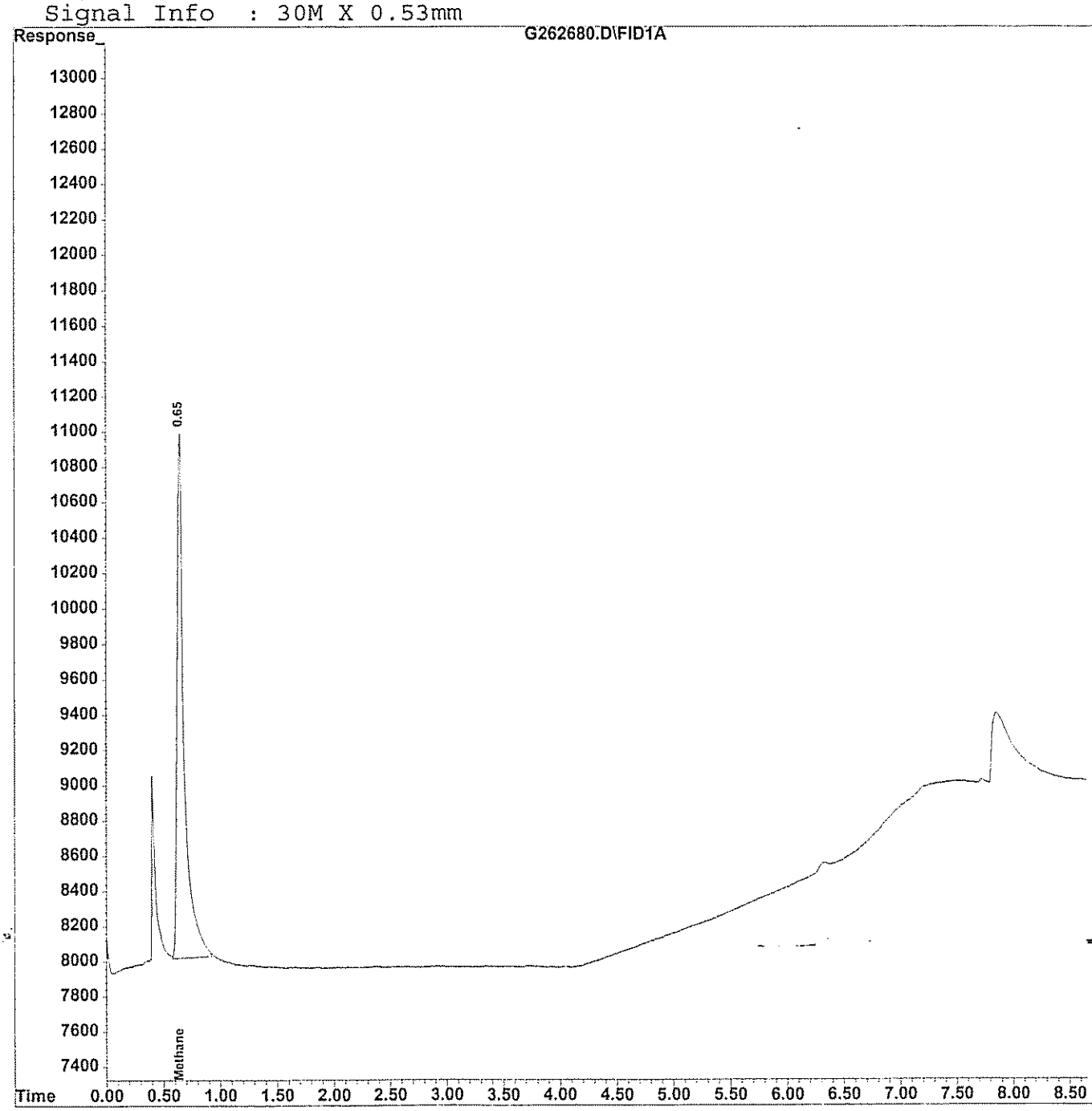
(f)=RT Delta > 1/2 Window (m)=manual int.

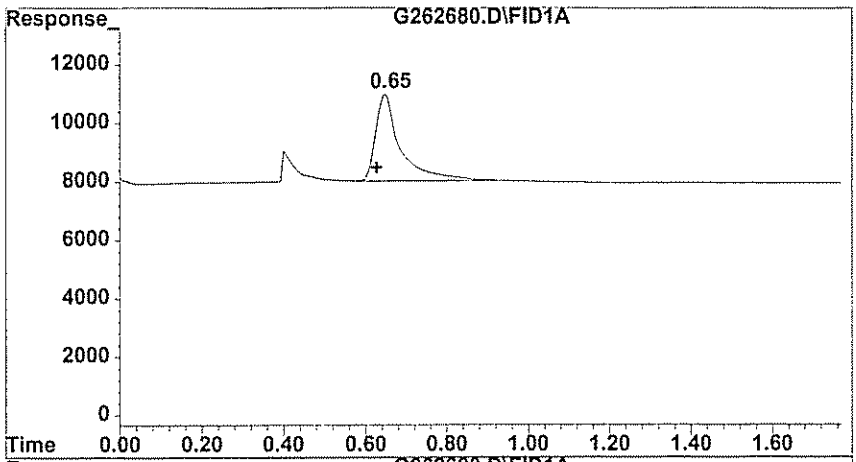
Quantitation Report

Data File : H:\GCDATA\G\032509\G262680.D Vial: 22
Acq On : 25 Mar 2009 19:04 Operator: TG
Sample : 903098-012 Inst : GC-G
Misc : OU1-N4GW09-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 19:13 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

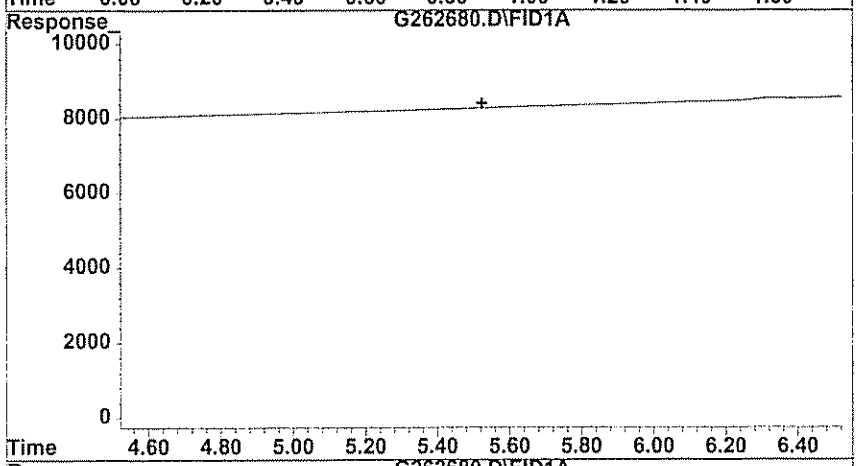
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





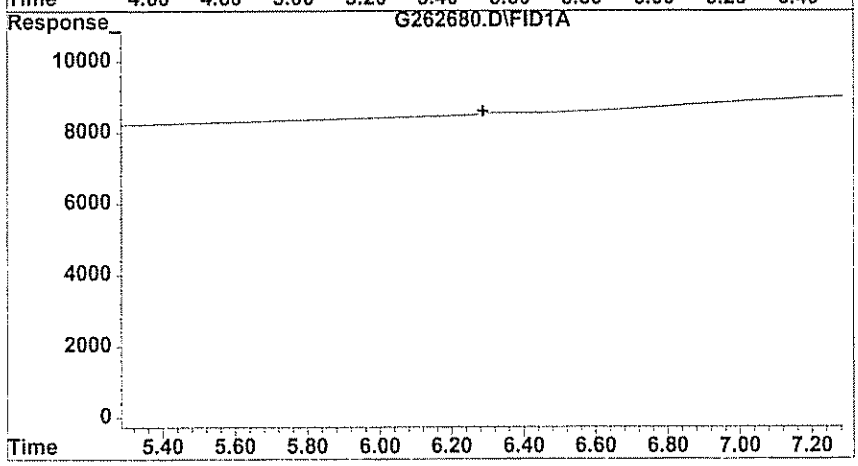
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.020 min
Response: 12792
Conc: 81.82 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-111-2/6
Sample Volume :	1	Lab File ID :	G262691.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	140	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262691.D Vial: 7
Acq On : 27 Mar 2009 12:00 Operator: NK
Sample : 903098-012DL Inst : GC-G
Misc : OU1-N4GW09-0309, CH2M, WATER, 1ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 30 7:13 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.62	2533	13.564	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

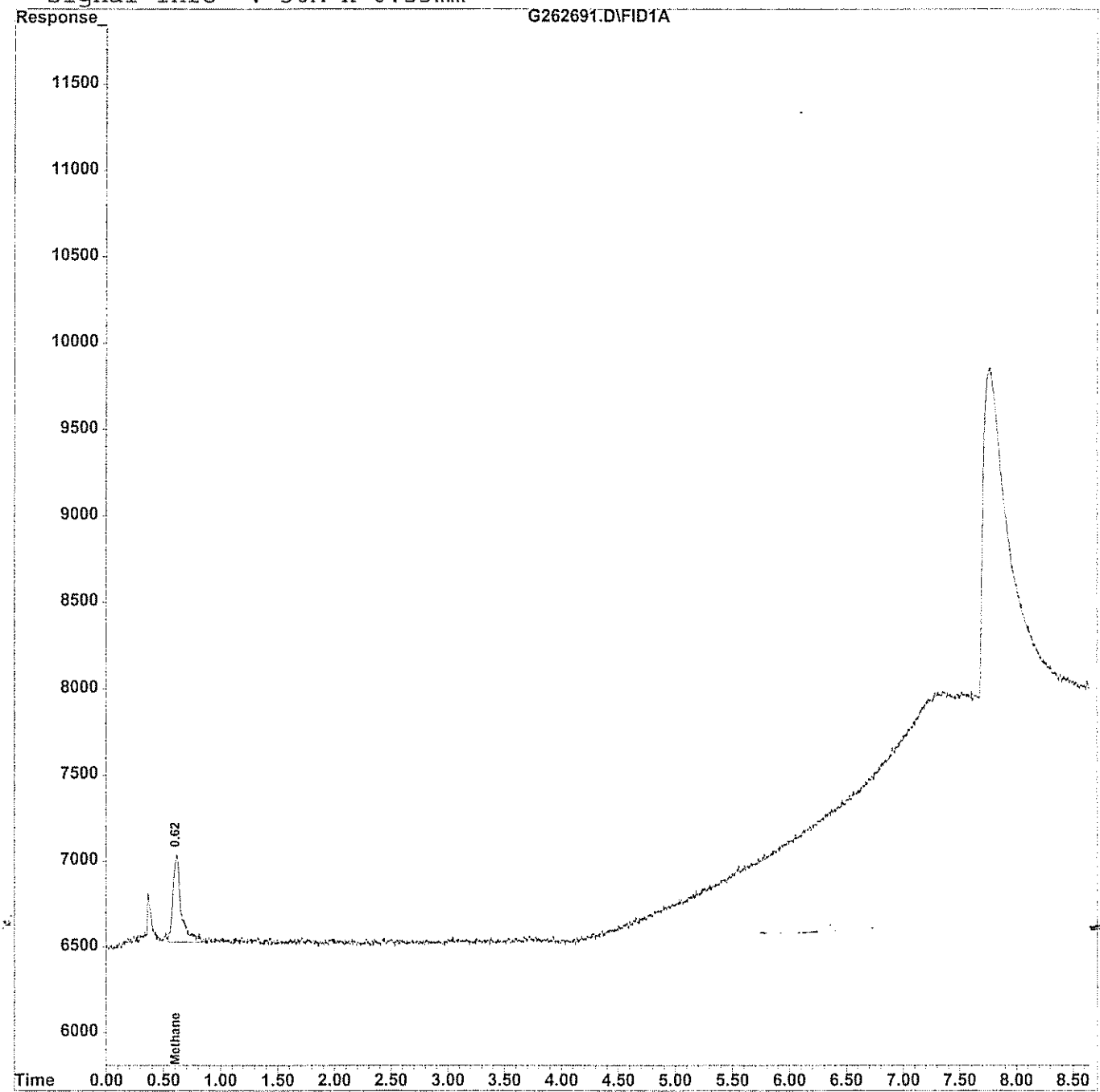
(f)=RT Delta > 1/2 Window (m)=manual int.

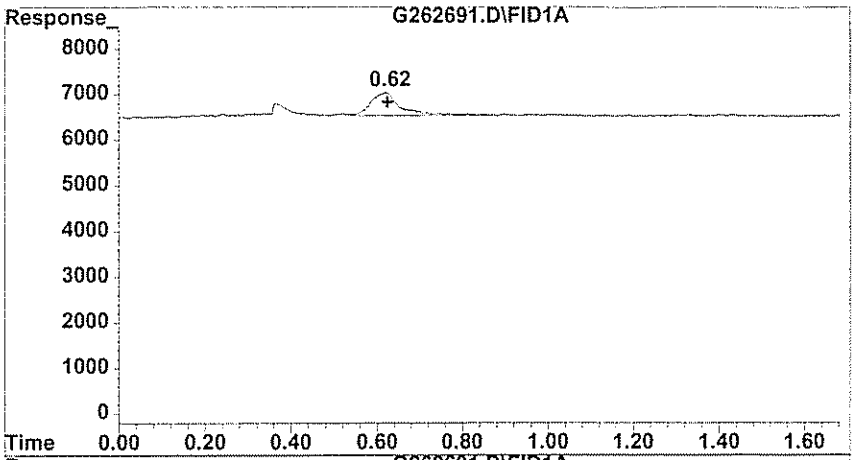
Quantitation Report

Data File : H:\GCDATA\G\032709\G262691.D Vial: 7
Acq On : 27 Mar 2009 12:00 Operator: NK
Sample : 903098-012DL Inst : GC-G
Misc : OU1-N4GW09-0309, CH2M, WATER, 1ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 30 7:13 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

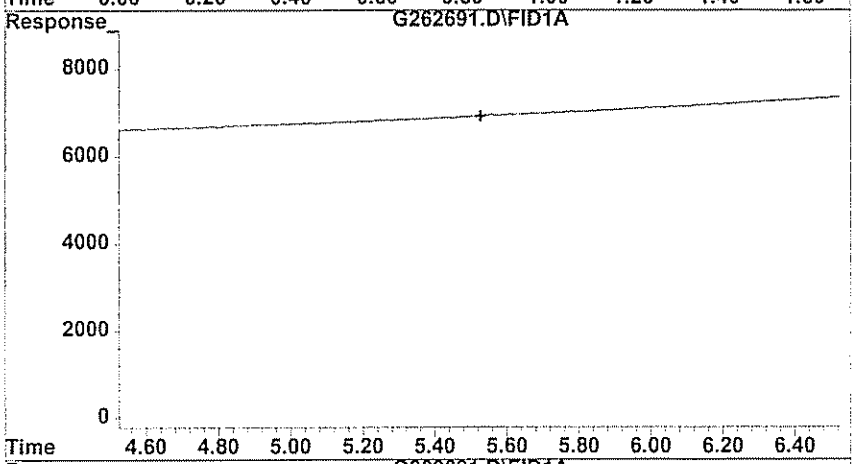
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





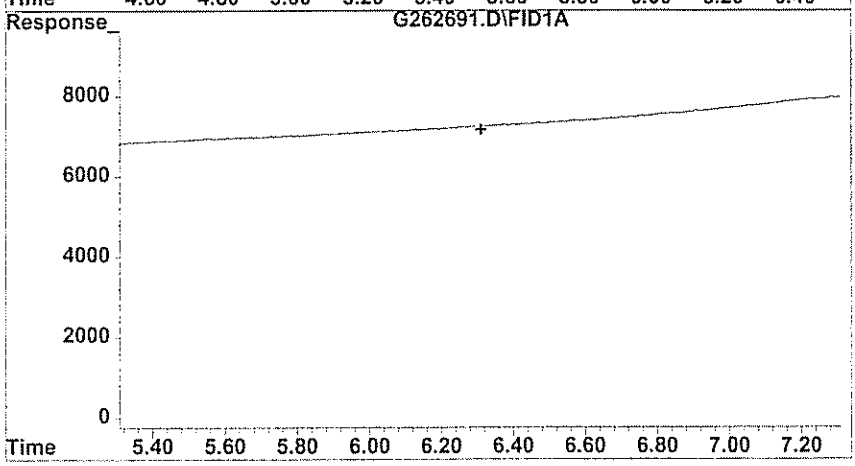
#1 Methane

R.T.:	0.617 min
Delta R.T.:	-0.007 min
Response:	2533
Conc:	13.56 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.527 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.310 min
Response:	0
Conc:	N.D.

C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009

Calibration Files
1 =G262567.D 2 =G262568.D 10 =G262571.D
5 =G262570.D 4 =G262569.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	1.844	1.715	1.208	1.507	1.544	1.563 E2	15.39
2)	T	Ethane	2.965	2.600	1.796	2.090	2.406	2.371 E1	19.04
3)	T	Ethylene	3.591	3.466	2.153	2.763	2.893	2.973 E1	19.52

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262567.D Vial: 1
Acq On : 20 Mar 2009 9:07 Operator: TG
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.63	614	4.075	ppb	m
2)	T	Ethane	5.48	185	8.853	ppb	m
3)	T	Ethylene	6.26	209	7.565	ppb	m

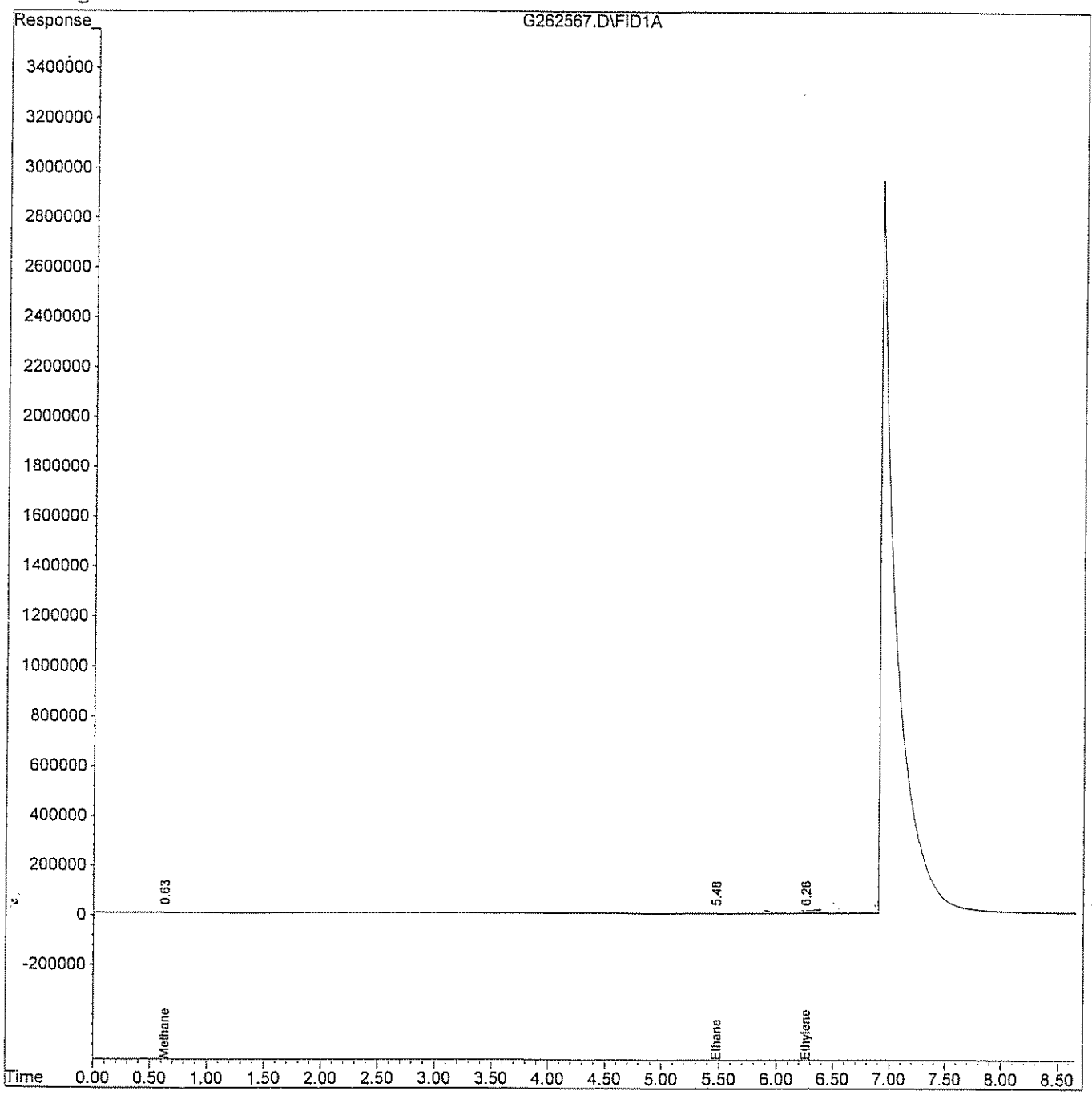
(f)=RT Delta > 1/2 Window (m)=manual int.

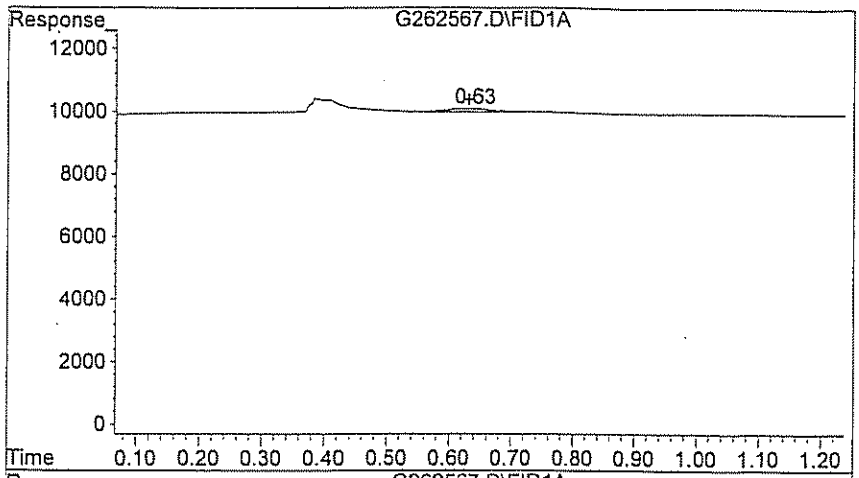
Quantitation Report

Data File : H:\GCDATA\G\032009\G262567.D Vial: 1
Acq On : 20 Mar 2009 9:07 Operator: TG
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:22 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

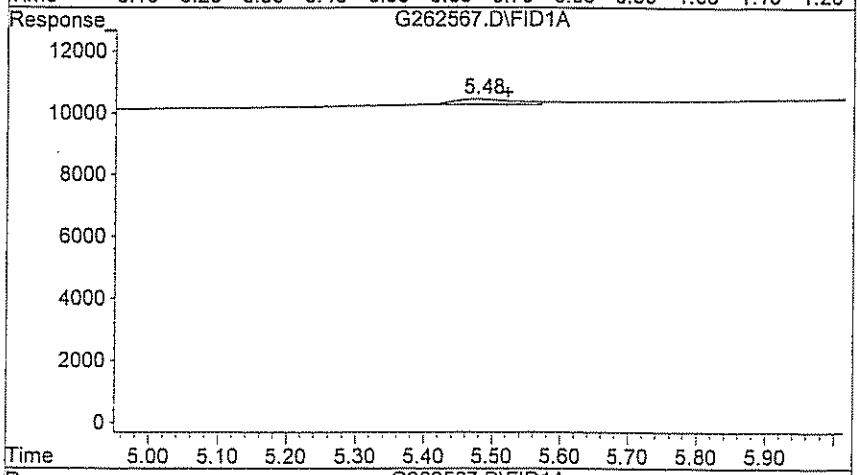
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





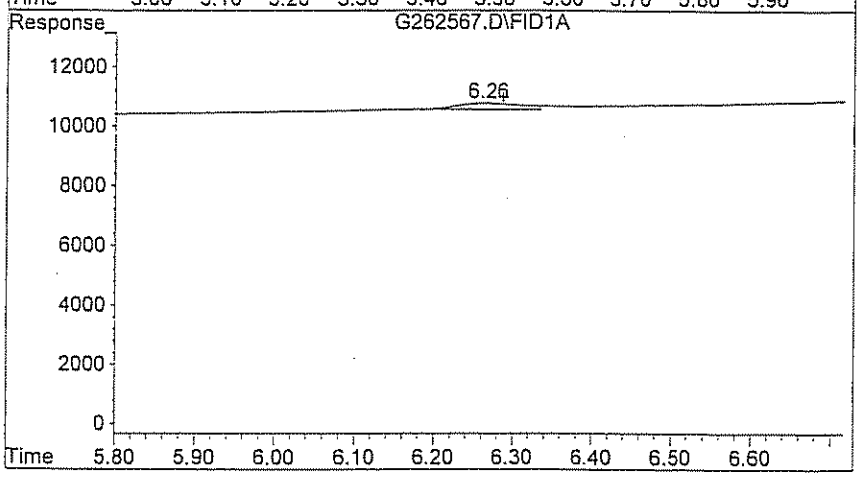
#1 Methane

R.T.: 0.630 min
Delta R.T.: 0.000 min
Response: 614
Conc: 4.08 ppb m



#2 Ethane

R.T.: 5.477 min
Delta R.T.: -0.043 min
Response: 185
Conc: 8.85 ppb m



#3 Ethylene

R.T.: 6.260 min
Delta R.T.: -0.027 min
Response: 209
Conc: 7.56 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262568.D Vial: 2
Acq On : 20 Mar 2009 9:23 Operator: TG
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.61	1149	6.859	ppb	m
2)	T	Ethane	5.45	325	12.860	ppb	m
3)	T	Ethylene	6.25	402	12.654	ppb	m

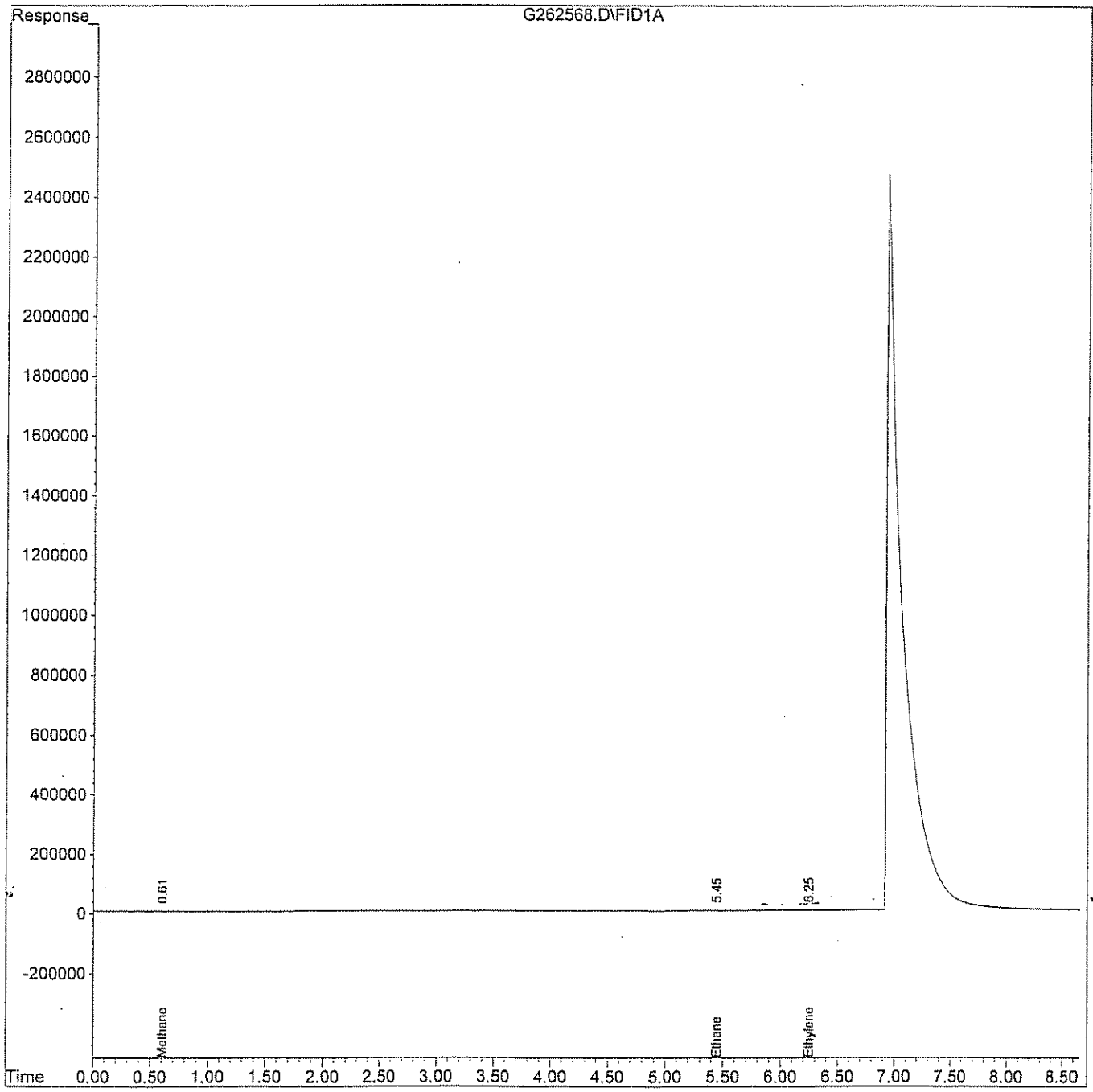
(f)=RT Delta > 1/2 Window (m)=manual int.

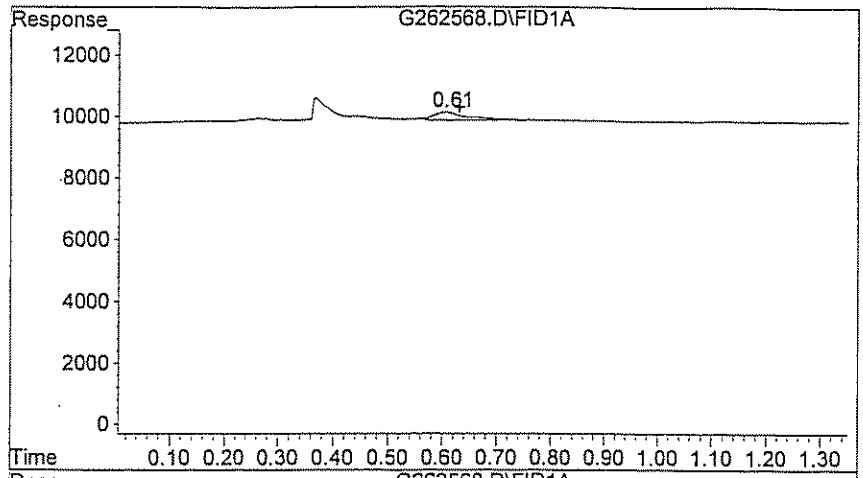
Quantitation Report

Data File : H:\GCDATA\G\032009\G262568.D Vial: 2
Acq On : 20 Mar 2009 9:23 Operator: TG
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:28 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

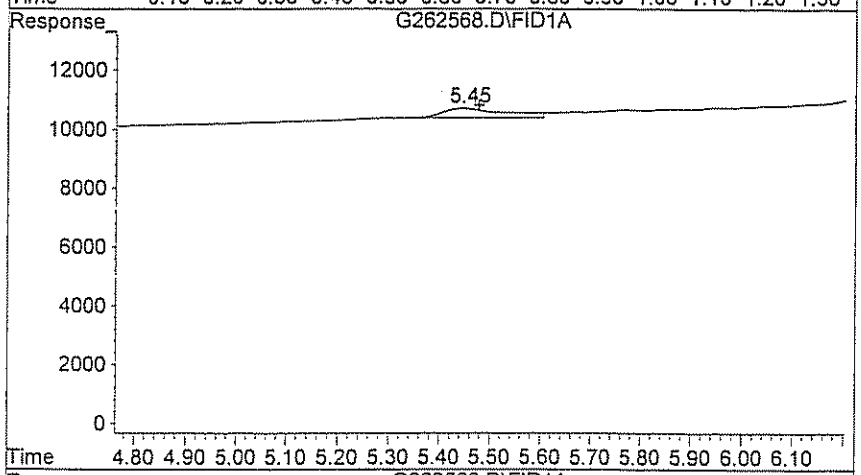
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





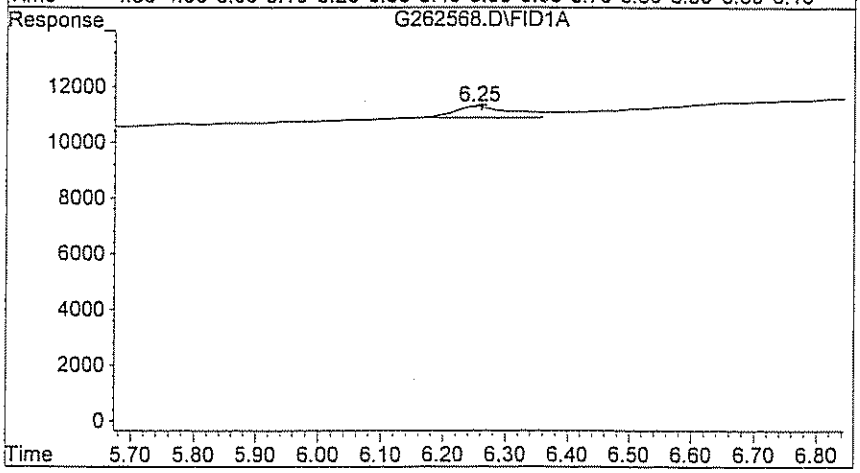
#1 Methane

R.T.: 0.607 min
Delta R.T.: -0.023 min
Response: 1149
Conc: 6.86 ppb m



#2 Ethane

R.T.: 5.447 min
Delta R.T.: -0.030 min
Response: 325
Conc: 12.86 ppb m



#3 Ethylene

R.T.: 6.247 min
Delta R.T.: -0.013 min
Response: 402
Conc: 12.65 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262569.D Vial: 3
Acq On : 20 Mar 2009 9:44 Operator: TG
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:32 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.62	2053	12.159	ppb	m
2)	T	Ethane	5.51	599	23.476	ppb	m
3)	T	Ethylene	6.29	674	20.592	ppb	m

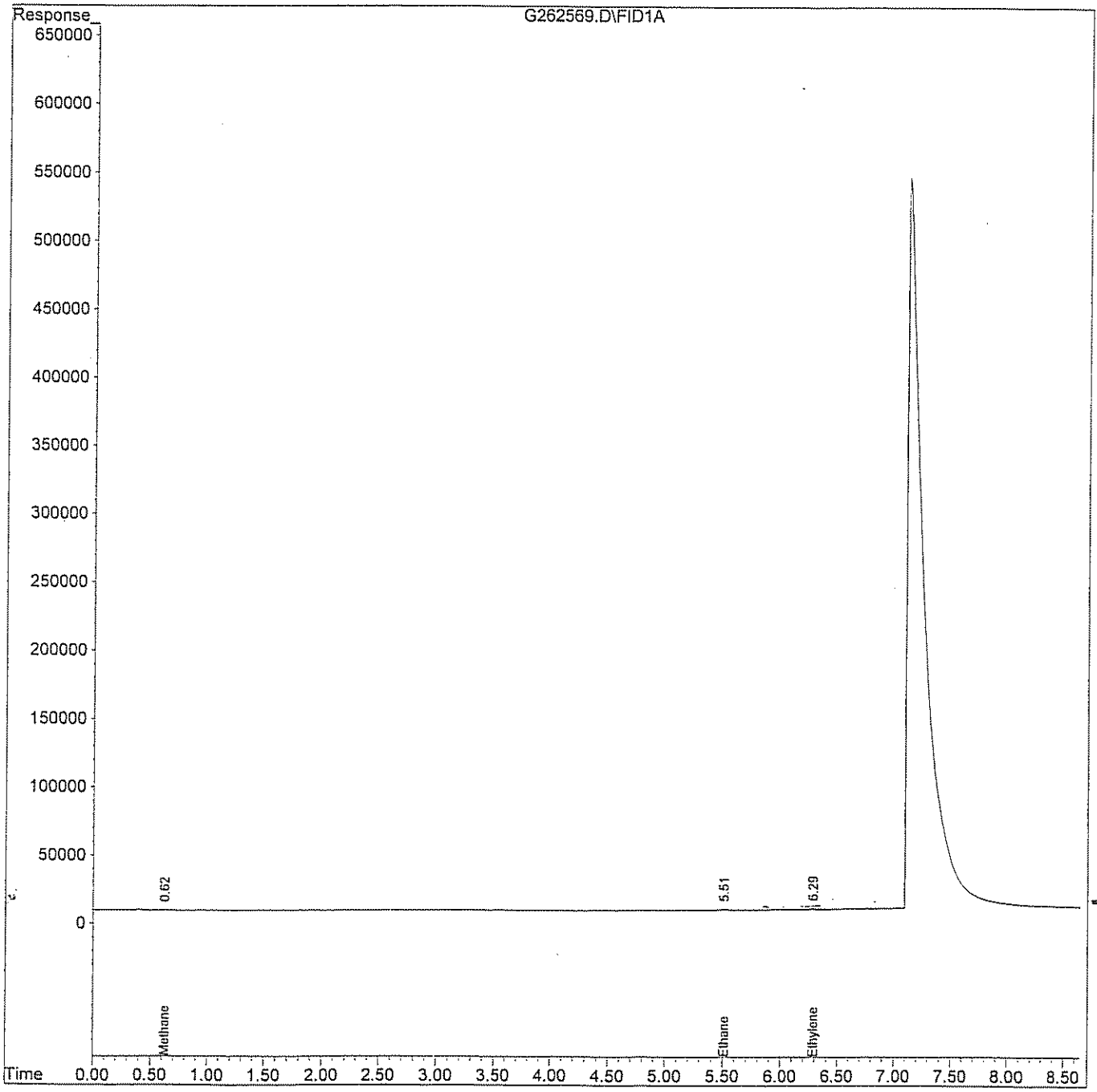
(f)=RT Delta > 1/2 Window (m)=manual int.

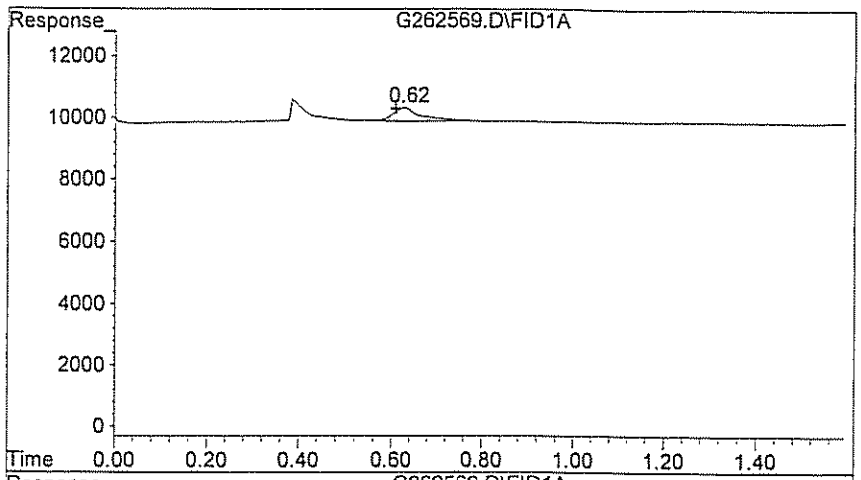
Quantitation Report

Data File : H:\GCDATA\G\032009\G262569.D Vial: 3
Acq On : 20 Mar 2009 9:44 Operator: TG
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:32 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

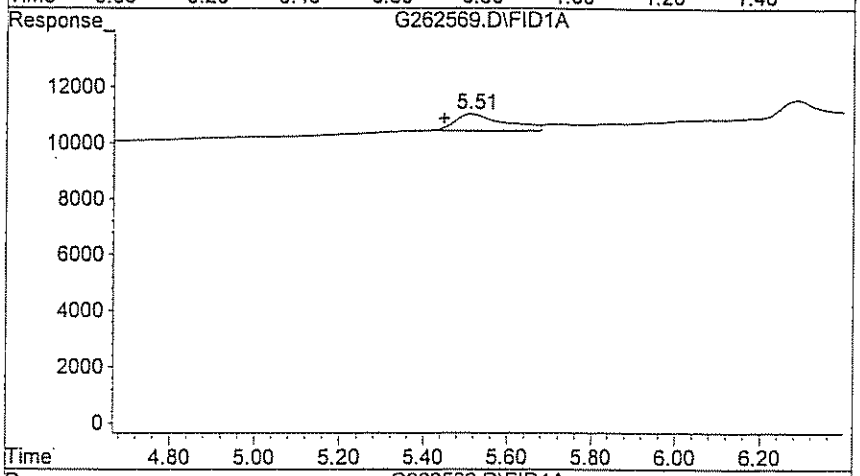
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





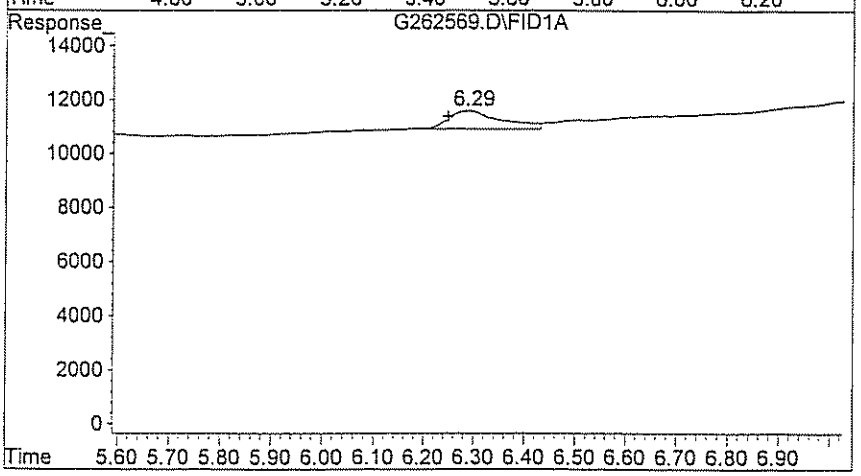
#1 Methane

R.T.: 0.623 min
Delta R.T.: 0.017 min
Response: 2053
Conc: 12.16 ppb m



#2 Ethane

R.T.: 5.510 min
Delta R.T.: 0.063 min
Response: 599
Conc: 23.48 ppb m



#3 Ethylene

R.T.: 6.287 min
Delta R.T.: 0.040 min
Response: 674
Conc: 20.59 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032009\G262571.D Vial: 5
Acq On : 20 Mar 2009 10:13 Operator: TG
Sample : CAL010 Inst : GC-G
Misc : CAL010 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	4022	24.343	ppb	m
2) T	Ethane	5.52	1121	44.572	ppb	
3) T	Ethylene	6.29	1253	39.427	ppb	

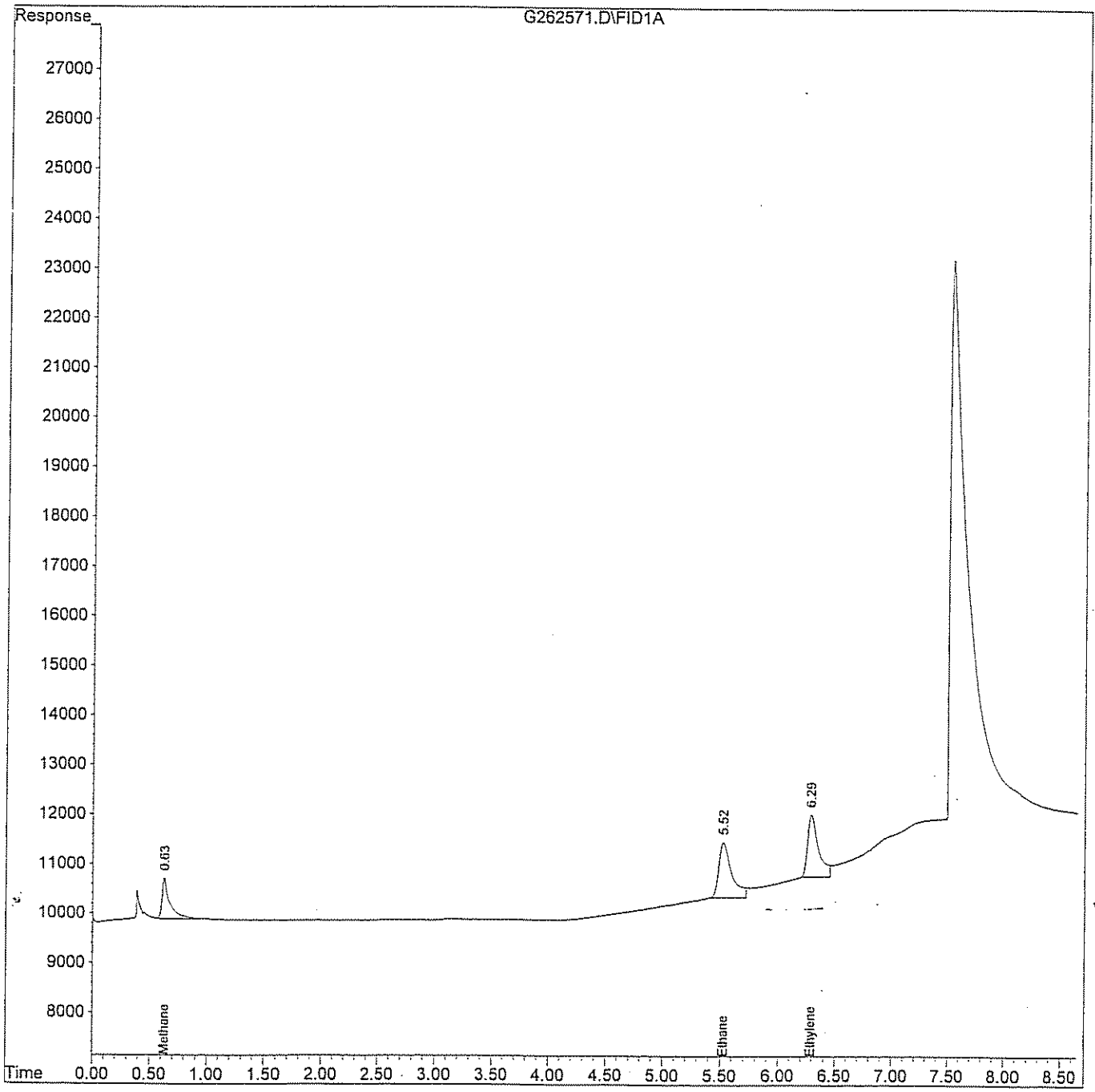
(f)=RT Delta > 1/2 Window (m)=manual Int.

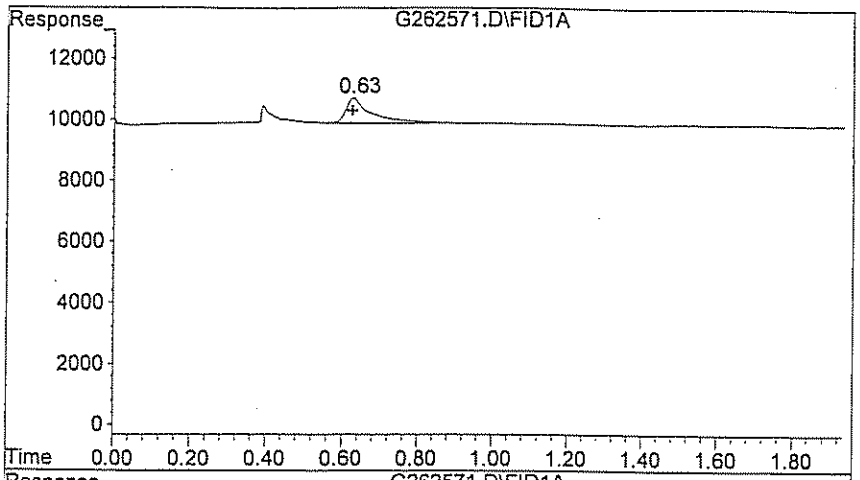
Quantitation Report

Data File : H:\GCDATA\G\032009\G262571.D Vial: 5
Acq On : 20 Mar 2009 10:13 Operator: TG
Sample : CAL010 Inst : GC-G
Misc : CAL010 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 20 10:35 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

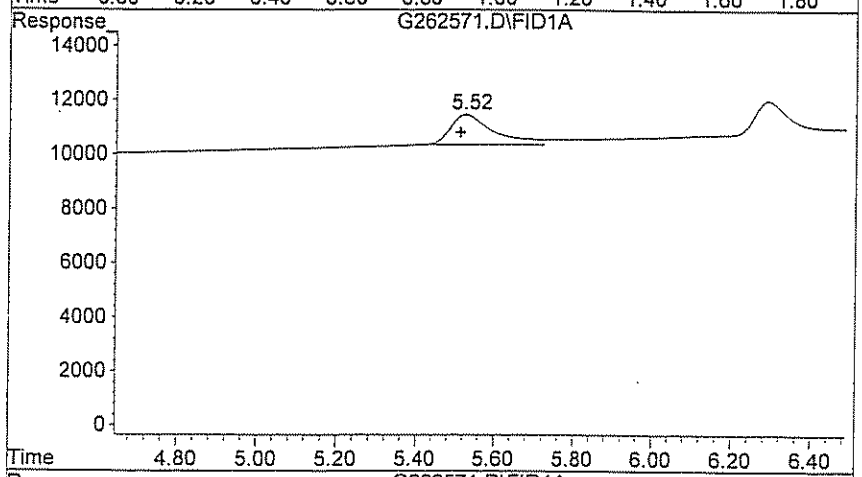
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





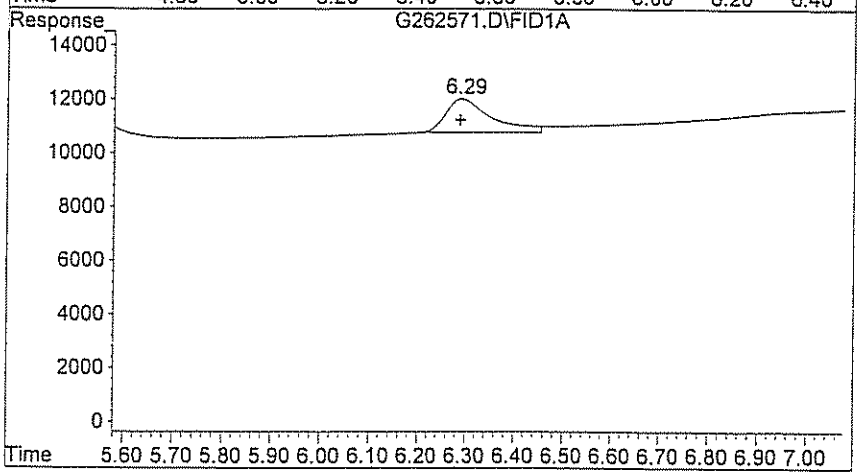
#1 Methane

R.T.:	0.627 min
Delta R.T.:	0.003 min
Response:	4022
Conc:	24.34 ppb m



#2 Ethane

R.T.:	5.523 min
Delta R.T.:	0.013 min
Response:	1121
Conc:	44.57 ppb



#3 Ethylene

R.T.:	6.287 min
Delta R.T.:	0.000 min
Response:	1253
Conc:	39.43 ppb

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009

Calibration Files
1 =G262685.D 2 =G262686.D 10 =G262689.D
5 =G262688.D 4 =G262687.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	2.216	1.903	1.541	1.696	1.981	1.867 E2	13.96
2)	T	Ethane	3.958	3.168	2.474	2.769	2.815	3.037 E1	18.80
3)	T	Ethylene	4.914	3.707	2.995	3.715	3.755	3.817 E1	18.08

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262685.D Vial: 1
Acq On : 27 Mar 2009 9:44 Operator: NK
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:17 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	738	4.352	ppb	m
2) T	Ethane	5.54	247	8.919	ppb	m
3) T	Ethylene	6.33	286	7.699	ppb	

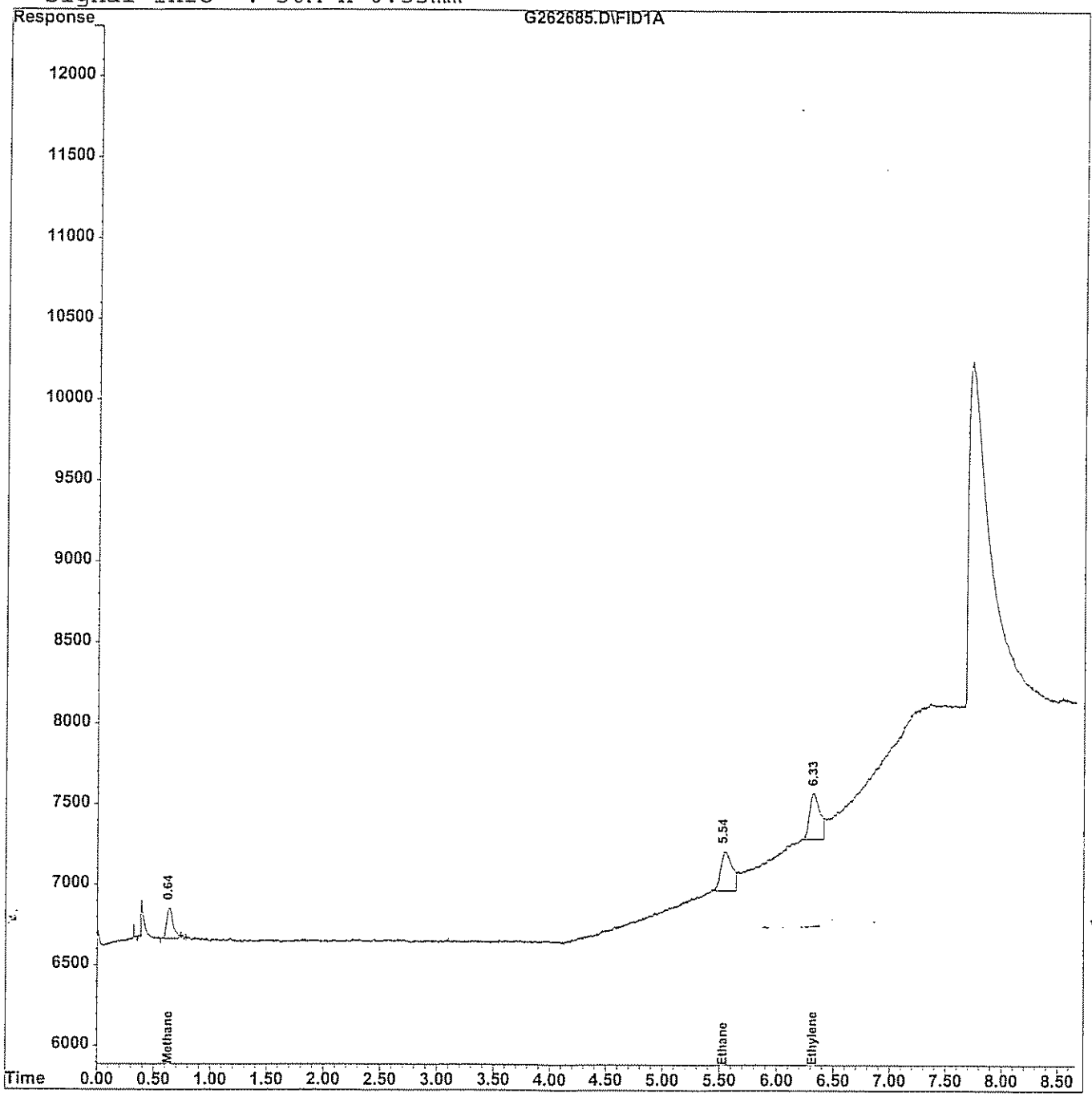
(f)=RT Delta > 1/2 Window (m)=manu

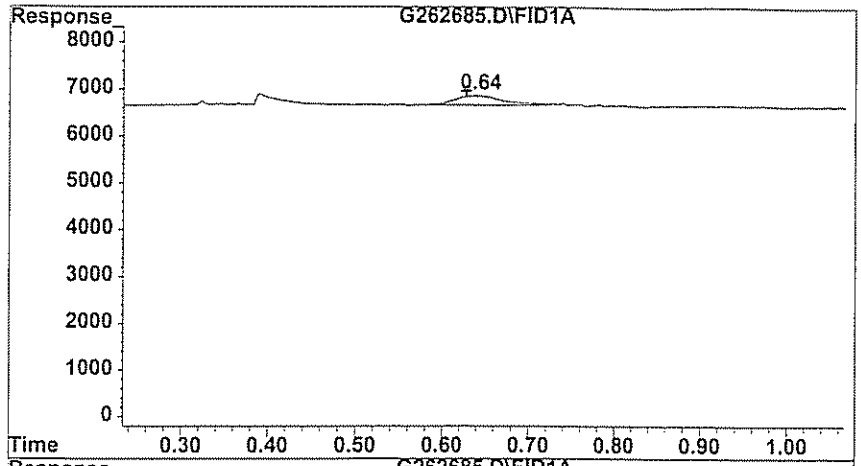
Quantitation Report

Data File : H:\GCDATA\G\032709\G262685.D Vial: 1
Acq On : 27 Mar 2009 9:44 Operator: NK
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:17 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

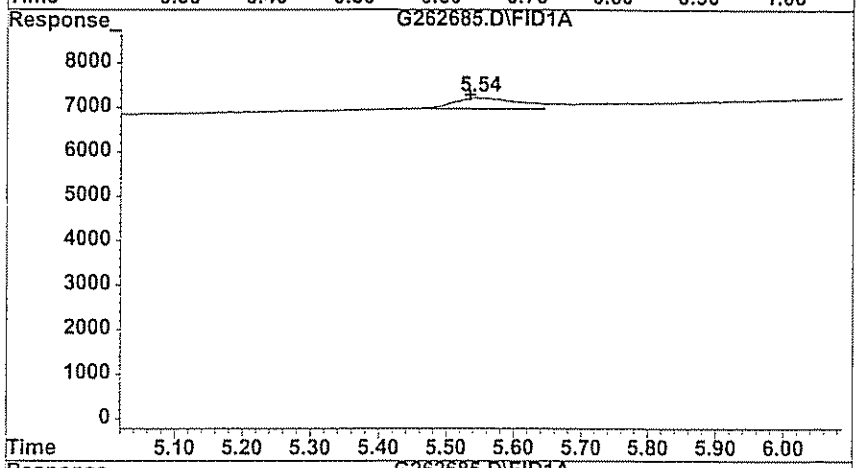
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





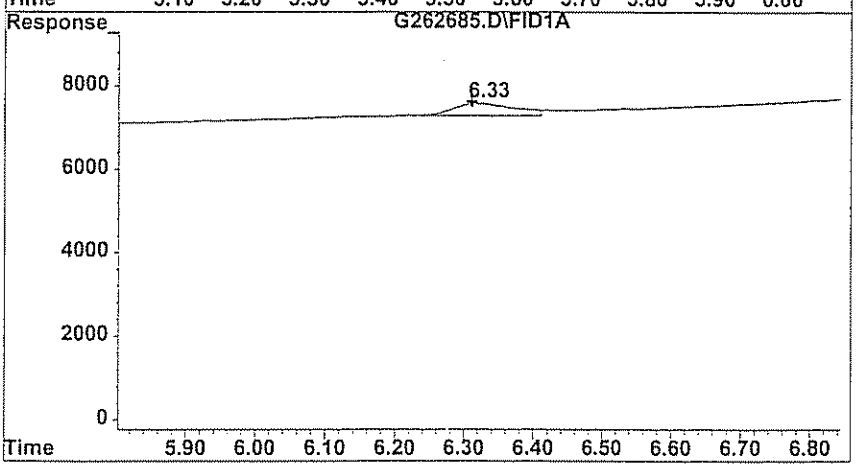
#1 Methane

R.T.:	0.637 min
Delta R.T.:	0.010 min
Response:	738
Conc:	4.35 ppb m



#2 Ethane

R.T.:	5.540 min
Delta R.T.:	0.007 min
Response:	247
Conc:	8.92 ppb m



#3 Ethylene

R.T.:	6.327 min
Delta R.T.:	0.017 min
Response:	286
Conc:	7.70 ppb

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262686.D Vial: 2
Acq On : 27 Mar 2009 10:04 Operator: NK
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:19 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.60	1275	6.518	ppb
2) T	Ethane	5.36	396	11.772	ppb
3) T	Ethylene	6.21	430	9.967	ppb

(f)=RT Delta > 1/2 Window (m)=manual int

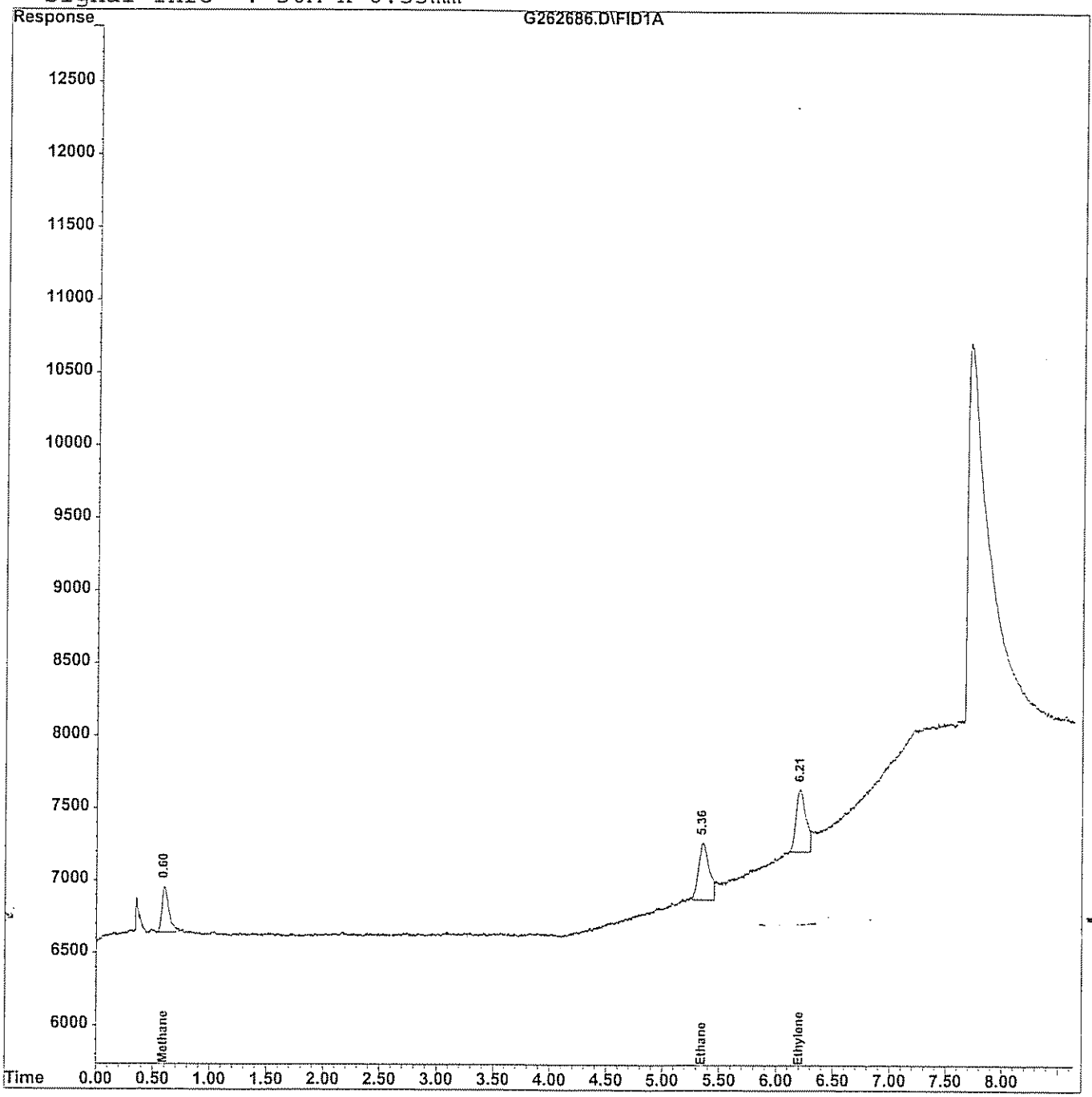
Quantitation Report

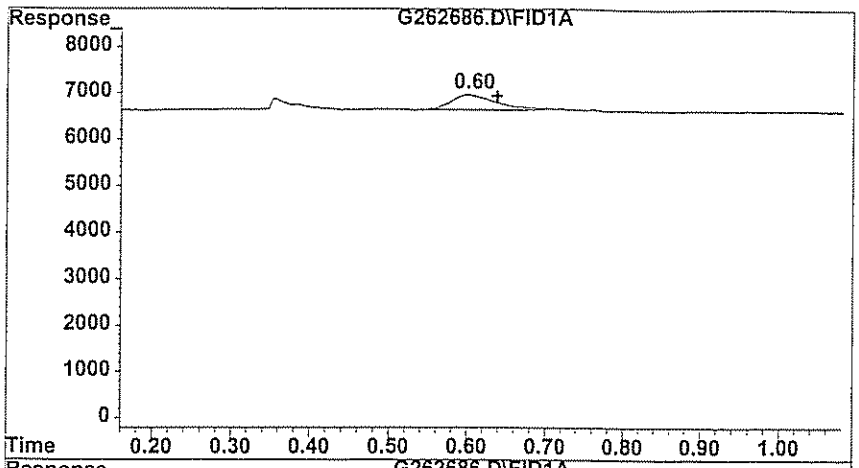
Data File : H:\GCDATA\G\032709\G262686.D
Acq On : 27 Mar 2009 10:04
Sample : CAL02
Misc : CAL02
IntFile : rteint.p
Quant Time: Mar 27 11:19 2009 Quant Results File: RSK0327.RES

Vial: 2
Operator: NK
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

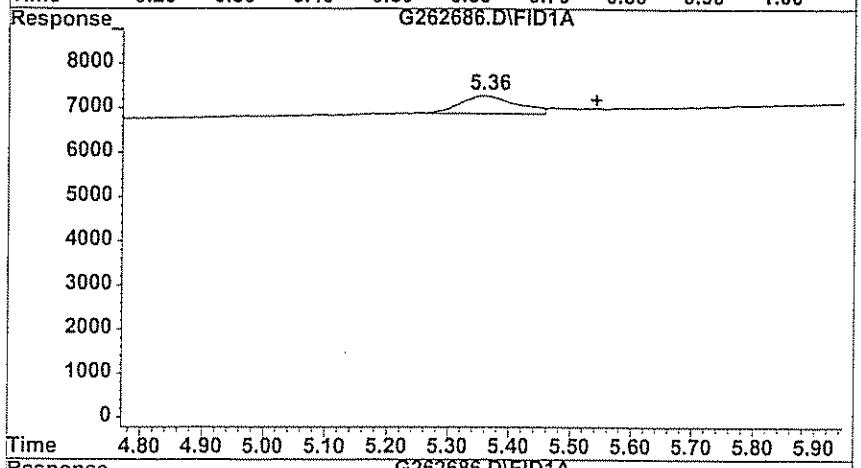
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





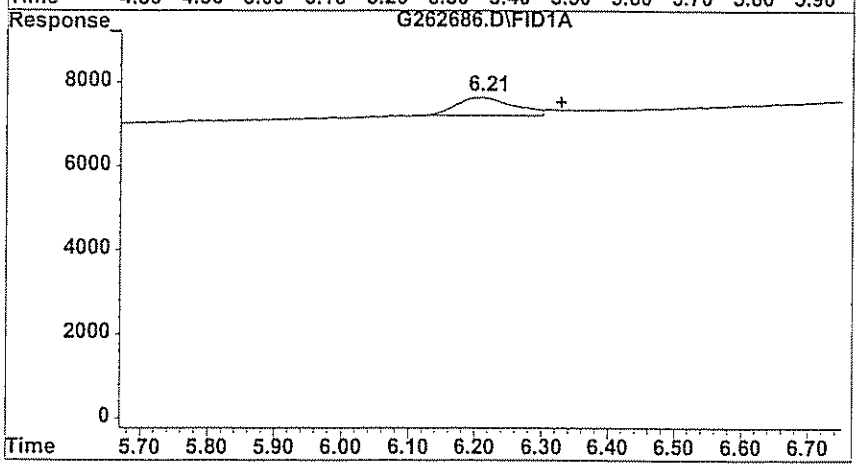
#1 Methane

R.T.:	0.600 min
Delta R.T.:	-0.037 min
Response:	1275
Conc:	6.52 ppb



#2 Ethane

R.T.:	5.357 min
Delta R.T.:	-0.183 min
Response:	396
Conc:	11.77 ppb



#3 Ethylene

R.T.:	6.210 min
Delta R.T.:	-0.117 min
Response:	430
Conc:	9.97 ppb

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262687.D Vial: 3
Acq On : 27 Mar 2009 10:24 Operator: NK
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:20 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) T	Methane	0.61	2635	13.594 ppb
2) T	Ethane	5.53	701	21.252 ppb
3) T	Ethylene	6.31	875	21.280 ppb

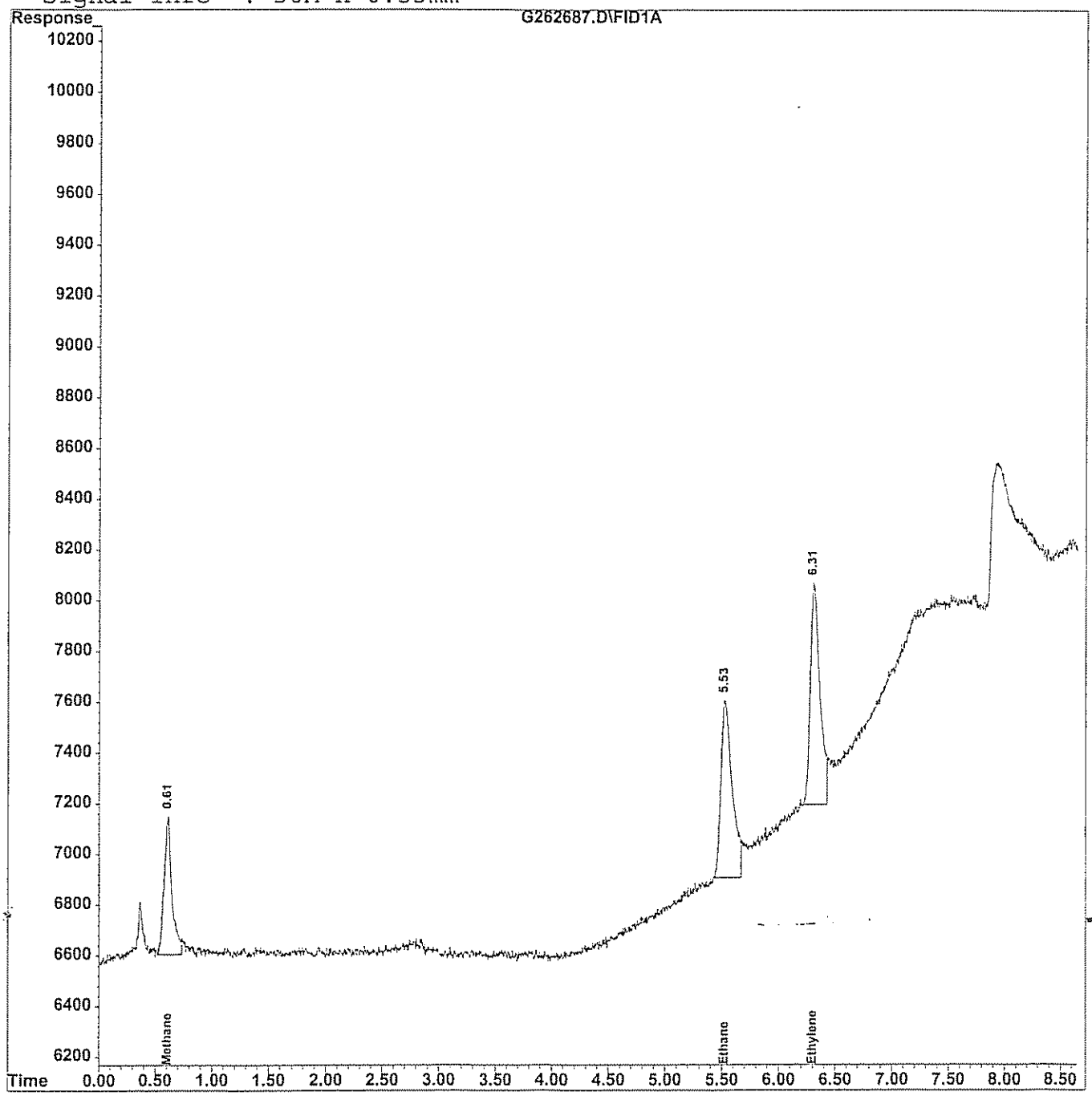
(f)=RT Delta > 1/2 Window (m)=manual int

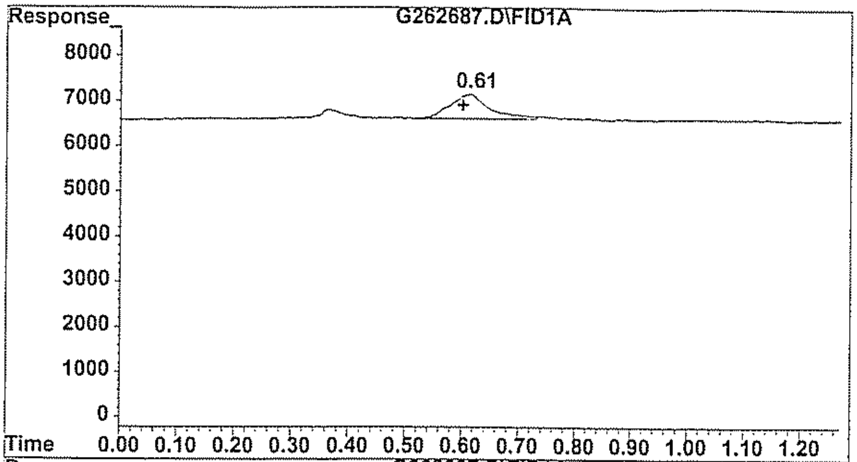
Quantitation Report

Data File : H:\GCDATA\G\032709\G262687.D Vial: 3
Acq On : 27 Mar 2009 10:24 Operator: NK
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:20 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

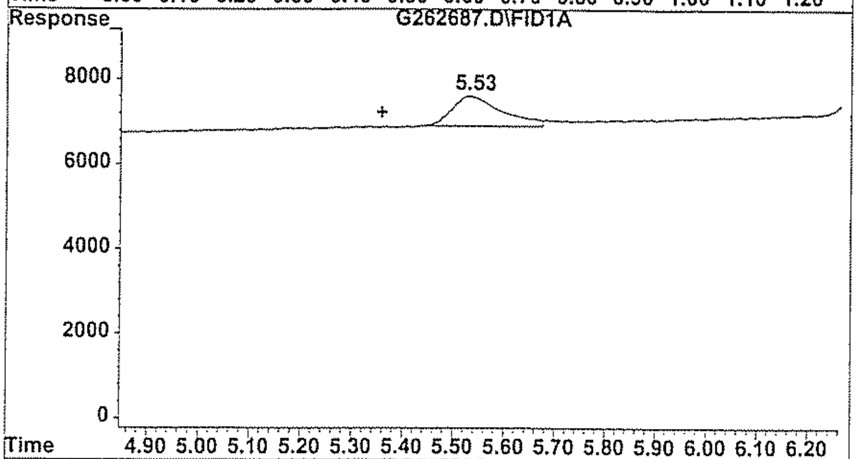
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





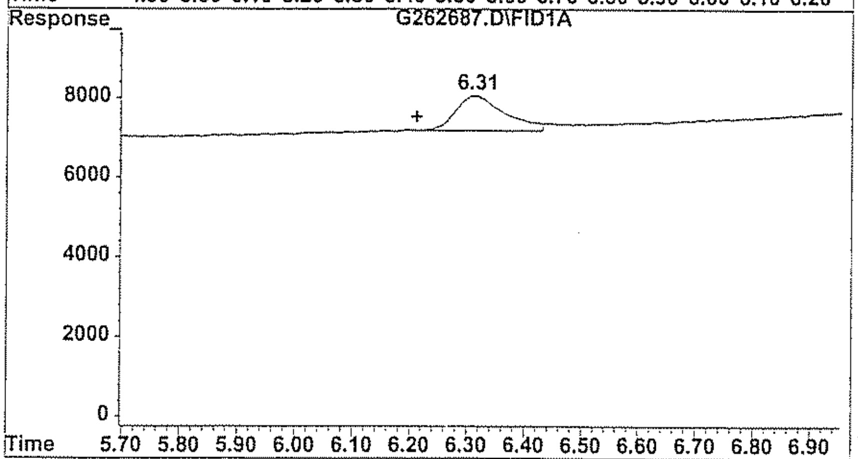
#1 Methane

R.T.: 0.613 min
Delta R.T.: 0.013 min
Response: 2635
Conc: 13.59 ppb



#2 Ethane

R.T.: 5.530 min
Delta R.T.: 0.173 min
Response: 701
Conc: 21.25 ppb



#3 Ethylene

R.T.: 6.307 min
Delta R.T.: 0.097 min
Response: 875
Conc: 21.28 ppb

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262688.D
Acq On : 27 Mar 2009 10:41
Sample : CAL05
Misc : CAL05
IntFile : rteint.p
Quant Time: Mar 27 11:15 2009 Quant Results File: RSK0327.RES

Vial: 4
Operator: NK
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	2860	16.865	ppb	m
2) T	Ethane	5.53	864	31.200	ppb	m
3) T	Ethylene	6.31	1079	29.046	ppb	m

(f)=RT Delta > 1/2 Window
(m)=manual int.

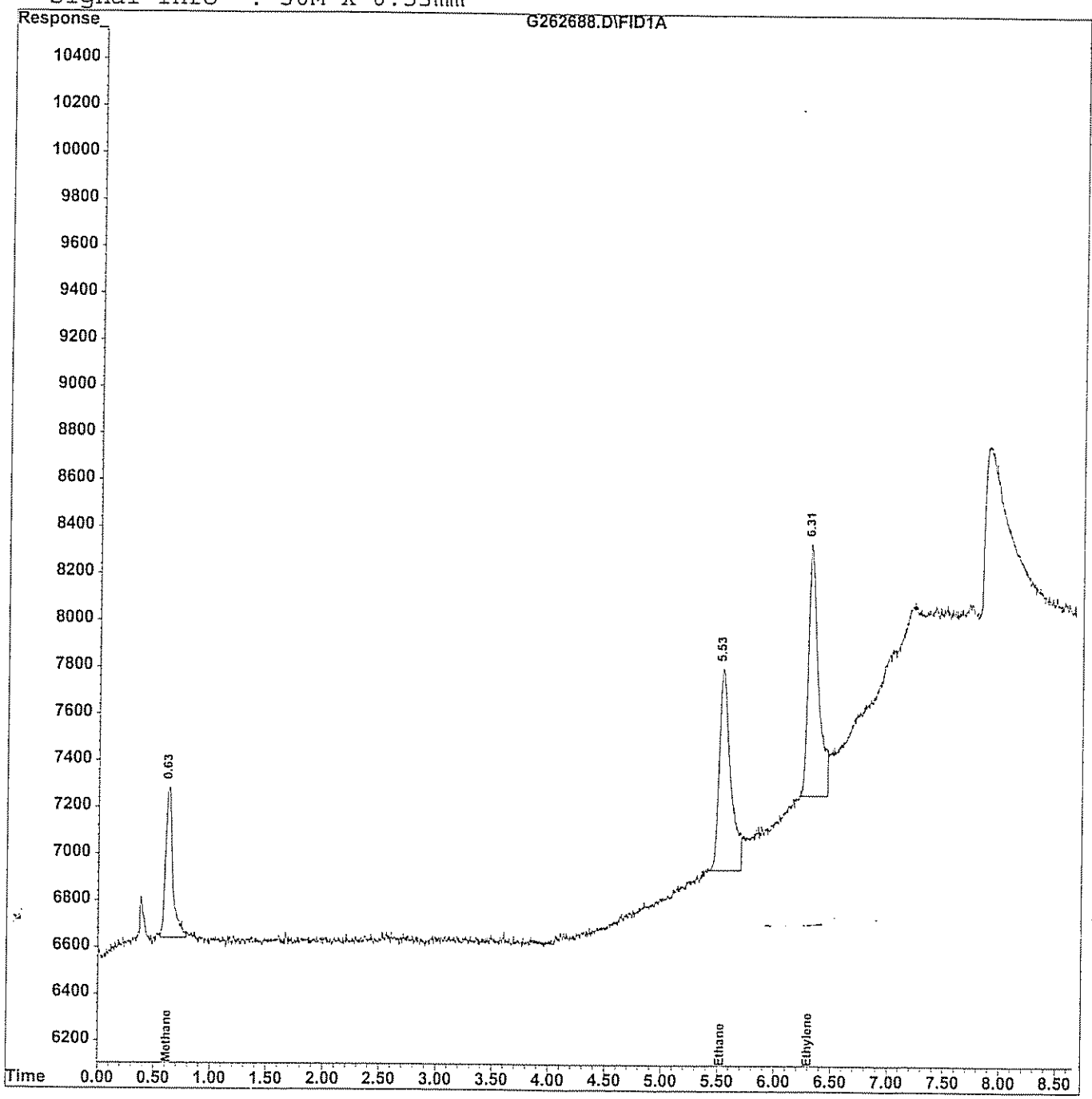
Quantitation Report

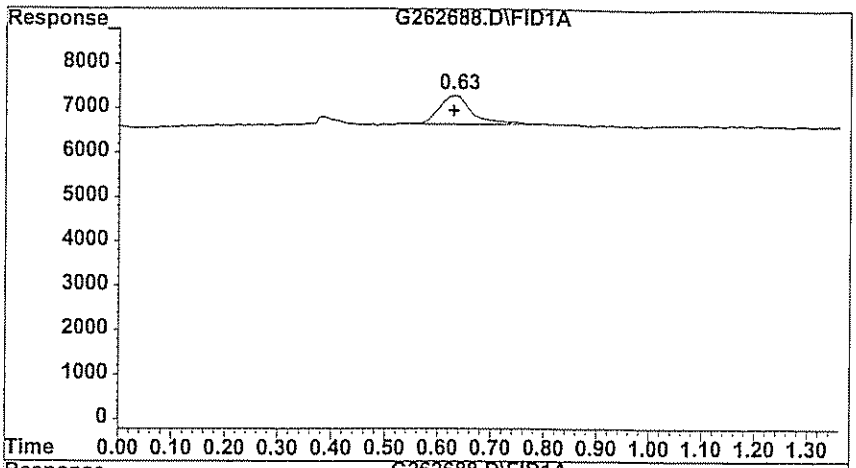
Data File : H:\GCDATA\G\032709\G262688.D
Acq On : 27 Mar 2009 10:41
Sample : CAL05
Misc : CAL05
IntFile : rteint.p
Quant Time: Mar 27 11:15 2009 Quant Results File: RSK0327.RES

Vial: 4
Operator: NK
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

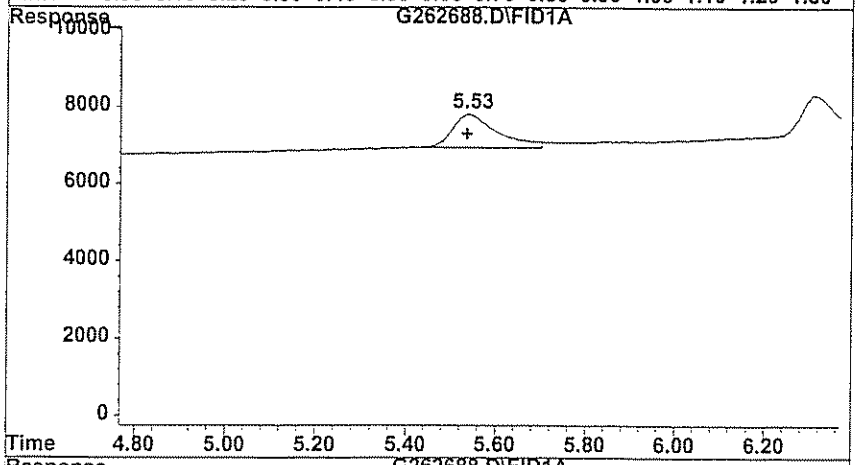
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





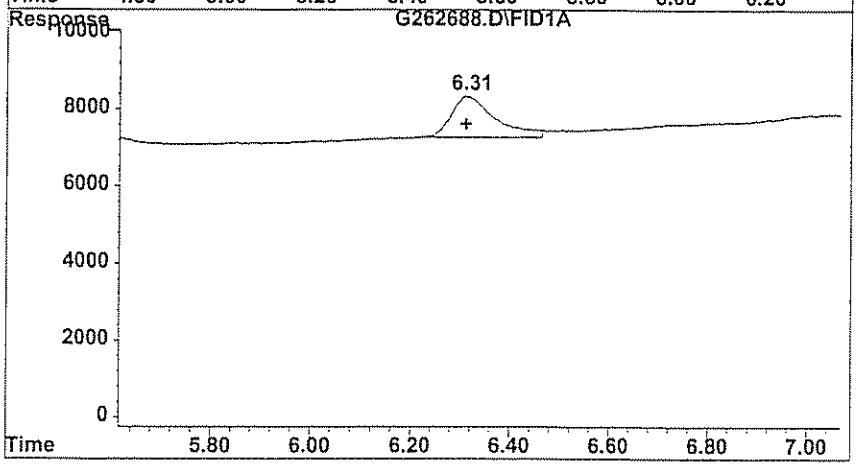
#1 Methane

R.T.: 0.627 min
Delta R.T.: 0.000 min
Response: 2860
Conc: 16.87 ppb m



#2 Ethane

R.T.: 5.533 min
Delta R.T.: 0.000 min
Response: 864
Conc: 31.20 ppb m



#3 Ethylene

R.T.: 6.310 min
Delta R.T.: 0.000 min
Response: 1079
Conc: 29.05 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262689.D Vial: 5
Acq On : 27 Mar 2009 10:59 Operator: NK
Sample : CAL10 Inst : GC-G
Misc : CAL10 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:21 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) T	Methane	0.62	5131	26.326 ppb
2) T	Ethane	5.53	1544	48.589 ppb
3) T	Ethylene	6.31	1743	43.328 ppb

(f)=RT Delta > 1/2 Window (m)=manual

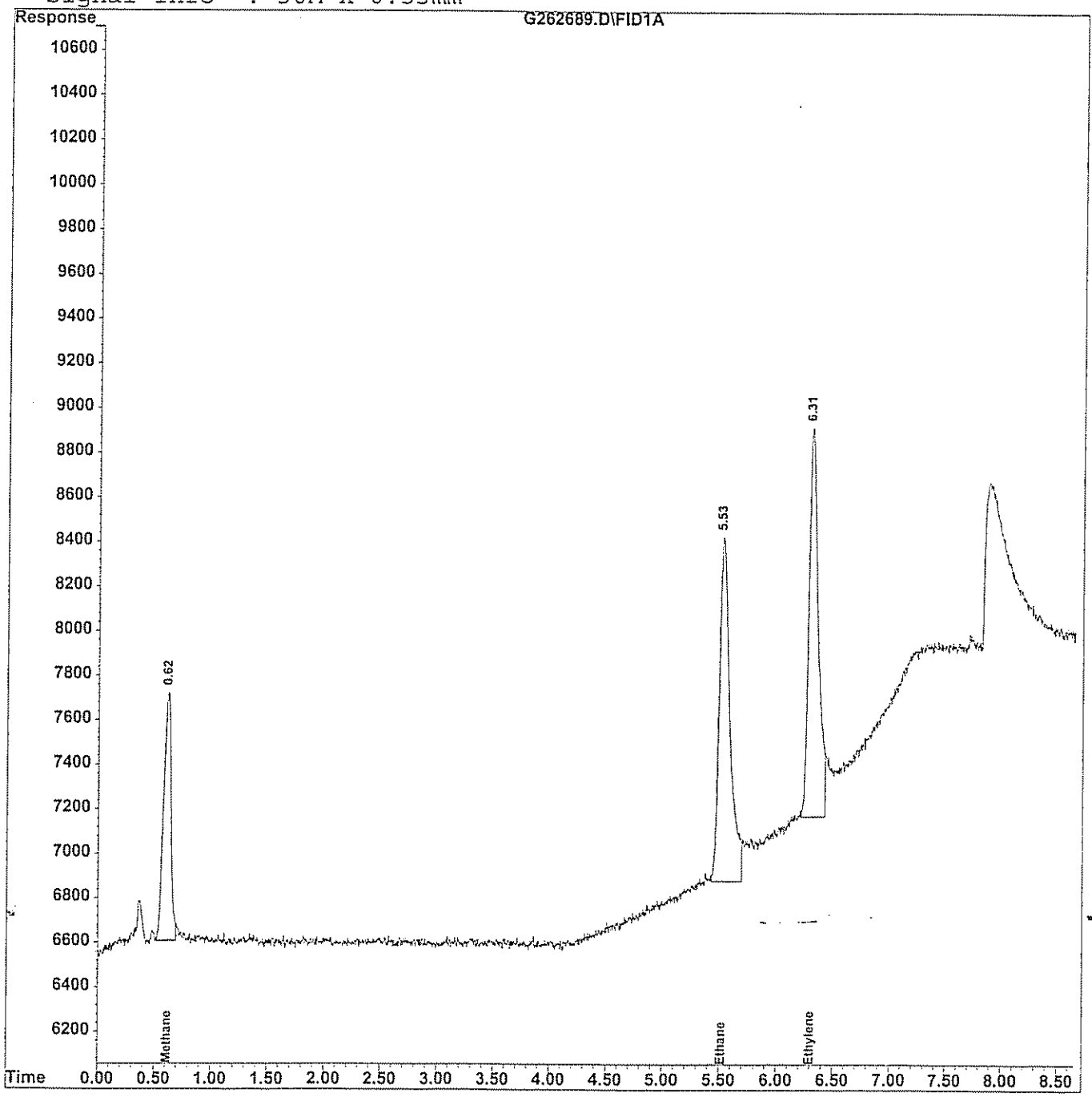
Quantitation Report

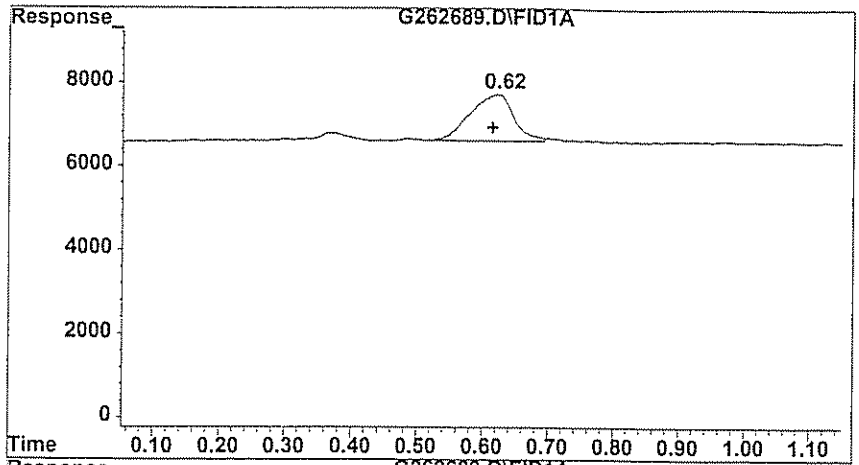
Data File : H:\GCDATA\G\032709\G262689.D
Acq On : 27 Mar 2009 10:59
Sample : CAL10
Misc : CAL10
IntFile : rteint.p
Quant Time: Mar 27 11:21 2009 Quant Results File: RSK0327.RES

Vial: 5
Operator: NK
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

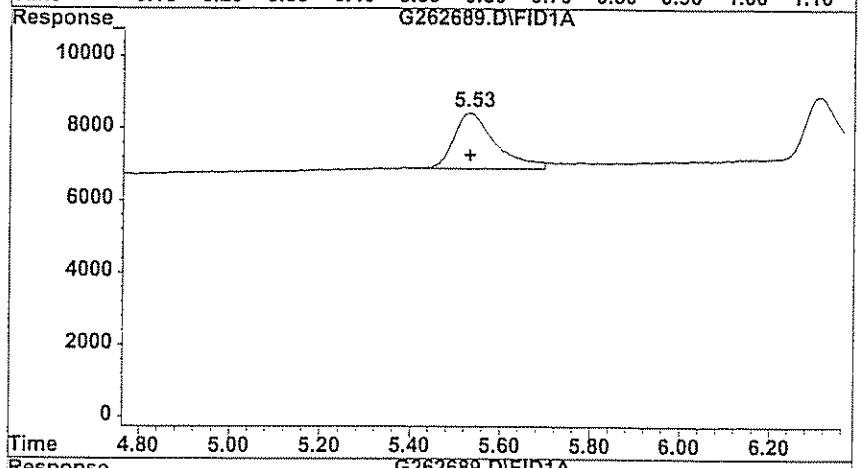
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





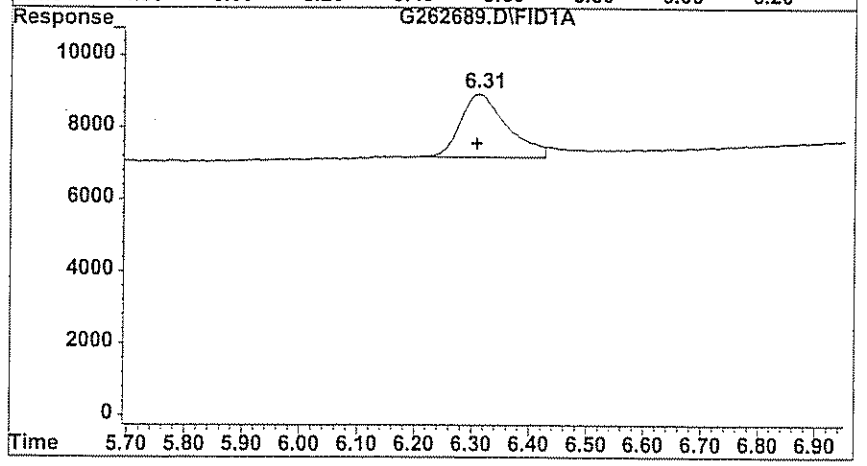
#1 Methane

R.T.:	0.623 min
Delta R.T.:	0.010 min
Response:	5131
Conc:	26.33 ppb



#2 Ethane

R.T.:	5.527 min
Delta R.T.:	-0.003 min
Response:	1544
Conc:	48.59 ppb



#3 Ethylene

R.T.:	6.310 min
Delta R.T.:	0.003 min
Response:	1743
Conc:	43.33 ppb

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032509\G262654.D
Acq On : 25 Mar 2009 7:20
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 37
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	151.446	3.1	101	0.03
2	T	Ethane	23.713	23.077	2.7	110	0.02
3	T	Ethylene	29.730	27.663	7.0	100	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262654.D Vial: 37
Acq On : 25 Mar 2009 7:20 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 7:31 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2514	16.081	ppb	m
2) T	Ethane	5.55	720	30.363	ppb	m
3) T	Ethylene	6.32	805	27.077	ppb	m

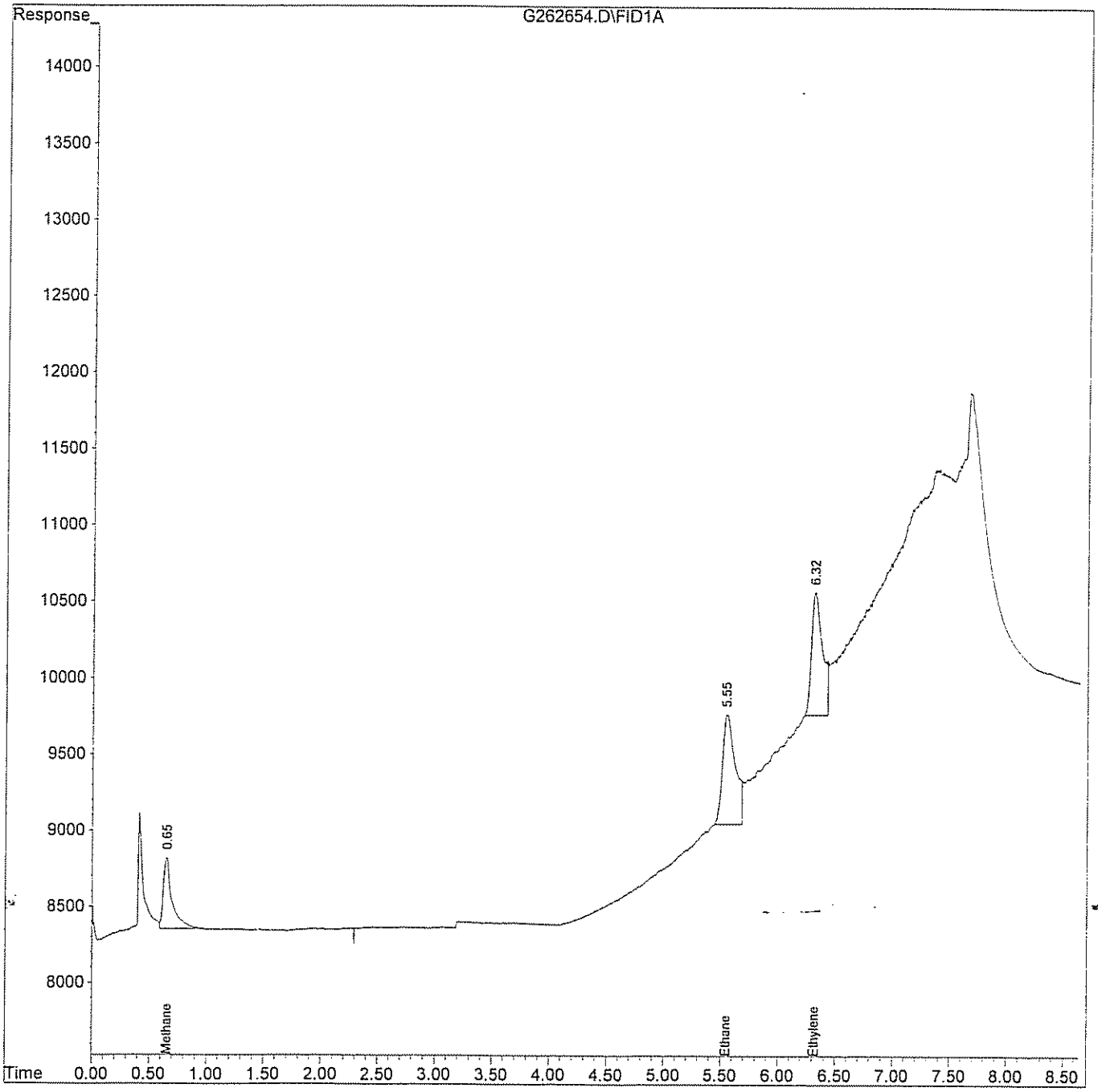
(f)=RT Delta > 1/2 Window (m)=manual int.

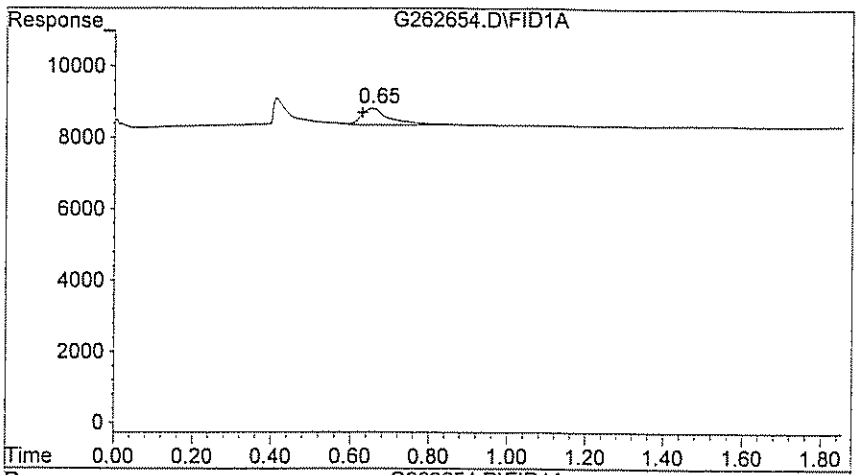
Quantitation Report

Data File : H:\GCDATA\G\032509\G262654.D Vial: 37
Acq On : 25 Mar 2009 7:20 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 7:31 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

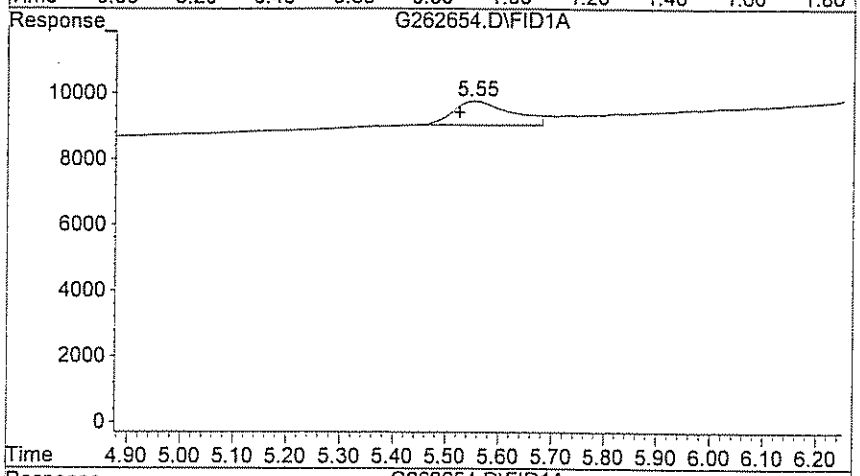
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





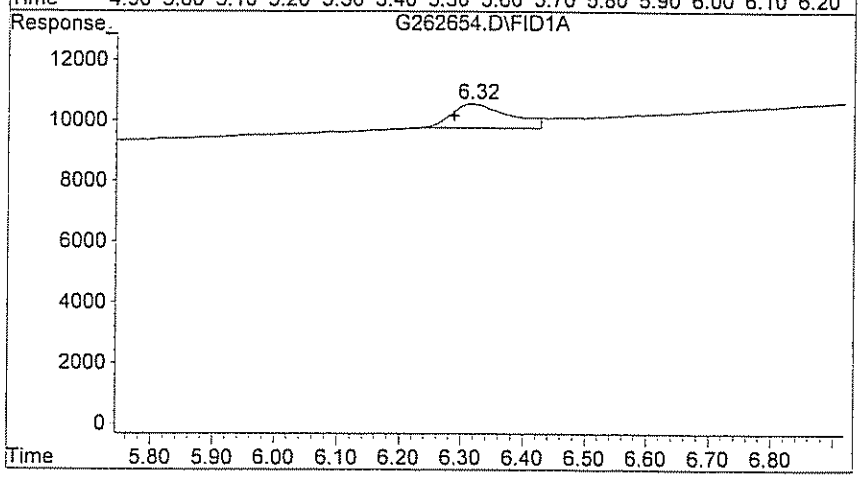
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.027 min
Response: 2514
Conc: 16.08 ppb m



#2 Ethane

R.T.: 5.547 min
Delta R.T.: 0.023 min
Response: 720
Conc: 30.36 ppb m



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.030 min
Response: 805
Conc: 27.08 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032509\G262665.D Vial: 7
Acq On : 25 Mar 2009 13:47 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	155.663	0.4	103	0.03
2	T	Ethane	23.713	21.731	8.4	104	0.03
3	T	Ethylene	29.730	25.636	13.8	93	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262665.D Vial: 7
Acq On : 25 Mar 2009 13:47 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 13:56 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2584	16.528	ppb	m
2) T	Ethane	5.55	678	28.592	ppb	m
3) T	Ethylene	6.32	746	25.092	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

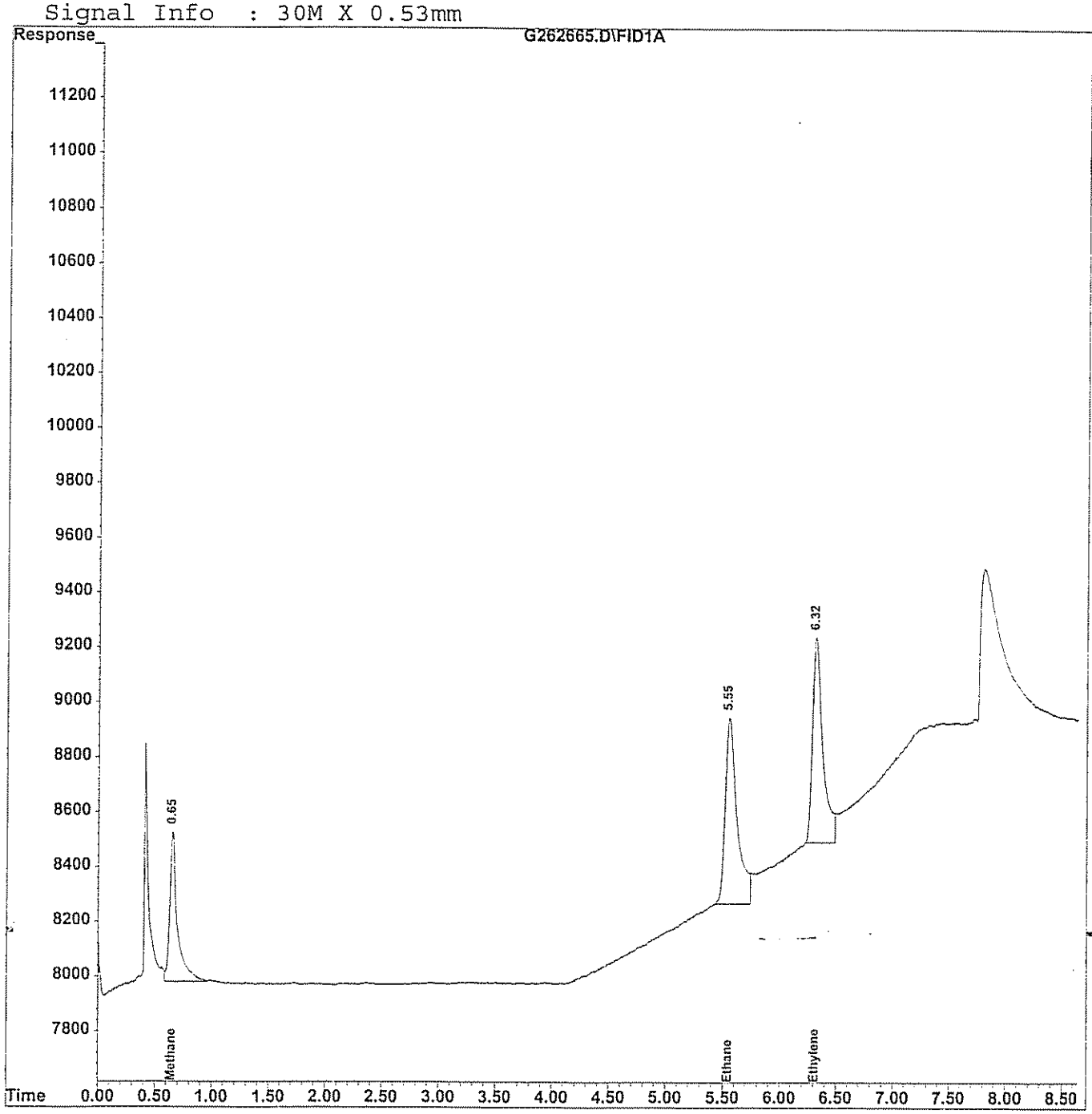
Quantitation Report

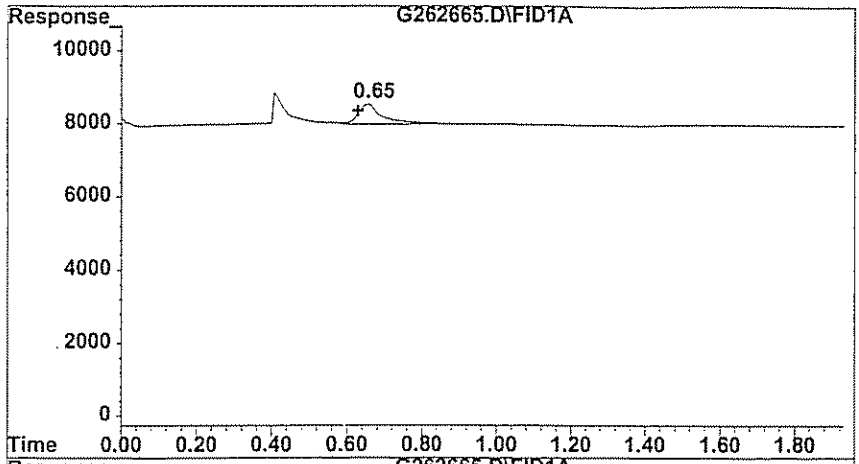
Data File : H:\GCDATA\G\032509\G262665.D
Acq On : 25 Mar 2009 13:47
Sample : CCV
Misc : CCV
IntFile : rteint.p
Quant Time: Mar 25 13:56 2009 Quant Results File: RSK0320.RES

Vial: 7
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

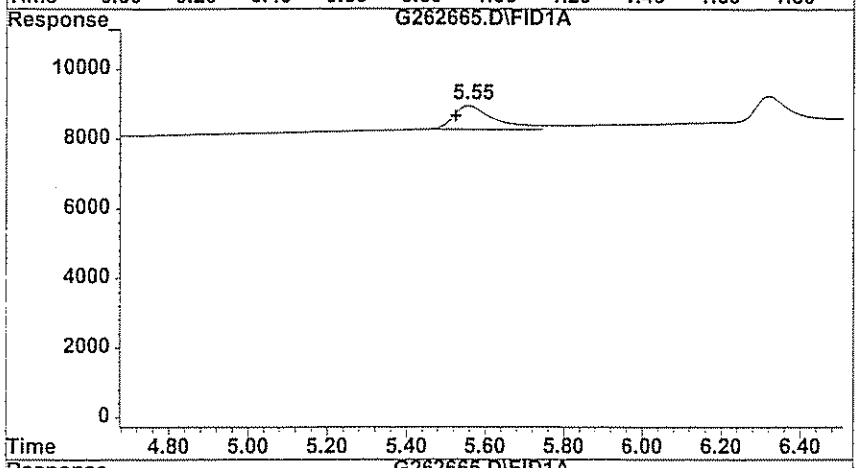
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





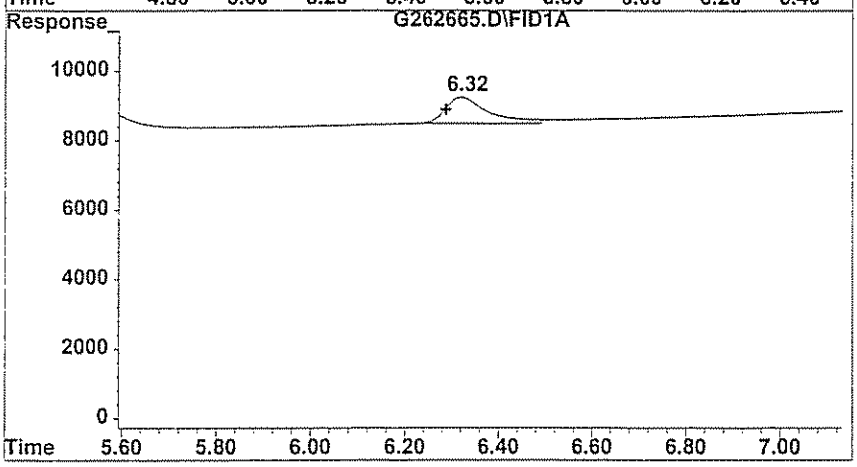
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.027 min
Response: 2584
Conc: 16.53 ppb m



#2 Ethane

R.T.: 5.553 min
Delta R.T.: 0.030 min
Response: 678
Conc: 28.59 ppb m



#3 Ethylene

R.T.: 6.320 min
Delta R.T.: 0.033 min
Response: 746
Conc: 25.09 ppb

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032509\G262674.D
Acq On : 25 Mar 2009 17:28
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 16
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	143.434	8.3	95	0.03
2	T	Ethane	23.713	20.513	13.5	98	-0.03
3	T	Ethylene	29.730	23.849	19.8	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262674.D Vial: 16
Acq On : 25 Mar 2009 17:28 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 17:39 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2381	15.230	ppb	m
2) T	Ethane	5.49	640	26.989	ppb	m
3) T	Ethylene	6.29	694	23.343	ppb	m

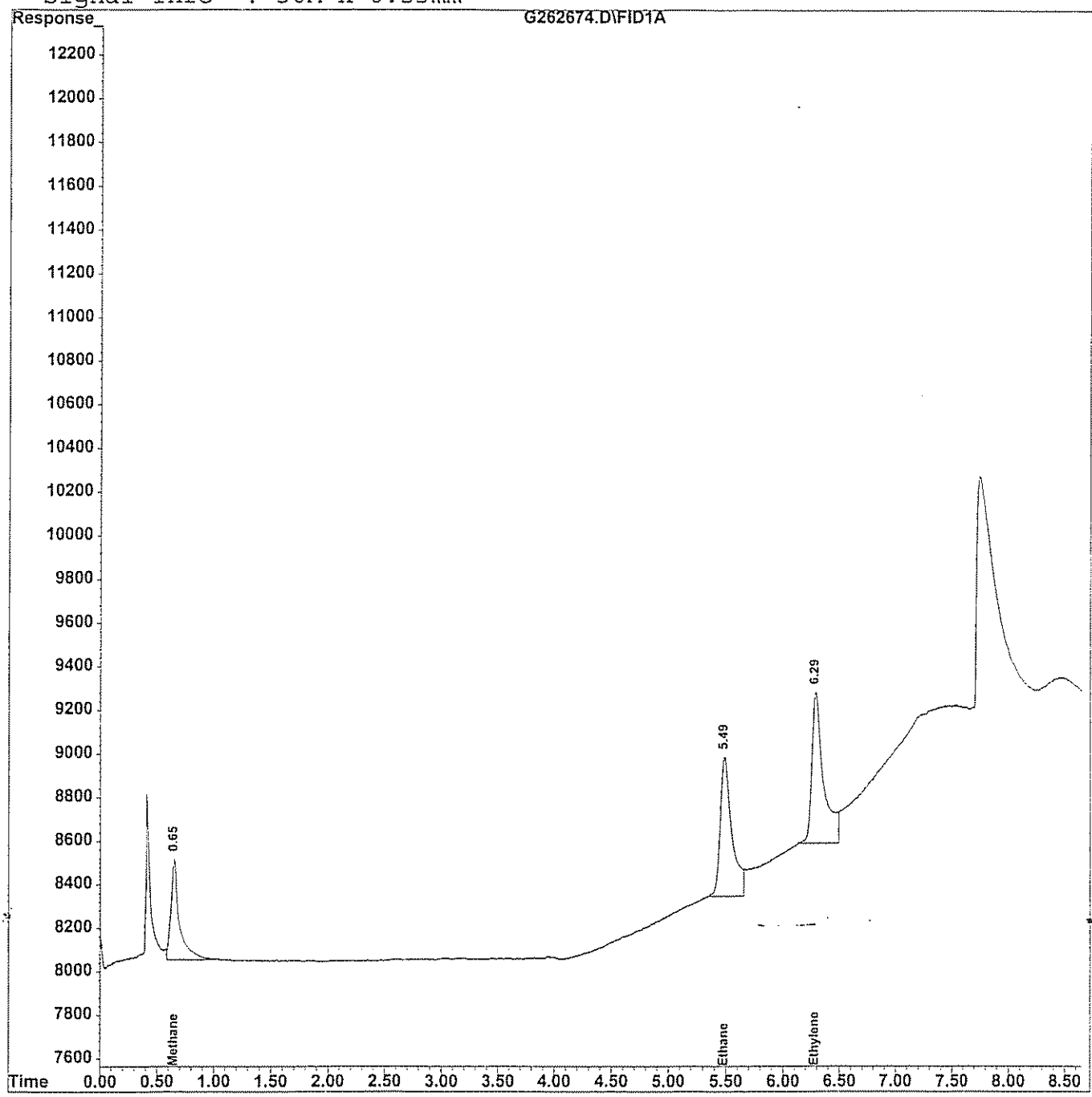
(f)=RT Delta > 1/2 Window (m)=manual int.

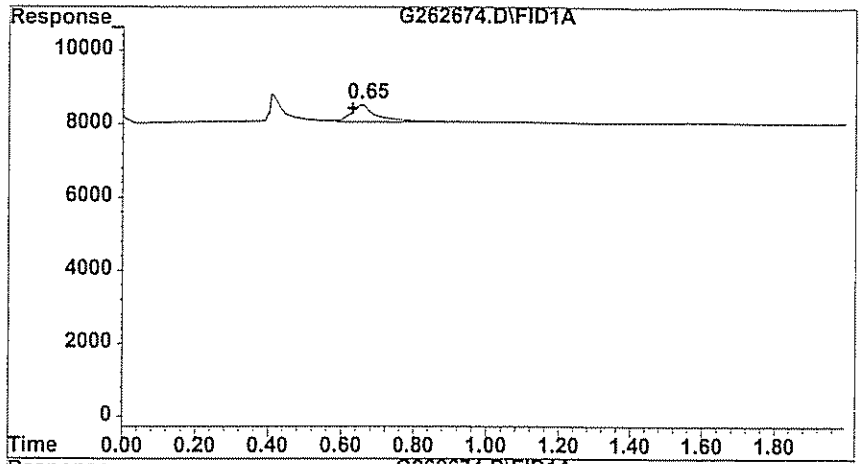
Quantitation Report

Data File : H:\GCDATA\G\032509\G262674.D Vial: 16
Acq On : 25 Mar 2009 17:28 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 17:39 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

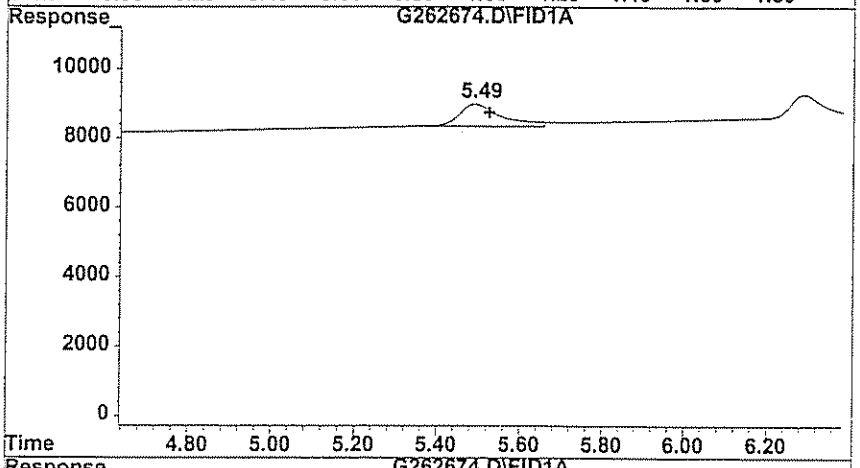
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





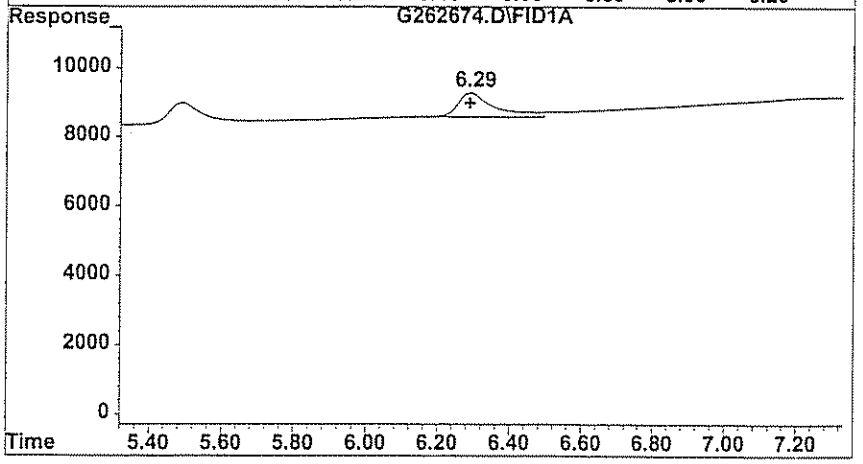
#1 Methane

R.T.:	0.653 min
Delta R.T.:	0.027 min
Response:	2381
Conc:	15.23 ppb m



#2 Ethane

R.T.:	5.490 min
Delta R.T.:	-0.033 min
Response:	640
Conc:	26.99 ppb m



#3 Ethylene

R.T.:	6.287 min
Delta R.T.:	0.000 min
Response:	694
Conc:	23.34 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032509\G262682.D Vial: 24
Acq On : 25 Mar 2009 19:34 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:36:35 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	156.336	145.663	6.8	97	0.03
2	T	Ethane	23.713	21.506	9.3	103	0.04
3	T	Ethylene	29.730	24.983	16.0	90	0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262682.D Vial: 24
Acq On : 25 Mar 2009 19:34 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 19:44 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.66	2418	15.467	ppb	m
2) T	Ethane	5.56	671	28.297	ppb	
3) T	Ethylene	6.32	727	24.453	ppb	m

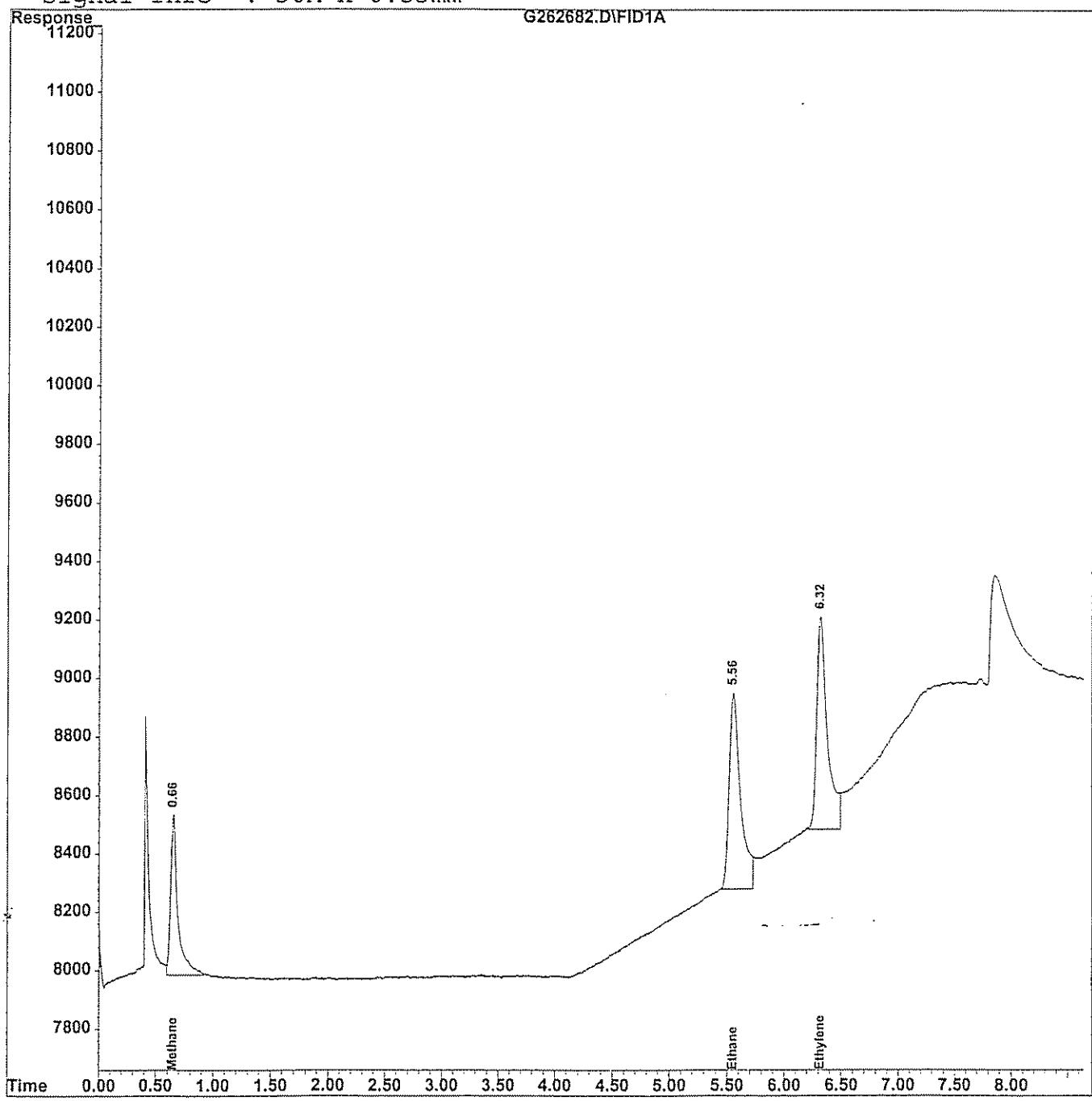
(f)=RT Delta > 1/2 Window (m)=manual int.

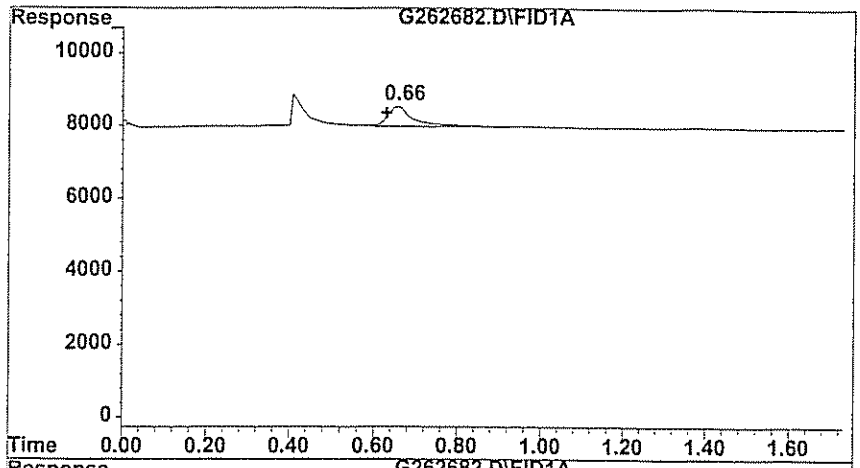
Quantitation Report

Data File : H:\GCDATA\G\032509\G262682.D Vial: 24
Acq On : 25 Mar 2009 19:34 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 19:44 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

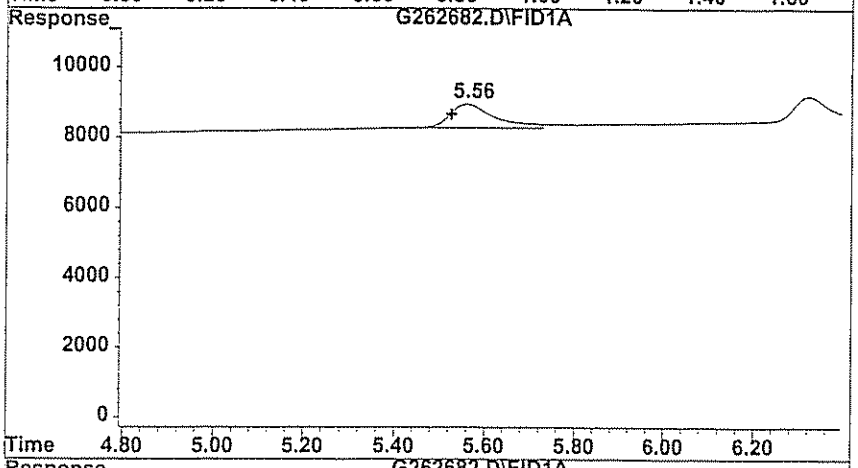
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





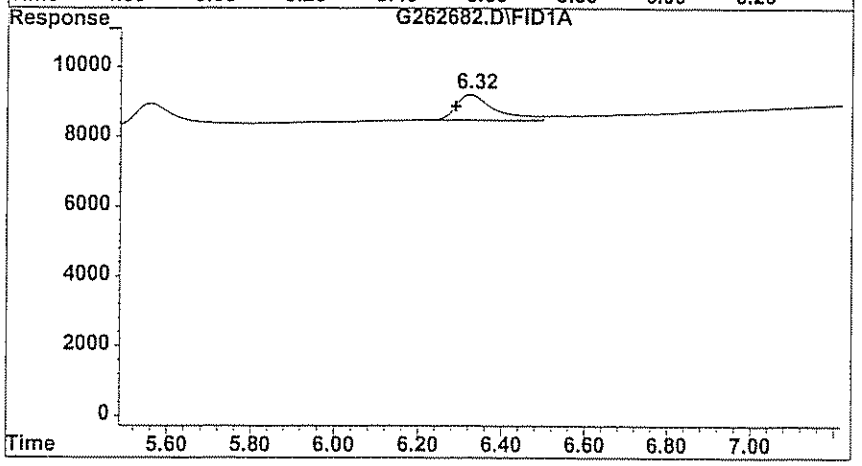
#1 Methane

R.T.:	0.657 min
Delta R.T.:	0.030 min
Response:	2418
Conc:	15.47 ppb m



#2 Ethane

R.T.:	5.560 min
Delta R.T.:	0.037 min
Response:	671
Conc:	28.30 ppb



#3 Ethylene

R.T.:	6.323 min
Delta R.T.:	0.037 min
Response:	727
Conc:	24.45 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262697.D Vial: 13
Acq On : 27 Mar 2009 14:27 Operator: NK
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 14:38 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.61	2792	14.951	ppb	m
2) T	Ethane	5.53	833	27.428	ppb	m
3) T	Ethylene	6.32	1038	27.193	ppb	m

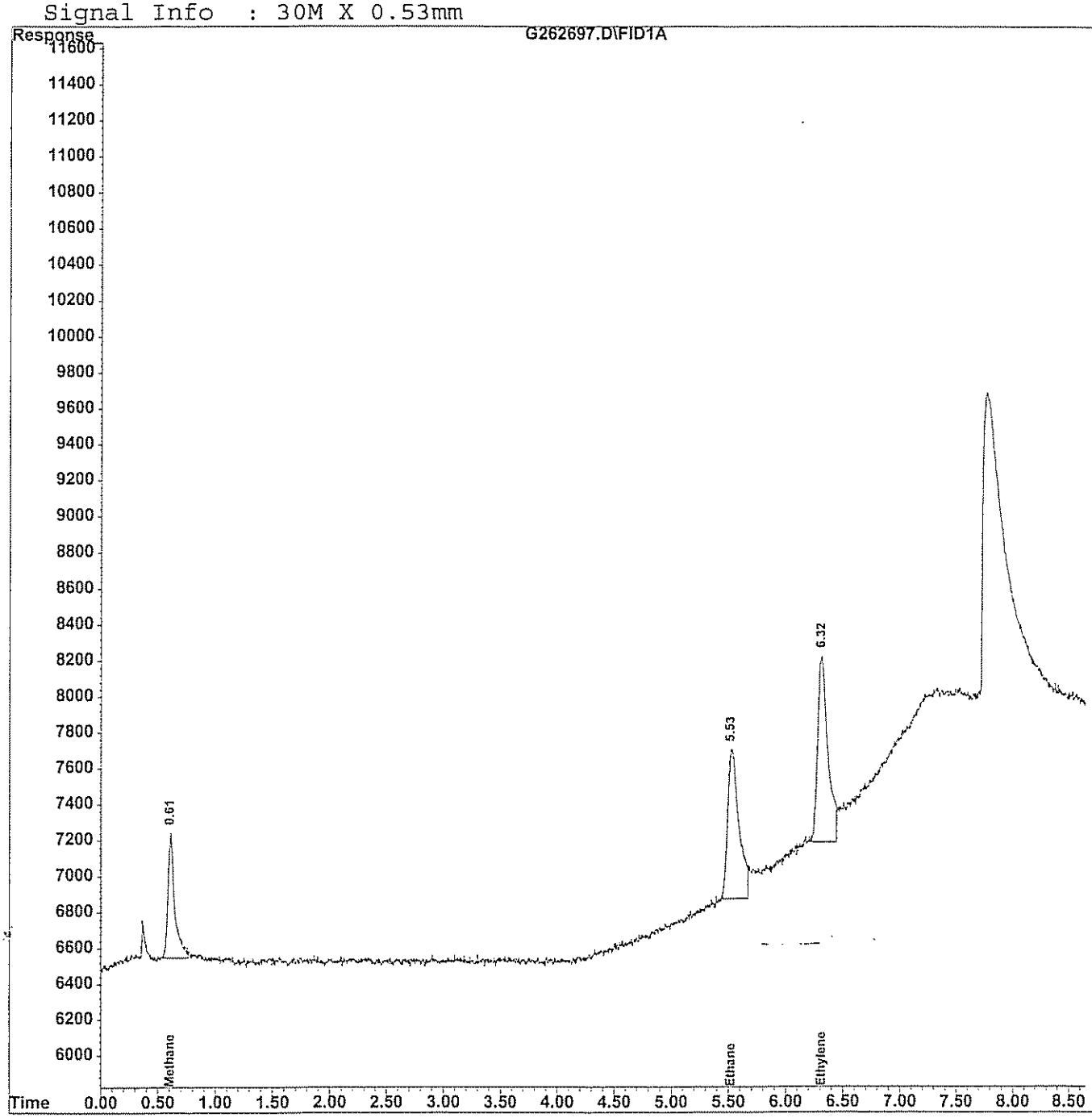
(f)=RT Delta > 1/2 Window (m)=manual
G262697.D RSK0327.M Mon Mar 30 07:38:56 2009 W28_IOANNIDE Page 1

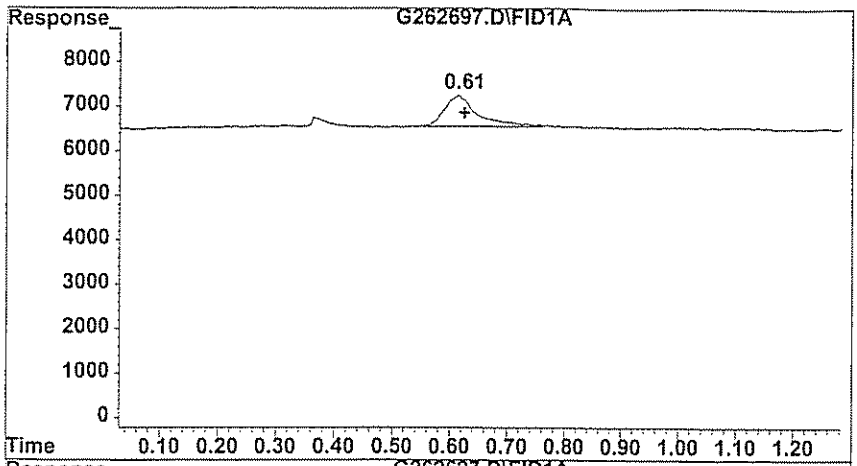
Quantitation Report

Data File : H:\GCDATA\G\032709\G262697.D Vial: 13
Acq On : 27 Mar 2009 14:27 Operator: NK
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 14:38 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

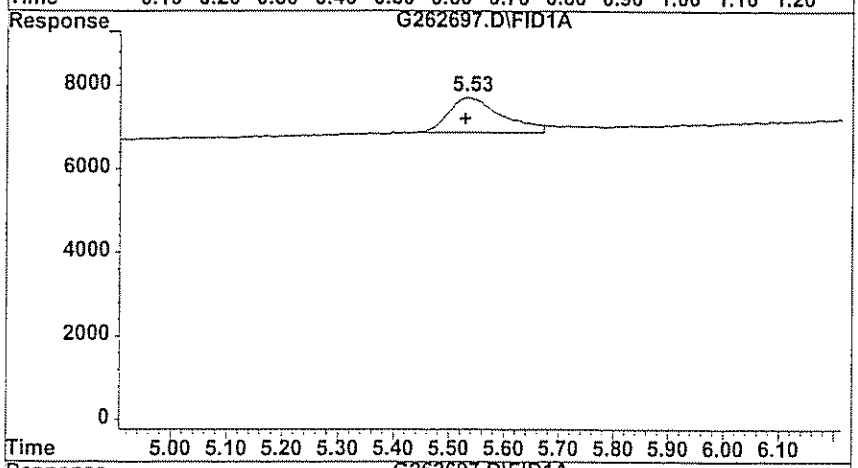
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





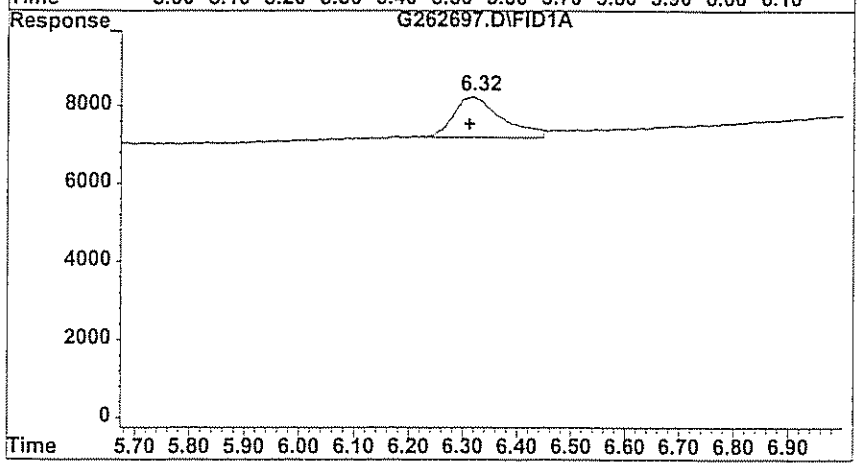
#1 Methane

R.T.: 0.613 min
Delta R.T.: -0.010 min
Response: 2792
Conc: 14.95 ppb m



#2 Ethane

R.T.: 5.530 min
Delta R.T.: 0.003 min
Response: 833
Conc: 27.43 ppb m



#3 Ethylene

R.T.: 6.320 min
Delta R.T.: 0.010 min
Response: 1038
Conc: 27.19 ppb m

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

6. Injection Logsheet

7. Control Charts (where applicable)

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108859

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108859
Sample Volume :	10	Lab File ID :	G262655.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262655.D Vial: 38
Acq On : 25 Mar 2009 7:55 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 8:05 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.00	0	N.D.	ppb	d
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

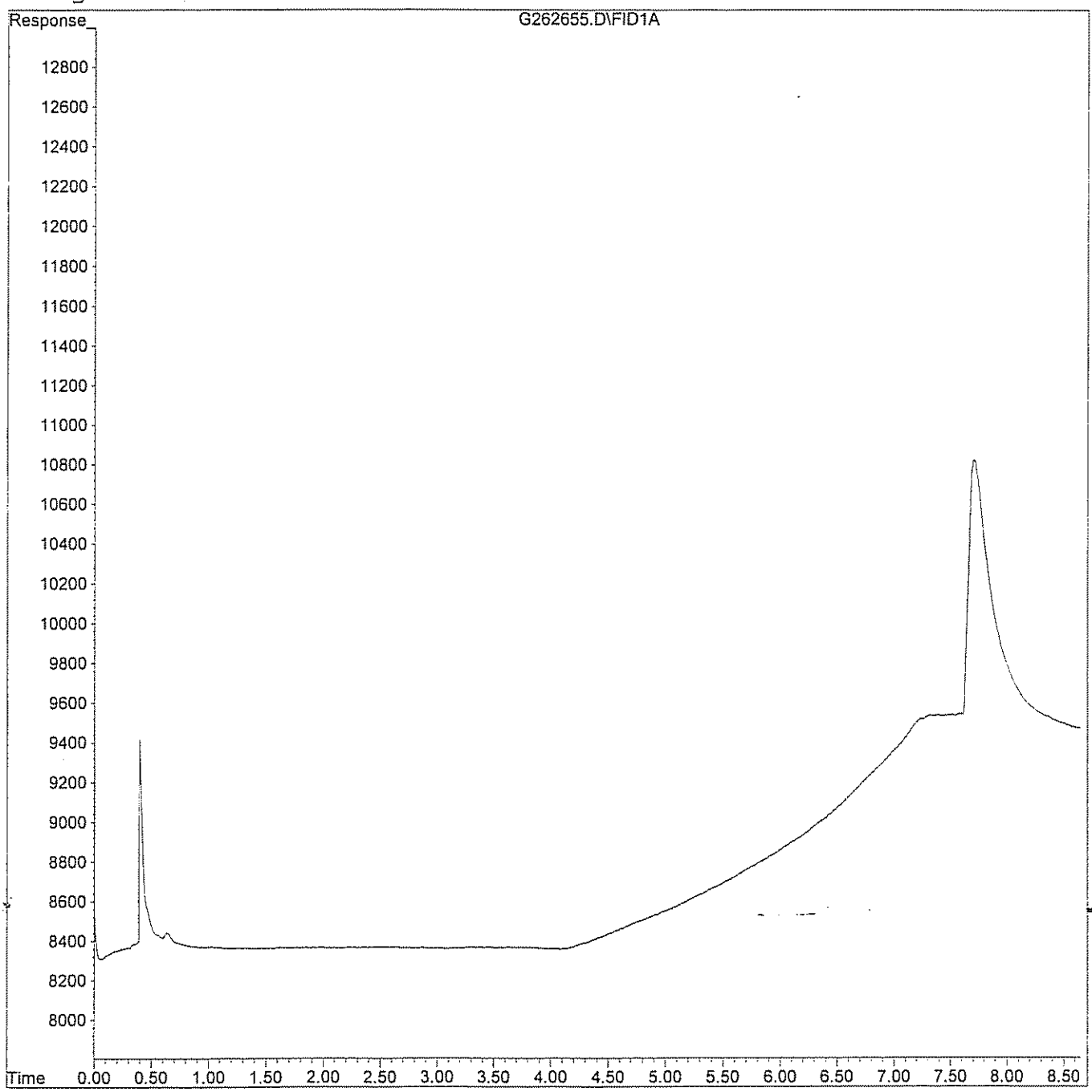
(f)=RT Delta > 1/2 Window (m)=manual int

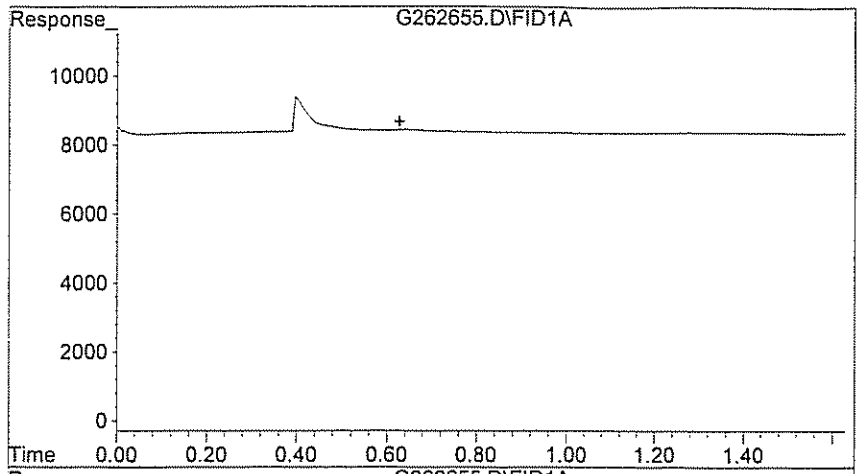
Quantitation Report

Data File : H:\GCDATA\G\032509\G262655.D Vial: 38
Acq On : 25 Mar 2009 7:55 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 8:05 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

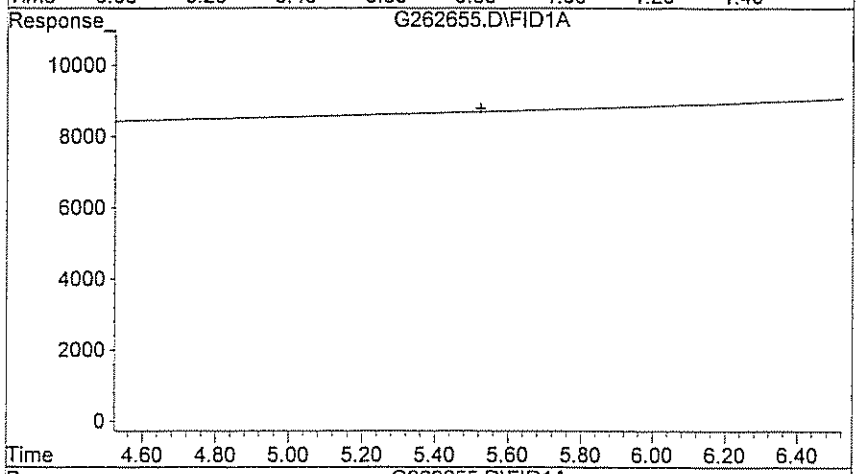
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





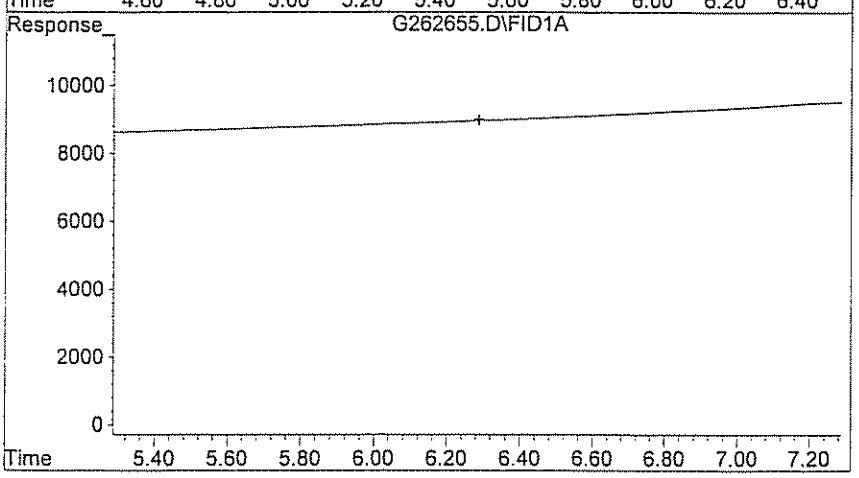
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108892

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108892
Sample Volume :	10	Lab File ID :	G262675.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262675.D Vial: 17
Acq On : 25 Mar 2009 17:42 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 17:54 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.00	0	N.D.	ppb	d
2)	T	Ethane	0.00	0	N.D.	ppb	d
3)	T	Ethylene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manua

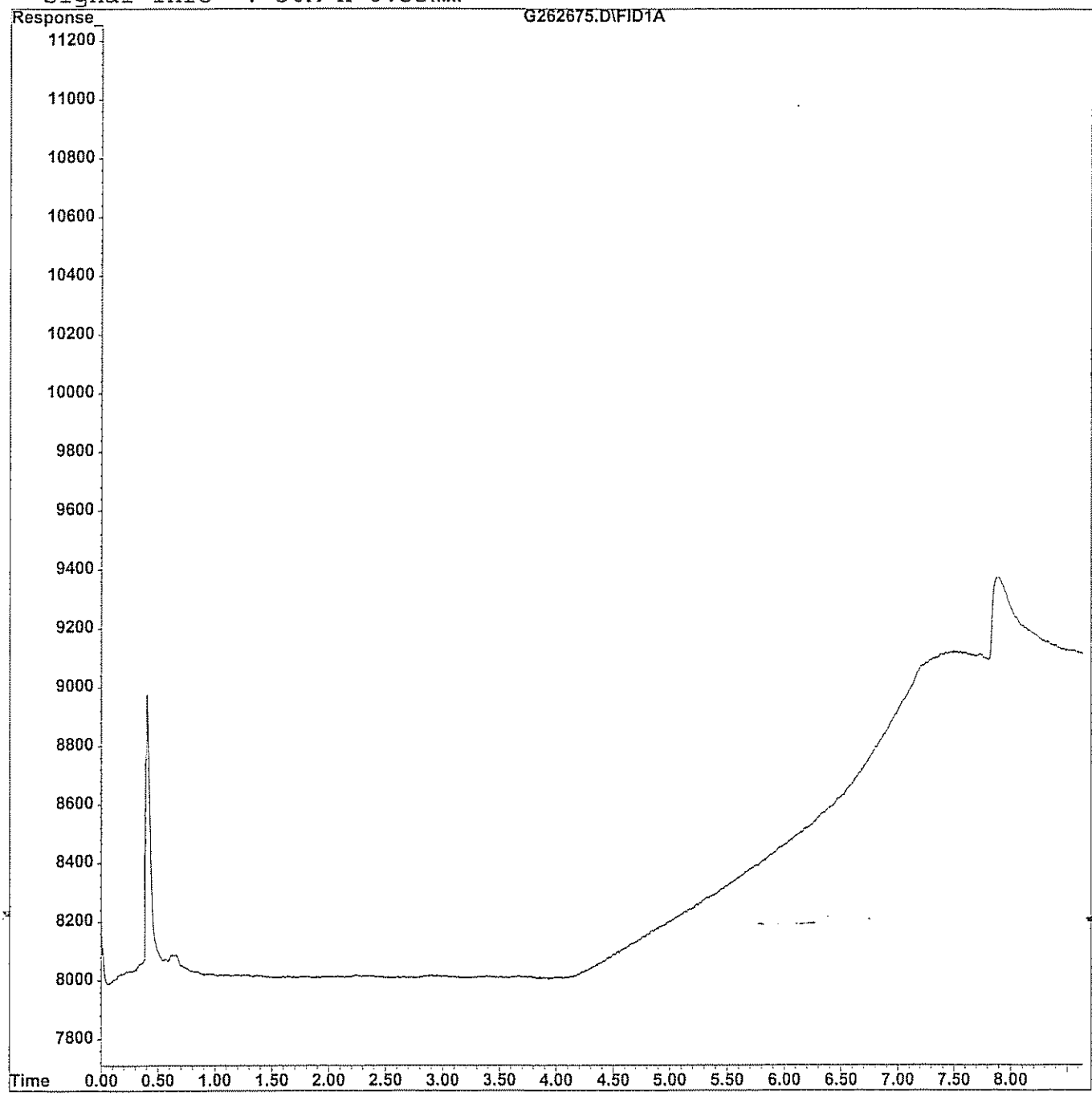
G262675.D RSK0320.M Wed Mar 25 17:54:52 2009 W28_IOANNIDE Page 1

Quantitation Report

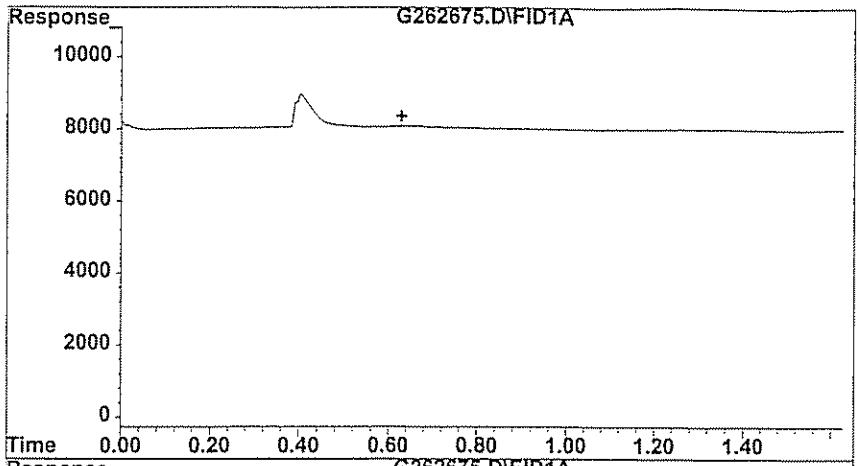
Data File : H:\GCDATA\G\032509\G262675.D Vial: 17
Acq On : 25 Mar 2009 17:42 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 17:54 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

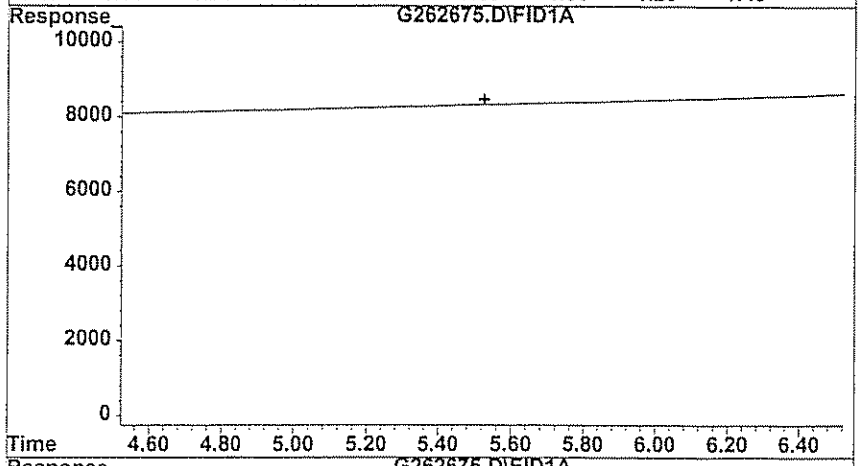


700 of 754



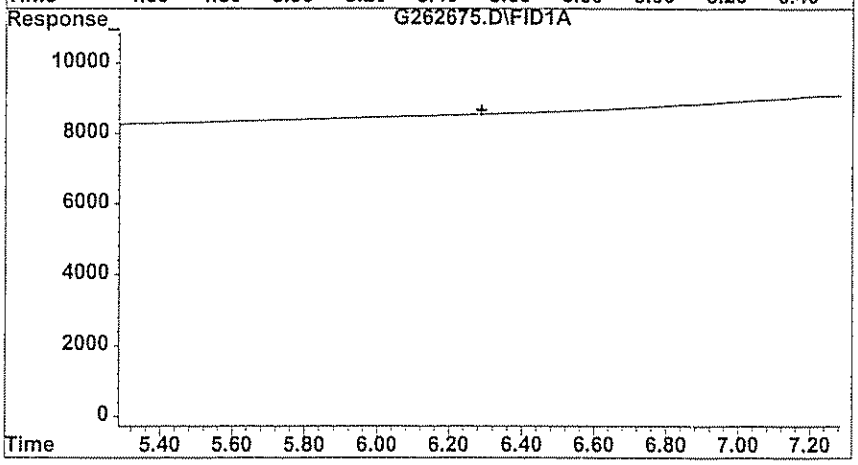
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.627 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.523 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.287 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108895

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108895
Sample Volume :	10	Lab File ID :	G262690.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262690.D Vial: 6
Acq On : 27 Mar 2009 11:29 Operator: NK
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:38 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.00	0	N.D.	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

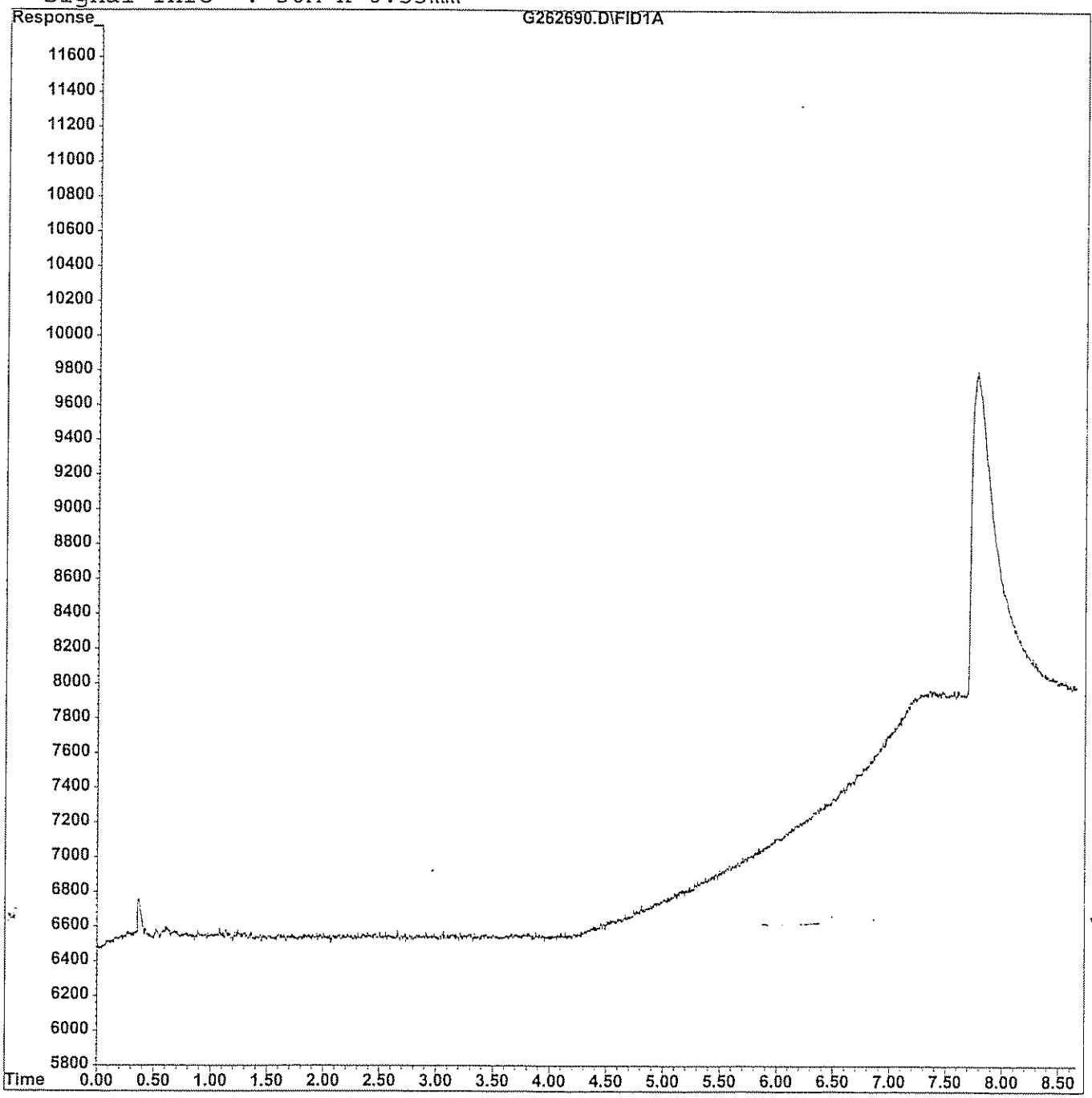
(f)=RT Delta > 1/2 Window (m)=manual

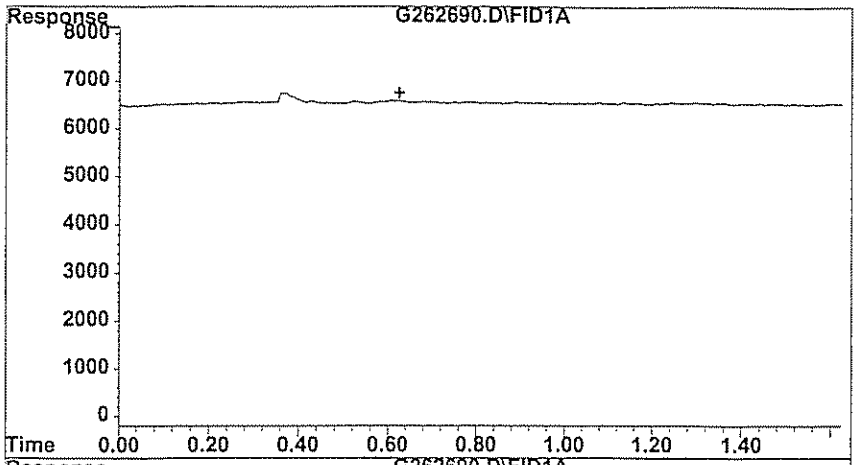
Quantitation Report

Data File : H:\GCDATA\G\032709\G262690.D Vial: 6
Acq On : 27 Mar 2009 11:29 Operator: NK
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:38 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

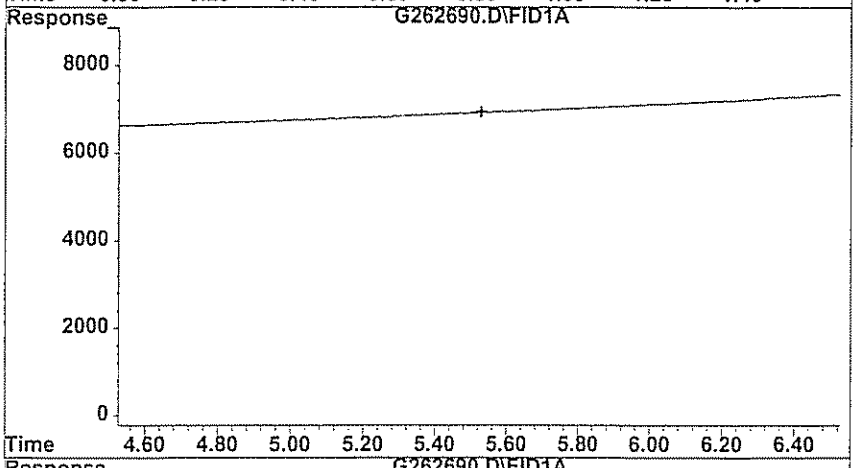
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





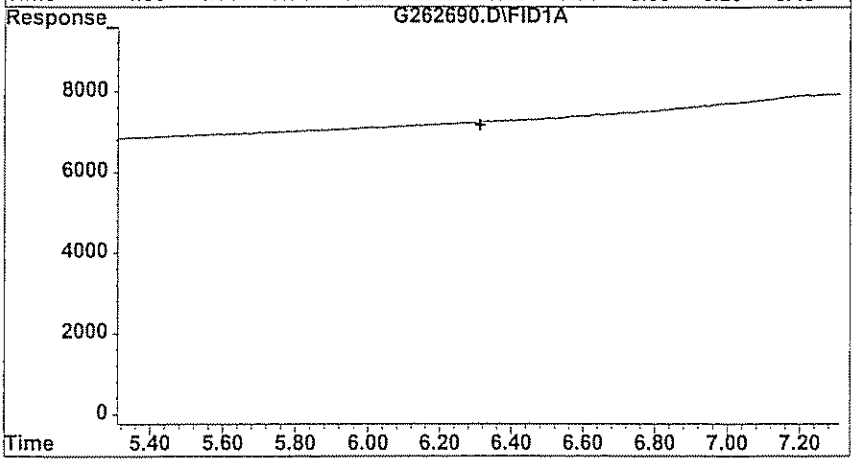
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.623 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-116-1/6MS
Sample Volume :	10	Lab File ID :	G262663.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	22	
74-85-1	Ethene	19	
74-82-8	Methane	13	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262663.D Vial: 5
Acq On : 25 Mar 2009 13:15 Operator: TG
Sample : 903098-002MS Inst : GC-G
Misc : OU1-16GW11-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 13:27 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2076	13.279	ppb	m
2) T	Ethane	5.56	530	22.350	ppb	m
3) T	Ethylene	6.32	560	18.836	ppb	m

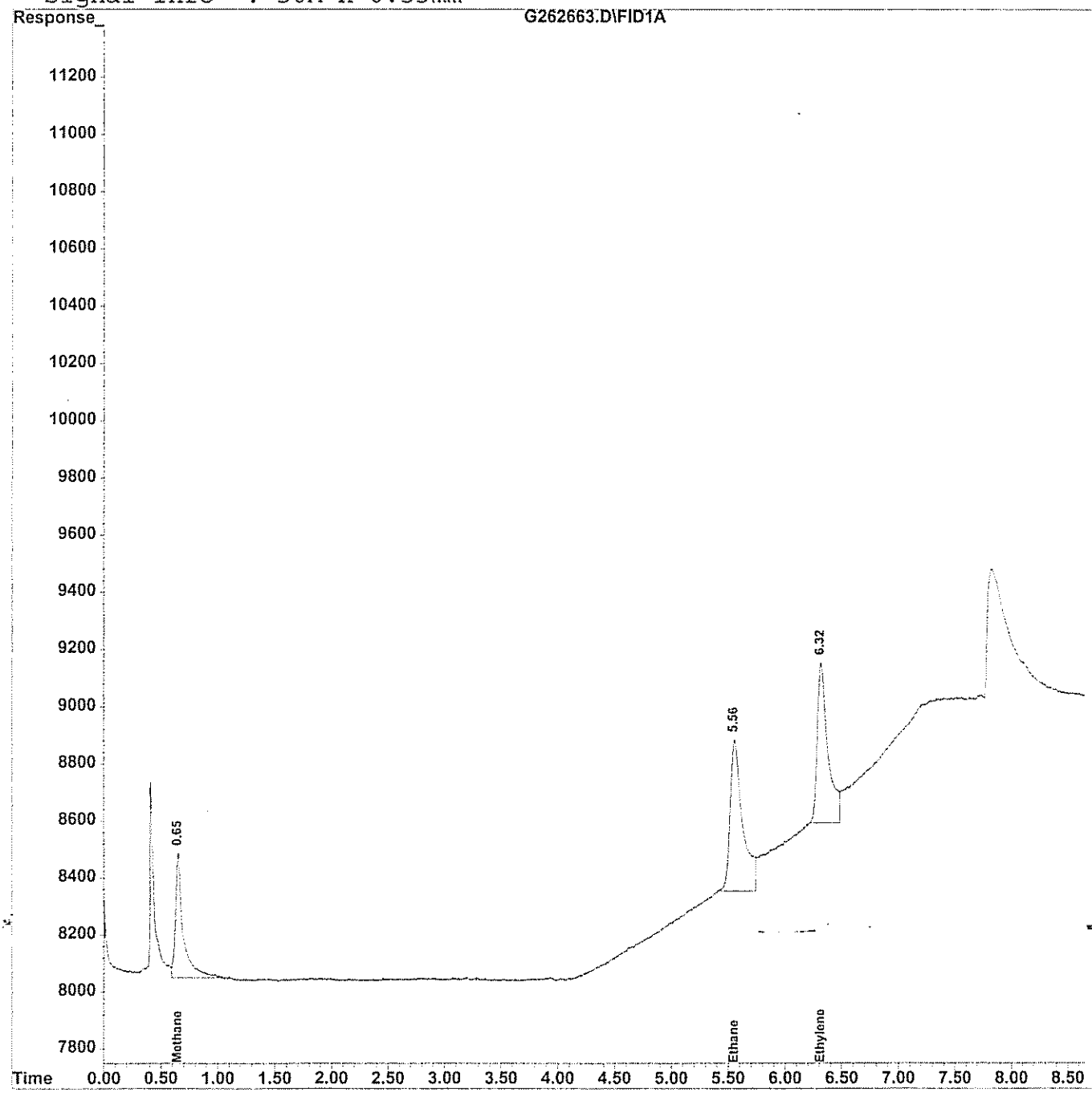
(f)=RT Delta > 1/2 Window (m)=manual int

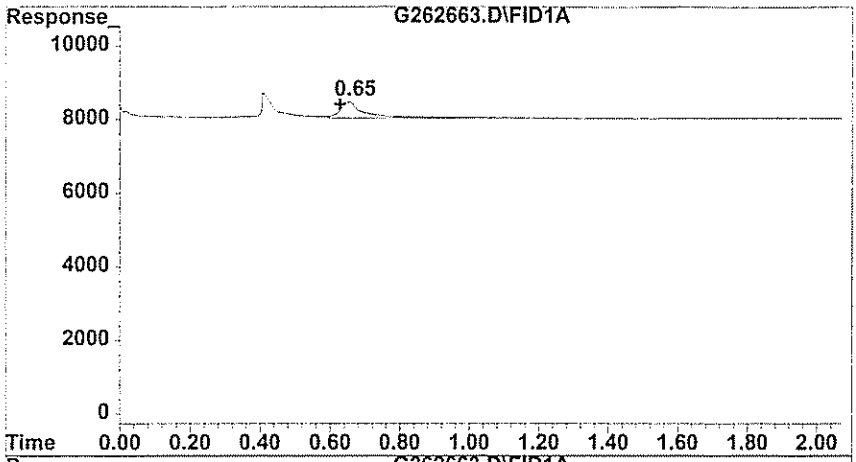
Quantitation Report

Data File : H:\GCDATA\G\032509\G262663.D Vial: 5
Acq On : 25 Mar 2009 13:15 Operator: TG
Sample : 903098-002MS Inst : GC-G
Misc : OU1-16GW11-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 13:27 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

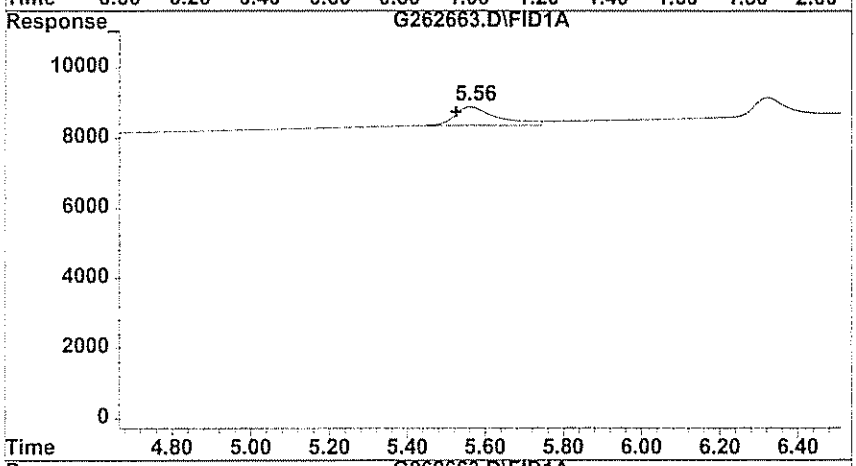
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





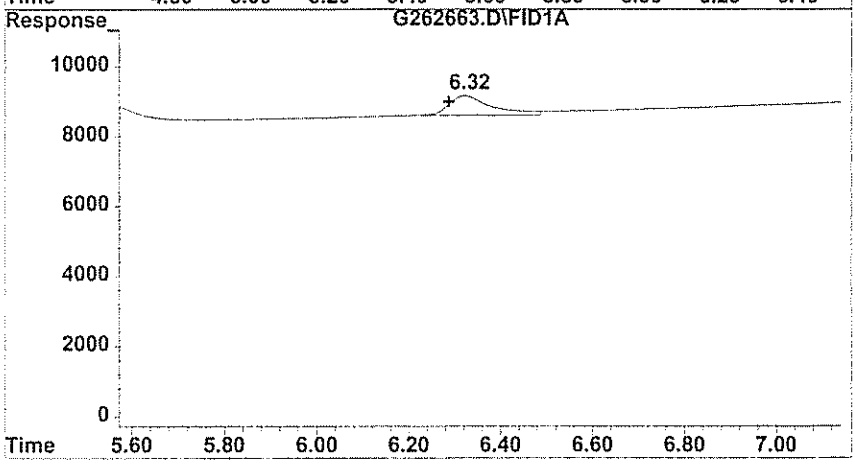
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.027 min
Response: 2076
Conc: 13.28 ppb m



#2 Ethane

R.T.: 5.560 min
Delta R.T.: 0.037 min
Response: 530
Conc: 22.35 ppb m



#3 Ethylene

R.T.: 6.320 min
Delta R.T.: 0.033 min
Response: 560
Conc: 18.84 ppb m

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-16GW11-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-002-116-1/6MSD
Sample Volume :	10	Lab File ID :	G262664.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/25/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	28	
74-85-1	Ethene	25	
74-82-8	Methane	15	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032509\G262664.D Vial: 6
Acq On : 25 Mar 2009 13:29 Operator: TG
Sample : 903098-002MSD Inst : GC-G
Misc : OU1-16GW11-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 13:40 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2393	15.307	ppb	m
2) T	Ethane	5.55	670	28.254	ppb	m
3) T	Ethylene	6.32	735	24.722	ppb	m

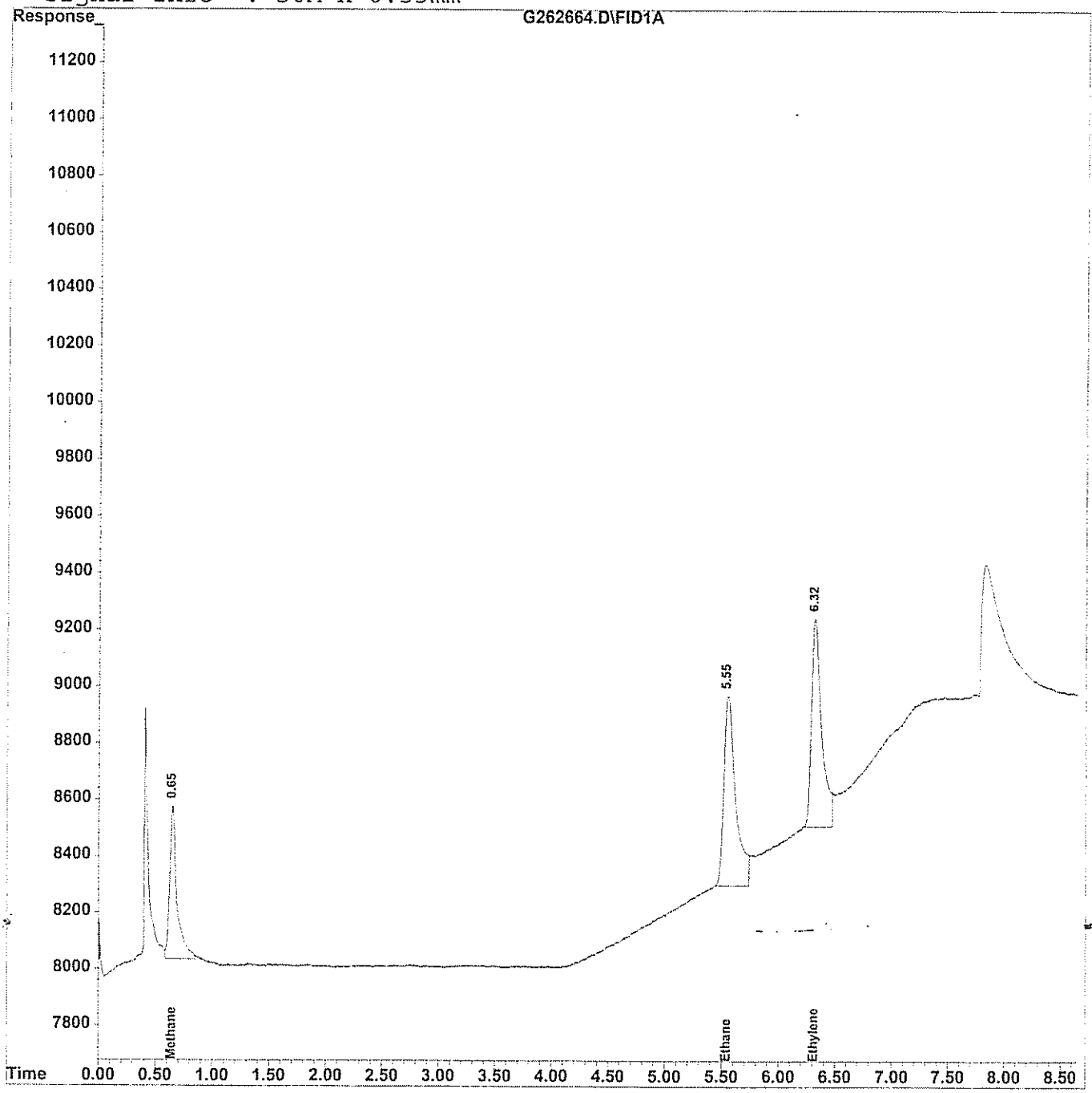
(f)=RT Delta > 1/2 Window (m)=manual int

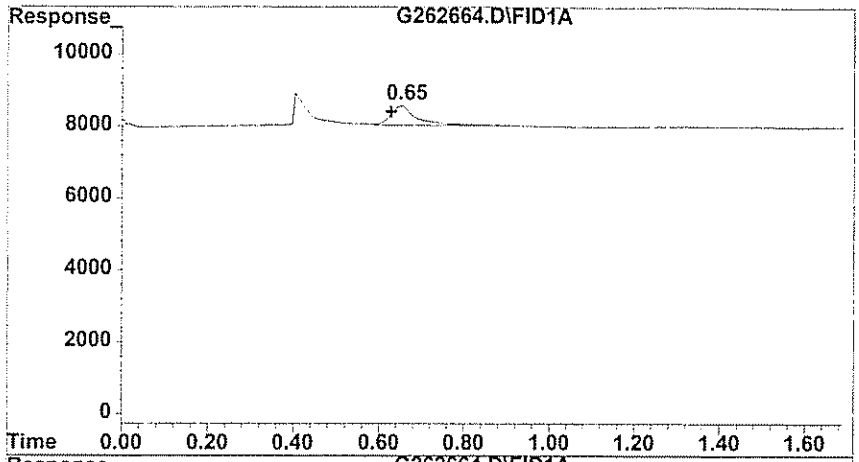
Quantitation Report

Data File : H:\GCDATA\G\032509\G262664.D Vial: 6
Acq On : 25 Mar 2009 13:29 Operator: TG
Sample : 903098-002MSD Inst : GC-G
Misc : OU1-16GW11-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 25 13:40 2009 Quant Results File: RSK0320.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0320.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 20 10:15:34 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

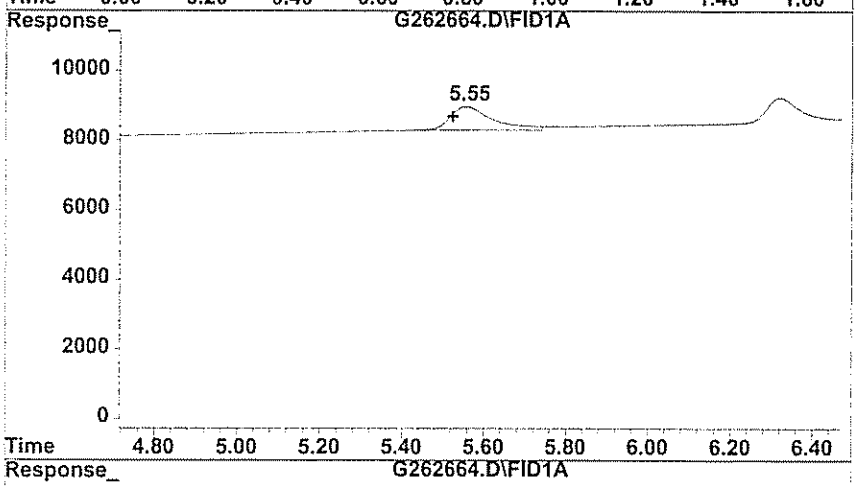
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





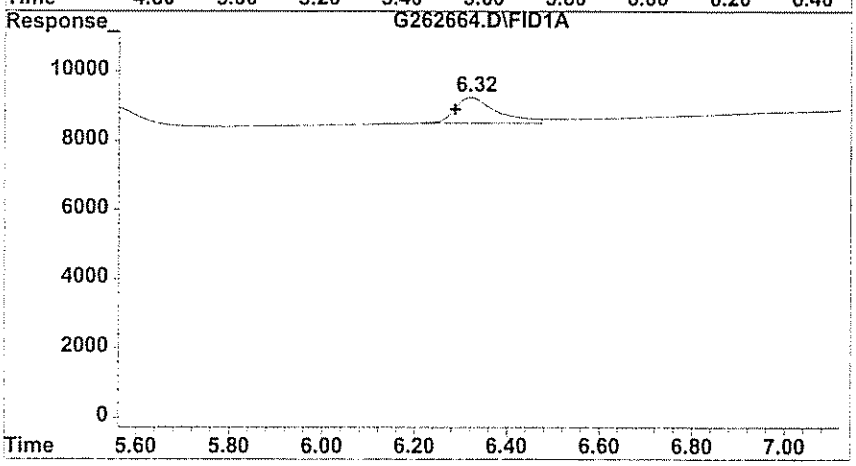
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.023 min
Response: 2393
Conc: 15.31 ppb m



#2 Ethane

R.T.: 5.550 min
Delta R.T.: 0.027 min
Response: 670
Conc: 28.25 ppb m



#3 Ethylene

R.T.: 6.320 min
Delta R.T.: 0.033 min
Response: 735
Conc: 24.72 ppb m

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-111-2/6MS
Sample Volume :	1	Lab File ID :	G262692.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	290	
74-85-1	Ethene	280	
74-82-8	Methane	250	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262692.D Vial: 8
Acq On : 27 Mar 2009 12:15 Operator: NK
Sample : 903098-012MS Inst : GC-G
Misc : OU1-N4GW09-0309, CH2M, WATER, 1ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 12:42 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.62	4681	25.067	ppb	
2) T	Ethane	5.54	889	29.272	ppb	m
3) T	Ethylene	6.31	1084	28.398	ppb	m

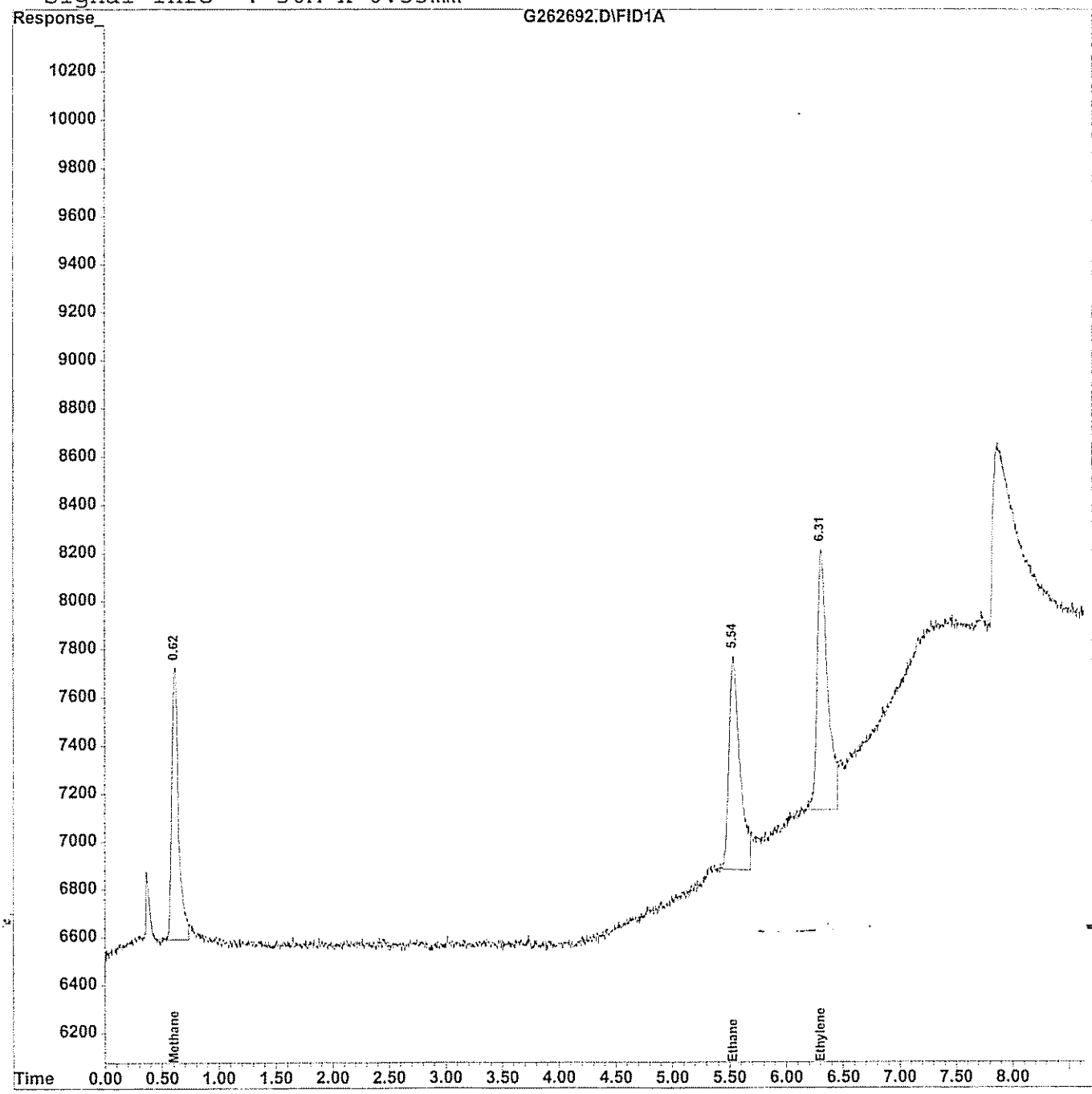
(f)=RT Delta > 1/2 Window (m)=manual int.

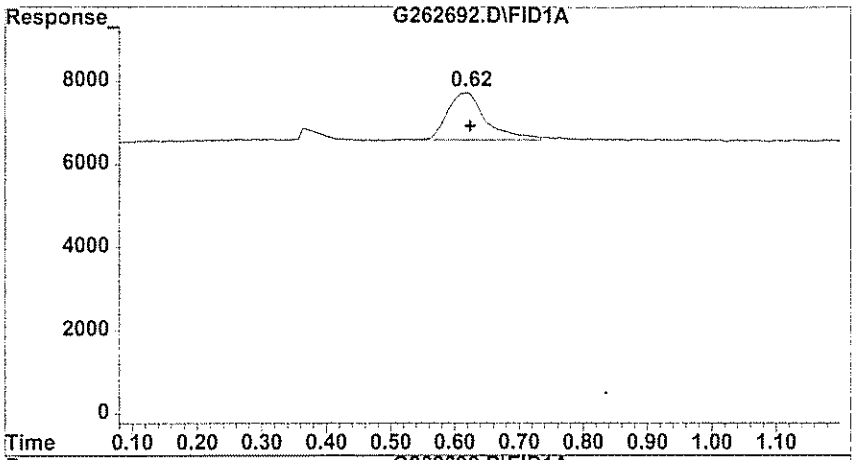
Quantitation Report

Data File : H:\GCDATA\G\032709\G262692.D Vial: 8
Acq On : 27 Mar 2009 12:15 Operator: NK
Sample : 903098-012MS Inst : GC-G
Misc : OU1-N4GW09-0309, CH2M, WATER, 1ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 12:42 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

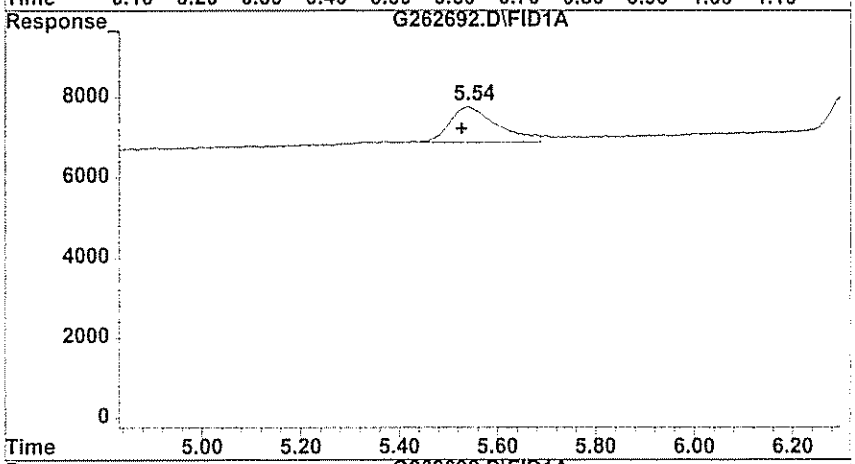
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





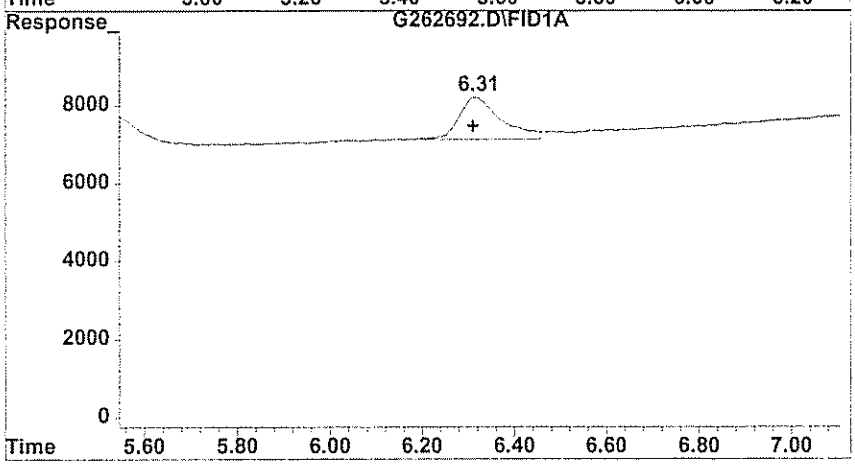
#1 Methane

R.T.: 0.617 min
Delta R.T.: -0.007 min
Response: 4681
Conc: 25.07 ppb



#2 Ethane

R.T.: 5.540 min
Delta R.T.: 0.013 min
Response: 889
Conc: 29.27 ppb m



#3 Ethylene

R.T.: 6.310 min
Delta R.T.: 0.000 min
Response: 1084
Conc: 28.40 ppb m

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-111-2/6MSD
Sample Volume :	1	Lab File ID :	G262693.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	290	
74-85-1	Ethene	280	
74-82-8	Methane	240	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262693.D Vial: 9
Acq On : 27 Mar 2009 12:29 Operator: NK
Sample : 903098-012MSD Inst : GC-G
Misc : OU1-N4GW09-0309, CH2M, WATER, 1ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 12:45 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.61	4588	24.569	ppb	m
2) T	Ethane	5.55	884	29.107	ppb	
3) T	Ethylene	6.32	1079	28.267	ppb	m

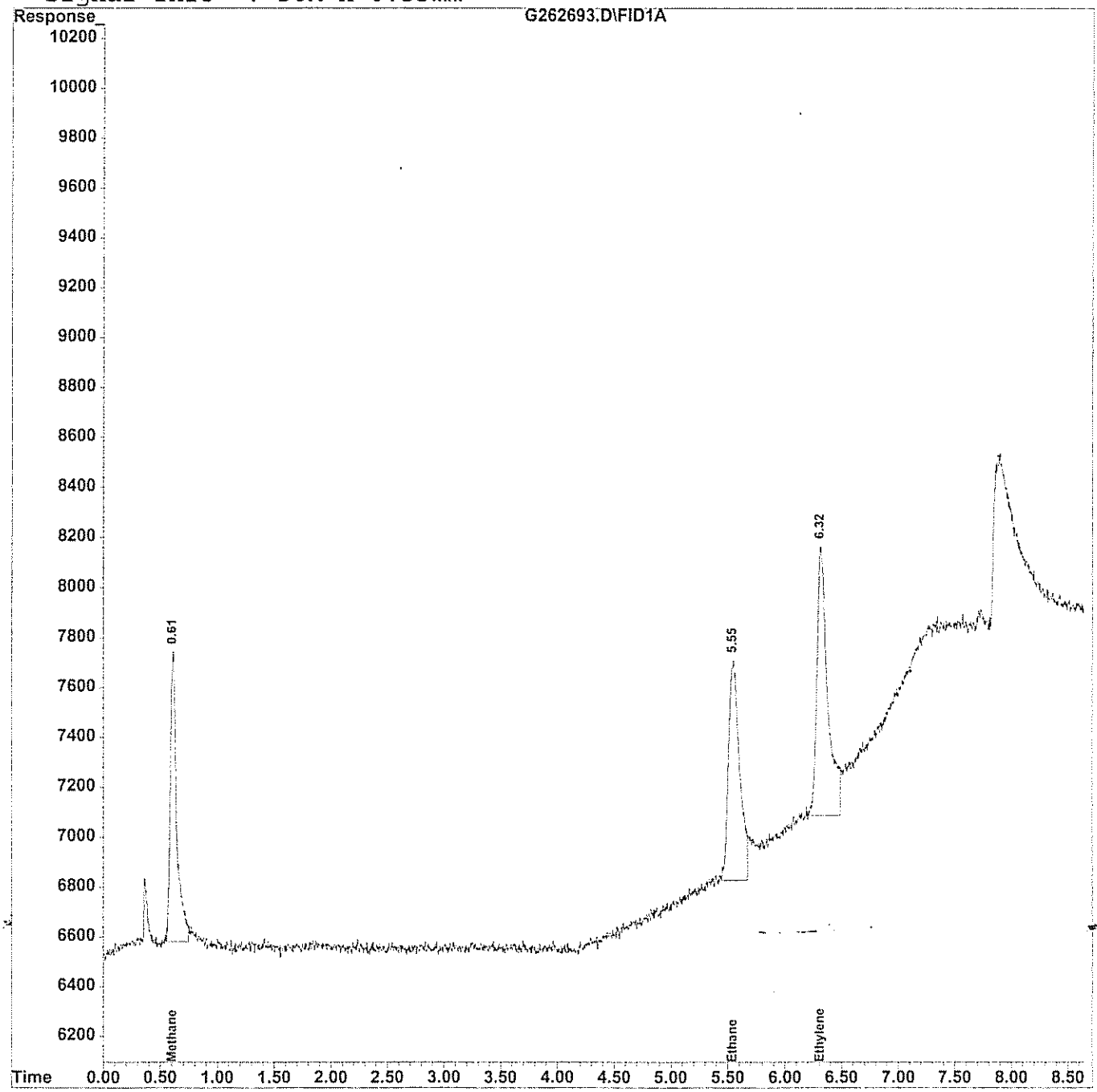
(f)=RT Delta > 1/2 Window (m)=manual int

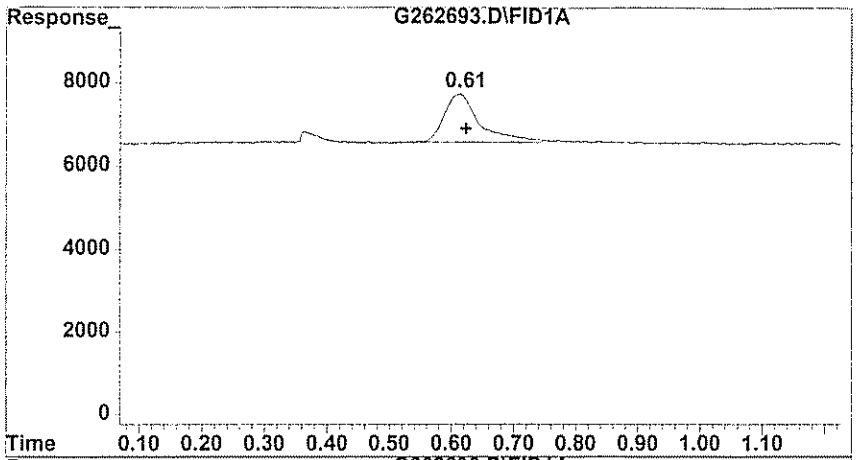
Quantitation Report

Data File : H:\GCDATA\G\032709\G262693.D Vial: 9
Acq On : 27 Mar 2009 12:29 Operator: NK
Sample : 903098-012MSD Inst : GC-G
Misc : OU1-N4GW09-0309, CH2M, WATER, 1ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 12:45 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

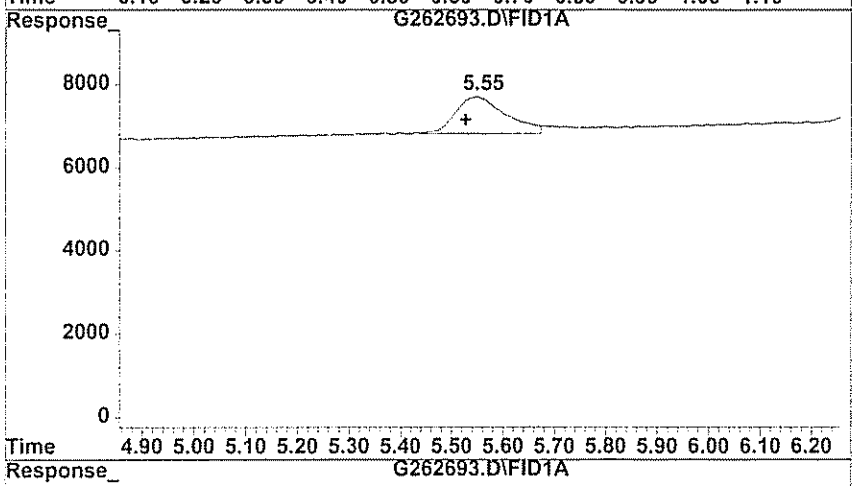
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





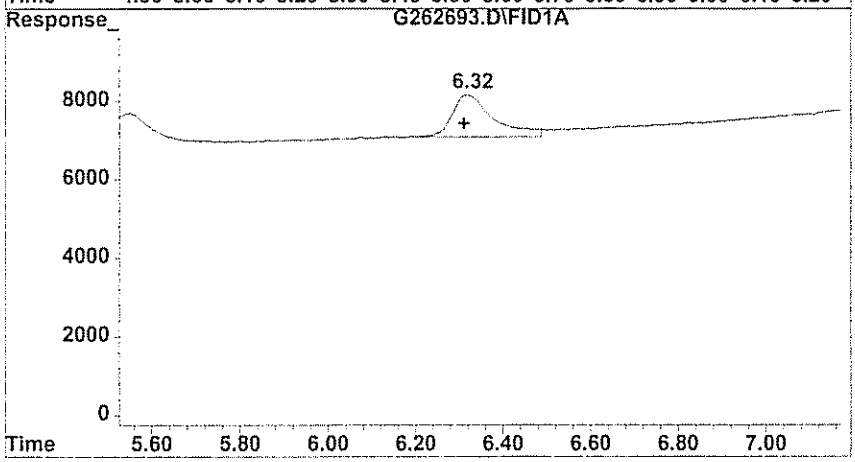
#1 Methane

R.T.: 0.613 min
Delta R.T.: -0.010 min
Response: 4588
Conc: 24.57 ppb m



#2 Ethane

R.T.: 5.550 min
Delta R.T.: 0.023 min
Response: 884
Conc: 29.11 ppb



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.007 min
Response: 1079
Conc: 28.27 ppb m

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: ✓ DATE: 3/25/09

INSTRUMENT ID: HP 5890 # G
ANALYSIS/FRACTION: VOA
ANALYSTS: TG
ICAL DATE: 3/20/09

METHOD FILE: RSK0320
SEQUENCE FILE: 03/20/09

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262567	Cal 01	3/20/09	1X	water	10mL	N/A	RSK175	OK
	G 68	cal 02							OK
	G 69	Cal 04							OK
	G 70	Cal 05							OK
	G 71	cal 010							OK
	G 72	BLK							OK
	G 73	903062-001							OK
	G 74	-002							OK
	G 75	-003							OK
	G 76	-004							need dilution TG ~~not used~~
	G 77	-005							need dilution TG ~~not used~~
	G 78	-006							OK
	G 79	-006MS							OK
	G 80	-006MSD							OK
	G 81	CCV05							OK
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								

TG 3/23/09

REMARKS

Standards	Lot #	Conc.	Prep. Date	Volume
Methane	8282011L	1000ppm	3/18/2009	2-5mL
Ethane	907605I	↓	3/17/2009	↓
Ethylene	8014011L	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: _____ DATE: 3/31/09

INSTRUMENT ID: **HP 5890 # G**
ANALYSIS/FRACTION: VOA
ANALYSTS: TC
ICAL DATE: 3/20/09

METHOD FILE: 0320.m
SEQUENCE FILE: 3/25/09

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 26254	CCV	3/25/09	STD	water	10ml	N/A	RSK 175	OK
	G 55	BLK		↓					OK
	G 56	903098-001		1X					need dilution
	G 57	-002							↓
	G 58	-003		↓					OK
	G 59	-001DL		1X					OK
	G 60	-003DL		500X					need dilution
	G 61	-004		1X					OK
	G 62	-003DL2		1000X					OK
	G 63	-002MS		1X					OK
	G 64	-002MSD		1X					OK
	G 65	CCV		STD					OK
	G 66	903098-004DL		10X					need dilution
	G 67	-005		1X					need dilution
	G 68	-006							need dilution
	G 69	-008		↓					OK
	G 70	-006DL		10X					OK
	G 71	-008DL		20X					need dilution
	G 72	-007		1X					OK
	G 73	-007DL		10X					OK
	G 74	CCV		1X					OK
	G 75	BLK		↓					OK
	G 76	903098-009DL		10X					need dilution
	G 77	-009		1X					need dilution
	G 78	-010							OK
	G 79	-011		↓	↓		↓	↓	

REMARKS

1/2

Standards	Lot #	Conc.	Prep. Date	Volume
Methanol	828201L	100PPM	3/18/2009	2.5ml
ethanol	907605L	↓	3/17/2009	↓
ethylene	801401L	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: _____ DATE: 3/31/09

INSTRUMENT ID: HP 5890 # G
ANALYSIS/FRACTION: VOA
ANALYSTS: TW
ICAL DATE: 03/20/09

METHOD FILE: 0320-M
SEQUENCE FILE: 3/25/09

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262680	903098-012	3/25/09	1X	water	10ml	N/A	PLSLL75	need dilution
	G 81	-010DL	↓	5X	↓	2ml	↓	↓	OK
	G ↓ 82	CCV	↓	1X		10ml	↓	↓	OK
	G								
	G								
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	G								
	G,								

3/30/09 TW

REMARKS

2/2

Standards	Lot #	Conc.	Prep. Date	Volume
methanol	8282011L	1000PPM	3/18/2009	2.5mL
~~ethanol~~	907605L	↓	3/17/2009	↓
ethylene	801401L	↓	7/16/2009	↓

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: JW DATE: 3/31/09

INSTRUMENT ID: **HP 5890 # G**
ANALYSIS/FRACTION: VOA
ANALYSTS: TL
ICAL DATE: 3/27/09

METHOD FILE: 0327-M
SEQUENCE FILE: 03/27/09

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262683	CCV	3/27/09	1X	water	10ml	N/A	BSIC125	not used
	G 84	CCV							OK
	G 85	cal 01							OK
	G 86	cal 02							OK
	G 87	cal 04							OK
	G 88	cal 05							OK
	G 89	cal 10							OK
	G 90	BLK							OK
	G 91	903098-012DL		10X		1ml			OK
	G 92	903098-012MS							OK
	G 93	903098-012MSD							OK
	G 94	903125-001		1X		10ml			need dilution
	G 95	-002							need dilution
	G 96	-003							need dilution
	G 97	CCV		1X		10ml			OK
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								

TL 3/30/09

REMARKS

Standards	Lot #	Conc.	Prep. Date	Volume
Methane	8282011	1000ppm	3/18/2009	2.5 mL
Ethane	9076051	↓	3/17/2009	↓
Ethylene	8014011	↓	7/16/2009	↓

GENERAL CHEMISTRY

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary
   (where applicable)

GPL Laboratories, LLLP

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLP Client: CH2M Hill

GPL Work-Order: 903098

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-16GW11-0309	BQL	BQL	N/C	15%
Sulfide	E376.1	OU1-1N4GW09-0309	BQL	BQL	N/C	15%

%RPD - 0 out of 2 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-16GW11-0309	2.07	6.08	4.00	100.3	85 - 115%

% Recovery - 0 out of 1 outside control limits

B. Sample Data

GPL Laboratories, LLLP

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1																	
2																	
3																	
4	Sulfide	AN	903071-001-02	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
5	Sulfide	AN	903071-001-02	MD / SE	376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
6	Sulfide	AN	903071-002-02	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
7	Sulfide	AN	903071-003-02	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
8	Sulfide	AN	903071-004-02	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
9	Sulfide	AN	903071-005-02	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
10	Sulfide	AN	903093-001-03	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
11	Sulfide	AN	903093-002-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
12	Sulfide	AN	903093-003-04	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
13	Sulfide	AN	903093-004-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
14	Sulfide	AN	903093-005-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
15	Sulfide	AN	903093-006-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
16	Sulfide	AN	903093-007-04	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
17	Sulfide	AN	903093-008-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
18	Sulfide	AN	903098-001-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
19	Sulfide	AN	903098-002-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
20	Sulfide	AN	903098-002-08	MD / SE	376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
21	Sulfide	AN	903098-003-07	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
22	Sulfide	AN	903098-004-07	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
23	Sulfide	AN	903098-005-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
24	Sulfide	AN	903098-006-07	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
25	Sulfide	AN	903098-007-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
26	Sulfide	AN	903098-008-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
27	Sulfide	AN	903098-009-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
28	Sulfide	AN	903098-010-08	SMP /	E376.1	0	2.0000	✓	1.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.0000
29	Sulfide	AN	903098-011-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
30	Sulfide	AN	903098-012-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
31	Sulfide	AN	903098-012-08	MD / SE	376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000

Method Title: Sulfide (~~Titrimetric~~)
Method Reference: ~~MCAWW 376.1~~ / 9031
Normality of Iodine (~~Avg. N~~): 0.027
Detection Limit: 2.0 mg/L

Analyst: CP
Date / Time: 3.18.09 / 9.15a
Reviewed by/Date: C 3-18-09

ANALYSIS RAW DATA #124013

Work Order	Frac.	Client ID	Sample Vol. (ml)	Iodine (ml)	Sodium Thiosulfate (ml)	Sulfide mg/L
ICV		#4435	20ml/s	5	5.20	4.0
ICB		Blank	20ml/s	5	5.40	<2.0
903071	001		20ml/s	5	5.35	1.0 <2.0
Dup	001		20ml/s	5	5.35	1.0 <2.0
	002		20ml/s	5	5.40	<2.0
	003		20ml/s	5	5.40	<2.0
	004		20ml/s	5	5.40	<2.0
↓	005		20ml/s	5	5.35	1.0 <2.0
903093	001		20ml/s	5	5.45	<2.0
↓	002		20ml/s	5	5.40	<2.0
	003		20ml/s	5	5.35	1.0 <2.0
↓	004		20ml/s	5	5.40	<2.0
CCV1		#4435	20ml/s	5	5.18	4.4
CCB1		Blank	20ml/s	5	5.40	<2.0
903093	005		20ml/s	5	5.40	<2.0
↓	006		20ml/s	5	5.40	<2.0
	007		20ml/s	5	5.35	1.0 <2.0
↓	008		20ml/s	5	5.40	<2.0
903098	001		20ml/s	5	5.40	<2.0
↓	002		20ml/s	5	5.40	<2.0
Dup	002		20ml/s	5	5.40	<2.0
	003		20ml/s	5	5.35	1.0 <2.0
↓	004		20ml/s	5	5.35	1.0 <2.0

CALCULATION:

1. mg/L Sulfide = $\frac{[(AXB) - (CXD)] \times 16000}{mL\ Sample}$ 0.135

where:
A = ml Iodine ; B = Normality of iodine;
C = ml $Na_2S_2O_3$ titrant; D = Normality of $Na_2S_2O_3$

Continued →

* H2O Final Results = Dilution Factor X Concentration

Soil Final Results = $\frac{\text{Dilution Factor x Concentration x extract volume}}{\text{wt. of sample x \% solids}}$

Method Title: Sulfide (Titrimetric)
Method Reference: MCAWW 376.1 / 9031
Normality of Iodine (Avg. N): 0.027
Detection Limit: 2.0 mg/L

Analyst: GP.
Date / Time: 3.18.09 / 9.15 am.
Reviewed by/Date: 3-18-09

Cont.

ANALYSIS RAW DATA

Work Order	Frac.	Client ID	Sample Vol. (ml)	Iodine (ml)	Sodium Thiosulfate (ml)	Sulfide mg/L
903098	005		20 ml s	5	5.40	<2.0
CW2		#44135	20 ml r	5	5.20	4.0
LCS2		Blank	20 ml s	5	5.40	<2.0
903098	006		20 ml s	5	5.35	1.0 <2.0
"	007		20 ml r	5	5.40	<2.0
"	008		20 ml s	5	5.45	<2.0
"	009		20 ml s	5	5.40	<2.0
"	010		20 ml s	5	5.35	1.0 <2.0
"	011		20 ml r	5	5.40	<2.0
"	012		20 ml s	5	5.40	<2.0
" Dup	012		20 ml s	5	5.40	<2.0
CCV3		#44135	20 ml r	5	5.20	4.0
CCB3		Blank	20 ml s	5	5.40	<2.0

CALCULATION: 0.135

1. mg/L Sulfide = $\frac{[(AXB) - (CXD)] \times 16000}{mL\ Sample}$

where:
A = ml Iodine ; B = Normality of iodine;
C = ml $Na_2S_2O_3$ titrant; D = Normality of $Na_2S_2O_3$

* H_2O Final Results = Dilution Factor X Concentration

Soil Final Results = $\frac{\text{Dilution Factor x Concentration x extract volume}}{\text{wt. of sample x \% solids}}$

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1																	
2																	
3																	
4	Total Organic Carbon	AN	903093-001-06	SMP /	SW9060	5.43	1.0000	✓	5.4282	.00000000	MGL	MGL	5.4300	0	0.0000	0.00	5.4282
5	Total Organic Carbon	AN	903093-002-06	SMP /	SW9060	6.76	1.0000	✓	6.7646	.00000000	MGL	MGL	6.7600	0	0.0000	0.00	6.7646
6	Total Organic Carbon	AN	903093-003-06	SMP /	SW9060	8.73	1.0000	✓	8.7294	.00000000	MGL	MGL	8.7300	0	0.0000	0.00	8.7294
7	Total Organic Carbon	AN	903093-004-06	SMP /	SW9060	2.11	1.0000	✓	2.1107	.00000000	MGL	MGL	2.1100	0	0.0000	0.00	2.1107
8	Total Organic Carbon	AN	903093-005-06	SMP /	SW9060	3.40	1.0000	✓	3.4042	.00000000	MGL	MGL	3.4000	0	0.0000	0.00	3.4042
9	Total Organic Carbon	AN	903093-005-06	MS / S	SW9060	6.42	1.0000	✓	6.4248	.00000000	MGL	MGL	6.4200	0	3.0000	101.00	6.4248
10	Total Organic Carbon	AN	903093-006-06	SMP /	SW9060	14.4	1.0000	✓	14.3628	.00000000	MGL	MGL	14.4000	0	0.0000	0.00	14.3628
11	Total Organic Carbon	AN	903093-007-06	SMP /	SW9060	2.58	1.0000	✓	2.5835	.00000000	MGL	MGL	2.5800	0	0.0000	0.00	2.5835
12	Total Organic Carbon	AN	903093-008-07	SMP /	SW9060	5.81	1.0000	✓	5.8126	.00000000	MGL	MGL	5.8100	0	0.0000	0.00	5.8126
13	Total Organic Carbon	AN	903098-001-13	SMP /	SW9060	2.20	1.0000	✓	2.1966	.00000000	MGL	MGL	2.2000	0	0.0000	0.00	2.1966

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1																	
2																	
3																	
4	Total Organic Carbon	AN	903098-002-13	SMP /	SW9060	2.07	1.0000	✓	2.0700	.00000000	MGL	MGL	2.0700	0	0.0000	0.00	2.0700
5	Total Organic Carbon	AN	903098-002-13	MS / S	SW9060	6.08	1.0000	✓	6.0800	.00000000	MGL	MGL	6.0800	0	4.0000	-52.00	6.0800
6	Total Organic Carbon	AN	903098-003-12	SMP /	SW9060	3.00	1.0000	✓	3.0000	.00000000	MGL	MGL	3.0000	0	0.0000	0.00	3.0000
7	Total Organic Carbon	AN	903098-004-12	SMP /	SW9060	2.18	1.0000	✓	2.1800	.00000000	MGL	MGL	2.1800	0	0.0000	0.00	2.1800
8	Total Organic Carbon	AN	903098-005-12	SMP /	SW9060	1.45	1.0000	✓	1.4500	.00000000	MGL	MGL	1.4500	0	0.0000	0.00	1.4500
9	Total Organic Carbon	AN	903098-006-12	SMP /	SW9060	1.70	1.0000	✓	1.7000	.00000000	MGL	MGL	1.7000	0	0.0000	0.00	1.7000
10	Total Organic Carbon	AN	903098-007-12	SMP /	SW9060	1.54	1.0000	✓	1.5400	.00000000	MGL	MGL	1.5400	0	0.0000	0.00	1.5400
11	Total Organic Carbon	AN	903098-008-12	SMP /	SW9060	2.72	1.0000	✓	2.7200	.00000000	MGL	MGL	2.7200	0	0.0000	0.00	2.7200
12	Total Organic Carbon	AN	903098-009-12	SMP /	SW9060	5.01	1.0000	✓	5.0100	.00000000	MGL	MGL	5.0100	0	0.0000	0.00	5.0100
13	Total Organic Carbon	AN	903098-010-12	SMP /	SW9060	1.47	1.0000	✓	1.4700	.00000000	MGL	MGL	1.4700	0	0.0000	0.00	1.4700
14	Total Organic Carbon	AN	903098-011-13	SMP /	SW9060	1.67	1.0000	✓	1.6700	.00000000	MGL	MGL	1.6700	0	0.0000	0.00	1.6700
15	Total Organic Carbon	AN	903098-012-13	SMP /	SW9060	1.02	1.0000	✓	1.0200	.00000000	MGL	MGL	1.0200	0	0.0000	0.00	1.0200

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / 9060

Analyst: LL
Date: 3-26-09
Reviewed by / Date: [illegible] 3.27.09

Cont.

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
403093-005	041-166-W38-0309	20 ml	1	3.3532		
				3.4191	3.4041	3.40
				3.4025		
				3.4446		
403093-005 MS	041-166-W38-0309 +3.0		1	6.4362	6.4248	6.4
			1	6.4134		
-006	041-166-W34-0309		1	14.8231		
				14.3101	14.3628	14.4
				14.2109		
				14.1070		
#43278	(1.1)		3	10.6675	10.7	32.0
Blank	CCB3		1	0.2504	0.25	0.40
403093-007	041-166-W34-0309		1	2.6475		
				2.5747	2.5835	2.58
				2.5201		
				2.5417		
-008	041-166-W35-0309		1	5.8510		
				5.5157	5.8126	5.81
				5.7754		
				5.8077		
403095-001	041-52-LW46-0309		1	2.2670		
				2.1668	2.1966	2.20
				2.1705		
				2.1510		
#43276	CCV4		3	10.2005	10.2	30.6
Blank	CCB4	20 ml	1	0.2360	0.24	0.40

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml)}}{\text{Sample weight (g) x \% solids}}$
(If not detected, report < 1.0 mg/L)

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / 9060

Analyst: V-2. / [illegible]
Date: 3-12-09 6:40
Reviewed by / Date: JCSA 3/30/09

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
#43278	ICV	20 mL	3	~~10.1735~~	10.2	30.5
Blank	ICB		1	0.1804	0.18	<1.0
903188-001	SW-PS62-120-MW-030409		1	4.0472	4.05	4.05
-001 mD			1	3.9616	3.96	3.96
-001 MS	+5.0 mg/L		1	9.6084	9.61	9.61
903098-002	061-166-W11-0309		1	2.1484		
				~~2.0263~~	2.0743	
				2.0731	~~2.1202~~	2.07
				2.0492	@3-27-09	
~~3-27-09~~ @ #43	-002 MS	+4.0 mg/L (4 mL @ 20 mg/L + 0.25 mL Stock)		6.0445	6.0803	6.08
				6.1161		
#43278	CV1		3	10.4340	10.4	31.3
Blank	CCB1		1	0.2084	0.21	<1.0
903098-003	061-MW59-0309		1	2.9954		
				3.0161	3.0025	3.00
				3.0145		
				2.9836		
-004	061-MW46P-0309		1	2.2150		
				~~2.1698~~	2.1829	2.18
				2.1699		
				2.1768		
-005	061-166W10-0309		1	1.5084		
				1.7870	1.4475	1.45
				1.2765		
				1.2181		
#43278	CV2		3	10.1504	10.2	30.5
Blank	CCB2	20 mL	3 @ 3-27-09	0.2220	0.22	<1.0

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = (instrument reading vs.cal. Curve) x 0.040ml) / Sample weight (g) x % solids

(If not detected, report < 1.0 mg/L)

Continued →

first ICV rerun because computer date/time was off by 12 hours

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / 9060

Analyst: VZ/cw
Date: 3-27-09
Reviewed by / Date: JCSA 3/30/09

Continued

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L	Final Results mg/Kg
903098-~~005~~ 006	041-MW53-0309	20mV	1	1.7421			
				1.7085	1.6967	1.70	
				1.6776			
				1.6646			
~~005~~ 009	041-MW53P-0309		1	1.5874			
				1.5353	1.539	1.54	
				1.5402			
				1.4933			
~~004~~ 005	001-MW55-0309		1	3.0281			
				2.6576	2.7173	2.72	
				2.5980			
				2.5852			
#43278	CCV 3		3	10.2469	10.25	30.75	
BLANK	CCB 3		1	0.2402	.240	41.0	
903098-~~005~~ 008	3.27.09						
-009	001-526W62-0309		1	5.0617			
				4.9283	5.011	5.01	
				5.0141			
				4.9900			
-010	001-526W61-0309		1	~~1.7493~~ ~~4.195~~ 1.7			
				1.4145	1.4662	1.47	
				1.3797			
				1.3212			
-011			1	1.6553			
				1.6892	1.6743	1.67	
				1.6949			
				1.6778			
#43278	CCV 4		3	10.4135	10.413	31.23	

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml)}}{\text{Sample weight (g) x \% solids}}$
(If not detected, report < _____)

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / 9060

Analyst: VZ/CW
Date: 3-27-09/ 6:40
Reviewed by / Date: JCSA 3/30/09

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
BLANK	CCB4	20 mL	1	0.2397	.240	<1.0
				0.9973		
903098 - 02				1.0259	1.016	1.02
				1.0379		
				1.0032		
			3	10.2025	10.203	30.6
903278	CCV 5					
BLANK	CCB 5		1	0.2470	.250	<1.0

CW
3-27-09

Cálculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = (instrument reading vs.cal. Curve) x 0.040ml / Sample weight (g) x % solids

(If not detected, report < _____)

C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC | Client: CH2M Hill

Work-Order # 903098 | STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	4.00	4.00	100	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	4.00	4.00	100	70 - 130%

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC | Client: CH2M Hill

Work-Order # 903098 | STD Solution ID: #43278

3/26/2009

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	32.0	100	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	30.6	96	90 - 110%

3/27/2009

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	31.9	30.5	96	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	31.3	98	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	30.5	96	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	30.8	96	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	31.2	98	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV5	31.9	30.6	96	90 - 110%

Method Title: Sulfide, Titrimetric, Sodium Thiosulfate
Method Reference: MCAWW 376.1 / 9031

Analyst: CP
Date / Time: 3.18.09 / 9.15 am
Reviewed by/Date: 3-18-09

Instrument/Apparatus: Titration

Calibration:

Standardization Iodine Solution

Iodine Solution N = ml of Na2S2O3 X 0.025N / 5 ml of Iodine

	ID#	Vol. Used / ml	Normality
Sodium Thiosulfate	# 45177	5.40	0.025 N
Sodium Thiosulfate	# 45177	5.40	0.025 N
Iodine solution	# 44753	5	N 1= 0.027
Iodine solution	# 44753	5	N 2= 0.027
			Avg N = 0.027

QC Analysis

ICV Analysis

ICV ID: # 44135 (1000 ug/L)
T.V.: 4.0 ug/L
Acceptance Range: 70 - 130%
ICV 4.0 ug/L CCV1 4.4 ug/L CCV2 4.0 ug/L
% Rec: ICV 100% CCV1 110% CCV2 100%

Duplicate Analysis Acceptance Range: 15%

Sample ID #1: 903071-001
Init. Sample Value #1: <2.0 ug/L
Dup. Sample Value #1: <2.0 ug/L
RPD #1: 0

Sample ID #2: 903098-002
Init. Sample Value #2: <2.0 ug/L
Dup. Sample Value #2: <2.0 ug/L
RPD #2: 0

LCS Analysis

LCS ID: N/A
T.V.:
F.V. #1:
% R #1:

LCS ID:
T.V.:
F.V. #2:
% R #2:

Reagent:
Starch Indicator ID: # 44045
HCL ID: # 45241

Comments:

Method Title: Total Organic Carbon Analyst: V. Zamora / Ca
Method Reference: MCAWW 415.1 / SM5310C/MCAWW415.2 Date: 3-27-09 6:40
Lloyd Kahn / 9060 Reviewed by / Date: JKSA 3/30/09

Instrument/Apparatus: Pheonix 8000 - #G

Calibration:

A. 1000ppm Stock Standard Solution ID: #41761
B. 2000ppm Working Standard Solution
C. 10ppm Working Standard Solution

Calibration Curve: Calibrated 3-25-09

Std. Conc. mg/L	ml Stock Solution	F.V. ml	Instrument Reading
0		100	49421
1.0		100	1096265
2.5		100	1960234
5.0		100	3175560
10		100	6124574
15		100	9342585
20		100	12272438
		100	

Corr. Coeff: (≥ 0.9950) 0.99987
y-Intercept: 89838
Slope: 1.52844e05
System Blank: 57665

QC Analysis

QC ID: #43278
T.V.: 31.2 mg/L

Acceptance Range: 90-110 %
Found Value:
ICV 30.5 mg/L CCV1 31.3 mg/L CCV2 30.5 mg/L
% Recovery:
ICV 95.6 % CCV1 98.1 % CCV2 95.6 %

Matrix Spike Analysis:

Spike Acceptance Range: 15%
Sample ID #1 403188-001 Sample ID #2 403048-002
Sample Value #1 4.05 mg/L Sample Value #2: 2.07 mg/L
Spike Sample Value #1 9.61 mg/L #2: 6.08 mg/L
Spike Amount: 5.0 mg/L 4.0 mg/L
% Recovery #1 111 % #2: 100 %

Duplicate Analysis

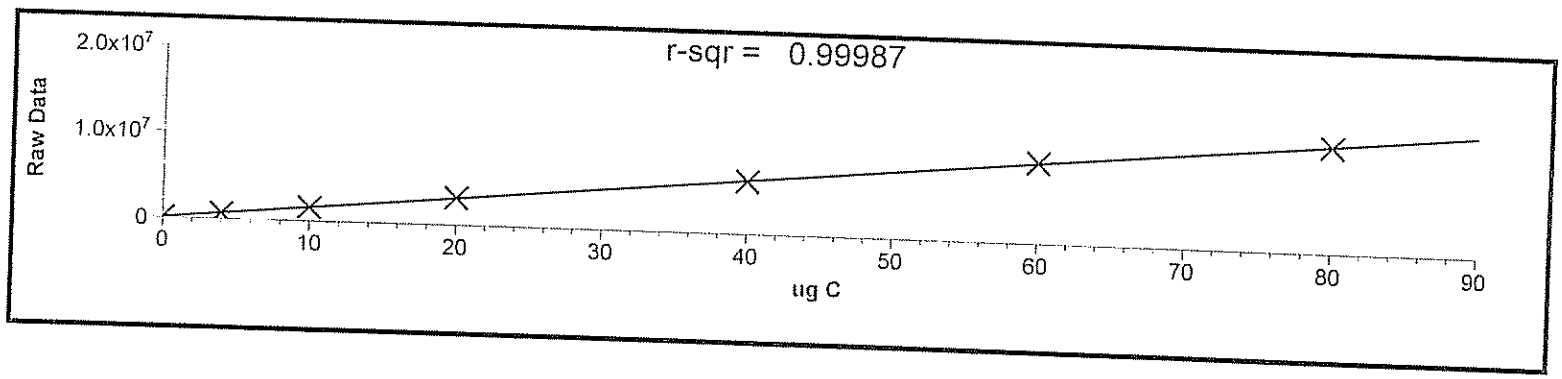
Dup Acceptance Range: 15%
Sample ID #1 / #2 403188-001 /
Init. Samp. Value #1 / #2 4.05 mg/L /
Dup. Samp. Value #1 / #2 3.96 mg/L /
RPD #1 / #2 2.2 % /

Comments:

Calibration Report Print Date/Time: 2009/03/29 11:54:13

Cal. Curve ID:	WATER LOW
Created:	02/25/2009 14:35
Calibration Factor (m):	1.528e+05
Y Intercept (b):	89838
r-squared:	0.99987

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
Blank	99421	0.000	0.063		02/25/2009 13:25
1ppm	696265	4.000	3.970		02/25/2009 13:32
2.5ppm	1601749	10.000	9.897		02/25/2009 13:39
5ppm	3175560	20.000	20.200		02/25/2009 13:46
10ppm	6124574	40.000	39.505		02/25/2009 13:54
20ppm	12272438	80.000	79.750		02/25/2009 14:16
15ppm	9349585	60.000	60.616		02/25/2009 14:34



D. Raw QC Data
(as applicable)

1. Blank Data

2. Matrix Spike/Duplicate Data

3. Laboratory Control Standard Data

5. Extraction Logsheet

6. Injection Logsheet

7. Percent Solids

Multiple Analysis Report Print Date/Time: 2009/03/26 4:52:34

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
43278	11.0325			TOC	
ICB	0.2374			TOC	
903176-001	3.0578			TOC	
903176-001MD	2.9333	..	...	TOC	..
~~903176-001MS~~	~~6.5283~~			~~TOC~~	
903176-002	2.1841			TOC	
903176-002MS	4.2943	..	...	TOC	..
903093-001	5.4282	0.0642	1.18	TOC	
43278	10.9678			TOC	
CCB1	0.3075	..	...	TOC	..
903093-002	6.7646	0.0907	1.34	TOC	
903093-003	8.7294	0.4396	5.04	TOC	
903093-004	2.1107	0.0629	2.98	TOC	..
43278	11.0143			TOC	
CCB2	0.2525			TOC	
903093-005	3.4042	0.0375	1.10	TOC	..
903093-005MS	6.4248	0.0161	0.25	TOC	
903093-006	14.3628	0.3179	2.21	TOC	
43278	10.6678	..	...	TOC	..
CCB3	0.2504			TOC	
903093-007	2.5835	0.0451	1.75	TOC	
903093-008	5.8126	0.0308	0.53	TOC	..
903098-001	2.1966	0.0474	2.16	TOC	
43278	10.2008			TOC	
CCB4	0.2360	..	...	TOC	..

Detailed Analysis Report Print Date/Time: 2009/03/30 13:09:46

Sample ID: 43278 | Mode: TOC
Method: TOC Range 0.1 - 20 ppm C | Filename: 03270647
Cal. Curve: WATER LOW | Timestamp: 03/27/2009 06:54
Operator ID: VZ | Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.1735	40.6938	6306232	10.882	11.882	133

Sample ID: ICB | Mode: TOC
Method: TOC Range 0.1 - 20 ppm C | Filename: 03270655
Cal. Curve: WATER LOW | Timestamp: 03/27/2009 07:00
Operator ID: VZ | Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1804	0.7216	167902	10.934	11.934	51

Sample ID: 903098-002 | Mode: TOC
Method: TOC Range 0.1 - 20 ppm C | Filename: 03270750
Cal. Curve: WATER LOW | Timestamp: 03/27/2009 08:13
Operator ID: VZ | Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1484	8.5937	1370438	10.703	11.702	76
2	2.0263	8.1052	1295825	10.688	11.683	74
3	2.0731	8.2924	1324409	10.754	11.750	72
4	2.0492	8.1968	1309814	10.734	11.729	72

<<<Statistics>>> Mean: 2.0742 Std Dev: 0.0530 RSD: 2.56

Sample ID: 903098-002MS | Mode: TOC
Method: TOC Range 0.1 - 20 ppm C | Filename: 03270814
Cal. Curve: WATER LOW | Timestamp: 03/27/2009 08:25
Operator ID: VZ | Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.0445	24.1778	3751075	10.775	11.771	87
2	6.1161	24.4643	3794832	10.826	11.824	87

<<<Statistics>>> Mean: 6.0803 Std Dev: 0.0506 RSD: 0.83

Sample ID: 43278 | Mode: TOC
Method: TOC Range 0.1 - 20 ppm C | Filename: 03270826
Cal. Curve: WATER LOW | Timestamp: 03/27/2009 08:32
Operator ID: VZ | Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.4340	41.7358	6465410	10.939	11.937	103

Sample ID: CCB1 | Mode: TOC

Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Filename: 03270835
Timestamp: 03/27/2009 08:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2084	0.8335	185000	11.010	12.007	52

Sample ID: CCB1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03270835
Timestamp: 03/27/2009 08:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2084	0.8335	185000	11.010	12.007	52

Sample ID: 903098-003
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03270844
Timestamp: 03/27/2009 09:07
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.9956	11.9823	1888081	11.086	12.085	85
2	3.0161	12.0644	1900631	11.127	12.125	86
3	3.0148	12.0591	1899817	11.131	12.128	83
4	2.9836	11.9342	1880744	11.161	12.160	87

<<<Statistics>>> Mean: 3.0025 Std Dev: 0.0157 RSD: 0.52

Sample ID: 903098-004
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03270911
Timestamp: 03/27/2009 09:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.2150	8.8599	1411110	11.124	12.118	76
2	2.1698	8.6790	1383479	11.189	12.184	75
3	2.1699	8.6794	1383541	11.187	12.187	73
4	2.1768	8.7073	1387798	11.214	12.209	74

<<<Statistics>>> Mean: 2.1829 Std Dev: 0.0217 RSD: 0.99

Sample ID: 903098-005
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03270945
Timestamp: 03/27/2009 10:10
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.5084	6.0335	979348	11.211	12.210	91
2	1.7870	7.1478	1149572	11.338	12.338	205
3	1.2765	5.1061	837669	11.706	12.704	77
4	1.2181	4.8723	801962	11.612	12.612	72

<<<Statistics>>> Mean: 1.4475 Std Dev: 0.2587 RSD: 17.87

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03271010
Timestamp: 03/27/2009 10:17
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.1504	40.6017	6292164	11.618	12.617	141

Sample ID: CCB2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03271039
Timestamp: 03/27/2009 10:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2220	0.8878	193295	11.679	12.677	55

Sample ID: 903098-006
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03271048
Timestamp: 03/27/2009 11:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.7421	6.9686	1122191	11.802	12.802	78
2	1.7085	6.8341	1101652	11.876	12.873	80
3	1.6716	6.6862	1079055	11.989	12.986	87
4	1.6646	6.6584	1074808	11.987	12.985	146
<<<Statistics>>>	Mean:	1.6967	Std Dev:	0.0359	RSD: 2.11	

Sample ID: 903098-007
Mode: TOC
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Filename: 03271117
Timestamp: 03/27/2009 11:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.5874	6.3495	1027625	11.960	12.957	141
2	1.5353	6.1411	995785	11.978	12.976	152
3	1.5402	6.1607	998771	11.905	12.901	164
4	1.4933	5.9734	970165	11.773	12.771	166
<<<Statistics>>>	Mean:	1.5390	Std Dev:	0.0385	RSD: 2.50	

Sample ID: 903098-008
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03271218
Timestamp: 03/27/2009 12:53
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.0281	12.1125	1907980	11.324	12.323	261
2	2.6576	10.6306	1681594	11.380	12.378	259
3	2.5980	10.3921	1645166	11.299	12.296	263

4	2.5856	10.3424	1637568	11.260	12.259	261

<<<Statistics>>> Mean: 2.7173 Std Dev: 0.2096 RSD: 7.71

Detailed Analysis Report Print Date/Time: 2009/03/28 9:47:48

Sample ID: 43278 | Mode: TOC
Method: TOC Range 0.1 - 20 ppm C | Filename: 03271347
Cal. Curve: WATER LOW | Timestamp: 03/27/2009 13:53
Operator ID: VZ | Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2469	40.9876	6351105	3.523	4.522	140

Sample ID: CCB3 | Mode: TOC
Method: TOC Range 0.1 - 20 ppm C | Filename: 03271354
Cal. Curve: WATER LOW | Timestamp: 03/27/2009 13:59
Operator ID: VZ | Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2402	0.9608	204434	3.248	4.242	54

Sample ID: 903098-009 | Mode: TOC
Method: TOC Range 0.1 - 20 ppm C | Filename: 03271447
Cal. Curve: WATER LOW | Timestamp: 03/27/2009 15:12
Operator ID: VZ | Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.0617	20.2469	3150583	3.234	4.232	116
2	4.9783	19.9132	3099607	3.277	4.276	100
3	5.0141	20.0562	3121457	3.416	4.413	100
4	4.9900	19.9602	3106789	3.321	4.318	104

<<<Statistics>>> Mean: 5.0110 Std Dev: 0.0369 RSD: 0.74

Sample ID: 903098-010 | Mode: TOC
Method: TOC Range 0.1 - 20 ppm C | Filename: 03271512
Cal. Curve: WATER LOW | Timestamp: 03/27/2009 15:35
Operator ID: VZ | Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

				Baseline	Baseline	Time
1	1.7493	6.9971	1126551	3.324	4.323	85
2	1.4145	5.6581	922000	3.240	4.235	73
3	1.3797	5.5189	900735	3.174	4.173	71
4	1.3212	5.2849	864991	3.074	4.071	70

<<<Statistics>>> Mean: 1.4662 Std Dev: 0.1926 RSD: 13.14

Sample ID: 903098-011
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03271536
Timestamp: 03/27/2009 15:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6553	6.6213	1069141	2.992	3.986	75
2	1.6692	6.6767	1077594	2.934	3.930	75
3	1.6949	6.7797	1093336	2.895	3.893	81
4	1.6778	6.7110	1082848	2.846	3.840	72

<<<Statistics>>> Mean: 1.6743 Std Dev: 0.0166 RSD: 0.99

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03271628
Timestamp: 03/27/2009 16:35
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.4135	41.6541	6452916	2.520	3.519	136

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03271708
Timestamp: 03/27/2009 17:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2397	0.9588	204137	2.163	3.160	55

Sample ID: 903098-012
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03271716
Timestamp: 03/27/2009 17:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.9973	3.9893	667076	2.185	3.182	70
2	1.0259	4.1037	684544	2.211	3.211	69
3	1.0379	4.1517	691889	2.243	3.241	68
4	1.0032	4.0127	670652	2.189	3.188	66

<<<Statistics>>> Mean: 1.0161 Std Dev: 0.0191 RSD: 1.88

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03271751
Timestamp: 03/27/2009 17:58
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2025	40.8101	6323993	2.016	3.013	179

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: VZ

Mode: TOC
Filename: 03271850
Timestamp: 03/27/2009 18:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2470	0.9881	208608	2.119	3.119	55

GPL Laboratories

Work Order Approval

Work Order #: 903098
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-17-2009
Fax Due Date: Mar-31-2009
HC Due Date: Mar-31-2009
EDD Due Date Mar-31-2009

APPROVED

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

Contact: Emma Brower
Phone: 7033765082
Fax: 7033765582
E-Mail:

Comments: Level 4 Data Package
SNEDD EDD
ALL METHODS MUST MEET QSM VERSION 3 GUIDELINES.
For TOC Analysis CH2M Hill requests quadruplicate results on form 1's, and average result in EDD.

VOLATILES: Samples 001, 002, 004, and 009 expect high VOC concentrations.

Lab ID : 903098-001 Field ID : OU1-52GW46-0309 Date Collected : 16-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903098-002 Field ID : OU1-16GW11-0309 Date Collected : 16-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	24	A1-4	HC	28D	(Use for QC)
GCFID Analysis of hydrocarbon gases	W	24	A1-4	HC	28D	(Use for QC) (On Hold/Spare)
Inorganic Anions by EPA 300	W	24	A-12D	COOL	7D	(Use for QC)
Inorganic Anions by EPA 300	W	24	A-12D	COOL	7D	(Use for QC) (On Hold/Spare)
Sulfide by EPA 376.1	W	24	A-12D	SAPC	7D	(Use for QC)
Sulfide by EPA 376.1	W	24	A-12D	SAPC	7D	(Use for QC) (On Hold/Spare)
Total Organic Carbon	W	24	A-12D	SCPH2	7D	(Use for QC)
Total Organic Carbon	W	24	A-12D	SCPH2	7D	(Use for QC) (On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	24	A1-4	HC	21D	(Use for QC)
VOC by Method SW-846 using 25 ML Purge	W	24	A1-4	HC	21D	(Use for QC) (On Hold/Spare)

Lab ID : 903098-003 Field ID : OU1-MW59-0309 Date Collected : 16-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Approved By: _____ **Date and Time Approved :** 3-17-09

GPL Laboratories

Work Order Approval

Work Order #: 903098
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-17-2009
Fax Due Date: Mar-31-2009
HC Due Date: Mar-31-2009
EDD Due Date Mar-31-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903098-004 Field ID : OU1-52GW46P-0309 Date Collected : 16-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903098-005 Field ID : OU1-16GW10-0309 Date Collected : 15-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903098-006 Field ID : OU1-MW53-0309 Date Collected : 15-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903098-007 Field ID : OU1-MW53P-0309 Date Collected : 15-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

Work Order #: 903098
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-17-2009
Fax Due Date: Mar-31-2009
HC Due Date: Mar-31-2009
EDD Due Date Mar-31-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903098-008 Field ID : OU1-MW55-0309 Date Collected : 15-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903098-009 Field ID : OU1-52GW62-0309 Date Collected : 16-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	7	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	7	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	7		COOL	7D	
Sulfide by EPA 376.1	W	7	A-12D	SAPC	7D	
Total Organic Carbon	W	7	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	7	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	7	A1-4	HC	21D	

Lab ID : 903098-010 Field ID : OU1-52GW61-0309 Date Collected : 16-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Lab ID : 903098-011 Field ID : OU1-N4GW07-0309 Date Collected : 16-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-4	HC	28D	
Inorganic Anions by EPA 300	W	8	A-12D	COOL	7D	
Sulfide by EPA 376.1	W	8	A-12D	SAPC	7D	
Total Organic Carbon	W	8	A-12D	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-4	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

GPL Laboratories

Work Order Approval

Work Order #: 903098
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-17-2009
Fax Due Date: Mar-31-2009
HC Due Date: Mar-31-2009
EDD Due Date Mar-31-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903098-012 Field ID : OU1-N4GW09-0309 Date Collected : 16-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	24	A1-4	HC	28D	(Use for QC)
GCFID Analysis of hydrocarbon gases	W	24	A1-4	HC	28D	(Use for QC) (On Hold/Spare)
Inorganic Anions by EPA 300	W	24	A-12D	COOL	7D	(Use for QC)
Inorganic Anions by EPA 300	W	24	A-12D	COOL	7D	(Use for QC) (On Hold/Spare)
Sulfide by EPA 376.1	W	24	A-12D	SAPC	7D	(Use for QC)
Sulfide by EPA 376.1	W	24	A-12D	SAPC	7D	(Use for QC) (On Hold/Spare)
Total Organic Carbon	W	24	A-12D	SCPH2	7D	(Use for QC)
Total Organic Carbon	W	24	A-12D	SCPH2	7D	(Use for QC) (On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	24	A1-4	HC	21D	(Use for QC)
VOC by Method SW-846 using 25 ML Purge	W	24	A1-4	HC	21D	(Use for QC) (On Hold/Spare)

Lab ID : 903098-013 Field ID : OU1-TB08-0309 Date Collected : 16-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
VOC by Method SW-846 using 25 ML Purge	W	3	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-4	HC	21D	

Lab ID : 903098-014 Field ID : OU1-TB09-0309 Date Collected : 16-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
VOC by Method SW-846 using 25 ML Purge	W	3	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-4	HC	21D	

Lab ID : 903098-015 Field ID : OU1-TB10-0309 Date Collected : 15-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
VOC by Method SW-846 using 25 ML Purge	W	3	A1-4	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-4	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

CTO 59

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Contract #/Billing Reference: Nitrate and Nitrite are 48 hours; Sulfate is 28 days

Project: Groundwater Sampling Event at OU1 MCAS Cherry Point

Client: CH2M Hill

Send Results To: Bill Hannah

Address: 5700 Cleveland St. Suite 101
Virginia Beach, Va. 23462

Phone: 757-671-6277

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	Turnaround Time	14 days	See Above	7 days	14 days	28 days	Lab Cooler No.	CLIENT COMMENTS
					# of Containers	3	1	1	2	1		
					Container Type	VOA	8oz Plastic	8oz Plastic	VOA	8oz Glass		
					Preservative Used	HCL	None	NaOH	HCL	H2SO4		
					Type of Analysis	SW846 8260B (VOCs)	EPA 300.0 (Nitrate, Nitrite, Chloride)	EPA 376.1 (Sulfide)	RSK-175 (Methane, Ethane, Ethene)	SW846 9060 (Total Organic Carbon)		
OU1-52GW46-0309	3/16/09	11:00	Water	DM		3	1	1	2	1		
OU1-46GW11-0309	3/16/09	9:45	Water	DM		9	3	3	6	3		MS/MSD taken here
OU1-MW59-0309	3/16/09	12:30	Water	DM		3	1	1	2	1		
OU1-52GW46P-0309	3/16/09	—	Water	DM		3	1	1	2	1		QA/QC
OU1-46GW10-0309	3/15/09	14:00	Water	DM		3	1	1	2	1		
OU1-MW53-0309	3/15/09	11:50	Water	DM		3	1	1	2	1		
OU1-MW53P-0309	3/15/09	—	Water	DM		3	1	1	2	1		QA/QC
OU1-MW55-0309	3/15/09	15:15	Water	DM		3	1	1	2	1		
OU1-52GW62-0309	3/16/09	11:02	Water	AM/KB		3	1	1	2	1		
OU1-52GW61-0309	3/16/09	17:00	Water	AM/KB		3	1	1	2	1		
OU1-N4GW07-0309	3/16/09	12:02	Water	AM/KB		3	1	1	2	1		
OU1-N4GW09-0309	3/16/09	10:57	Water	AM/KB		9	3	3	6	3		MS/MSD taken here

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Dave Miller	3/16/09 18:00			Walter Bell	3/17/09 9:40
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
Relinquished By:	Date/Time	Received By:	Lab Comments:		Temp:
					3°

G.P. W.O. 903098

CTO 59

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Contract #/Billing Reference

2 of 2 Pgs.

Project: Groundwater Sampling Event of OU1 MCAS Cherry Point

Client: CH2MHill

Send Results To: Bill Hannah

Address: 5700 Cleveland St. Suite 101

Virginia Beach, Va 23462

Phone: 757-671-6277

Turnaround Time: 14 days

# of Containers: 3

Container Type: VOA

Preservative Used: NONE HCL (SM)

Type of Analysis: SW846 8260B (VOCs)

Lab Cooler No.

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	SW846 8260B (VOCs)										CLIENT COMMENTS
OU1-TB08-0309	3/16/09	—	Water	DM	3										QA/QC
OU1-TB09-0309	3/16/09	—	Water	DM	3										QA/QC
OU1-TB10-0309	03/15/09	—	Water	DM	3										QA/QC

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Dana McClain	3/16/09 18:00			Walter Burk	3/17/09 9:40
Relinquished By:	Date/Time	Received By:	Date/Time / Shipper:	Airbill No.:	
Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp: 3°	

G.P. W.O. 903098

Corrections to COCs

TO: Garth Herdrich

COPIES: File
EDD
Laboratory Package Multiple SDGs

FROM: Kyle Block
EIS
CH2M HILL

DATE: March 24, 2009

This memo is to document corrections made to entries on the Chains of Custody (COC) and Lab Logins for Cherry Point CTO-059.

The SDG 903062 had the sample below incorrectly labeled on the Lab Login. Please make the appropriate change changes to all deliverables.

Change Sample ID to this:	Incorrectly labeled ID:	Date Sample	Time Sample
OU1-MW50-0309	OU1-MW5D-0309	3/10/2009	12:05

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Additionally the below samples did not have sample times correlating to the sample on the COCs. Please add the **times** and make the appropriate changes to the COC and make appropriate changes to all deliverables.

Sample ID	Date Sample	Time Sample	SDG
OU1-TB01-0309	3/10/2009	6:50	903062
OU1-TB02-0309	3/11/2009	18:00	903069
OU1-TB03-0309	3/11/2009	18:02	903069
OU1-TB04-0309	3/11/2009	18:04	903069
OU1-TB05-0309	3/12/2009	17:15	903071
OU1-TB06-0309	3/13/2009	17:10	903093
OU1-TB07-0309	3/13/2009	17:12	903093
OU1-TB08-0309	3/16/2009	17:55	903098
OU1-TB09-0309	3/16/2009	17:57	903098
OU1-TB10-0309	3/16/2009	17:59	903098
OU1-TB11-0309	3/17/2009	17:55	903125
OU1-TB12-0309	3/17/2009	17:57	903125
OU1-TB13-0309	3/17/2009	17:59	903125
OU1-TB14-0309	3/18/2009	17:55	903124
OU1-TB15-0309	3/18/2009	17:57	903124
OU1-MW53P-0309	3/15/2009	15:20	903098
OU1-52GW46P-0309	3/16/2009	11:02	903098

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FedEx Express US Airbill

8656 2056 4057

0200

FedEx Retrieval Copy

1 From

Date

Sender's FedEx Account Number

Sender's Name

Phone

Company

Address

City

State

ZIP

Dept/Floor/Suite/Room

2 Your Internal Billing Reference

3 To

Recipient's Name

Phone

Company

Recipient's Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here

City

State

ZIP

4a Express Package Service

Packages up to 150 lbs.

1 [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To select locations.

4b Express Freight Service

Packages over 150 lbs.

7 [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation.

** To select locations.

5 Packaging

6 [ ] FedEx Envelope* 2 [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 [ ] FedEx Box 4 [ ] FedEx Tube 5 [ ] Other

* Declared value limit $500

6 Special Handling — Includes FedEx address in Section 3.

3 [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

1 [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.

31 [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day. To select locations.

Does this shipment contain dangerous goods? One box must be checked.

[ ] No 4 [ ] Yes — As per attached Shipper's Declaration

[ ] Yes — Shipper's Declaration not required

6 [ ] Dry Ice — Dry Ice, 9, UN 1845 x kg

[ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment — Bill to: Enter FedEx Acct. No. or Credit Card No. below

1 [ ] Sender — Acct. No. in Section 1 will be billed.

2 [ ] Recipient

3 [X] Third Party

4 [ ] Credit Card

5 [ ] Cash/Check

Obtain Recip Acct. No.

Total Packages

Total Weight

Credit Card Auth

Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options — If you require a signature, check Direct or Indirect.

[ ] No Signature Required — Package may be left without obtaining a signature for delivery.

10 [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

34 [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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8656 2056 4057

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FedEx Express US Airbill

8656 2056 4046

0200

FedEx Retrieval Copy

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From

Date 2/11/05

Sender's FedEx Account Number

Sender's Name [illegible] Phone [illegible]

Company [illegible]

Address [illegible]

Dept./Floor/Suite/Room

City [illegible] State [illegible] ZIP [illegible]

2 Your Internal Billing Reference

3 To

Recipient's Name [illegible] Phone [illegible]

Company [illegible]

Recipient's Address [illegible]

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

For FedEx to hold a package for pickup at a specific FedEx location, print FedEx address here.

City [illegible] State [illegible] ZIP [illegible]

8656 2056 4046

4a Express Package Service — Packages up to 150 lbs.

1 ☒ FedEx Priority Overnight — Next business morning.* Saturday Delivery NOT available.

5 ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 ☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

*Call for Confirmation. *Money-back guarantee.

4b Express Freight Service — Packages over 150 lbs.

7 ☐ FedEx 1Day Freight* — Next business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 ☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

*Call for Confirmation. **Express delivery.

5 Packaging

6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☐ Other

*Declared value limit $500

6 Special Handling — Include FedEx address in Section 3.

3 ☐ SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

1 ☐ HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.

31 ☐ HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

1 ☐ No 4 ☐ Yes — As per attached Shipper's Declaration 5 ☐ Yes — Shipper's Declaration not required 6 ☐ Dry Ice — Dry ice, UN 1845, x kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. ☐ Cargo Aircraft Only

7 Payment Bill to: — Enter FedEx Acct. No. or Credit Card No. below. — Obtain Recip Acct. No. ☐

1 ☐ Sender — Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☒ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages: 1 Total Weight: 125

Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options — If you require a signature, check a box in this section.

1 ☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

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FedEx US Airbill

8689 0120 8657

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0200

FedEx Retrieval Copy

1 From

Date

Sender's FedEx Account Number

Sender's Phone

Phone

Company

Address

City

State

ZIP

Department/Floor/Suite/Room

2 Your Internal Billing Reference

3 To

Recipient's Phone

Phone

Company

Recipient's Address

Address

City

State

ZIP

Department/Floor/Suite/Room

4a Express Package Service

Packages up to 150 lbs.

1 FedEx Priority Overnight

2 FedEx Standard Overnight

3 FedEx First Overnight

4 FedEx 2Day

5 FedEx Express Saver

Packages over 150 lbs.

6 FedEx 1Day Freight

7 FedEx 2Day Freight

4b Express Freight Service

8 FedEx 1Day Freight

9 FedEx 2Day Freight

5 Packaging

1 FedEx Envelope

2 FedEx Pak

3 FedEx Box

4 FedEx Tube

5 Other

6 Special Handling

SATURDAY Delivery

HOLD Weekday

HOLD Saturday

Does this shipment contain dangerous goods?

No

Yes

Shipper's Declaration not required

Dry Ice

Cargo Aircraft Only

7 Payment Bill to:

Sender

Recipient

Third Party

Credit Card

Cash/Check

Total Packages

Total Weight

Total Declared Value

8 Residential Delivery Signature Options

No Signature

Direct Signature

Indirect Signature

Required

Adult Signature

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GPL Laboratories, LLLP

Figure 3

Sample Preservation Check Documentation Form

Work Order: 903098

Parameter: / Preservative: / pH Value	Metals (*A) HNO3 <2	Phenol H2SO4 <2	TPH O&G H2SO4 <2	Classical Parameters H2SO4 <2	Cyanide NaOH >12	Sulfide NaOH >9	Radiology (*B) HNO3 <2	Other Preservatio Adjustment	Reagent Lot #	see checklist for comments
GPL ID										
OU1-526W46-0309				✓		✓		Y / N		
OU1-166W11-0309				✓		✓		Y / N		
OU1-MW59-0309				✓		✓		Y / N		
OU1-526W46P-0309				✓		✓		Y / N		
OU1-16W1D-0309				✓		✓		Y / N		
OU1-MW53-0309				✓		✓		Y / N		
OU1-MW53P-0309				✓		✓		Y / N		
OU1-MW55-0309				✓		✓		Y / N		
OU1-526W62-0309				✓		✓		Y / N		
OU1-526W61-0309				✓		✓		Y / N		
OU1-N46W07-0309				✓		✓		Y / N		
OU1-N46W09-0309				✓		✓		Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
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								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		

(*A). If drinking water metals sample is acidified in the laboratory, the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.

(*B). If Radiochemistry sample is acidified in the laboratory, the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement. Tritium analysis should NOT be preserved.

Sample Preservation Check Performed By: Pat

Date: 3-17-09

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903098
Client Name: CH2M Hill
Date Received: 3-17-09
Time Received: 9:40
Received By: walk

Carrier Name: Fed ex
Prepared (Logged In) By: PM 3-17-09
Project:
Site:
VOA Holding Blank ID No:

	YES	NO
Airbill/Manifest Present? No: 8656 2056 4046	/	
Shipping Container in Good Condition?	/	
Custody Seals Present on Shipping Container?	/	
Condition: Good / Broken		
Chain of Custody Present?	/	
Chain of Custody Agrees with Sample Labels?	/	
Chain of Custody Signed?	/	
Packing Present in Shipping Container?	/	
Type of Packing bubble wrap		
Custody Seals on Sample Bottles?	/	
Condition: Good / Broken		
Total Number of Sample Bottles 137	/	
Total Number of Samples 45 PM 16	/	
Samples Intact?	/	
Sufficient Sample Volume for Indicated Test?	/	

	YES	NO
Trip Blanks Received?	/	
No. of Sets 2		
VOA Vials Have Zero Headspace?	/	
Preservatives Added to Sample?	/	
pH Check Required?	/	
Performed By: PM		
Ice Present in Shipping Container?	/	

Container #	Temperature
3	3°

Project Manager Contacted?
Name: Garth
Date Contacted: 3-17-09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: ~~Sample OU1-S26W62 1 bottle of Anions were not sent~~ ~~different sample ID # is OU1-N26W17-0309~~ SAMPLE ID CORRECTED BY FIELD CREW. -GARTH H.

Checklist Completed By: Pat
Date: 3-17-09

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903098

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Fifteen water samples were received on 03/17/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soi are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Fifteen water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
All surrogate recoveries were within the QC limits.
The laboratory control sample analyzed on 3/26/2009 exhibited high internal standard responses due to a bad purge. Since the matrix spike and matrix spike duplicate analyzed along with this sequence exhibited spike recoveries within the QC limits, no further corrective action was taken. All other internal standard responses were within the QC limits.
Two matrix spikes and two matrix spike duplicates were analyzed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. Fo sample OU1-16GW11-0309, all of the RPDs were within the RPD QC limits, and eighteen spike recoveries, out of one hundred forty, were outside of the QC limits. For sample OU1-N4GW09-0309, the RPDs of thirty-six compounds, out of seventy, were outside of the RPD QC limits, and thirty-nine spike recoveries, out of one hundred forty, were outside of the QC limits.
A laboratory control sample was analyzed along with the sample batches. BKS108893 had thirty-eight spike recoveries outside of the QC limits. BKS108905 had two spike recoveries outside of the QC limits. BKS108899 had three spike recoveries within the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrate compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

3/31/09

IC Analysis

Twelve water samples were analyzed for Chloride, Nitrate-Nitrogen, and Nitrite-Nitrogen by EPA method 300.0.

Duplicate and matrix spike analyses were performed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. Percent recove of Nitrate was very slightly above trhe QC limits in both LCSs. Recovery of Nitrite was also above the QC limits in both MSs du to an interferring peak in the matrix.

A laboratory control sample was analyzed along with each batch. All recoveries were within QC limits.

All other QC criteria were met.

General Chemistry

Work Order: 903098 Method: 8260

Volatiles Package Review Checklist

Case Narrative

	Analyst	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.	✓	
2. All nonconformances and corrective action must be mentioned and explained.	✓	
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	
4. If reanalyses were performed, one analysis must be designated to report results.	✓	

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	
2. Double-check spike amounts for the LCS and MS/MSD.	✓	
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	
4. A form 5 for the initial calibration must be provided.	/	

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	
Raw Conc. x (5/mass) / 1 – (%moisture/100) *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	/	

Work Order: 903098 Method: 8260

3. Column name & ID are properly labeled.	✓	
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{\text{10mL of MeOH}}{\text{grams of soil}} \times \frac{\text{5mL Purge Volume}}{\text{mL of Extract Spiked}}$	✓	
5. All analyte recoveries over the calibration limit are flagged "E".	✓	
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	✓	
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	✓	

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	
2. All continuing calibrations used to analyze the samples are included.	✓	
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	✓	
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	
4. Injection Logbook copies must be provided for all analysis sequences.	✓	
5. If TCLP, a copy of the Extraction Log must be provided.	✓	
6. If Encore samples, a copy of the Sample Weight Log must be provided.	✓	

Analyst Signature: Am Date: 3/31/09

Reviewer Signature: _____ Date: _____

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903098

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Fifteen water samples were received on 03/17/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

IC Analysis

Twelve water samples were analyzed for Chloride, Nitrate-Nitrogen, and Nitrite-Nitrogen by EPA method 300.0.

Duplicate and matrix spike analyses were performed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. Percent recover of Nitrate was very slightly above trhe QC limits in both LCSs. Recovery of Nitrite was also above the QC limits in both MSs due to an interferring peak in the matrix.

A laboratory control sample was analyzed along with each batch. All recoveries were within QC limits.

All other QC criteria were met. JCSA 3/30/09

General Chemistry

Twelve water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. All QC criteria were met.

Twelve water samples were analyzed for Total Organic Carbon using EPA method 9060A. Samples were run in quadruplicate, thus no duplicate analysis was performed. Matrix spike analysis was performed on sample OU1-16GW11-0309. All QC criteria were met.

GPL LABORATORIES, LLLP

IC CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903098

PARAMETER: XSA

		CRITERIA MET YES	NO	NA
EXTRACTION HOLDING TIMES				✓
ANALYSIS HOLDING TIMES		✓		
CALIBRATION CURVE IF NO,		✓		
INITIAL CALIBRATION IF NO,		✓		
CONTINUING CALIBRATION		✓		
RETENTION TIME		✓		
METHOD BLANK		✓		
MS/MSD RECOVERIES IF NO	* See narrative		✓*	
DUP RECOVERIES		✓		
LCS RECOVERIES		✓		
CALCULATION CHECK		✓		
Is the peak integration in all initial and continuing calibrations as well as each chromatogram, conducted correctly, and in accordance with good laboratory practices and the GPL policies, SOPs and QA manual? IF" NO", the affected chromatograms must be immediately reviewed and re-integrated by the Lab Director and the QA manager,prior to their final release.		✓		
Has the manual integration been signed off on (initialled and dated)?		✓		
WAS IMPORTATION INTO LIMS CORRECT?		✓		JSA Initials

ADDITIONAL COMMENTS

SIGNATURE J A DATE 3/30/09

REVIEWED BY _____ DATE _____

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903098

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Fifteen water samples were received on 03/17/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

General Chemistry

Twelve water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on samples OU1-16GW11-0309 and OU1-N4GW09-0309. All QC criteria were met.

Twelve water samples were analyzed for Total Organic Carbon using EPA method 9060A. Samples were run in quadruplicate, thus no duplicate analysis was performed. Matrix spike analysis was performed on sample OU1-16GW11-0309. All QC criteria were met.

JCSA 3/30/09

GPL LABORATORIES, LLP

WET CHEM CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903098

PARAMETER: 376.1 / 9060A

	CRITERIA MET YES	NO	NA
HOLDING TIMES	✓	—	—
METHOD BLANK	✓	—	—
CALIBRATION CURVE	✓	—	—
IF NO,			
INITIAL CALIBRATION	✓	—	—
IF NO,			
CONTINUING CALIBRATION	✓	—	—
IF NO,			
MATRIX SPIKE RECOVERIES	✓	—	—
COMMENTS			
DUP RECOVERIES	✓	—	—
LCS RECOVERIES	—	—	✓
CALCULATION CHECK	✓	—	—
ADDITIONAL COMMENTS			

SIGNATURE _____ DATE 3.30.09

REVIEWED BY _____ DATE 3/30/09

Analytical Report For 903124

for

CH2M Hill Inc

Project Manager: Emma Brower

Project Name: CTO-059 386383.FI.FQ.FQ

GPL Laboratories

GPL Laboratories, LLLP certifies that the test results meet all requirements of the NELAC Standards unless otherwise noted.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Thirteen water samples were received on 03/19/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Thirteen water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.

Sample OU1-52GW58-0309 was diluted to fit the results within the instrument calibration.
All surrogate recoveries and internal standard responses were within the QC limits.

A matrix spike and matrix spike duplicate were shared from work order 903192. The RPDs of three compounds out of forty-eight, were outside of the RPD QC limits, and twenty-seven spike recoveries out of ninety-six, were outside of the QC limits.

A laboratory control sample was analyzed along with the sample batches. BKS108871 had two spike recoveries outside of the QC limits. BKS108876 had five spike recoveries outside of the QC limits. BKS108880 had four spike recoveries outside of the QC limits.

Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Eleven water samples were analyzed for Chloride, Nitrite as Nitrogen, and Nitrate as Nitrogen by EPA method 300.0

Matrix spike and duplicate analyses were performed on samples OU1-52GW47-0309 and OU1-52GW71-0309. Percent recoverie for Chloride were above the QC limits in both Matrix Spike analyses. Since
Chloride had recovery within the QC limits in the laboratory control sample, no corrective action was taken.

Percent recovery for Nitrate as Nitrogen was slightly below the QC limits in the Matrix Spike analysis of sample OU1-52GW47-0309. Since Nitrate as Nitrogen had recovery within the QC limits in the laboratory control sample, no corrective action was taken.

Due to matrix interference, percent recovery of Nitrite as Nitrogen was above the QC limits in sample OU1-52GW71-0309. Since Nitrite as Nitrogen was not recovered in any client samples and recovery for Nitrite as Nitrogen was within the QC limits in the laboratory control sample, no corrective action was taken.

All other QC criteria were met.

A laboratory control sample was analyzed along with the batch. All QC criteria were met.

In CCVH4 (run on 3/18/09), percent recovery for Nitrate as Nitrogen is slightly above the QC limits. Since Nitrate as Nitrogen was not reported from the high curve, no corrective action was taken.

All other QC criteria were met.

General Chemistry

Eleven water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on sample OU1-52GW47-0309. All QC criteria were met.

Eleven water samples were analyzed for Total Organic Carbon using EPA method 9060A. Samples were run in quadruplicate, thus no duplicate analysis was performed. Matrix spike analysis was peformed on samples OU1-52GW47-0309 and OU1-52GW38-0309. All QC criteria were met.

Other Analysis

Eleven water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were shared with work order 903098. Two spike recoveries outside of the QC limits. All %RPDs were within the RPD limits.

Reviewed By,

Project Manager

Approved By,

Laboratory Director

Sample Summary Report

CH2M Hill Inc

Work Order: 903124

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
OU1-52GW38-0309	903124-011-031-1/3	SW8260LL	WATER	03/18/2009	03/19/2009
	903124-011-076-1/2	GPL-RSK-175			
	903124-011-044-1/1	E300			
	903124-011-055-1/1	E376.1			
	903124-011-088-1/1	SW9060			
OU1-52GW38-0309DL	903124-011-077-2/2DL	GPL-RSK-175	WATER	03/18/2009	03/19/2009
OU1-52GW39-0309	903124-007-019-1/3	SW8260LL	WATER	03/18/2009	03/19/2009
	903124-007-068-1/2	GPL-RSK-175			
	903124-007-040-1/1	E300			
	903124-007-051-1/1	E376.1			
	903124-007-084-1/1	SW9060			
OU1-52GW39-0309DL	903124-007-069-2/2DL	GPL-RSK-175	WATER	03/18/2009	03/19/2009
OU1-52GW42-0309	903124-003-007-1/3	SW8260LL	WATER	03/18/2009	03/19/2009
	903124-003-060-1/2	GPL-RSK-175			
	903124-003-036-1/1	E300			
	903124-003-047-1/1	E376.1			
	903124-003-080-1/1	SW9060			
OU1-52GW42-0309DL	903124-003-061-2/2DL	GPL-RSK-175	WATER	03/18/2009	03/19/2009
OU1-52GW47-0309	903124-001-001-1/3	SW8260LL	WATER	03/18/2009	03/19/2009
	903124-001-056-1/2	GPL-RSK-175			
	903124-001-034-1/1	E300			
	903124-001-045-1/1	E376.1			
	903124-001-078-1/1	SW9060			
OU1-52GW47-0309DL	903124-001-057-2/2DL	GPL-RSK-175	WATER	03/18/2009	03/19/2009
OU1-52GW48-0309	903124-005-013-1/3	SW8260LL	WATER	03/18/2009	03/19/2009
	903124-005-064-1/2	GPL-RSK-175			
	903124-005-038-1/1	E300			
	903124-005-049-1/1	E376.1			
	903124-005-082-1/1	SW9060			
OU1-52GW48-0309DL	903124-005-065-2/2DL	GPL-RSK-175	WATER	03/18/2009	03/19/2009
OU1-52GW55-0309	903124-009-025-1/3	SW8260LL	WATER	03/18/2009	03/19/2009

Sample Summary Report

CH2M Hill Inc

Work Order: 903124

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
	903124-009-072-1/2	GPL-RSK-175			
	903124-009-042-1/1	E300			
	903124-009-053-1/1	E376.1			
	903124-009-086-1/1	SW9060			
OU1-52GW55-0309DL	903124-009-073-2/2DL	GPL-RSK-175	WATER	03/18/2009	03/19/2009
OU1-52GW56-0309	903124-006-016-1/3	SW8260LL	WATER	03/18/2009	03/19/2009
	903124-006-066-1/2	GPL-RSK-175			
	903124-006-039-1/1	E300			
	903124-006-050-1/1	E376.1			
	903124-006-083-1/1	SW9060			
OU1-52GW56-0309DL	903124-006-067-2/2DL	GPL-RSK-175	WATER	03/18/2009	03/19/2009
OU1-52GW57-0309	903124-010-028-1/3	SW8260LL	WATER	03/18/2009	03/19/2009
	903124-010-074-1/2	GPL-RSK-175			
	903124-010-043-1/1	E300			
	903124-010-054-1/1	E376.1			
	903124-010-087-1/1	SW9060			
OU1-52GW57-0309DL	903124-010-075-2/2DL	GPL-RSK-175	WATER	03/18/2009	03/19/2009
OU1-52GW58-0309	903124-008-022-1/3	SW8260LL	WATER	03/18/2009	03/19/2009
	903124-008-070-1/2	GPL-RSK-175			
	903124-008-041-1/1	E300			
	903124-008-052-1/1	E376.1			
	903124-008-085-1/1	SW9060			
OU1-52GW58-0309DL	903124-008-071-2/2DL	GPL-RSK-175	WATER	03/18/2009	03/19/2009
	903124-008-071-2/2DL	SW8260LL			
OU1-52GW71-0309	903124-002-004-1/3	SW8260LL	WATER	03/18/2009	03/19/2009
	903124-002-058-1/2	GPL-RSK-175			
	903124-002-035-1/1	E300			
	903124-002-046-1/1	E376.1			
	903124-002-079-1/1	SW9060			
OU1-52GW71-0309DL	903124-002-059-2/2DL	GPL-RSK-175	WATER	03/18/2009	03/19/2009
OU1-52GW72-0309	903124-004-010-1/3	SW8260LL	WATER	03/18/2009	03/19/2009

Sample Summary Report

CH2M Hill Inc

Work Order: 903124

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
	903124-004-062-1/2	GPL-RSK-175			
	903124-004-037-1/1	E300			
	903124-004-048-1/1	E376.1			
	903124-004-081-1/1	SW9060			
OU1-TB14-0309	903124-012-089-1/3	SW8260LL	WATER	03/18/2009	03/19/2009
OU1-TB15-0309	903124-013-092-1/3	SW8260LL	WATER	03/18/2009	03/19/2009

QC SUMMARY PACKAGE

GPL Laboratories

VOLATILE ORGANICS

GPL Laboratories

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108871
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	53	
71-55-6	1,1,1-Trichloroethane	55	
79-34-5	1,1,2,2-Tetrachloroethane	42	
79-00-5	1,1,2-Trichloroethane	45	
75-34-3	1,1-Dichloroethane	52	
75-35-4	1,1-Dichloroethene	50	
563-58-6	1,1-Dichloropropene	41	
87-61-6	1,2,3-Trichlorobenzene	56	
96-18-4	1,2,3-Trichloropropane	45	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	49	
96-12-8	1,2-Dibromo-3-Chloropropane	36	
95-50-1	1,2-Dichlorobenzene	55	
107-06-2	1,2-Dichloroethane	41	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	48	
541-73-1	1,3-Dichlorobenzene	57	
142-28-9	1,3-Dichloropropane	43	
106-46-7	1,4-Dichlorobenzene	56	
594-20-7	2,2-Dichloropropane	48	
78-93-3	2-Butanone	65	
95-49-8	2-Chlorotoluene	53	
591-78-6	2-Hexanone	70	
106-43-4	4-Chlorotoluene	53	
99-87-6	4-Isopropyltoluene	56	
108-10-1	4-Methyl-2-Pentanone	76	
67-64-1	Acetone	73	
71-43-2	Benzene	39	
108-86-1	Bromobenzene	55	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108871
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	63	
75-27-4	Bromodichloromethane	45	
75-25-2	Bromoform	51	
74-83-9	Bromomethane	130	
75-15-0	Carbon Disulfide	44	
56-23-5	Carbon Tetrachloride	58	
108-90-7	Chlorobenzene	48	
75-00-3	Chloroethane	47	
67-66-3	Chloroform	50	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	46	
124-48-1	Dibromochloromethane	48	
74-95-3	Dibromomethane	47	
75-71-8	Dichlorodifluoromethane	46	
100-41-4	Ethylbenzene	44	
106-93-4	Ethylene DiBromide	42	
76-13-1	Freon 113	62	
87-68-3	Hexachlorobutadiene	57	
98-82-8	Isopropylbenzene	48	
79-20-9	Methyl Acetate	34	
108-87-2	Methylcyclohexane	58	
75-09-2	Methylene Chloride	44	
91-20-3	Naphthalene	50	
135-98-8	Sec-Butylbenzene	49	
100-42-5	Styrene	46	
127-18-4	Tetrachloroethylene	56	
108-88-3	Toluene	48	
79-01-6	Trichloroethene	44	
75-69-4	Trichlorofluoromethane	50	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108871
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	27	
75-01-4	Vinyl Chloride	42	
156-59-2	cis-1,2-Dichloroethene	46	
10061-01-5	cis-1,3-Dichloropropene	45	
136777-61-2	m,p-Xylene	97	
104-51-8	n-Butylbenzene	46	
103-65-1	n-Propylbenzene	46	
95-47-6	o-Xylene	47	
98-06-6	tert-Butylbenzene	52	
1634-04-4	tert-butyl methyl ether	52	
156-60-5	trans-1,2-dichloroethene	50	
10061-02-6	trans-1,3-dichloropropene	44	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108876
Sample Volume :	5	Lab File ID :	A62603.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	57	
71-55-6	1,1,1-Trichloroethane	58	
79-34-5	1,1,2,2-Tetrachloroethane	46	
79-00-5	1,1,2-Trichloroethane	53	
75-34-3	1,1-Dichloroethane	55	
75-35-4	1,1-Dichloroethene	56	
563-58-6	1,1-Dichloropropene	48	
87-61-6	1,2,3-Trichlorobenzene	64	
96-18-4	1,2,3-Trichloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	61	
95-63-6	1,2,4-Trimethylbenzene	49	
96-12-8	1,2-Dibromo-3-Chloropropane	48	
95-50-1	1,2-Dichlorobenzene	57	
107-06-2	1,2-Dichloroethane	48	
78-87-5	1,2-Dichloropropane	51	
108-67-8	1,3,5-trimethylbenzene	49	
541-73-1	1,3-Dichlorobenzene	59	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	58	
594-20-7	2,2-Dichloropropane	48	
78-93-3	2-Butanone	87	
95-49-8	2-Chlorotoluene	52	
591-78-6	2-Hexanone	85	
106-43-4	4-Chlorotoluene	53	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	90	
67-64-1	Acetone	88	
71-43-2	Benzene	45	
108-86-1	Bromobenzene	57	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108876
Sample Volume :	5	Lab File ID :	A62603.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	70	
75-27-4	Bromodichloromethane	54	
75-25-2	Bromoform	54	
74-83-9	Bromomethane	91	
75-15-0	Carbon Disulfide	45	
56-23-5	Carbon Tetrachloride	64	
108-90-7	Chlorobenzene	50	
75-00-3	Chloroethane	72	
67-66-3	Chloroform	53	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	47	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	55	
75-71-8	Dichlorodifluoromethane	44	
100-41-4	Ethylbenzene	45	
106-93-4	Ethylene DiBromide	48	
76-13-1	Freon 113	68	
87-68-3	Hexachlorobutadiene	62	
98-82-8	Isopropylbenzene	49	
79-20-9	Methyl Acetate	46	
108-87-2	Methylcyclohexane	59	
75-09-2	Methylene Chloride	49	
91-20-3	Naphthalene	61	
135-98-8	Sec-Butylbenzene	51	
100-42-5	Styrene	48	
127-18-4	Tetrachloroethylene	58	
108-88-3	Toluene	55	
79-01-6	Trichloroethene	50	
75-69-4	Trichlorofluoromethane	80	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108876
Sample Volume :	5	Lab File ID :	A62603.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	35	
75-01-4	Vinyl Chloride	40	
156-59-2	cis-1,2-Dichloroethene	49	
10061-01-5	cis-1,3-Dichloropropene	51	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	47	
103-65-1	n-Propylbenzene	46	
95-47-6	o-Xylene	48	
98-06-6	tert-Butylbenzene	53	
1634-04-4	tert-butyl methyl ether	60	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	51	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108880
Sample Volume :	5	Lab File ID :	A62635.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	
71-55-6	1,1,1-Trichloroethane	57	
79-34-5	1,1,2,2-Tetrachloroethane	48	
79-00-5	1,1,2-Trichloroethane	51	
75-34-3	1,1-Dichloroethane	55	
75-35-4	1,1-Dichloroethene	55	
563-58-6	1,1-Dichloropropene	50	
87-61-6	1,2,3-Trichlorobenzene	59	
96-18-4	1,2,3-Trichloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	53	
96-12-8	1,2-Dibromo-3-Chloropropane	50	
95-50-1	1,2-Dichlorobenzene	54	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	52	
541-73-1	1,3-Dichlorobenzene	56	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	55	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	90	
95-49-8	2-Chlorotoluene	52	
591-78-6	2-Hexanone	92	
106-43-4	4-Chlorotoluene	51	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	90	
67-64-1	Acetone	92	
71-43-2	Benzene	46	
108-86-1	Bromobenzene	55	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108880
Sample Volume :	5	Lab File ID :	A62635.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	62	
75-27-4	Bromodichloromethane	48	
75-25-2	Bromoform	49	
74-83-9	Bromomethane	110	
75-15-0	Carbon Disulfide	44	
56-23-5	Carbon Tetrachloride	62	
108-90-7	Chlorobenzene	50	
75-00-3	Chloroethane	94	
67-66-3	Chloroform	55	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	50	
124-48-1	Dibromochloromethane	47	
74-95-3	Dibromomethane	47	
75-71-8	Dichlorodifluoromethane	41	
100-41-4	Ethylbenzene	48	
106-93-4	Ethylene DiBromide	47	
76-13-1	Freon 113	73	
87-68-3	Hexachlorobutadiene	59	
98-82-8	Isopropylbenzene	51	
79-20-9	Methyl Acetate	46	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	48	
91-20-3	Naphthalene	56	
135-98-8	Sec-Butylbenzene	54	
100-42-5	Styrene	50	
127-18-4	Tetrachloroethylene	53	
108-88-3	Toluene	51	
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	90	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108880
Sample Volume :	5	Lab File ID :	A62635.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	34	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	51	
10061-01-5	cis-1,3-Dichloropropene	49	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	51	
103-65-1	n-Propylbenzene	50	
95-47-6	o-Xylene	48	
98-06-6	tert-Butylbenzene	55	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	56	
10061-02-6	trans-1,3-dichloropropene	49	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108871
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108871
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108871
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108876
Sample Volume :	5	Lab File ID :	A62605.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108876
Sample Volume :	5	Lab File ID :	A62605.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108876
Sample Volume :	5	Lab File ID :	A62605.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108880
Sample Volume :	5	Lab File ID :	A62637.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108880
Sample Volume :	5	Lab File ID :	A62637.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108880
Sample Volume :	5	Lab File ID :	A62637.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-031-1/3
Sample Volume :	5	Lab File ID :	A62621.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	2.8	J
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-031-1/3
Sample Volume :	5	Lab File ID :	A62621.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.4	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-031-1/3
Sample Volume :	5	Lab File ID :	A62621.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.1	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-019-1/3
Sample Volume :	5	Lab File ID :	A62613.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	5.0	
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-019-1/3
Sample Volume :	5	Lab File ID :	A62613.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	2.0	
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.3	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-019-1/3
Sample Volume :	5	Lab File ID :	A62613.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	5.6	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-007-1/3
Sample Volume :	5	Lab File ID :	A62595.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-007-1/3
Sample Volume :	5	Lab File ID :	A62595.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-007-1/3
Sample Volume :	5	Lab File ID :	A62595.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-001-1/3
Sample Volume :	5	Lab File ID :	A62591.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	3.4	J
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-001-1/3
Sample Volume :	5	Lab File ID :	A62591.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.1	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-001-1/3
Sample Volume :	5	Lab File ID :	A62591.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-013-1/3
Sample Volume :	5	Lab File ID :	A62609.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	0.80	J
75-35-4	1,1-Dichloroethene	2.2	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-013-1/3
Sample Volume :	5	Lab File ID :	A62609.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.6	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	30	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-013-1/3
Sample Volume :	5	Lab File ID :	A62609.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	2.7	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-025-1/3
Sample Volume :	5	Lab File ID :	A62617.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	4.8	J
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-025-1/3
Sample Volume :	5	Lab File ID :	A62617.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	8.3	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-025-1/3
Sample Volume :	5	Lab File ID :	A62617.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-016-1/3
Sample Volume :	5	Lab File ID :	A62611.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	4.0	J
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-016-1/3
Sample Volume :	5	Lab File ID :	A62611.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	8.6	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-016-1/3
Sample Volume :	5	Lab File ID :	A62611.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.6	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-028-1/3
Sample Volume :	5	Lab File ID :	A62619.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	8.0	
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-028-1/3
Sample Volume :	5	Lab File ID :	A62619.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	4.9	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-028-1/3
Sample Volume :	5	Lab File ID :	A62619.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.8	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-022-1/3
Sample Volume :	5	Lab File ID :	A62615.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-022-1/3
Sample Volume :	5	Lab File ID :	A62615.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.1	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	2.4	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	18000	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-022-1/3
Sample Volume :	5	Lab File ID :	A62615.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	2100	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	17	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-023-2/3
Sample Volume :	.01	Lab File ID :	A62639.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
75-34-3	1,1-Dichloroethane	500	U
75-35-4	1,1-Dichloroethene	500	U
563-58-6	1,1-Dichloropropene	500	U
87-61-6	1,2,3-Trichlorobenzene	500	U
96-18-4	1,2,3-Trichloropropane	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
95-63-6	1,2,4-Trimethylbenzene	500	U
96-12-8	1,2-Dibromo-3-Chloropropane	1000	U
95-50-1	1,2-Dichlorobenzene	500	U
107-06-2	1,2-Dichloroethane	500	U
78-87-5	1,2-Dichloropropane	500	U
108-67-8	1,3,5-trimethylbenzene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
142-28-9	1,3-Dichloropropane	500	U
106-46-7	1,4-Dichlorobenzene	500	U
594-20-7	2,2-Dichloropropane	500	U
78-93-3	2-Butanone	2500	U
95-49-8	2-Chlorotoluene	500	U
591-78-6	2-Hexanone	2500	U
106-43-4	4-Chlorotoluene	500	U
99-87-6	4-Isopropyltoluene	500	U
108-10-1	4-Methyl-2-Pentanone	2500	U
67-64-1	Acetone	2500	U
71-43-2	Benzene	500	U
108-86-1	Bromobenzene	500	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-023-2/3
Sample Volume :	.01	Lab File ID :	A62639.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	500	U
75-27-4	Bromodichloromethane	500	U
75-25-2	Bromoform	500	U
74-83-9	Bromomethane	500	U
75-15-0	Carbon Disulfide	500	U
56-23-5	Carbon Tetrachloride	500	U
108-90-7	Chlorobenzene	500	U
75-00-3	Chloroethane	500	U
67-66-3	Chloroform	500	U
74-87-3	Chloromethane	500	U
110-82-7	Cyclohexane	500	U
124-48-1	Dibromochloromethane	500	U
74-95-3	Dibromomethane	500	U
75-71-8	Dichlorodifluoromethane	500	U
100-41-4	Ethylbenzene	500	U
106-93-4	Ethylene DiBromide	500	U
76-13-1	Freon 113	500	U
87-68-3	Hexachlorobutadiene	500	U
98-82-8	Isopropylbenzene	500	U
79-20-9	Methyl Acetate	500	U
108-87-2	Methylcyclohexane	500	U
75-09-2	Methylene Chloride	500	U
91-20-3	Naphthalene	500	U
135-98-8	Sec-Butylbenzene	500	U
100-42-5	Styrene	500	U
127-18-4	Tetrachloroethylene	500	U
108-88-3	Toluene	500	U
79-01-6	Trichloroethene	9300	
75-69-4	Trichlorofluoromethane	500	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-023-2/3
Sample Volume :	.01	Lab File ID :	A62639.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	500	U
75-01-4	Vinyl Chloride	500	U
156-59-2	cis-1,2-Dichloroethene	980	
10061-01-5	cis-1,3-Dichloropropene	500	U
136777-61-2	m,p-Xylene	500	U
104-51-8	n-Butylbenzene	500	U
103-65-1	n-Propylbenzene	500	U
95-47-6	o-Xylene	500	U
98-06-6	tert-Butylbenzene	500	U
1634-04-4	tert-butyl methyl ether	500	U
156-60-5	trans-1,2-dichloroethene	500	U
10061-02-6	trans-1,3-dichloropropene	500	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-004-1/3
Sample Volume :	5	Lab File ID :	A62593.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-004-1/3
Sample Volume :	5	Lab File ID :	A62593.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-004-1/3
Sample Volume :	5	Lab File ID :	A62593.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-010-1/3
Sample Volume :	5	Lab File ID :	A62607.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-010-1/3
Sample Volume :	5	Lab File ID :	A62607.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-010-1/3
Sample Volume :	5	Lab File ID :	A62607.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB14-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-012-089-1/3
Sample Volume :	5	Lab File ID :	A62623.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB14-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-012-089-1/3
Sample Volume :	5	Lab File ID :	A62623.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.3	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB14-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-012-089-1/3
Sample Volume :	5	Lab File ID :	A62623.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB15-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-013-092-1/3
Sample Volume :	5	Lab File ID :	A62625.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB15-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-013-092-1/3
Sample Volume :	5	Lab File ID :	A62625.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.0	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB15-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-013-092-1/3
Sample Volume :	5	Lab File ID :	A62625.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903124

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108871	99	99	104	121
BLK108871	91	106	101	113
OU1-52GW42-0309	90	104	100	114
OU1-52GW47-0309	93	102	103	112
OU1-52GW71-0309	91	106	103	117

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903124

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108876	93	106	107	120
BLK108876	95	103	104	117
OU1-52GW38-0309	91	101	98	115
OU1-52GW39-0309	94	103	102	118
OU1-52GW48-0309	94	102	99	118
OU1-52GW55-0309	91	101	98	111
OU1-52GW56-0309	90	104	100	115
OU1-52GW57-0309	93	100	100	117
OU1-52GW58-0309	93	103	102	116
OU1-52GW72-0309	93	102	100	116
OU1-TB14-0309	91	101	96	118
OU1-TB15-0309	90	100	103	119

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903124

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108880	99	100	105	115
BLK108880	97	98	100	110
OU1-52GW58-0309DL	96	99	103	106

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108871

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108871
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	53	106	80-130
1,1,1-Trichloroethane	50	0	55	110	65-130
1,1,2,2-Tetrachloroethane	50	0	42	84	65-130
1,1,2-Trichloroethane	50	0	45	90	75-125
1,1-Dichloroethane	50	0	52	104	70-135
1,1-Dichloroethene	50	0	50	100	70-130
1,1-Dichloropropene	50	0	41	82	75-130
1,2,3-Trichlorobenzene	50	0	56	112	55-140
1,2,3-Trichloropropane	50	0	45	90	75-125
1,2,4-Trichlorobenzene	50	0	56	112	65-135
1,2,4-Trimethylbenzene	50	0	49	98	75-130
1,2-Dibromo-3-Chloropropane	50	0	36	72	50-130
1,2-Dichlorobenzene	50	0	55	110	70-120
1,2-Dichloroethane	50	0	41	82	70-130
1,2-Dichloropropane	50	0	45	90	75-125
1,3,5-trimethylbenzene	50	0	48	96	75-130
1,3-Dichlorobenzene	50	0	57	114	75-125
1,3-Dichloropropane	50	0	43	86	75-125
1,4-Dichlorobenzene	50	0	56	112	75-125
2,2-Dichloropropane	50	0	48	96	70-135
2-Butanone	100	0	65	65	30-150
2-Chlorotoluene	50	0	53	106	75-125
2-Hexanone	100	0	70	70	55-130
4-Chlorotoluene	50	0	53	106	75-130
4-Isopropyltoluene	50	0	56	112	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108871

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108871
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	76	76	60-135
Acetone	100	0	73	73	40-140
Benzene	50	0	39	78 *	80-120
Bromobenzene	50	0	55	110	75-125
Bromochloromethane	50	0	63	126	65-130
Bromodichloromethane	50	0	45	90	75-120
Bromoform	50	0	51	102	70-130
Bromomethane	50	0	130	260 *	30-145
Carbon Disulfide	50	0	44	88	35-160
Carbon Tetrachloride	50	0	58	116	65-140
Chlorobenzene	50	0	48	96	80-120
Chloroethane	50	0	47	94	60-135
Chloroform	50	0	50	100	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	46	92	50-120
Dibromochloromethane	50	0	48	96	60-135
Dibromomethane	50	0	47	94	75-125
Dichlorodifluoromethane	50	0	46	92	30-155
Ethylbenzene	50	0	44	88	75-125
Ethylene DiBromide	50	0	42	84	80-120
Freon 113	50	0	62	124	70-130
Hexachlorobutadiene	50	0	57	114	50-140
Isopropylbenzene	50	0	48	96	75-125
Methyl Acetate	50	0	34	68	50-120
Methylcyclohexane	50	0	58	116	50-120

* Values Outside of QC Limits.

Spike recovery : 2 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108871

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108871
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	44	88	55-140
Naphthalene	50	0	50	100	55-140
Sec-Butylbenzene	50	0	49	98	70-125
Styrene	50	0	46	92	65-135
Tetrachloroethylene	50	0	56	112	45-150
Toluene	50	0	48	96	75-120
Trichloroethene	50	0	44	88	70-125
Trichlorofluoromethane	50	0	50	100	60-145
Vinyl Acetate	50	0	27	54	41-139
Vinyl Chloride	50	0	42	84	50-145
cis-1,2-Dichloroethene	50	0	46	92	70-125
cis-1,3-Dichloropropene	50	0	45	90	70-130
m,p-Xylene	100	0	97	97	75-130
n-Butylbenzene	50	0	46	92	70-135
n-Propylbenzene	50	0	46	92	70-130
o-Xylene	50	0	47	94	80-120
tert-Butylbenzene	50	0	52	104	70-130
tert-butyl methyl ether	50	0	52	104	65-125
trans-1,2-dichloroethene	50	0	50	100	60-140
trans-1,3-dichloropropene	50	0	44	88	55-140

* Values Outside of QC Limits.

Spike recovery : 0 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108876

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108876
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	57	114	80-130
1,1,1-Trichloroethane	50	0	58	116	65-130
1,1,2,2-Tetrachloroethane	50	0	46	92	65-130
1,1,2-Trichloroethane	50	0	53	106	75-125
1,1-Dichloroethane	50	0	55	110	70-135
1,1-Dichloroethene	50	0	56	112	70-130
1,1-Dichloropropene	50	0	48	96	75-130
1,2,3-Trichlorobenzene	50	0	64	128	55-140
1,2,3-Trichloropropane	50	0	52	104	75-125
1,2,4-Trichlorobenzene	50	0	61	122	65-135
1,2,4-Trimethylbenzene	50	0	49	98	75-130
1,2-Dibromo-3-Chloropropane	50	0	48	96	50-130
1,2-Dichlorobenzene	50	0	57	114	70-120
1,2-Dichloroethane	50	0	48	96	70-130
1,2-Dichloropropane	50	0	51	102	75-125
1,3,5-trimethylbenzene	50	0	49	98	75-130
1,3-Dichlorobenzene	50	0	59	118	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	58	116	75-125
2,2-Dichloropropane	50	0	48	96	70-135
2-Butanone	100	0	87	87	30-150
2-Chlorotoluene	50	0	52	104	75-125
2-Hexanone	100	0	85	85	55-130
4-Chlorotoluene	50	0	53	106	75-130
4-Isopropyltoluene	50	0	57	114	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108876

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108876
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	90	90	60-135
Acetone	100	0	88	88	40-140
Benzene	50	0	45	90	80-120
Bromobenzene	50	0	57	114	75-125
Bromochloromethane	50	0	70	140 *	65-130
Bromodichloromethane	50	0	54	108	75-120
Bromoform	50	0	54	108	70-130
Bromomethane	50	0	91	182 *	30-145
Carbon Disulfide	50	0	45	90	35-160
Carbon Tetrachloride	50	0	64	128	65-140
Chlorobenzene	50	0	50	100	80-120
Chloroethane	50	0	72	144 *	60-135
Chloroform	50	0	53	106	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	47	94	50-120
Dibromochloromethane	50	0	51	102	60-135
Dibromomethane	50	0	55	110	75-125
Dichlorodifluoromethane	50	0	44	88	30-155
Ethylbenzene	50	0	45	90	75-125
Ethylene DiBromide	50	0	48	96	80-120
Freon 113	50	0	68	136 *	70-130
Hexachlorobutadiene	50	0	62	124	50-140
Isopropylbenzene	50	0	49	98	75-125
Methyl Acetate	50	0	46	92	50-120
Methylcyclohexane	50	0	59	118	50-120

* Values Outside of QC Limits.

Spike recovery : 4 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108876

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108876
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	49	98	55-140
Naphthalene	50	0	61	122	55-140
Sec-Butylbenzene	50	0	51	102	70-125
Styrene	50	0	48	96	65-135
Tetrachloroethylene	50	0	58	116	45-150
Toluene	50	0	55	110	75-120
Trichloroethene	50	0	50	100	70-125
Trichlorofluoromethane	50	0	80	160 *	60-145
Vinyl Acetate	50	0	35	70	41-139
Vinyl Chloride	50	0	40	80	50-145
cis-1,2-Dichloroethene	50	0	49	98	70-125
cis-1,3-Dichloropropene	50	0	51	102	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	47	94	70-135
n-Propylbenzene	50	0	46	92	70-130
o-Xylene	50	0	48	96	80-120
tert-Butylbenzene	50	0	53	106	70-130
tert-butyl methyl ether	50	0	60	120	65-125
trans-1,2-dichloroethene	50	0	55	110	60-140
trans-1,3-dichloropropene	50	0	51	102	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108880

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108880
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	50	100	80-130
1,1,1-Trichloroethane	50	0	57	114	65-130
1,1,2,2-Tetrachloroethane	50	0	48	96	65-130
1,1,2-Trichloroethane	50	0	51	102	75-125
1,1-Dichloroethane	50	0	55	110	70-135
1,1-Dichloroethene	50	0	55	110	70-130
1,1-Dichloropropene	50	0	50	100	75-130
1,2,3-Trichlorobenzene	50	0	59	118	55-140
1,2,3-Trichloropropane	50	0	53	106	75-125
1,2,4-Trichlorobenzene	50	0	58	116	65-135
1,2,4-Trimethylbenzene	50	0	53	106	75-130
1,2-Dibromo-3-Chloropropane	50	0	50	100	50-130
1,2-Dichlorobenzene	50	0	54	108	70-120
1,2-Dichloroethane	50	0	51	102	70-130
1,2-Dichloropropane	50	0	45	90	75-125
1,3,5-trimethylbenzene	50	0	52	104	75-130
1,3-Dichlorobenzene	50	0	56	112	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	55	110	75-125
2,2-Dichloropropane	50	0	54	108	70-135
2-Butanone	100	0	90	90	30-150
2-Chlorotoluene	50	0	52	104	75-125
2-Hexanone	100	0	92	92	55-130
4-Chlorotoluene	50	0	51	102	75-130
4-Isopropyltoluene	50	0	59	118	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108880

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108880
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	90	90	60-135
Acetone	100	0	92	92	40-140
Benzene	50	0	46	92	80-120
Bromobenzene	50	0	55	110	75-125
Bromochloromethane	50	0	62	124	65-130
Bromodichloromethane	50	0	48	96	75-120
Bromoform	50	0	49	98	70-130
Bromomethane	50	0	110	220 *	30-145
Carbon Disulfide	50	0	44	88	35-160
Carbon Tetrachloride	50	0	62	124	65-140
Chlorobenzene	50	0	50	100	80-120
Chloroethane	50	0	94	188 *	60-135
Chloroform	50	0	55	110	65-135
Chloromethane	50	0	46	92	40-125
Cyclohexane	50	0	50	100	50-120
Dibromochloromethane	50	0	47	94	60-135
Dibromomethane	50	0	47	94	75-125
Dichlorodifluoromethane	50	0	41	82	30-155
Ethylbenzene	50	0	48	96	75-125
Ethylene DiBromide	50	0	47	94	80-120
Freon 113	50	0	73	146 *	70-130
Hexachlorobutadiene	50	0	59	118	50-140
Isopropylbenzene	50	0	51	102	75-125
Methyl Acetate	50	0	46	92	50-120
Methylcyclohexane	50	0	54	108	50-120

* Values Outside of QC Limits.

Spike recovery : 3 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108880

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108880
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	48	96	55-140
Naphthalene	50	0	56	112	55-140
Sec-Butylbenzene	50	0	54	108	70-125
Styrene	50	0	50	100	65-135
Tetrachloroethylene	50	0	53	106	45-150
Toluene	50	0	51	102	75-120
Trichloroethene	50	0	49	98	70-125
Trichlorofluoromethane	50	0	90	180 *	60-145
Vinyl Acetate	50	0	34	68	41-139
Vinyl Chloride	50	0	43	86	50-145
cis-1,2-Dichloroethene	50	0	51	102	70-125
cis-1,3-Dichloropropene	50	0	49	98	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	51	102	70-135
n-Propylbenzene	50	0	50	100	70-130
o-Xylene	50	0	48	96	80-120
tert-Butylbenzene	50	0	55	110	70-130
tert-butyl methyl ether	50	0	57	114	65-125
trans-1,2-dichloroethene	50	0	56	112	60-140
trans-1,3-dichloropropene	50	0	49	98	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Lab File ID :	A62571.D	SDG NO :	903124
Date Analyzed	03/26/2009	Lab Sample ID :	BLK108871
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:13

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108871	BKS108871	A62569.D	10:32
OU1-52GW42-0309	903124-003-007-1/3	A62595.D	19:53
OU1-52GW47-0309	903124-001-001-1/3	A62591.D	18:32
OU1-52GW71-0309	903124-002-004-1/3	A62593.D	19:12

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Lab File ID :	A62605.D	SDG NO :	903124
Date Analyzed	03/26/2009	Lab Sample ID :	BLK108876
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	23:16

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108876	BKS108876	A62603.D	22:36
OU1-52GW38-0309	903124-011-031-1/3	A62621.D	04:40
OU1-52GW39-0309	903124-007-019-1/3	A62613.D	01:58
OU1-52GW48-0309	903124-005-013-1/3	A62609.D	00:37
OU1-52GW55-0309	903124-009-025-1/3	A62617.D	03:19
OU1-52GW56-0309	903124-006-016-1/3	A62611.D	01:18
OU1-52GW57-0309	903124-010-028-1/3	A62619.D	03:59
OU1-52GW58-0309	903124-008-022-1/3	A62615.D	02:38
OU1-52GW72-0309	903124-004-010-1/3	A62607.D	23:56
OU1-TB14-0309	903124-012-089-1/3	A62623.D	05:21
OU1-TB15-0309	903124-013-092-1/3	A62625.D	06:02

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Lab File ID :	A62637.D	SDG NO :	903124
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108880
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:26

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108880	BKS108880	A62635.D	10:45
OU1-52GW58-0309DL	903124-008-023-2/3	A62639.D	12:30

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62565.D BFB Injection Date : 03/26/2009 BFB Injection Time : 08:27

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.3	
75	30.0 - 60.0% of mass 95	53.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	1.0	(1.1)1
174	50.0 - 120.0% of mass 95	88.0	
175	5.0 - 9.0% of mass 174	7.4	(8.4)1
176	95.0 - 101.0% of mass 174	83.9	(95.3)1
177	5.0 - 9.0% of mass 176	5.7	(6.8)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62567.D	03/26/2009	09:20
2	BKS108871	BKS108871	A62569.D	03/26/2009	10:32
3	BLK108871	BLK108871	A62571.D	03/26/2009	11:13
4	OU1-52GW47-0309	903124-001-001-1/3	A62591.D	03/26/2009	18:32
5	OU1-52GW71-0309	903124-002-004-1/3	A62593.D	03/26/2009	19:12
6	OU1-52GW42-0309	903124-003-007-1/3	A62595.D	03/26/2009	19:53

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62600.D BFB Injection Date : 03/26/2009 BFB Injection Time : 21:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.7	
75	30.0 - 60.0% of mass 95	52.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	1.9	(1.9)1
174	50.0 - 120.0% of mass 95	98.7	
175	5.0 - 9.0% of mass 174	8.4	(8.5)1
176	95.0 - 101.0% of mass 174	97.1	(98.3)1
177	5.0 - 9.0% of mass 176	7.3	(7.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62601.D	03/26/2009	21:55
2	BKS108876	BKS108876	A62603.D	03/26/2009	22:36
3	BLK108876	BLK108876	A62605.D	03/26/2009	23:16
4	OU1-52GW72-0309	903124-004-010-1/3	A62607.D	03/26/2009	23:56
5	OU1-52GW48-0309	903124-005-013-1/3	A62609.D	03/27/2009	00:37
6	OU1-52GW56-0309	903124-006-016-1/3	A62611.D	03/27/2009	01:18
7	OU1-52GW39-0309	903124-007-019-1/3	A62613.D	03/27/2009	01:58
8	OU1-52GW58-0309	903124-008-022-1/3	A62615.D	03/27/2009	02:38
9	OU1-52GW55-0309	903124-009-025-1/3	A62617.D	03/27/2009	03:19
10	OU1-52GW57-0309	903124-010-028-1/3	A62619.D	03/27/2009	03:59
11	OU1-52GW38-0309	903124-011-031-1/3	A62621.D	03/27/2009	04:40
12	OU1-TB14-0309	903124-012-089-1/3	A62623.D	03/27/2009	05:21
13	OU1-TB15-0309	903124-013-092-1/3	A62625.D	03/27/2009	06:02

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62629.D BFB Injection Date : 03/27/2009 BFB Injection Time : 08:18

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.3	
75	30.0 - 60.0% of mass 95	51.7	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.4	
173	Less than 2.0% of mass 174	1.7	(2.0)1
174	50.0 - 120.0% of mass 95	88.3	
175	5.0 - 9.0% of mass 174	6.7	(7.6)1
176	95.0 - 101.0% of mass 174	85.1	(96.3)1
177	5.0 - 9.0% of mass 176	5.8	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62633.D	03/27/2009	10:04
2	BKS108880	BKS108880	A62635.D	03/27/2009	10:45
3	BLK108880	BLK108880	A62637.D	03/27/2009	11:26
4	OU1-52GW58-0309DL	903124-008-023-2/3	A62639.D	03/27/2009	12:30

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62567.D Date Analyzed: 03/26/2009 Time Analyzed: 09:20

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	362227	04.68	433260	07.79	391514	04.56
UPPER LIMIT	724454	05.18	866520	08.29	783028	05.06
LOWER LIMIT	181114	04.18	216630	07.29	195757	04.06
Client Sample						
BKS108871	439401	04.68	456605	07.78	430569	04.56
BLK108871	334290	04.68	376962	07.78	365167	04.55
OU1-52GW42-0309	334668	04.68	367265	07.78	355961	04.55
OU1-52GW47-0309	346795	04.68	371153	07.78	366281	04.55
OU1-52GW71-0309	344158	04.68	379926	07.78	371882	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62601.D Date Analyzed: 03/26/2009 Time Analyzed: 21:55

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	353860	04.68	411894	07.78	377141	04.55
UPPER LIMIT	707720	05.18	823788	08.28	754282	05.05
LOWER LIMIT	176930	04.18	205947	07.28	188571	04.05
Client Sample						
BKS108876	373286	04.68	431215	07.78	409560	04.55
BLK108876	376407	04.68	404746	07.78	408844	04.55
OU1-52GW38-0309	320912	04.68	344502	07.78	336600	04.55
OU1-52GW39-0309	308870	04.68	340152	07.78	332582	04.55
OU1-52GW48-0309	341881	04.68	369185	07.78	366448	04.55
OU1-52GW55-0309	322902	04.68	363174	07.78	351874	04.55
OU1-52GW56-0309	330429	04.68	366816	07.78	360562	04.55
OU1-52GW57-0309	334210	04.68	364832	07.78	357697	04.55
OU1-52GW58-0309	333692	04.68	368860	07.78	352406	04.56
OU1-52GW72-0309	328569	04.68	354340	07.78	343854	04.55
OU1-TB14-0309	317276	04.68	346175	07.78	338772	04.55
OU1-TB15-0309	301265	04.68	328489	07.78	319454	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62633.D Date Analyzed: 03/27/2009 Time Analyzed: 10:04

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	638110	04.68	682391	07.78	708019	04.56
UPPER LIMIT	1276220	05.18	1364782	08.28	1416038	05.06
LOWER LIMIT	319055	04.18	341196	07.28	354010	04.06
Client Sample						
BKS108880	677174	04.68	701470	07.78	740291	04.55
BLK108880	639558	04.68	620439	07.78	701752	04.55
OU1-52GW58-0309DL	603193	04.68	611604	07.78	653108	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1-Trichloroethane	50	50	0.0	68	69	136	138	1	25	50-149
1,1,2,2-Tetrachloroethane	50	50	0.0	52	54	104	108	4	25	70-120
1,1,2-Trichloroethane	50	50	0.0	62	62	124	124	0	25	61-146
1,1-Dichloroethane	50	50	0.0	62	64	124	128	3	25	63-135
1,1-Dichloroethene	50	50	0.0	60	68	120	138 *	14	25	59-130
1,2,4-Trichlorobenzene	50	50	0.0	67	72	134 *	144 *	7	25	56-132
1,2-Dibromo-3-Chloropropane	50	50	0.0	47	54	94	108	14	25	20-154
1,2-Dichlorobenzene	50	50	0.0	66	68	132	136 *	3	25	79-133
1,2-Dichloroethane	50	50	0.0	56	55	112	110	2	25	47-158
1,2-Dichloropropane	50	50	0.0	56	60	112	120	7	25	72-133
1,3-Dichlorobenzene	50	50	0.0	69	70	138 *	140 *	1	25	78-130
1,4-Dichlorobenzene	50	50	0.0	68	69	136 *	138 *	1	25	75-134
2-Butanone	100	100	0.0	93	98	93	98	5	25	70-125
2-Hexanone	100	100	0.0	94	96	94	96	2	25	49-150
4-Methyl-2-Pentanone	100	100	0.0	95	99	95	99	4	25	70-120
Acetone	100	100	0.0	88	93	88	93	6	25	56-152
Benzene	50	50	0.0	53	54	106	108	2	25	74-130
Bromodichloromethane	50	50	0.0	58	61	116	122	5	25	57-149

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Bromoform	50	50	0.0	63	64	126	128 *	2	25	62-127
Bromomethane	50	50	0.0	150	100	300 *	200 *	40 *	25	41-140
Carbon Disulfide	50	50	0.0	51	54	102	108	6	25	57-152
Carbon Tetrachloride	50	50	0.0	78	80	156 *	160 *	3	25	48-149
Chlorobenzene	50	50	180	220	250	80	140 *	55 *	25	75-130
Chloroethane	50	50	0.0	120	95	240 *	190 *	23	25	61-140
Chloroform	50	50	0.0	60	62	120	126	5	25	62-131
Chloromethane	50	50	0.0	46	52	92	104	12	25	39-148
Cyclohexane	50	50	0.0	61	63	122 *	126 *	3	25	50-120
Dibromochloromethane	50	50	0.0	59	59	118	118	0	25	55-139
Dichlorodifluoromethane	50	50	18	70	79	104	122 *	16	25	42-114
Ethylbenzene	50	50	0.0	54	53	108	106	2	25	76-139
Ethylene DiBromide	50	50	0.0	52	53	104	106	2	25	57-129
Freon 113	50	50	0.0	84	92	168 *	184 *	9	25	70-120
Isopropylbenzene	50	50	0.0	59	60	118	120	2	25	68-132
Methyl Acetate	50	50	0.0	54	56	108	112	4	25	50-120
Methylcyclohexane	50	50	0.0	78	82	156 *	164 *	5	25	50-120
Methylene Chloride	50	50	4.0	51	59	94	110	16	25	60-126

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Styrene	50	50	0.0	55	54	108	108	0	25	45-152
Tetrachloroethylene	50	50	0.0	69	68	138	136	1	25	43-147
Toluene	50	50	0.0	64	64	128	130	2	25	70-133
Total Xylenes	150	150	0.0	170	170	113	113	0	25	70-120
Trichloroethene	50	50	0.0	54	57	106	114	7	25	62-137
Trichlorofluoromethane	50	50	0.0	68	110	136	220 *	47 *	25	27-149
Vinyl Chloride	50	50	0.0	50	49	100	98	2	25	64-158
cis-1,2-Dichloroethene	50	50	1.9	58	60	112	116	4	25	48-144
cis-1,3-Dichloropropene	50	50	0.0	58	58	114	116	2	25	62-126
tert-butyl methyl ether	50	50	0.0	63	67	126	134 *	6	25	50-128
trans-1,2-dichloroethene	50	50	3.7	62	69	117	131 *	11	25	64-125
trans-1,3-dichloropropene	50	50	0.0	61	61	120	122 *	2	25	65-121

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MS
Sample Volume :	5	Lab File ID :	A62587.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	68	
79-34-5	1,1,2,2-Tetrachloroethane	52	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	62	
75-35-4	1,1-Dichloroethene	60	
120-82-1	1,2,4-Trichlorobenzene	67	
96-12-8	1,2-Dibromo-3-Chloropropane	47	
95-50-1	1,2-Dichlorobenzene	66	
107-06-2	1,2-Dichloroethane	56	
78-87-5	1,2-Dichloropropane	56	
541-73-1	1,3-Dichlorobenzene	69	
106-46-7	1,4-Dichlorobenzene	68	
78-93-3	2-Butanone	93	
591-78-6	2-Hexanone	94	
108-10-1	4-Methyl-2-Pentanone	95	
67-64-1	Acetone	88	
71-43-2	Benzene	53	
75-27-4	Bromodichloromethane	58	
75-25-2	Bromoform	62	
74-83-9	Bromomethane	150	
75-15-0	Carbon Disulfide	51	
56-23-5	Carbon Tetrachloride	78	
108-90-7	Chlorobenzene	220	E
75-00-3	Chloroethane	120	
67-66-3	Chloroform	60	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	61	
124-48-1	Dibromochloromethane	59	
75-71-8	Dichlorodifluoromethane	70	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MS
Sample Volume :	5	Lab File ID :	A62587.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	54	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	84	
98-82-8	Isopropylbenzene	59	
79-20-9	Methyl Acetate	54	
108-87-2	Methylcyclohexane	78	
75-09-2	Methylene Chloride	51	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	69	
108-88-3	Toluene	64	
1330-20-7	Total Xylenes	170	
79-01-6	Trichloroethene	53	
75-69-4	Trichlorofluoromethane	68	
75-01-4	Vinyl Chloride	50	
156-59-2	cis-1,2-Dichloroethene	58	
10061-01-5	cis-1,3-Dichloropropene	57	
1634-04-4	tert-butyl methyl ether	63	
156-60-5	trans-1,2-dichloroethene	62	
10061-02-6	trans-1,3-dichloropropene	60	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MSD
Sample Volume :	5	Lab File ID :	A62589.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	69	
79-34-5	1,1,2,2-Tetrachloroethane	54	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	64	
75-35-4	1,1-Dichloroethene	68	
120-82-1	1,2,4-Trichlorobenzene	72	
96-12-8	1,2-Dibromo-3-Chloropropane	54	
95-50-1	1,2-Dichlorobenzene	68	
107-06-2	1,2-Dichloroethane	55	
78-87-5	1,2-Dichloropropane	60	
541-73-1	1,3-Dichlorobenzene	70	
106-46-7	1,4-Dichlorobenzene	69	
78-93-3	2-Butanone	98	
591-78-6	2-Hexanone	96	
108-10-1	4-Methyl-2-Pentanone	99	
67-64-1	Acetone	93	
71-43-2	Benzene	54	
75-27-4	Bromodichloromethane	61	
75-25-2	Bromoform	64	
74-83-9	Bromomethane	100	
75-15-0	Carbon Disulfide	54	
56-23-5	Carbon Tetrachloride	80	
108-90-7	Chlorobenzene	250	E
75-00-3	Chloroethane	95	
67-66-3	Chloroform	62	
74-87-3	Chloromethane	52	
110-82-7	Cyclohexane	63	
124-48-1	Dibromochloromethane	59	
75-71-8	Dichlorodifluoromethane	79	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MSD
Sample Volume :	5	Lab File ID :	A62589.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	53	
106-93-4	Ethylene DiBromide	53	
76-13-1	Freon 113	92	
98-82-8	Isopropylbenzene	60	
79-20-9	Methyl Acetate	56	
108-87-2	Methylcyclohexane	82	
75-09-2	Methylene Chloride	59	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	68	
108-88-3	Toluene	64	
1330-20-7	Total Xylenes	170	
79-01-6	Trichloroethene	57	
75-69-4	Trichlorofluoromethane	110	
75-01-4	Vinyl Chloride	49	
156-59-2	cis-1,2-Dichloroethene	60	
10061-01-5	cis-1,3-Dichloropropene	58	
1634-04-4	tert-butyl methyl ether	67	
156-60-5	trans-1,2-dichloroethene	69	
10061-02-6	trans-1,3-dichloropropene	61	

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 14:13:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	137	0.00
2		Dichlorodifluoromethane	0.089	0.080	10.1	113	0.00
3		Chloromethane	0.174	0.141	19.0	133	0.00
4		Vinyl chloride	0.207	0.182	12.1	118	0.00
5		Bromomethane	0.115	0.487	-323.5#	852#	0.00
6		Chloroethane	0.145	0.193	-33.1#	186#	-0.02
7		Trichlorofluoromethane	0.256	0.347	-35.5#	164#	0.00
8		Ethyl Ether	0.178	0.178	0.0	128	0.00
9		Freon 113	0.158	0.207	-31.0#	171#	0.00
10		Acrolein	0.036	0.031	13.9	120	0.00
11		Tert-Butyl alcohol	0.020	0.020	0.0	107	0.00
12		1,1-Dichloroethene	0.182	0.195	-7.1	142	0.00
13		Iodomethane	0.211	0.308	-46.0#	463#	0.00
14		Acetonitrile	0.108	0.182	-68.5#	201#	0.00
15		Methylene chloride	0.252	0.219	13.1	134	0.00
16		Trans-1,2-dichloroethene	0.209	0.225	-7.7	139	0.00
17		Isopropyl ether	0.812	0.801	1.4	125	0.00
18		1,1-Dichloroethane	0.374	0.412	-10.2	137	0.00
19		Acetone	0.095	0.076	20.0#	115	0.00
20		Methyl Acetate	0.186	0.211	-13.4	113	0.02
21		MTBE	0.545	0.575	-5.5	129	0.00
22		Carbon disulfide	0.679	0.536	21.1#	120	0.00
23		Allyl Chloride	0.000	0.000	0.0	185#	0.00
24		Acrylonitrile	0.063	0.062	1.6	126	0.00
25		Chloroprene	0.357	0.370	-3.6	143	0.00
26	T	n-Heptane	0.183	0.007	96.2#	5#	0.12
27		2,2-Dichloropropane	0.313	0.320	-2.2	131	0.00
28		Cis-1,2-dichloroethene	0.253	0.248	2.0	134	0.00
29		1,2-dichloroethene(total)	0.268	0.245	8.6	138	0.00
30		Propionitrile	0.031	0.028	9.7	110	0.00
31		Bromochloromethane	0.109	0.136	-24.8#	157#	0.00
32		Tetrahydrofuran	0.051	0.047	7.8	116	0.00
33		Chloroform	0.426	0.457	-7.3	157#	0.00
34		Cyclohexane	0.392	0.348	11.2	133	0.00
35		1,1,1-Trichloroethane	0.318	0.365	-14.8	150	0.00
36		Carbon tetrachloride	0.272	0.333	-22.4#	157#	0.00
37		Methacrylonitrile	0.170	0.177	-4.1	138	0.00
38		Methylcyclohexane	0.338	0.373	-10.4	153#	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 14:13:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.011	26.7#	91	-0.16
40	SS	1,2-Dichloroethane-d4	0.266	0.276	-3.8	143	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	151#	0.00
42		2-Butanone	0.163	0.137	16.0	111	0.00
43		1,1-Dichloropropene	0.339	0.331	2.4	135	0.00
44		Vinyl Acetate	0.381	0.274	28.1#	103	0.00
45		Benzene	1.058	1.012	4.3	137	0.00
46		1,2-Dichloroethane	0.332	0.343	-3.3	144	0.00
47		Trichloroethene	0.272	0.274	-0.7	148	0.00
48		1,2-Dichloropropane	0.271	0.267	1.5	135	0.00
49		Methyl methacrylate	0.196	0.168	14.3	126	0.00
50		Dibromomethane	0.167	0.169	-1.2	145	0.00
51		Bromodichloromethane	0.354	0.358	-1.1	143	0.00
52		2-Chloroethylvinyl ether	0.108	0.049	54.6#	45#	0.00
53		Cis-1,3-dichloropropene	0.427	0.415	2.8	134	0.00
54	SS	Toluene-d8	1.159	1.182	-2.0	154#	0.00
55		Toluene	0.694	0.705	-1.6	144	0.00
56		Trans-1,3-dichloropropene	0.387	0.376	2.8	131	0.00
57		Ethyl methacrylate	0.347	0.323	6.9	134	0.00
58		1,1,2-Trichloroethane	0.208	0.198	4.8	136	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	170#	0.00
60		4-Methyl-2-pentanone	0.292	0.245	16.1	129	0.00
61		2-Hexanone	0.210	0.174	17.1	124	0.00
62		Tetrachloroethene	0.288	0.317	-10.1	177#	0.00
63		1,3-Dichloropropane	0.416	0.367	11.8	138	0.00
64		Dibromochloromethane	0.301	0.274	9.0	144	0.00
65		1,2-Dibromoethane	0.257	0.227	11.7	143	0.00
66		1-Chlorohexane	0.432	0.394	8.8	153#	0.00
67		Chlorobenzene	0.848	0.846	0.2	159#	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.309	-1.6	160#	0.00
69		Ethylbenzene	1.451	1.406	3.1	159#	0.00
70		m,p-Xylene	0.570	0.597	-4.7	164#	0.00
71		o-Xylene	0.578	0.574	0.7	163#	0.00
72		Xylene (Total)	0.586	0.590	-0.7	164#	0.00
73		Styrene	0.960	0.977	-1.8	162#	0.00
74		Bromoform	0.187	0.192	-2.7	154#	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 14:13:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.267	-3.2	166#	0.00
76	SS	4-Bromofluorobenzene	0.471	0.469	0.4	167#	0.00
77		Bromobenzene	0.336	0.368	-9.5	176#	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.305	7.6	146	0.00
79		1,2,3-Trichloropropane	0.098	0.098	0.0	160#	0.00
80		n-Propylbenzene	1.700	1.706	-0.4	162#	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.074	10.8	115	0.00
82		2-Chlorotoluene	0.361	0.370	-2.5	164#	0.00
83		4-Chlorotoluene	0.374	0.395	-5.6	172#	0.00
84		1,3,5-Trimethylbenzene	1.207	1.263	-4.6	168#	0.00
85		Tert-butylbenzene	1.049	1.138	-8.5	172#	0.00
86		Pentachloroethane	0.000	0.000	0.0	167#	0.00
87		1,2,4-Trimethylbenzene	1.254	1.339	-6.8	173#	0.00
88		Sec-Butylbenzene	1.607	1.722	-7.2	170#	0.00
89		1,3-Dichlorobenzene	0.706	0.796	-12.7	183#	0.00
90		4-Isopropyltoluene	1.367	1.614	-18.1	182#	0.00
91		1,4-Dichlorobenzene	0.708	0.794	-12.1	180#	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.536	-16.0	196#	0.00
93		1,2-Dichlorobenzene	0.674	0.747	-10.8	185#	0.00
94		n-Butylbenzene	1.349	1.364	-1.1	166#	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.051	10.5	140	0.00
96		1,2,4-Trichlorobenzene	0.409	0.461	-12.7	188#	0.00
97		Hexachlorobutadiene	0.190	0.220	-15.8	190#	0.00
98		Naphthalene	0.975	0.975	0.0	150#	0.00
99		1,2,3-Trichlorobenzene	0.342	0.385	-12.6	181#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	76	0.00
2		Dichlorodifluoromethane	0.089	0.079	11.2	61	0.00
3		Chloromethane	0.174	0.145	16.7	76	0.00
4		Vinyl chloride	0.207	0.176	15.0	63	0.00
5		Bromomethane	0.115	0.358	-211.3#	346#	0.00
6		Chloroethane	0.145	0.129	11.0	69	0.00
7		Trichlorofluoromethane	0.256	0.299	-16.8	78	0.00
8		Ethyl Ether	0.178	0.162	9.0	65	0.00
9		Freon 113	0.158	0.191	-20.9#	87	0.00
10		Acrolein	0.036	0.027	25.0#	57	0.00
11		Tert-Butyl alcohol	0.020	0.017	15.0	49#	0.00
12		1,1-Dichloroethene	0.182	0.185	-1.6	74	0.00
13		Iodomethane	0.211	0.324	-53.6#	269#	0.00
14		Acetonitrile	0.108	0.161	-49.1#	98	0.00
15		Methylene chloride	0.252	0.220	12.7	74	0.00
16		Trans-1,2-dichloroethene	0.209	0.219	-4.8	75	0.00
17		Isopropyl ether	0.812	0.775	4.6	67	0.00
18		1,1-Dichloroethane	0.374	0.404	-8.0	74	0.00
19		Acetone	0.095	0.063	33.7#	53	0.00
20		Methyl Acetate	0.186	0.176	5.4	52	0.00
21		MTBE	0.545	0.569	-4.4	71	0.00
22		Carbon disulfide	0.679	0.573	15.6	71	0.00
23		Allyl Chloride	0.000	0.000	0.0	93	0.00
24		Acrylonitrile	0.063	0.054	14.3	61	0.00
25		Chloroprene	0.357	0.328	8.1	70	0.00
26	T	n-Heptane	0.183	0.008	95.6#	3#	0.12
27		2,2-Dichloropropane	0.313	0.301	3.8	68	0.00
28		Cis-1,2-dichloroethene	0.253	0.250	1.2	75	0.00
29		1,2-dichloroethene(total)	0.268	0.241	10.1	75	0.00
30		Propionitrile	0.031	0.027	12.9	58	0.00
31		Bromochloromethane	0.109	0.137	-25.7#	88	0.00
32		Tetrahydrofuran	0.051	0.047	7.8	64	0.00
33		Chloroform	0.426	0.444	-4.2	84	0.00
34		Cyclohexane	0.392	0.349	11.0	74	0.00
35		1,1,1-Trichloroethane	0.318	0.363	-14.2	82	0.00
36		Carbon tetrachloride	0.272	0.329	-21.0#	86	0.00
37		Methacrylonitrile	0.170	0.163	4.1	71	0.00
38		Methylcyclohexane	0.338	0.339	-0.3	77	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	42#	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.282	-6.0	81	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
42		2-Butanone	0.163	0.119	27.0#	55	0.00
43		1,1-Dichloropropene	0.339	0.306	9.7	71	0.00
44		Vinyl Acetate	0.381	0.237	37.8#	51	0.00
45		Benzene	1.058	0.964	8.9	74	0.00
46		1,2-Dichloroethane	0.332	0.309	6.9	74	0.00
47		Trichloroethene	0.272	0.246	9.6	76	0.00
48		1,2-Dichloropropane	0.271	0.242	10.7	69	0.00
49		Methyl methacrylate	0.196	0.142	27.6#	61	0.00
50		Dibromomethane	0.167	0.155	7.2	75	0.00
51		Bromodichloromethane	0.354	0.368	-4.0	84	0.00
52		2-Chloroethylvinyl ether	0.108	0.045	58.3#	23#	0.00
53		Cis-1,3-dichloropropene	0.427	0.421	1.4	77	0.00
54	SS	Toluene-d8	1.159	1.276	-10.1	94	0.00
55		Toluene	0.694	0.765	-10.2	89	0.00
56		Trans-1,3-dichloropropene	0.387	0.368	4.9	73	0.00
57		Ethyl methacrylate	0.347	0.334	3.7	78	0.00
58		1,1,2-Trichloroethane	0.208	0.218	-4.8	85	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00
60		4-Methyl-2-pentanone	0.292	0.214	26.7#	72	0.00
61		2-Hexanone	0.210	0.149	29.0#	68	0.00
62		Tetrachloroethene	0.288	0.334	-16.0	118	0.00
63		1,3-Dichloropropane	0.416	0.360	13.5	86	0.00
64		Dibromochloromethane	0.301	0.290	3.7	97	0.00
65		1,2-Dibromoethane	0.257	0.218	15.2	87	0.00
66		1-Chlorohexane	0.432	0.347	19.7	86	0.00
67		Chlorobenzene	0.848	0.827	2.5	99	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.324	-6.6	107	0.00
69		Ethylbenzene	1.451	1.293	10.9	93	0.00
70		m,p-Xylene	0.570	0.575	-0.9	100	0.00
71		o-Xylene	0.578	0.541	6.4	97	0.00
72		Xylene (Total)	0.586	0.565	3.6	100	0.00
73		Styrene	0.960	0.910	5.2	96	0.00
74		Bromoform	0.187	0.190	-1.6	97	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.222	0.5	102	0.00
76	SS	4-Bromofluorobenzene	0.471	0.469	0.4	106	0.00
77		Bromobenzene	0.336	0.388	-15.5	118	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.275	16.7	83	0.00
79		1,2,3-Trichloropropane	0.098	0.094	4.1	97	0.00
80		n-Propylbenzene	1.700	1.597	6.1	96	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.052	37.3#	52	0.00
82		2-Chlorotoluene	0.361	0.384	-6.4	108	0.00
83		4-Chlorotoluene	0.374	0.404	-8.0	112	0.00
84		1,3,5-Trimethylbenzene	1.207	1.195	1.0	101	0.00
85		Tert-butylbenzene	1.049	1.109	-5.7	107	0.00
86		Pentachloroethane	0.000	0.000	0.0	111	0.00
87		1,2,4-Trimethylbenzene	1.254	1.259	-0.4	103	0.00
88		Sec-Butylbenzene	1.607	1.613	-0.4	101	0.00
89		1,3-Dichlorobenzene	0.706	0.821	-16.3	120	0.00
90		4-Isopropyltoluene	1.367	1.534	-12.2	110	0.00
91		1,4-Dichlorobenzene	0.708	0.821	-16.0	118	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.548	-18.6	127	0.00
93		1,2-Dichlorobenzene	0.674	0.758	-12.5	119	0.00
94		n-Butylbenzene	1.349	1.241	8.0	96	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.043	24.6#	75	0.00
96		1,2,4-Trichlorobenzene	0.409	0.447	-9.3	116	0.00
97		Hexachlorobutadiene	0.190	0.218	-14.7	119	0.00
98		Naphthalene	0.975	0.919	5.7	90	0.00
99		1,2,3-Trichlorobenzene	0.342	0.375	-9.6	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 30 12:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	73	0.00
2		Dichlorodifluoromethane	0.089	0.068	23.6#	51	0.00
3		Chloromethane	0.174	0.135	22.4#	68	0.00
4		Vinyl chloride	0.207	0.166	19.8	57	-0.01
5		Bromomethane	0.115	0.207	-80.0#	193#	0.00
6		Chloroethane	0.145	0.223	-53.8#	114	0.00
7		Trichlorofluoromethane	0.256	0.481	-87.9#	121	-0.01
8		Ethyl Ether	0.178	0.188	-5.6	72	0.00
9		Freon 113	0.158	0.215	-36.1#	95	-0.01
10		Acrolein	0.036	0.032	11.1	65	0.00
11		Tert-Butyl alcohol	0.020	0.020	0.0	55	0.00
12		1,1-Dichloroethene	0.182	0.198	-8.8	77	-0.01
13		Iodomethane	0.211	0.224	-6.2	179#	0.00
14		Acetonitrile	0.108	0.168	-55.6#	99	0.00
15		Methylene chloride	0.252	0.227	9.9	74	0.00
16		Trans-1,2-dichloroethene	0.209	0.226	-8.1	75	0.00
17		Isopropyl ether	0.812	0.818	-0.7	68	0.00
18		1,1-Dichloroethane	0.374	0.410	-9.6	73	0.00
19		Acetone	0.095	0.077	18.9	62	0.00
20		Methyl Acetate	0.186	0.217	-16.7	62	0.00
21		MTBE	0.545	0.644	-18.2	77	0.00
22		Carbon disulfide	0.679	0.554	18.4	66	-0.01
23		Allyl Chloride	0.000	0.000	0.0	93	0.00
24		Acrylonitrile	0.063	0.064	-1.6	69	0.00
25		Chloroprene	0.357	0.339	5.0	70	0.00
26	T	n-Heptane	0.183	0.006	96.7#	3#	0.12
27		2,2-Dichloropropane	0.313	0.311	0.6	68	0.00
28		Cis-1,2-dichloroethene	0.253	0.255	-0.8	74	0.00
29		1,2-dichloroethene(total)	0.268	0.248	7.5	75	0.00
30		Propionitrile	0.031	0.030	3.2	63	0.00
31		Bromochloromethane	0.109	0.154	-41.3#	95	0.00
32		Tetrahydrofuran	0.051	0.058	-13.7	76	0.00
33		Chloroform	0.426	0.465	-9.2	85	0.00
34		Cyclohexane	0.392	0.352	10.2	72	-0.01
35		1,1,1-Trichloroethane	0.318	0.375	-17.9	82	0.00
36		Carbon tetrachloride	0.272	0.366	-34.6#	92	0.00
37		Methacrylonitrile	0.170	0.187	-10.0	78	0.00
38		Methylcyclohexane	0.338	0.397	-17.5	87	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 30 12:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.011	26.7#	50#	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.276	-3.8	76	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
42		2-Butanone	0.163	0.143	12.3	64	0.00
43		1,1-Dichloropropene	0.339	0.312	8.0	71	0.00
44		Vinyl Acetate	0.381	0.252	33.9#	53	0.00
45		Benzene	1.058	0.961	9.2	72	0.00
46		1,2-Dichloroethane	0.332	0.321	3.3	75	0.00
47		Trichloroethene	0.272	0.272	0.0	82	0.00
48		1,2-Dichloropropane	0.271	0.271	0.0	76	0.00
49		Methyl methacrylate	0.196	0.190	3.1	79	0.00
50		Dibromomethane	0.167	0.182	-9.0	87	0.00
51		Bromodichloromethane	0.354	0.374	-5.6	83	0.00
52		2-Chloroethylvinyl ether	0.108	0.144	-33.3#	73	0.00
53		Cis-1,3-dichloropropene	0.427	0.430	-0.7	77	0.00
54	SS	Toluene-d8	1.159	1.254	-8.2	91	0.00
55		Toluene	0.694	0.759	-9.4	86	0.00
56		Trans-1,3-dichloropropene	0.387	0.408	-5.4	79	0.00
57		Ethyl methacrylate	0.347	0.361	-4.0	83	0.00
58		1,1,2-Trichloroethane	0.208	0.228	-9.6	87	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
60		4-Methyl-2-pentanone	0.292	0.255	12.7	81	0.00
61		2-Hexanone	0.210	0.178	15.2	77	0.00
62		Tetrachloroethene	0.288	0.381	-32.3#	128	0.00
63		1,3-Dichloropropane	0.416	0.373	10.3	85	0.00
64		Dibromochloromethane	0.301	0.310	-3.0	99	0.00
65		1,2-Dibromoethane	0.257	0.238	7.4	90	0.00
66		1-Chlorohexane	0.432	0.356	17.6	83	0.00
67		Chlorobenzene	0.848	0.867	-2.2	98	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.329	-8.2	103	0.00
69		Ethylbenzene	1.451	1.329	8.4	91	0.00
70		m,p-Xylene	0.570	0.571	-0.2	95	0.00
71		o-Xylene	0.578	0.555	4.0	95	0.00
72		Xylene (Total)	0.586	0.567	3.2	95	0.00
73		Styrene	0.960	0.939	2.2	94	0.00
74		Bromoform	0.187	0.205	-9.6	99	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 30 12:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.226	0.2	97	0.00
76	SS	4-Bromofluorobenzene	0.471	0.456	3.2	98	0.00
77		Bromobenzene	0.336	0.397	-18.2	115	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.306	7.3	88	0.00
79		1,2,3-Trichloropropane	0.098	0.102	-4.1	100	0.00
80		n-Propylbenzene	1.700	1.556	8.5	89	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.088	-6.0	83	0.00
82		2-Chlorotoluene	0.361	0.392	-8.6	105	0.00
83		4-Chlorotoluene	0.374	0.407	-8.8	107	0.00
84		1,3,5-Trimethylbenzene	1.207	1.199	0.7	96	0.00
85		Tert-butylbenzene	1.049	1.125	-7.2	103	0.00
86		Pentachloroethane	0.000	0.000	0.0	92	0.00
87		1,2,4-Trimethylbenzene	1.254	1.259	-0.4	98	0.00
88		Sec-Butylbenzene	1.607	1.641	-2.1	98	0.00
89		1,3-Dichlorobenzene	0.706	0.840	-19.0	117	0.00
90		4-Isopropyltoluene	1.367	1.576	-15.3	107	0.00
91		1,4-Dichlorobenzene	0.708	0.850	-20.1#	116	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.552	-19.5	122	0.00
93		1,2-Dichlorobenzene	0.674	0.799	-18.5	119	0.00
94		n-Butylbenzene	1.349	1.275	5.5	94	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.050	12.3	82	0.00
96		1,2,4-Trichlorobenzene	0.409	0.491	-20.0#	121	0.00
97		Hexachlorobutadiene	0.190	0.232	-22.1#	121	0.00
98		Naphthalene	0.975	1.154	-18.4	107	0.00
99		1,2,3-Trichlorobenzene	0.342	0.414	-21.1#	117	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : General Physics Corp.

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903020

Lab File ID: A62205.D BFB Injection Date : 03/10/2009 BFB Injection Time : 07:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.6	(.8)1
174	50.0 - 120.0% of mass 95	79.6	
175	5.0 - 9.0% of mass 174	5.9	(7.4)1
176	95.0 - 101.0% of mass 174	77.5	(97.3)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL01	CAL01	A62207.D	03/10/2009	08:49
2	CAL05	CAL05	A62209.D	03/10/2009	09:30
3	CAL20	CAL20	A62211.D	03/10/2009	11:03
4	CAL50	CAL50	A62213.D	03/10/2009	11:44
5	CAL100	CAL100	A62215.D	03/10/2009	12:49
6	CAL200	CAL200	A62219.D	03/10/2009	14:22
7	BLK108667	BLK108667	A62221.D	03/10/2009	15:35
8	BKS108667	BKS108667	A62223.D	03/10/2009	16:25
9	TB-030409	903020-001-001-1/2	A62225.D	03/10/2009	17:06
10	EFFg-030409	903020-004-003-1/3	A62227.D	03/10/2009	17:46
11	ACU2-030409	903020-005-006-1/3	A62229.D	03/10/2009	18:27
12	ACU1-030409	903020-006-009-1/3	A62231.D	03/10/2009	19:08

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 08:06:42 2009
Response Via : Initial Calibration

Calibration Files
1 =A62207.D 5 =A62209.D 20 =A62211.D 50 =A62213.D 100 =A62215.D
200 =A62219.D

		Compound	1	5	20	50	100	200	Avg	%R
D										
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluo...	0.067	0.085	0.103	0.098		0.090	0.089	15.40
3)		Chloromethane	0.188	0.181	0.173	0.145	0.159	0.199	0.174	11.27
4)		Vinyl chloride	0.220	0.190	0.192	0.211	0.214	0.214	0.207	6.19
5)		Bromomethane	0.218	0.069	0.099	0.078	0.114		0.115	~~51.60~~ r^2=0.995
6)		Chloroethane		0.144	0.142	0.142	0.141	0.157	0.145	4.69
7)		Trichlorofluor...	0.154	0.245	0.282	0.290	0.307		0.256	~~23.94~~ r^2=0.999
8)		Ethyl Ether	0.163	0.157	0.165	0.189	0.188	0.206	0.178	10.84
9)		Freon 113	0.153	0.135	0.174	0.165		0.165	0.158	9.58
10)		Acrolein		0.037	0.031	0.036	0.035	0.040	0.036	9.22
11)		Tert-Butyl alc...	0.016	0.021	0.018	0.026	0.021		0.020	18.36
12)		1,1-Dichloroet...	0.177	0.162	0.167	0.188	0.193	0.202	0.182	8.55
13)		Iodomethane	0.457	0.111	0.200	0.091	0.247	0.161	0.211	63.20
14)		Acetonitrile	0.079	0.075	0.093	0.124	0.139	0.138	0.108	~~26.99~~ r^2=0.999
15)		Methylene chlo...	0.375	0.222	0.213	0.224	0.235	0.243	0.252	~~24.26~~ r^2=0.999
16)		Trans-1,2-dich...	0.209	0.186	0.197	0.221	0.230		0.209	8.57
17)		Isopropyl ether	0.794	0.717	0.779	0.874	0.894		0.812	8.93
18)		1,1-Dichloroet...	0.325	0.334	0.368	0.411	0.431		0.374	12.44
19)		Acetone	0.151	0.086	0.070	0.091	0.084	0.086	0.095	~~30.23~~ r^2=0.999
20)		Methyl Acetate	0.225	0.217	0.185	0.256		0.048	0.186	~~43.60~~ r^2=0.993
21)		MTBE	0.473	0.510	0.527	0.610	0.604		0.545	11.02
22)		Carbon disulfide	1.024	0.568	0.589	0.610	0.643	0.638	0.679	~~25.30~~ r^2=0.999
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile		0.059	0.058	0.067	0.062	0.071	0.063	8.81
25)		Chloroprene	0.352	0.318	0.337	0.354	0.398	0.383	0.357	8.23
26)	T	n-Heptane	0.229	0.156	0.188	0.173	0.184	0.166	0.183	14.14
27)		2,2-Dichloropr...	0.284	0.268		0.334	0.340	0.338	0.313	10.86
28)		Cis-1,2-dichlo...	0.280	0.214		0.253	0.263	0.256	0.253	9.47
29)		1,2-dichloroet...	0.366		0.223	0.242	0.248	0.260	0.268	21.04
30)		Propionitrile	0.028	0.029	0.028	0.035	0.031	0.036	0.031	11.14
31)		Bromochloromet...	0.088	0.091	0.107	0.119	0.122	0.129	0.109	15.51
32)		Tetrahydrofuran	0.047	0.049	0.049	0.055	0.049	0.059	0.051	9.52
33)		Chloroform	0.515	0.347	0.353	0.399	0.446	0.498	0.426	16.82
34)		Cyclohexane	0.560	0.302	0.371	0.358	0.395	0.363	0.392	~~22.17~~ r^2=0.991
35)		1,1,1-Trichlor...	0.289	0.274	0.307	0.333	0.343	0.363	0.318	10.68
36)		Carbon tetrach...	0.218	0.240	0.265	0.290	0.310	0.313	0.272	14.18
37)		Methacrylonitrile	0.141		0.144	0.175	0.176	0.213	0.170	17.12
38)		Methylcyclohexane	0.360	0.292	0.354	0.333	0.373	0.318	0.338	8.82
39)		Isobutyl Alcohol	0.011	0.014	0.017	0.016		0.015	0.015	15.42
40)	SS	1,2-Dichloroet...	0.258	0.262	0.263	0.265	0.265	0.282	0.266	3.13
41)		1,4-Difluorobenzene	ISTD							
42)		2-Butanone	0.150	0.152	0.146	0.185	0.166	0.178	0.163	9.84

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

43)		1,1-Dichloropr...	0.270	0.305	0.331	0.370	0.377	0.381	0.339	13.34
44)		Vinyl Acetate	0.369	0.357		0.401	0.394	0.386	0.381	4.81
45)		Benzene	0.924	0.932	1.027	1.118	1.156	1.192	1.058	10.86
46)		1,2-Dichloroet...	0.277	0.295	0.324	0.359	0.360	0.376	0.332	12.02
47)		Trichloroethene	0.269	0.243	0.263	0.278	0.289	0.289	0.272	6.46
48)		1,2-Dichloropr...	0.226	0.230	0.263	0.298	0.305	0.305	0.271	13.65
49)		Methyl methacr...	0.215	0.205	0.171	0.201	0.185	0.202	0.196	8.01
50)		Dibromomethane	0.171	0.151	0.147	0.176	0.172	0.184	0.167	8.78
51)		Bromodichlorom...	0.338	0.315	0.334	0.376	0.376	0.385	0.354	8.07
52)		2-Chloroethylv...	0.027	0.143	0.149	0.165	0.057	0.106	0.108	51.45
53)		Cis-1,3-dichlo...	0.340	0.361		0.469	0.471	0.491	0.427	16.46
54)	SS	Toluene-d8	1.125	1.133	1.141	1.158	1.177	1.218	1.159	2.99
55)		Toluene	0.589	0.599	0.664	0.740	0.763	0.807	0.694	13.02
56)		Trans-1,3-dich...	0.273	0.355		0.433	0.417	0.455	0.387	18.95
57)		Ethyl methacry...	0.347	0.304	0.324	0.365	0.358	0.385	0.347	8.47
58)		1,1,2-Trichlor...	0.183	0.186		0.220	0.217	0.234	0.208	10.71
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)		4-Methyl-2-pen...	0.272	0.284	0.284	0.321	0.289	0.300	0.292	5.85
61)		2-Hexanone	0.175	0.219	0.196	0.238	0.214	0.220	0.210	10.29
62)		Tetrachloroethene	0.228	0.256	0.285	0.305	0.324	0.332	0.288	13.99
63)		1,3-Dichloropr...	0.361	0.399	0.395	0.451	0.441	0.448	0.416	8.74
64)		Dibromochlorom...	0.245	0.291	0.291	0.322	0.324	0.334	0.301	10.93
65)		1,2-Dibromoethane	0.246	0.242	0.248	0.270	0.266	0.271	0.257	5.13
66)		1-Chlorohexane	0.470	0.400	0.409	0.437	0.441	0.437	0.432	5.79
67)		Chlorobenzene	0.748	0.753	0.821	0.906	0.935	0.925	0.848	10.10
68)		1,1,1,2-Tetrac...	0.248	0.259	0.292	0.328	0.342	0.354	0.304	14.65
69)		Ethylbenzene	1.318	1.300	1.394	1.507	1.582	1.607	1.451	9.15
70)		m,p-Xylene	0.510	0.513	0.560	0.618	0.648		0.570	10.86
71)		o-Xylene	0.551	0.505	0.566	0.601	0.624	0.620	0.578	7.95
72)		Xylene (Total)	0.524	0.511	0.564	0.613	0.641	0.662	0.586	10.68
73)		Styrene	0.827	0.857	0.930	1.024	1.062	1.060	0.960	10.80
74)		Bromoform	0.149	0.175	0.176	0.212	0.200	0.209	0.187	13.15
75)		Isopropylbenzene	1.052	1.108	1.196	1.299	1.367	1.346	1.228	10.60
76)	SS	4-Bromofluorob...	0.468	0.466	0.474	0.477	0.477	0.465	0.471	1.16
77)		Bromobenzene	0.300	0.296	0.326	0.356	0.370	0.370	0.336	10.07
78)		1,1,2,2-Tetrac...	0.317	0.314	0.308	0.356	0.339	0.347	0.330	6.00
79)		1,2,3-Trichlor...	0.091	0.103	0.091	0.105	0.098	0.101	0.098	6.04
80)		n-Propylbenzene	1.522	1.538	1.655	1.792	1.853	1.840	1.700	8.79
81)		Trans-1,4-dich...	0.066	0.099	0.064	0.109	0.074	0.088	0.083	~~21.93~~ r^2=0.9987
82)		2-Chlorotoluene	0.338	0.323	0.352	0.384	0.388	0.378	0.361	7.43
83)		4-Chlorotoluene	0.354	0.335	0.356	0.391	0.407	0.403	0.374	7.96
84)		1,3,5-Trimethy...	1.021	1.048	1.163	1.281	1.369	1.359	1.207	12.65
85)		Tert-butylbenzene	0.855	0.919	1.011	1.122	1.196	1.189	1.049	13.66
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.051	1.091	1.184	1.318	1.418	1.460	1.254	13.63
88)		Sec-Butylbenzene	1.363	1.379	1.554	1.726	1.836	1.785	1.607	12.83
89)		1,3-Dichlorobe...	0.581	0.583	0.663	0.740	0.804	0.864	0.706	16.56
90)		4-Isopropyltol...	1.162	1.185	1.338	1.507	1.641		1.367	15.11
91)		1,4-Dichlorobe...	0.581	0.624	0.679	0.749	0.800	0.815	0.708	13.52
92)	SS	1,2-Dichlorobe...	0.439	0.440	0.457	0.465	0.487	0.486	0.462	4.56
93)		1,2-Dichlorobe...	0.614	0.556		0.688	0.756	0.756	0.674	13.10
94)		n-Butylbenzene	1.300	1.191	1.253	1.396	1.500	1.454	1.349	8.94
95)		1,2-Dibromo-3-...	0.051	0.056	0.051	0.062	0.057	0.063	0.057	9.21
96)		1,2,4-Trichlor...	0.405	0.335	0.363	0.417	0.452	0.481	0.409	13.24

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

97)	Hexachlorobuta...	0.192	0.145	0.170	0.197	0.215	0.224	0.190	15.45
98)	Naphthalene	0.824	0.898	0.877	1.102	1.033	1.113	0.975	12.73
99)	1,2,3-Trichlor...	0.323	0.289	0.308	0.362	0.371	0.400	0.342	12.35

(#) = Out of Range

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903124

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-152GW47-0309	10.4	10.6	2.03	15%
Nitrite-N	E300.0	OU1-152GW47-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-152GW47-0309	BQL	BQL	N/C	15%
Chloride	E300.0	OU1-152GW71-0309	8.43	8.28	1.78	15%
Nitrite-N	E300.0	OU1-152GW71-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-152GW71-0309	BQL	BQL	N/C	15%

RPD - 0 out of 6 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-152GW47-0309	10.4	23.0	10.0	126*	90 - 110%
Nitrite-N	E300.0	OU1-152GW47-0309	0.00	1.10	1.00	110	90 - 110%
Nitrate-N	E300.0	OU1-152GW47-0309	0.00	0.872	1.00	87.2*	90 - 110%
Chloride	E300.0	OU1-152GW71-0309	8.43	19.6	10.0	112*	90 - 110%
Nitrite-N	E300.0	OU1-152GW71-0309	0.00	1.29	1.00	129*	90 - 110%
Nitrate-N	E300.0	OU1-152GW71-0309	0.00	0.951	1.00	95.1	90 - 110%

Recovery - 4 out of 6 outside control limits

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903124 STD Solution ID: 45325/45405

3/18/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL4	Chloride	1.25	1.24	99.3	90 - 110%
	Nitrite-N	1.25	1.21	96.5	90 - 110%
	Nitrate-N	1.25	1.31	105	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL5	Chloride	1.25	1.23	98.4	90 - 110%
	Nitrite-N	1.25	1.25	100	90 - 110%
	Nitrate-N	1.25	1.21	96.9	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL6	Chloride	1.25	1.25	100	90 - 110%
	Nitrite-N	1.25	1.27	102	90 - 110%
	Nitrate-N	1.25	1.22	97.4	90 - 110%

3/30/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVL	Chloride	1.25	1.24	98.9	90 - 110%
	Nitrite-N	1.25	1.23	98.3	90 - 110%
	Nitrate-N	1.25	1.22	97.7	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	Chloride	1.25	1.26	101	90 - 110%
	Nitrite-N	1.25	1.25	100	90 - 110%
	Nitrate-N	1.25	1.21	97.0	90 - 110%

3/18/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	Chloride	20.0	20.5	103	90 - 110%
	Nitrate-N	20.0	22.3	112*	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH5	Chloride	20.0	19.2	96.0	90 - 110%
	Nitrate-N	20.0	19.5	97.7	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH6	Chloride	20.0	19.2	96.2	90 - 110%
	Nitrate-N	20.0	19.6	97.8	90 - 110%

3/30/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVH	Chloride	20.0	20.3	101	90 - 110%
	Nitrate-N	20.0	20.2	101	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	Chloride	20.0	20.2	101	90 - 110%
	Nitrate-N	20.0	20.2	101	90 - 110%

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories

Client: CH2M Hill

QC Sample ID: #45307/#44035

LCSL (3/18/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	144	91.1	85 - 115%
Nitrite-N	732	685	93.6	85 - 115%
Nitrate-N	187	168	89.7	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/18/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	148	93.8	85 - 115%
Nitrate-N	187	176	93.9	85 - 115%

Recovery - 0 out of 2 outside Control Limits

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

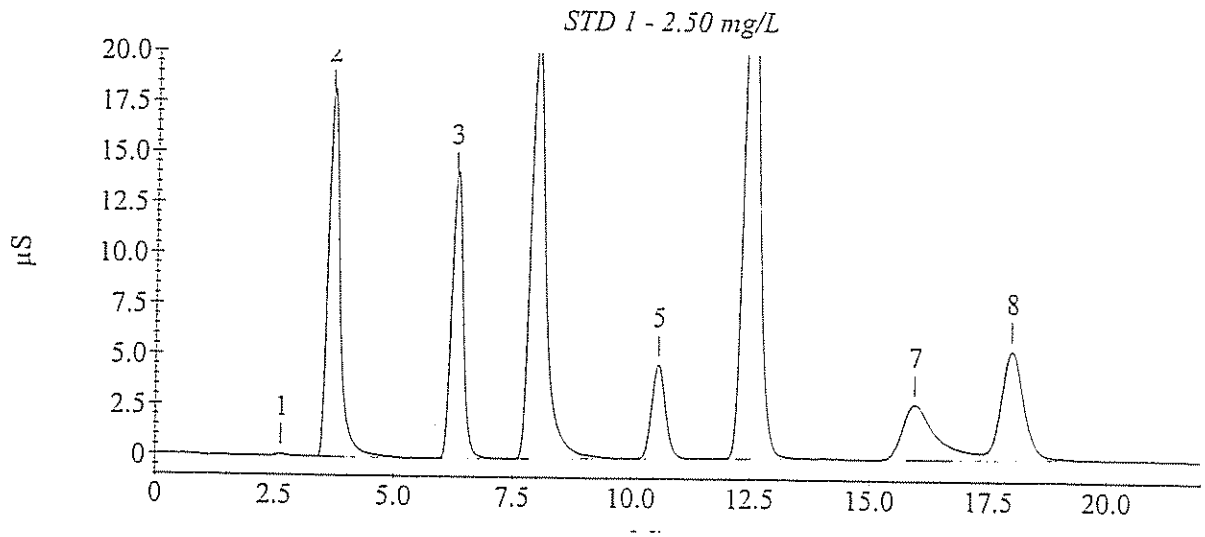
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



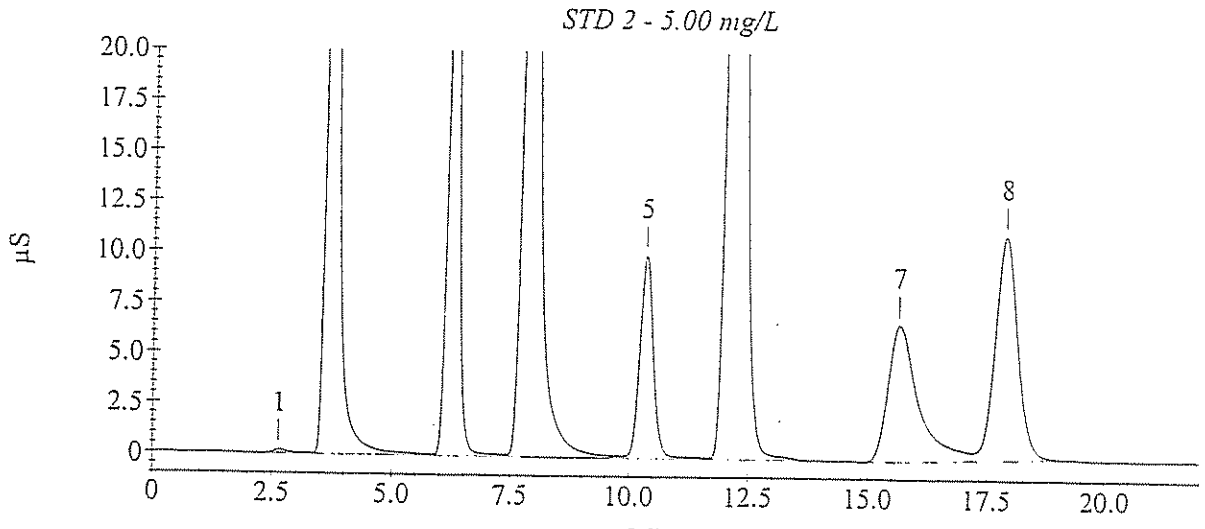
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077



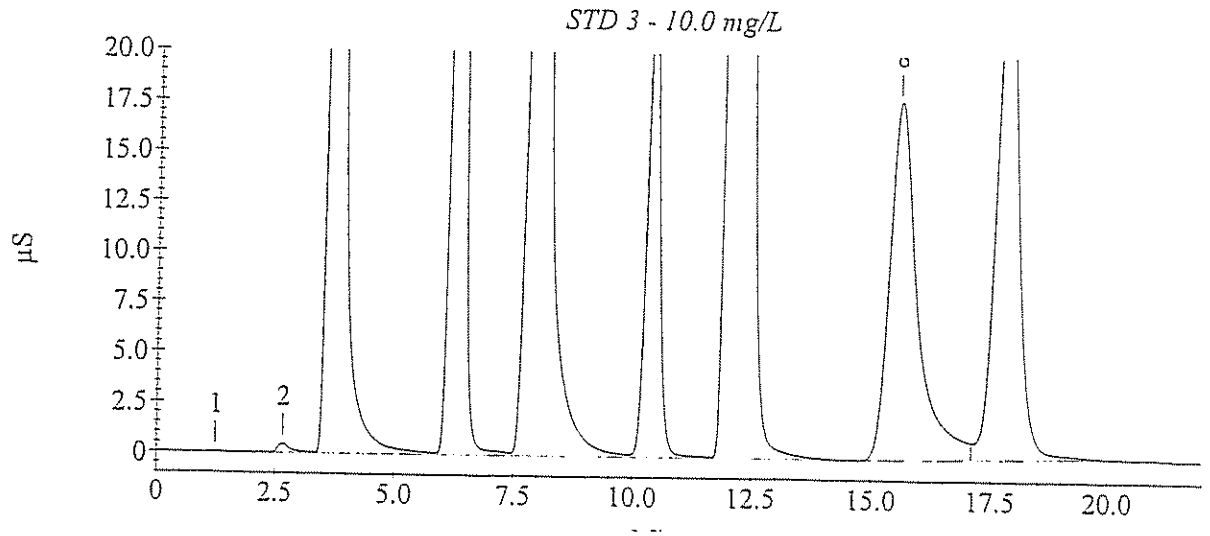
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944



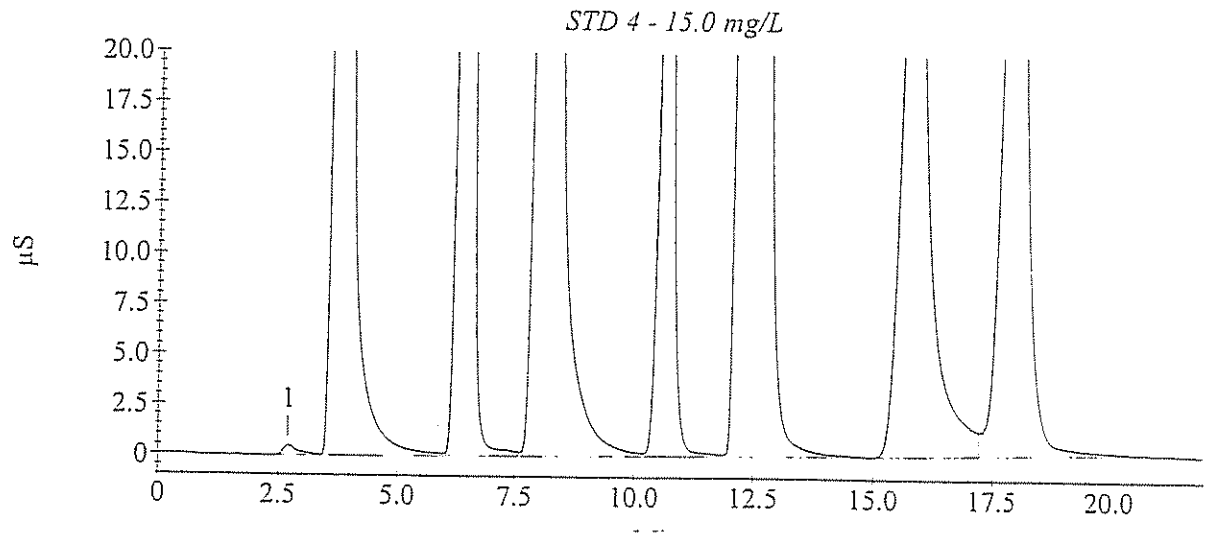
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



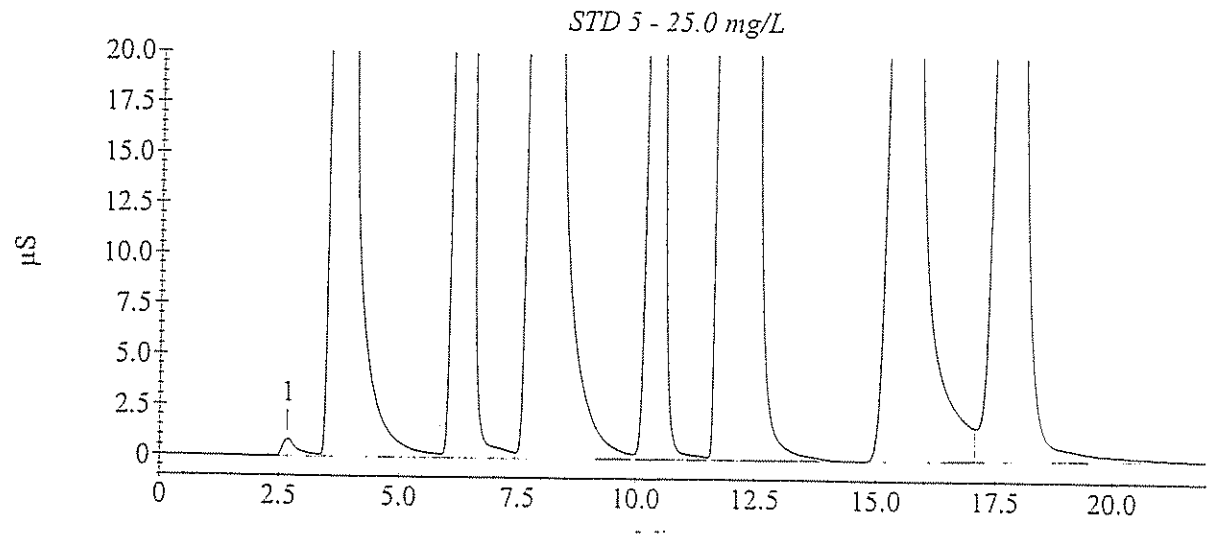
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



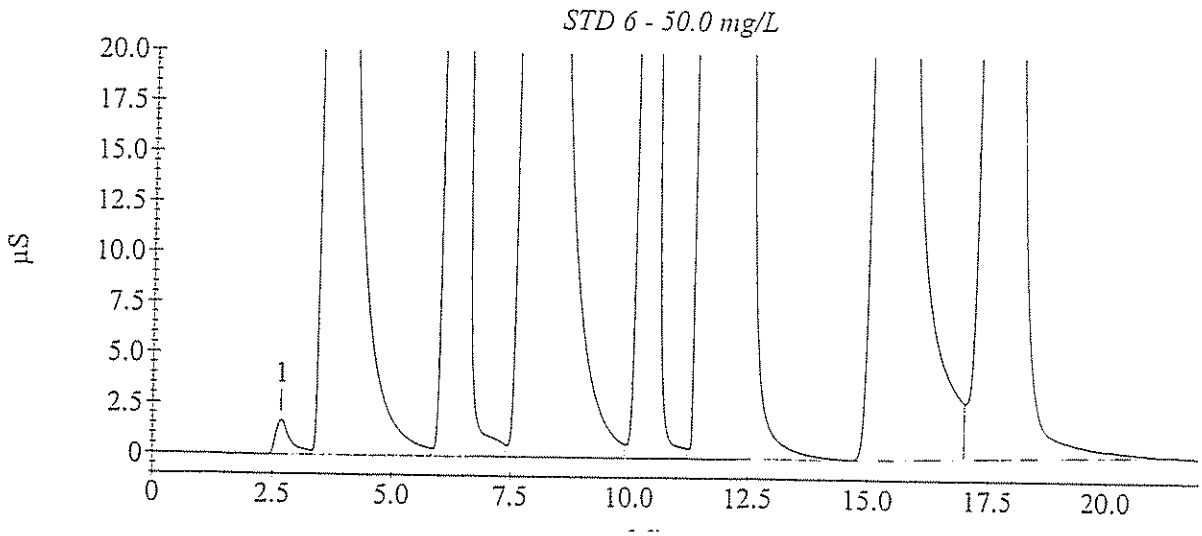
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829



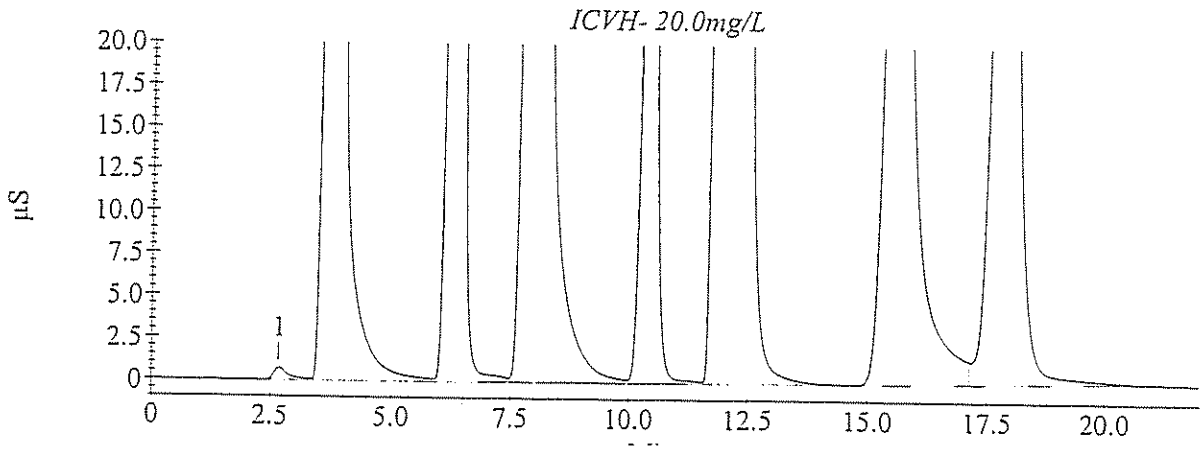
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.67 min	1.00 min	
Chloride	6.20 min	1.00 min	
Nitrite-N	7.83 min	1.00 min	
Bromide	10.33 min	1.00 min	
Nitrate-N	12.20 min	1.00 min	
Phosphate-P	15.67 min	5.00 min	
Sulfate	17.80 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.67 min	0	0
Chloride	6.20 min	0	0
Nitrite-N	7.83 min	0	0
Bromide	10.33 min	0	0
Nitrate-N	12.20 min	0	0
Phosphate-P	15.67 min	0	0
Sulfate	17.80 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.67 min	Linear	Ignore	Area		0.00
Chloride	6.20 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	7.83 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.33 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.20 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.67 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.80 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	21958
2	0.10	135267
3	0.25	287985
4	0.50	546281
5	1.00	1.21146e+006
6	2.50	3.07327e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	104137
3	0.25	210975
4	0.50	423601
5	1.00	886345
6	2.50	2.27702e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 7.83 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	62855.3
2	0.10	238116
3	0.25	487595
4	0.50	880655
5	1.00	1.79323e+006
6	2.50	4.50791e+006

CD20 Component = Bromide Levels Table

Retention Time : 10.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	36053.3
3	0.25	87423.9
4	0.50	184692
5	1.00	378819
6	2.50	940431

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	198696
3	0.25	532712
4	0.50	1.03372e+006
5	1.00	2.36629e+006
6	2.50	6.12422e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	8388.6
2	0.10	29693.1
3	0.25	120423
4	0.50	216150
5	1.00	493533
6	2.50	1.34148e+006

CD20 Component = Sulfate Levels Table

Retention Time : 17.80 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	79015.6
3	0.25	193779
4	0.50	348721
5	1.00	729749
6	2.50	1.79531e+006

CD20 XY Data Parameters

Calibration Update Report

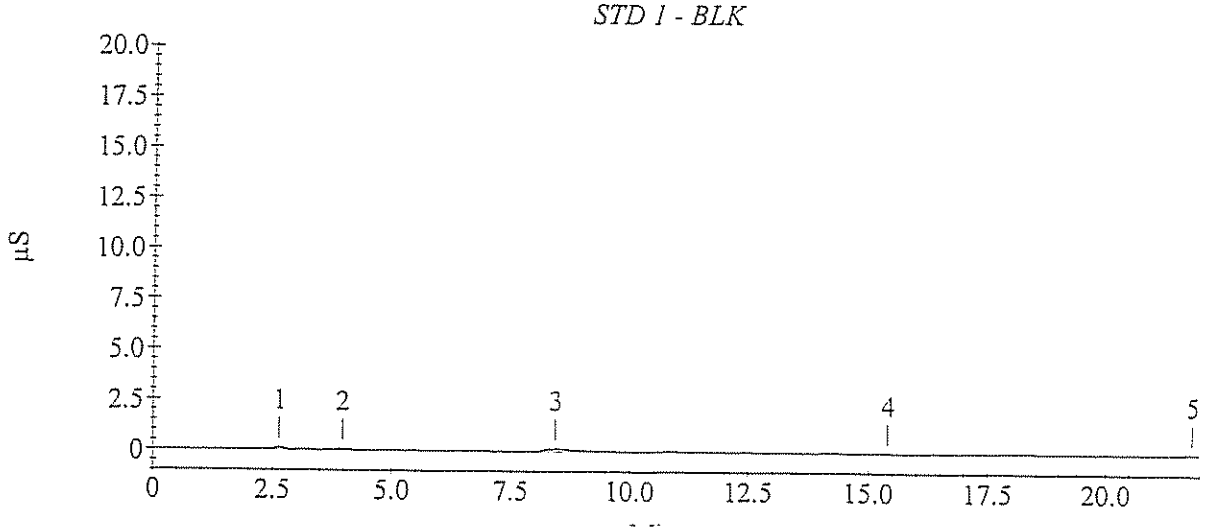
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\090318\090318__005.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:30:43 PM
Calibration Date : 3/19/09 9:53:29 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride Chloride	3.97	4957	21958	21958
3	Nitrite-N Bromide Nitrate-N	8.43	13027	62855	62855
4	Phosphate-P Sulfate	15.40	7303	8389	8389

STD 1 - BLK



Calibration Update Report

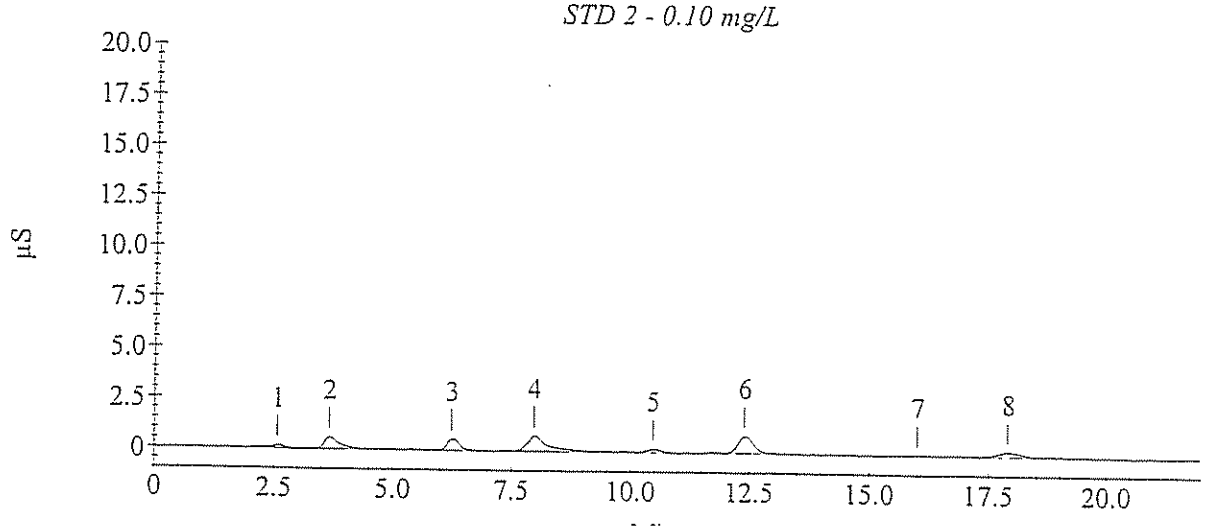
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__006.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:55:47 PM
Calibration Date : 3/19/09 10:00:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	109547	135267	135267
3	Chloride	6.23	77116	104137	104137
4	Nitrite-N	7.97	159558	238116	238116
5	Bromide	10.47	38327	36053	36053
6	Nitrate-N	12.40	205502	198696	198696
7	Phosphate-P	16.00	67440	29693	29693
8	Sulfate	17.90	53957	79016	79016

STD 2 - 0.10 mg/L



Calibration Update Report

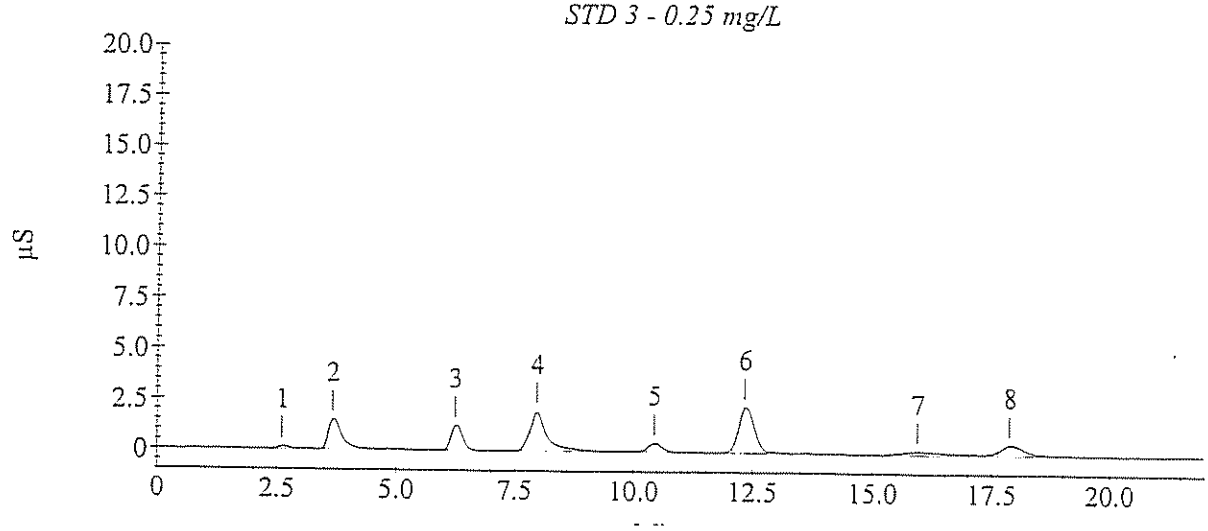
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__007.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:20:51 PM
Calibration Date : 3/19/09 9:16:23 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	277132	287985	287985
3	Chloride	6.23	197410	210975	210975
4	Nitrite-N	7.97	359105	487595	487595
5	Bromide	10.43	88554	87424	87424
6	Nitrate-N	12.33	506529	532712	532712
7	Phosphate-P	15.93	165945	120423	120423
8	Sulfate	17.87	139751	193779	193779

STD 3 - 0.25 mg/L



Calibration Update Report

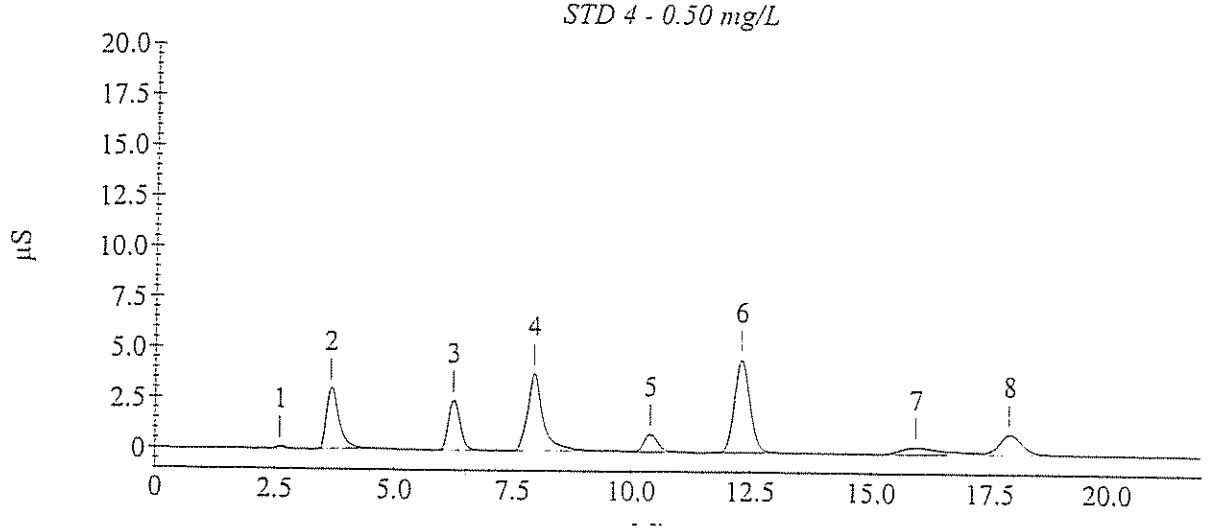
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__008.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:45:56 PM
Calibration Date : 3/19/09 9:16:47 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	557311	546281	546281
3	Chloride	6.23	408470	423601	423601
4	Nitrite-N	7.93	820570	880655	880655
5	Bromide	10.40	165498	184692	184692
6	Nitrate-N	12.30	970676	1033717	1033717
7	Phosphate-P	15.93	353067	216150	216150
8	Sulfate	17.90	274835	348721	348721

STD 4 - 0.50 mg/L



Calibration Update Report

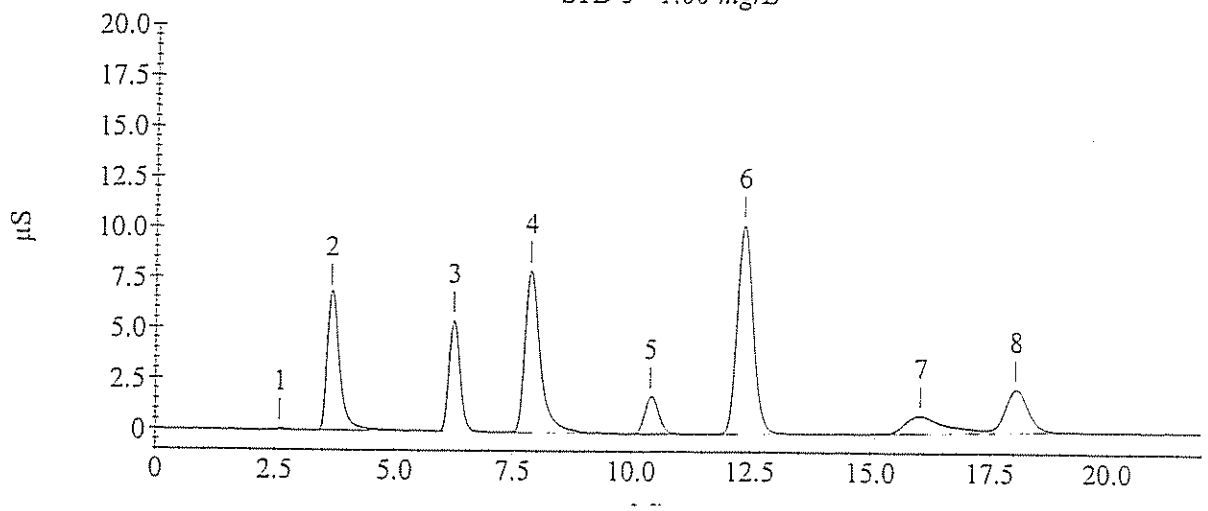
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__009.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:11:03 PM
Calibration Date : 3/19/09 9:17:01 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	1241286	1211455	1211455
3	Chloride	6.23	836176	886345	886345
4	Nitrite-N	7.87	1743424	1793231	1793231
5	Bromide	10.40	356395	378819	378819
6	Nitrate-N	12.37	2165069	2366291	2366291
7	Phosphate-P	16.03	734622	493533	493533
8	Sulfate	18.03	612643	729749	729749

STD 5 - 1.00 mg/L



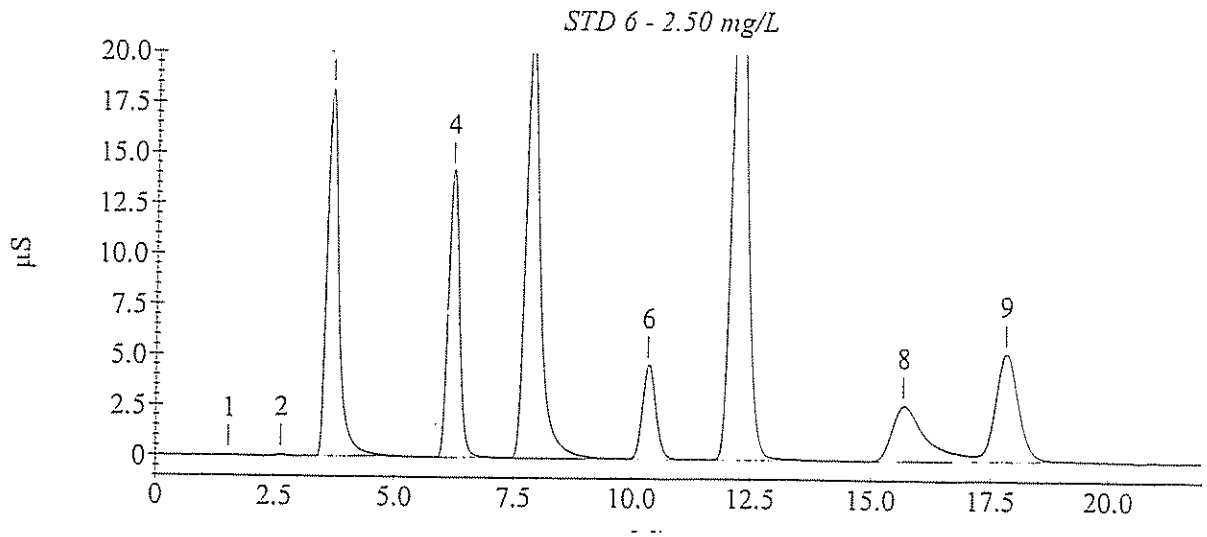
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__010.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:36:08 PM
Calibration Date : 3/19/09 9:17:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.67	3200757	3073266	3073266
4	Chloride	6.20	2128443	2277017	2277017
5	Nitrite-N	7.83	4384638	4507913	4507913
6	Bromide	10.33	912041	940431	940431
7	Nitrate-N	12.20	6057211	6124224	6124224
8	Phosphate-P	15.67	1937708	1341477	1341477
9	Sulfate	17.80	1520461	1795309	1795309



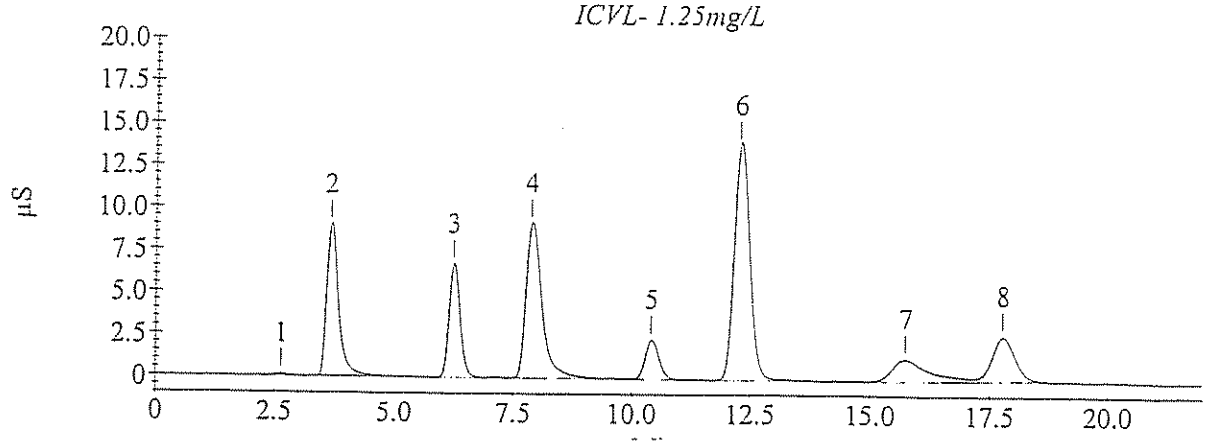
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__017.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/18/09 6:31:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.283	1565911	89179
3	Chloride	6.23	1.228	1107725	66995
4	Nitrite-N	7.87	1.169	2120349	91415
5	Bromide	10.40	1.243	466511	23016
6	Nitrate-N	12.27	1.307	3138229	138573
7	Phosphate-P	15.73	1.340	701225	13082
8	Sulfate	17.77	1.256	905537	26377



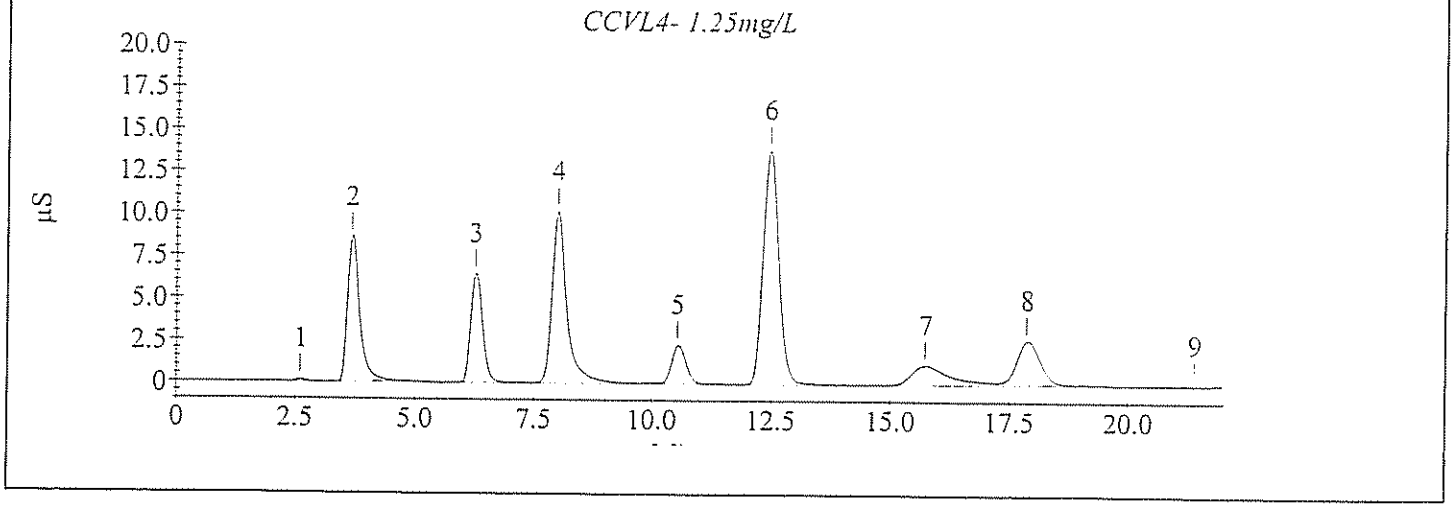
Sample Analysis Report

Sample Name : CCVL4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__069.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/19/09 6:10:54 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.252	1527641	84961
3	Chloride	6.27	1.241	1119338	64077
4	Nitrite-N	8.00	1.206	2185117	101260
5	Bromide	10.53	1.252	470063	22596
6	Nitrate-N	12.47	1.311	3148602	138354
7	Phosphate-P	15.73	1.266	661248	11562
8	Sulfate	17.87	1.226	884043	26061



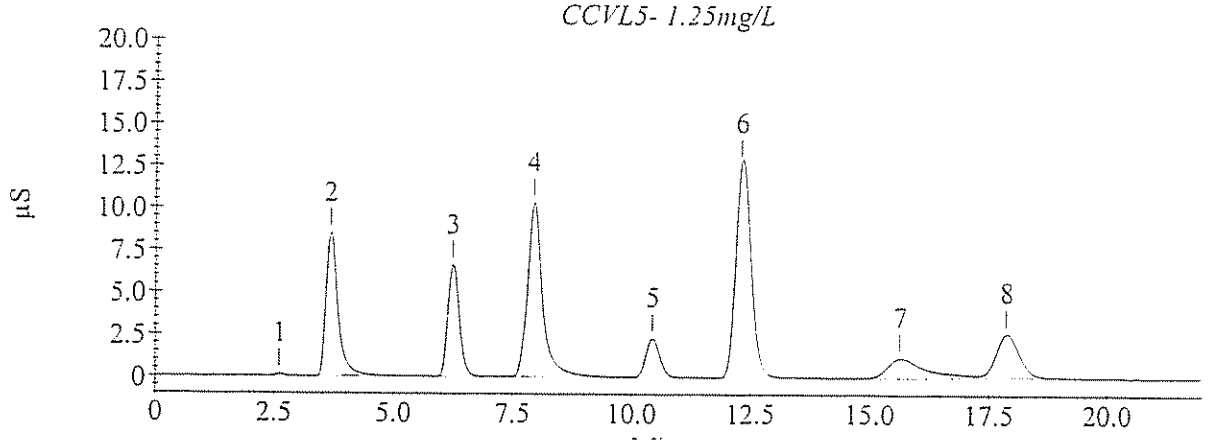
Sample Analysis Report

Sample Name : CCVL5- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__083.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/20/09 12:02:00 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.231	1501750	84233
3	Chloride	6.23	1.230	1109631	65603
4	Nitrite-N	7.93	1.246	2256803	102863
5	Bromide	10.43	1.269	476184	23013
6	Nitrate-N	12.30	1.211	2899459	126558
7	Phosphate-P	15.63	1.274	665210	11776
8	Sulfate	17.87	1.207	870814	25849



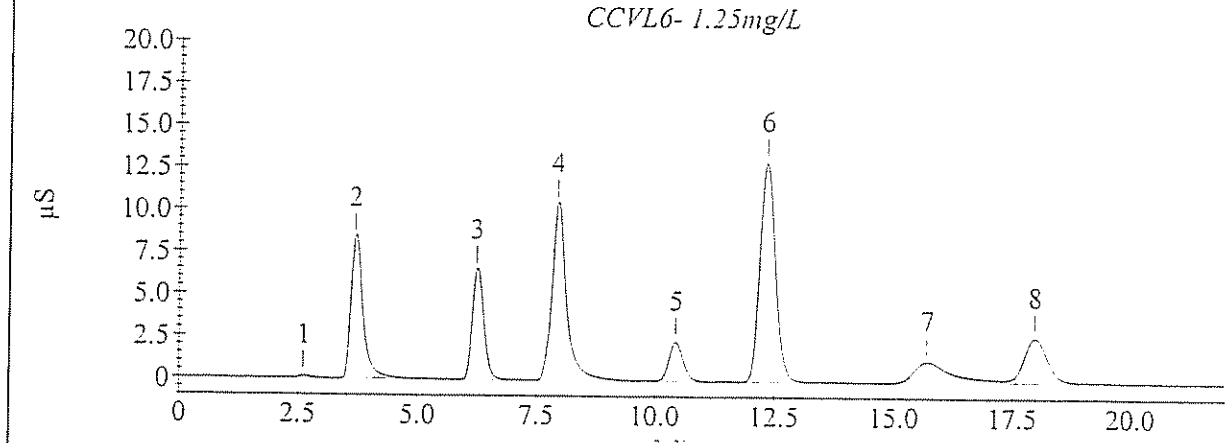
Sample Analysis Report

Sample Name : CCVL6- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__093.DXD

Method File Name : h:\icdata\methods\method 300\090318I-300-0.met
Date Time Collected : 3/20/09 4:12:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.240	1512643	82958
3	Chloride	6.23	1.252	1129015	64740
4	Nitrite-N	7.93	1.269	2297195	104371
5	Bromide	10.43	1.275	478713	23249
6	Nitrate-N	12.33	1.218	2916243	129805
7	Phosphate-P	15.70	1.377	721233	12554
8	Sulfate	17.97	1.265	911786	26450



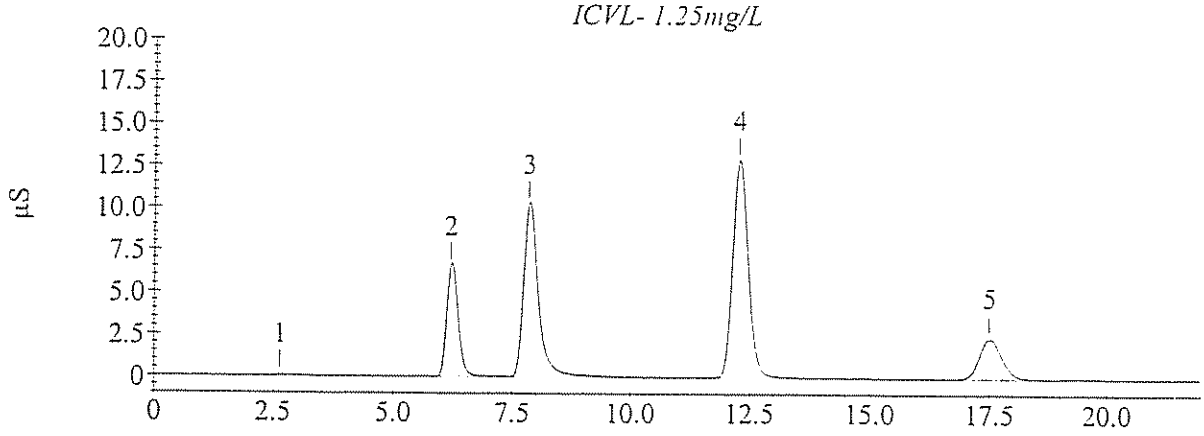
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__002.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/30/09 5:01:22 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	9997	569
2	Chloride	6.20	1.236	1114816	64847
3	Nitrite-N Bromide	7.83	1.229	2225878	101293
4	Nitrate-N Phosphate-P	12.27	1.221	2923807	127937
5	Sulfate	17.50	1.090	786840	23760



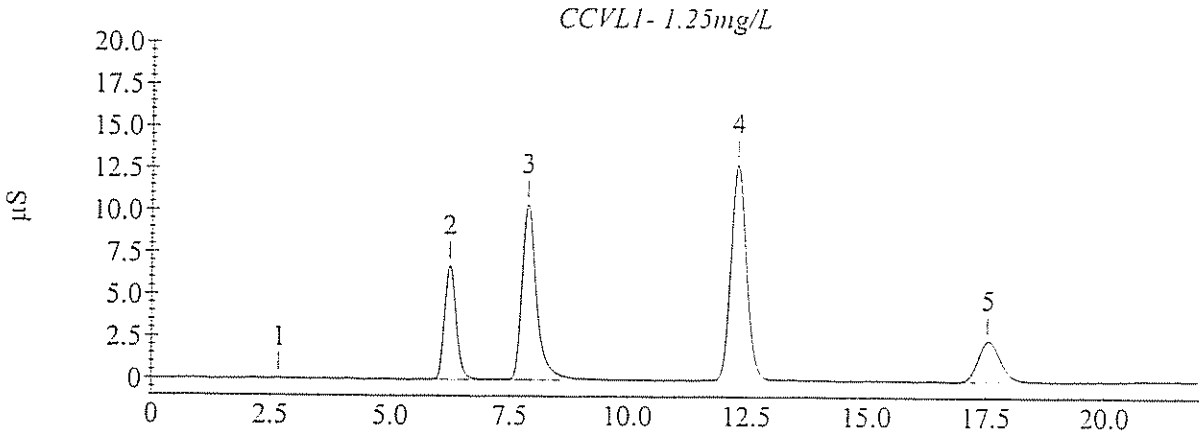
Sample Analysis Report

Sample Name : CCVL1- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__015.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/30/09 10:25:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	5538	485
2	Chloride	6.23	1.258	1134603	67089
3	Nitrite-N Bromide	7.87	1.246	2256217	103754
4	Nitrate-N Phosphate-P	12.30	1.213	2904837	128028
5	Sulfate	17.53	1.090	786906	23916



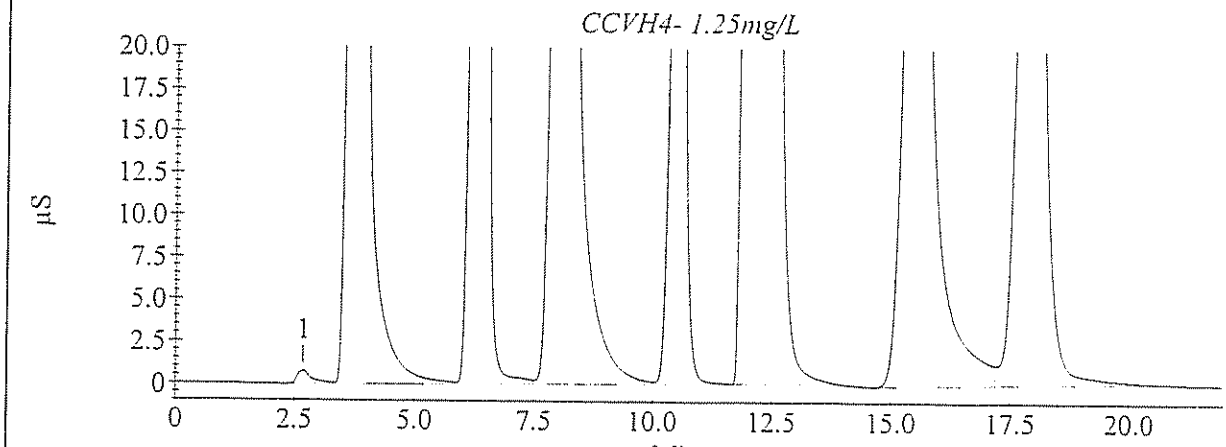
Sample Analysis Report

Sample Name : CCVH4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__070.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/19/09 6:35:59 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	21.091	29207590	1425211
3	Chloride	6.30	20.517	26317478	1437686
4	Nitrite-N	8.07	25.888	36821309	1587946
5	Bromide	10.47	19.936	10362459	573695
6	Nitrate-N	12.00	22.340	75176502	2489873
7	Phosphate-P	15.47	20.058	18743158	496916
8	Sulfate	17.83	20.179	18921965	580441



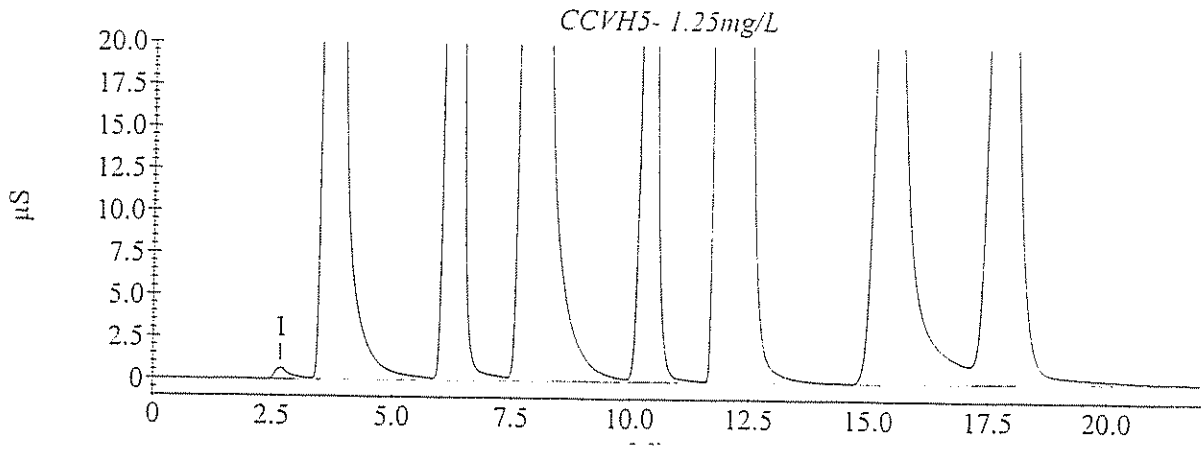
Sample Analysis Report

Sample Name : CCVH5- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__084.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/20/09 12:27:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	19.330	26977573	1379507
3	Chloride	6.23	19.193	24495378	1455009
4	Nitrite-N	8.00	26.189	37209497	1337235
5	Bromide	10.33	18.568	9575713	521131
6	Nitrate-N	11.90	19.539	65265056	2270088
7	Phosphate-P	15.33	18.774	17351243	475868
8	Sulfate	17.73	18.733	17441575	529830



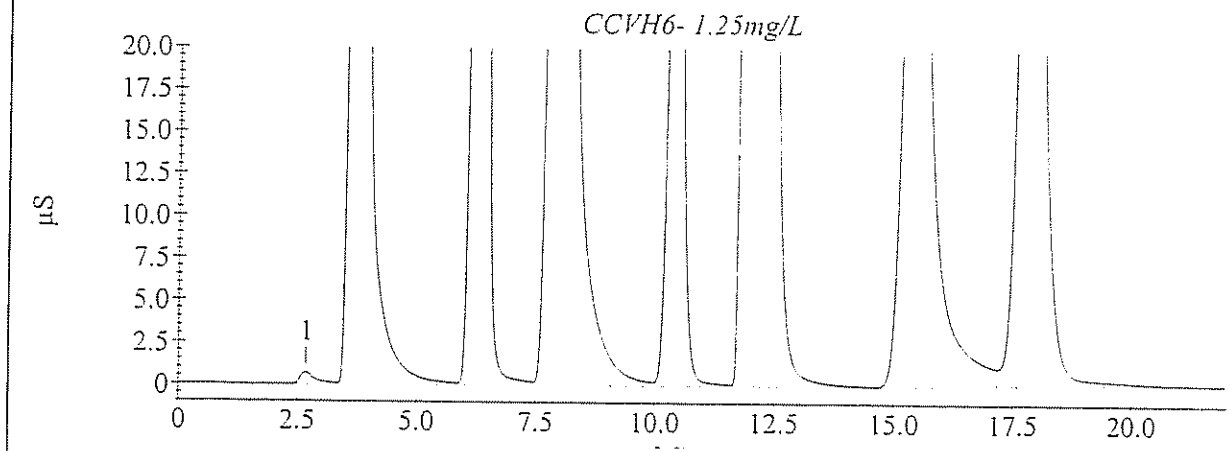
Sample Analysis Report

Sample Name : CCVH6- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__094.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/20/09 4:37:54 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	19.403	27071133	1354568
3	Chloride	6.27	19.245	24567918	1449312
4	Nitrite-N	8.00	26.003	36969470	1496949
5	Bromide	10.37	18.661	9629054	525372
6	Nitrate-N	11.93	19.550	65302572	2280816
7	Phosphate-P	15.37	18.824	17405620	471689
8	Sulfate	17.80	18.599	17304970	533572



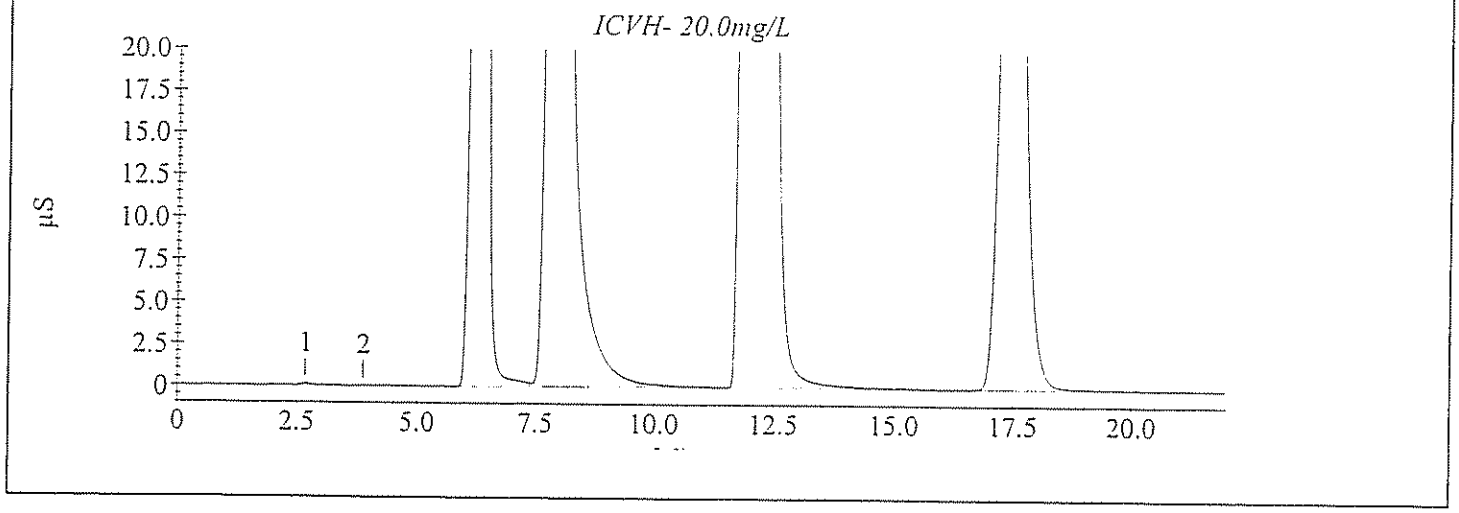
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__003.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/30/09 5:26:21 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.87	0.626	5039	330
3	Chloride	6.27	20.279	25989547	1608966
4	Nitrite-N Bromide	7.87	26.713	37883822	1626345
5	Nitrate-N Phosphate-P	11.90	20.193	67577828	2299168
6	Sulfate	17.40	17.387	16064747	524215



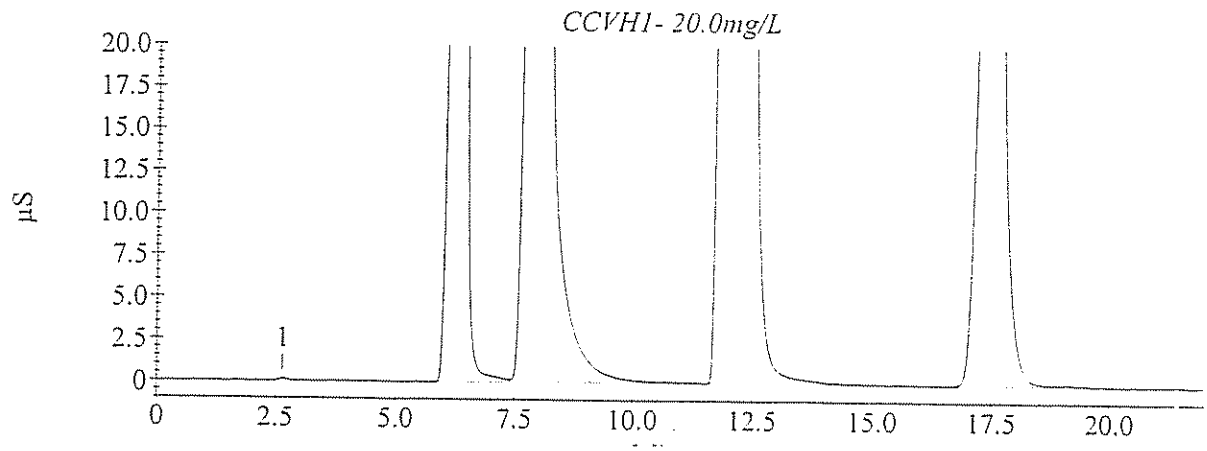
Sample Analysis Report

Sample Name : CCVH1- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/30/09 10:50:36 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	18172	1292
2	Chloride	6.27	20.229	25921103	1597396
3	Nitrite-N Bromide	7.87	26.705	37873038	1622801
4	Nitrate-N Phosphate-P	11.90	20.204	67615911	2304509
5	Sulfate	17.40	17.340	16016482	523187



SAMPLE DATA PACKAGE

RSK 175

GPL Laboratories, LLLP

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903098-012-111-2/6MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	310	310	0.0	290	290	94	94	0	25	80-120
Ethene	290	290	0.0	280	280	97	97	0	25	80-120
Methane	160	160	140	250	250	69 *	69 *	0	25	80-120

* Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 2 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108914

Lab Name : GPL Laboratories Client. : CH2M Hill Inc

Lab Code : GPL SAS NO. : 903124

Lab File ID : G262729.D SDG NO : 903124

Date Analyzed 03/31/2009 Lab Sample ID : BLK108914

GC Column : _____ ID. RTX_VC Time Analyzed : 07:25

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-52GW39-0309	903124-007-068-1/2	G262743.D	11:37
OU1-52GW39-0309DL	903124-007-069-2/2	G262745.D	12:08
OU1-52GW42-0309	903124-003-060-1/2	G262734.D	09:20
OU1-52GW42-0309DL	903124-003-061-2/2	G262736.D	09:51
OU1-52GW47-0309	903124-001-056-1/2	G262730.D	07:41
OU1-52GW47-0309DL	903124-001-057-2/2	G262732.D	08:15
OU1-52GW48-0309	903124-005-064-1/2	G262737.D	10:08
OU1-52GW48-0309DL	903124-005-065-2/2	G262741.D	11:07
OU1-52GW55-0309	903124-009-072-1/2	G262747.D	12:51
OU1-52GW55-0309DL	903124-009-073-2/2	G262749.D	13:23
OU1-52GW56-0309	903124-006-066-1/2	G262738.D	10:22
OU1-52GW56-0309DL	903124-006-067-2/2	G262742.D	11:22
OU1-52GW57-0309	903124-010-074-1/2	G262748.D	13:06
OU1-52GW57-0309DL	903124-010-075-2/2	G262750.D	13:37
OU1-52GW58-0309	903124-008-070-1/2	G262744.D	11:51
OU1-52GW58-0309DL	903124-008-071-2/2	G262746.D	12:22
OU1-52GW71-0309	903124-002-058-1/2	G262731.D	07:57
OU1-52GW71-0309DL	903124-002-059-2/2	G262733.D	08:29
OU1-52GW72-0309	903124-004-062-1/2	G262735.D	09:37

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108915

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Lab File ID :	G262753.D	SDG NO :	903124
Date Analyzed	03/31/2009	Lab Sample ID :	BLK108915
GC Column :	ID. RTX_VC	Time Analyzed :	14:39

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-52GW38-0309	903124-011-076-1/2	G262754.D	14:52
OU1-52GW38-0309DL	903124-011-077-2/2	G262755.D	15:07

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108914

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108914
Sample Volume :	10	Lab File ID :	G262729.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108915

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108915
Sample Volume :	10	Lab File ID :	G262753.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-076-1/2
Sample Volume :	10	Lab File ID :	G262754.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	47	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-077-2/2
Sample Volume :	1	Lab File ID :	G262755.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	48	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-068-1/2
Sample Volume :	10	Lab File ID :	G262743.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	120	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-069-2/2
Sample Volume :	1	Lab File ID :	G262745.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	120	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-060-1/2
Sample Volume :	10	Lab File ID :	G262734.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	45	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-061-2/2
Sample Volume :	2	Lab File ID :	G262736.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	5
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	31	U
74-85-1	Ethene	29	U
74-82-8	Methane	44	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-056-1/2
Sample Volume :	10	Lab File ID :	G262730.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	44	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-057-2/2
Sample Volume :	2	Lab File ID :	G262732.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	5
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	31	U
74-85-1	Ethene	29	U
74-82-8	Methane	44	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-064-1/2
Sample Volume :	10	Lab File ID :	G262737.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	61	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-065-2/2
Sample Volume :	2	Lab File ID :	G262741.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	5
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	31	U
74-85-1	Ethene	29	U
74-82-8	Methane	43	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-072-1/2
Sample Volume :	10	Lab File ID :	G262747.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	89	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-073-2/2
Sample Volume :	1	Lab File ID :	G262749.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	110	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-066-1/2
Sample Volume :	10	Lab File ID :	G262738.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	170	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-067-2/2
Sample Volume :	1	Lab File ID :	G262742.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	160	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-074-1/2
Sample Volume :	10	Lab File ID :	G262748.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	210	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-075-2/2
Sample Volume :	1	Lab File ID :	G262750.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	110	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-070-1/2
Sample Volume :	10	Lab File ID :	G262744.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	81	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-071-2/2
Sample Volume :	1	Lab File ID :	G262746.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	80	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-058-1/2
Sample Volume :	10	Lab File ID :	G262731.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	300	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-059-2/2
Sample Volume :	.5	Lab File ID :	G262733.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	290	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-062-1/2
Sample Volume :	10	Lab File ID :	G262735.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	25	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-111-2/6MS
Sample Volume :	1	Lab File ID :	G262692.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	290	
74-85-1	Ethene	280	
74-82-8	Methane	250	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-111-2/6MSD
Sample Volume :	1	Lab File ID :	G262693.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	290	
74-85-1	Ethene	280	
74-82-8	Methane	240	

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009

Calibration Files
1 =G262685.D 2 =G262686.D 10 =G262689.D
5 =G262688.D 4 =G262687.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	2.216	1.903	1.541	1.696	1.981	1.867 E2	13.96
2)	T	Ethane	3.958	3.168	2.474	2.769	2.815	3.037 E1	18.80
3)	T	Ethylene	4.914	3.707	2.995	3.715	3.755	3.817 E1	18.08

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033109\G262728.D
Acq On : 31 Mar 2009 7:10
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 1
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	222.229	-19.0	131	0.02
2	T	Ethane	30.370	25.000	17.7	90	0.03
3	T	Ethylene	38.172	45.326	-18.7	122	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033109\G262740.D
Acq On : 31 Mar 2009 10:51
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 13
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	215.422	-15.4	127	0.03
2	T	Ethane	30.370	24.519	19.3	89	0.04
3	T	Ethylene	38.172	44.124	-15.6	119	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033109\G262752.D
Acq On : 31 Mar 2009 14:23
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 25
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	222.229	-19.0	131	0.03
2	T	Ethane	30.370	24.840	18.2	90	0.03
3	T	Ethylene	38.172	44.983	-17.8	121	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033109\G262756.D Vial: 29
Acq On : 31 Mar 2009 15:22 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	220.542	-18.1	130	0.02
2	T	Ethane	30.370	24.840	18.2	90	0.05
3	T	Ethylene	38.172	44.330	-16.1	119	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GENERAL CHEMISTRY ANALYSES

GPL Laboratories

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-055-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-051-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-047-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-045-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-049-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-053-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-050-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-054-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-052-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-046-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-048-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-001-078-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.0	
7440-44-0	Total Organic Carbon, Replicate 2	2.0	
7440-44-0	Total Organic Carbon, Replicate 3	2.0	
7440-44-0	Total Organic Carbon, Replicate 4	2.0	
7440-44-0	Total Organic Carbon, Average	2.0	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-001-078-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.9	
7440-44-0	Total Organic Carbon, Replicate 2	6.9	
7440-44-0	Total Organic Carbon, Average	6.9	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-002-079-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.6	
7440-44-0	Total Organic Carbon, Replicate 2	1.5	
7440-44-0	Total Organic Carbon, Replicate 3	1.4	
7440-44-0	Total Organic Carbon, Replicate 4	1.5	
7440-44-0	Total Organic Carbon, Average	1.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-003-080-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.4	
7440-44-0	Total Organic Carbon, Replicate 2	1.3	
7440-44-0	Total Organic Carbon, Replicate 3	1.3	
7440-44-0	Total Organic Carbon, Replicate 4	1.2	
7440-44-0	Total Organic Carbon, Average	1.3	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-004-081-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.8	
7440-44-0	Total Organic Carbon, Replicate 2	1.8	
7440-44-0	Total Organic Carbon, Replicate 3	1.8	
7440-44-0	Total Organic Carbon, Replicate 4	1.8	
7440-44-0	Total Organic Carbon, Average	1.8	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-005-082-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.1	
7440-44-0	Total Organic Carbon, Replicate 2	3.1	
7440-44-0	Total Organic Carbon, Replicate 3	3.1	
7440-44-0	Total Organic Carbon, Replicate 4	3.1	
7440-44-0	Total Organic Carbon, Average	3.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-006-083-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.4	
7440-44-0	Total Organic Carbon, Replicate 2	5.9	
7440-44-0	Total Organic Carbon, Replicate 3	6.1	
7440-44-0	Total Organic Carbon, Replicate 4	6.0	
7440-44-0	Total Organic Carbon, Average	5.8	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-007-084-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	4.6	
7440-44-0	Total Organic Carbon, Replicate 2	4.3	
7440-44-0	Total Organic Carbon, Replicate 3	4.3	
7440-44-0	Total Organic Carbon, Replicate 4	4.3	
7440-44-0	Total Organic Carbon, Average	4.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-011-088-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.4	
7440-44-0	Total Organic Carbon, Replicate 2	2.4	
7440-44-0	Total Organic Carbon, Replicate 3	2.4	
7440-44-0	Total Organic Carbon, Replicate 4	2.3	
7440-44-0	Total Organic Carbon, Average	2.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-010-087-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.8	
7440-44-0	Total Organic Carbon, Replicate 2	1.8	
7440-44-0	Total Organic Carbon, Replicate 3	1.8	
7440-44-0	Total Organic Carbon, Replicate 4	1.8	
7440-44-0	Total Organic Carbon, Average	1.8	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-009-086-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.3	
7440-44-0	Total Organic Carbon, Replicate 2	1.3	
7440-44-0	Total Organic Carbon, Replicate 3	1.3	
7440-44-0	Total Organic Carbon, Replicate 4	1.4	
7440-44-0	Total Organic Carbon, Average	1.3	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-008-085-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.4	
7440-44-0	Total Organic Carbon, Replicate 2	3.2	
7440-44-0	Total Organic Carbon, Replicate 3	3.2	
7440-44-0	Total Organic Carbon, Replicate 4	3.2	
7440-44-0	Total Organic Carbon, Average	3.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-011-088-1/1MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	7.4	
7440-44-0	Total Organic Carbon, Replicate 2	7.3	
7440-44-0	Total Organic Carbon, Average	7.3	

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLP Client: CH2M Hill

GPL Work-Order: 903124

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-52GW47-0309	BQL	BQL	N/C	15%

%RPD - 0 out of 1 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-52GW47-0309	2.00	6.89	5.00	97.8	85 - 115%
TOC	SW9060	OU1-52GW38-0309	2.36	7.35	5.00	99.8	85 - 115%

% Recovery - 0 out of 2 outside control limits

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903124 STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.20	105	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.20	105	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	4.00	4.20	105	70 - 130%

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903124 STD Solution ID: #43278

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	31.9	30.9	97	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	30.7	96	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	30.9	97	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	30.5	96	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	30.4	95	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	31.0	97	90 - 110%

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-055-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-051-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-047-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-045-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-049-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-053-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-050-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-054-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-052-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-046-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-048-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-001-078-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.0	
7440-44-0	Total Organic Carbon, Replicate 2	2.0	
7440-44-0	Total Organic Carbon, Replicate 3	2.0	
7440-44-0	Total Organic Carbon, Replicate 4	2.0	
7440-44-0	Total Organic Carbon, Average	2.0	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-001-078-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	6.9	
7440-44-0	Total Organic Carbon, Replicate 2	6.9	
7440-44-0	Total Organic Carbon, Average	6.9	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-002-079-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.6	
7440-44-0	Total Organic Carbon, Replicate 2	1.5	
7440-44-0	Total Organic Carbon, Replicate 3	1.4	
7440-44-0	Total Organic Carbon, Replicate 4	1.5	
7440-44-0	Total Organic Carbon, Average	1.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-003-080-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.4	
7440-44-0	Total Organic Carbon, Replicate 2	1.3	
7440-44-0	Total Organic Carbon, Replicate 3	1.3	
7440-44-0	Total Organic Carbon, Replicate 4	1.2	
7440-44-0	Total Organic Carbon, Average	1.3	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-004-081-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.8	
7440-44-0	Total Organic Carbon, Replicate 2	1.8	
7440-44-0	Total Organic Carbon, Replicate 3	1.8	
7440-44-0	Total Organic Carbon, Replicate 4	1.8	
7440-44-0	Total Organic Carbon, Average	1.8	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-005-082-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.1	
7440-44-0	Total Organic Carbon, Replicate 2	3.1	
7440-44-0	Total Organic Carbon, Replicate 3	3.1	
7440-44-0	Total Organic Carbon, Replicate 4	3.1	
7440-44-0	Total Organic Carbon, Average	3.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-006-083-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.4	
7440-44-0	Total Organic Carbon, Replicate 2	5.9	
7440-44-0	Total Organic Carbon, Replicate 3	6.1	
7440-44-0	Total Organic Carbon, Replicate 4	6.0	
7440-44-0	Total Organic Carbon, Average	5.8	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-007-084-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	4.6	
7440-44-0	Total Organic Carbon, Replicate 2	4.3	
7440-44-0	Total Organic Carbon, Replicate 3	4.3	
7440-44-0	Total Organic Carbon, Replicate 4	4.3	
7440-44-0	Total Organic Carbon, Average	4.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-011-088-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.4	
7440-44-0	Total Organic Carbon, Replicate 2	2.4	
7440-44-0	Total Organic Carbon, Replicate 3	2.4	
7440-44-0	Total Organic Carbon, Replicate 4	2.3	
7440-44-0	Total Organic Carbon, Average	2.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-010-087-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.8	
7440-44-0	Total Organic Carbon, Replicate 2	1.8	
7440-44-0	Total Organic Carbon, Replicate 3	1.8	
7440-44-0	Total Organic Carbon, Replicate 4	1.8	
7440-44-0	Total Organic Carbon, Average	1.8	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-009-086-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.3	
7440-44-0	Total Organic Carbon, Replicate 2	1.3	
7440-44-0	Total Organic Carbon, Replicate 3	1.3	
7440-44-0	Total Organic Carbon, Replicate 4	1.4	
7440-44-0	Total Organic Carbon, Average	1.3	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-008-085-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.4	
7440-44-0	Total Organic Carbon, Replicate 2	3.2	
7440-44-0	Total Organic Carbon, Replicate 3	3.2	
7440-44-0	Total Organic Carbon, Replicate 4	3.2	
7440-44-0	Total Organic Carbon, Average	3.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903124
Case No.:		SDG NO.:	903124
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903124-011-088-1/1MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/28/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	7.4	
7440-44-0	Total Organic Carbon, Replicate 2	7.3	
7440-44-0	Total Organic Carbon, Average	7.3	

Qualifier Definitions

CH2M Hill Inc

Work Order: 903124

All Departments

U	Indicates that the compound was analyzed for but not detected
BQL	Below Quantitation Limit

Organics

B	Indicates that the analyte was found in the associated blank as well as in the sample
D	Indicates that the analyte was reported from a diluted analysis
E	Indicates that the concentration detected exceeded the calibration range of the instrument
J	Value is less than the reporting limit but greater than the MDL
P	Indicates that there is greater than 25% difference for detected pesticide/Arochlor results between the two GC columns

Metals

J	Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL
E	Indicates that the reported value is estimated because of the possible presence of interference (i.e. the serial dilution not within control limits)
H	Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit
D	Indicates that the analyte was reported from a diluted analysis
N	Spiked sample recovery not within control limits
*	Duplicate analysis not within control limits

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Nitrate & Nitrite = 48h
Sulfate = 28d

Contract/Billing Reference:

1 of 2 Pgs.

Project: GW Sampling Cax Cherry Point
Client: CH2M Hill
Send Results To: Bill Hanna
Address: 5700 Cleveland St, Suite 101
Virginia Beach, VA 23462
Phone: (757) 671-8277

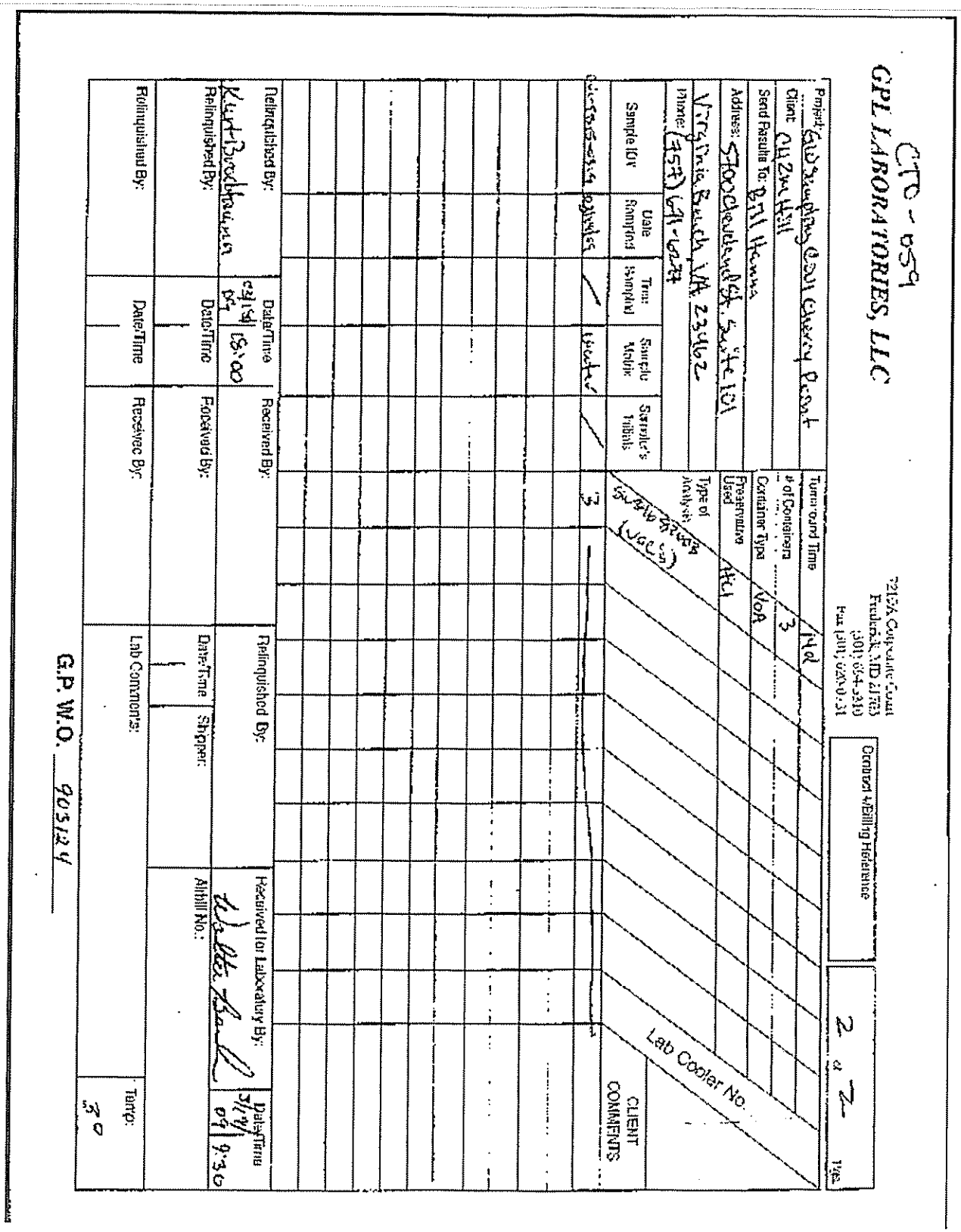
	Turnaround Time	14d	Reg. count	7d	14d	28d
	# of Containers	3	1	1	2	1
	Container Type	VOA	8oz. plastic	8oz. plastic	VOA	8oz. plastic
	Preservative Used	HCl	None	NaOH	HCl	H2SO4
	Type of Analysis	SW846 8260B (VOCs)	EPA 300.0 (Nitrate/Nitrite, Chloride)	EPA 376.1 (Sulfide)	RSK-175 (methane, ethane, ethene)	SW846 9060 (TOC)

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	SW846 8260B (VOCs)	EPA 300.0	EPA 376.1	RSK-175	SW846 9060 (TOC)					Client Comments
[illegible]-09A	03/18/09	10:40	water	DM	3	1	1	2	1					Low VOC exp.
[illegible]-09A	03/18/09	16:35	water	KB	3	1	1	2	1					Low VOC exp.
[illegible]-09A	03/18/09	13:45	water	DM	3	1	1	2	1					High turbidity clearance LD Met to 7 days VOC
[illegible]-09A	03/18/09	15:35	water	KB	3	1	1	2	1					Low VOC exp.
[illegible]-09A	03/18/09	11:25	water	DM	3	1	1	2	1					Low VOC exp.
[illegible]	03/18/09	11:45	water	KB	3	1	1	2	1					
[illegible]	03/18/09	15:50	water	KB	3	1	1	2	1					
[illegible]	03/18/09	10:54	water	KB	3	1	1	2	1					
[illegible]	03/18/09	12:56	water	KB	3	1	1	2	1					
[illegible]-09A	03/18/09	10:11	water	KB	3	1	1	2	1					
[illegible]-09A	03/18/09	14:35	water	KB	3	1	1	2	1					
[illegible]	03/18/09	—	water	—	3									

Lab Cooler No.

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Kurt Brockmann	03/18/09 1800			Walter Bu[illegible]	3/19/09 9:30
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
Relinquished By:	Date/Time	Received By:	Lab Comments:		Temp: 3°

G.P. W.O. 903124


CTO - 059
GPL LABORATORIES, LLC
7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731
Contract/Billing Reference
Page
Project:
Client
Send Results To:
Address:
Phone:
Turnaround Time
# of Containers
Container Type
Preservative Used
Type of Analysis
Sample ID#
Date Sampled
Time Sampled
Sample Matrix
Sampler's Initials
Lab Cooler No.
CLIENT COMMENTS
Relinquished By:
Date/Time
Received By:
Relinquished By:
Date/Time
Received By:
Relinquished By:
Date/Time
Shipper:
Received for Laboratory By:
Airbill No.:
Lab Comments:
Temp:
G.P. W.O. 903124

MEMORANDUM CH2M HILL

Corrections to COCs

TO: Garth Herdrich

COPIES: File
EDD
Laboratory Package Multiple SDGs

FROM: Kyle Block
RIS
CH2M HILL

DATE: March 24, 2009

This memo is to document corrections made to entries on the Chains of Custody (COC) and Lab Logins for Cherry Point CTO-059.

The SDG 903062 had the sample below incorrectly labeled on the Lab Login. Please make the appropriate change changes to all deliverables.

Change Sample ID to read as:	Incorrectly labeled as:	Date Sample	Time Sample
OU1-MW50 0309	OU1-MW5D-0309	3/10/2009	12:05

Additionally the below samples did not have sample times correlating to the sample on the COC's. Please add the times and make the appropriate changes to the COC and make appropriate changes to all deliverables

Sample ID	Date Sample	Time Sample	GPL ID
OU1-TB01-0309	3/10/2009	0:50	903062
OU1-TB02 0309	3/11/2009	18:00	903069
OU1 TB03-0309	3/11/2009	18:02	903069
OU1-TB01-0309	3/11/2009	18:04	903069
OU1-TB05 0309	3/12/2009	17:15	903071
OU1-TB06-0309	3/13/2009	17:10	903093
OU1-TB07-0309	3/13/2009	17:12	903093
OU1 TB08 0309	3/16/2009	17:55	903098
OU1 TB09-0309	3/16/2009	17:57	903098
OU1-TB10-0309	3/16/2009	17:59	903098
OU1-TB11-0309	3/17/2009	17:55	903125
OU1-TB12-0309	3/17/2009	17:57	903125
OU1 TB13-0309	3/17/2009	17:59	903125
OU1-TB14-0309	3/18/2009	17:55	903124
OU1-TB15 0309	3/18/2009	17:57	903124
OU1 MW53P-0309	3/15/2009	15:20	903098
OU1-52GW4RP-0309	3/16/2009	11:02	903099

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GPL Laboratories, LLLP

Figure 3

Sample Preservation Check Documentation Form

Work Order: 903124

Parameter / Preservative / pH Value	Metals (A) -HNO3 <2	Phenol -2SO4 <2	TPH D&G -2SO4 <2	Class ca. Parameters -H2SO4 <2	Cyanide Sulfide NaOH >12	Cyanide Sulfide NaOH >9	Radiology (B) HNO3 <2	Other Preservative Adjustment	Other Reagent Lot #	see checklist for comments
GPL ID										
OU1-52 GW 47-0309								Y / N		
OU1-52 GW 71-0309								Y / N		
OU1-52 GW 42-0309								Y / N		
OU1-52 GW 72-0309								Y / N		
OU1-52 GW 48-0309								Y / N		
OU1-52 GW 56-0309								Y / N		
OU1-52 GW 39-0309								Y / N		
OU1-52 GW 58-0309								Y / N		
OU1-52 GW 55-0309								Y / N		
OU1-52 GW 52-0309								Y / N		
OU1-52 GW 38-0309								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		

(A) If drinking water metals sample is acidified in the laboratory, the TIME that the samples are acidified MUST be recorded in order to meet the 15 hour hold time requirement.

(B) If Radiochemistry sample is acidified in the laboratory, the TIME that the samples are acidified MUST be recorded in order to meet the 15 hour hold time requirement. Tritium analysis should NOT be preserved.

Sample Preservation Check Performed By: Walter Boone Date: 3/19/09

FedEx US Airbill 8656 2052 8221

0200

1 From
Date 3/18/09
Sender's Name Anika Musialowski Phone 504-7223-1648
Company CH2M Hill
Hampton (Havelock)
Address 105 Tourist Center Drive
City Havelock State NC ZIP 28532

2 Your Internal Billing Reference

3 To
Recipient's Name Attn Sample Receiving Phone 301 694 5310
Company GPL Laboratories
Recipient's Address 7210 A Corporate Court
City Frederick State MD ZIP 21703

4a Express Package Service
X FedEx Priority Overnight

4b Express Freight Service

5 Packaging

6 Special Handling

7 Payment Bill to: X Third Party
186718208

Total Packages 5
Total Declared Value $50.00

8 Residential Delivery Signature Options

520

Find drop-off locations at fedex.com
Simplify your shipping. Manage your account. Access all the tools you need.

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903124 | Carrier Name: Fed-Ex

Client Name: CH2M Hill | Prepared (Logged In) By: WS 3/19/09

Date Received: 3/19/09 | Project:

Time Received: 9:30 | Site:

Received By: Walter | VOA Holding Blank ID No:

	YES	NO		YES	NO
Airbill/Manifest Present?	✓		Trip Blanks Received?	✓	
No: 8105620528 22 1			No. of Sets 2		
Shipping Container in Good Condition?	✓		VOA Vials Have Zero Headspace?	✓	
Custody Seals Present on Shipping Container?	✓		Preservatives Added to Sample?	✓	
Condition: Good ✓ Broken			pH Check Required?	✓	
Chain of Custody Present?	✓		Performed By: WS		
Chain of Custody Agrees with Sample Labels?	✓		Ice Present in Shipping Container?	✓	
Chain of Custody Signed?	✓				
Packing Present in Shipping Container?	✓		Container # / Temperature		
Type of Packing Bubble wrap			5 / 30		
Custody Seals on Sample Bottles?	✓				
Condition: Good ✓ Broken					
Total Number of Sample Bottles 94	✓				
Total Number of Samples 13	✓				
Samples Intact?	✓				
Sufficient Sample Volume for Indicated Test?	✓		WS		

Project Manager Contacted?

Name: Garth

Date Contacted: 3/19/09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS:

Checklist Completed By: Walter Lah

Date: 3/19/09

VOLATILE ORGANICS

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903124

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108871	99	99	104	121
BLK108871	91	106	101	113
OU1-52GW42-0309	90	104	100	114
OU1-52GW47-0309	93	102	103	112
OU1-52GW71-0309	91	106	103	117

*Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903124

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108876	93	106	107	120
BLK108876	95	103	104	117
OU1-52GW38-0309	91	101	98	115
OU1-52GW39-0309	94	103	102	118
OU1-52GW48-0309	94	102	99	118
OU1-52GW55-0309	91	101	98	111
OU1-52GW56-0309	90	104	100	115
OU1-52GW57-0309	93	100	100	117
OU1-52GW58-0309	93	103	102	116
OU1-52GW72-0309	93	102	100	116
OU1-TB14-0309	91	101	96	118
OU1-TB15-0309	90	100	103	119

*Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903124

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108880	99	100	105	115
BLK108880	97	98	100	110
OU1-52GW58-0309DL	96	99	103	106

*Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,1,1-Trichloroethane	50	50	0.0	68	69	136	138	1	25	50-149
1,1,2,2-Tetrachloroethane	50	50	0.0	52	54	104	108	4	25	70-120
1,1,2-Trichloroethane	50	50	0.0	62	62	124	124	0	25	61-146
1,1-Dichloroethane	50	50	0.0	62	64	124	128	3	25	63-135
1,1-Dichloroethene	50	50	0.0	60	68	120	138 *	14	25	59-130
1,2,4-Trichlorobenzene	50	50	0.0	67	72	134 *	144 *	7	25	56-132
1,2-Dibromo-3-Chloropropane	50	50	0.0	47	54	94	108	14	25	20-154
1,2-Dichlorobenzene	50	50	0.0	66	68	132	136 *	3	25	79-133
1,2-Dichloroethane	50	50	0.0	56	55	112	110	2	25	47-158
1,2-Dichloropropane	50	50	0.0	56	60	112	120	7	25	72-133
1,3-Dichlorobenzene	50	50	0.0	69	70	138 *	140 *	1	25	78-130
1,4-Dichlorobenzene	50	50	0.0	68	69	136 *	138 *	1	25	75-134
2-Butanone	100	100	0.0	93	98	93	98	5	25	70-125
2-Hexanone	100	100	0.0	94	96	94	96	2	25	49-150
4-Methyl-2-Pentanone	100	100	0.0	95	99	95	99	4	25	70-120
Acetone	100	100	0.0	88	93	88	93	6	25	56-152
Benzene	50	50	0.0	53	54	106	108	2	25	74-130
Bromodichloromethane	50	50	0.0	58	61	116	122	5	25	57-149

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Bromoform	50	50	0.0	63	64	126	128 *	2	25	62-127
Bromomethane	50	50	0.0	150	100	300 *	200 *	40 *	25	41-140
Carbon Disulfide	50	50	0.0	51	54	102	108	6	25	57-152
Carbon Tetrachloride	50	50	0.0	78	80	156 *	160 *	3	25	48-149
Chlorobenzene	50	50	180	220	250	80	140 *	55 *	25	75-130
Chloroethane	50	50	0.0	120	95	240 *	190 *	23	25	61-140
Chloroform	50	50	0.0	60	62	120	126	5	25	62-131
Chloromethane	50	50	0.0	46	52	92	104	12	25	39-148
Cyclohexane	50	50	0.0	61	63	122 *	126 *	3	25	50-120
Dibromochloromethane	50	50	0.0	59	59	118	118	0	25	55-139
Dichlorodifluoromethane	50	50	18	70	79	104	122 *	16	25	42-114
Ethylbenzene	50	50	0.0	54	53	108	106	2	25	76-139
Ethylene DiBromide	50	50	0.0	52	53	104	106	2	25	57-129
Freon 113	50	50	0.0	84	92	168 *	184 *	9	25	70-120
Isopropylbenzene	50	50	0.0	59	60	118	120	2	25	68-132
Methyl Acetate	50	50	0.0	54	56	108	112	4	25	50-120
Methylcyclohexane	50	50	0.0	78	82	156 *	164 *	5	25	50-120
Methylene Chloride	50	50	4.0	51	59	94	110	16	25	60-126

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name : GPL Laboratories SDG NO : 903192 Method : SW8260LL FQC

Lab Code : GPL Lab Sample ID : 903192-001-001-1/9MSD Matrix : WATER Analysis Date : 03/26/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Styrene	50	50	0.0	55	54	108	108	0	25	45-152
Tetrachloroethylene	50	50	0.0	69	68	138	136	1	25	43-147
Toluene	50	50	0.0	64	64	128	130	2	25	70-133
Total Xylenes	150	150	0.0	170	170	113	113	0	25	70-120
Trichloroethene	50	50	0.0	54	57	106	114	7	25	62-137
Trichlorofluoromethane	50	50	0.0	68	110	136	220 *	47 *	25	27-149
Vinyl Chloride	50	50	0.0	50	49	100	98	2	25	64-158
cis-1,2-Dichloroethene	50	50	1.9	58	60	112	116	4	25	48-144
cis-1,3-Dichloropropene	50	50	0.0	58	58	114	116	2	25	62-126
tert-butyl methyl ether	50	50	0.0	63	67	126	134 *	6	25	50-128
trans-1,2-dichloroethene	50	50	3.7	62	69	117	131 *	11	25	64-125
trans-1,3-dichloropropene	50	50	0.0	61	61	120	122 *	2	25	65-121

8 of 605

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 3 Out of 48 Outside Limit
Spike Recovery : 27 Out of 96 outside limit

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108871

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108871
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	53	106	80-130
1,1,1-Trichloroethane	50	0	55	110	65-130
1,1,2,2-Tetrachloroethane	50	0	42	84	65-130
1,1,2-Trichloroethane	50	0	45	90	75-125
1,1-Dichloroethane	50	0	52	104	70-135
1,1-Dichloroethene	50	0	50	100	70-130
1,1-Dichloropropene	50	0	41	82	75-130
1,2,3-Trichlorobenzene	50	0	56	112	55-140
1,2,3-Trichloropropane	50	0	45	90	75-125
1,2,4-Trichlorobenzene	50	0	56	112	65-135
1,2,4-Trimethylbenzene	50	0	49	98	75-130
1,2-Dibromo-3-Chloropropane	50	0	36	72	50-130
1,2-Dichlorobenzene	50	0	55	110	70-120
1,2-Dichloroethane	50	0	41	82	70-130
1,2-Dichloropropane	50	0	45	90	75-125
1,3,5-trimethylbenzene	50	0	48	96	75-130
1,3-Dichlorobenzene	50	0	57	114	75-125
1,3-Dichloropropane	50	0	43	86	75-125
1,4-Dichlorobenzene	50	0	56	112	75-125
2,2-Dichloropropane	50	0	48	96	70-135
2-Butanone	100	0	65	65	30-150
2-Chlorotoluene	50	0	53	106	75-125
2-Hexanone	100	0	70	70	55-130
4-Chlorotoluene	50	0	53	106	75-130
4-Isopropyltoluene	50	0	56	112	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108871

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108871
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	76	76	60-135
Acetone	100	0	73	73	40-140
Benzene	50	0	39	78 *	80-120
Bromobenzene	50	0	55	110	75-125
Bromochloromethane	50	0	63	126	65-130
Bromodichloromethane	50	0	45	90	75-120
Bromoform	50	0	51	102	70-130
Bromomethane	50	0	130	260 *	30-145
Carbon Disulfide	50	0	44	88	35-160
Carbon Tetrachloride	50	0	58	116	65-140
Chlorobenzene	50	0	48	96	80-120
Chloroethane	50	0	47	94	60-135
Chloroform	50	0	50	100	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	46	92	50-120
Dibromochloromethane	50	0	48	96	60-135
Dibromomethane	50	0	47	94	75-125
Dichlorodifluoromethane	50	0	46	92	30-155
Ethylbenzene	50	0	44	88	75-125
Ethylene DiBromide	50	0	42	84	80-120
Freon 113	50	0	62	124	70-130
Hexachlorobutadiene	50	0	57	114	50-140
Isopropylbenzene	50	0	48	96	75-125
Methyl Acetate	50	0	34	68	50-120
Methylcyclohexane	50	0	58	116	50-120

* Values Outside of QC Limits.

Spike recovery : 2 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108871

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108871
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	44	88	55-140
Naphthalene	50	0	50	100	55-140
Sec-Butylbenzene	50	0	49	98	70-125
Styrene	50	0	46	92	65-135
Tetrachloroethylene	50	0	56	112	45-150
Toluene	50	0	48	96	75-120
Trichloroethene	50	0	44	88	70-125
Trichlorofluoromethane	50	0	50	100	60-145
Vinyl Acetate	50	0	27	54	41-139
Vinyl Chloride	50	0	42	84	50-145
cis-1,2-Dichloroethene	50	0	46	92	70-125
cis-1,3-Dichloropropene	50	0	45	90	70-130
m,p-Xylene	100	0	97	97	75-130
n-Butylbenzene	50	0	46	92	70-135
n-Propylbenzene	50	0	46	92	70-130
o-Xylene	50	0	47	94	80-120
tert-Butylbenzene	50	0	52	104	70-130
tert-butyl methyl ether	50	0	52	104	65-125
trans-1,2-dichloroethene	50	0	50	100	60-140
trans-1,3-dichloropropene	50	0	44	88	55-140

* Values Outside of QC Limits.

Spike recovery : 0 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108876

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108876
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	57	114	80-130
1,1,1-Trichloroethane	50	0	58	116	65-130
1,1,2,2-Tetrachloroethane	50	0	46	92	65-130
1,1,2-Trichloroethane	50	0	53	106	75-125
1,1-Dichloroethane	50	0	55	110	70-135
1,1-Dichloroethene	50	0	56	112	70-130
1,1-Dichloropropene	50	0	48	96	75-130
1,2,3-Trichlorobenzene	50	0	64	128	55-140
1,2,3-Trichloropropane	50	0	52	104	75-125
1,2,4-Trichlorobenzene	50	0	61	122	65-135
1,2,4-Trimethylbenzene	50	0	49	98	75-130
1,2-Dibromo-3-Chloropropane	50	0	48	96	50-130
1,2-Dichlorobenzene	50	0	57	114	70-120
1,2-Dichloroethane	50	0	48	96	70-130
1,2-Dichloropropane	50	0	51	102	75-125
1,3,5-trimethylbenzene	50	0	49	98	75-130
1,3-Dichlorobenzene	50	0	59	118	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	58	116	75-125
2,2-Dichloropropane	50	0	48	96	70-135
2-Butanone	100	0	87	87	30-150
2-Chlorotoluene	50	0	52	104	75-125
2-Hexanone	100	0	85	85	55-130
4-Chlorotoluene	50	0	53	106	75-130
4-Isopropyltoluene	50	0	57	114	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108876

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108876
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	90	90	60-135
Acetone	100	0	88	88	40-140
Benzene	50	0	45	90	80-120
Bromobenzene	50	0	57	114	75-125
Bromochloromethane	50	0	70	140 *	65-130
Bromodichloromethane	50	0	54	108	75-120
Bromoform	50	0	54	108	70-130
Bromomethane	50	0	91	182 *	30-145
Carbon Disulfide	50	0	45	90	35-160
Carbon Tetrachloride	50	0	64	128	65-140
Chlorobenzene	50	0	50	100	80-120
Chloroethane	50	0	72	144 *	60-135
Chloroform	50	0	53	106	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	47	94	50-120
Dibromochloromethane	50	0	51	102	60-135
Dibromomethane	50	0	55	110	75-125
Dichlorodifluoromethane	50	0	44	88	30-155
Ethylbenzene	50	0	45	90	75-125
Ethylene DiBromide	50	0	48	96	80-120
Freon 113	50	0	68	136 *	70-130
Hexachlorobutadiene	50	0	62	124	50-140
Isopropylbenzene	50	0	49	98	75-125
Methyl Acetate	50	0	46	92	50-120
Methylcyclohexane	50	0	59	118	50-120

* Values Outside of QC Limits.

Spike recovery : 4 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108876

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108876
Analysis Date : 03/26/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	49	98	55-140
Naphthalene	50	0	61	122	55-140
Sec-Butylbenzene	50	0	51	102	70-125
Styrene	50	0	48	96	65-135
Tetrachloroethylene	50	0	58	116	45-150
Toluene	50	0	55	110	75-120
Trichloroethene	50	0	50	100	70-125
Trichlorofluoromethane	50	0	80	160 *	60-145
Vinyl Acetate	50	0	35	70	41-139
Vinyl Chloride	50	0	40	80	50-145
cis-1,2-Dichloroethene	50	0	49	98	70-125
cis-1,3-Dichloropropene	50	0	51	102	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	47	94	70-135
n-Propylbenzene	50	0	46	92	70-130
o-Xylene	50	0	48	96	80-120
tert-Butylbenzene	50	0	53	106	70-130
tert-butyl methyl ether	50	0	60	120	65-125
trans-1,2-dichloroethene	50	0	55	110	60-140
trans-1,3-dichloropropene	50	0	51	102	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108880

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108880
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	50	100	80-130
1,1,1-Trichloroethane	50	0	57	114	65-130
1,1,2,2-Tetrachloroethane	50	0	48	96	65-130
1,1,2-Trichloroethane	50	0	51	102	75-125
1,1-Dichloroethane	50	0	55	110	70-135
1,1-Dichloroethene	50	0	55	110	70-130
1,1-Dichloropropene	50	0	50	100	75-130
1,2,3-Trichlorobenzene	50	0	59	118	55-140
1,2,3-Trichloropropane	50	0	53	106	75-125
1,2,4-Trichlorobenzene	50	0	58	116	65-135
1,2,4-Trimethylbenzene	50	0	53	106	75-130
1,2-Dibromo-3-Chloropropane	50	0	50	100	50-130
1,2-Dichlorobenzene	50	0	54	108	70-120
1,2-Dichloroethane	50	0	51	102	70-130
1,2-Dichloropropane	50	0	45	90	75-125
1,3,5-trimethylbenzene	50	0	52	104	75-130
1,3-Dichlorobenzene	50	0	56	112	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	55	110	75-125
2,2-Dichloropropane	50	0	54	108	70-135
2-Butanone	100	0	90	90	30-150
2-Chlorotoluene	50	0	52	104	75-125
2-Hexanone	100	0	92	92	55-130
4-Chlorotoluene	50	0	51	102	75-130
4-Isopropyltoluene	50	0	59	118	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108880

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108880
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	90	90	60-135
Acetone	100	0	92	92	40-140
Benzene	50	0	46	92	80-120
Bromobenzene	50	0	55	110	75-125
Bromochloromethane	50	0	62	124	65-130
Bromodichloromethane	50	0	48	96	75-120
Bromoform	50	0	49	98	70-130
Bromomethane	50	0	110	220 *	30-145
Carbon Disulfide	50	0	44	88	35-160
Carbon Tetrachloride	50	0	62	124	65-140
Chlorobenzene	50	0	50	100	80-120
Chloroethane	50	0	94	188 *	60-135
Chloroform	50	0	55	110	65-135
Chloromethane	50	0	46	92	40-125
Cyclohexane	50	0	50	100	50-120
Dibromochloromethane	50	0	47	94	60-135
Dibromomethane	50	0	47	94	75-125
Dichlorodifluoromethane	50	0	41	82	30-155
Ethylbenzene	50	0	48	96	75-125
Ethylene DiBromide	50	0	47	94	80-120
Freon 113	50	0	73	146 *	70-130
Hexachlorobutadiene	50	0	59	118	50-140
Isopropylbenzene	50	0	51	102	75-125
Methyl Acetate	50	0	46	92	50-120
Methylcyclohexane	50	0	54	108	50-120

* Values Outside of QC Limits.

Spike recovery : 3 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108880

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903124
Lab Sample ID : BKS108880
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	48	96	55-140
Naphthalene	50	0	56	112	55-140
Sec-Butylbenzene	50	0	54	108	70-125
Styrene	50	0	50	100	65-135
Tetrachloroethylene	50	0	53	106	45-150
Toluene	50	0	51	102	75-120
Trichloroethene	50	0	49	98	70-125
Trichlorofluoromethane	50	0	90	180 *	60-145
Vinyl Acetate	50	0	34	68	41-139
Vinyl Chloride	50	0	43	86	50-145
cis-1,2-Dichloroethene	50	0	51	102	70-125
cis-1,3-Dichloropropene	50	0	49	98	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	51	102	70-135
n-Propylbenzene	50	0	50	100	70-130
o-Xylene	50	0	48	96	80-120
tert-Butylbenzene	50	0	55	110	70-130
tert-butyl methyl ether	50	0	57	114	65-125
trans-1,2-dichloroethene	50	0	56	112	60-140
trans-1,3-dichloropropene	50	0	49	98	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Lab File ID :	A62571.D	SDG NO :	903124
Date Analyzed	03/26/2009	Lab Sample ID :	BLK108871
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:13

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108871	BKS108871	A62569.D	10:32
OU1-52GW42-0309	903124-003-007-1/3	A62595.D	19:53
OU1-52GW47-0309	903124-001-001-1/3	A62591.D	18:32
OU1-52GW71-0309	903124-002-004-1/3	A62593.D	19:12

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Lab File ID :	A62605.D	SDG NO :	903124
Date Analyzed	03/26/2009	Lab Sample ID :	BLK108876
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	23:16

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108876	BKS108876	A62603.D	22:36
OU1-52GW38-0309	903124-011-031-1/3	A62621.D	04:40
OU1-52GW39-0309	903124-007-019-1/3	A62613.D	01:58
OU1-52GW48-0309	903124-005-013-1/3	A62609.D	00:37
OU1-52GW55-0309	903124-009-025-1/3	A62617.D	03:19
OU1-52GW56-0309	903124-006-016-1/3	A62611.D	01:18
OU1-52GW57-0309	903124-010-028-1/3	A62619.D	03:59
OU1-52GW58-0309	903124-008-022-1/3	A62615.D	02:38
OU1-52GW72-0309	903124-004-010-1/3	A62607.D	23:56
OU1-TB14-0309	903124-012-089-1/3	A62623.D	05:21
OU1-TB15-0309	903124-013-092-1/3	A62625.D	06:02

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Lab File ID :	A62637.D	SDG NO :	903124
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108880
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:26

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108880	BKS108880	A62635.D	10:45
OU1-52GW58-0309DL	903124-008-023-2/3	A62639.D	12:30

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : General Physics Corp.

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903020

Lab File ID: A62205.D BFB Injection Date : 03/10/2009 BFB Injection Time : 07:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.6	(.8)1
174	50.0 - 120.0% of mass 95	79.6	
175	5.0 - 9.0% of mass 174	5.9	(7.4)1
176	95.0 - 101.0% of mass 174	77.5	(97.3)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL01	CAL01	A62207.D	03/10/2009	08:49
2	CAL05	CAL05	A62209.D	03/10/2009	09:30
3	CAL20	CAL20	A62211.D	03/10/2009	11:03
4	CAL50	CAL50	A62213.D	03/10/2009	11:44
5	CAL100	CAL100	A62215.D	03/10/2009	12:49
6	CAL200	CAL200	A62219.D	03/10/2009	14:22
7	BLK108667	BLK108667	A62221.D	03/10/2009	15:35
8	BKS108667	BKS108667	A62223.D	03/10/2009	16:25
9	TB-030409	903020-001-001-1/2	A62225.D	03/10/2009	17:06
10	EFFg-030409	903020-004-003-1/3	A62227.D	03/10/2009	17:46
11	ACU2-030409	903020-005-006-1/3	A62229.D	03/10/2009	18:27
12	ACU1-030409	903020-006-009-1/3	A62231.D	03/10/2009	19:08

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62565.D BFB Injection Date : 03/26/2009 BFB Injection Time : 08:27

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.3	
75	30.0 - 60.0% of mass 95	53.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	1.0	(1.1)1
174	50.0 - 120.0% of mass 95	88.0	
175	5.0 - 9.0% of mass 174	7.4	(8.4)1
176	95.0 - 101.0% of mass 174	83.9	(95.3)1
177	5.0 - 9.0% of mass 176	5.7	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62567.D	03/26/2009	09:20
2	BKS108871	BKS108871	A62569.D	03/26/2009	10:32
3	BLK108871	BLK108871	A62571.D	03/26/2009	11:13
4	OU1-52GW47-0309	903124-001-001-1/3	A62591.D	03/26/2009	18:32
5	OU1-52GW71-0309	903124-002-004-1/3	A62593.D	03/26/2009	19:12
6	OU1-52GW42-0309	903124-003-007-1/3	A62595.D	03/26/2009	19:53

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62600.D BFB Injection Date : 03/26/2009 BFB Injection Time : 21:35

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.7	
75	30.0 - 60.0% of mass 95	52.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	1.9	(1.9)1
174	50.0 - 120.0% of mass 95	98.7	
175	5.0 - 9.0% of mass 174	8.4	(8.5)1
176	95.0 - 101.0% of mass 174	97.1	(98.3)1
177	5.0 - 9.0% of mass 176	7.3	(7.5)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62601.D	03/26/2009	21:55
2	BKS108876	BKS108876	A62603.D	03/26/2009	22:36
3	BLK108876	BLK108876	A62605.D	03/26/2009	23:16
4	OU1-52GW72-0309	903124-004-010-1/3	A62607.D	03/26/2009	23:56
5	OU1-52GW48-0309	903124-005-013-1/3	A62609.D	03/27/2009	00:37
6	OU1-52GW56-0309	903124-006-016-1/3	A62611.D	03/27/2009	01:18
7	OU1-52GW39-0309	903124-007-019-1/3	A62613.D	03/27/2009	01:58
8	OU1-52GW58-0309	903124-008-022-1/3	A62615.D	03/27/2009	02:38
9	OU1-52GW55-0309	903124-009-025-1/3	A62617.D	03/27/2009	03:19
10	OU1-52GW57-0309	903124-010-028-1/3	A62619.D	03/27/2009	03:59
11	OU1-52GW38-0309	903124-011-031-1/3	A62621.D	03/27/2009	04:40
12	OU1-TB14-0309	903124-012-089-1/3	A62623.D	03/27/2009	05:21
13	OU1-TB15-0309	903124-013-092-1/3	A62625.D	03/27/2009	06:02

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62629.D BFB Injection Date : 03/27/2009 BFB Injection Time : 08:18

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.3	
75	30.0 - 60.0% of mass 95	51.7	
95	Base peak. 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.4	
173	Less than 2.0% of mass 174	1.7	(2.0)1
174	50.0 - 120.0% of mass 95	88.3	
175	5.0 - 9.0% of mass 174	6.7	(7.6)1
176	95.0 - 101.0% of mass 174	85.1	(96.3)1
177	5.0 - 9.0% of mass 176	5.8	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62633.D	03/27/2009	10:04
2	BKS108880	BKS108880	A62635.D	03/27/2009	10:45
3	BLK108880	BLK108880	A62637.D	03/27/2009	11:26
4	OU1-52GW58-0309DL	903124-008-023-2/3	A62639.D	03/27/2009	12:30

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62567.D Date Analyzed: 03/26/2009 Time Analyzed: 09:20

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	362227	04.68	433260	07.79	391514	04.56
UPPER LIMIT	724454	05.18	866520	08.29	783028	05.06
LOWER LIMIT	181114	04.18	216630	07.29	195757	04.06
Client Sample						
BKS108871	439401	04.68	456605	07.78	430569	04.56
BLK108871	334290	04.68	376962	07.78	365167	04.55
OU1-52GW42-0309	334668	04.68	367265	07.78	355961	04.55
OU1-52GW47-0309	346795	04.68	371153	07.78	366281	04.55
OU1-52GW71-0309	344158	04.68	379926	07.78	371882	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62601.D Date Analyzed: 03/26/2009 Time Analyzed: 21:55

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	353860	04.68	411894	07.78	377141	04.55
UPPER LIMIT	707720	05.18	823788	08.28	754282	05.05
LOWER LIMIT	176930	04.18	205947	07.28	188571	04.05
Client Sample						
BKS108876	373286	04.68	431215	07.78	409560	04.55
BLK108876	376407	04.68	404746	07.78	408844	04.55
OU1-52GW38-0309	320912	04.68	344502	07.78	336600	04.55
OU1-52GW39-0309	308870	04.68	340152	07.78	332582	04.55
OU1-52GW48-0309	341881	04.68	369185	07.78	366448	04.55
OU1-52GW55-0309	322902	04.68	363174	07.78	351874	04.55
OU1-52GW56-0309	330429	04.68	366816	07.78	360562	04.55
OU1-52GW57-0309	334210	04.68	364832	07.78	357697	04.55
OU1-52GW58-0309	333692	04.68	368860	07.78	352406	04.56
OU1-52GW72-0309	328569	04.68	354340	07.78	343854	04.55
OU1-TB14-0309	317276	04.68	346175	07.78	338772	04.55
OU1-TB15-0309	301265	04.68	328489	07.78	319454	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903124

Lab File ID: A62633.D Date Analyzed: 03/27/2009 Time Analyzed: 10:04

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	638110	04.68	682391	07.78	708019	04.56
UPPER LIMIT	1276220	05.18	1364782	08.28	1416038	05.06
LOWER LIMIT	319055	04.18	341196	07.28	354010	04.06
Client Sample						
BKS108880	677174	04.68	701470	07.78	740291	04.55
BLK108880	639558	04.68	620439	07.78	701752	04.55
OU1-52GW58-0309DL	603193	04.68	611604	07.78	653108	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-001-1/3
Sample Volume :	5	Lab File ID :	A62591.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	3.4	J
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-001-1/3
Sample Volume :	5	Lab File ID :	A62591.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.1	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-001-1/3
Sample Volume :	5	Lab File ID :	A62591.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62591.D
Acq On : 26 Mar 2009 18:32
Operator : SM
Sample : 903124-001
Misc : OUI-52GW47-0309,CH2M HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 30 10:54:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

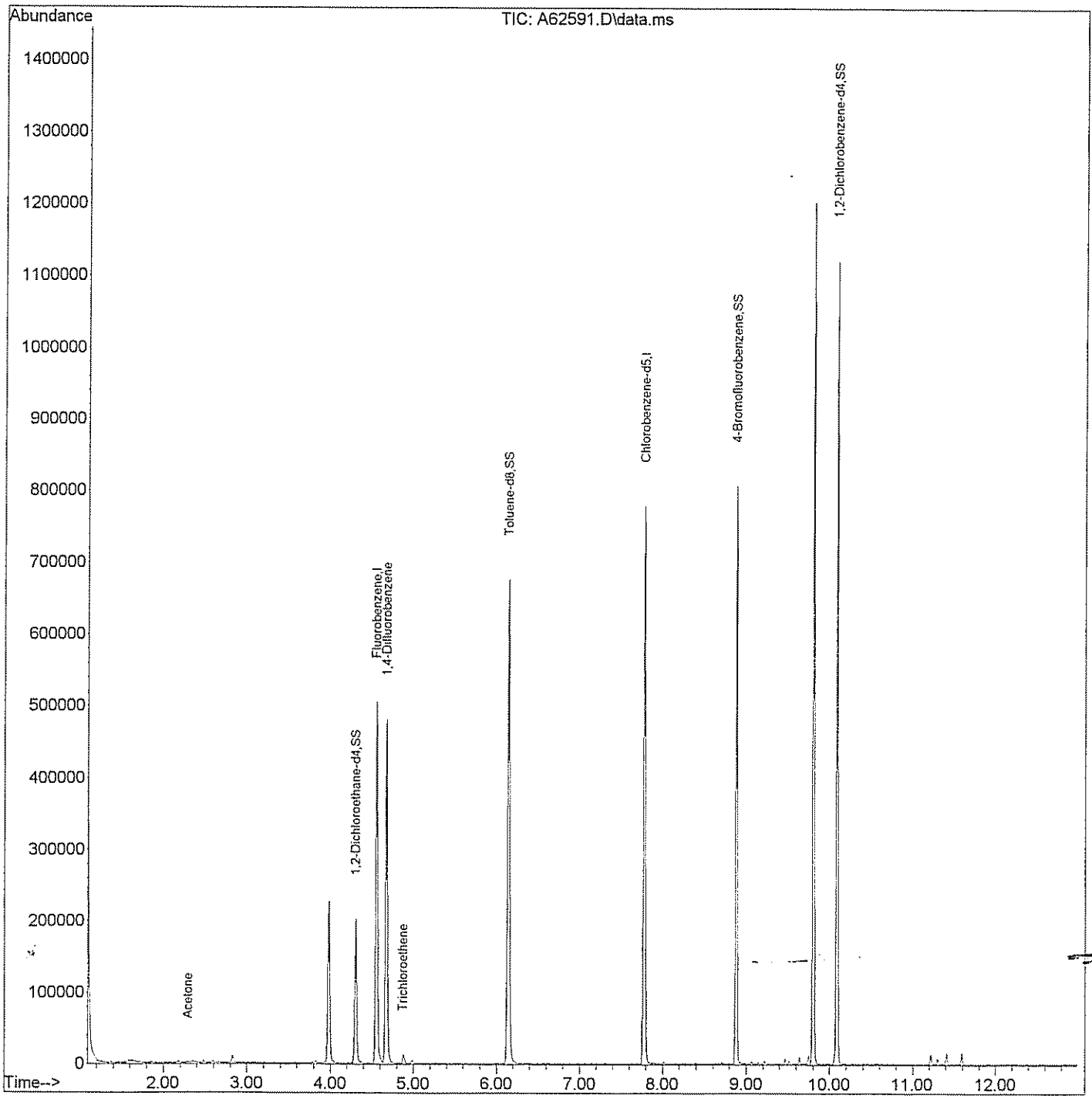
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	366281	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	346795	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	371153	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	99782	51.28	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.56%			
54) Toluene-d8	6.142	98	411486	51.21	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 102.42%			
76) 4-Bromofluorobenzene	8.881	95	163253	46.66	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 93.32%			
92) 1,2-Dichlorobenzene-d4	10.085	152	191582	55.83	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 111.66%			
Target Compounds						Qvalue
19) Acetone	2.296	43	1469	3.35	ug/L #	72
47) Trichloroethene	4.880	95	2051	1.09	ug/L #	65

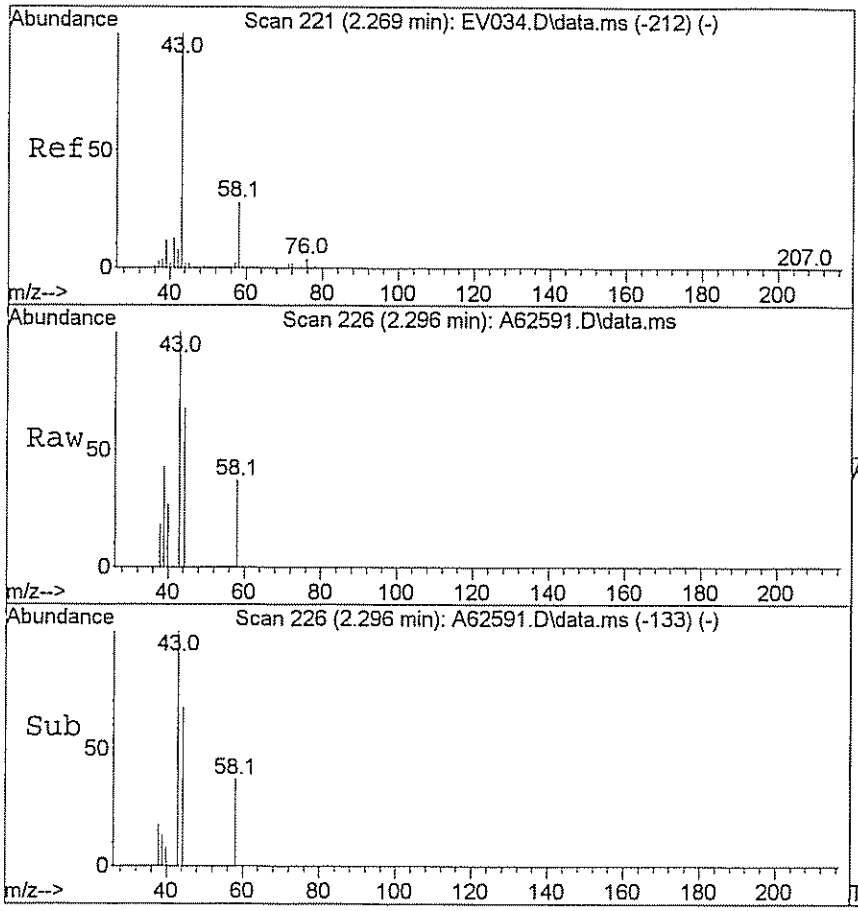
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62591.D
Acq On : 26 Mar 2009 18:32
Operator : SM
Sample : 903124-001
Misc : OUI-52GW47-0309,CH2M HILL,WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 30 10:54:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

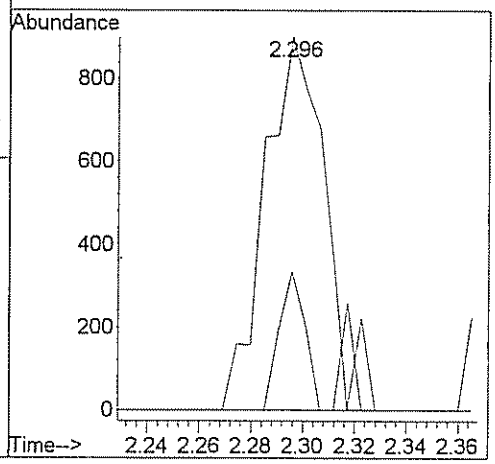


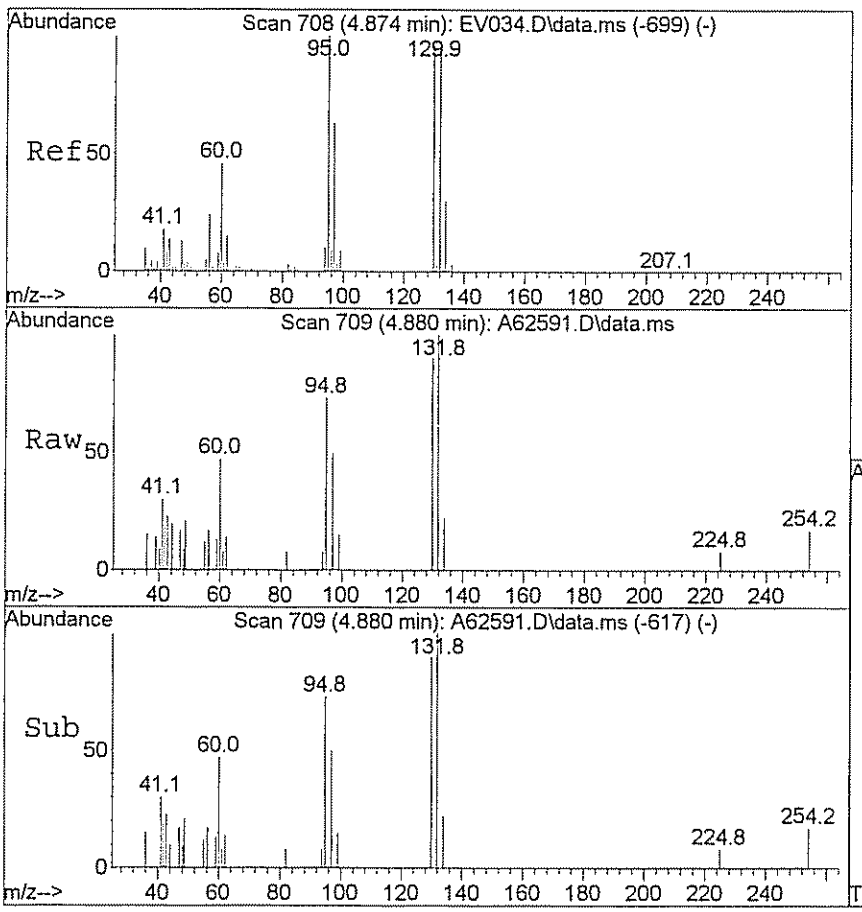


#19
Acetone
Concen: 3.35 ug/L
RT: 2.296 min Scan# 226
Delta R.T. -0.000 min
Lab File: A62591.D
Acq: 26 Mar 2009 18:32

Tgt Ion: 43 Resp: 1469

Ion	Ratio	Lower	Upper
43	100		
58	15.8	25.2	37.8#

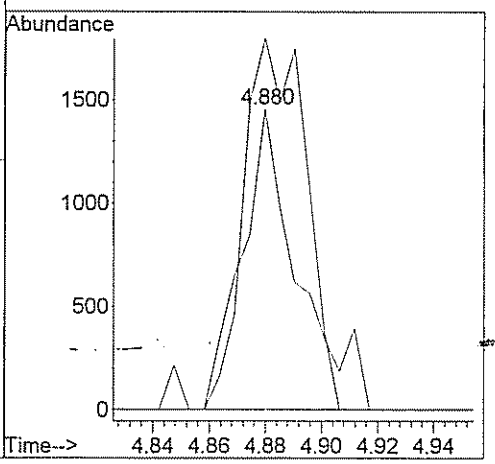




#47
Trichloroethene
Concen: 1.09 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62591.D
Acq: 26 Mar 2009 18:32

Tgt Ion: 95 Resp: 2051

Ion	Ratio	Lower	Upper
95	100		
130	134.4	79.7	119.5#



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-004-1/3
Sample Volume :	5	Lab File ID :	A62593.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-004-1/3
Sample Volume :	5	Lab File ID :	A62593.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-004-1/3
Sample Volume :	5	Lab File ID :	A62593.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62593.D
Acq On : 26 Mar 2009 19:12
Operator : SM
Sample : 903124-002
Misc : OUI-52GW71-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 30 10:57:25 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

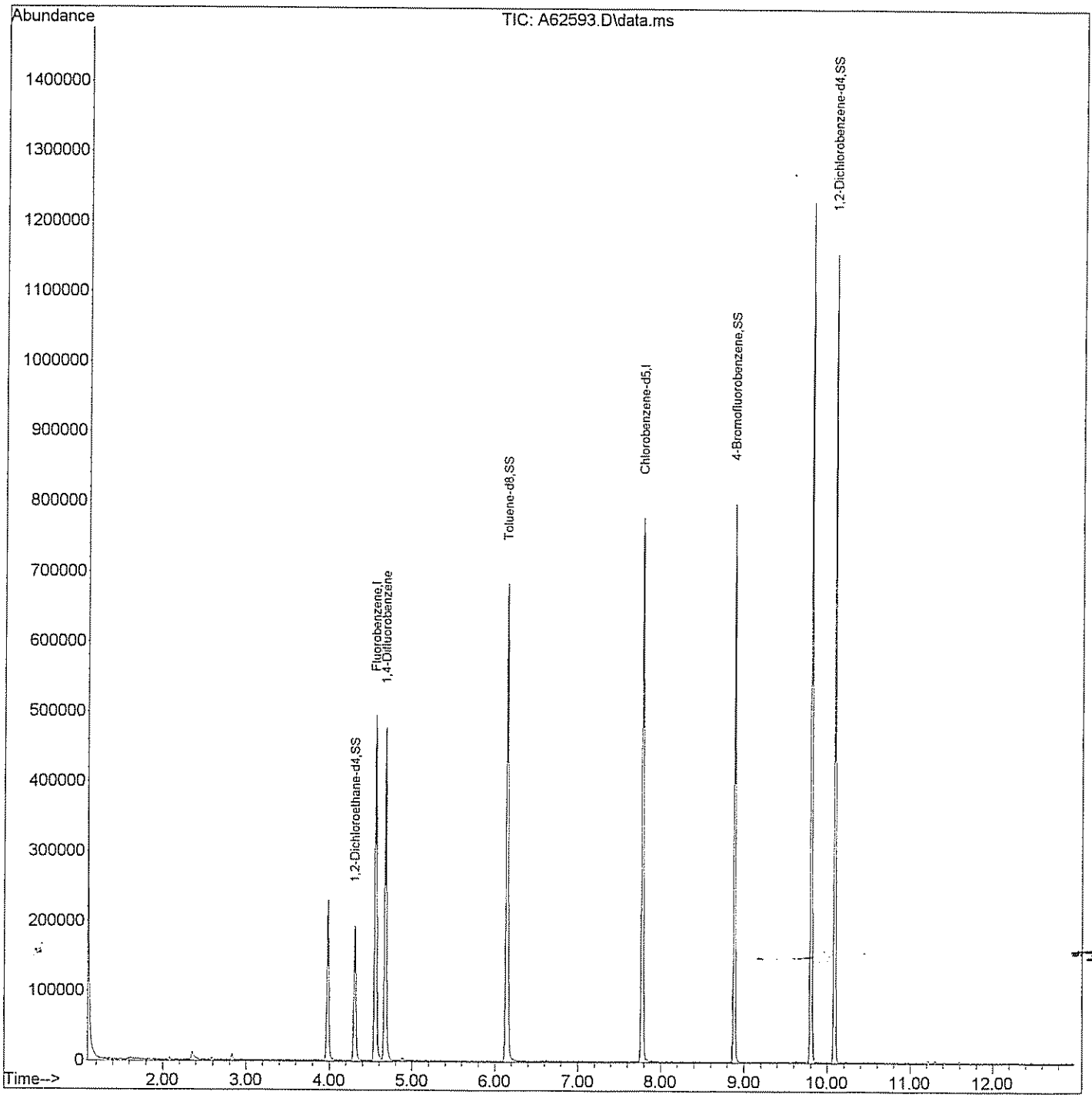
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.554	96	371882	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	344158	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	379926	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	101929	51.59	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.18%			
54) Toluene-d8	6.142	98	420705	52.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 105.50%			
76) 4-Bromofluorobenzene	8.881	95	163628	45.69	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 91.38%			
92) 1,2-Dichlorobenzene-d4	10.085	152	204768	58.30	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62593.D
Acq On : 26 Mar 2009 19:12
Operator : SM
Sample : 903124-002
Misc : OUI-52GW71-0309,CH2M HILL,WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 30 10:57:25 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-007-1/3
Sample Volume :	5	Lab File ID :	A62595.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-007-1/3
Sample Volume :	5	Lab File ID :	A62595.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-007-1/3
Sample Volume :	5	Lab File ID :	A62595.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62595.D
Acq On : 26 Mar 2009 19:53
Operator : SM
Sample : 903124-003
Misc : OUI-52GW42-0309,CH2M HILL,WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 30 11:00:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

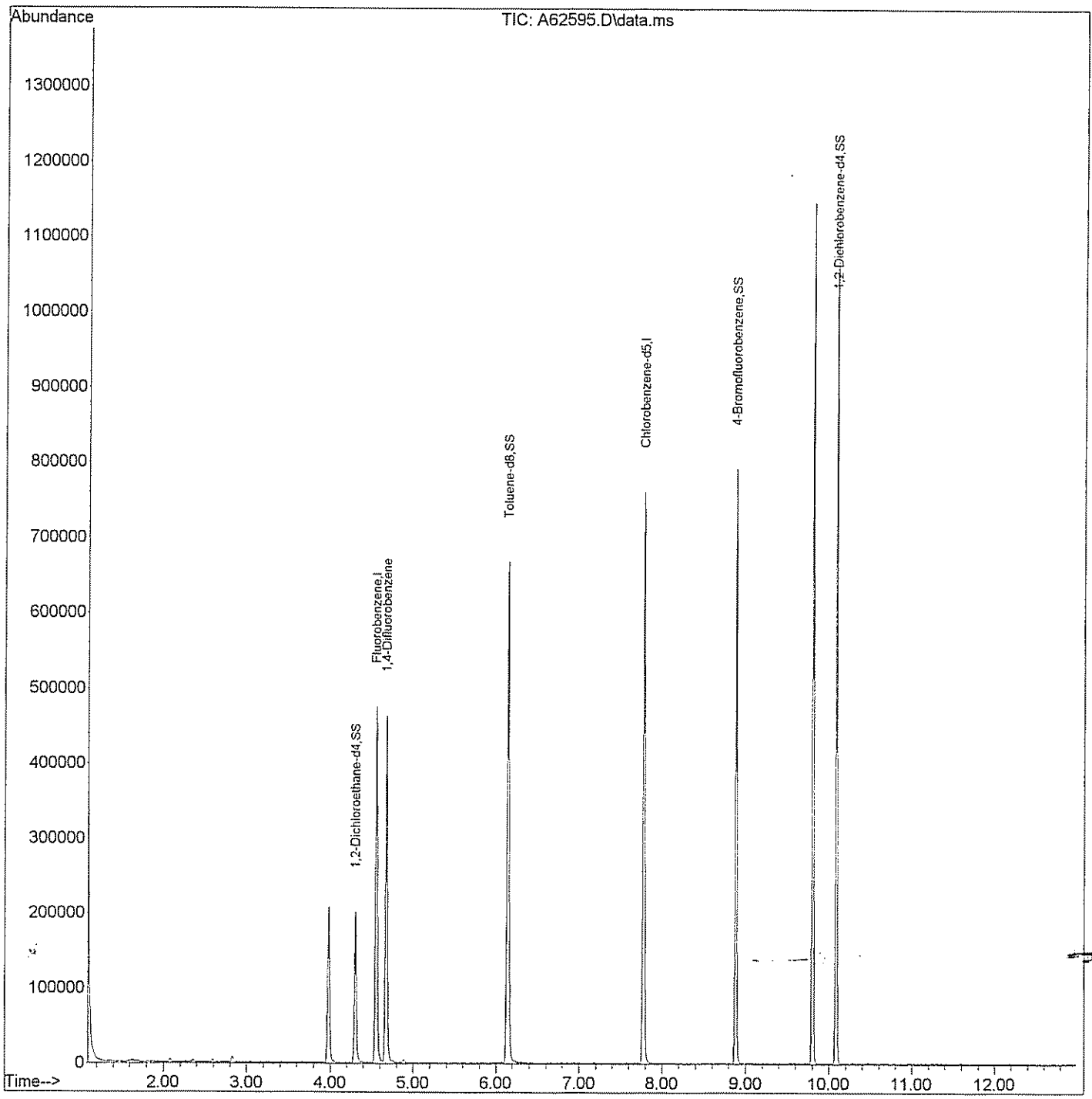
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	355961	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	334668	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	367265	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	94988	50.23	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.46%			
54) Toluene-d8	6.142	98	402336	51.88	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.76%			
76) 4-Bromofluorobenzene	8.881	95	156086	45.09	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 90.18%			
92) 1,2-Dichlorobenzene-d4	10.085	152	194339	57.24	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.48%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62595.D
Acq On : 26 Mar 2009 19:53
Operator : SM
Sample : 903124-003
Misc : OUI-52GW42-0309,CH2M HILL,WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 30 11:00:17 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-010-1/3
Sample Volume :	5	Lab File ID :	A62607.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-010-1/3
Sample Volume :	5	Lab File ID :	A62607.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-010-1/3
Sample Volume :	5	Lab File ID :	A62607.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62607.D
Acq On : 26 Mar 2009 23:56
Operator : SM
Sample : 903124-004
Misc : OUI-52GW72-0309,CH2M HILL,WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 30 12:20:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

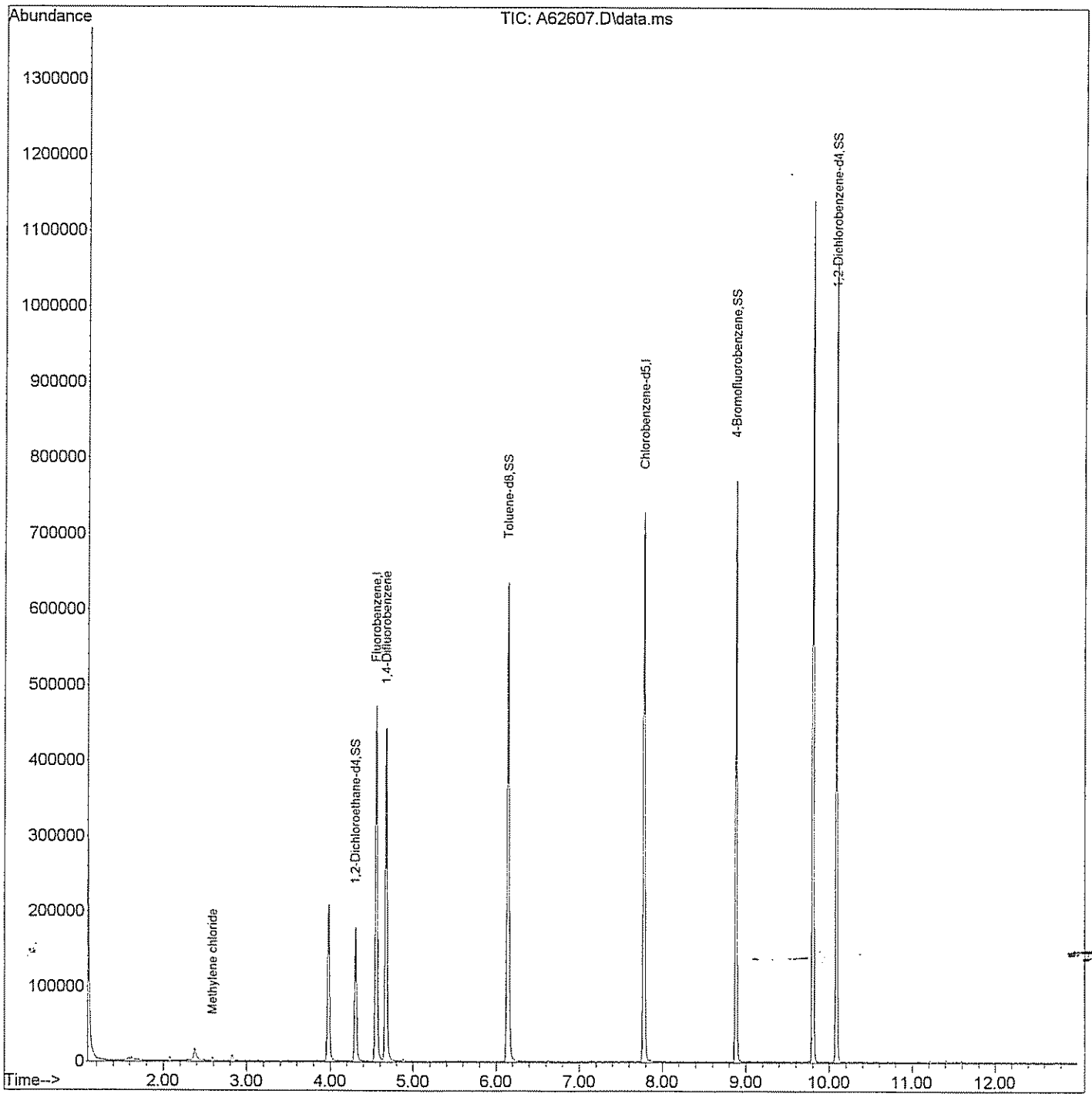
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.554	96	343854	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	328569	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	354340	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	91743	50.22	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.44%			
54) Toluene-d8	6.142	98	389372	51.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 102.28%			
76) 4-Bromofluorobenzene	8.881	95	154983	46.40	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 92.80%			
92) 1,2-Dichlorobenzene-d4	10.085	152	190129	58.04	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.08%			
Target Compounds						Qvalue
15) Methylene chloride	2.590	84	1182	2.37	ug/L	94

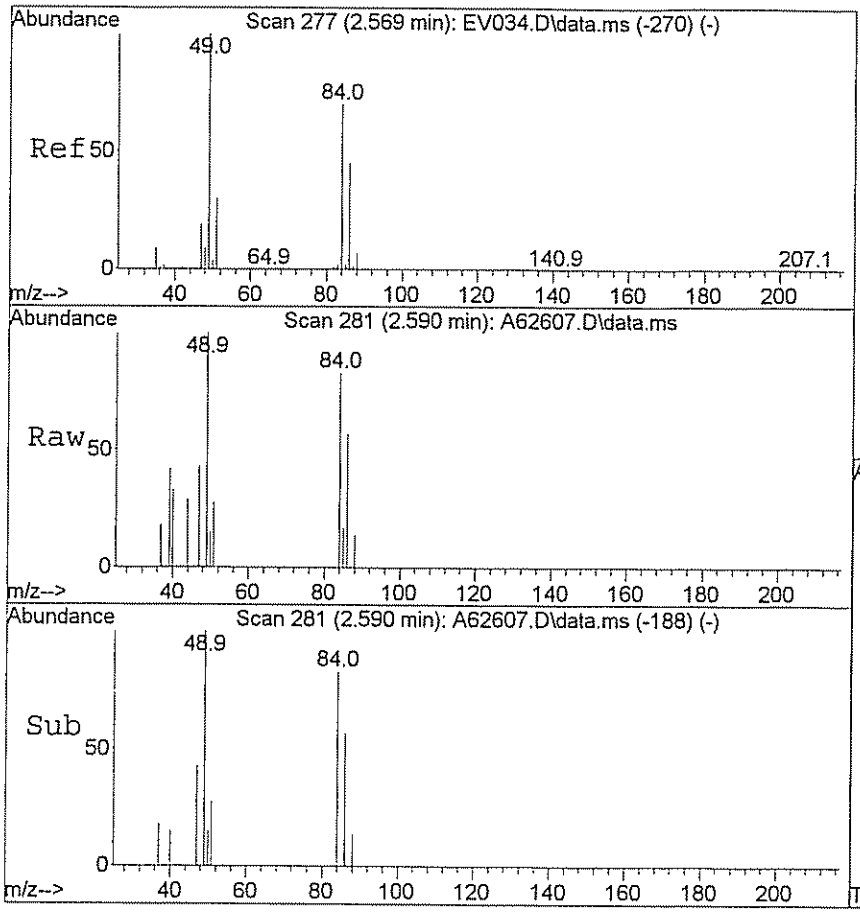
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62607.D
Acq On : 26 Mar 2009 23:56
Operator : SM
Sample : 903124-004
Misc : OUI-52GW72-0309,CH2M HILL,WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 30 12:20:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

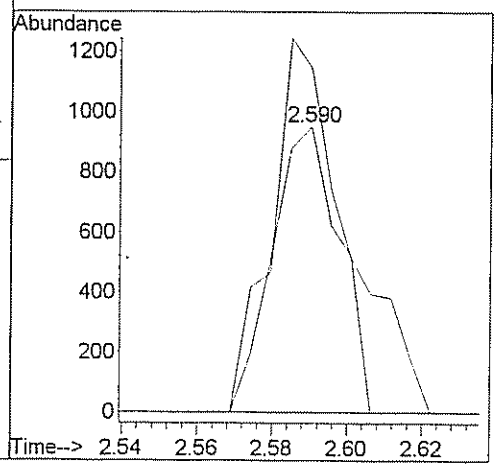




#15
Methylene chloride
Concen: 2.37 ug/L
RT: 2.590 min Scan# 281
Delta R.T. -0.005 min
Lab File: A62607.D
Acq: 26 Mar 2009 23:56

Tgt Ion: 84 Resp: 1182

Ion	Ratio	Lower	Upper
84	100		
49	149.1	125.9	188.9



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-013-1/3
Sample Volume :	5	Lab File ID :	A62609.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	0.80	J
75-35-4	1,1-Dichloroethene	2.2	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-013-1/3
Sample Volume :	5	Lab File ID :	A62609.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.6	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	30	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-013-1/3
Sample Volume :	5	Lab File ID :	A62609.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	2.7	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62609.D
Acq On : 27 Mar 2009 00:37
Operator : SM
Sample : 903124-005
Misc : OUI-52GW48-0309,CH2M HILL,WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 30 13:19:27 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

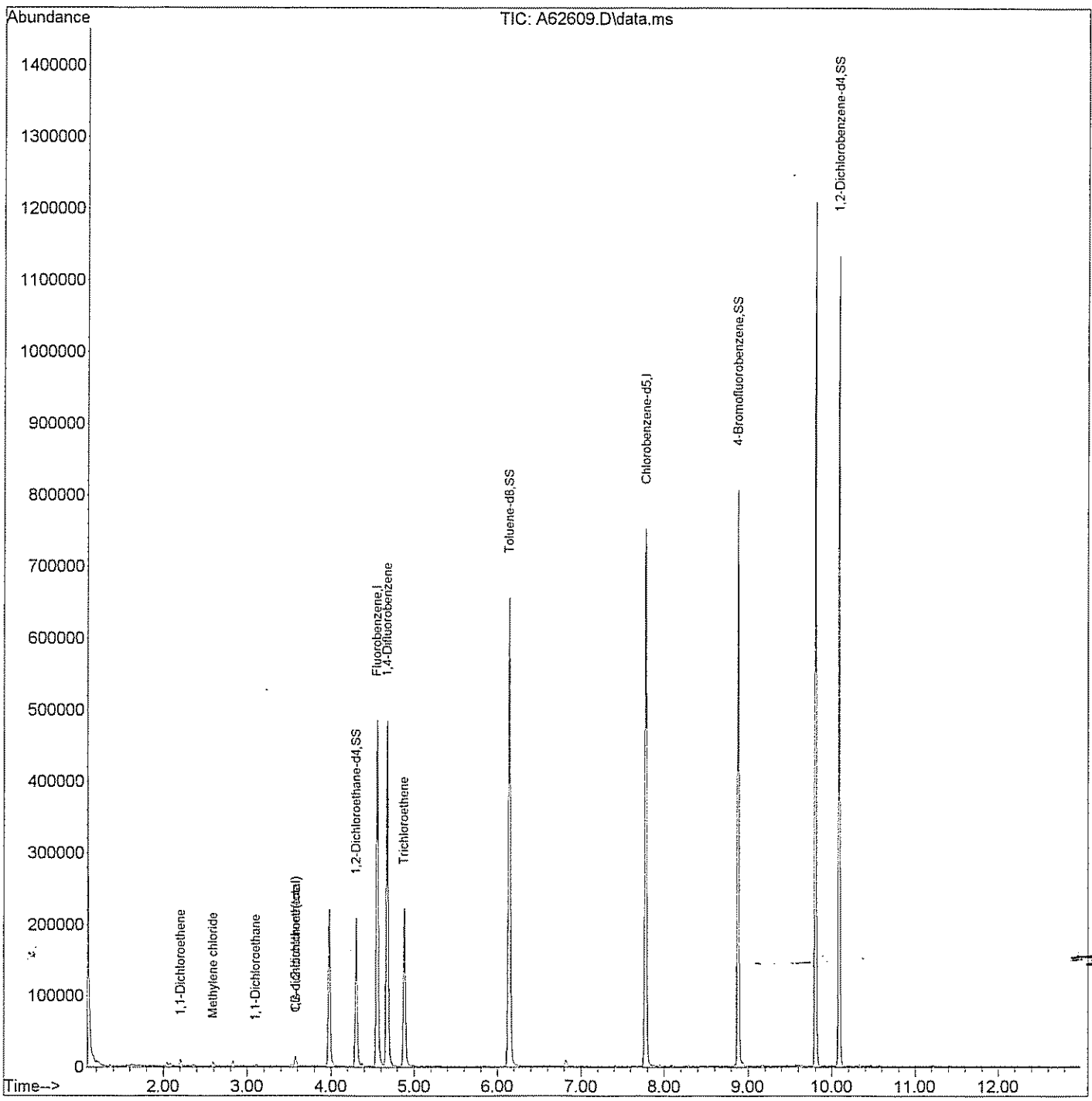
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.554	96	366448	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	341881	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	369185	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	96166	49.40	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.80%			
54) Toluene-d8	6.142	98	404485	51.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 102.12%			
76) 4-Bromofluorobenzene	8.881	95	164197	47.18	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.36%			
92) 1,2-Dichlorobenzene-d4	10.085	152	200964	58.88	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.76%			
Target Compounds						Qvalue
12) 1,1-Dichloroethene	2.205	96	2969	2.23	ug/L #	52
15) Methylene chloride	2.590	84	1570	2.55	ug/L	79
18) 1,1-Dichloroethane	3.104	63	2191	0.80	ug/L	93
28) Cis-1,2-dichloroethene	3.575	96	5056	2.73	ug/L #	76
29) 1,2-dichloroethene(total)	3.575	96	5183m	2.64	ug/L	
47) Trichloroethene	4.880	95	55055	29.63	ug/L #	74

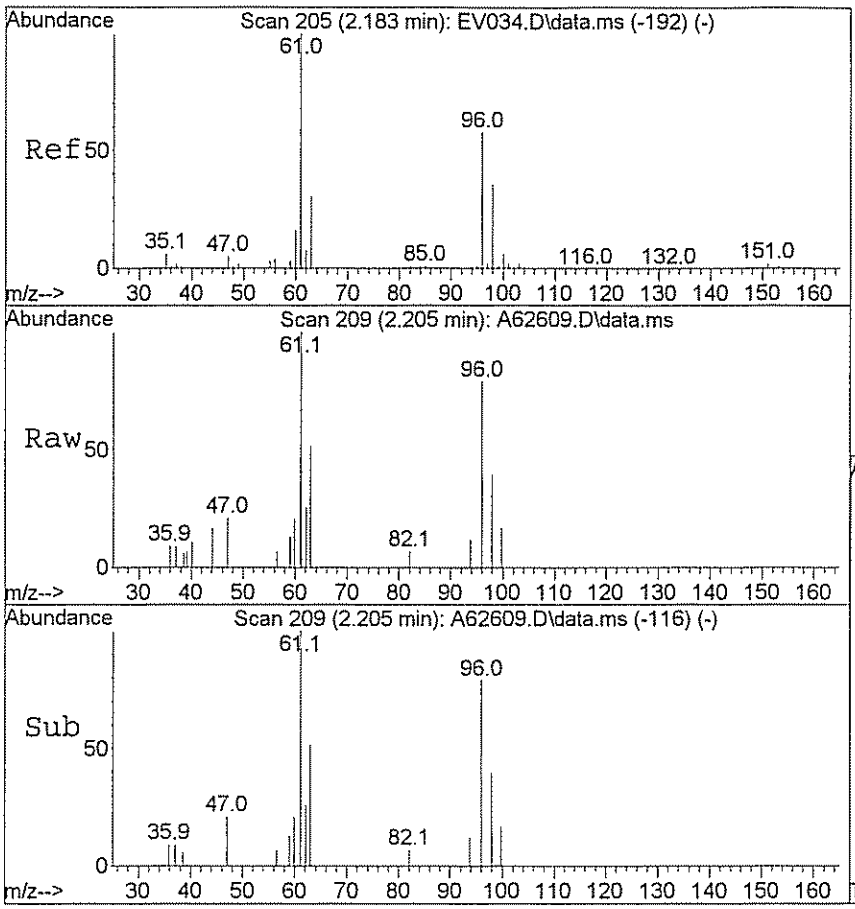
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62609.D
Acq On : 27 Mar 2009 00:37
Operator : SM
Sample : 903124-005
Misc : OUI-52GW48-0309,CH2M HILL,WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 30 13:19:27 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

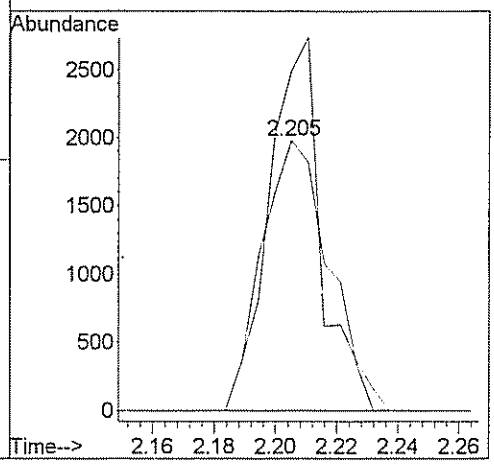


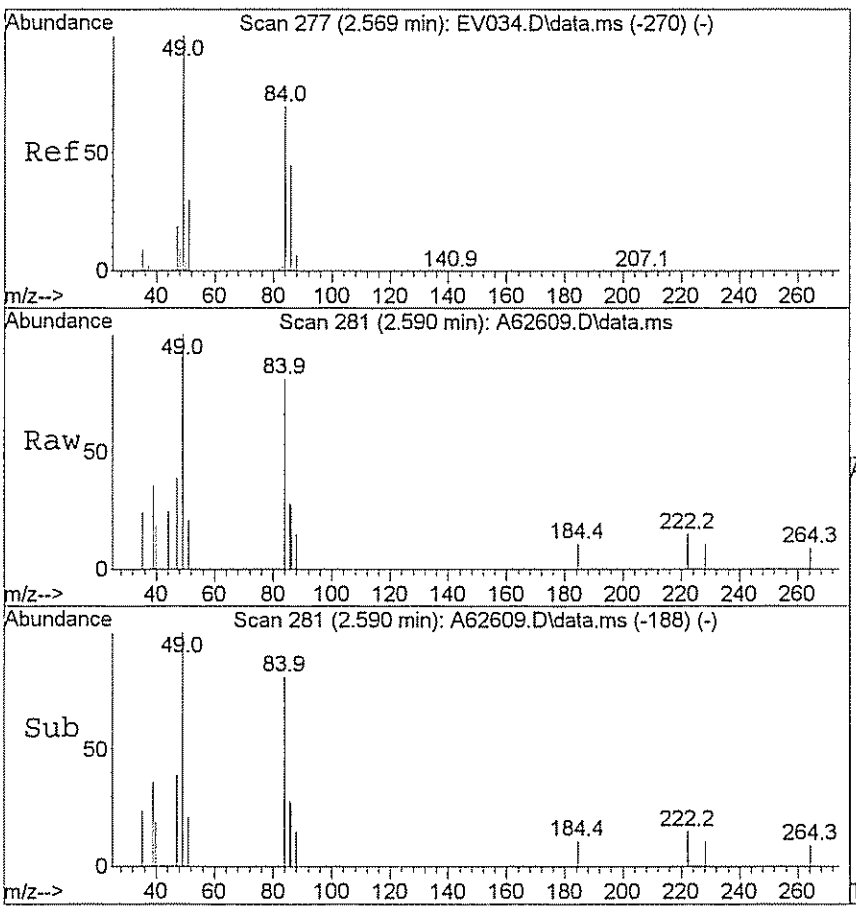


#12
1,1-Dichloroethene
Concen: 2.23 ug/L
RT: 2.205 min Scan# 209
Delta R.T. -0.005 min
Lab File: A62609.D
Acq: 27 Mar 2009 00:37

Tgt Ion: 96 Resp: 2969

Ion	Ratio	Lower	Upper
96	100		
61	110.4	142.8	214.2#

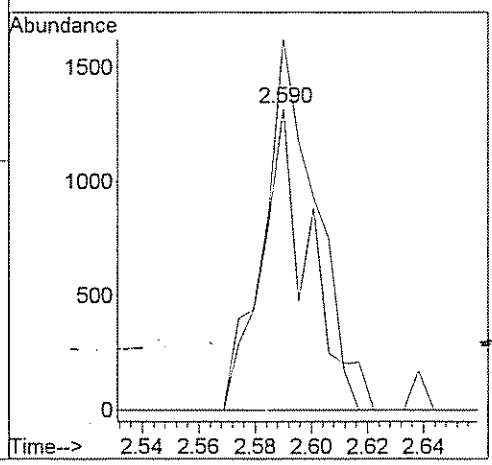


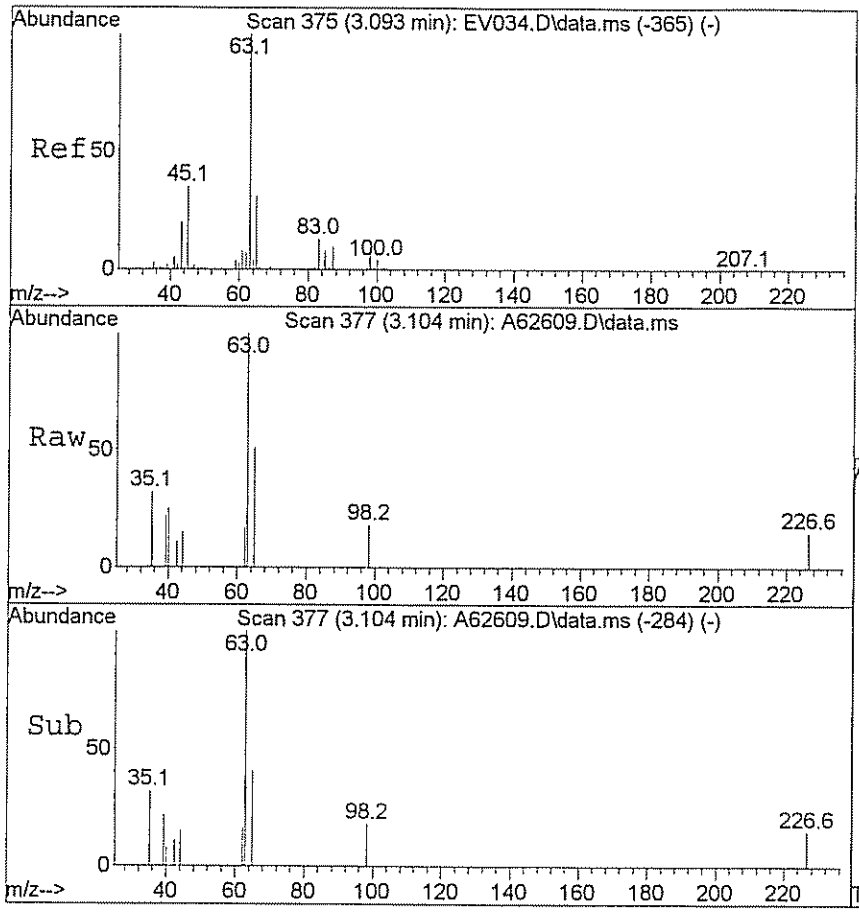


#15
Methylene chloride
Concen: 2.55 ug/L
RT: 2.590 min Scan# 281
Delta R.T. -0.005 min
Lab File: A62609.D
Acq: 27 Mar 2009 00:37

Tgt Ion: 84 Resp: 1570

Ion	Ratio	Lower	Upper
84	100		
49	130.2	125.9	188.9

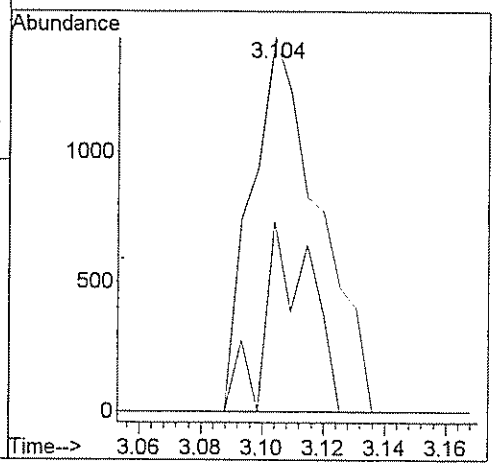


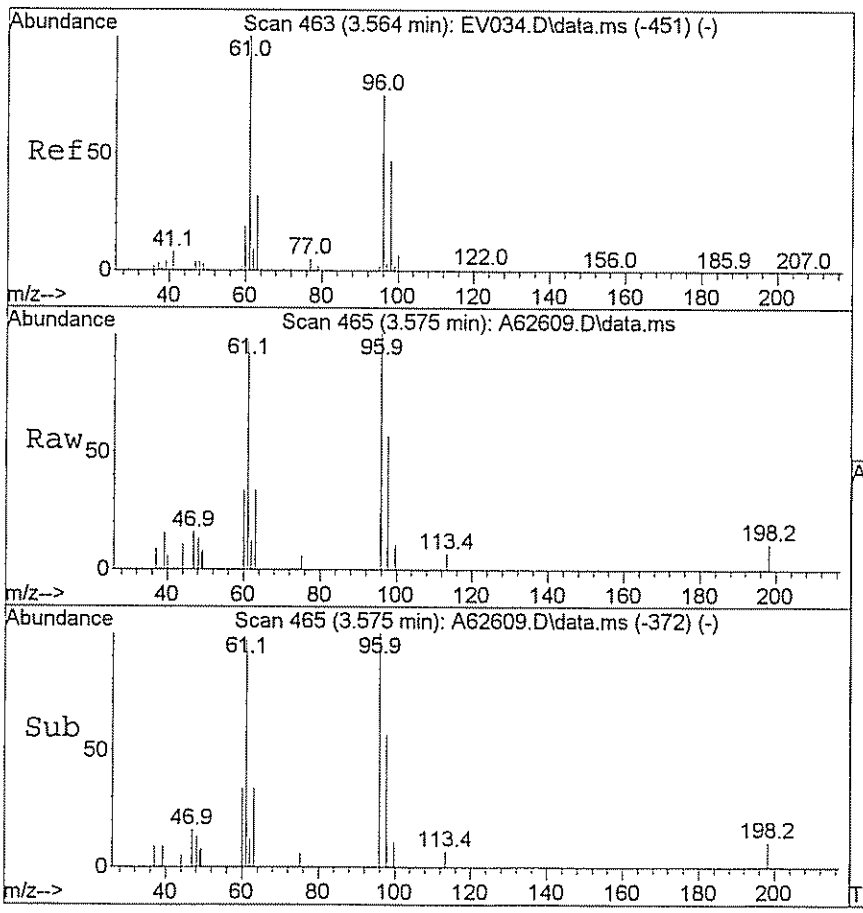


#18
1,1-Dichloroethane
Concen: 0.80 ug/L
RT: 3.104 min Scan# 377
Delta R.T. -0.005 min
Lab File: A62609.D
Acq: 27 Mar 2009 00:37

Tgt Ion: 63 Resp: 2191

Ion	Ratio	Lower	Upper
63	100		
65	35.3	25.0	37.4

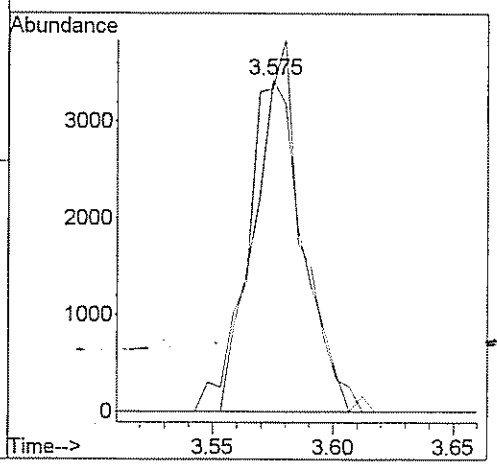


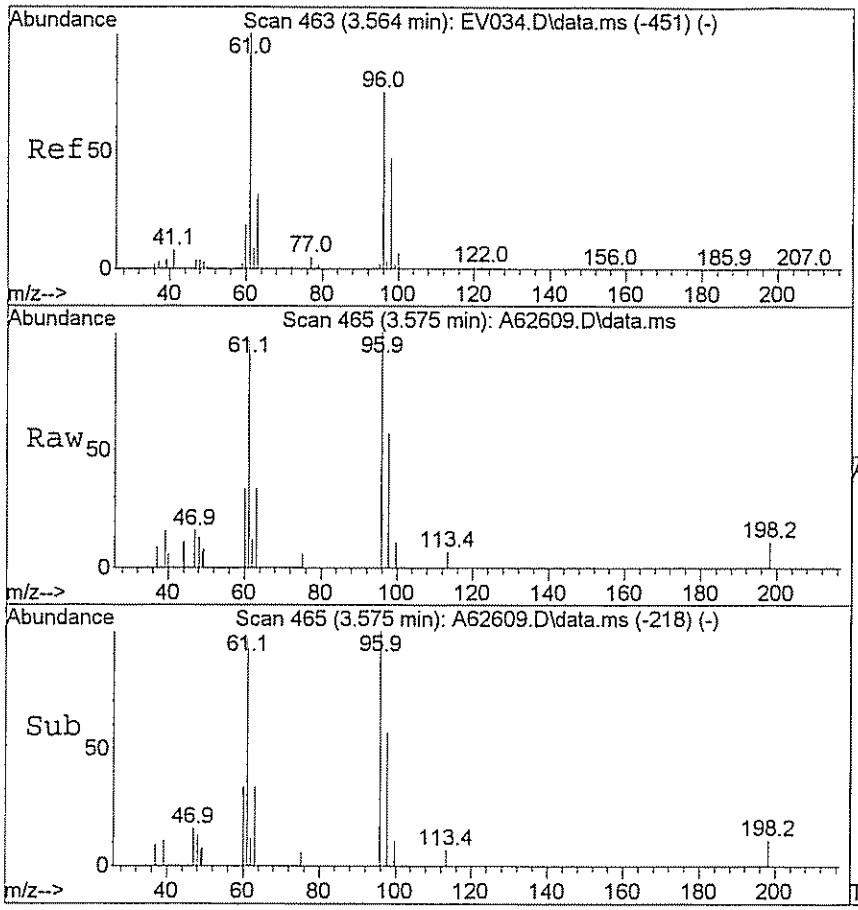


#28
Cis-1,2-dichloroethene
Concen: 2.73 ug/L
RT: 3.575 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62609.D
Acq: 27 Mar 2009 00:37

Tgt Ion: 96 Resp: 5056

Ion	Ratio	Lower	Upper
96	100		
61	114.3	115.0	172.6#

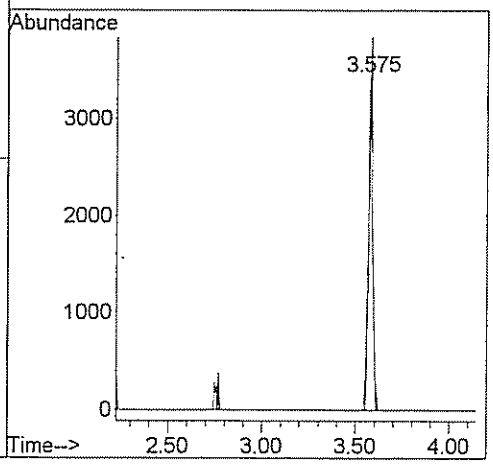


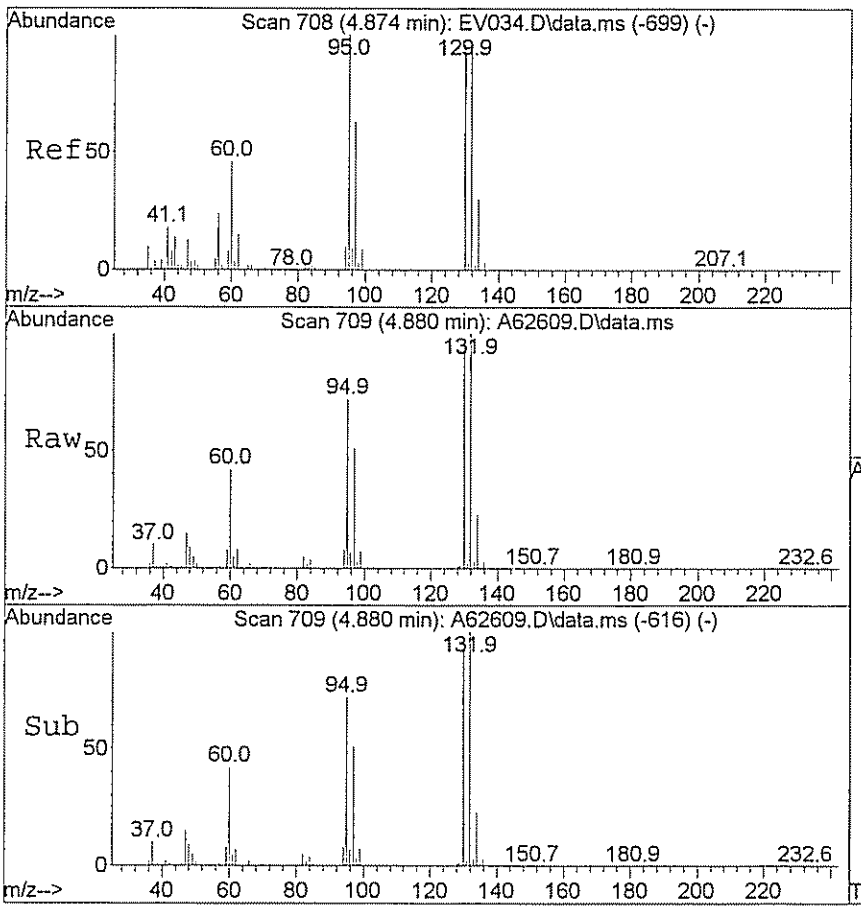


#29
1,2-dichloroethene(total)
Concen: 2.64 ug/L m
RT: 3.575 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62609.D
Acq: 27 Mar 2009 00:37

Tgt Ion: 96 Resp: 5183

Ion	Ratio	Lower	Upper
96	100		
61	3.4	115.0	172.6#

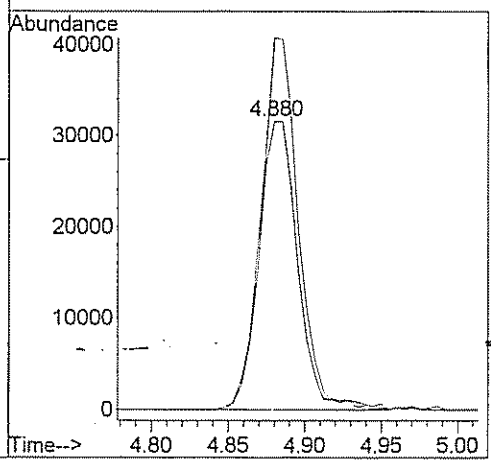




#47
Trichloroethene
Concen: 29.63 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62609.D
Acq: 27 Mar 2009 00:37

Tgt Ion: 95 Resp: 55055

Ion	Ratio	Lower	Upper
95	100		
130	125.9	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-016-1/3
Sample Volume :	5	Lab File ID :	A62611.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	4.0	J
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-016-1/3
Sample Volume :	5	Lab File ID :	A62611.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	8.6	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-016-1/3
Sample Volume :	5	Lab File ID :	A62611.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.6	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62611.D
Acq On : 27 Mar 2009 1:18
Operator : SM
Sample : 903124-006
Misc : OUI-52GW56-0309,CH2M HILL,WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 30 13:17:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

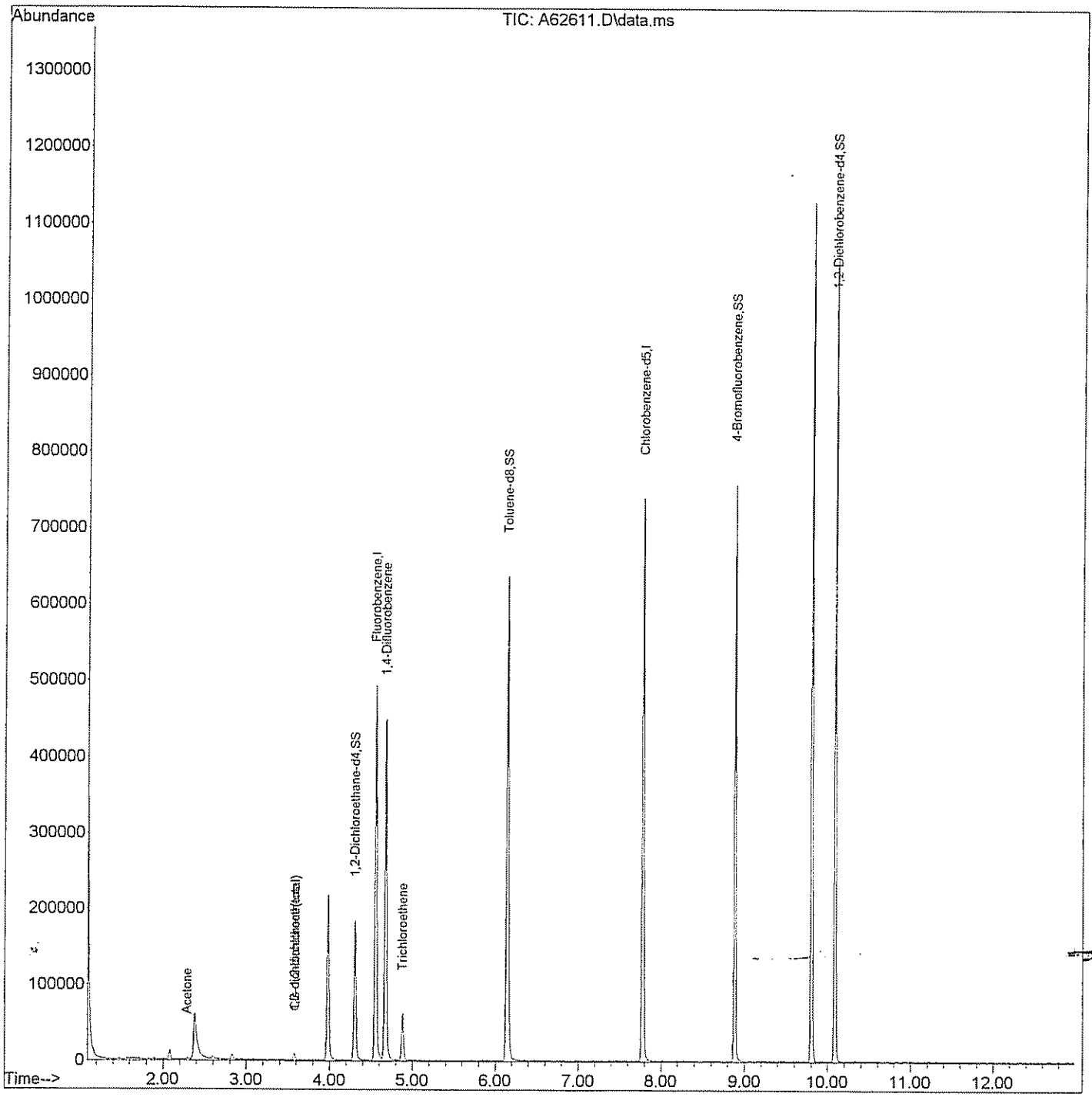
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	360562	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	330429	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	366816	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	95765	49.99	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.98%			
54) Toluene-d8	6.142	98	397942	51.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.94%			
76) 4-Bromofluorobenzene	8.881	95	156333	45.21	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 90.42%			
92) 1,2-Dichlorobenzene-d4	10.085	152	194570	57.38	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.76%			
Target Compounds						Qvalue
19) Acetone	2.290	43	1831	3.97	ug/L	96
28) Cis-1,2-dichloroethene	3.580	96	2987	1.64	ug/L	78
29) 1,2-dichloroethene(total)	3.580	96	3135m	1.62	ug/L	
47) Trichloroethene	4.885	95	15481	8.62	ug/L #	71

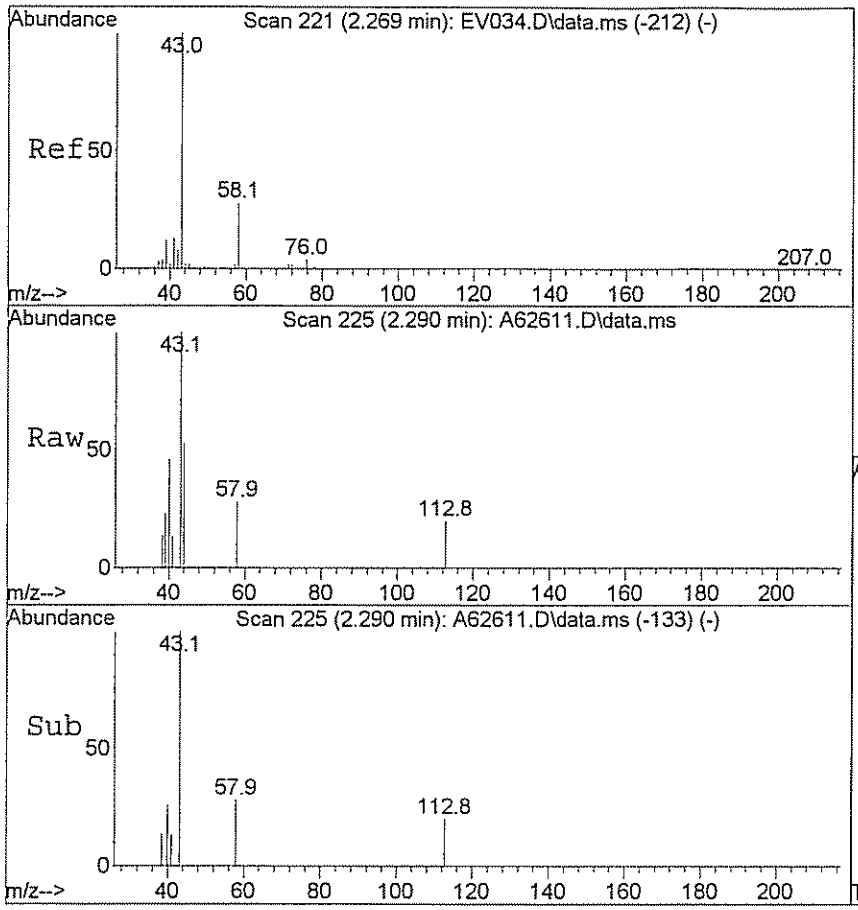
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62611.D
Acq On : 27 Mar 2009 1:18
Operator : SM
Sample : 903124-006
Misc : OUI-52GW56-0309,CH2M HILL,WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 30 13:17:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

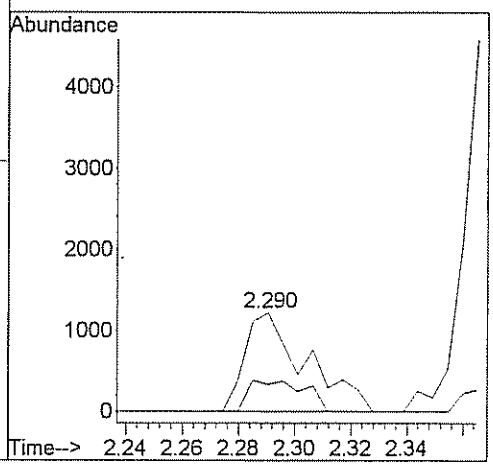


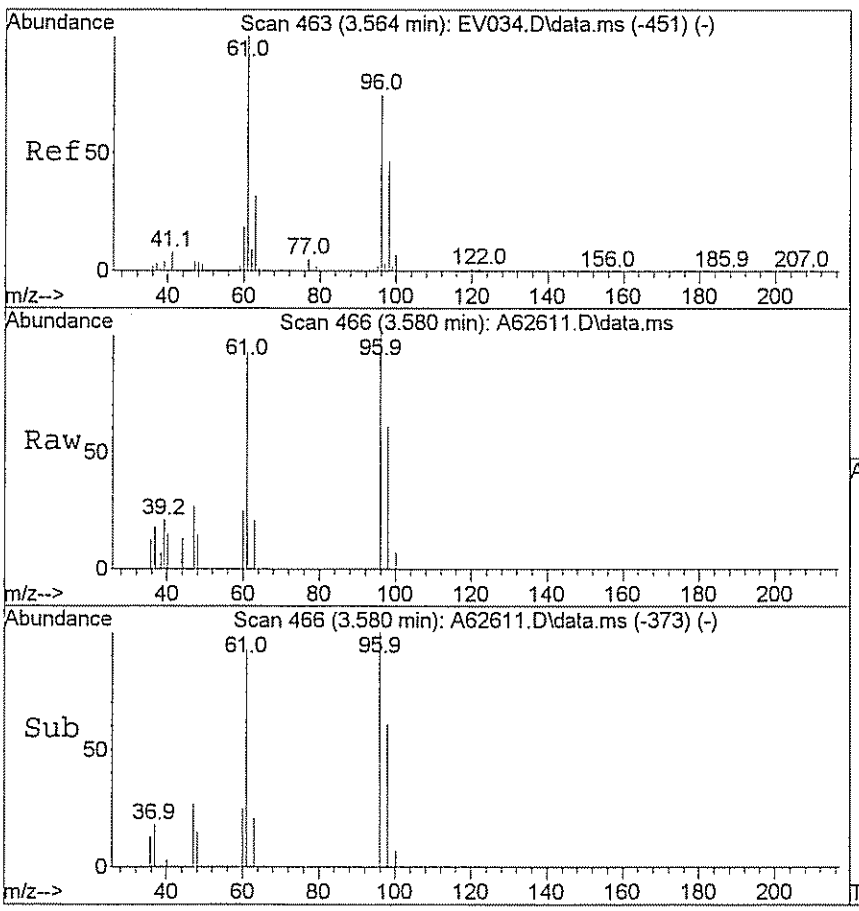


#19
Acetone
Concen: 3.97 ug/L
RT: 2.290 min Scan# 225
Delta R.T. -0.005 min
Lab File: A62611.D
Acq: 27 Mar 2009 1:18

Tgt Ion: 43 Resp: 1831

Ion	Ratio	Lower	Upper
43	100		
58	29.1	25.2	37.8

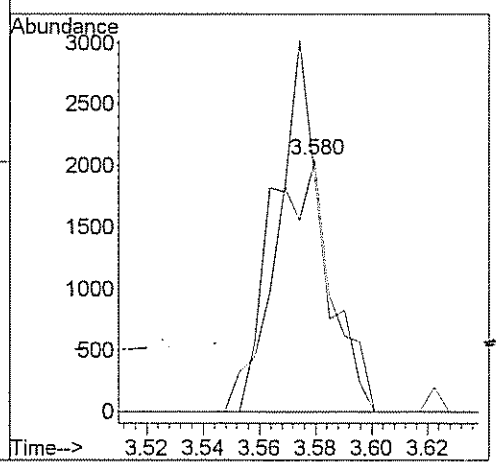


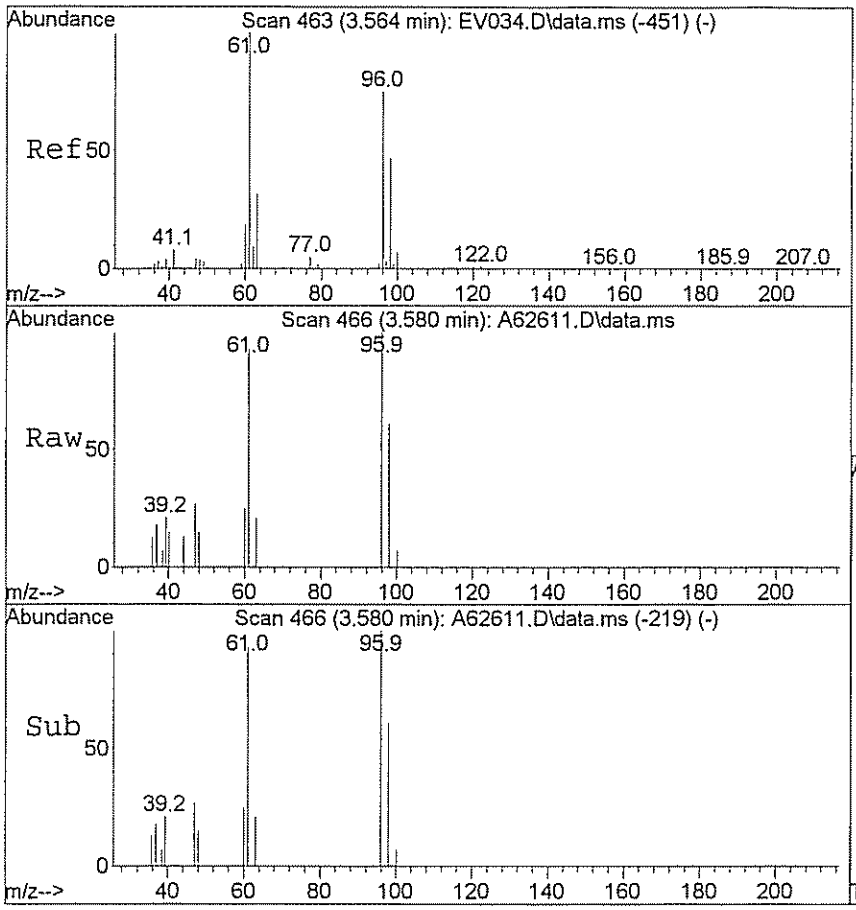


#28
Cis-1,2-dichloroethene
Concen: 1.64 ug/L
RT: 3.580 min Scan# 466
Delta R.T. 0.000 min
Lab File: A62611.D
Acq: 27 Mar 2009 1:18

Tgt Ion: 96 Resp: 2987

Ion	Ratio	Lower	Upper
96	100		
61	117.2	115.0	172.6

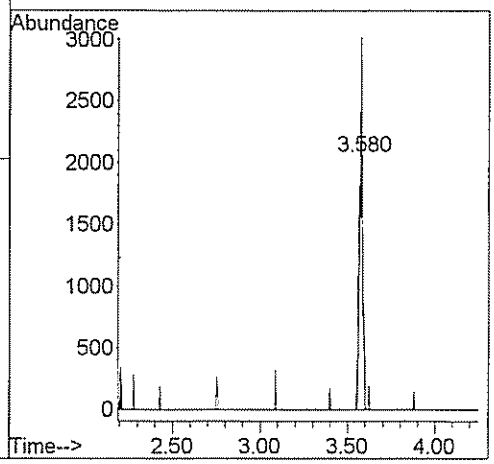


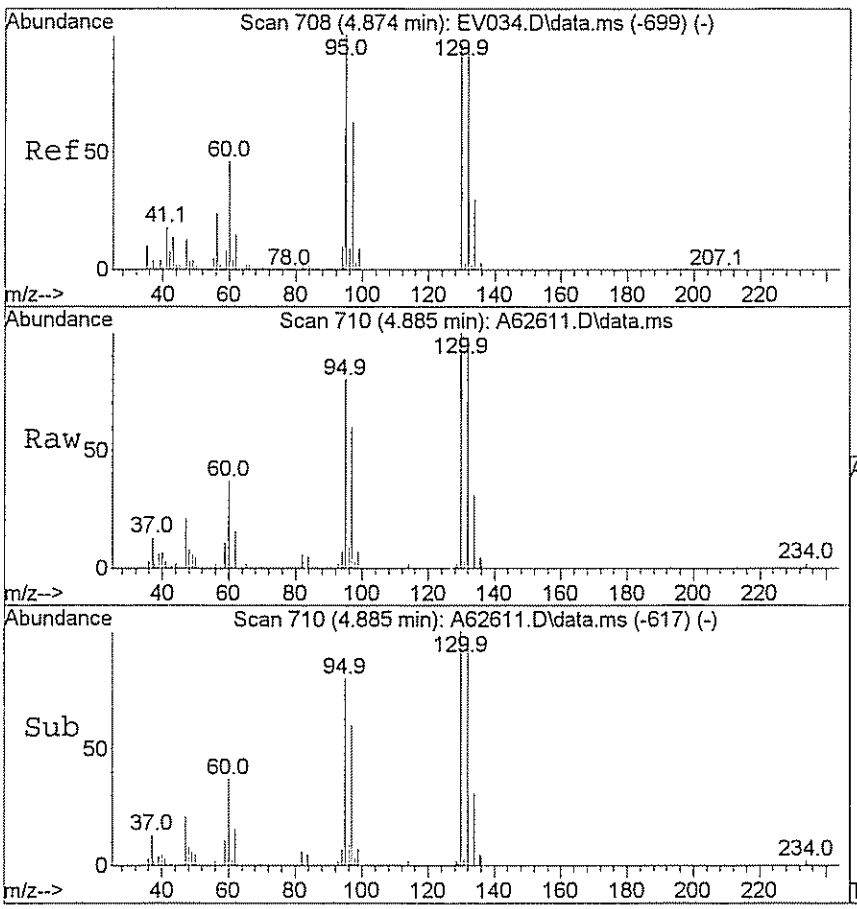


#29
1,2-dichloroethene(total)
Concen: 1.62 ug/L m
RT: 3.580 min Scan# 466
Delta R.T. 0.824 min
Lab File: A62611.D
Acq: 27 Mar 2009 1:18

Tgt Ion: 96 Resp: 3135

Ion	Ratio	Lower	Upper
96	100		
61	0.0	115.0	172.6#

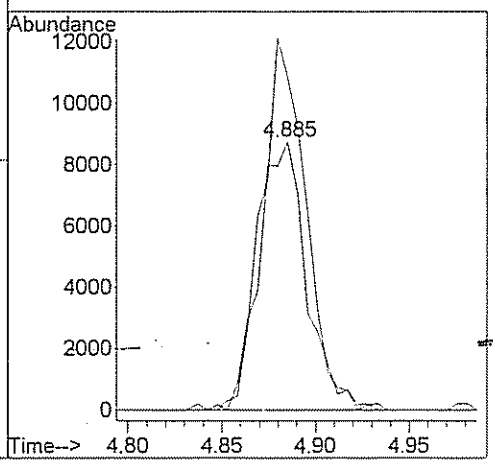




#47
Trichloroethene
Concen: 8.62 ug/L
RT: 4.885 min Scan# 710
Delta R.T. 0.000 min
Lab File: A62611.D
Acq: 27 Mar 2009 1:18

Tgt Ion: 95 Resp: 15481

Ion	Ratio	Lower	Upper
95	100		
130	128.5	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-019-1/3
Sample Volume :	5	Lab File ID :	A62613.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	5.0	
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-019-1/3
Sample Volume :	5	Lab File ID :	A62613.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	2.0	
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.3	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-019-1/3
Sample Volume :	5	Lab File ID :	A62613.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	5.6	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62613.D
Acq On : 27 Mar 2009 1:58
Operator : SM
Sample : 903124-007
Misc : OUI-52GW39-0309,CH2M HILL,WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 30 12:54:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

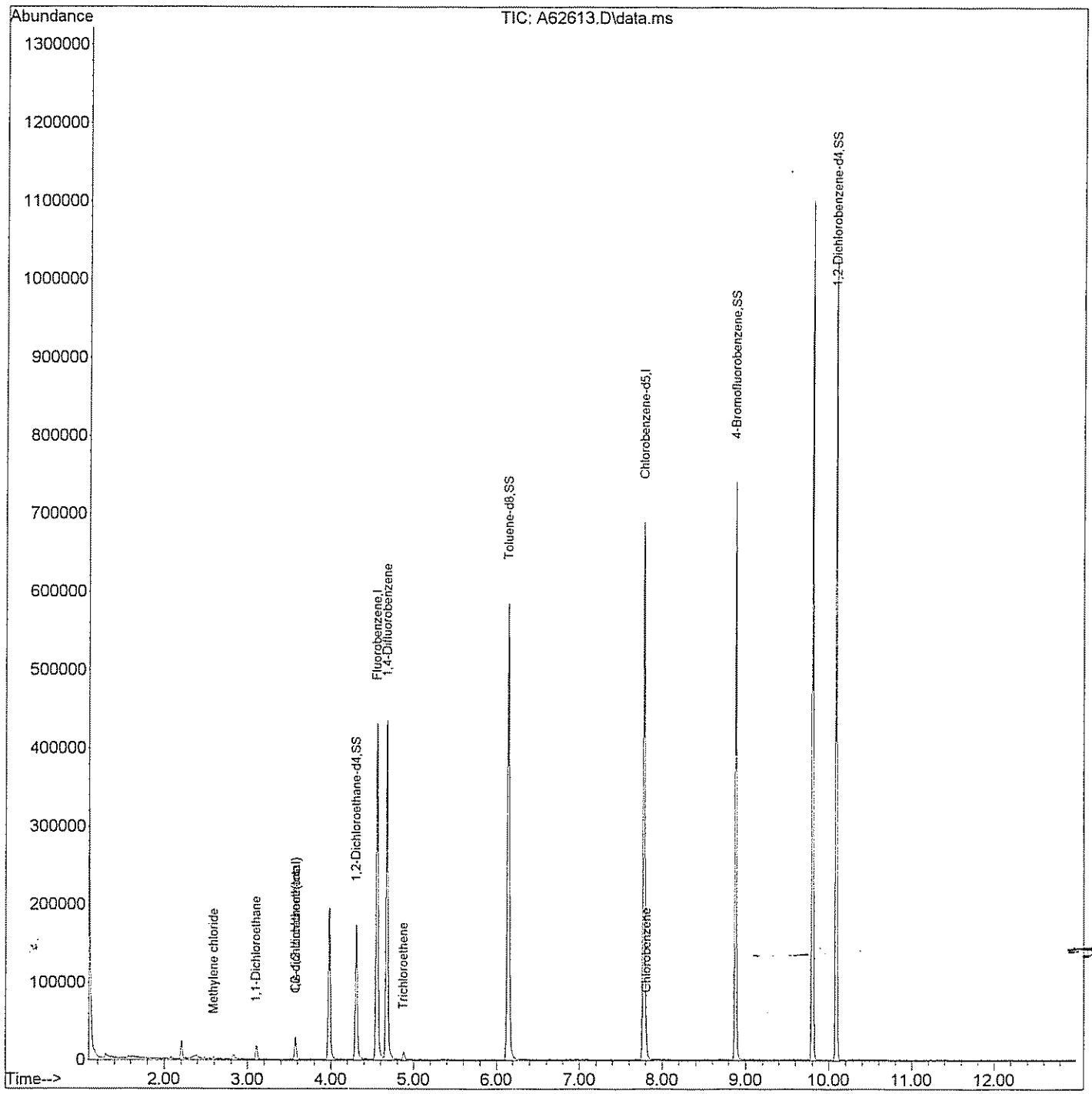
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	332582	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	308870	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	340152	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	89774	50.81	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.62%			
54) Toluene-d8	6.142	98	368765	51.52	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.04%			
76) 4-Bromofluorobenzene	8.881	95	151220	47.16	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 94.32%			
92) 1,2-Dichlorobenzene-d4	10.085	152	185661	59.04	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.08%			
Target Compounds						Qvalue
15) Methylene chloride	2.590	84	813	2.17	ug/L #	66
18) 1,1-Dichloroethane	3.104	63	12490	5.02	ug/L	99
28) Cis-1,2-dichloroethene	3.574	96	9388	5.58	ug/L	78
29) 1,2-dichloroethene(total)	3.574	96	9838m	5.52	ug/L	
47) Trichloroethene	4.874	95	2192	1.31	ug/L #	79
67) Chlorobenzene	7.811	112	11568	2.01	ug/L #	71

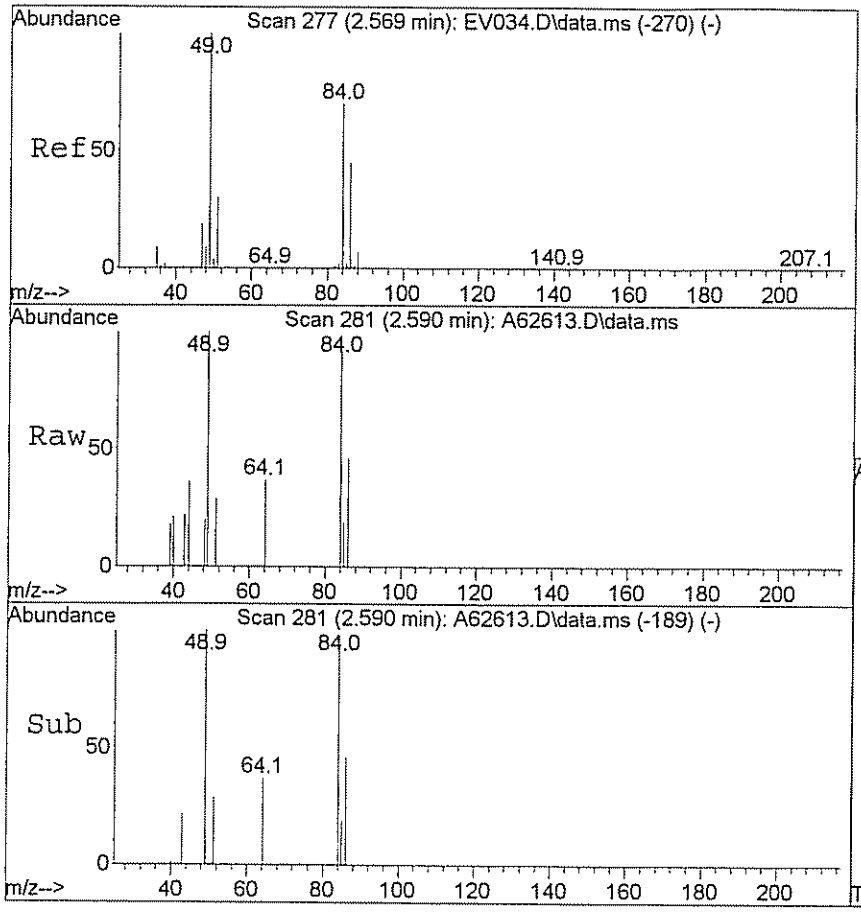
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62613.D
Acq On : 27 Mar 2009 1:58
Operator : SM
Sample : 903124-007
Misc : OUI-52GW39-0309,CH2M HILL,WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 30 12:54:20 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

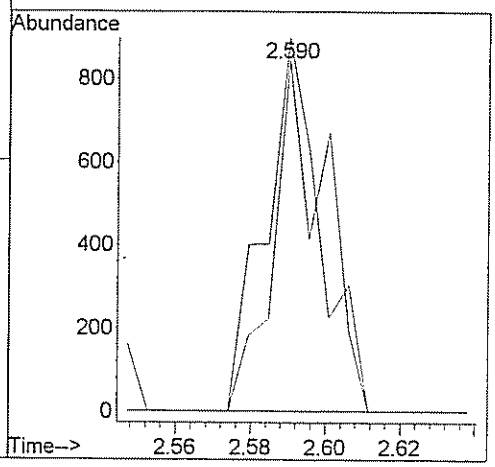


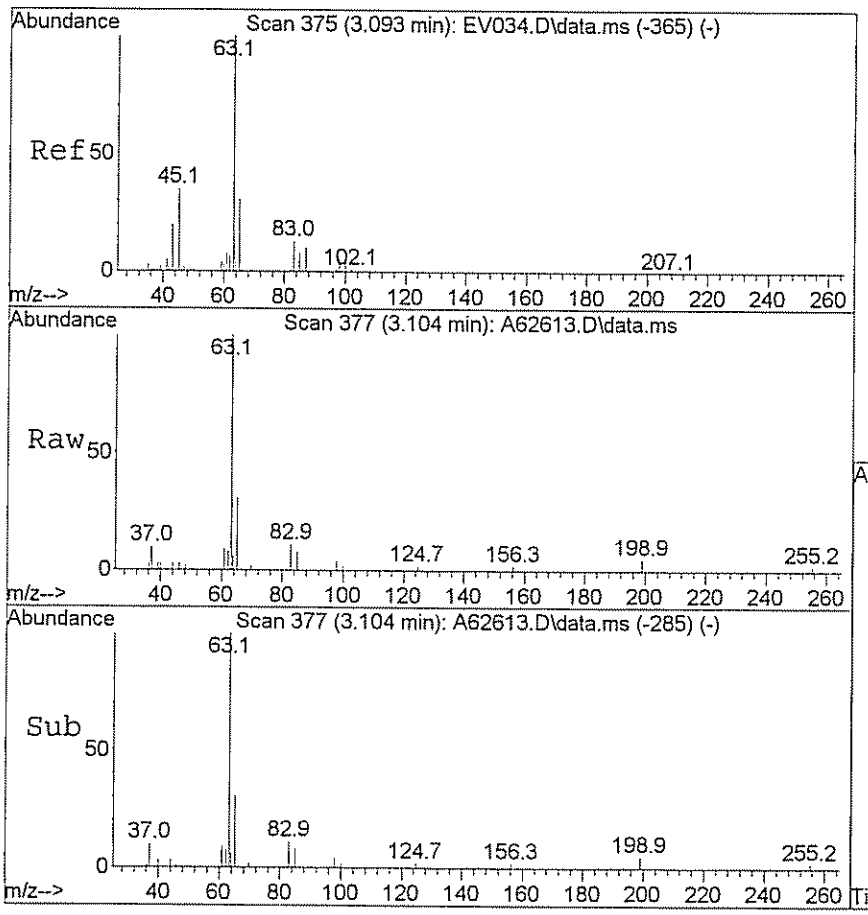


#15
Methylene chloride
Concen: 2.17 ug/L
RT: 2.590 min Scan# 281
Delta R.T. -0.005 min
Lab File: A62613.D
Acq: 27 Mar 2009 1:58

Tgt Ion: 84 Resp: 813

Ion	Ratio	Lower	Upper
84	100		
49	112.9	125.9	188.9#

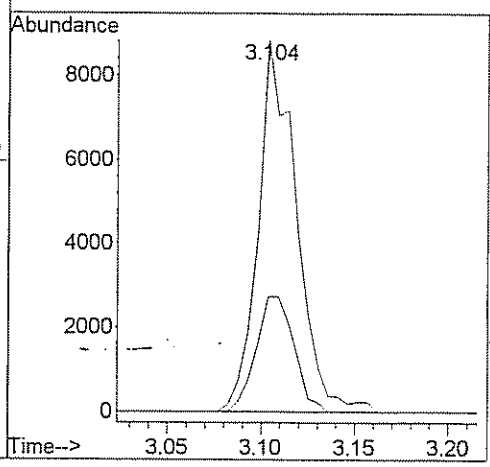


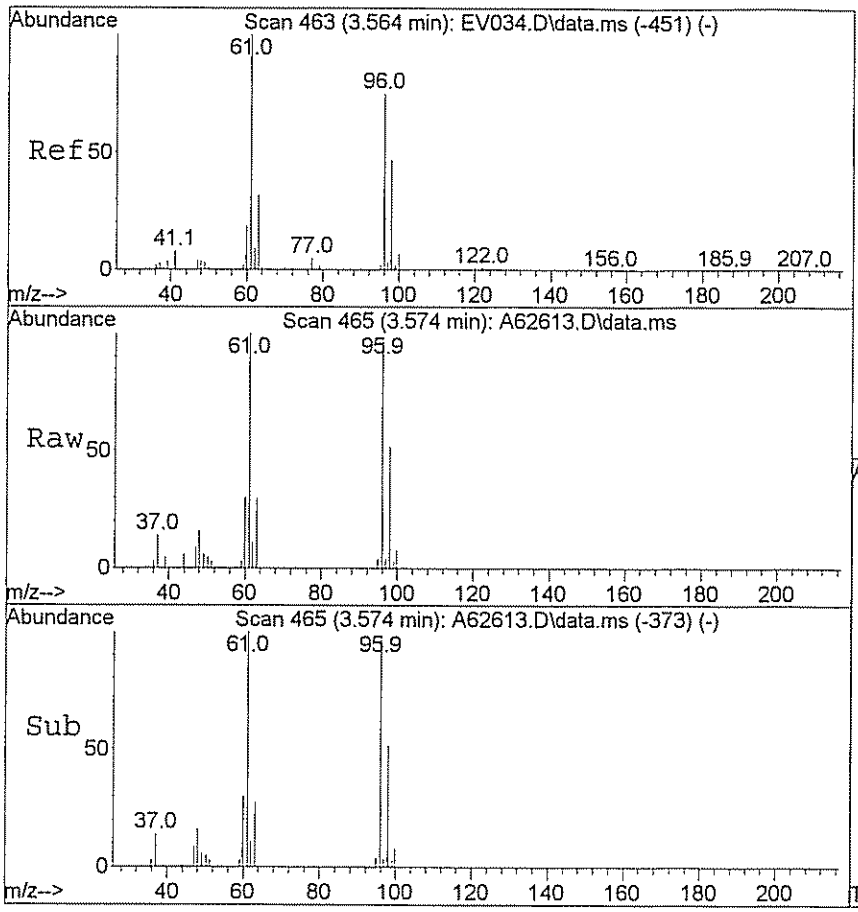


#18
1,1-Dichloroethane
Concen: 5.02 ug/L
RT: 3.104 min Scan# 377
Delta R.T. -0.005 min
Lab File: A62613.D
Acq: 27 Mar 2009 1:58

Tgt Ion: 63 Resp: 12490

Ion	Ratio	Lower	Upper
63	100		
65	30.6	25.0	37.4

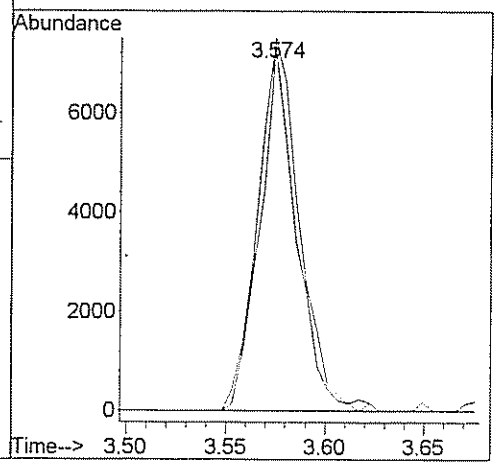


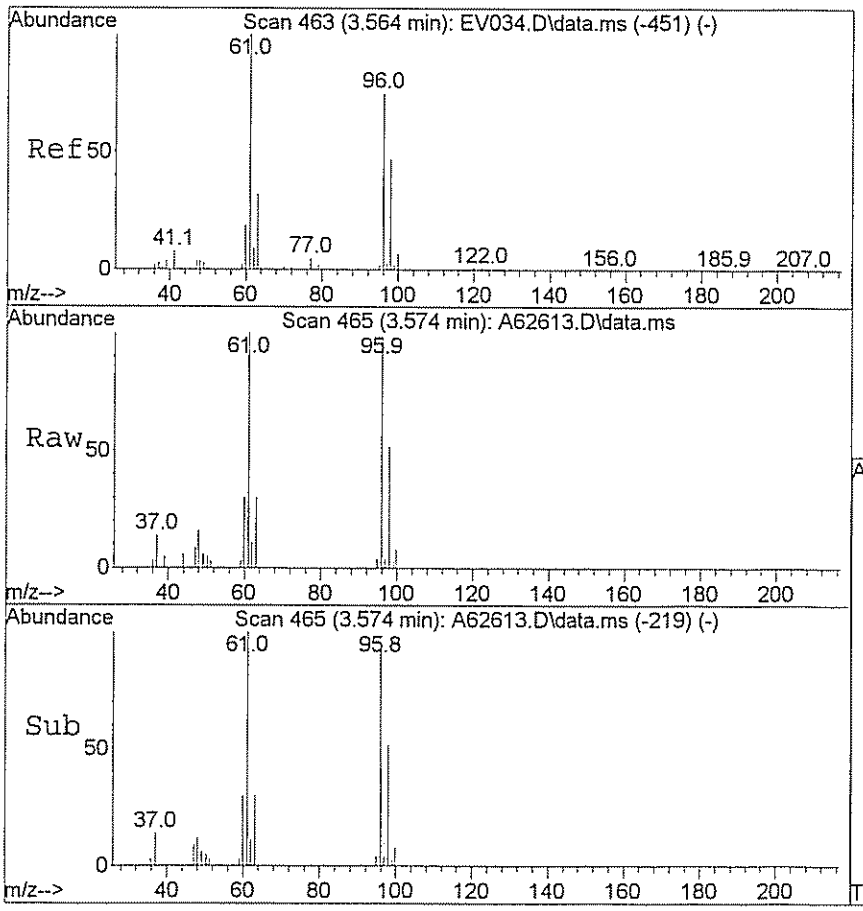


#28
Cis-1,2-dichloroethene
Concen: 5.58 ug/L
RT: 3.574 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62613.D
Acq: 27 Mar 2009 1:58

Tgt Ion: 96 Resp: 9388

Ion	Ratio	Lower	Upper
96	100		
61	117.2	115.0	172.6

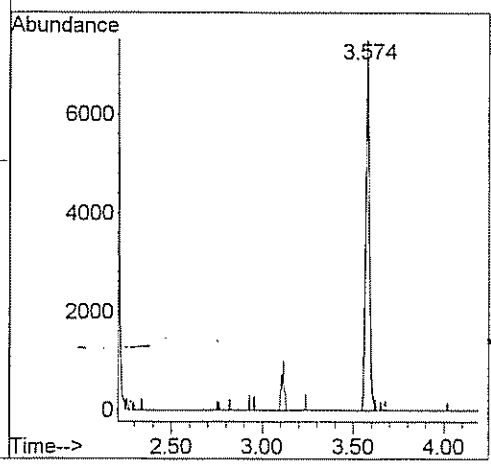


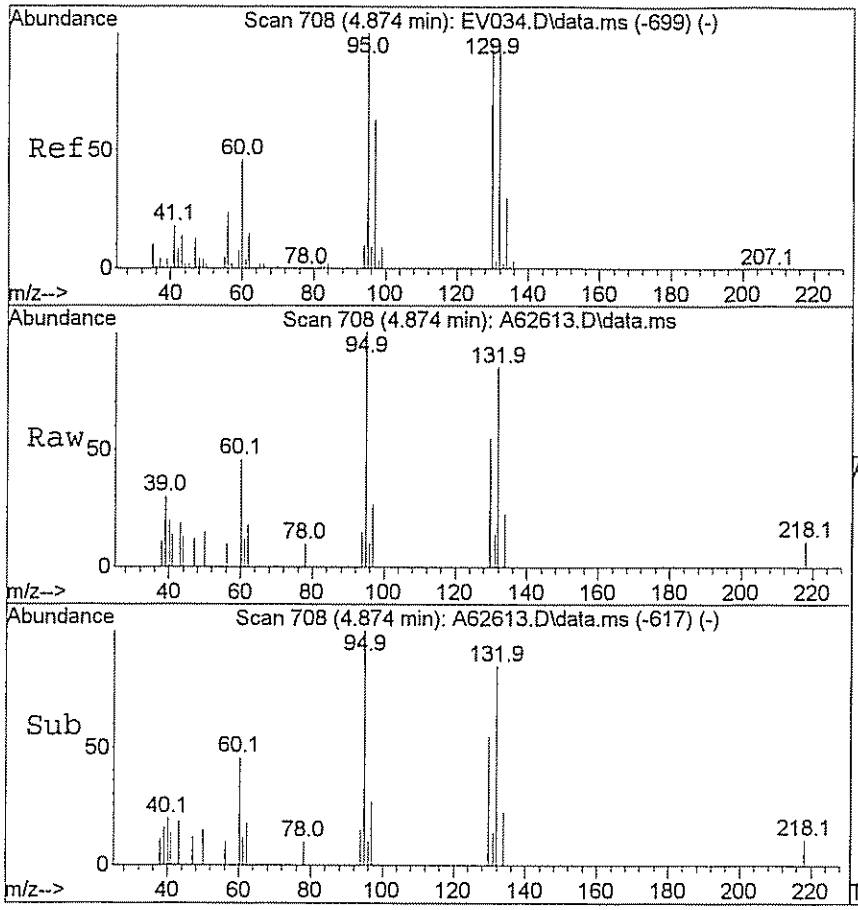


#29
1,2-dichloroethene(total)
Concen: 5.52 ug/L m
RT: 3.574 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62613.D
Acq: 27 Mar 2009 1:58

Tgt Ion: 96 Resp: 9838

Ion	Ratio	Lower	Upper
96	100		
61	0.6	115.0	172.6#

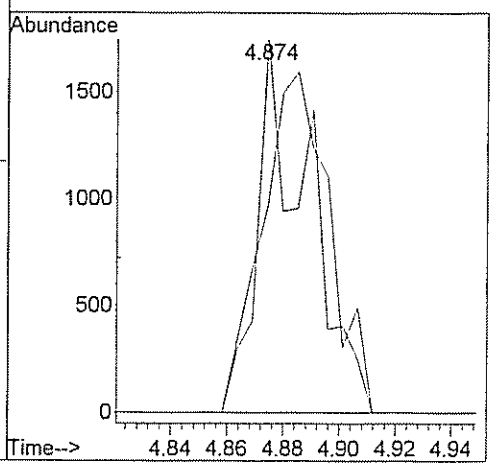


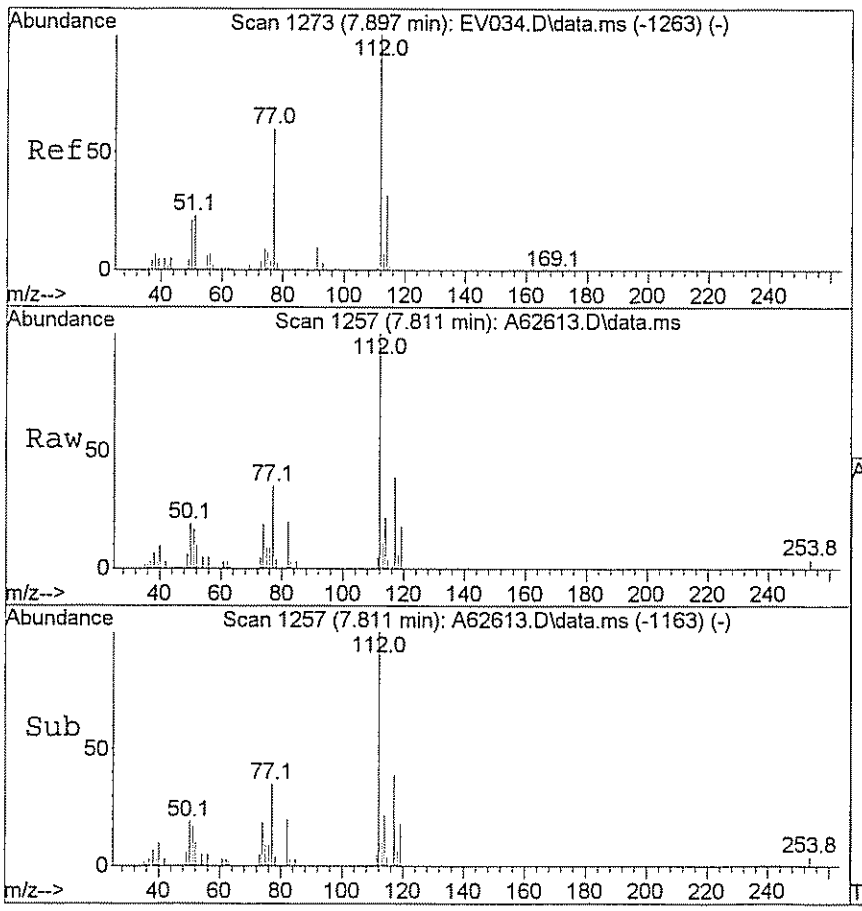


#47
Trichloroethene
Concen: 1.31 ug/L
RT: 4.874 min Scan# 708
Delta R.T. -0.011 min
Lab File: A62613.D
Acq: 27 Mar 2009 1:58

Tgt Ion: 95 Resp: 2192

Ion	Ratio	Lower	Upper
95	100		
130	120.3	79.7	119.5#

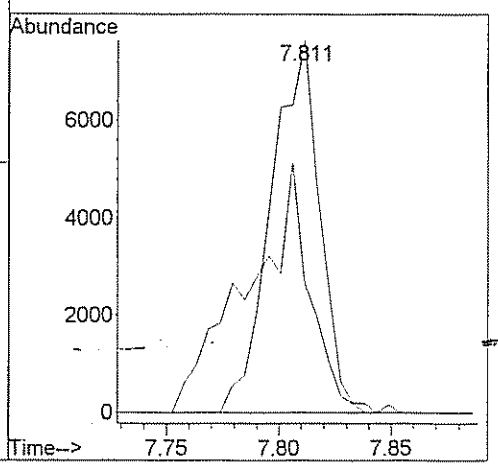




#67
Chlorobenzene
Concen: 2.01 ug/L
RT: 7.811 min Scan# 1257
Delta R.T. 0.005 min
Lab File: A62613.D
Acq: 27 Mar 2009 1:58

Tgt Ion:112 Resp: 11568

Ion	Ratio	Lower	Upper
112	100		
77	84.2	49.6	74.4#



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-022-1/3
Sample Volume :	5	Lab File ID :	A62615.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-022-1/3
Sample Volume :	5	Lab File ID :	A62615.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.1	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	2.4	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	18000	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-022-1/3
Sample Volume :	5	Lab File ID :	A62615.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	2100	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	17	
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62615.D
Acq On : 27 Mar 2009 2:38
Operator : SM
Sample : 903124-008
Misc : OUI-52GW58-0309,CH2M HILL,WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 30 12:52:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

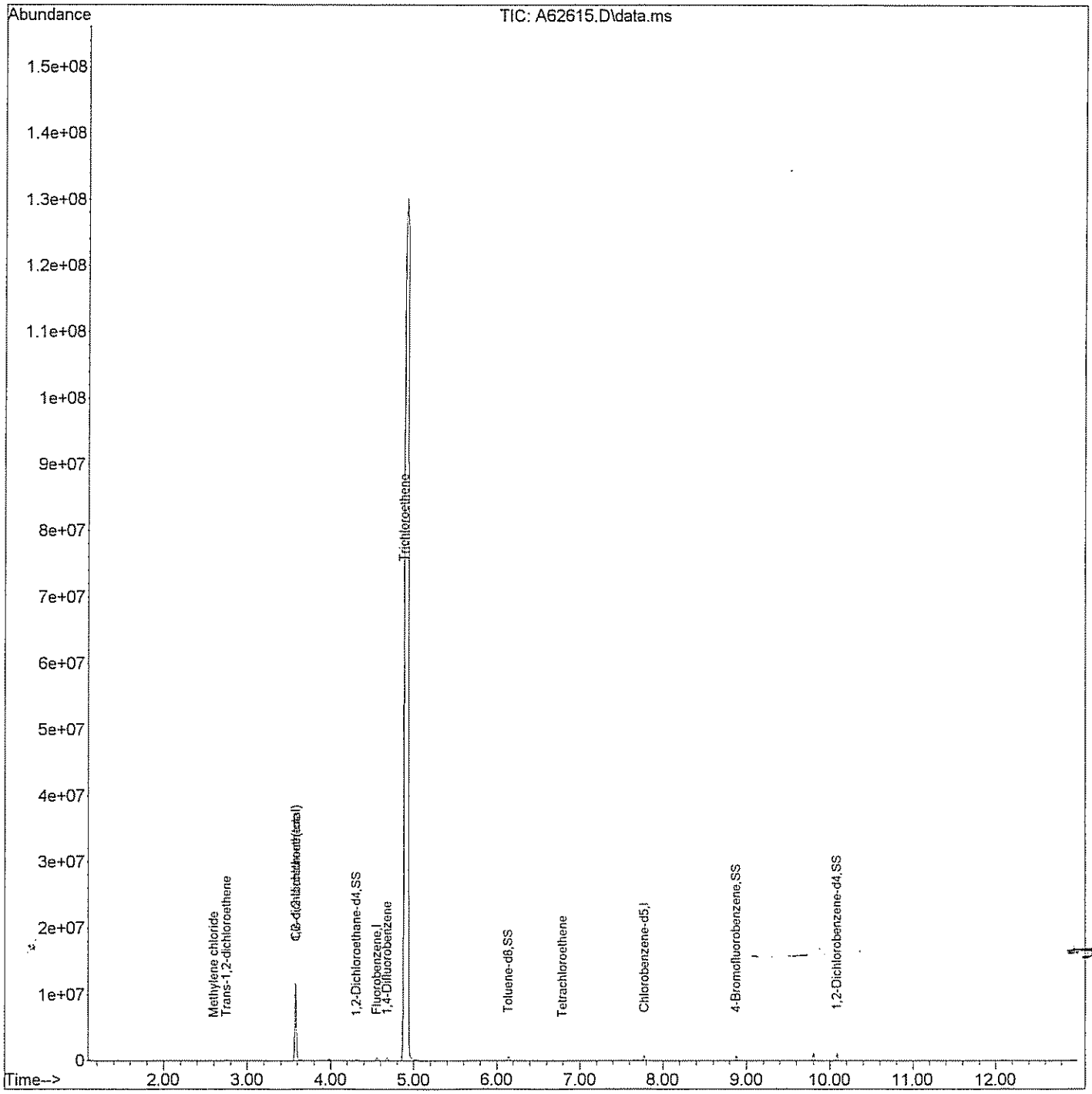
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	352406	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.682	114	333692	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	368860	50.00	ug/L	# 0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	95103	50.80	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.60%			
54) Toluene-d8	6.142	98	398131	51.49	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 102.98%			
76) 4-Bromofluorobenzene	8.881	95	161306	46.39	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 92.78%			
92) 1,2-Dichlorobenzene-d4	10.085	152	198336	58.16	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.32%			
Target Compounds						Qvalue
15) Methylene chloride	2.595	84	818	2.14	ug/L	98
16) Trans-1,2-dichloroethene	2.751	96	25228	17.16	ug/L	85
28) Cis-1,2-dichloroethene	3.580	96	3678282	2061.73	ug/L #	74
29) 1,2-dichloroethene(total)	3.580	96	3714340m	1966.77	ug/L	
47) Trichloroethene	4.885	95	32110667m	17704.62	ug/L	
62) Tetrachloroethene	6.795	166	5095	2.40	ug/L	95

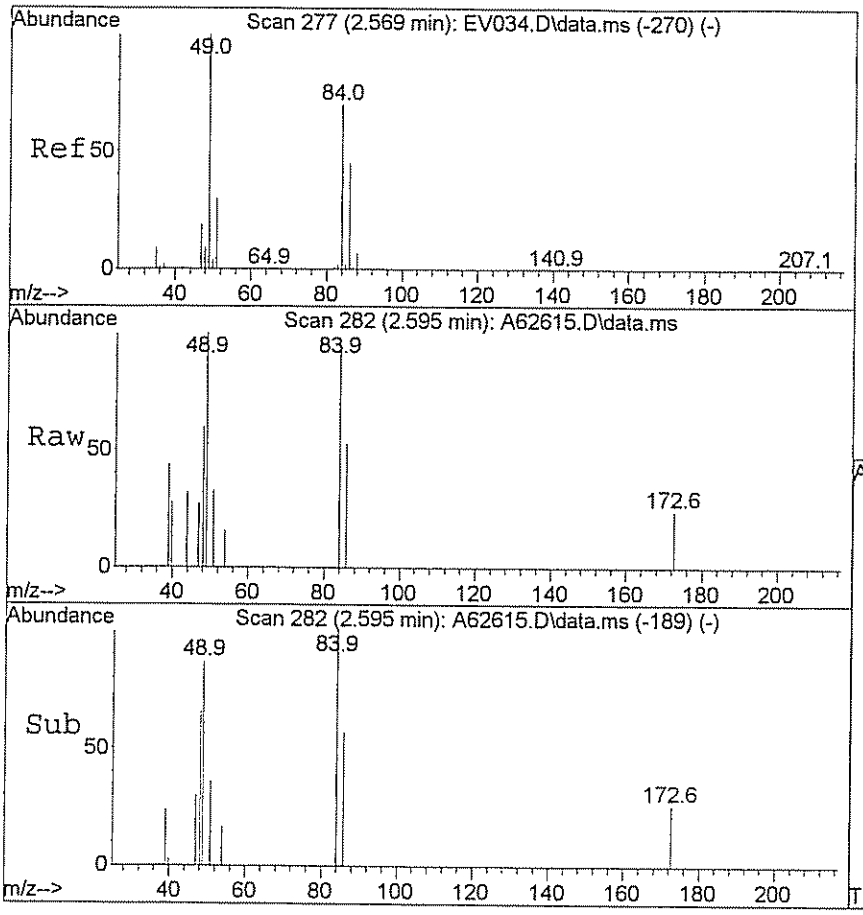
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62615.D
Acq On : 27 Mar 2009 2:38
Operator : SM
Sample : 903124-008
Misc : OUI-52GW58-0309,CH2M HILL,WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 30 12:52:26 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

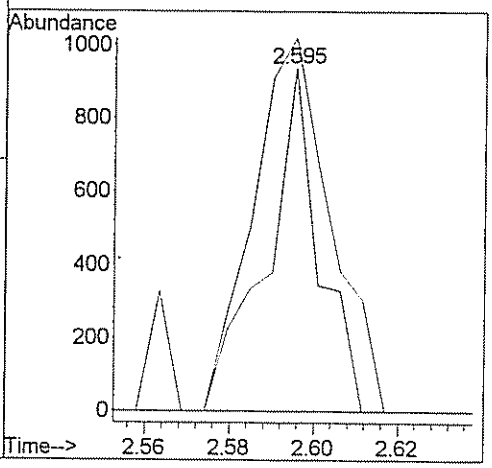


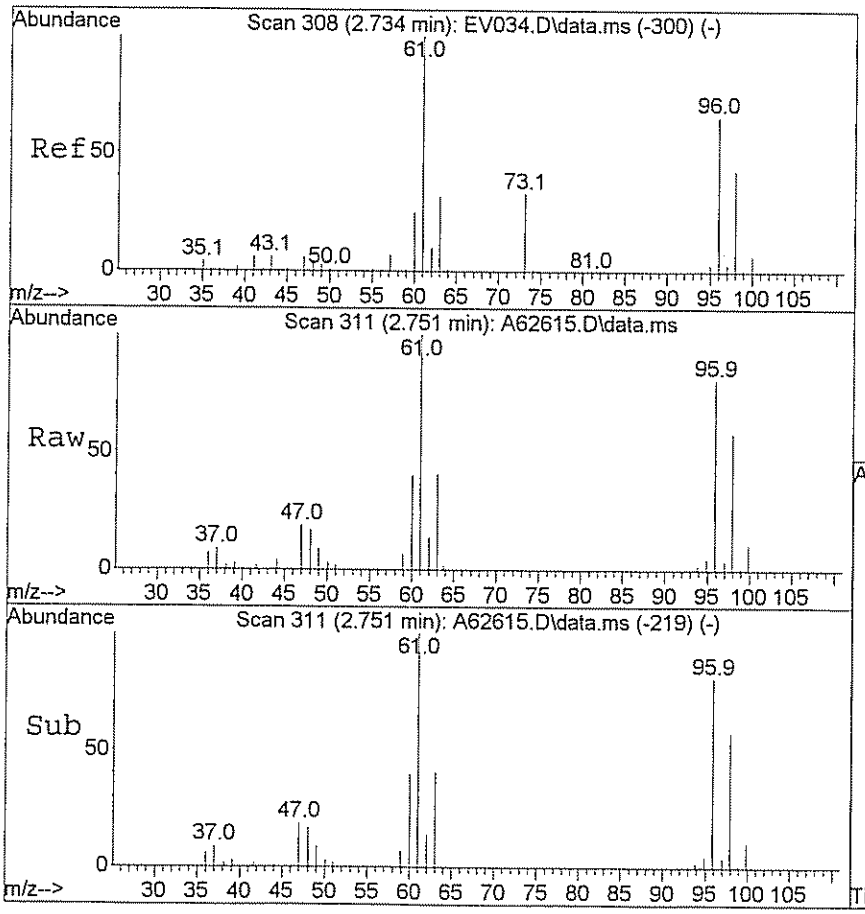


#15
Methylene chloride
Concen: 2.14 ug/L
RT: 2.595 min Scan# 282
Delta R.T. 0.000 min
Lab File: A62615.D
Acq: 27 Mar 2009 2:38

Tgt Ion: 84 Resp: 818

Ion	Ratio	Lower	Upper
84	100		
49	159.5	125.9	188.9

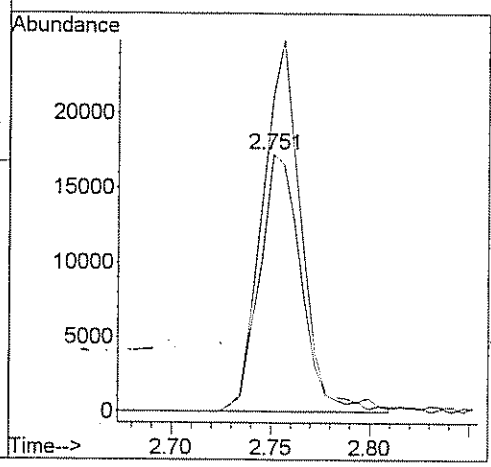


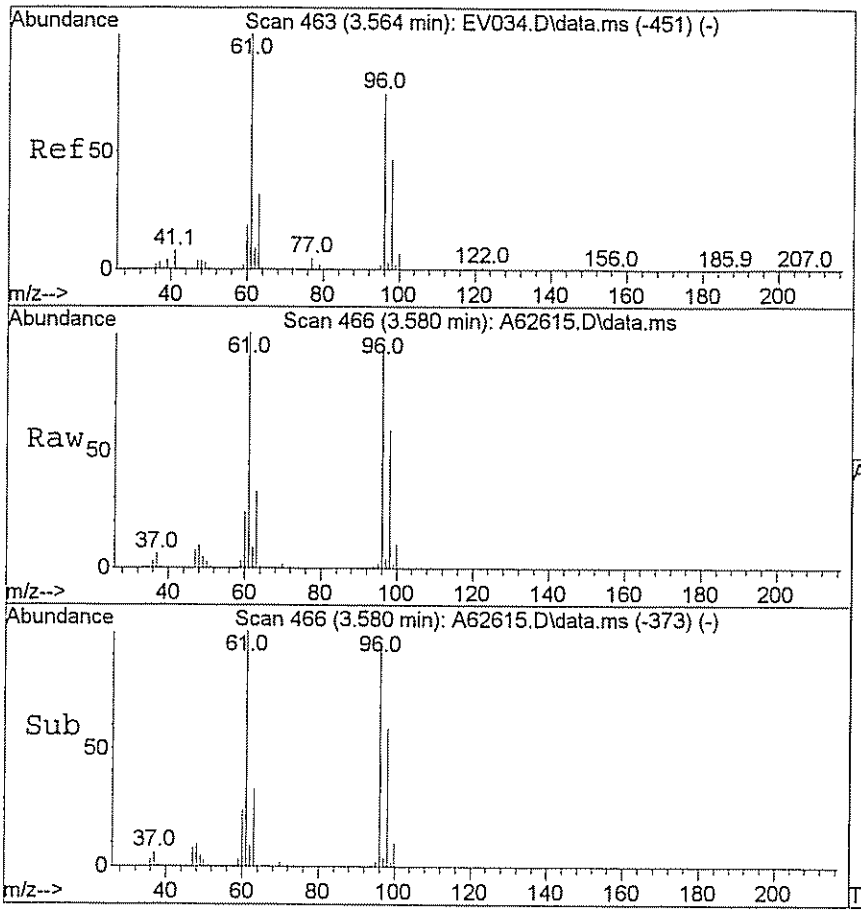


#16
Trans-1,2-dichloroethene
Concen: 17.16 ug/L
RT: 2.751 min Scan# 311
Delta R.T. -0.005 min
Lab File: A62615.D
Acq: 27 Mar 2009 2:38

Tgt Ion: 96 Resp: 25228

Ion	Ratio	Lower	Upper
96	100		
61	135.3	124.0	186.0

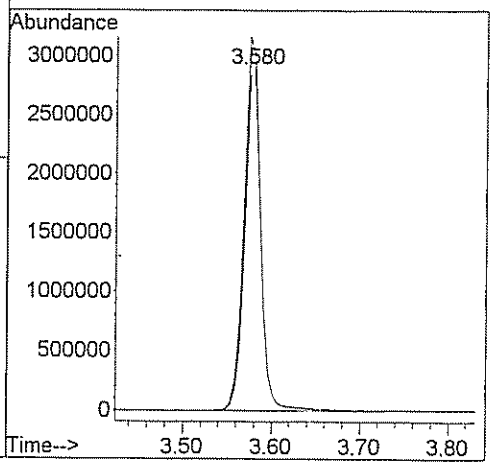


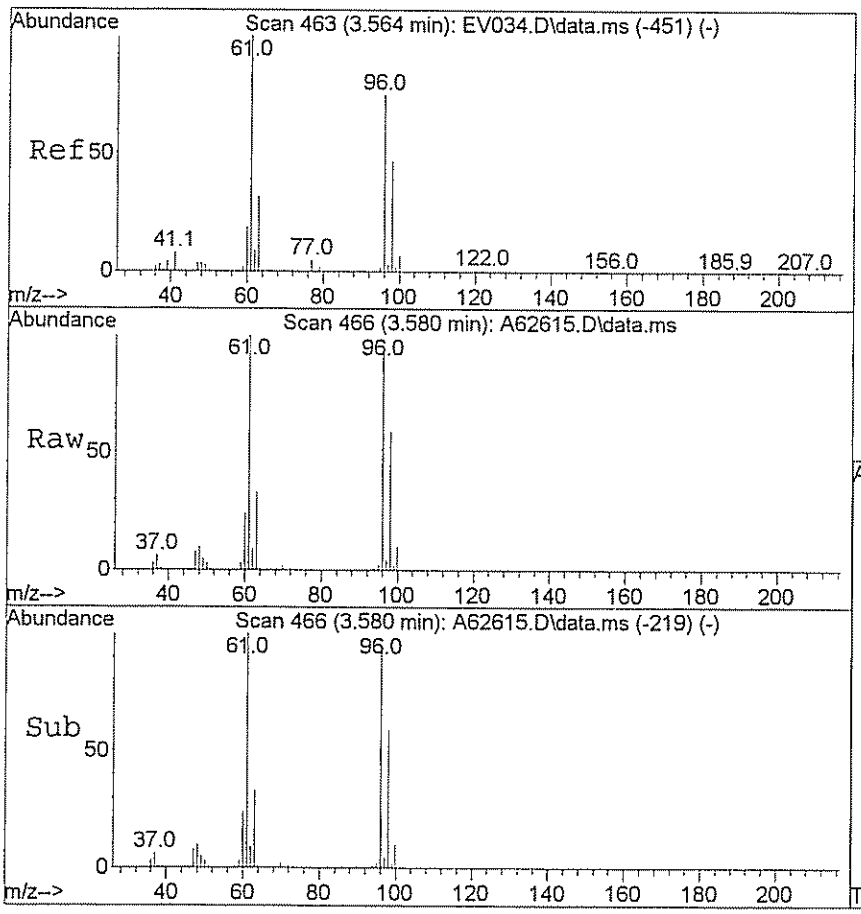


#28
Cis-1,2-dichloroethene
Concen: 2061.73 ug/L
RT: 3.580 min Scan# 466
Delta R.T. 0.000 min
Lab File: A62615.D
Acq: 27 Mar 2009 2:38

Tgt Ion: 96 Resp: 3678282

Ion	Ratio	Lower	Upper
96	100		
61	111.5	115.0	172.6#

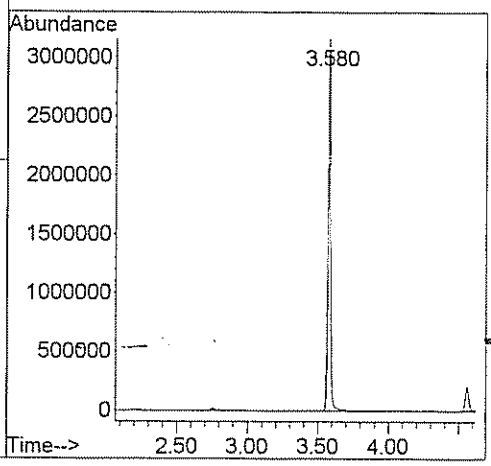


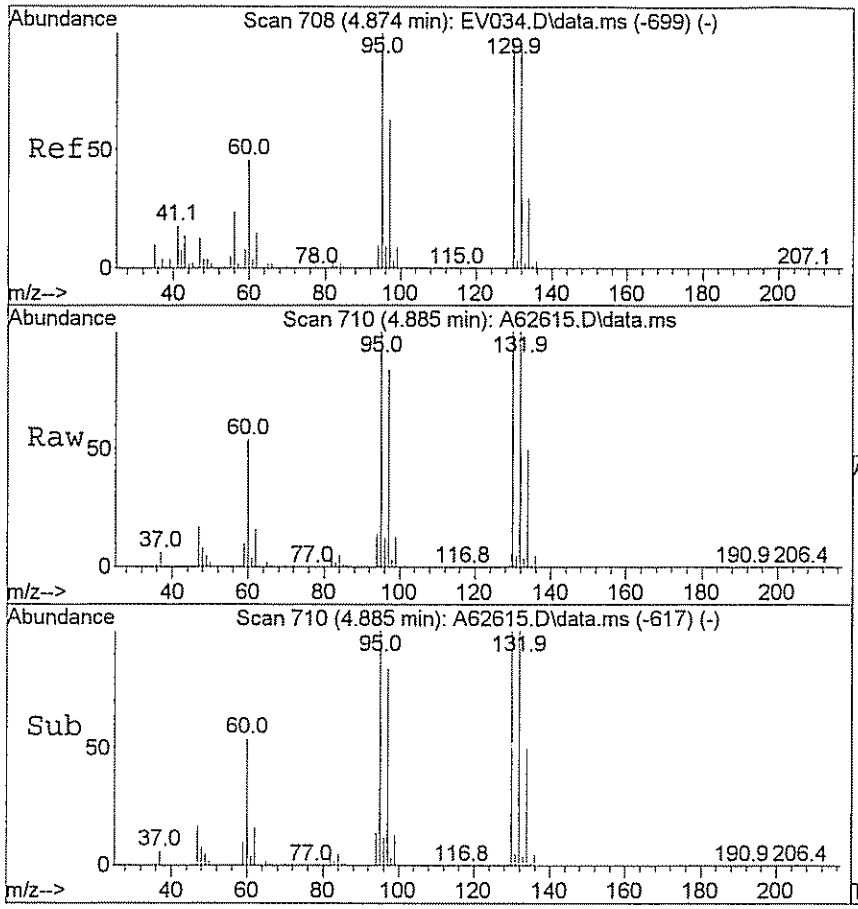


#29
1,2-dichloroethene(total)
Concen: 1966.77 ug/L m
RT: 3.580 min Scan# 466
Delta R.T. 0.824 min
Lab File: A62615.D
Acq: 27 Mar 2009 2:38

Tgt Ion: 96 Resp: 3714340

Ion	Ratio	Lower	Upper
96	100		
61	0.9	115.0	172.6#

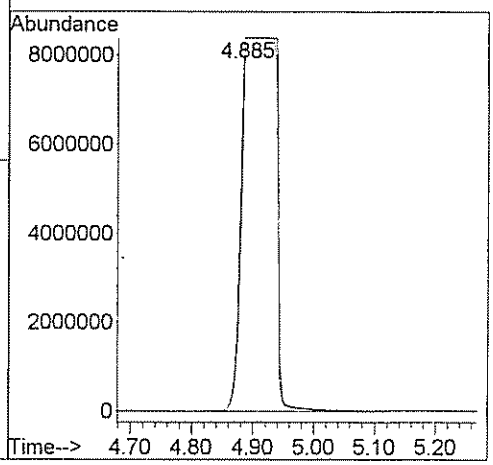


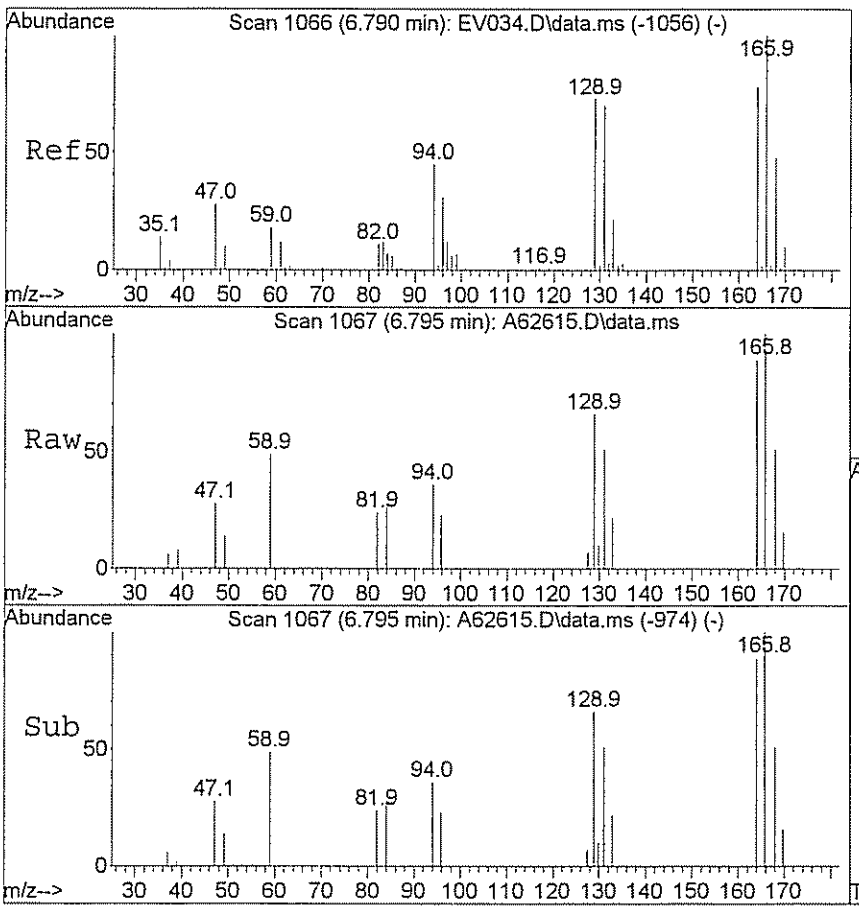


#47
Trichloroethene
Concen: 17704.62 ug/L m
RT: 4.885 min Scan# 710
Delta R.T. 0.000 min
Lab File: A62615.D
Acq: 27 Mar 2009 2:38

Tgt Ion: 95 Resp:32110667

Ion	Ratio	Lower	Upper
95	100		
130	0.0	79.7	119.5#

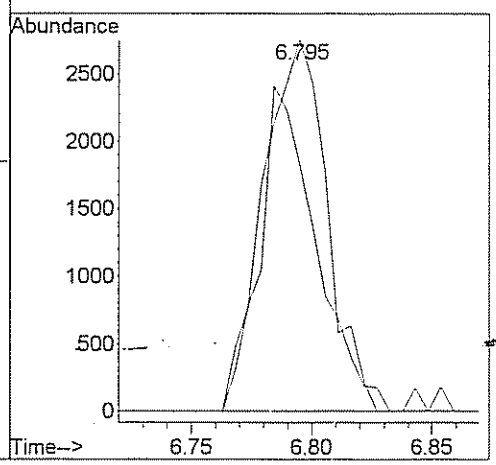




#62
Tetrachloroethene
Concen: 2.40 ug/L
RT: 6.795 min Scan# 1067
Delta R.T. 0.000 min
Lab File: A62615.D
Acq: 27 Mar 2009 2:38

Tgt Ion:166 Resp: 5095

Ion	Ratio	Lower	Upper
166	100		
129	77.4	58.6	88.0



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-023-2/3
Sample Volume :	.01	Lab File ID :	A62639.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
75-34-3	1,1-Dichloroethane	500	U
75-35-4	1,1-Dichloroethene	500	U
563-58-6	1,1-Dichloropropene	500	U
87-61-6	1,2,3-Trichlorobenzene	500	U
96-18-4	1,2,3-Trichloropropane	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
95-63-6	1,2,4-Trimethylbenzene	500	U
96-12-8	1,2-Dibromo-3-Chloropropane	1000	U
95-50-1	1,2-Dichlorobenzene	500	U
107-06-2	1,2-Dichloroethane	500	U
78-87-5	1,2-Dichloropropane	500	U
108-67-8	1,3,5-trimethylbenzene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
142-28-9	1,3-Dichloropropane	500	U
106-46-7	1,4-Dichlorobenzene	500	U
594-20-7	2,2-Dichloropropane	500	U
78-93-3	2-Butanone	2500	U
95-49-8	2-Chlorotoluene	500	U
591-78-6	2-Hexanone	2500	U
106-43-4	4-Chlorotoluene	500	U
99-87-6	4-Isopropyltoluene	500	U
108-10-1	4-Methyl-2-Pentanone	2500	U
67-64-1	Acetone	2500	U
71-43-2	Benzene	500	U
108-86-1	Bromobenzene	500	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-023-2/3
Sample Volume :	.01	Lab File ID :	A62639.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	500	U
75-27-4	Bromodichloromethane	500	U
75-25-2	Bromoform	500	U
74-83-9	Bromomethane	500	U
75-15-0	Carbon Disulfide	500	U
56-23-5	Carbon Tetrachloride	500	U
108-90-7	Chlorobenzene	500	U
75-00-3	Chloroethane	500	U
67-66-3	Chloroform	500	U
74-87-3	Chloromethane	500	U
110-82-7	Cyclohexane	500	U
124-48-1	Dibromochloromethane	500	U
74-95-3	Dibromomethane	500	U
75-71-8	Dichlorodifluoromethane	500	U
100-41-4	Ethylbenzene	500	U
106-93-4	Ethylene DiBromide	500	U
76-13-1	Freon 113	500	U
87-68-3	Hexachlorobutadiene	500	U
98-82-8	Isopropylbenzene	500	U
79-20-9	Methyl Acetate	500	U
108-87-2	Methylcyclohexane	500	U
75-09-2	Methylene Chloride	500	U
91-20-3	Naphthalene	500	U
135-98-8	Sec-Butylbenzene	500	U
100-42-5	Styrene	500	U
127-18-4	Tetrachloroethylene	500	U
108-88-3	Toluene	500	U
79-01-6	Trichloroethene	9300	
75-69-4	Trichlorofluoromethane	500	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-023-2/3
Sample Volume :	.01	Lab File ID :	A62639.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	500
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	500	U
75-01-4	Vinyl Chloride	500	U
156-59-2	cis-1,2-Dichloroethene	980	
10061-01-5	cis-1,3-Dichloropropene	500	U
136777-61-2	m,p-Xylene	500	U
104-51-8	n-Butylbenzene	500	U
103-65-1	n-Propylbenzene	500	U
95-47-6	o-Xylene	500	U
98-06-6	tert-Butylbenzene	500	U
1634-04-4	tert-butyl methyl ether	500	U
156-60-5	trans-1,2-dichloroethene	500	U
10061-02-6	trans-1,3-dichloropropene	500	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62639.D
Acq On : 27 Mar 2009 12:30
Operator : SM
Sample : 903124-008
Misc : OUI-52GW58-0309,CH2M HILL,500X
ALS Vial : 6 Sample Multiplier: 1

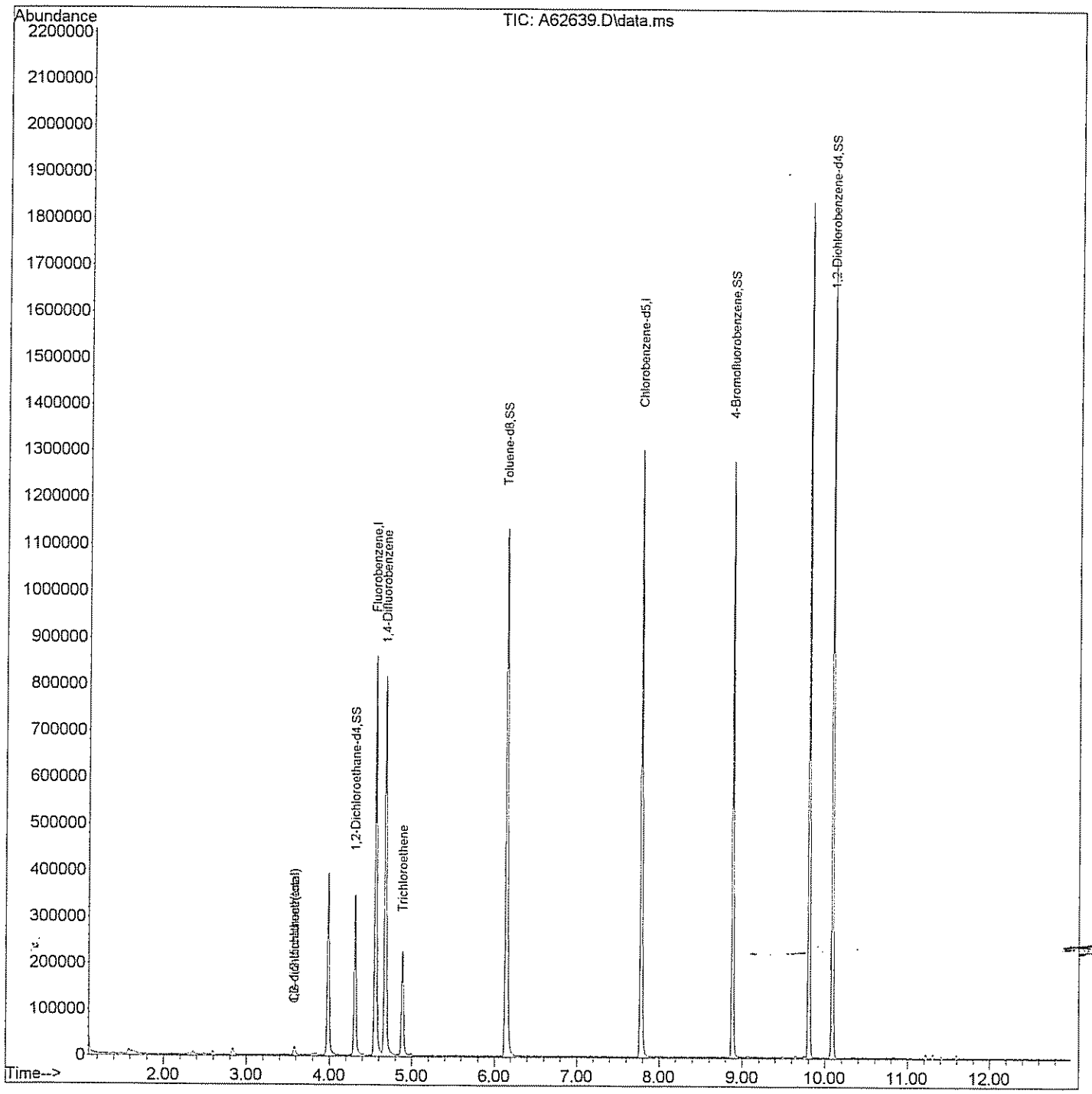
Quant Time: Mar 30 14:17:07 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

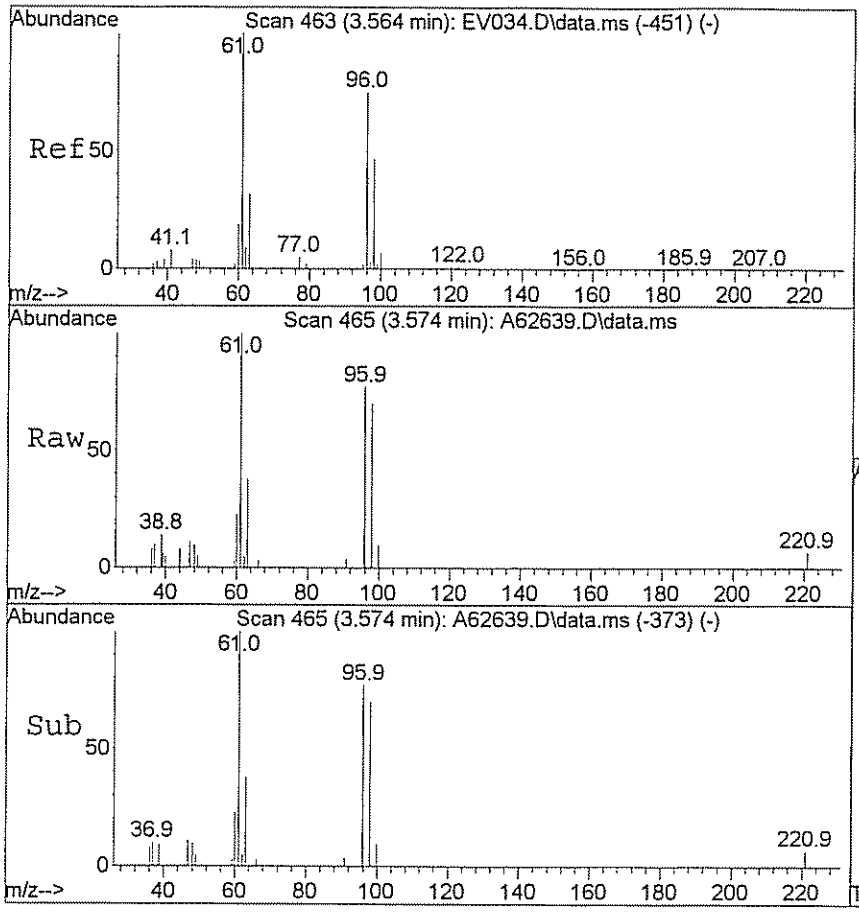
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.559	96	653108	50.00	ug/L	0.00
41) 1,4-Difluorobenzene		4.682	114	603193	50.00	ug/L	0.00
59) Chlorobenzene-d5		7.779	117	611604	50.00	ug/L	0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4		4.307	65	179287	51.67	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery = 103.34%			
54) Toluene-d8		6.142	98	691726	49.49	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery = 98.98%			
76) 4-Bromofluorobenzene		8.881	95	276703	48.00	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery = 96.00%			
92) 1,2-Dichlorobenzene-d4		10.085	152	300502	53.15	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery = 106.30%			
Target Compounds							Qvalue
28) Cis-1,2-dichloroethene		3.574	96	6501	1.97	ug/L	86
29) 1,2-dichloroethene(total)		3.574	96	6966m	1.99	ug/L	
47) Trichloroethene		4.890	95	61051	18.62	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62639.D
Acq On : 27 Mar 2009 12:30
Operator : SM
Sample : 903124-008
Misc : OUI-52GW58-0309,CH2M HILL,500X
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 14:17:07 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

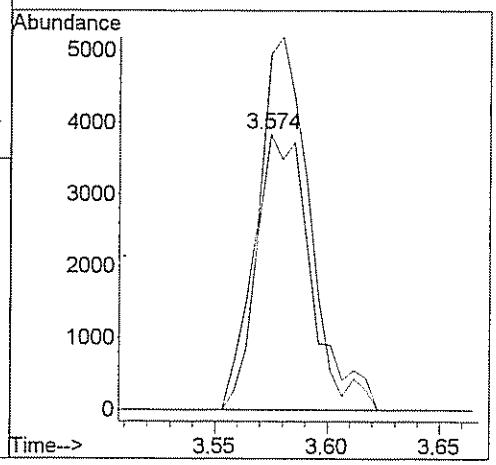


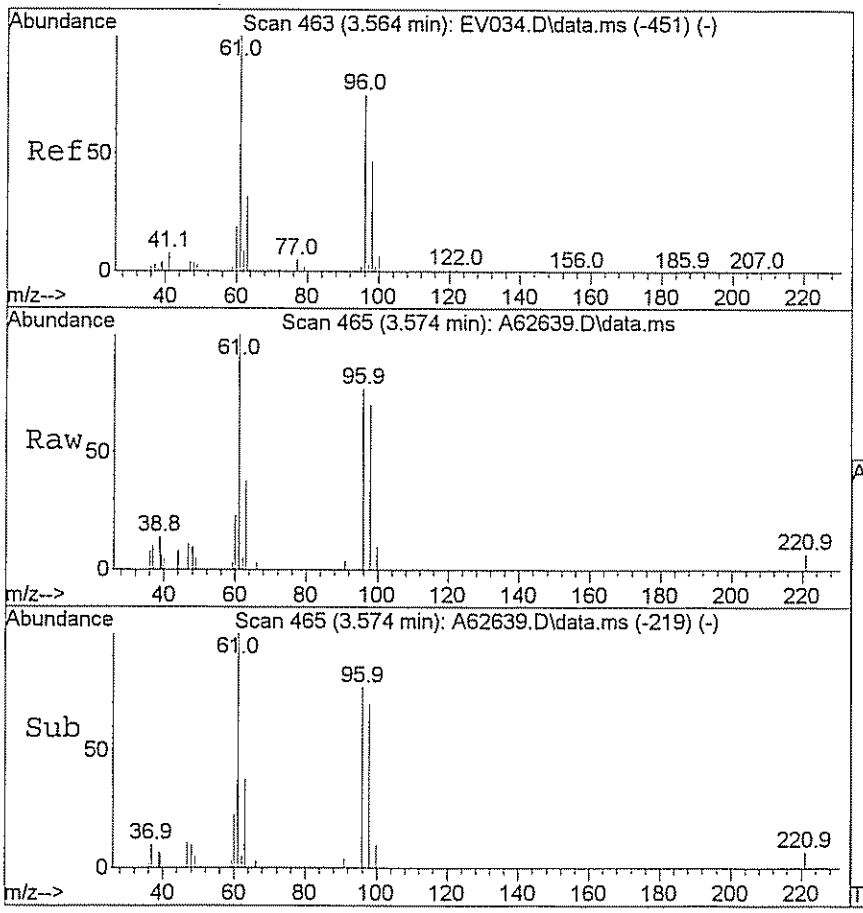


#28
Cis-1,2-dichloroethene
Concen: 1.97 ug/L
RT: 3.574 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62639.D
Acq: 27 Mar 2009 12:30

Tgt Ion: 96 Resp: 6501

Ion	Ratio	Lower	Upper
96	100		
61	126.3	115.0	172.6

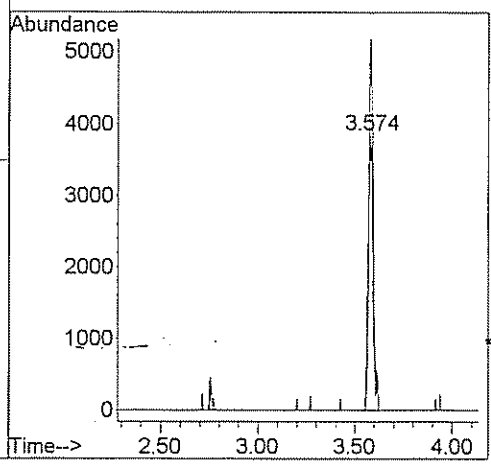


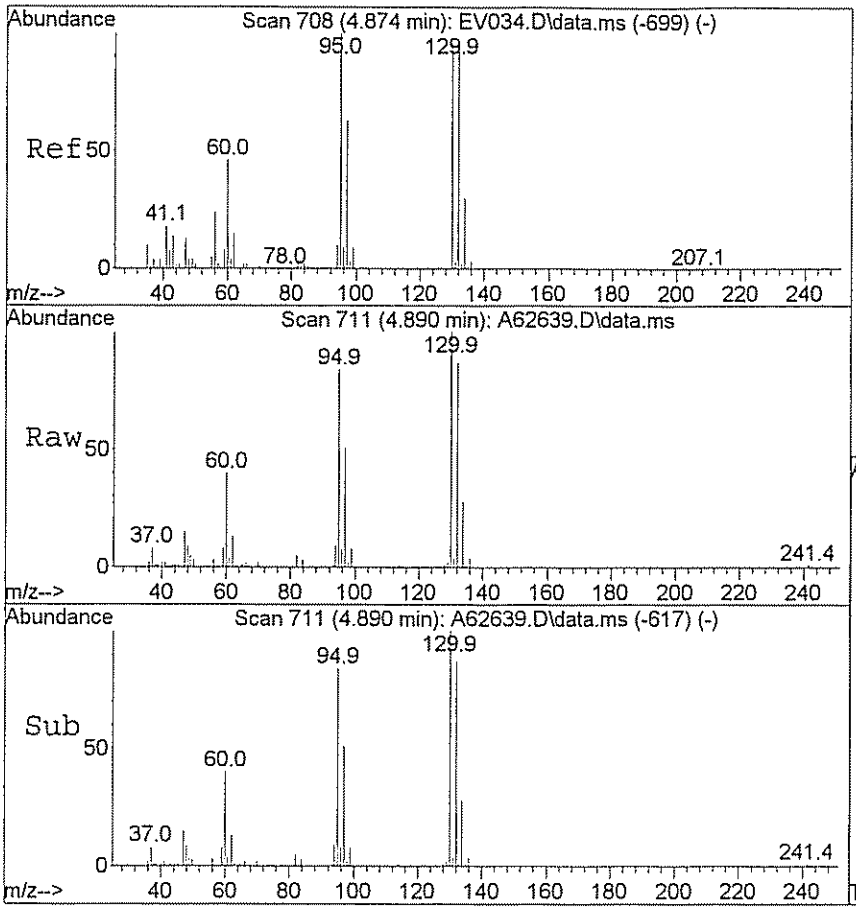


#29
1,2-dichloroethene(total)
Concen: 1.99 ug/L m
RT: 3.574 min Scan# 465
Delta R.T. 0.818 min
Lab File: A62639.D
Acq: 27 Mar 2009 12:30

Tgt Ion: 96 Resp: 6966

Ion	Ratio	Lower	Upper
96	100		
61	3.0	115.0	172.6#

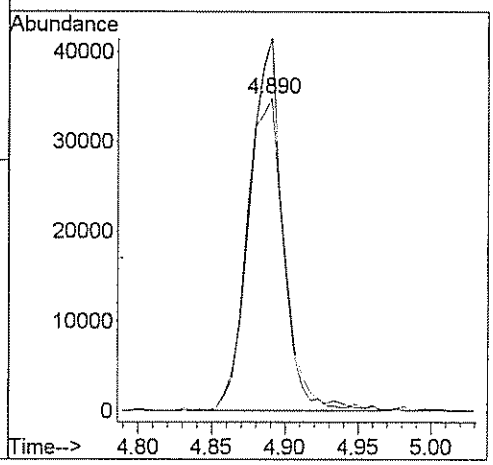




#47
Trichloroethene
Concen: 18.62 ug/L
RT: 4.890 min Scan# 711
Delta R.T. 0.005 min
Lab File: A62639.D
Acq: 27 Mar 2009 12:30

Tgt Ion: 95 Resp: 61051

Ion	Ratio	Lower	Upper
95	100		
130	109.9	79.7	119.5



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-025-1/3
Sample Volume :	5	Lab File ID :	A62617.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	4.8	J
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-025-1/3
Sample Volume :	5	Lab File ID :	A62617.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	8.3	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-025-1/3
Sample Volume :	5	Lab File ID :	A62617.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62617.D
Acq On : 27 Mar 2009 3:19
Operator : SM
Sample : 903124-009
Misc : OUI-52GW55-0309,CH2M HILL,WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 30 12:50:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

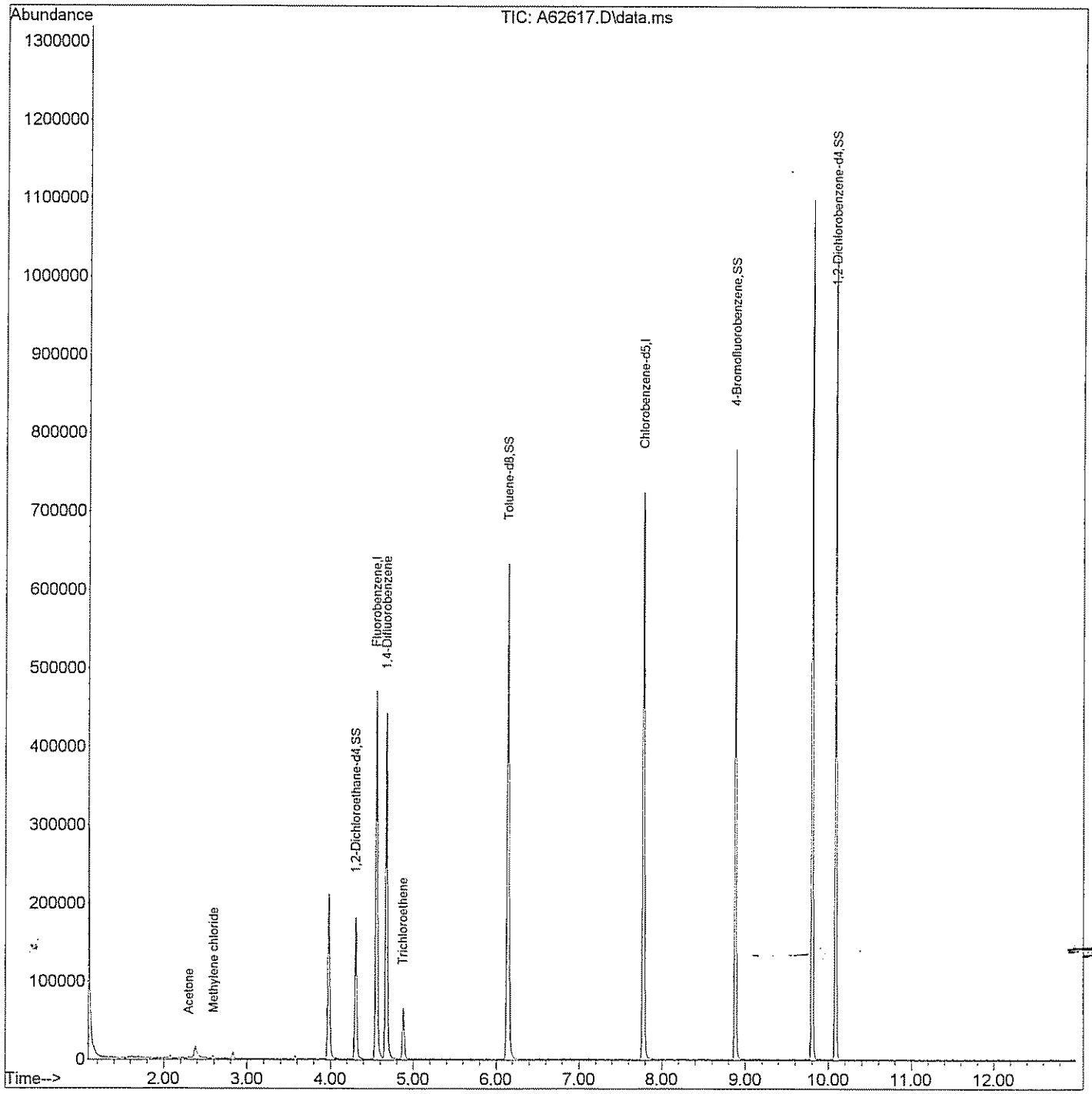
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	351874	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	322902	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	363174	50.00	ug/L	# 0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	91938	49.18	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.36%			
54) Toluene-d8	6.142	98	378219	50.55	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 101.10%			
76) 4-Bromofluorobenzene	8.881	95	155098	45.31	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 90.62%			
92) 1,2-Dichlorobenzene-d4	10.085	152	186856	55.65	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 111.30%			
Target Compounds						Qvalue
15) Methylene chloride	2.595	84	933	2.21	ug/L	97
19) Acetone	2.301	43	2280	4.78	ug/L #	50
47) Trichloroethene	4.880	95	14532	8.28	ug/L	81

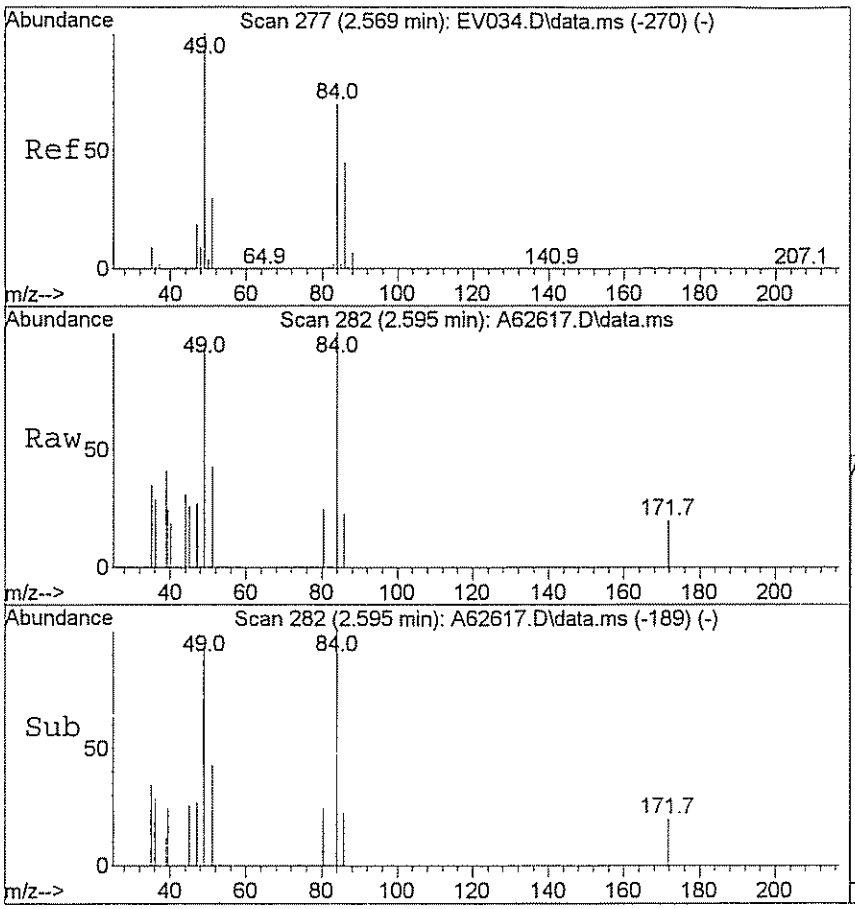
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62617.D
Acq On : 27 Mar 2009 3:19
Operator : SM
Sample : 903124-009
Misc : OUI-52GW55-0309,CH2M HILL,WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 30 12:50:18 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

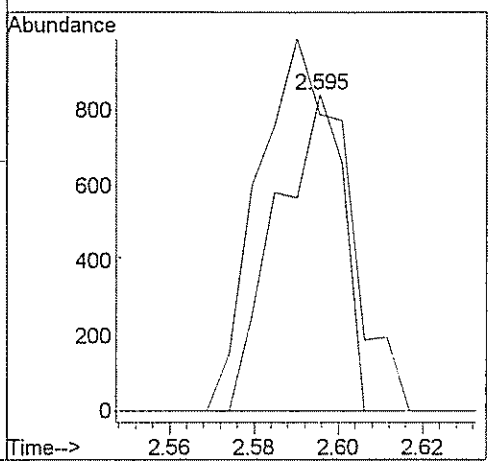


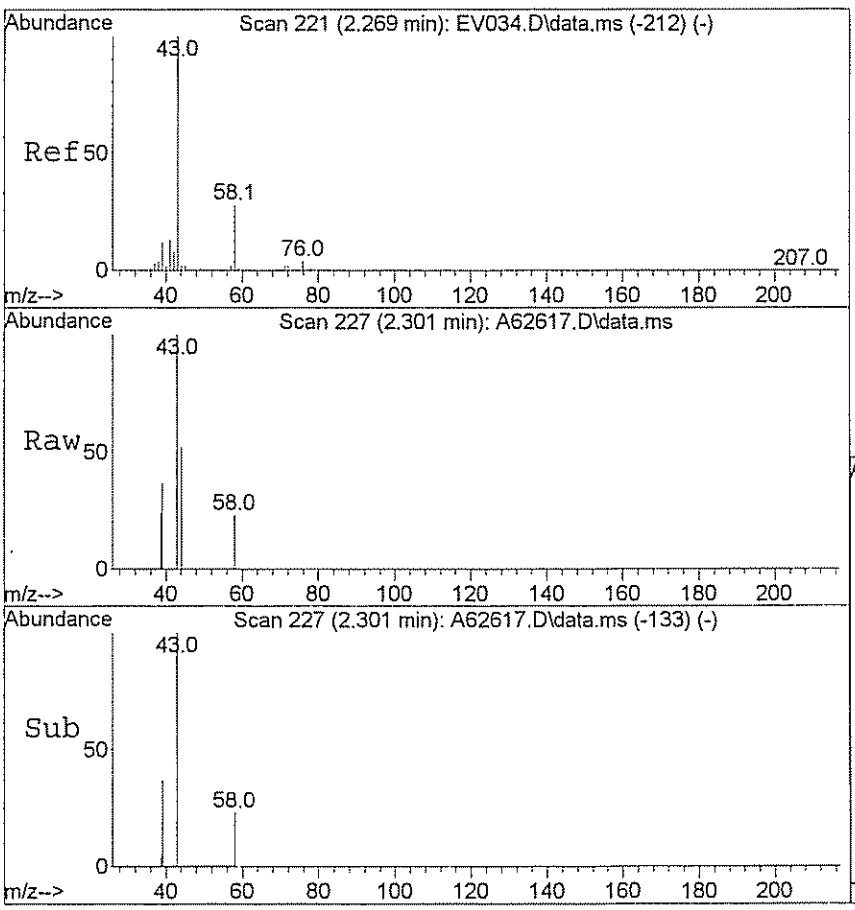


#15
Methylene chloride
Concen: 2.21 ug/L
RT: 2.595 min Scan# 282
Delta R.T. 0.000 min
Lab File: A62617.D
Acq: 27 Mar 2009 3:19

Tgt Ion: 84 Resp: 933

Ion	Ratio	Lower	Upper
84	100		
49	153.2	125.9	188.9

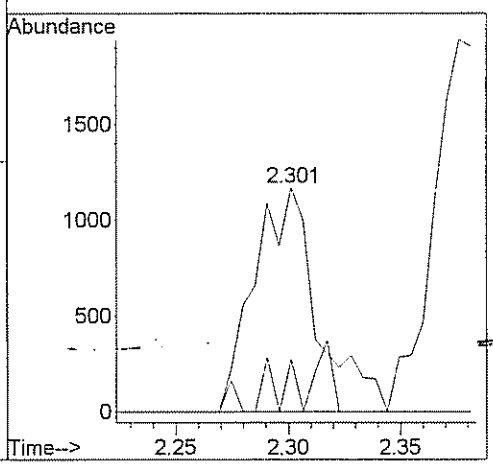


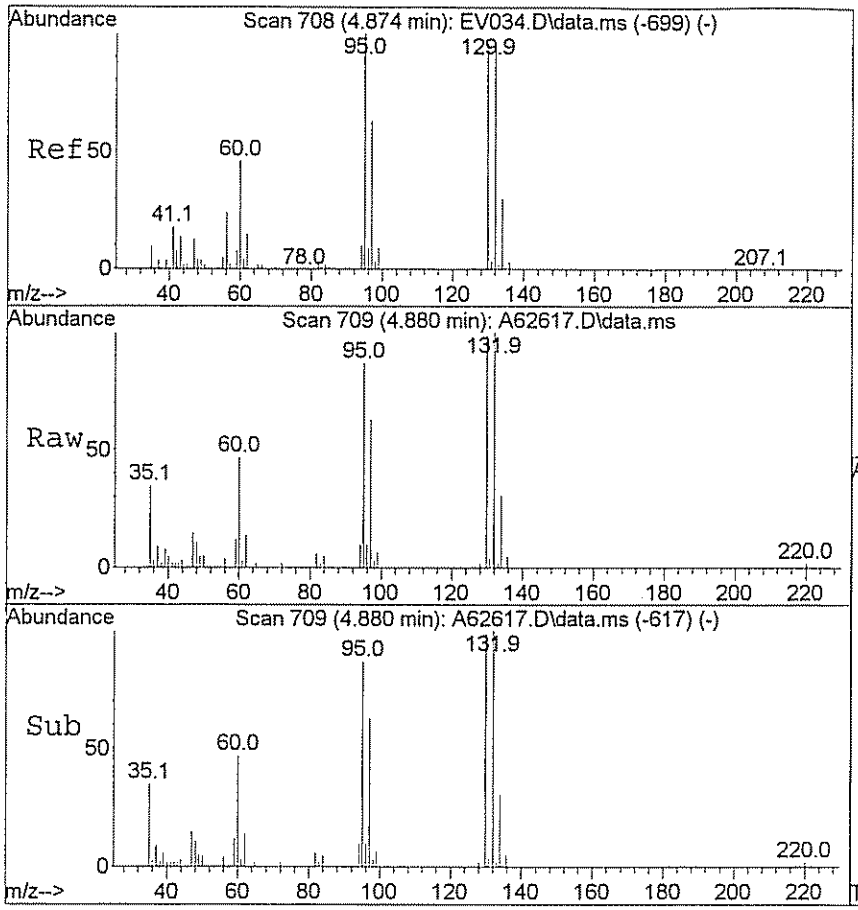


#19
Acetone
Concen: 4.78 ug/L
RT: 2.301 min Scan# 227
Delta R.T. 0.006 min
Lab File: A62617.D
Acq: 27 Mar 2009 3:19

Tgt Ion: 43 Resp: 2280

Ion	Ratio	Lower	Upper
43	100		
58	3.9	25.2	37.8#

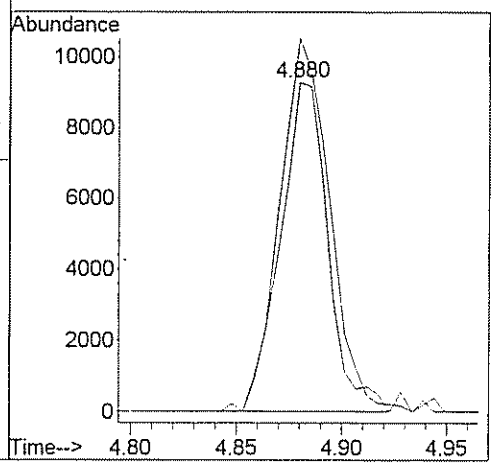




#47
Trichloroethene
Concen: 8.28 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62617.D
Acq: 27 Mar 2009 3:19

Tgt Ion: 95 Resp: 14532

Ion	Ratio	Lower	Upper
95	100		
130	119.0	79.7	119.5



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-028-1/3
Sample Volume :	5	Lab File ID :	A62619.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	8.0	
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-028-1/3
Sample Volume :	5	Lab File ID :	A62619.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	4.9	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-028-1/3
Sample Volume :	5	Lab File ID :	A62619.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.8	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62619.D
Acq On : 27 Mar 2009 3:59
Operator : SM
Sample : 903124-010
Misc : OUI-52GW57-0309,CH2M HILL,WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 30 12:46:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

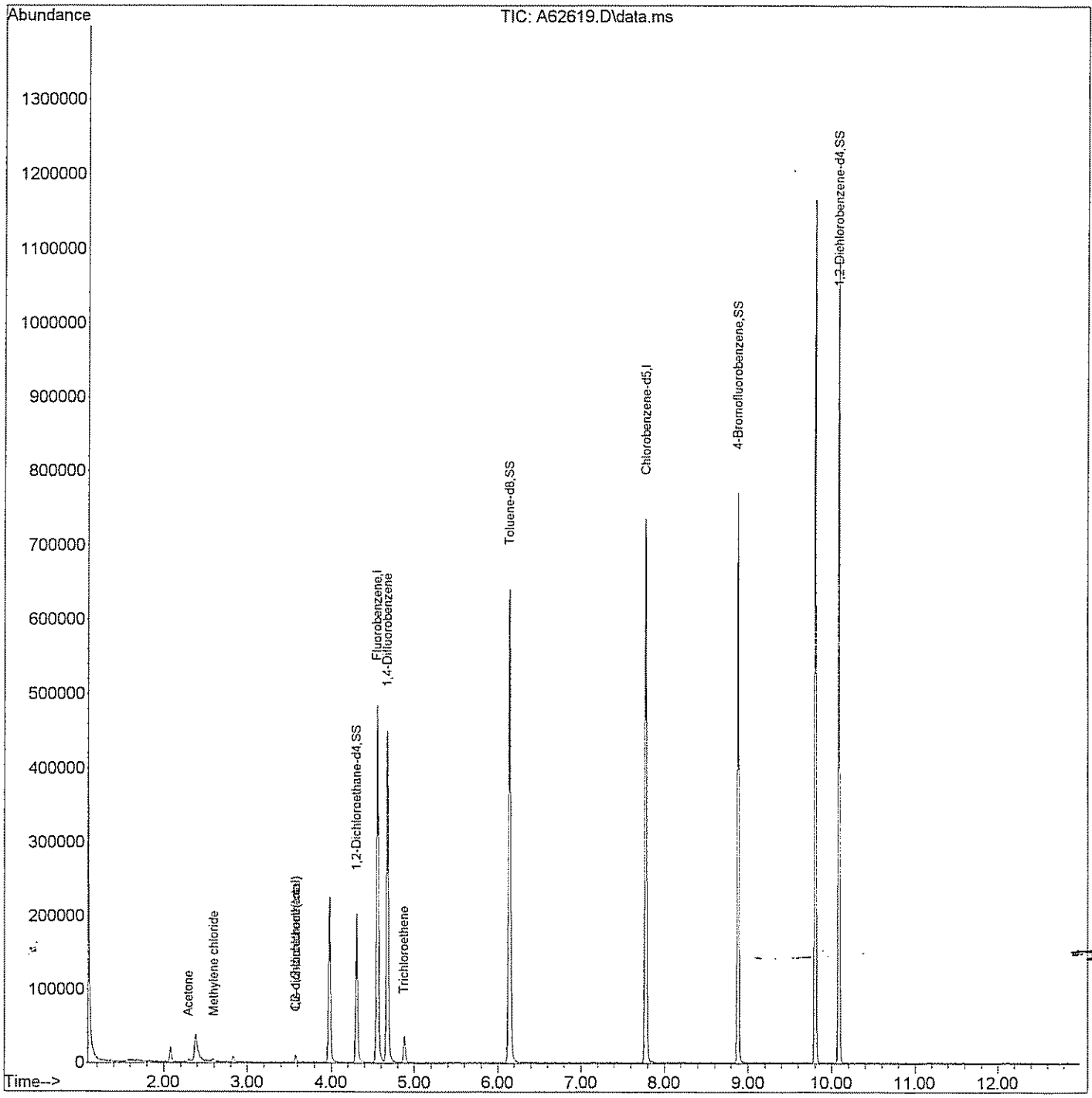
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	357697	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	334210	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	364832	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	94531	49.75	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.50%			
54) Toluene-d8	6.142	98	388471	50.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.32%			
76) 4-Bromofluorobenzene	8.881	95	159880	46.49	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 92.98%			
92) 1,2-Dichlorobenzene-d4	10.085	152	196863	58.37	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.74%			
Target Compounds						Qvalue
15) Methylene chloride	2.595	84	999	2.24	ug/L	83
19) Acetone	2.296	43	4283	7.96	ug/L #	87
28) Cis-1,2-dichloroethene	3.574	96	3326	1.84	ug/L #	65
29) 1,2-dichloroethene(total)	3.574	96	3656m	1.91	ug/L	
47) Trichloroethene	4.880	95	8911	4.91	ug/L	86

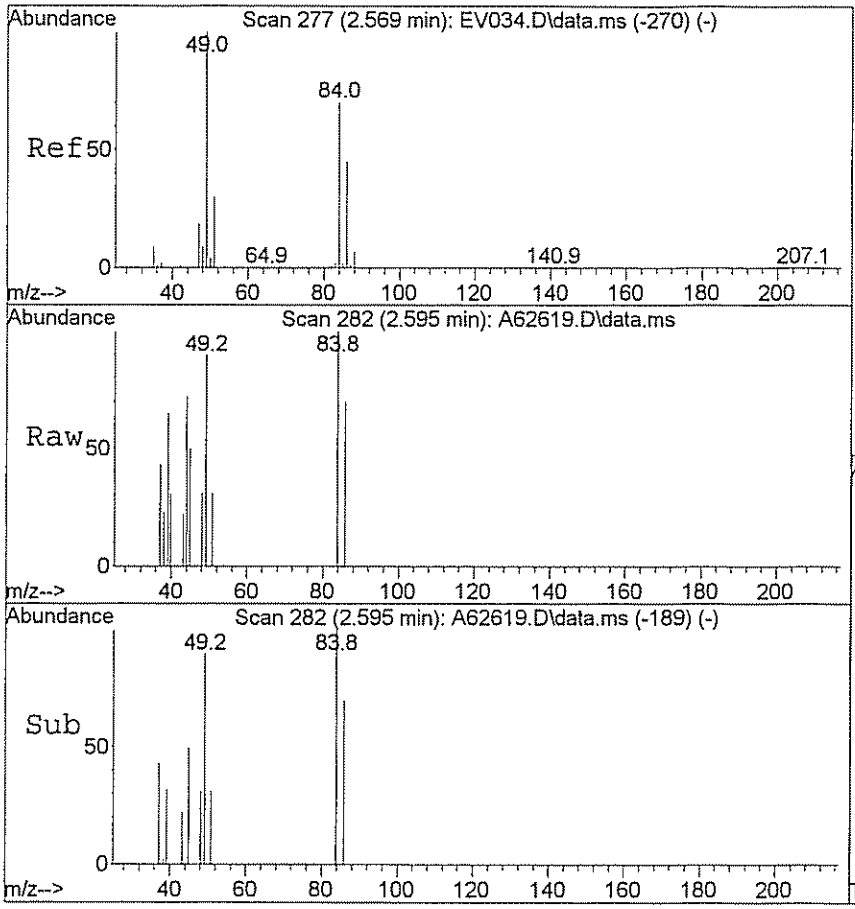
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62619.D
Acq On : 27 Mar 2009 3:59
Operator : SM
Sample : 903124-010
Misc : OUI-52GW57-0309,CH2M HILL,WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 30 12:46:01 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

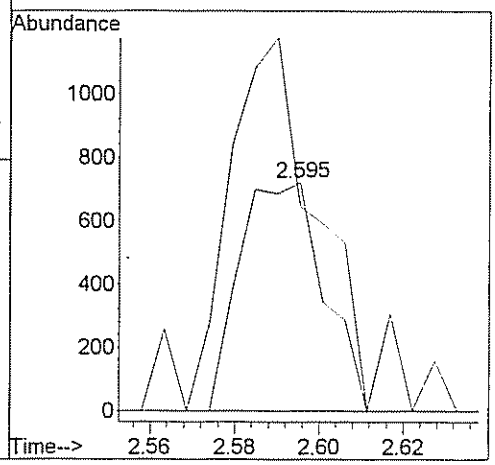


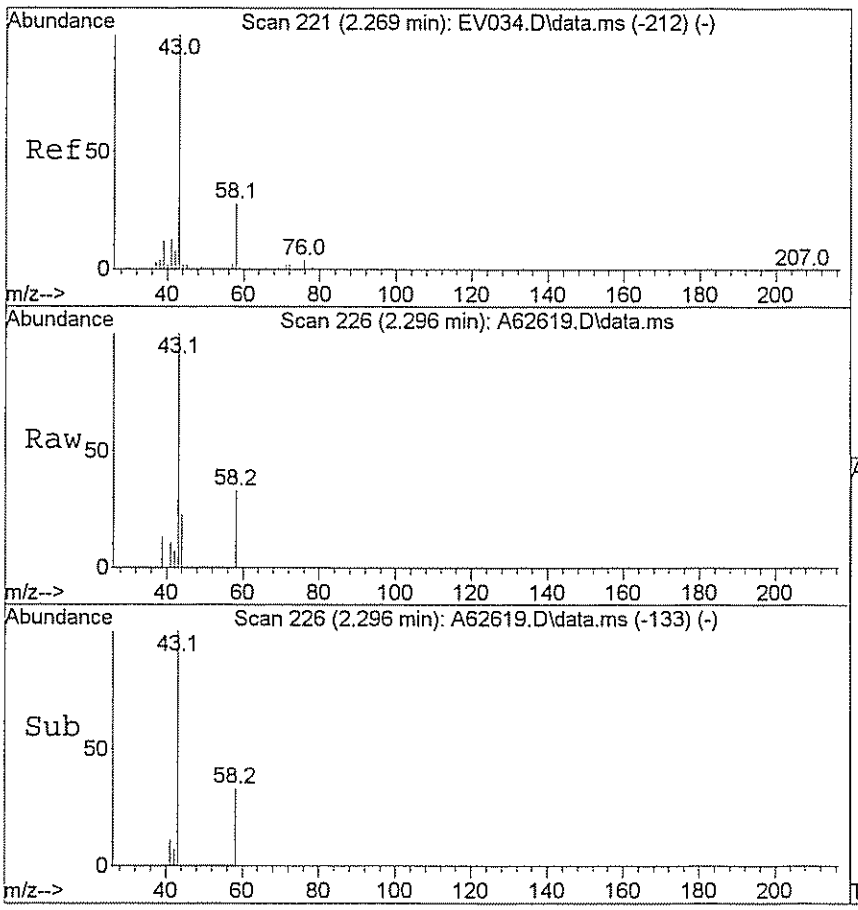


#15
Methylene chloride
Concen: 2.24 ug/L
RT: 2.595 min Scan# 282
Delta R.T. 0.000 min
Lab File: A62619.D
Acq: 27 Mar 2009 3:59

Tgt Ion: 84 Resp: 999

Ion	Ratio	Lower	Upper
84	100		
49	180.2	125.9	188.9

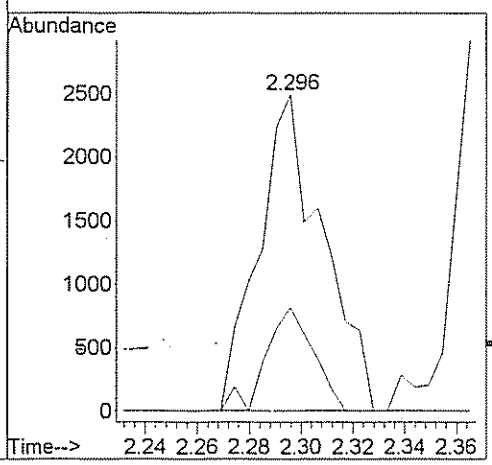


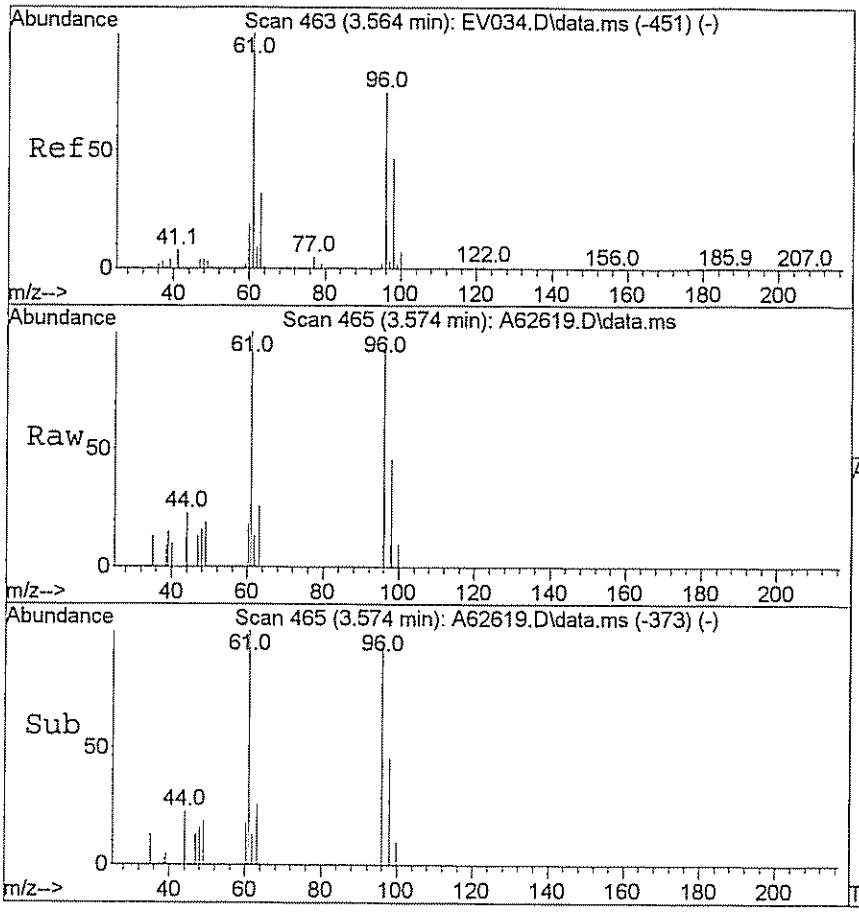


#19
Acetone
Concen: 7.96 ug/L
RT: 2.296 min Scan# 226
Delta R.T. 0.000 min
Lab File: A62619.D
Acq: 27 Mar 2009 3:59

Tgt Ion: 43 Resp: 4283

Ion	Ratio	Lower	Upper
43	100		
58	24.3	25.2	37.8#

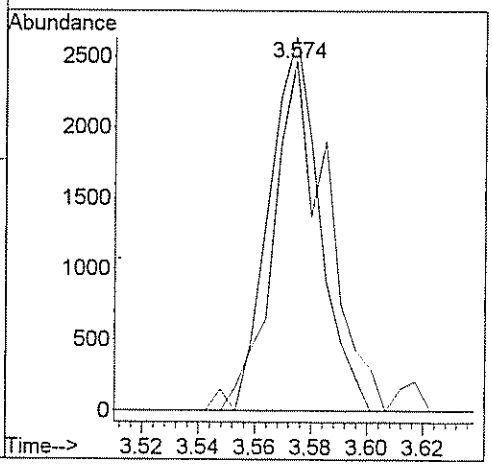


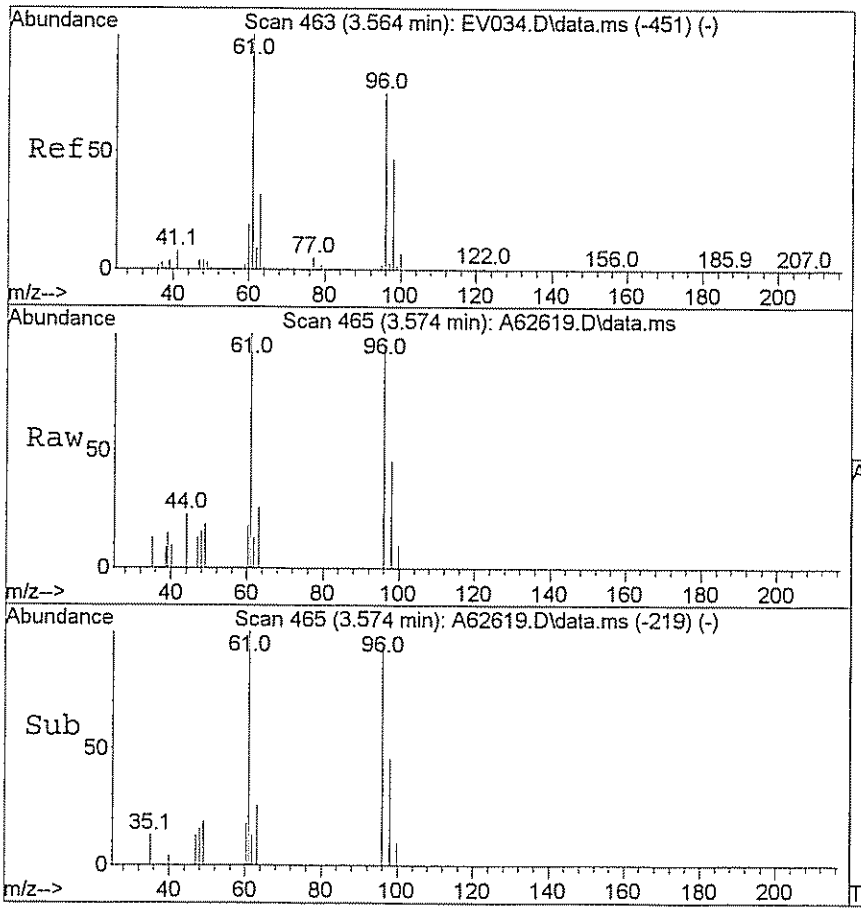


#28
Cis-1,2-dichloroethene
Concen: 1.84 ug/L
RT: 3.574 min Scan# 465
Delta R.T. -0.005 min
Lab File: A62619.D
Acq: 27 Mar 2009 3:59

Tgt Ion: 96 Resp: 3326

Ion	Ratio	Lower	Upper
96	100		
61	100.1	115.0	172.6#

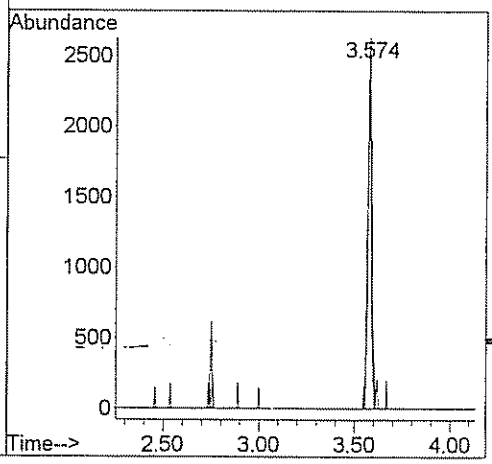


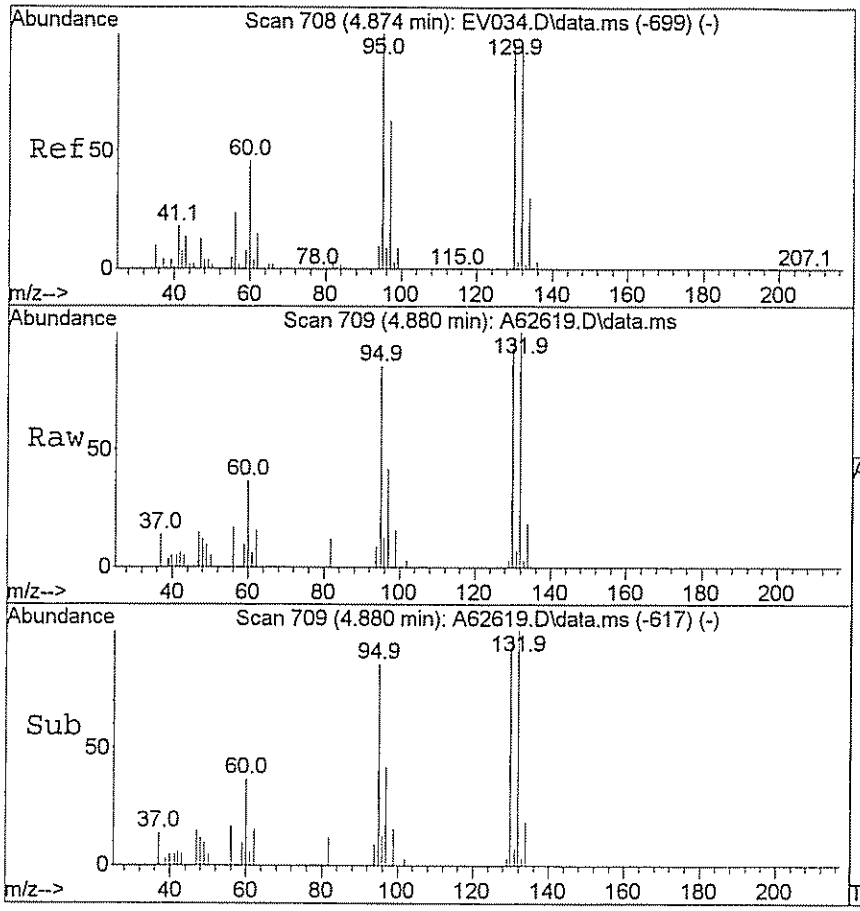


#29
1,2-dichloroethene(total)
Concen: 1.91 ug/L m
RT: 3.574 min Scan# 465
Delta R.T. 0.819 min
Lab File: A62619.D
Acq: 27 Mar 2009 3:59

Tgt Ion: 96 Resp: 3656

Ion	Ratio	Lower	Upper
96	100		
61	14.2	115.0	172.6#

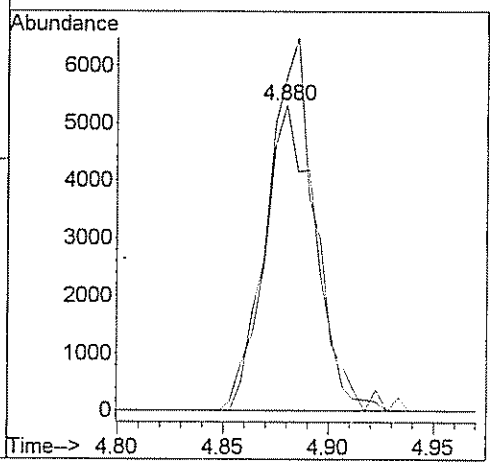




#47
Trichloroethene
Concen: 4.91 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62619.D
Acq: 27 Mar 2009 3:59

Tgt Ion: 95 Resp: 8911

Ion	Ratio	Lower	Upper
95	100		
130	113.4	79.7	119.5



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-031-1/3
Sample Volume :	5	Lab File ID :	A62621.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	2.8	J
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-031-1/3
Sample Volume :	5	Lab File ID :	A62621.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.4	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-031-1/3
Sample Volume :	5	Lab File ID :	A62621.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.1	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62621.D
Acq On : 27 Mar 2009 4:40
Operator : SM
Sample : 903124-011
Misc : OUI-52GW38-0309,CH2M HILL,WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 30 12:29:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

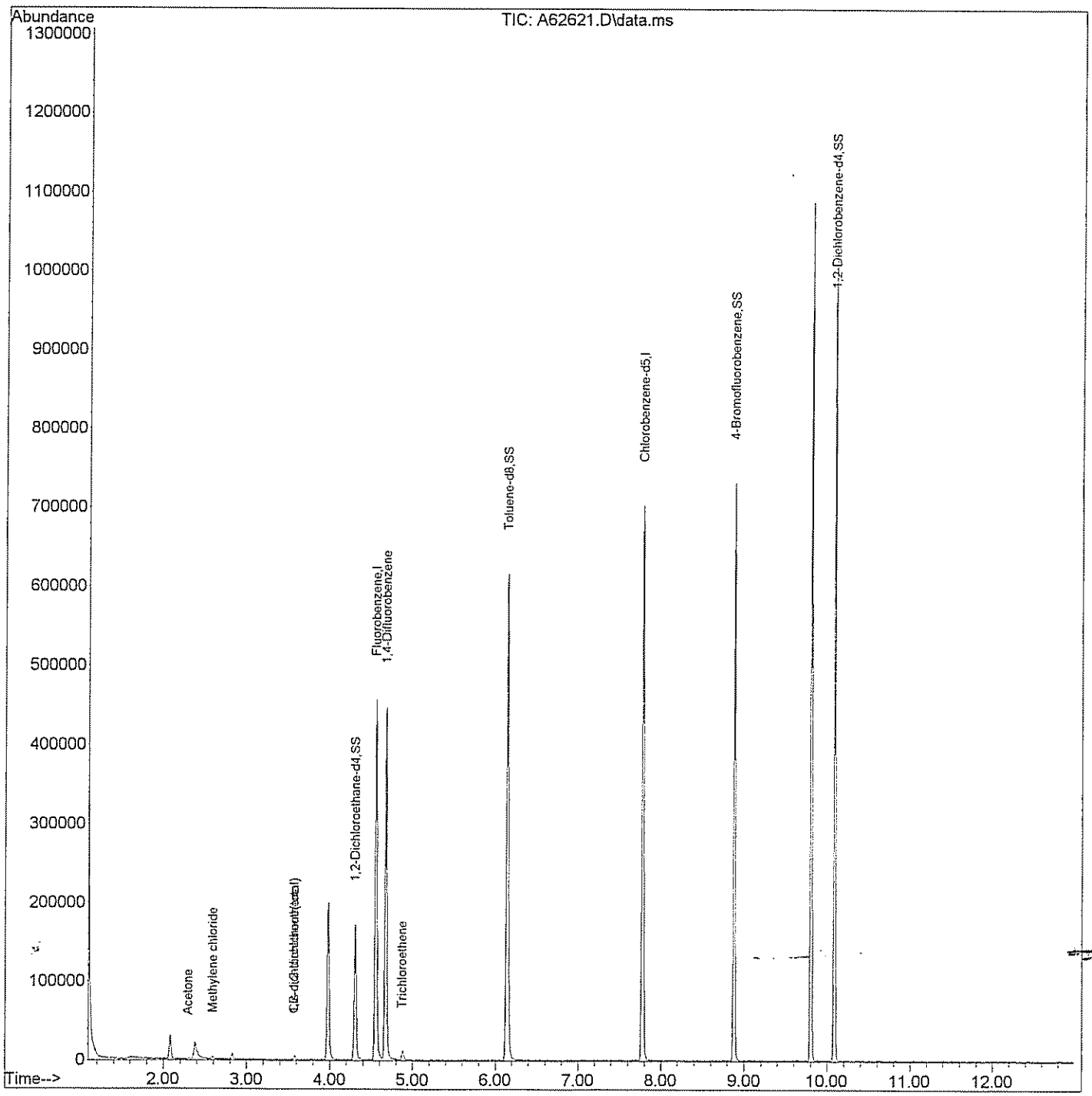
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	336600	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	320912	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	344502	50.00	ug/L	#	0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	87944	49.18	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 98.36%				
54) Toluene-d8	6.142	98	375593	50.51	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 101.02%				
76) 4-Bromofluorobenzene	8.881	95	147933	45.56	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 91.12%				
92) 1,2-Dichlorobenzene-d4	10.085	152	183819	57.72	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 115.44%				
Target Compounds							Qvalue
15) Methylene chloride	2.590	84	930	2.23	ug/L		91
19) Acetone	2.296	43	1042	2.82	ug/L		92
28) Cis-1,2-dichloroethene	3.569	96	1930	1.13	ug/L	#	73
29) 1,2-dichloroethene(total)	3.569	96	2072m	1.15	ug/L		
47) Trichloroethene	4.880	95	2422	1.39	ug/L	#	50

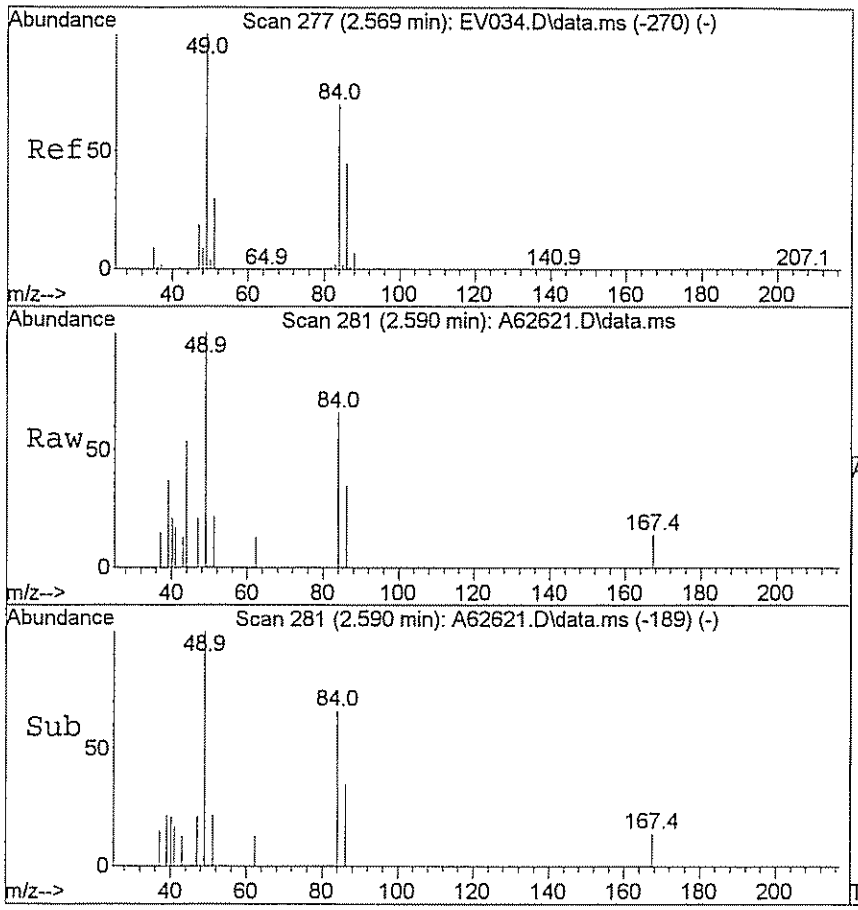
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62621.D
Acq On : 27 Mar 2009 4:40
Operator : SM
Sample : 903124-011
Misc : OUI-52GW38-0309,CH2M HILL,WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 30 12:29:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

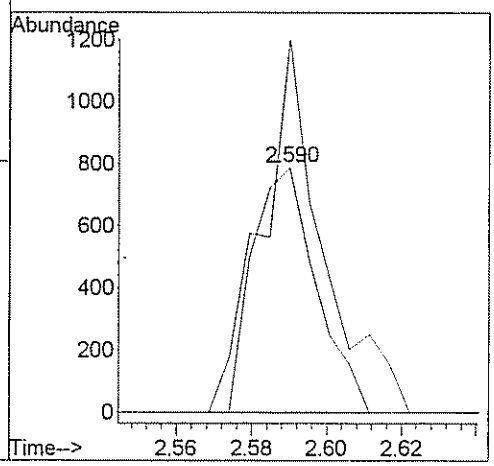


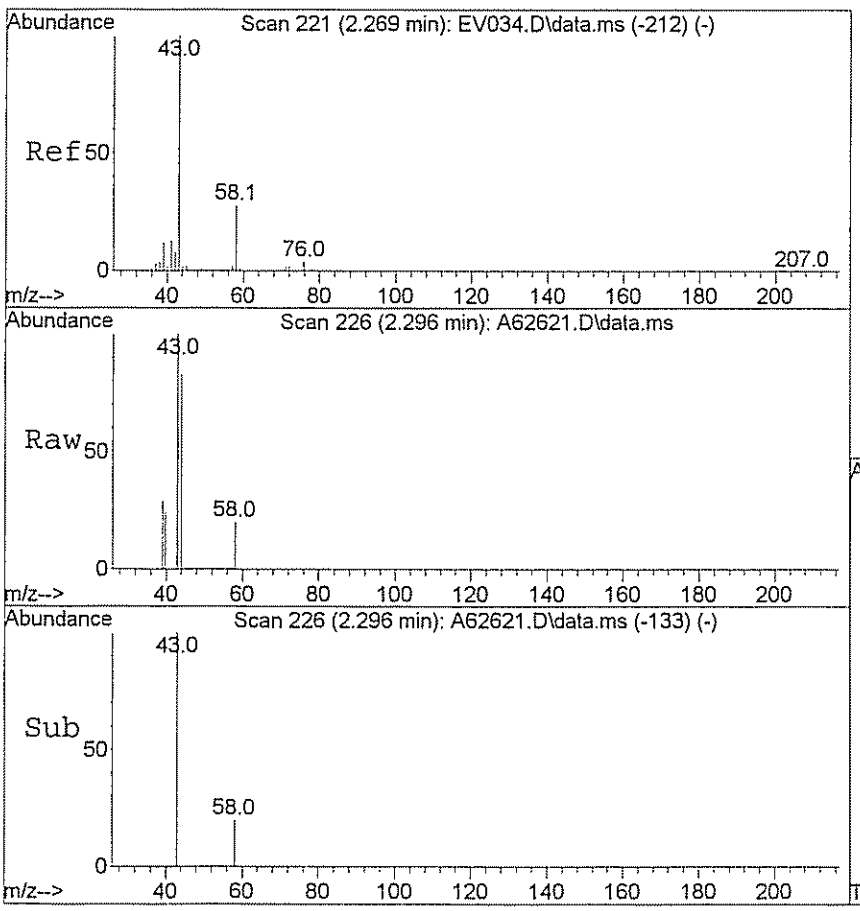


#15
Methylene chloride
Concen: 2.23 ug/L
RT: 2.590 min Scan# 281
Delta R.T. -0.005 min
Lab File: A62621.D
Acq: 27 Mar 2009 4:40

Tgt Ion: 84 Resp: 930

Ion	Ratio	Lower	Upper
84	100		
49	145.9	125.9	188.9

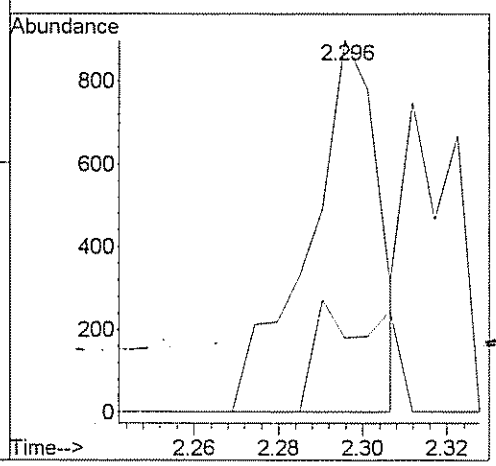


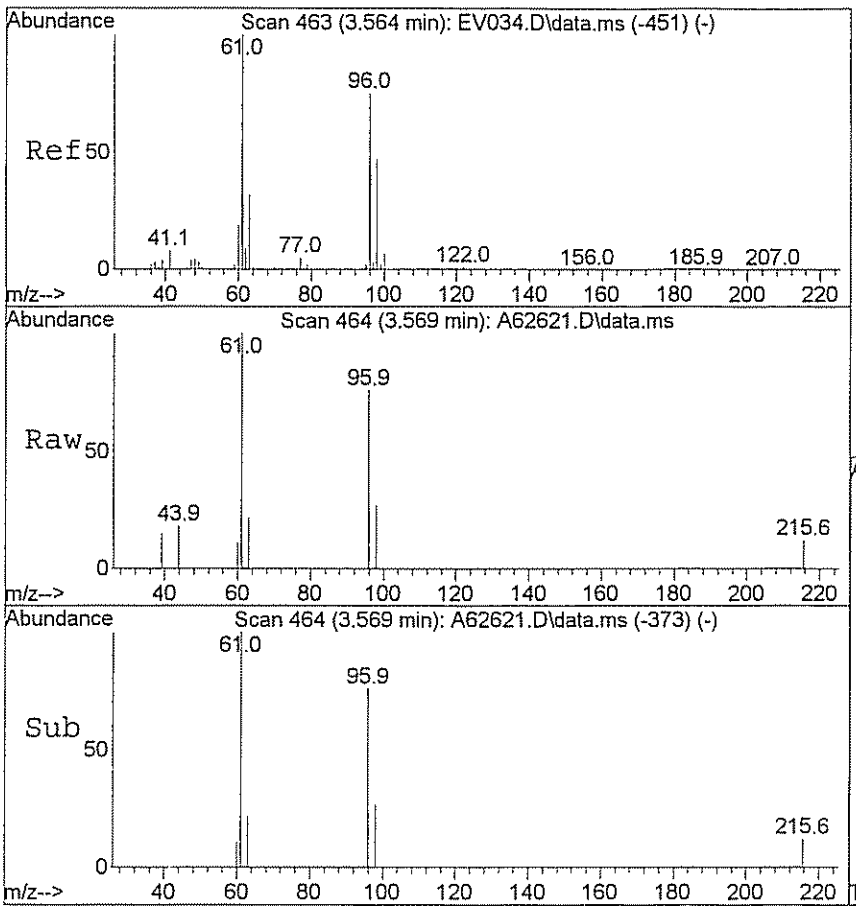


#19
Acetone
Concen: 2.82 ug/L
RT: 2.296 min Scan# 226
Delta R.T. 0.000 min
Lab File: A62621.D
Acq: 27 Mar 2009 4:40

Tgt Ion: 43 Resp: 1042

Ion	Ratio	Lower	Upper
43	100		
58	27.2	25.2	37.8

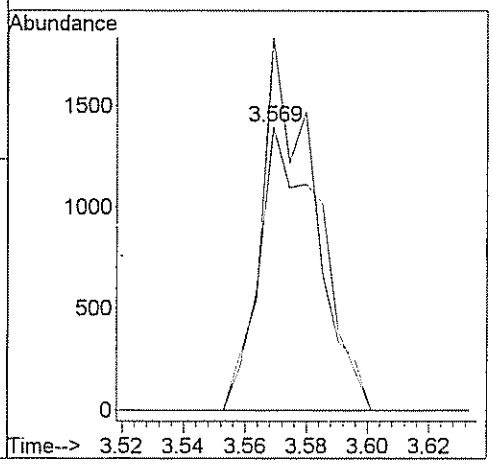


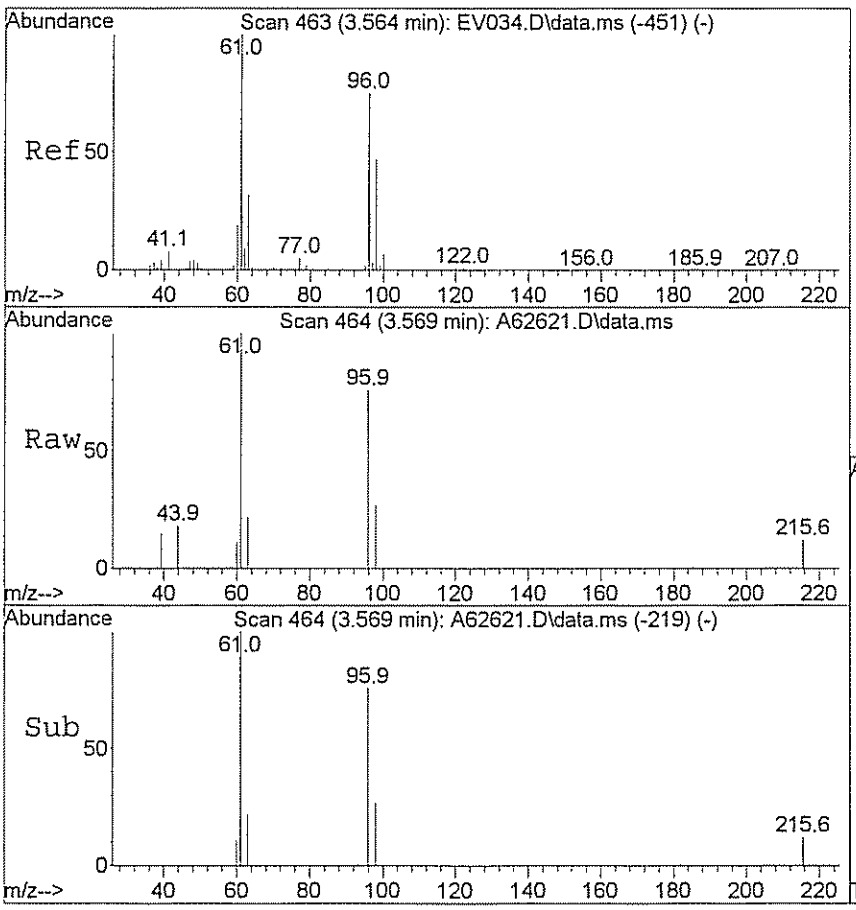


#28
Cis-1,2-dichloroethene
Concen: 1.13 ug/L
RT: 3.569 min Scan# 464
Delta R.T. -0.011 min
Lab File: A62621.D
Acq: 27 Mar 2009 4:40

Tgt Ion: 96 Resp: 1930

Ion	Ratio	Lower	Upper
96	100		
61	109.9	115.0	172.6#

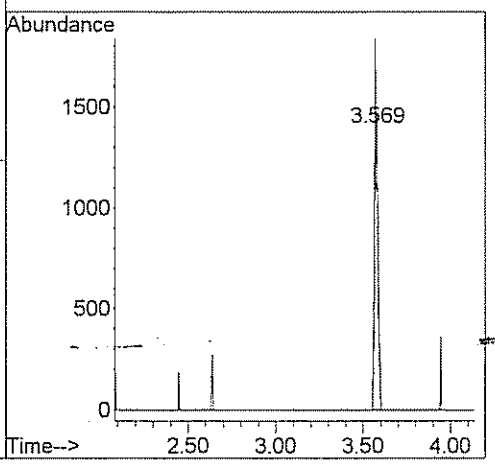


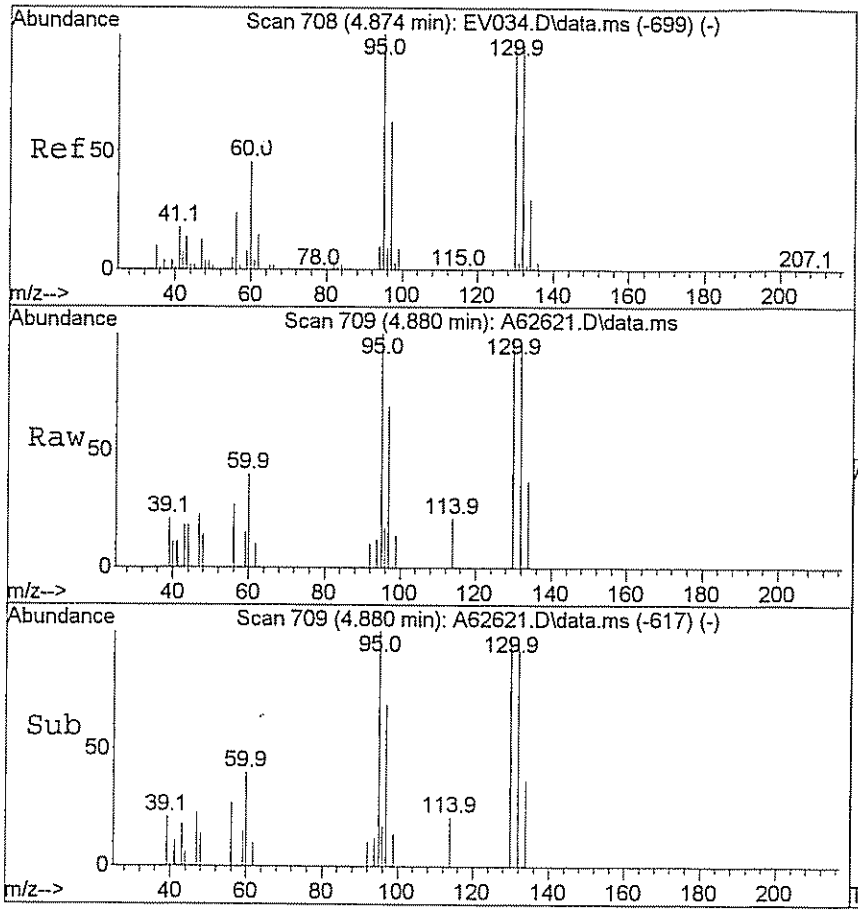


#29
1,2-dichloroethene(total)
Concen: 1.15 ug/L m
RT: 3.569 min Scan# 464
Delta R.T. 0.813 min
Lab File: A62621.D
Acq: 27 Mar 2009 4:40

Tgt Ion: 96 Resp: 2072

Ion	Ratio	Lower	Upper
96	100		
61	0.0	115.0	172.6#

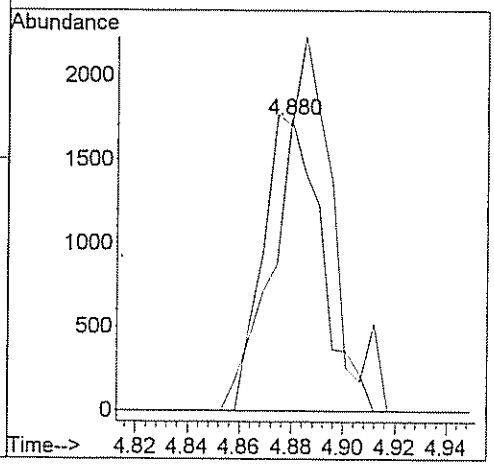




#47
Trichloroethene
Concen: 1.39 ug/L
RT: 4.880 min Scan# 709
Delta R.T. -0.005 min
Lab File: A62621.D
Acq: 27 Mar 2009 4:40

Tgt Ion: 95 Resp: 2422

Ion	Ratio	Lower	Upper
95	100		
130	149.3	79.7	119.5#



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB14-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-012-089-1/3
Sample Volume :	5	Lab File ID :	A62623.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB14-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-012-089-1/3
Sample Volume :	5	Lab File ID :	A62623.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.3	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB14-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-012-089-1/3
Sample Volume :	5	Lab File ID :	A62623.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62623.D
Acq On : 27 Mar 2009 5:21
Operator : SM
Sample : 903124-012
Misc : OUI-TB14-0309,CH2M HILL,WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 30 12:27:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

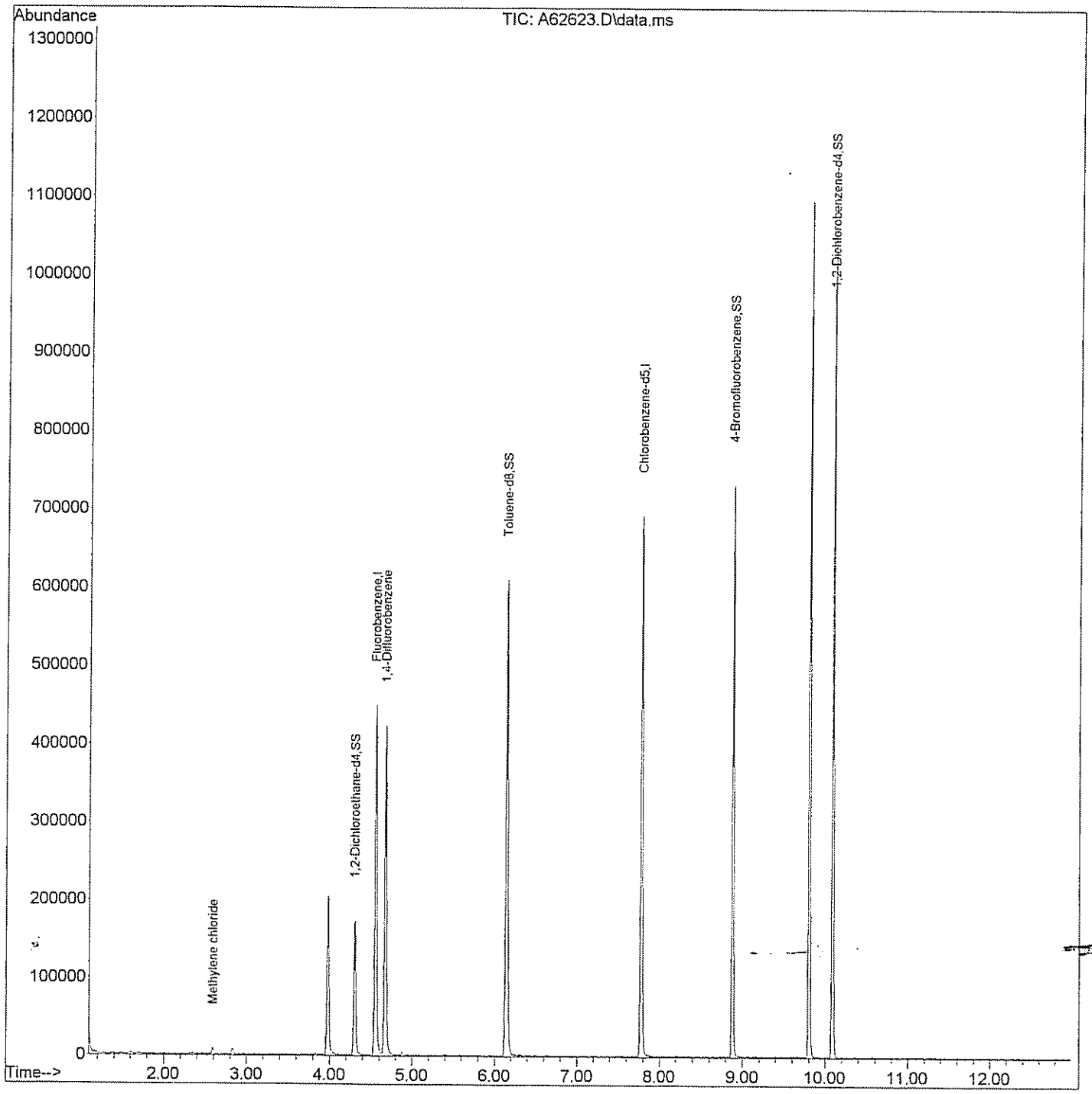
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	338772	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	317276	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	346175	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	86222	47.91	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 95.82%			
54) Toluene-d8	6.142	98	372844	50.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 101.42%			
76) 4-Bromofluorobenzene	8.881	95	148195	45.42	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 90.84%			
92) 1,2-Dichlorobenzene-d4	10.085	152	188637	58.94	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.88%			
Target Compounds						Qvalue
15) Methylene chloride	2.590	84	2668	3.28	ug/L	88

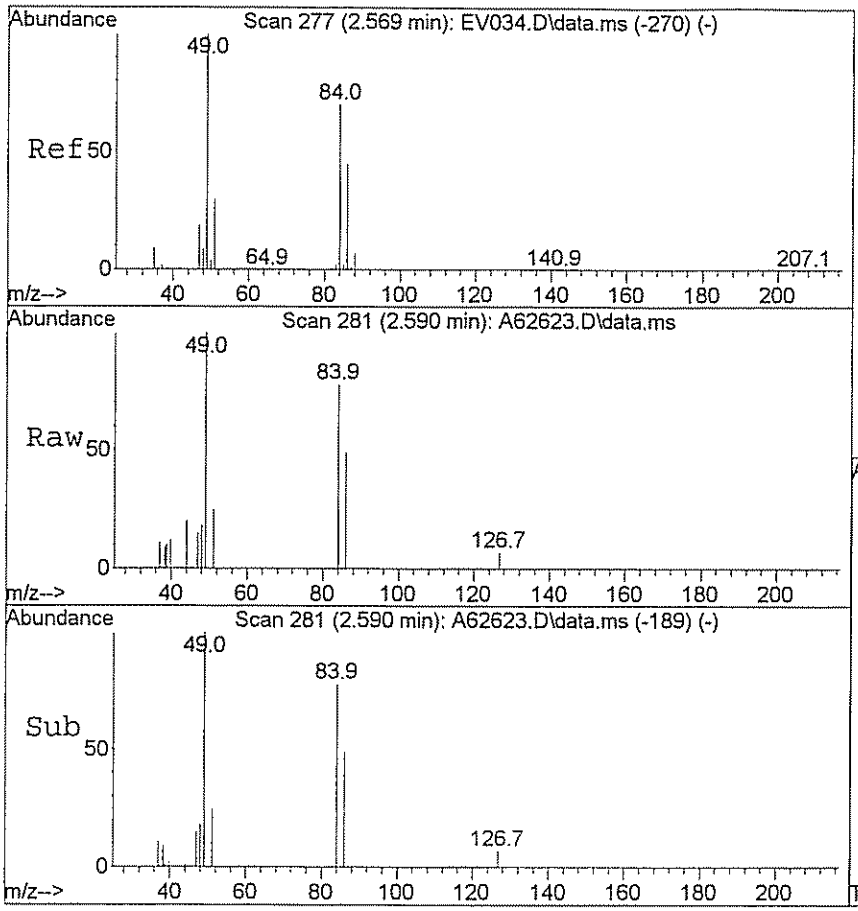
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62623.D
Acq On : 27 Mar 2009 5:21
Operator : SM
Sample : 903124-012
Misc : OUI-TB14-0309,CH2M HILL,WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 30 12:27:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

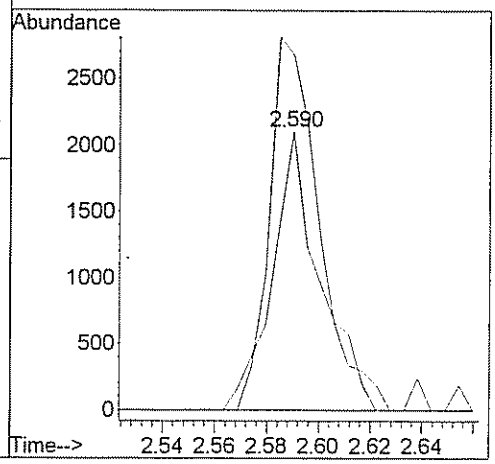




#15
Methylene chloride
Concen: 3.28 ug/L
RT: 2.590 min Scan# 281
Delta R.T. -0.005 min
Lab File: A62623.D
Acq: 27 Mar 2009 5:21

Tgt Ion: 84 Resp: 2668

Ion	Ratio	Lower	Upper
84	100		
49	141.6	125.9	188.9



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB15-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-013-092-1/3
Sample Volume :	5	Lab File ID :	A62625.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB15-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-013-092-1/3
Sample Volume :	5	Lab File ID :	A62625.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.0	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB15-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-013-092-1/3
Sample Volume :	5	Lab File ID :	A62625.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62625.D
Acq On : 27 Mar 2009 6:02
Operator : SM
Sample : 903124-013
Misc : OU1-TB15-0309,CH2M HILL,WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 30 12:23:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

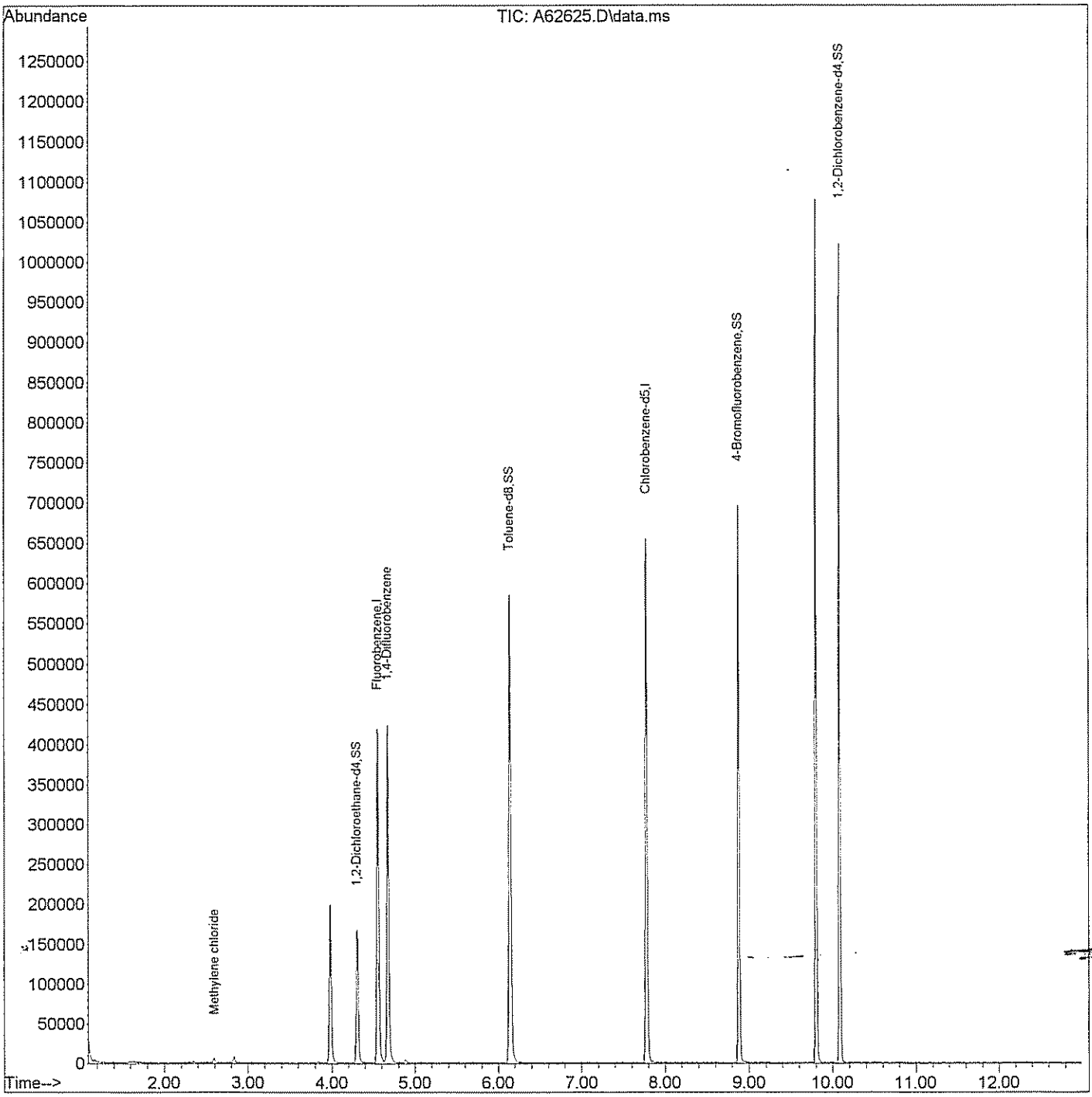
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.559	96	319454	50.00	ug/L	0.00
41) 1,4-Difluorobenzene		4.676	114	301265	50.00	ug/L	# 0.00
59) Chlorobenzene-d5		7.779	117	328489	50.00	ug/L	0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4		4.302	65	87135	51.34	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery = 102.68%			
54) Toluene-d8		6.142	98	348377	49.90	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery = 99.80%			
76) 4-Bromofluorobenzene		8.881	95	139359	45.01	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery = 90.02%			
92) 1,2-Dichlorobenzene-d4		10.085	152	180388	59.40	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery = 118.80%			
Target Compounds							Qvalue
15) Methylene chloride		2.595	84	2045	2.98	ug/L	# 71

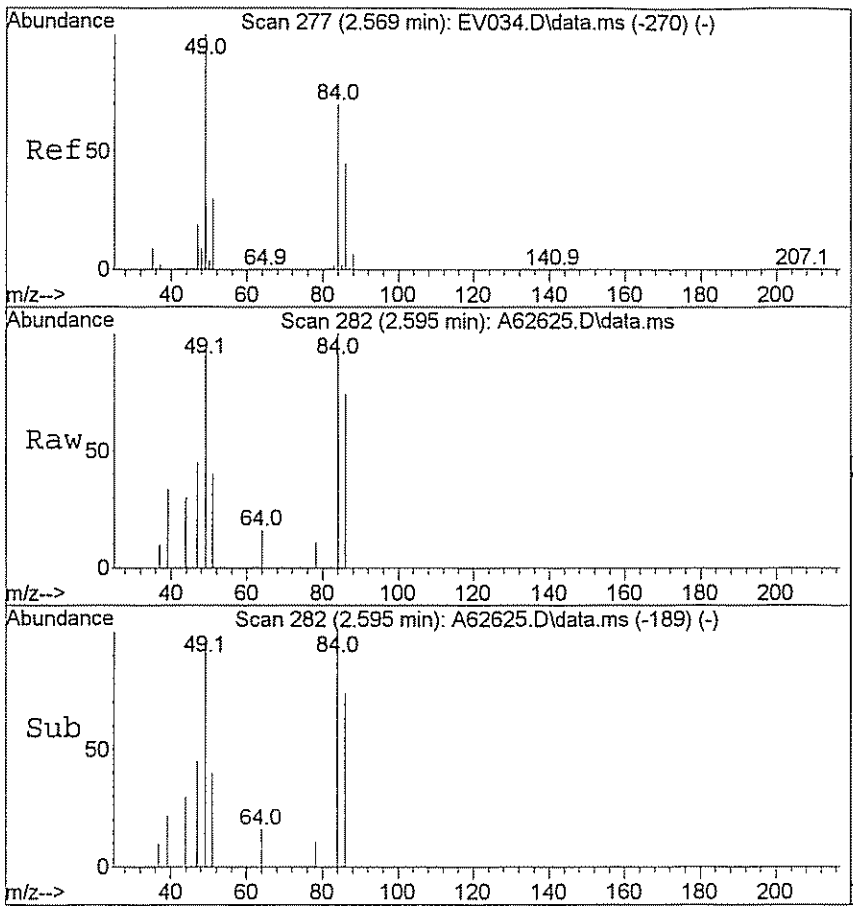
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62625.D
Acq On : 27 Mar 2009 6:02
Operator : SM
Sample : 903124-013
Misc : OU1-TB15-0309,CH2M HILL,WATER
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 30 12:23:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

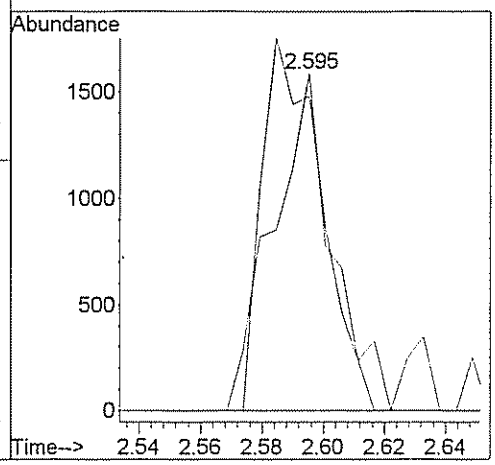




#15
Methylene chloride
Concen: 2.98 ug/L
RT: 2.595 min Scan# 282
Delta R.T. 0.000 min
Lab File: A62625.D
Acq: 27 Mar 2009 6:02

Tgt Ion: 84 Resp: 2045

Ion	Ratio	Lower	Upper
84	100		
49	119.7	125.9	188.9#



C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 08:06:42 2009
Response Via : Initial Calibration

Calibration Files
1 =A62207.D 5 =A62209.D 20 =A62211.D 50 =A62213.D 100 =A62215.D
200 =A62219.D

		Compound	1	5	20	50	100	200	Avg	%R
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluo...	0.067	0.085	0.103	0.098		0.090	0.089	15.40
3)		Chloromethane	0.188	0.181	0.173	0.145	0.159	0.199	0.174	11.27
4)		Vinyl chloride	0.220	0.190	0.192	0.211	0.214	0.214	0.207	6.19
5)		Bromomethane	0.218	0.069	0.099	0.078	0.114		0.115	~~51.80~~ r^2=0.995
6)		Chloroethane		0.144	0.142	0.142	0.141	0.157	0.145	4.69
7)		Trichlorofluor...	0.154	0.245	0.282	0.290	0.307		0.256	~~23.94~~ r^2=0.999
8)		Ethyl Ether	0.163	0.157	0.165	0.189	0.188	0.206	0.178	10.84
9)		Freon 113	0.153	0.135	0.174	0.165		0.165	0.158	9.58
10)		Acrolein		0.037	0.031	0.036	0.035	0.040	0.036	9.22
11)		Tert-Butyl alc...	0.016	0.021	0.018	0.026	0.021		0.020	18.36
12)		1,1-Dichloroet...	0.177	0.162	0.167	0.188	0.193	0.202	0.182	8.55
13)		Iodomethane	0.457	0.111	0.200	0.091	0.247	0.161	0.211	63.20
14)		Acetonitrile	0.079	0.075	0.093	0.124	0.139	0.138	0.108	~~26.99~~ r^2=0.9991
15)		Methylene chlo...	0.375	0.222	0.213	0.224	0.235	0.243	0.252	~~24.26~~ r^2=0.9991
16)		Trans-1,2-dich...	0.209	0.186	0.197	0.221	0.230		0.209	8.57
17)		Isopropyl ether	0.794	0.717	0.779	0.874	0.894		0.812	8.93
18)		1,1-Dichloroet...	0.325	0.334	0.368	0.411	0.431		0.374	12.44
19)		Acetone	0.151	0.086	0.070	0.091	0.084	0.086	0.095	~~30.23~~ r^2=0.9991
20)		Methyl Acetate	0.225	0.217	0.185	0.256		0.048	0.186	~~43.60~~ r^2=0.9973
21)		MTBE	0.473	0.510	0.527	0.610	0.604		0.545	11.02
22)		Carbon disulfide	1.024	0.568	0.589	0.610	0.643	0.638	0.679	~~25.30~~ r^2=0.9991
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile		0.059	0.058	0.067	0.062	0.071	0.063	8.81
25)		Chloroprene	0.352	0.318	0.337	0.354	0.398	0.383	0.357	8.23
26)	T	n-Heptane	0.229	0.156	0.188	0.173	0.184	0.166	0.183	14.14
27)		2,2-Dichloropr...	0.284	0.268		0.334	0.340	0.338	0.313	10.86
28)		Cis-1,2-dichlo...	0.280	0.214		0.253	0.263	0.256	0.253	9.47
29)		1,2-dichloroet...	0.366		0.223	0.242	0.248	0.260	0.268	21.04
30)		Propionitrile	0.028	0.029	0.028	0.035	0.031	0.036	0.031	11.14
31)		Bromochloromet...	0.088	0.091	0.107	0.119	0.122	0.129	0.109	15.51
32)		Tetrahydrofuran	0.047	0.049	0.049	0.055	0.049	0.059	0.051	9.52
33)		Chloroform	0.515	0.347	0.353	0.399	0.446	0.498	0.426	16.82
34)		Cyclohexane	0.560	0.302	0.371	0.358	0.395	0.363	0.392	~~22.47~~ r^2=0.991
35)		1,1,1-Trichlor...	0.289	0.274	0.307	0.333	0.343	0.363	0.318	10.68
36)		Carbon tetrach...	0.218	0.240	0.265	0.290	0.310	0.313	0.272	14.18
37)		Methacrylonitrile	0.141		0.144	0.175	0.176	0.213	0.170	17.12
38)		Methylcyclohexane	0.360	0.292	0.354	0.333	0.373	0.318	0.338	8.82
39)		Isobutyl Alcohol	0.011	0.014	0.017	0.016		0.015	0.015	15.42
40)	SS	1,2-Dichloroet...	0.258	0.262	0.263	0.265	0.265	0.282	0.266	3.13
41)		1,4-Difluorobenzene	ISTD							
42)		2-Butanone	0.150	0.152	0.146	0.185	0.166	0.178	0.163	9.84

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

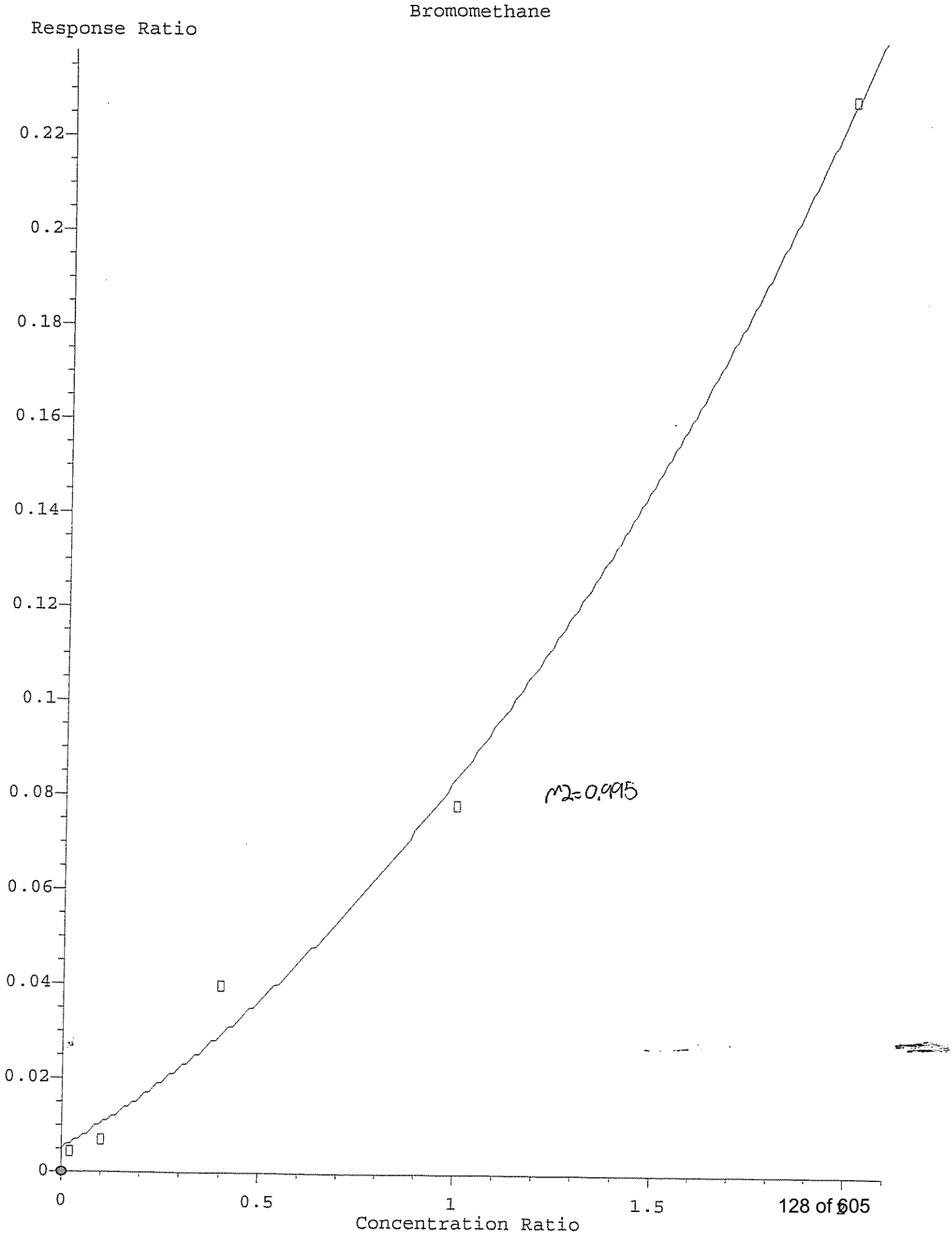
43)		1,1-Dichloropr...	0.270	0.305	0.331	0.370	0.377	0.381	0.339	13.34
44)		Vinyl Acetate	0.369	0.357		0.401	0.394	0.386	0.381	4.81
45)		Benzene	0.924	0.932	1.027	1.118	1.156	1.192	1.058	10.86
46)		1,2-Dichloroet...	0.277	0.295	0.324	0.359	0.360	0.376	0.332	12.02
47)		Trichloroethene	0.269	0.243	0.263	0.278	0.289	0.289	0.272	6.46
48)		1,2-Dichloropr...	0.226	0.230	0.263	0.298	0.305	0.305	0.271	13.65
49)		Methyl methacr...	0.215	0.205	0.171	0.201	0.185	0.202	0.196	8.01
50)		Dibromomethane	0.171	0.151	0.147	0.176	0.172	0.184	0.167	8.78
51)		Bromodichlorom...	0.338	0.315	0.334	0.376	0.376	0.385	0.354	8.07
52)		2-Chloroethylv...	0.027	0.143	0.149	0.165	0.057	0.106	0.108	51.45
53)		Cis-1,3-dichlo...	0.340	0.361		0.469	0.471	0.491	0.427	16.46
54)	SS	Toluene-d8	1.125	1.133	1.141	1.158	1.177	1.218	1.159	2.99
55)		Toluene	0.589	0.599	0.664	0.740	0.763	0.807	0.694	13.02
56)		Trans-1,3-dich...	0.273	0.355		0.433	0.417	0.455	0.387	18.95
57)		Ethyl methacry...	0.347	0.304	0.324	0.365	0.358	0.385	0.347	8.47
58)		1,1,2-Trichlor...	0.183	0.186		0.220	0.217	0.234	0.208	10.71
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)		4-Methyl-2-pen...	0.272	0.284	0.284	0.321	0.289	0.300	0.292	5.85
61)		2-Hexanone	0.175	0.219	0.196	0.238	0.214	0.220	0.210	10.29
62)		Tetrachloroethene	0.228	0.256	0.285	0.305	0.324	0.332	0.288	13.99
63)		1,3-Dichloropr...	0.361	0.399	0.395	0.451	0.441	0.448	0.416	8.74
64)		Dibromochlorom...	0.245	0.291	0.291	0.322	0.324	0.334	0.301	10.93
65)		1,2-Dibromoethane	0.246	0.242	0.248	0.270	0.266	0.271	0.257	5.13
66)		1-Chlorohexane	0.470	0.400	0.409	0.437	0.441	0.437	0.432	5.79
67)		Chlorobenzene	0.748	0.753	0.821	0.906	0.935	0.925	0.848	10.10
68)		1,1,1,2-Tetrac...	0.248	0.259	0.292	0.328	0.342	0.354	0.304	14.65
69)		Ethylbenzene	1.318	1.300	1.394	1.507	1.582	1.607	1.451	9.15
70)		m,p-Xylene	0.510	0.513	0.560	0.618	0.648		0.570	10.86
71)		o-Xylene	0.551	0.505	0.566	0.601	0.624	0.620	0.578	7.95
72)		Xylene (Total)	0.524	0.511	0.564	0.613	0.641	0.662	0.586	10.68
73)		Styrene	0.827	0.857	0.930	1.024	1.062	1.060	0.960	10.80
74)		Bromoform	0.149	0.175	0.176	0.212	0.200	0.209	0.187	13.15
75)		Isopropylbenzene	1.052	1.108	1.196	1.299	1.367	1.346	1.228	10.60
76)	SS	4-Bromofluorob...	0.468	0.466	0.474	0.477	0.477	0.465	0.471	1.16
77)		Bromobenzene	0.300	0.296	0.326	0.356	0.370	0.370	0.336	10.07
78)		1,1,2,2-Tetrac...	0.317	0.314	0.308	0.356	0.339	0.347	0.330	6.00
79)		1,2,3-Trichlor...	0.091	0.103	0.091	0.105	0.098	0.101	0.098	6.04
80)		n-Propylbenzene	1.522	1.538	1.655	1.792	1.853	1.840	1.700	8.79
81)		Trans-1,4-dich...	0.066	0.099	0.064	0.109	0.074	0.088	0.083	~~21.93~~ M2=0.987
82)		2-Chlorotoluene	0.338	0.323	0.352	0.384	0.388	0.378	0.361	7.43
83)		4-Chlorotoluene	0.354	0.335	0.356	0.391	0.407	0.403	0.374	7.96
84)		1,3,5-Trimethy...	1.021	1.048	1.163	1.281	1.369	1.359	1.207	12.65
85)		Tert-butylbenzene	0.855	0.919	1.011	1.122	1.196	1.189	1.049	13.66
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.051	1.091	1.184	1.318	1.418	1.460	1.254	13.63
88)		Sec-Butylbenzene	1.363	1.379	1.554	1.726	1.836	1.785	1.607	12.83
89)		1,3-Dichlorobe...	0.581	0.583	0.663	0.740	0.804	0.864	0.706	16.56
90)		4-Isopropyltol...	1.162	1.185	1.338	1.507	1.641	—	1.367	15.11
91)		1,4-Dichlorobe...	0.581	0.624	0.679	0.749	0.800	0.815	0.708	13.52
92)	SS	1,2-Dichlorobe...	0.439	0.440	0.457	0.465	0.487	0.486	0.462	4.56
93)		1,2-Dichlorobe...	0.614	0.556		0.688	0.756	0.756	0.674	13.10
94)		n-Butylbenzene	1.300	1.191	1.253	1.396	1.500	1.454	1.349	8.94
95)		1,2-Dibromo-3-...	0.051	0.056	0.051	0.062	0.057	0.063	0.057	9.21
96)		1,2,4-Trichlor...	0.405	0.335	0.363	0.417	0.452	0.481	0.409	13.24

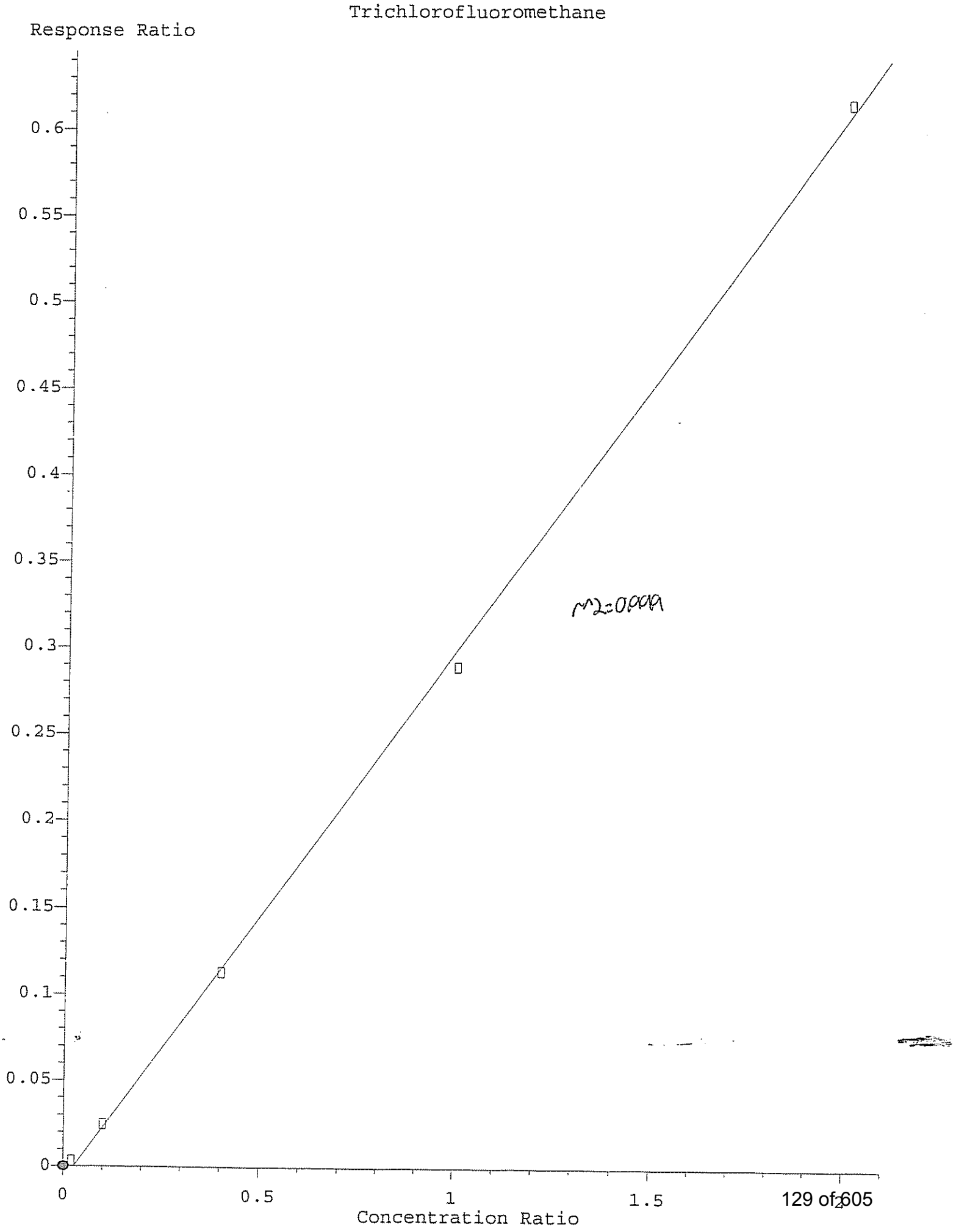
Response Factor Report Instrument A

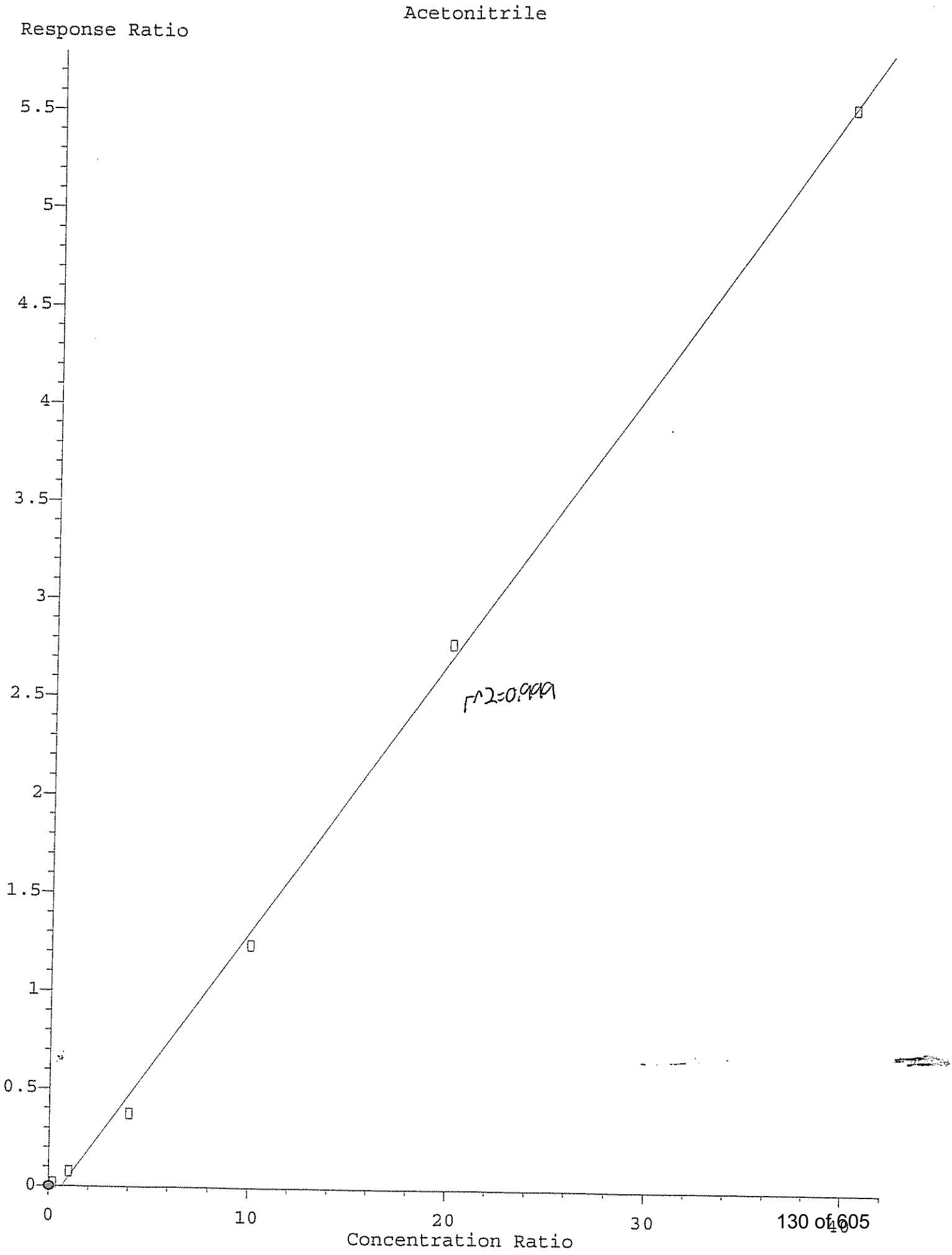
Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260_031009.M
Title : 8260

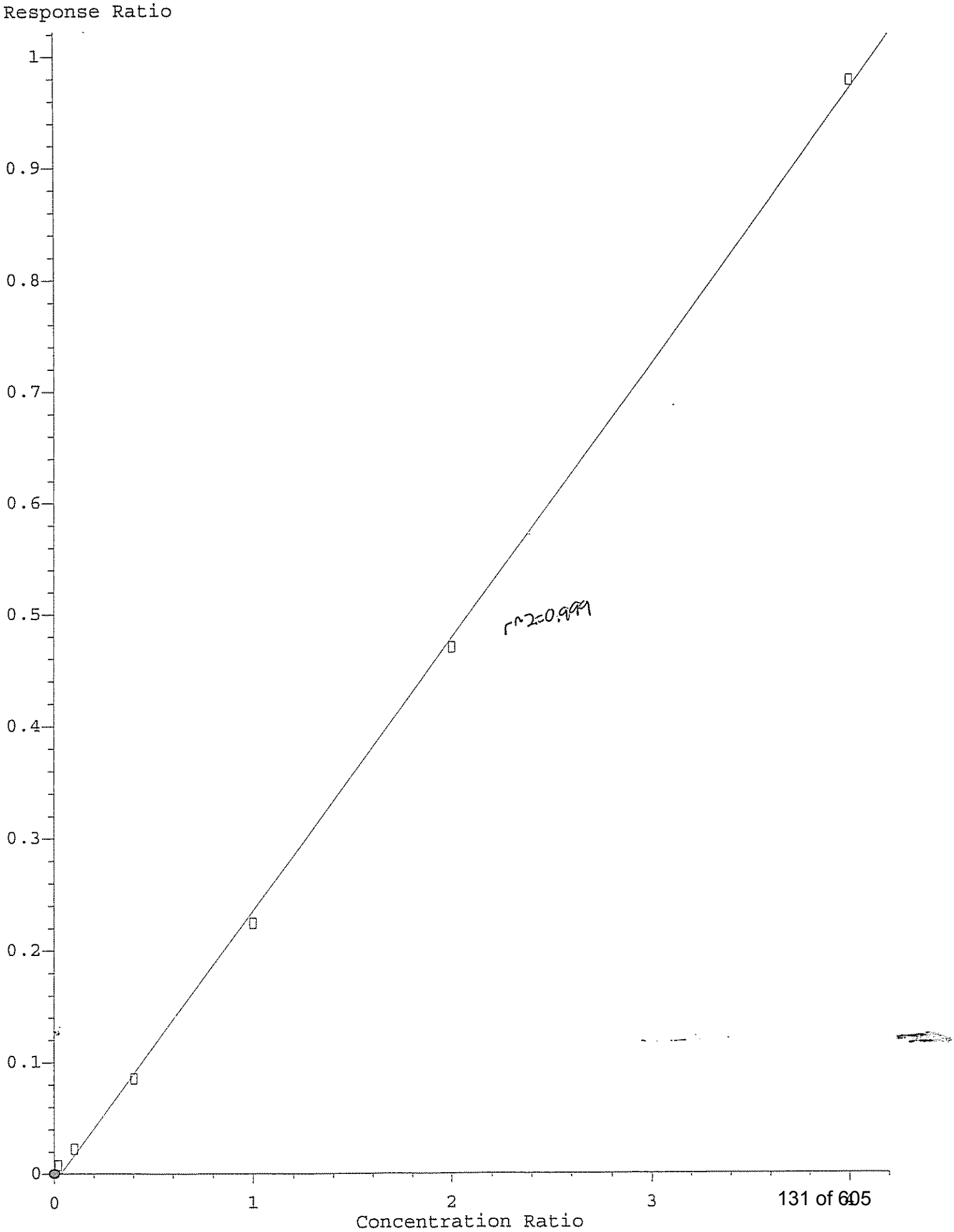
97)	Hexachlorobuta...	0.192	0.145	0.170	0.197	0.215	0.224	0.190	15.45
98)	Naphthalene	0.824	0.898	0.877	1.102	1.033	1.113	0.975	12.73
99)	1,2,3-Trichlor...	0.323	0.289	0.308	0.362	0.371	0.400	0.342	12.35

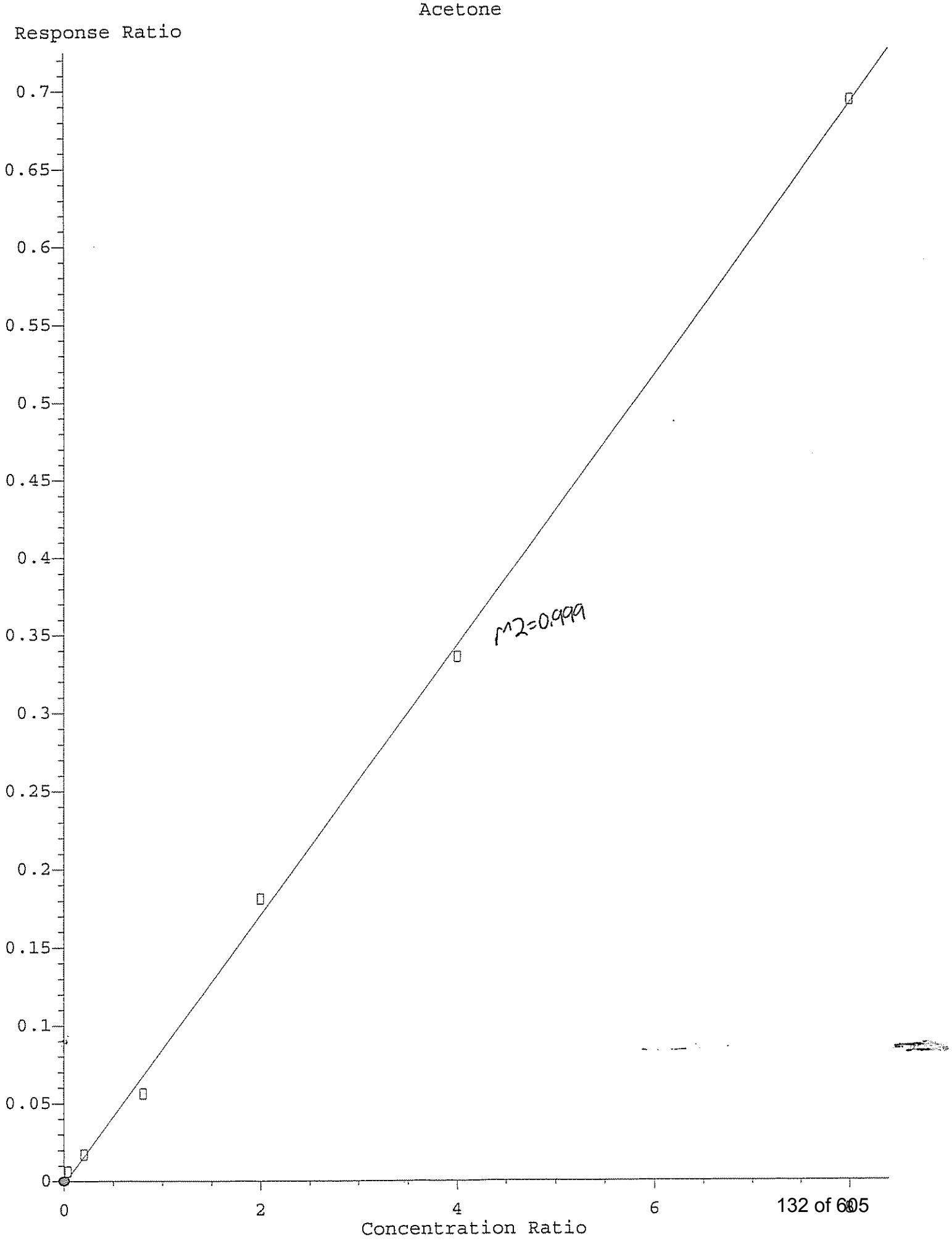
(#) = Out of Range

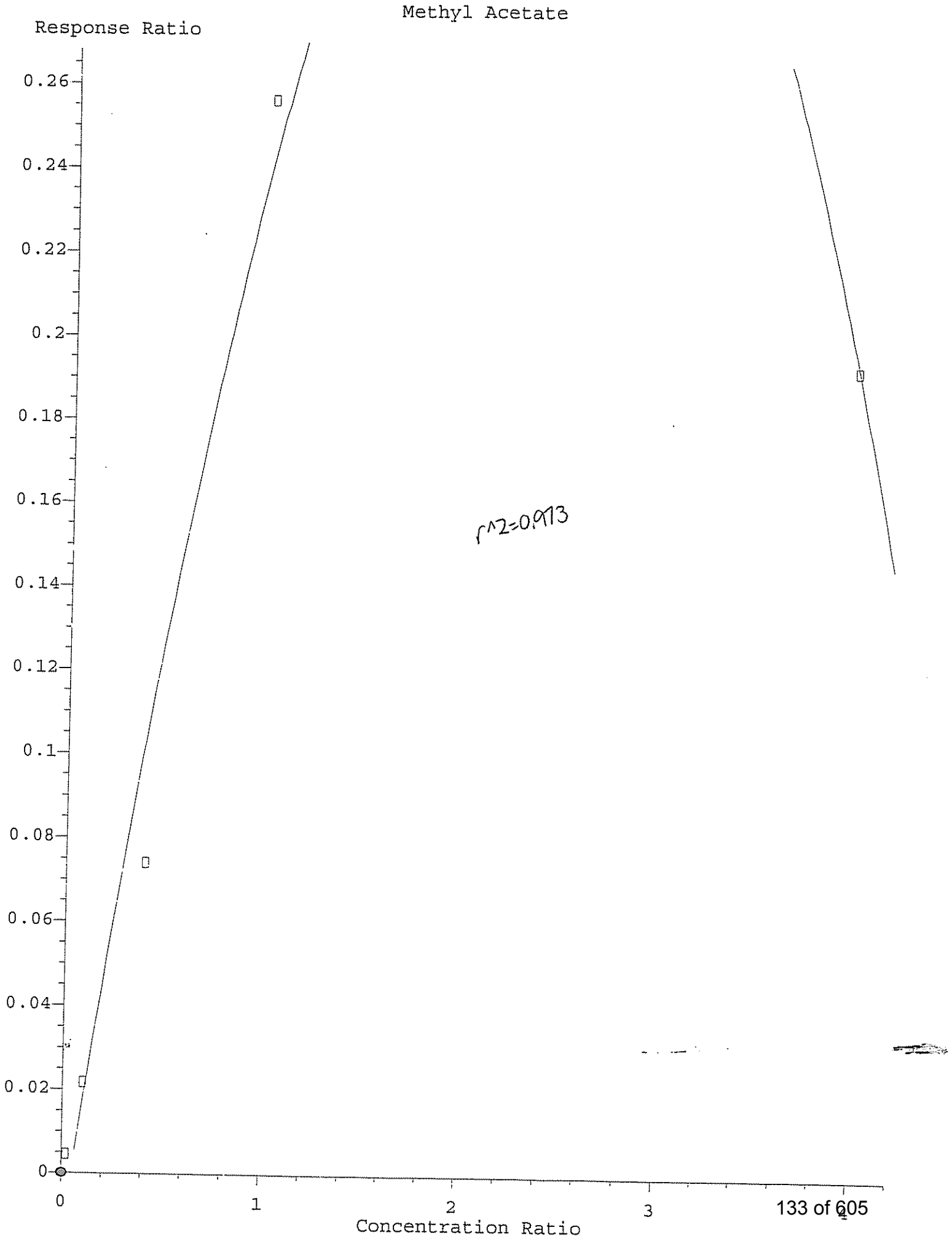

Bromomethane
Response Ratio
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.5
1
1.5
Concentration Ratio
r^2=0.995

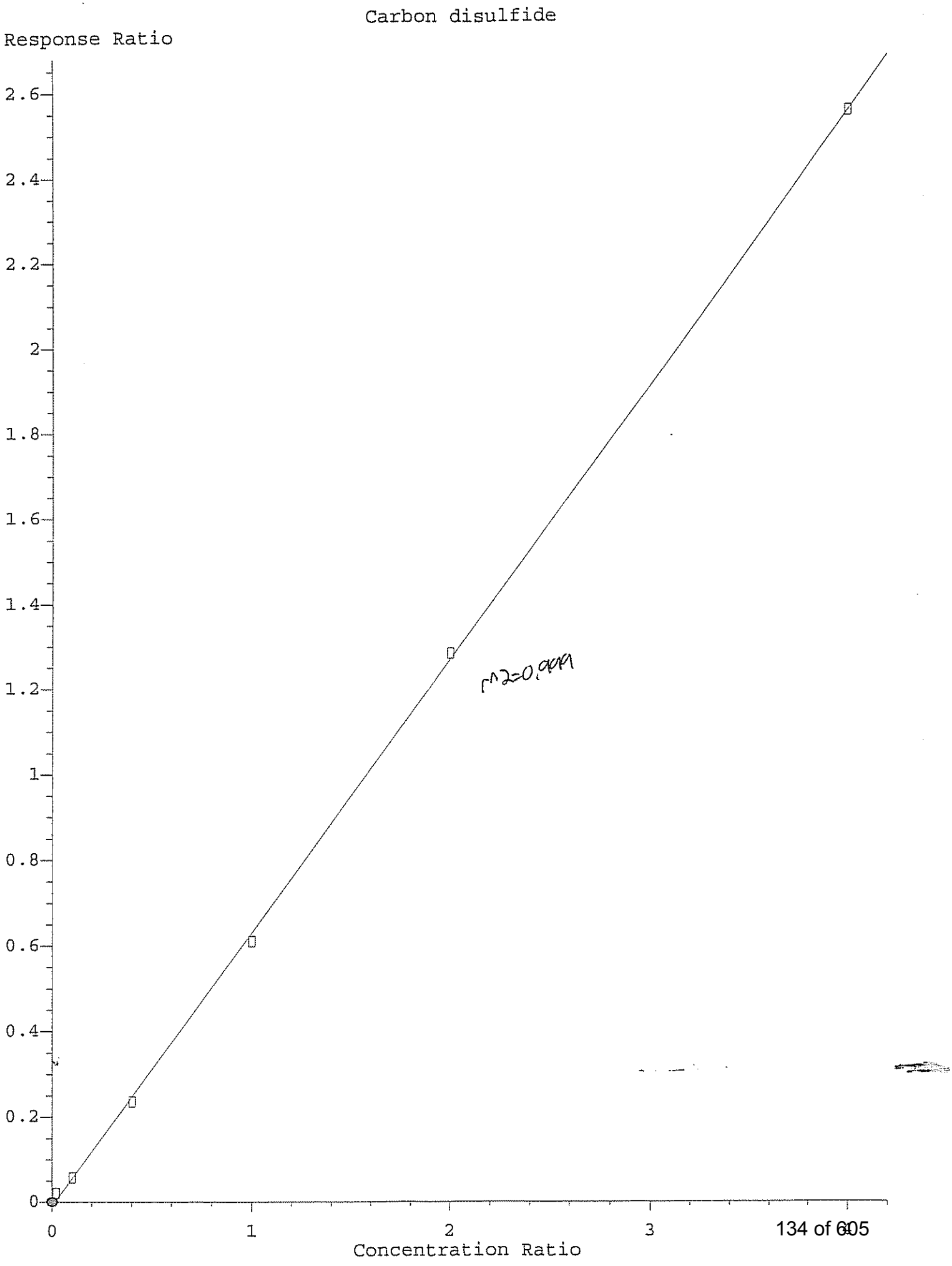

Trichlorofluoromethane
Response Ratio
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
r^2=0.999
0
0.5
1
1.5
Concentration Ratio

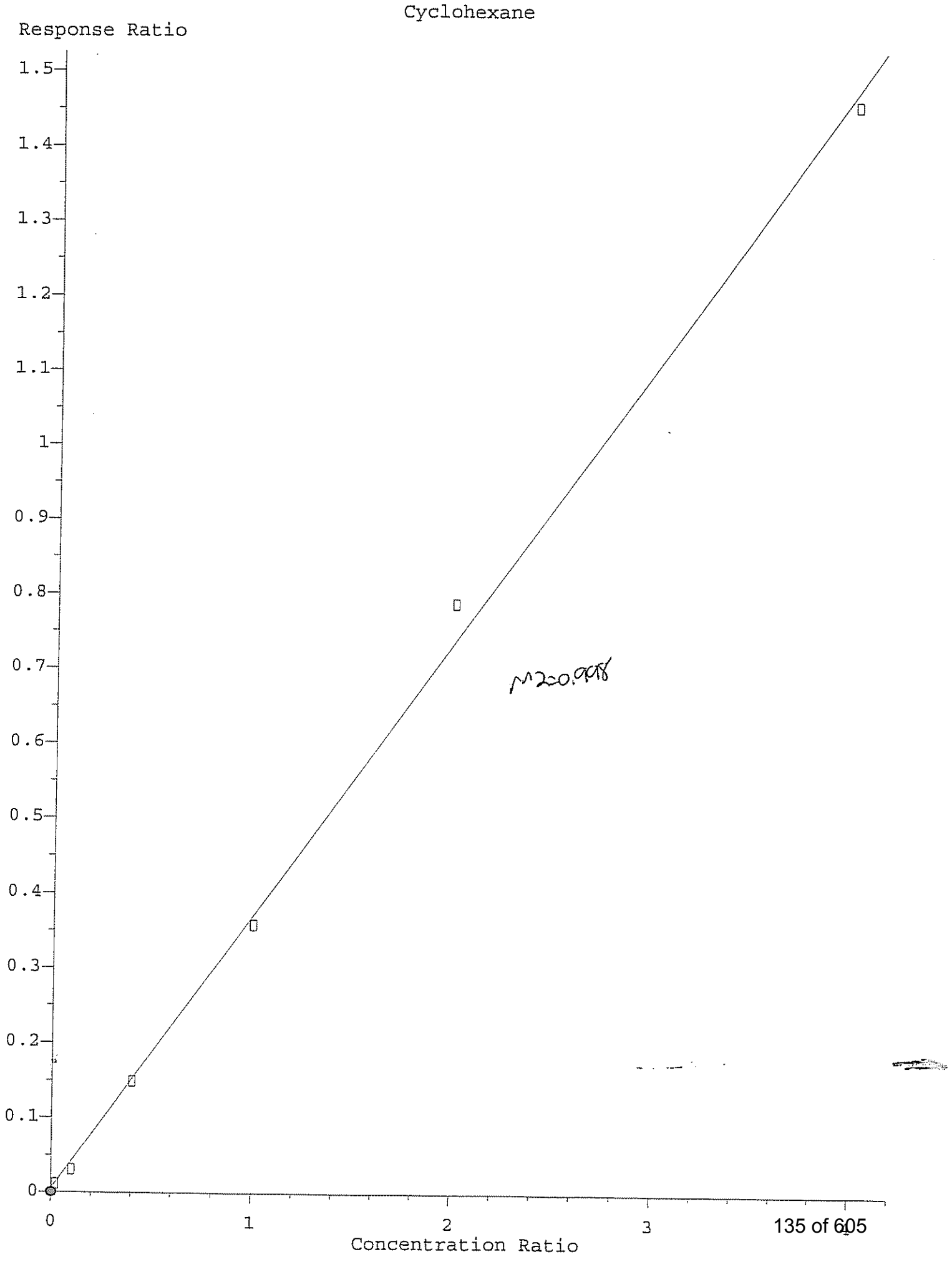

Acetonitrile
Response Ratio
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0
10
20
30
40
Concentration Ratio
r^2=0.999

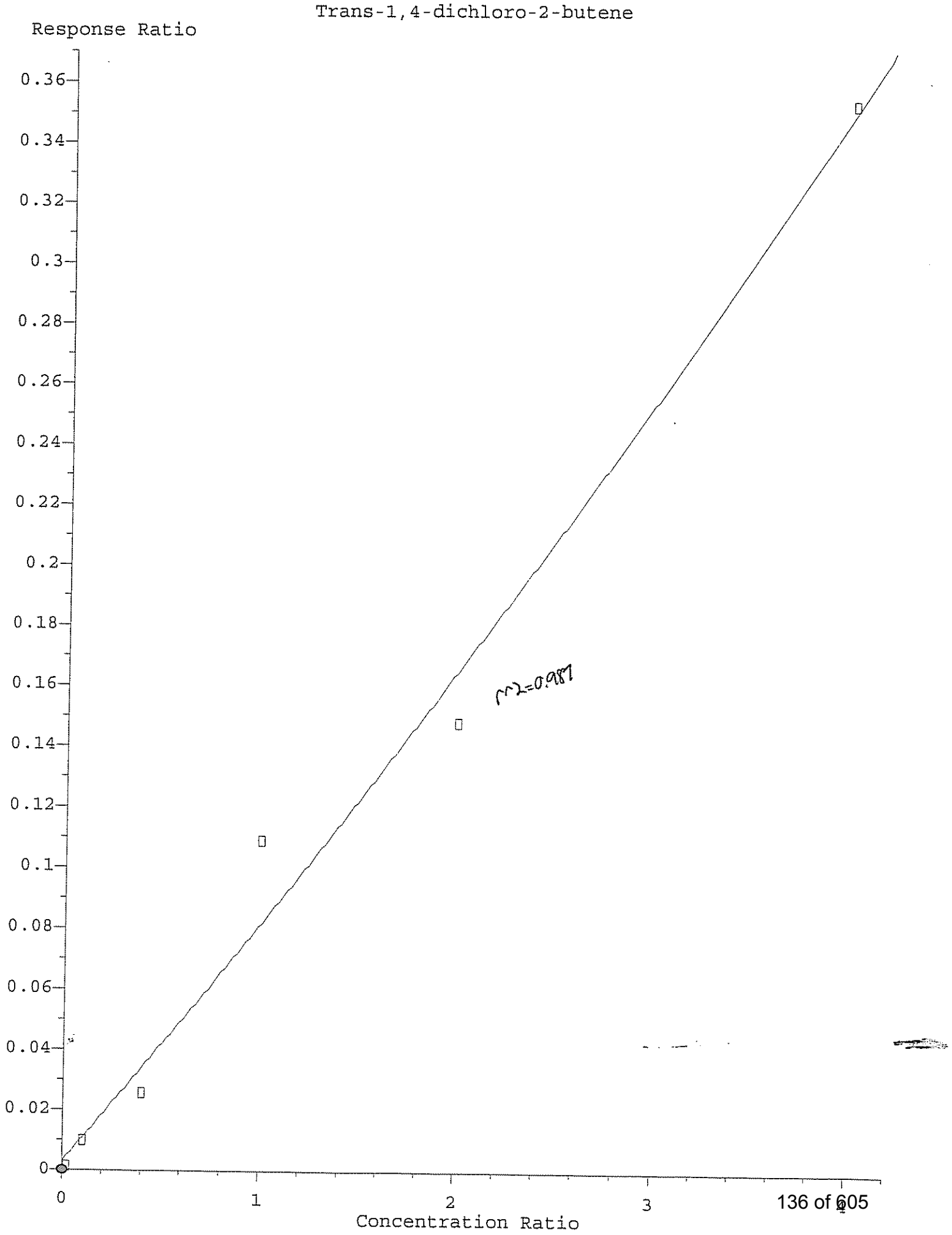

Methylene chloride
Response Ratio
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
r^2=0.999
0
1
2
3
Concentration Ratio


Acetone
Response Ratio
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
2
4
6
Concentration Ratio
r^2=0.999


Methyl Acetate
Response Ratio
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
r^2=0.9913
0
1
2
3
4
Concentration Ratio


Carbon disulfide
Response Ratio
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
r^2=0.999
0
1
2
3
Concentration Ratio


Cyclohexane
Response Ratio
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
1
2
3
Concentration Ratio
r^2=0.998


Trans-1,4-dichloro-2-butene
Response Ratio
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
1
2
3
Concentration Ratio
r^2=0.987

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	653851	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.682	114	545045	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	494605	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	168508	48.22	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.44%				
54) Toluene-d8	6.142	98	612948	48.25	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.50%				
76) 4-Bromofluorobenzene	8.881	95	231662	49.63	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.26%				
92) 1,2-Dichlorobenzene-d4	10.085	152	217113	47.01	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 94.02%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	879	0.72	ug/L		98
3) Chloromethane	1.317	50	2454m	1.09	ug/L		
4) Vinyl chloride	1.402	62	2881	1.08	ug/L	#	44
5) Bromomethane	1.622	94	2845m	2.42	ug/L		
6) Chloroethane	1.285	64	313549	165.07	ug/L	#	53
7) Trichlorofluoromethane	1.846	101	2014	0.55	ug/L		91
8) Ethyl Ether	2.050	59	2126	0.90	ug/L		96
9) Freon 113	2.184	101	2000	0.96	ug/L		92
10) Acrolein	2.189	56	2058	4.40	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	4154	14.85	ug/L	#	47
12) 1,1-Dichloroethene	2.210	96	2320	0.97	ug/L	#	69
13) Iodomethane	2.339	142	5982	2.82	ug/L		99
14) Acetonitrile	2.483	40	10288	6.90	ug/L	#	1
15) Methylene chloride	2.595	84	4904	1.65	ug/L		77
16) Trans-1,2-dichloroethene	2.756	96	2729	1.00	ug/L	#	61
17) Isopropyl ether	3.093	45	10388	0.97	ug/L		96
18) 1,1-Dichloroethane	3.114	63	4250	0.84	ug/L		94
19) Acetone	2.296	43	3961	3.63	ug/L		95
20) Methyl Acetate	4.259	43	2948	1.24	ug/L	#	100
21) MTBE	2.740	73	6186	0.84	ug/L		100
22) Carbon disulfide	2.360	76	13396	1.68	ug/L		100
24) Acrylonitrile	2.831	53	3734	4.51	ug/L		91
25) Chloroprene	3.146	53	4598	0.98	ug/L		92
26) n-Heptane	4.436	71	2999m	1.32	ug/L		
27) 2,2-Dichloropropane	3.548	77	3711	0.89	ug/L	#	40
28) Cis-1,2-dichloroethene	3.580	96	3658	1.13	ug/L	#	70

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	9570m	3.01 ug/L	
30) Propionitrile	3.735	54	3668	8.80 ug/L #	89
31) Bromochloromethane	3.783	128	1151	0.78 ug/L	98
32) Tetrahydrofuran	3.617	72	609	0.89 ug/L	85
33) Chloroform	3.837	83	6730	1.26 ug/L	95
34) Cyclohexane	3.938	56	7325	1.56 ug/L #	89
35) 1,1,1-Trichloroethane	3.960	97	3774	0.89 ug/L	87
36) Carbon tetrachloride	4.072	117	2845	0.77 ug/L	85
37) Methacrylonitrile	3.826	41	18476	8.37 ug/L #	37
38) Methylcyclohexane	4.997	83	4705	1.08 ug/L #	81
39) Isobutyl Alcohol	4.259	43	2948	14.35 ug/L	100
42) 2-Butanone	3.612	43	3280	1.82 ug/L	98
43) 1,1-Dichloropropene	4.099	75	2939	0.76 ug/L #	84
44) Vinyl Acetate	3.141	43	4019m	0.96 ug/L	
45) Benzene	4.286	78	10074	0.85 ug/L	100
46) 1,2-Dichloroethane	4.377	62	3017	0.81 ug/L #	80
47) Trichloroethene	4.885	95	2932	0.99 ug/L	86
48) 1,2-Dichloropropane	5.169	63	2461	0.81 ug/L	97
49) Methyl methacrylate	5.270	69	2343	1.12 ug/L	80
50) Dibromomethane	5.281	93	1866	1.03 ug/L	92
51) Bromodichloromethane	5.431	83	3684	0.95 ug/L #	99
52) 2-Chloroethylvinyl ether	5.779	63	1158	0.86 ug/L #	80
53) Cis-1,3-dichloropropene	5.918	75	3707	0.76 ug/L	93
55) Toluene	6.217	92	6417	0.82 ug/L	97
56) Trans-1,3-dichloropropene	6.570	75	2980	0.66 ug/L #	89
57) Ethyl methacrylate	6.618	69	3778	1.00 ug/L	96
58) 1,1,2-Trichloroethane	6.774	83	1999	0.86 ug/L	93
60) 4-Methyl-2-pentanone	6.099	43	5390	1.84 ug/L #	85
61) 2-Hexanone	7.068	43	3471	1.61 ug/L	98
62) Tetrachloroethene	6.790	166	2253	0.76 ug/L	97
63) 1,3-Dichloropropane	6.977	76	3571	0.85 ug/L	97
64) Dibromochloromethane	7.185	129	2423	0.78 ug/L	88
65) 1,2-Dibromoethane	7.319	107	2434	0.95 ug/L	89
66) 1-Chlorohexane	7.790	91	4651	1.11 ug/L #	30
67) Chlorobenzene	7.811	112	7395	0.86 ug/L	93
68) 1,1,1,2-Tetrachloroethane	7.908	131	2449	0.79 ug/L #	18
69) Ethylbenzene	7.897	91	13042	0.89 ug/L	96
70) m,p-Xylene	8.020	106	10091	1.74 ug/L	92
71) o-Xylene	8.395	106	5451	0.95 ug/L	83
72) Xylene (Total)	8.020	106	15541m	2.63 ug/L	
73) Styrene	8.421	104	8177	0.84 ug/L	96
74) Bromoform	8.598	173	1471	0.77 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration

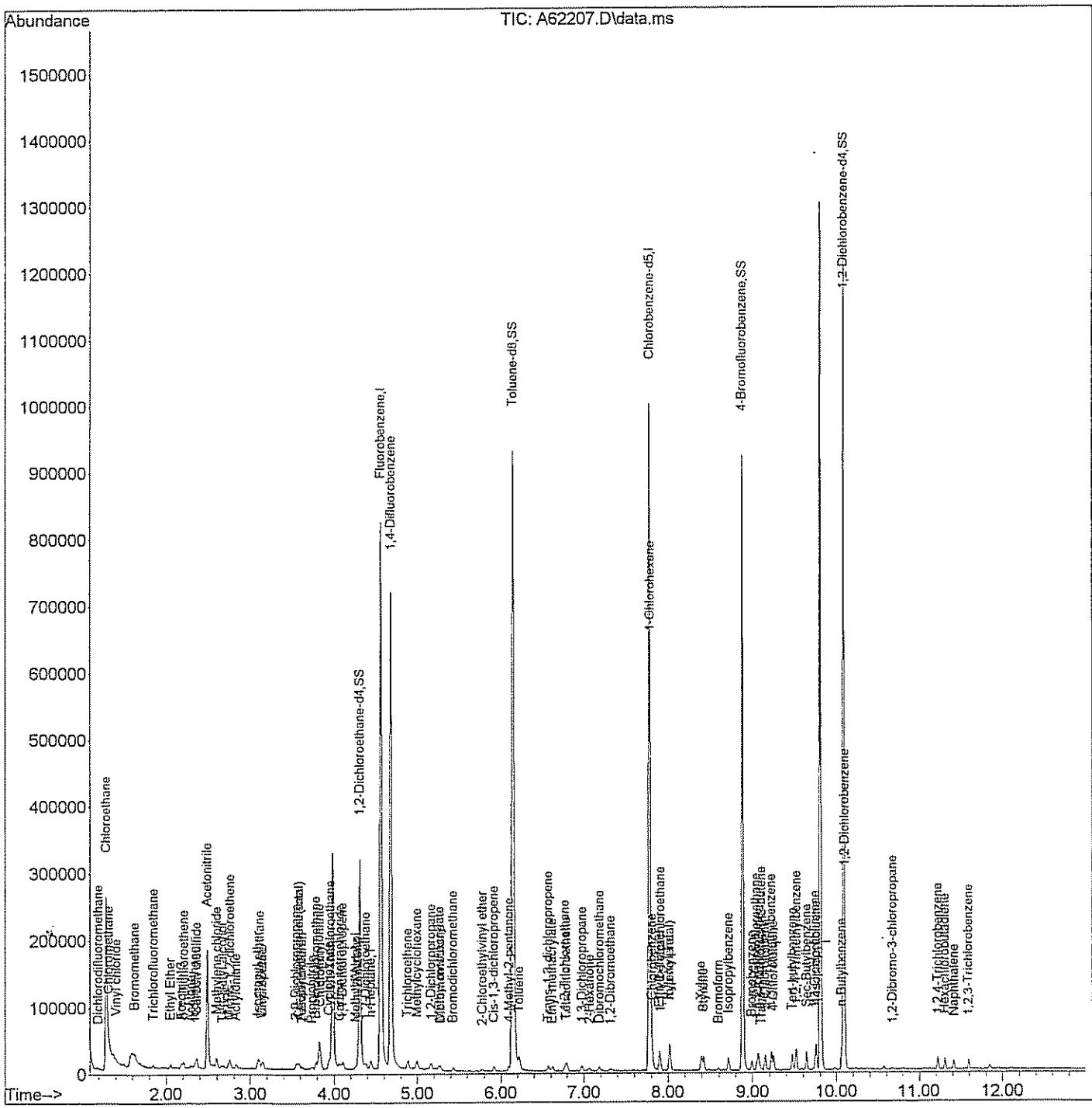
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.716	105	10411	0.83 ug/L	99
77) Bromobenzene	8.994	156	2968	0.87 ug/L	95
78) 1,1,2,2-Tetrachloroethane	9.047	83	3138m	0.95 ug/L	
79) 1,2,3-Trichloropropane	9.085	110	898	0.91 ug/L #	82
80) n-Propylbenzene	9.069	91	15058	0.88 ug/L	100
81) Trans-1,4-dichloro-2-b...	9.106	53	656	0.72 ug/L #	23
82) 2-Chlorotoluene	9.149	126	3342	0.93 ug/L	87
83) 4-Chlorotoluene	9.245	126	3499	0.93 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	10102	0.82 ug/L	92
85) Tert-butylbenzene	9.470	119	8456	0.79 ug/L	94
87) 1,2,4-Trimethylbenzene	9.518	105	10397	0.81 ug/L	92
88) Sec-Butylbenzene	9.641	105	13481	0.82 ug/L	100
89) 1,3-Dichlorobenzene	9.743	146	5746	0.80 ug/L	94
90) 4-Isopropyltoluene	9.759	119	11496	0.82 ug/L	95
91) 1,4-Dichlorobenzene	9.743	146	5746	0.79 ug/L	95
93) 1,2-Dichlorobenzene	10.101	146	6074m	0.89 ug/L	
94) n-Butylbenzene	10.058	91	12855	0.96 ug/L	100
95) 1,2-Dibromo-3-chloropr...	10.679	75	501	0.88 ug/L	95
96) 1,2,4-Trichlorobenzene	11.225	180	4004	0.99 ug/L	98
97) Hexachlorobutadiene	11.305	225	1901	1.01 ug/L	98
98) Naphthalene	11.412	128	8153	0.82 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	3193	0.93 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

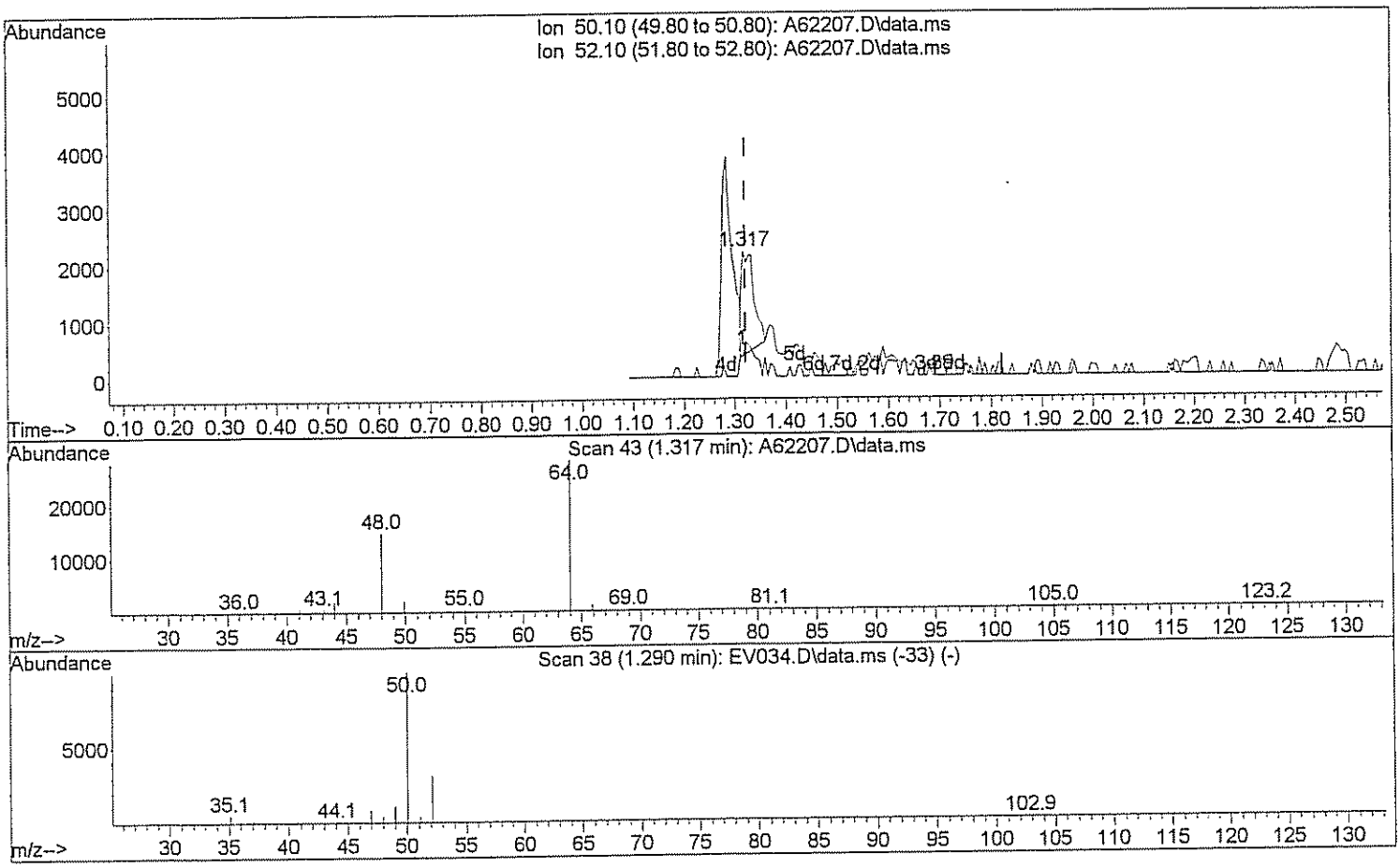
Quant Time: Mar 17 07:52:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(3) Chloromethane

1.317min (-0.005) 1.32 ug/L

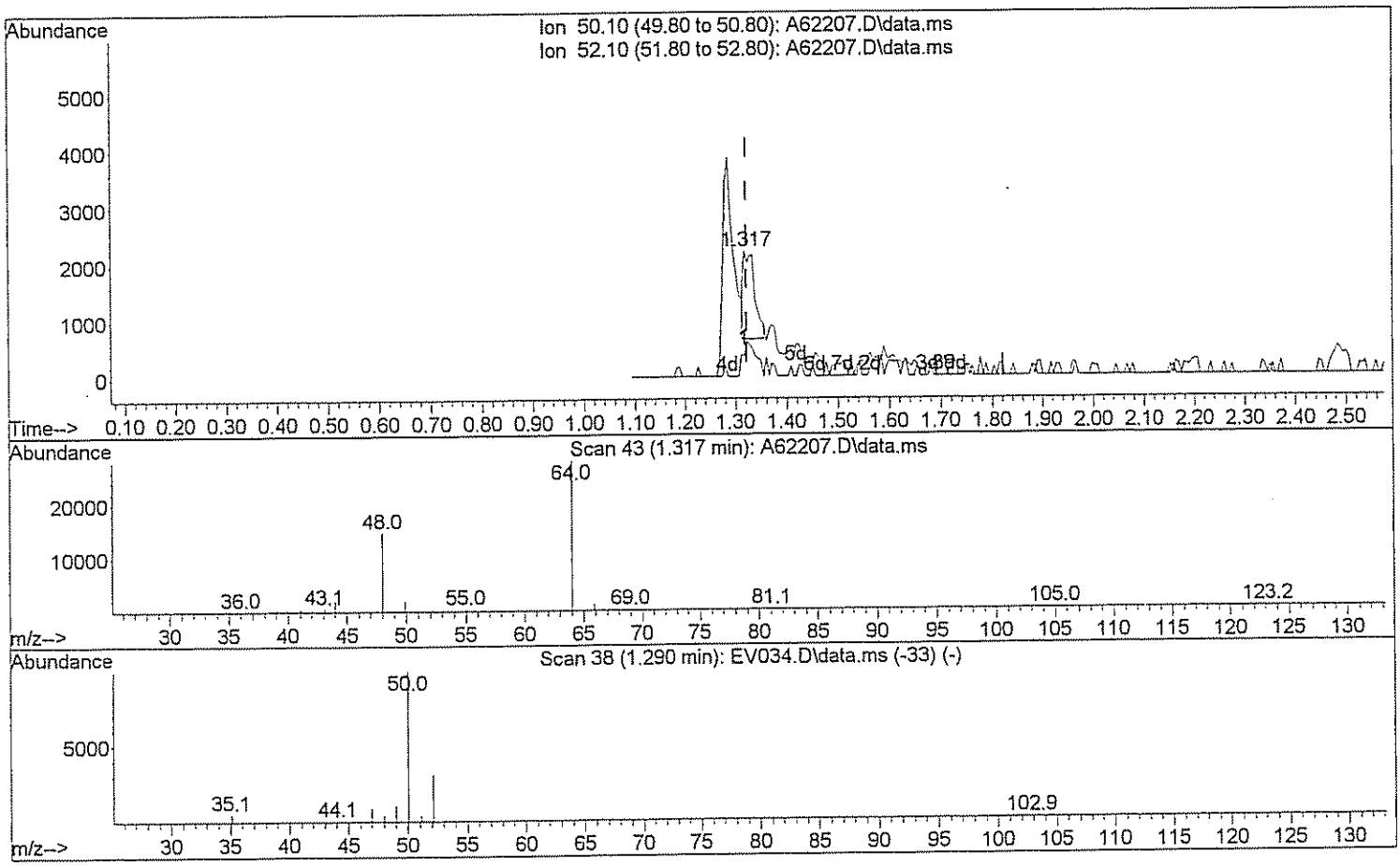
response 2970

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	35.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(3) Chloromethane

1.317min (-0.005) 1.09 ug/L m

3/17/09

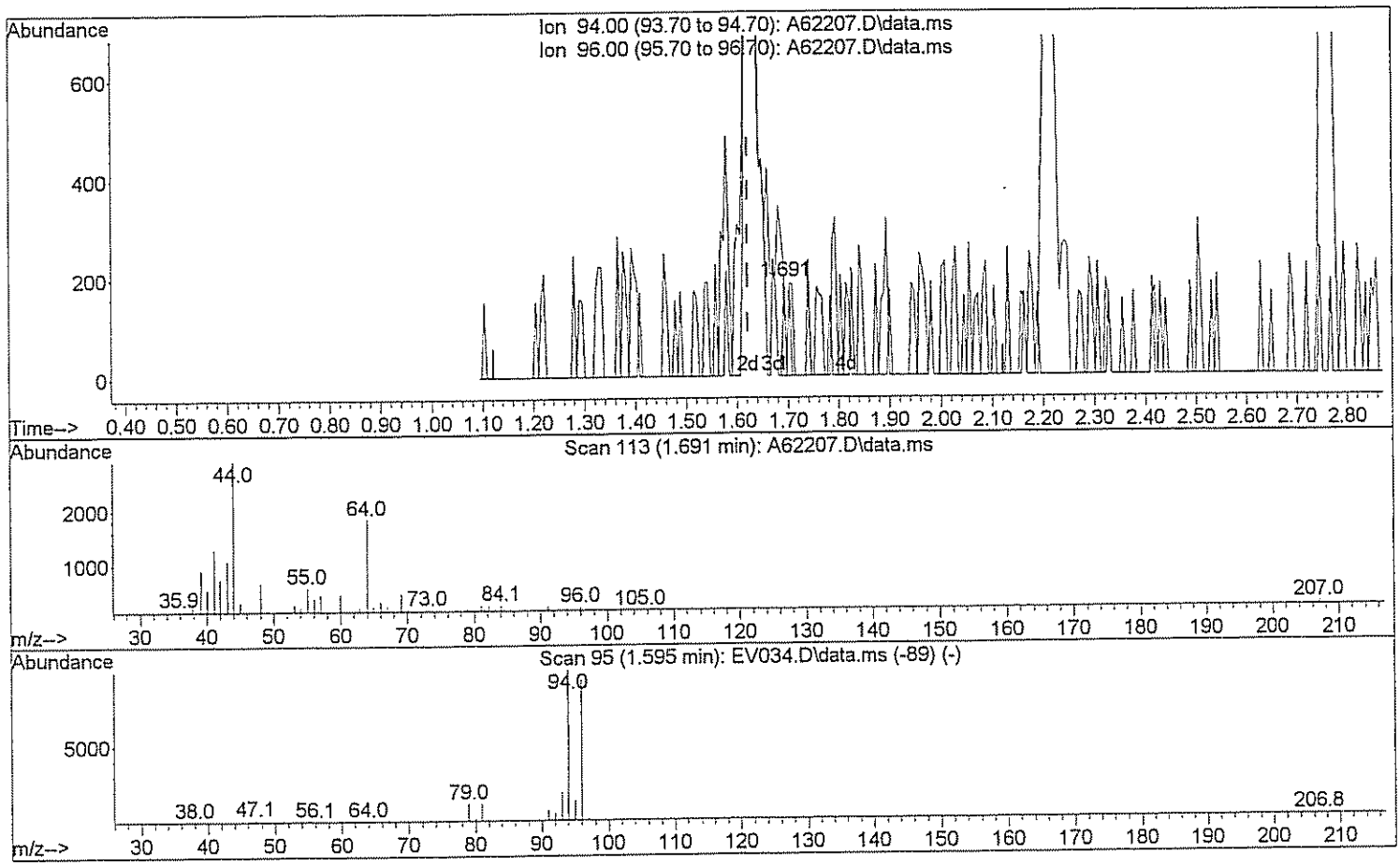
response 2454

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	43.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(5) Bromomethane

1.691min (+0.070) 0.10 ug/L

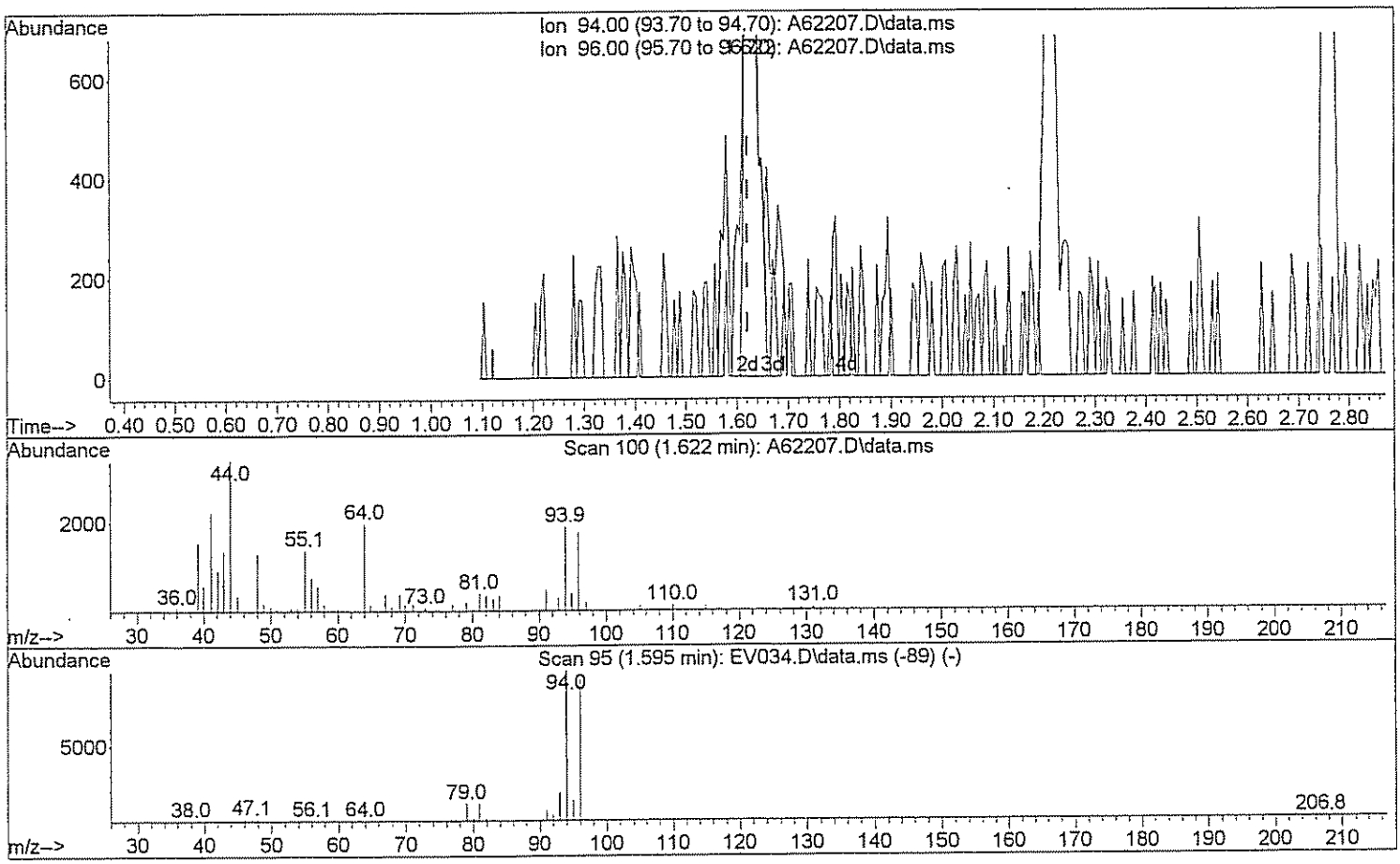
response 120

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	99.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(5) Bromomethane

1.622min (+0.000) 2.42 ug/L m DW 3/17/09

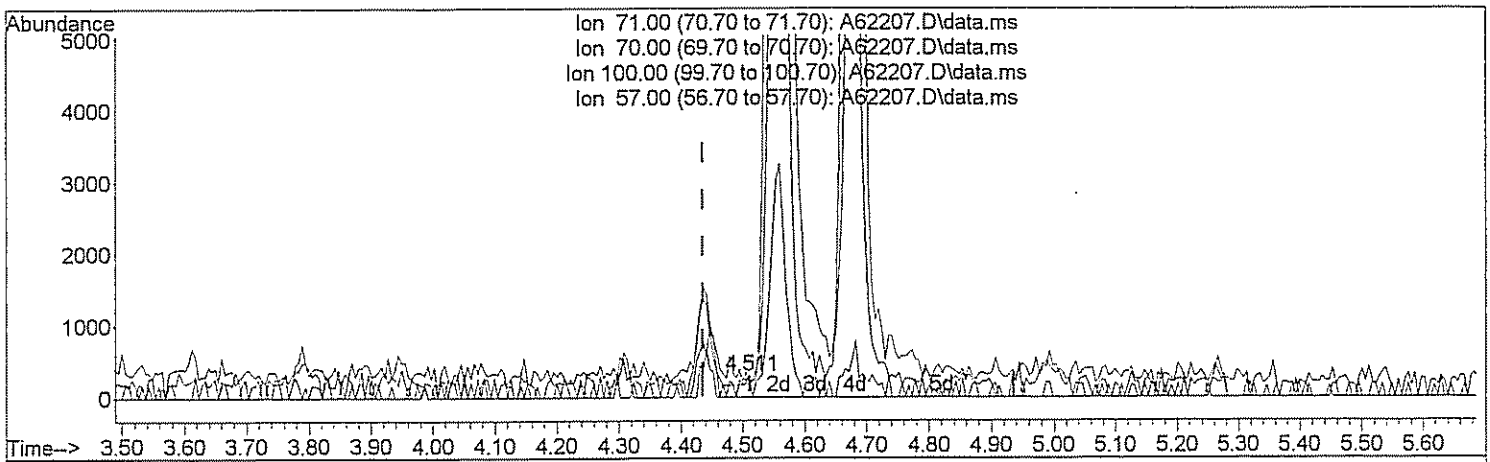
response 2845

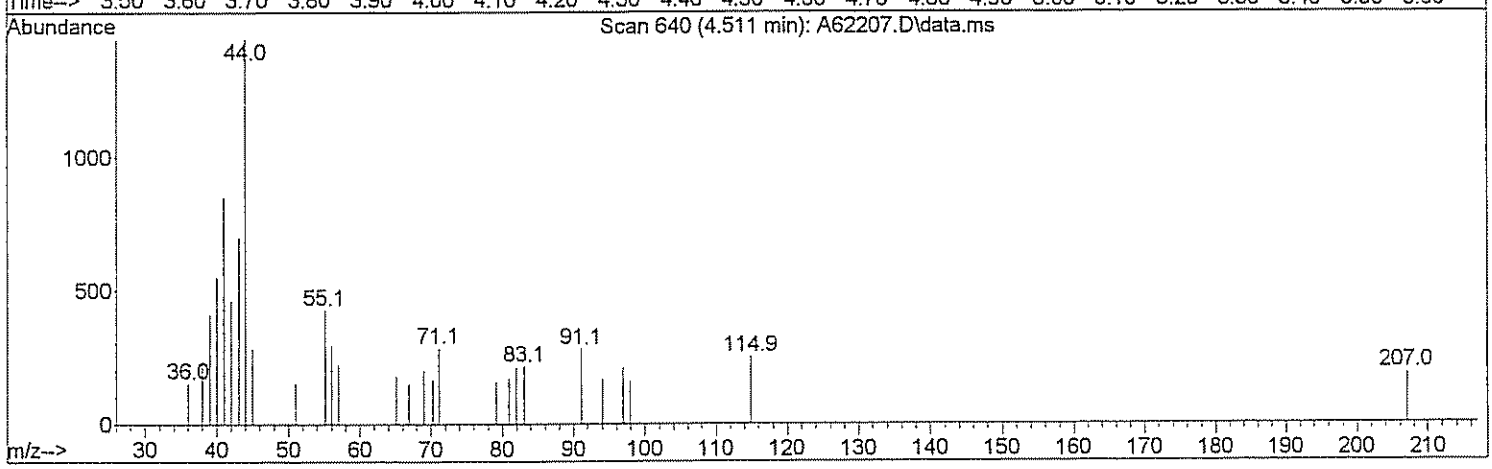
Ion	Exp%	Act%
94.00	100	100
96.00	90.70	4.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration





TIC: A62207.D\data.ms

(26) n-Heptane (T)

4.511min (+0.075) 0.13 ug/L

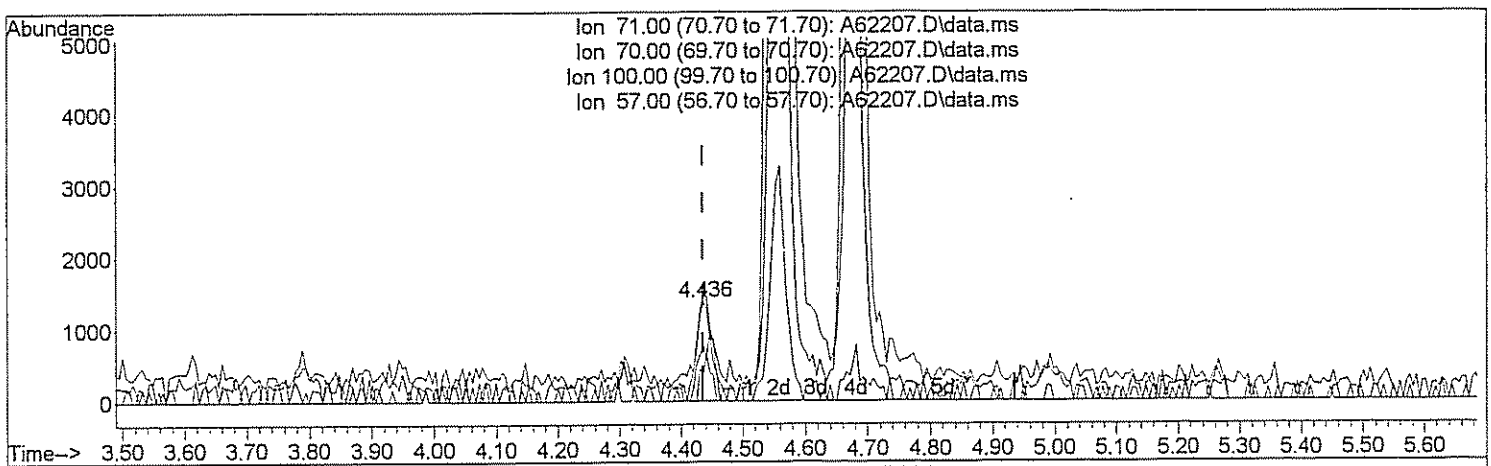
response 287

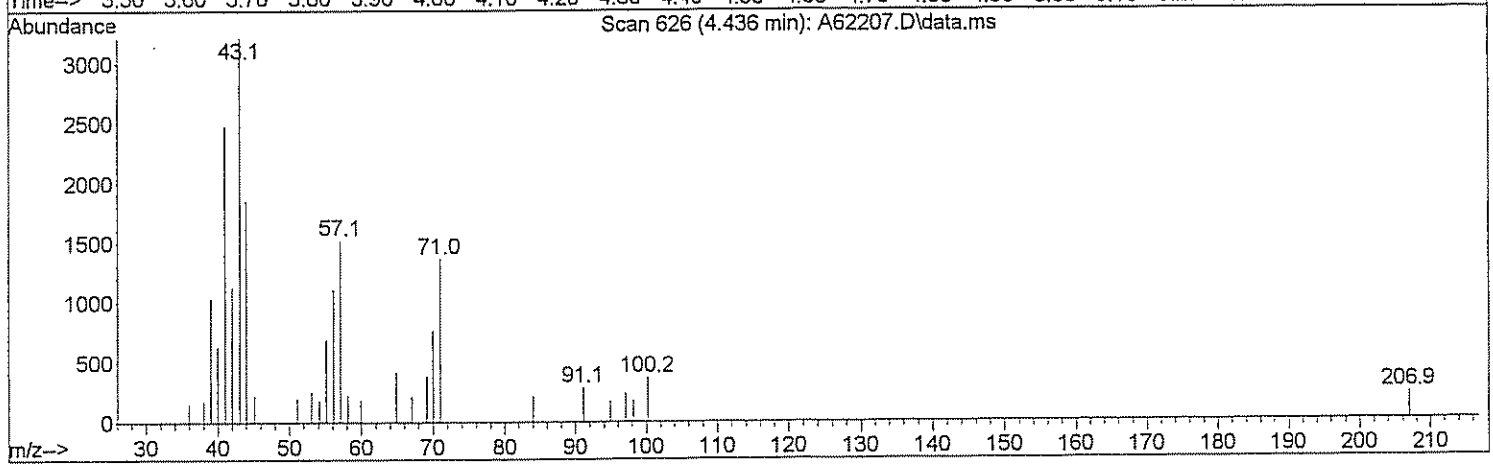
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	62.00	0.00#
57.00	40.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration





TIC: A62207.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 1.32 ug/L m SW 3/17/09

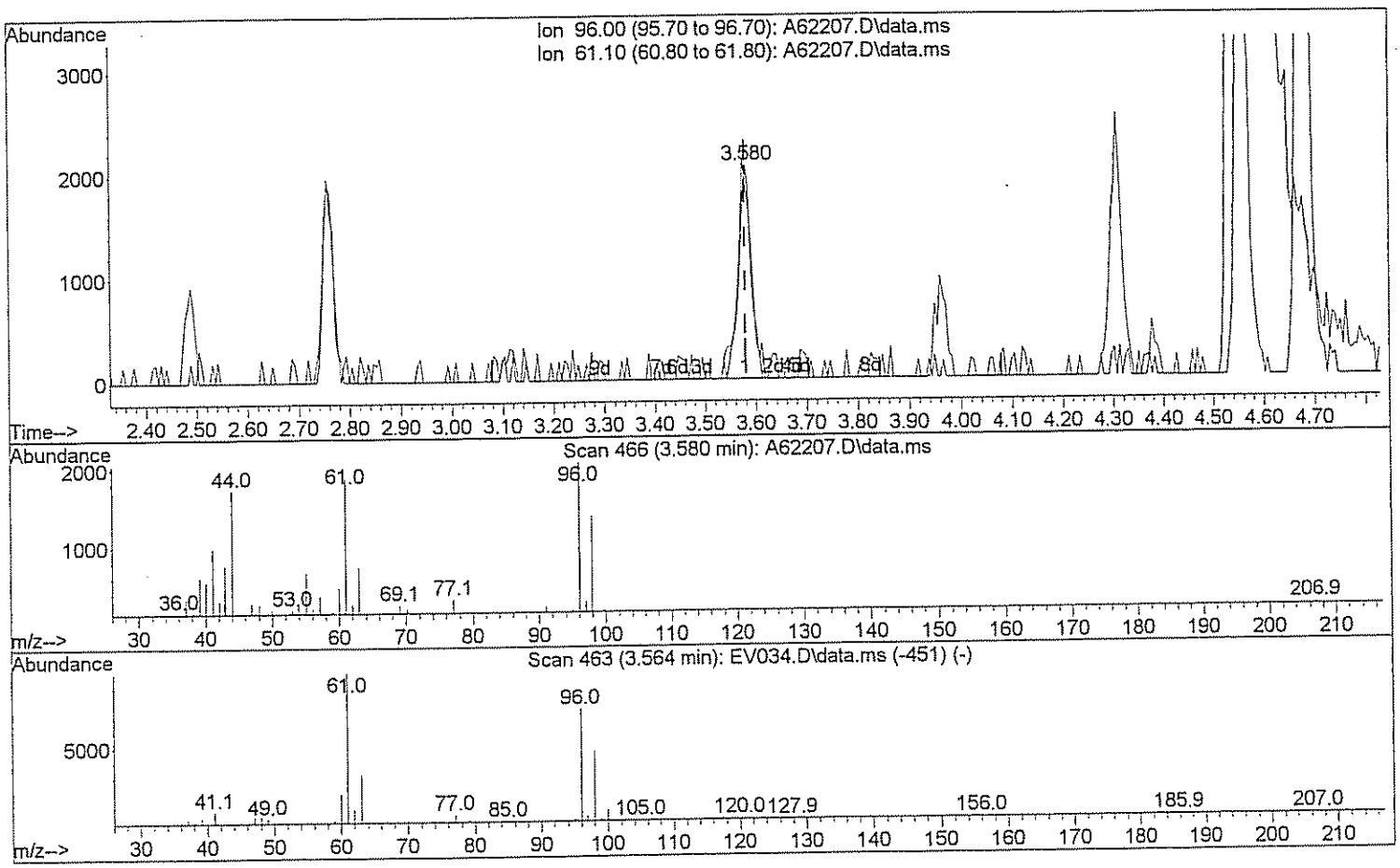
response 2999

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	0.00#
100.00	62.00	0.00#
57.00	40.00	0.00#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.000) 1.15 ug/L

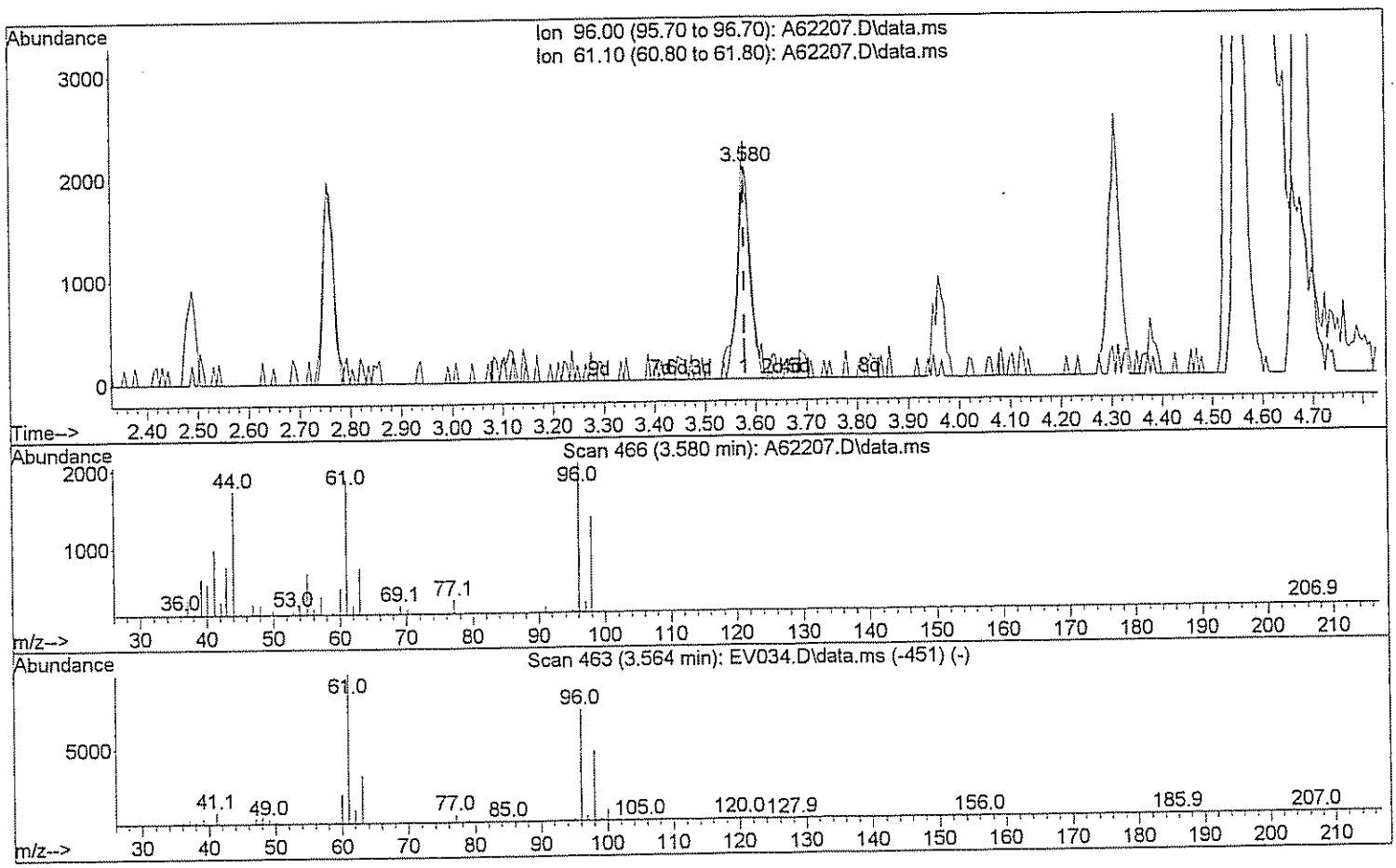
response 3658

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	106.40#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.000) 3.01 ug/L m

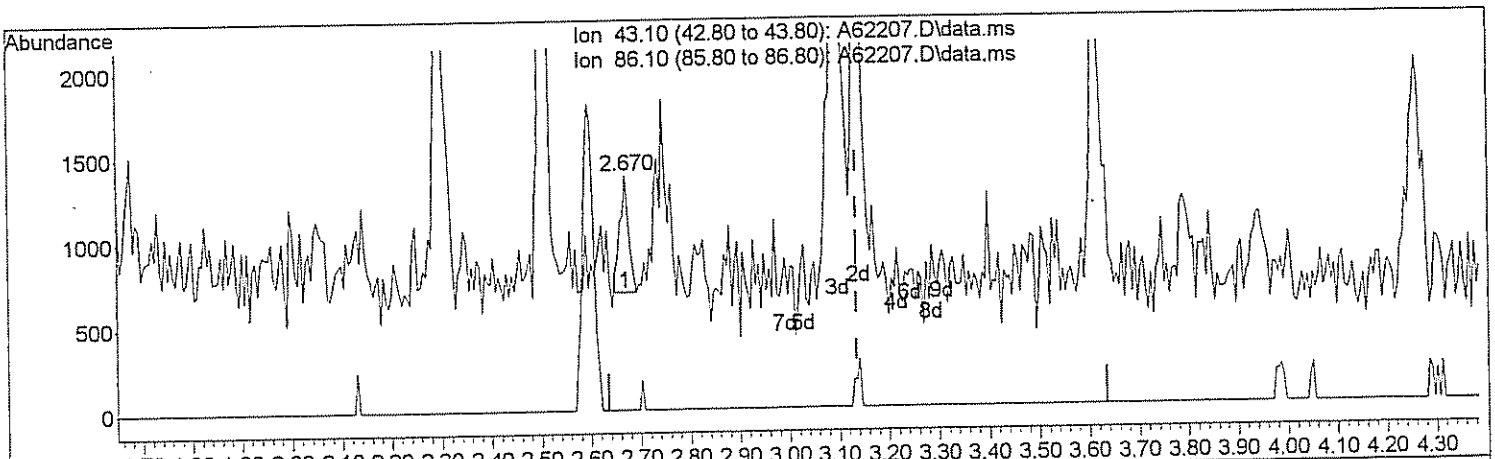
response 9570

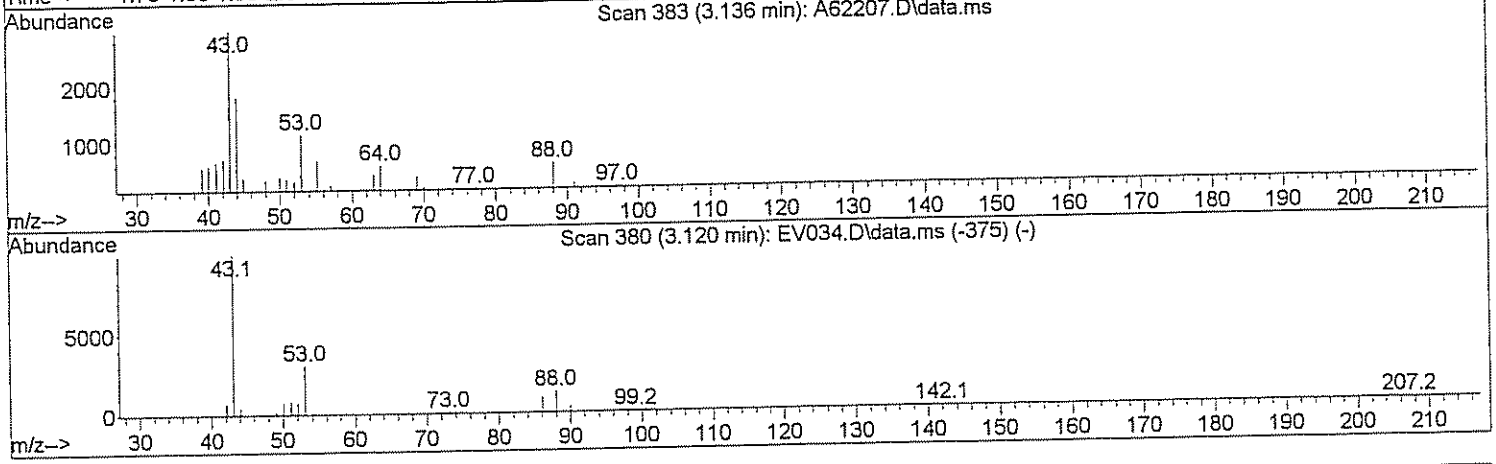
Ion	Exp%	Act%
96.00	100	100
61.10	143.80	40.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration





TIC: A62207.D\data.ms

(44) Vinyl Acetate

2.670min (-0.465) 0.20 ug/L

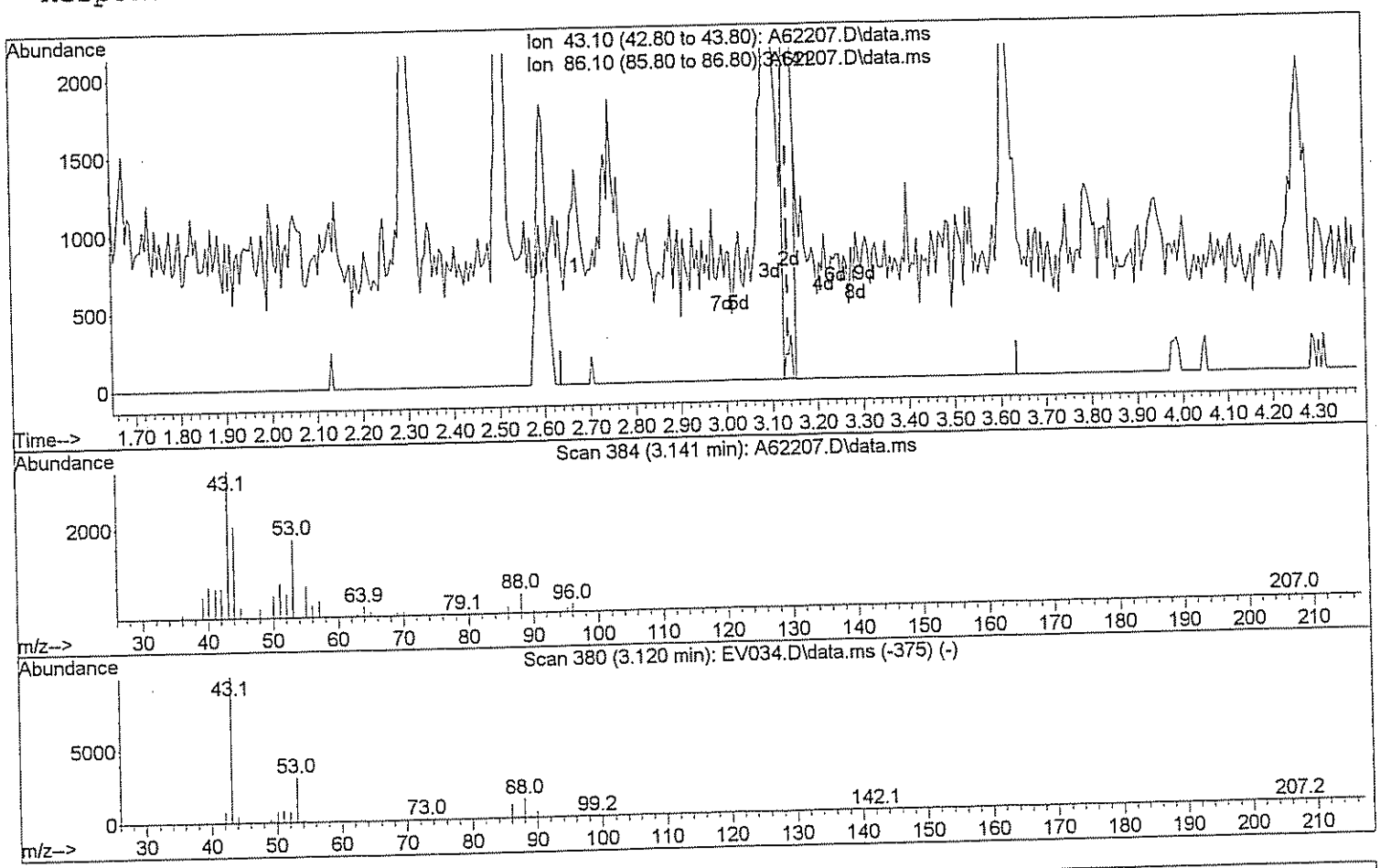
response 826

Ion	Exp%	Act%
43.10	100	100
86.10	8.20	6.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(44) Vinyl Acetate

3.141min (+0.005) 0.96 ug/L m DW 3/17/09

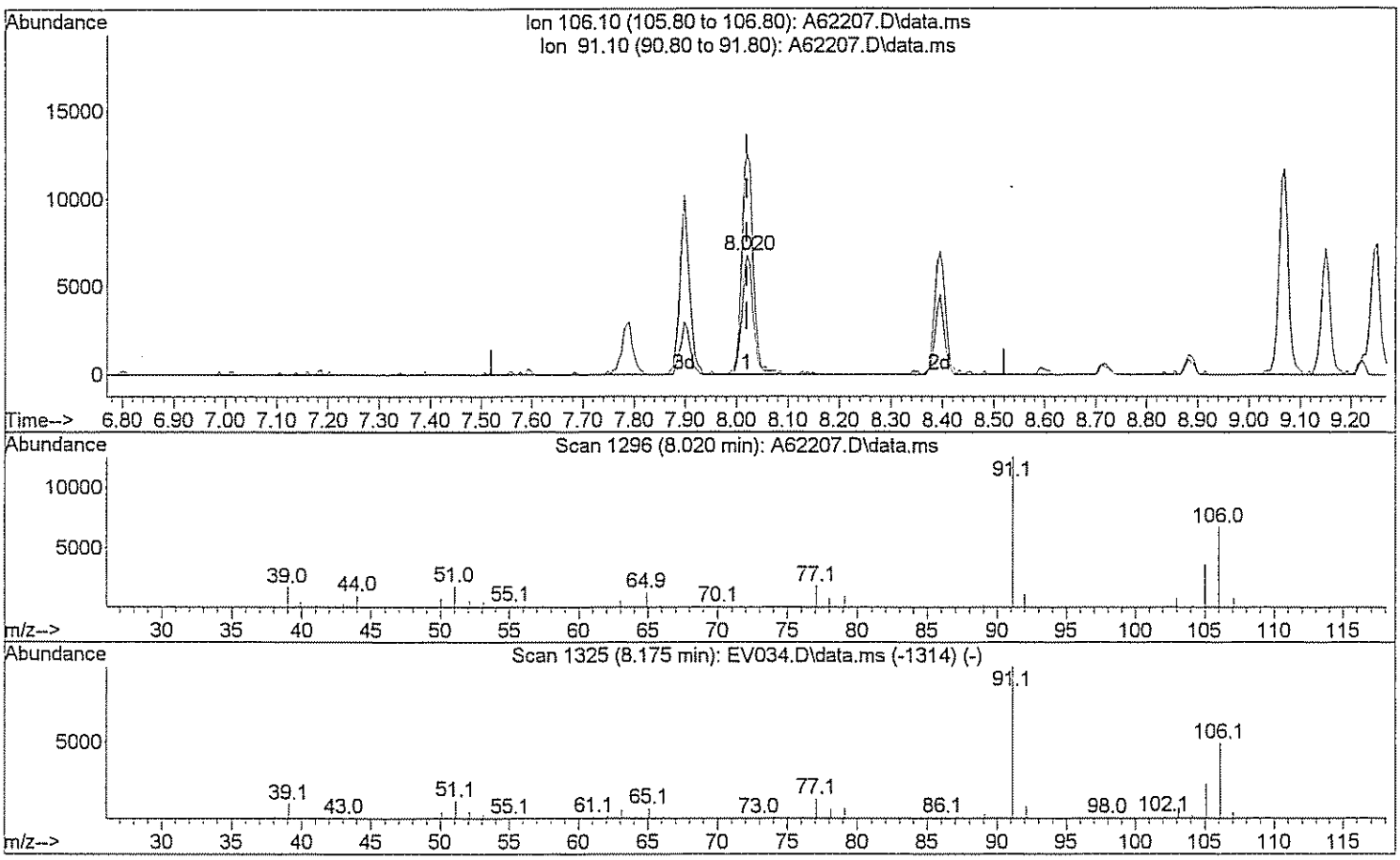
response 4019

Ion	Exp%	Act%
43.10	100	100
86.10	8.20	1.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 1.71 ug/L

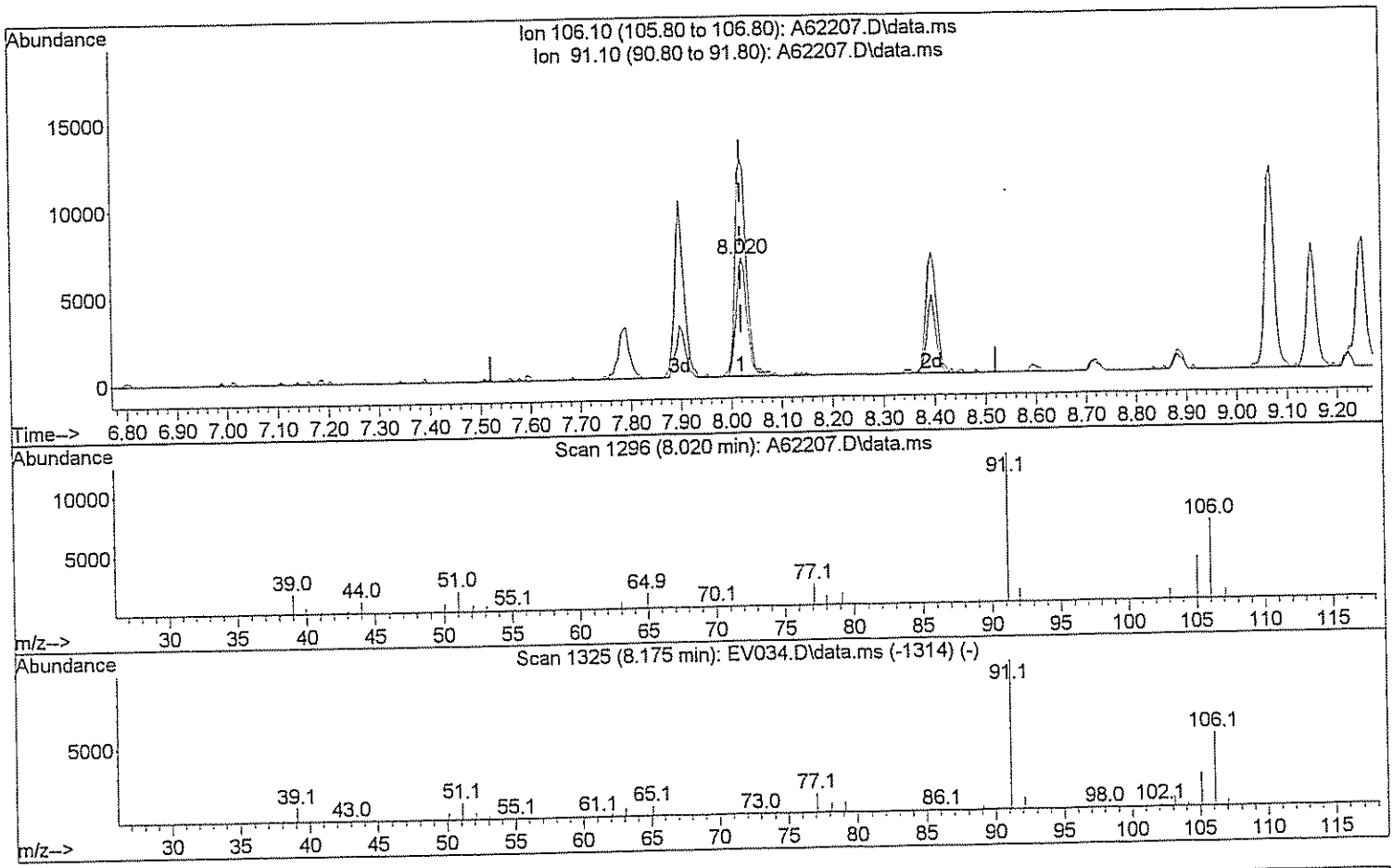
response 10091

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 2.63 ug/L m DW 3/17/09

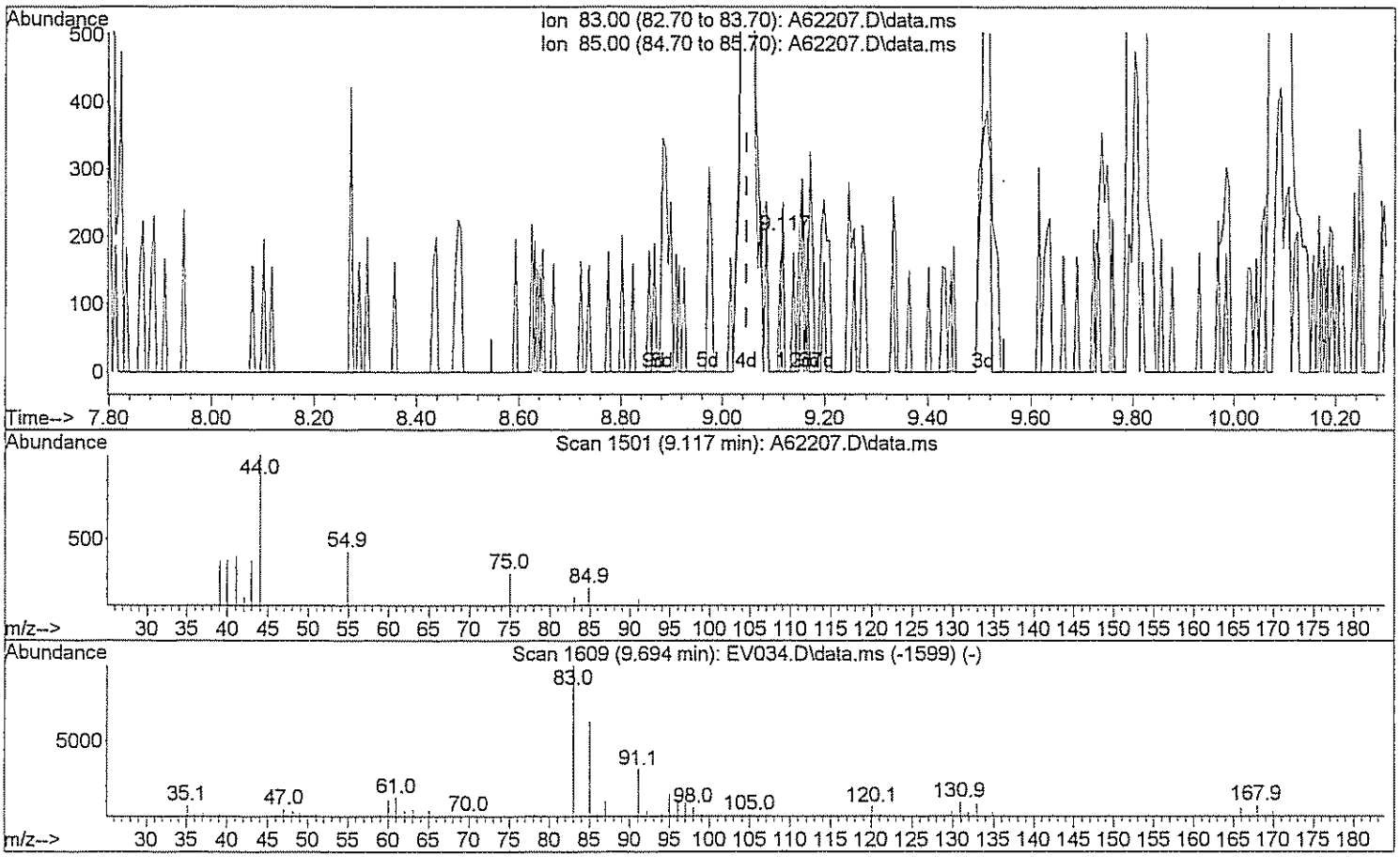
response 15541

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.94#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(78) 1,1,2,2-Tetrachloroethane

9.117min (+0.070) 0.03 ug/L

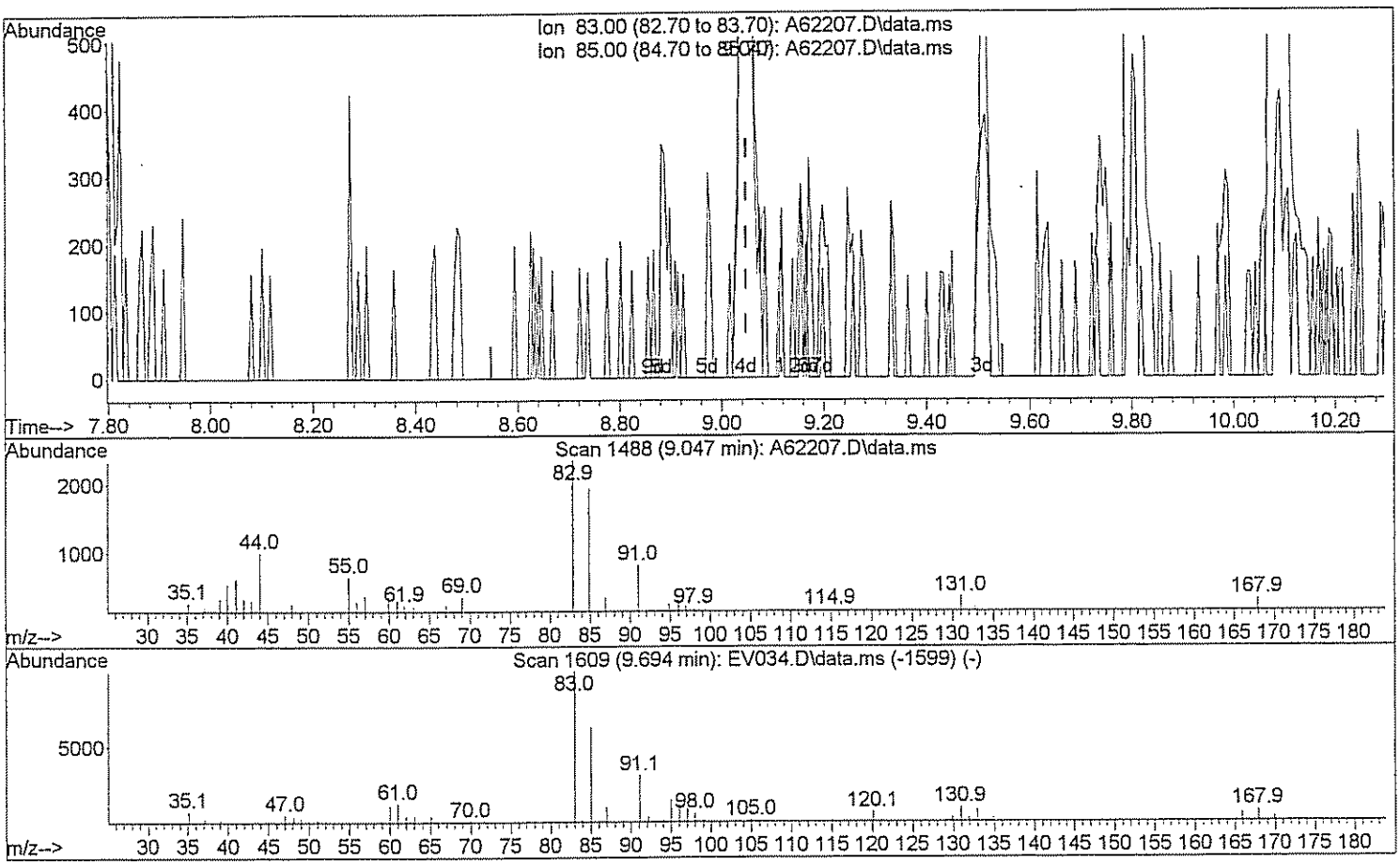
response 114

Ion	Exp%	Act%
83.00	100	100
85.00	62.40	71.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(78) 1,1,2,2-Tetrachloroethane

9.047min (+0.000) 0.95 ug/L m

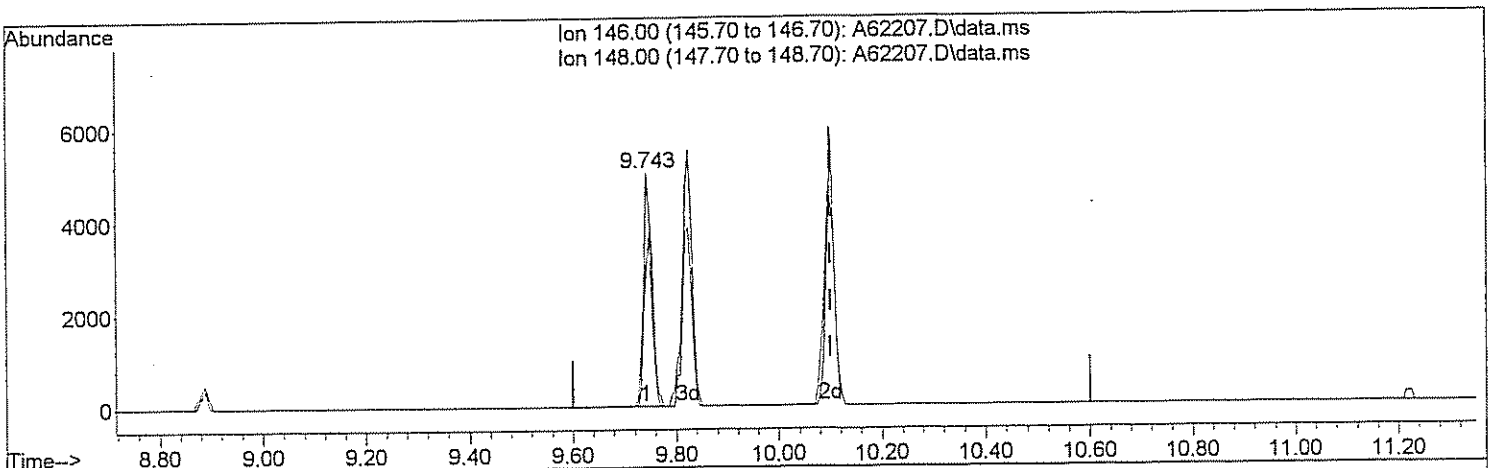
response 3138

Ion	Exp%	Act%
83.00	100	100
85.00	62.40	2.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(93) 1,2-Dichlorobenzene

9.743min (-0.358) 0.84 ug/L

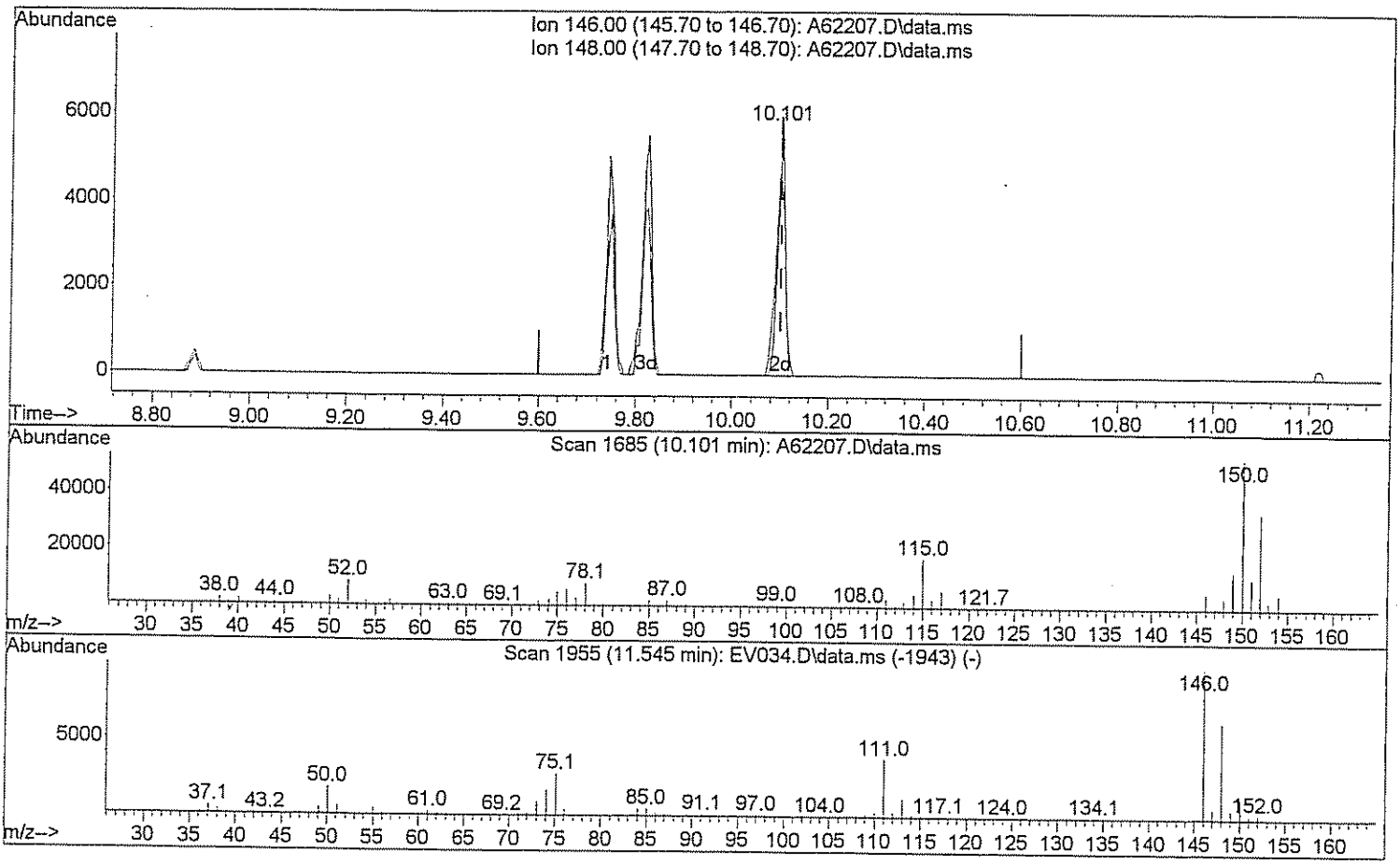
response 5746

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	68.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62207.D
Acq On : 10 Mar 2009 8:49
Operator : SM
Sample : CAL01
Misc : CAL01
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 07:48:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:47:28 2009
Response via : Initial Calibration



TIC: A62207.D\data.ms

(93) 1,2-Dichlorobenzene

10.101min (+0.000) 0.89 ug/L m SmJ 3/17/09

response 6074

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	64.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	620821	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	510609	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	461433	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	162435	48.71	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.42%				
54) Toluene-d8	6.142	98	578385	48.26	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.52%				
76) 4-Bromofluorobenzene	8.881	95	215086	49.24	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.48%				
92) 1,2-Dichlorobenzene-d4	10.085	152	202987	46.44	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 92.88%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	5296	4.41	ug/L		95
3) Chloromethane	1.322	50	11263	5.36	ug/L	#	63
4) Vinyl chloride	1.392	62	11774	4.56	ug/L	#	46
5) Bromomethane	1.622	94	4253m	3.53	ug/L		
6) Chloroethane	1.686	64	8923m	4.93	ug/L		
7) Trichlorofluoromethane	1.841	101	15209	4.18	ug/L		99
8) Ethyl Ether	2.044	59	9718	4.19	ug/L		90
9) Freon 113	2.178	101	8353	4.01	ug/L		93
10) Acrolein	2.189	56	11354	25.72	ug/L	#	74
11) Tert-Butyl alcohol	2.665	59	25601	95.22	ug/L	#	47
12) 1,1-Dichloroethene	2.210	96	10037	4.31	ug/L		76
13) Iodomethane	2.333	142	6874	3.17	ug/L		97
14) Acetonitrile	2.483	40	46779	30.48	ug/L	#	1
15) Methylene chloride	2.590	84	13777	4.85	ug/L		96
16) Trans-1,2-dichloroethene	2.750	96	11537	4.30	ug/L		84
17) Isopropyl ether	3.088	45	44510	4.22	ug/L		100
18) 1,1-Dichloroethane	3.109	63	20739	4.14	ug/L		99
19) Acetone	2.296	43	10639	10.34	ug/L		96
20) Methyl Acetate	4.254	43	13443	6.38	ug/L	#	100
21) MTBE	2.734	73	31650	4.39	ug/L		100
22) Carbon disulfide	2.355	76	35249	4.58	ug/L		100
24) Acrylonitrile	2.831	53	18286	22.89	ug/L		93
25) Chloroprene	3.146	53	19767	4.32	ug/L		89
26) n-Heptane	4.436	71	9657m	4.38	ug/L		
27) 2,2-Dichloropropane	3.548	77	16666	3.98	ug/L	#	53
28) Cis-1,2-dichloroethene	3.580	96	13315	4.17	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	1,2-dichloroethene(total)	3.580	96	27425m	9.07	ug/L		
30)	Propionitrile	3.729	54	18264	45.27	ug/L		96
31)	Bromochloromethane	3.783	128	5626	3.80	ug/L		95
32)	Tetrahydrofuran	3.794	72	3012	4.56	ug/L	#	1
33)	Chloroform	3.836	83	21517	4.09	ug/L		97
34)	Cyclohexane	3.933	56	18757	4.06	ug/L	#	81
35)	1,1,1-Trichloroethane	3.960	97	17034	4.08	ug/L		94
36)	Carbon tetrachloride	4.061	117	14873	4.07	ug/L		98
37)	Methacrylonitrile	3.820	41	84193	38.28	ug/L	#	12
38)	Methylcyclohexane	4.987	83	18142	4.24	ug/L		95
39)	Isobutyl Alcohol	4.436	43	17978	89.80	ug/L		91
42)	2-Butanone	3.612	43	15533	9.00	ug/L		98
43)	1,1-Dichloropropene	4.099	75	15570	4.18	ug/L		100
44)	Vinyl Acetate	3.136	43	18207	4.53	ug/L		97
45)	Benzene	4.281	78	47600	4.15	ug/L		100
46)	1,2-Dichloroethane	4.371	62	15061m	4.16	ug/L		
47)	Trichloroethene	4.880	95	12390	4.34	ug/L		96
48)	1,2-Dichloropropane	5.158	63	11740	3.93	ug/L		98
49)	Methyl methacrylate	5.265	69	10447	5.39	ug/L		83
50)	Dibromomethane	5.276	93	7721	4.46	ug/L		99
51)	Bromodichloromethane	5.425	83	16101	4.29	ug/L		100
52)	2-Chloroethylvinyl ether	5.773	63	29297	24.02	ug/L		92
53)	Cis-1,3-dichloropropene	5.912	75	18450	3.79	ug/L		96
55)	Toluene	6.217	92	30564	4.02	ug/L		94
56)	Trans-1,3-dichloropropene	6.570	75	18138	4.09	ug/L		95
57)	Ethyl methacrylate	6.624	69	15501	4.24	ug/L		93
58)	1,1,2-Trichloroethane	6.768	83	9497	4.16	ug/L		97
60)	4-Methyl-2-pentanone	6.094	43	26186	9.51	ug/L	#	91
61)	2-Hexanone	7.062	43	20194	10.08	ug/L		95
62)	Tetrachloroethene	6.790	166	11834	4.12	ug/L		92
63)	1,3-Dichloropropane	6.966	76	18431	4.60	ug/L		96
64)	Dibromochloromethane	7.185	129	13422	4.58	ug/L		91
65)	1,2-Dibromoethane	7.319	107	11148	4.58	ug/L		99
66)	1-Chlorohexane	7.785	91	18454	4.64	ug/L		93
67)	Chlorobenzene	7.806	112	34730	4.20	ug/L		93
68)	1,1,1,2-Tetrachloroethane	7.908	131	11935	3.93	ug/L	#	13
69)	Ethylbenzene	7.897	91	59985	4.27	ug/L		99
70)	m,p-Xylene	8.020	106	47385	8.43	ug/L		90
71)	o-Xylene	8.394	106	23297	4.19	ug/L		92
72)	Xylene (Total)	8.020	106	70685m	12.36	ug/L		
73)	Styrene	8.421	104	39554	4.21	ug/L		98
74)	Bromoform	8.598	173	8081	4.40	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration

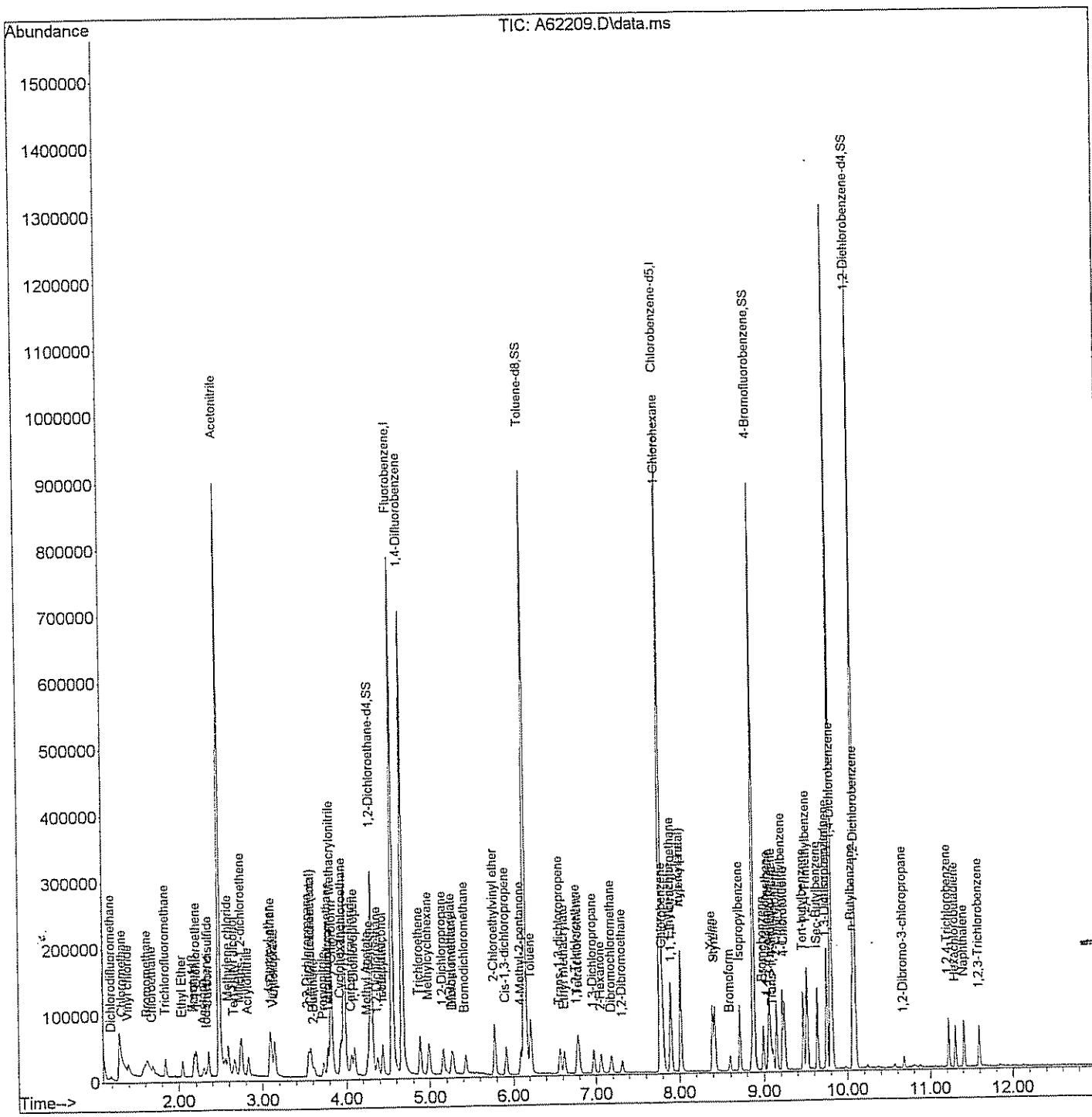
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	51123	4.25 ug/L	100
77) Bromobenzene	8.994	156	13648	4.16 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	14505	4.66 ug/L	95
79) 1,2,3-Trichloropropane	9.085	110	4733	5.19 ug/L	86
80) n-Propylbenzene	9.063	91	70946	4.31 ug/L	99
81) Trans-1,4-dichloro-2-b...	9.106	53	4560	5.46 ug/L #	25
82) 2-Chlorotoluene	9.149	126	14908	4.30 ug/L #	83
83) 4-Chlorotoluene	9.245	126	15465	4.31 ug/L	86
84) 1,3,5-Trimethylbenzene	9.224	105	48345	4.05 ug/L	98
85) Tert-butylbenzene	9.470	119	42422	4.07 ug/L	96
87) 1,2,4-Trimethylbenzene	9.518	105	50363	4.06 ug/L	94
88) Sec-Butylbenzene	9.641	105	63647	4.00 ug/L	98
89) 1,3-Dichlorobenzene	9.743	146	26904	3.80 ug/L	98
90) 4-Isopropyltoluene	9.753	119	54688	3.96 ug/L	98
91) 1,4-Dichlorobenzene	9.817	146	28782	4.10 ug/L	93
93) 1,2-Dichlorobenzene	10.101	146	25653	3.79 ug/L	86
94) n-Butylbenzene	10.058	91	54952	4.25 ug/L	98
95) 1,2-Dibromo-3-chloropr...	10.679	75	2578	4.80 ug/L	86
96) 1,2,4-Trichlorobenzene	11.219	180	15481	3.92 ug/L	97
97) Hexachlorobutadiene	11.305	225	6672	3.59 ug/L	100
98) Naphthalene	11.412	128	41431	4.35 ug/L	100
99) 1,2,3-Trichlorobenzene	11.599	180	13348	4.01 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

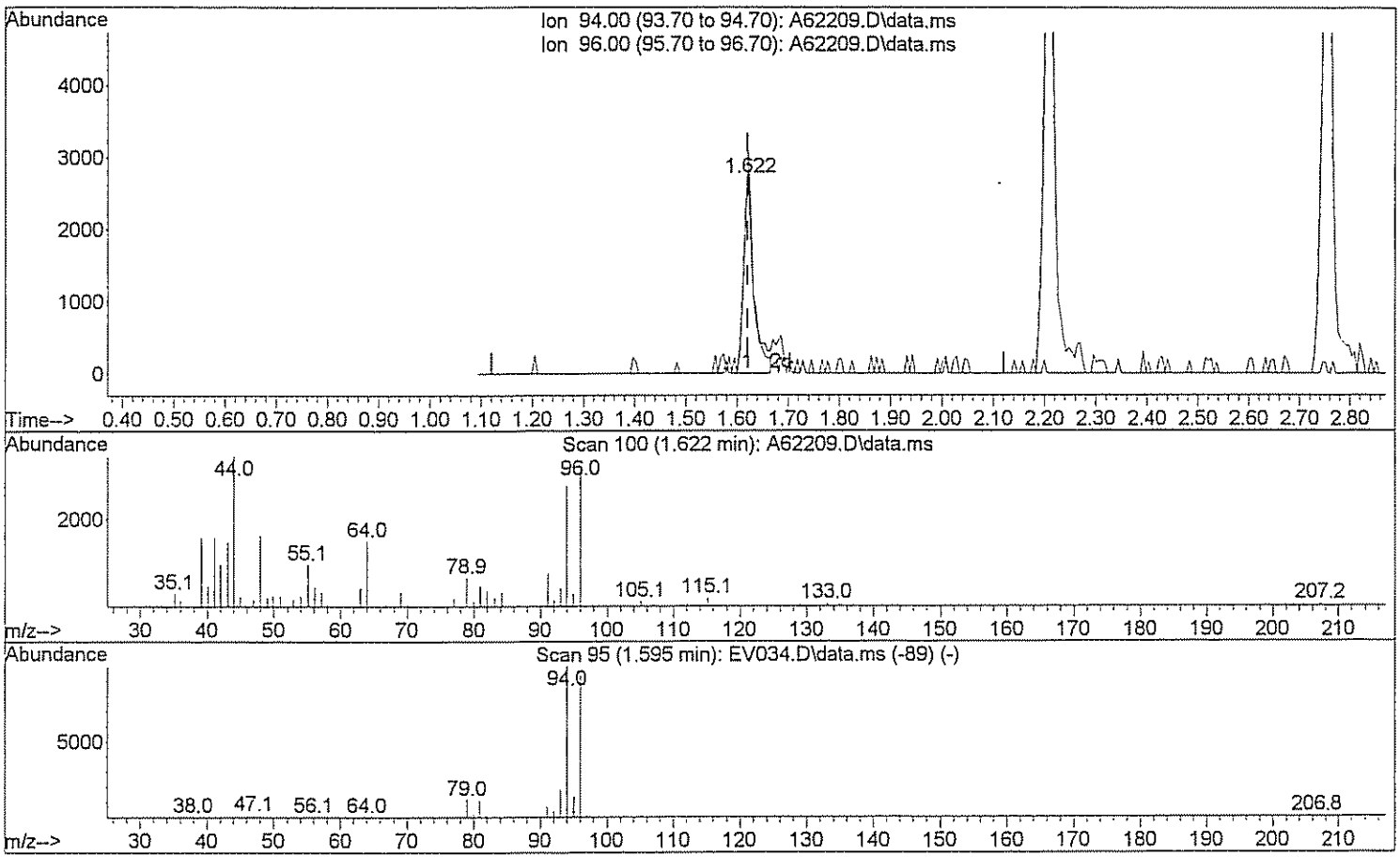
Quant Time: Mar 17 07:46:11 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(5) Bromomethane

1.622min (+0.000) 3.06 ug/L

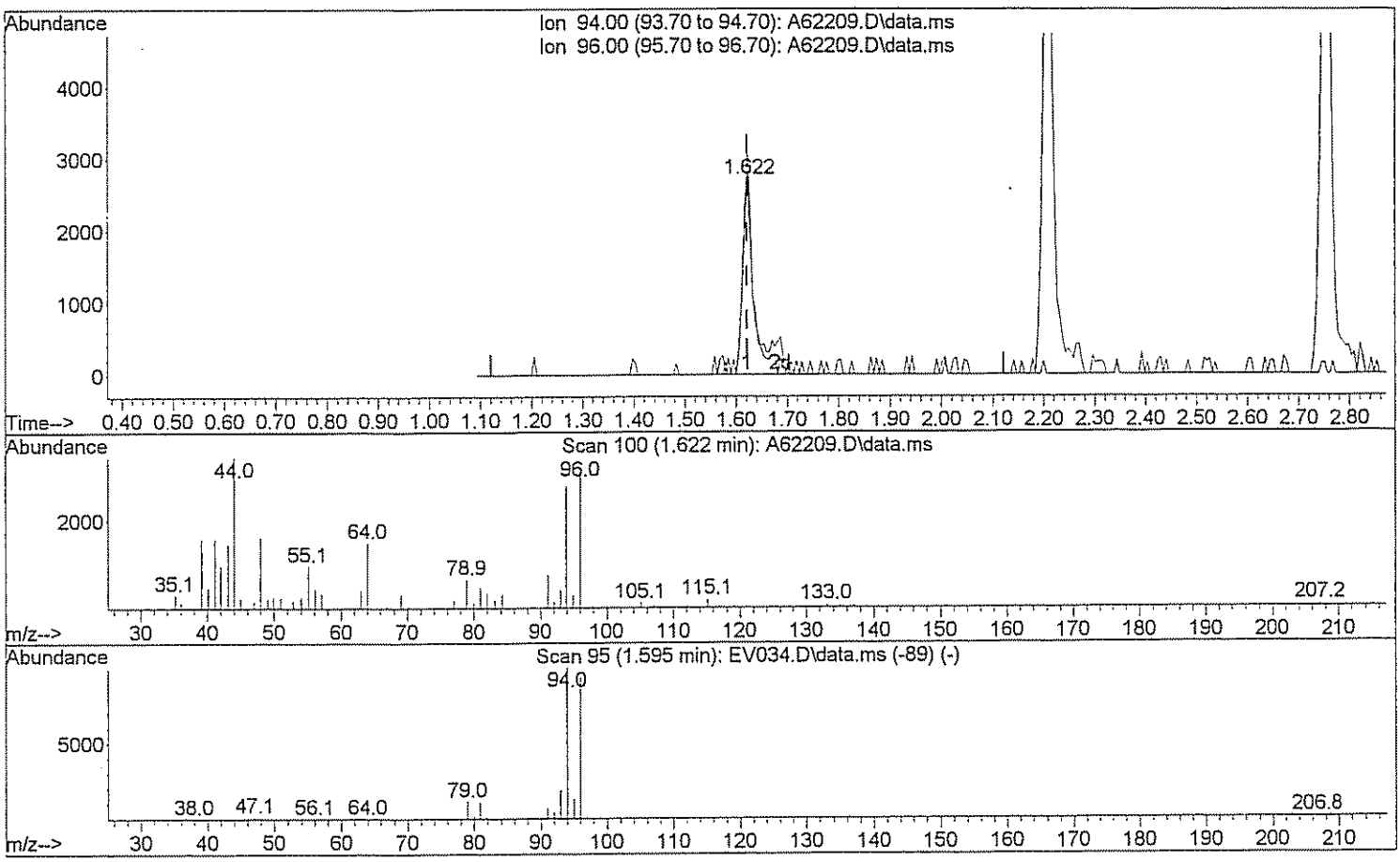
response 3686

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	114.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(5) Bromomethane

1.622min (+0.000) 3.53 ug/L m SW 3/17/09

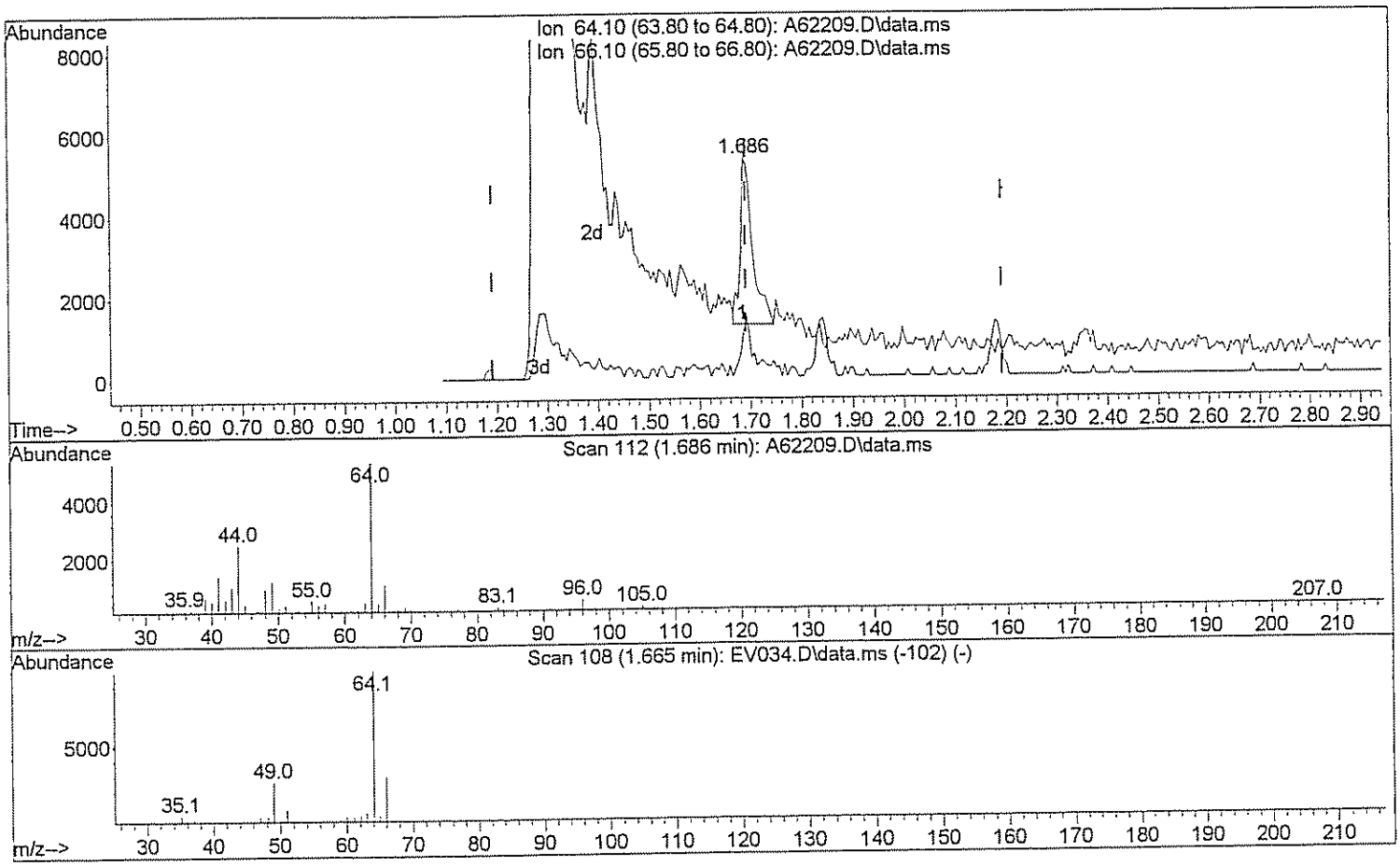
response 4253

Ion	Exp%	Act%
94.00	100	100
96.00	90.70	98.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(6) Chloroethane

1.686min (-0.005) 3.89 ug/L

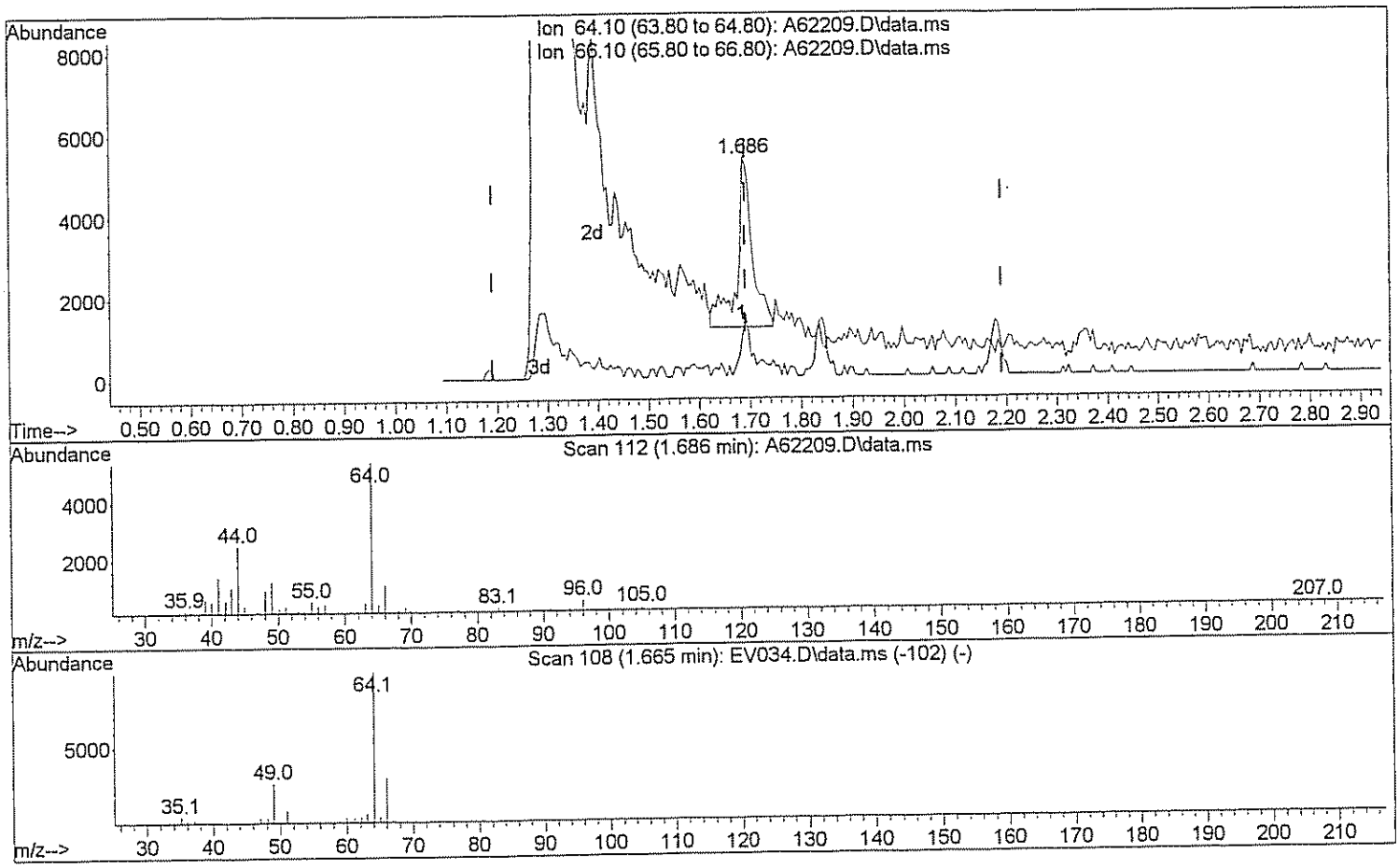
response 7032

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	29.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(6) Chloroethane

1.686min (-0.005) 4.93 ug/L m

3/17/09

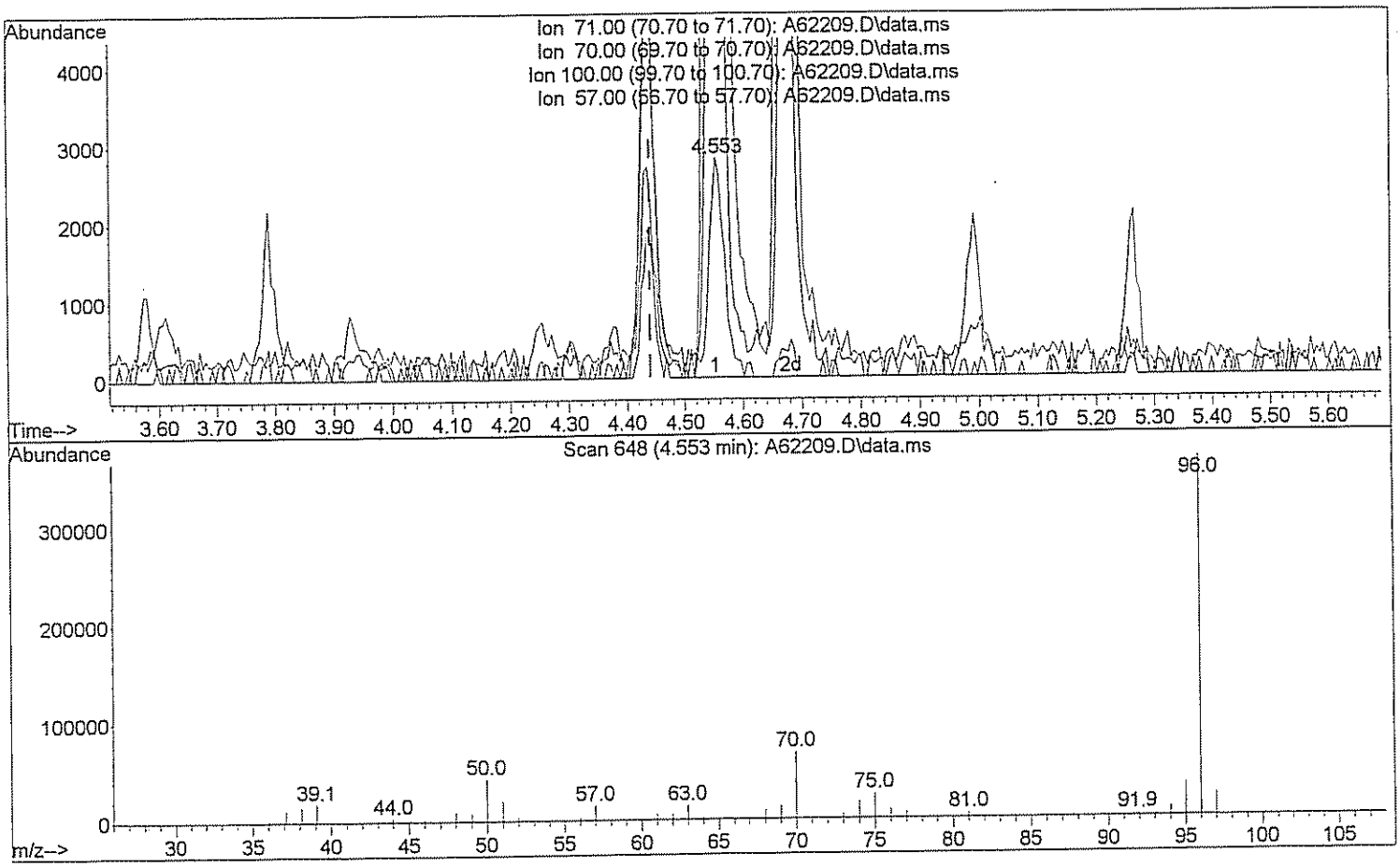
response 8923

Ion	Exp%	Act%
64.10	100	100
66.10	29.60	23.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(26) n-Heptane (T)

4.553min (+0.112) 2.38 ug/L

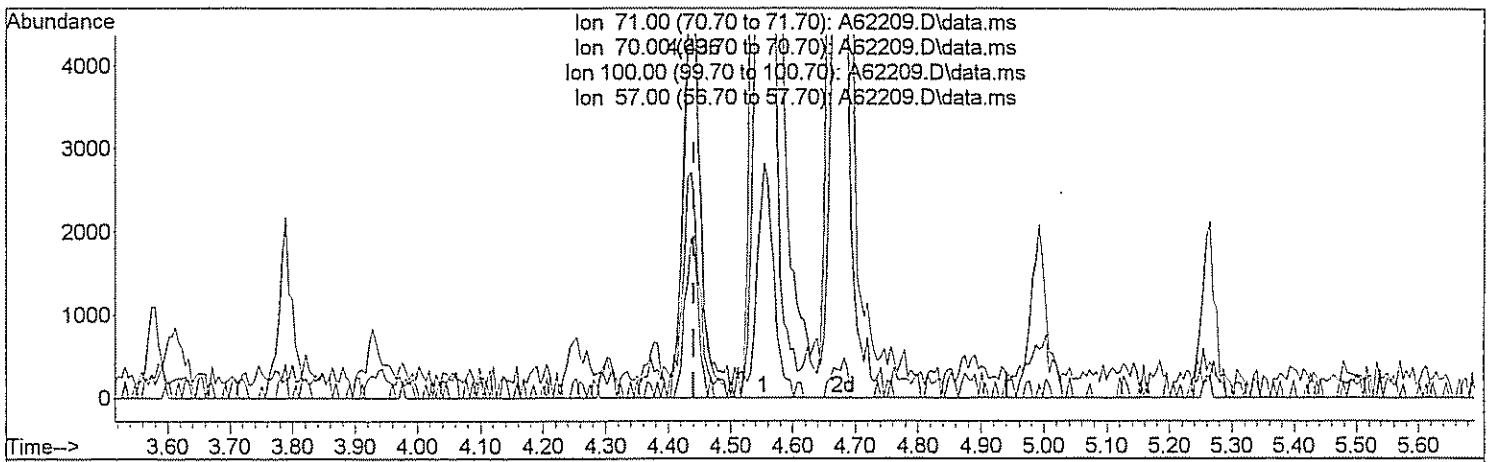
response 5249

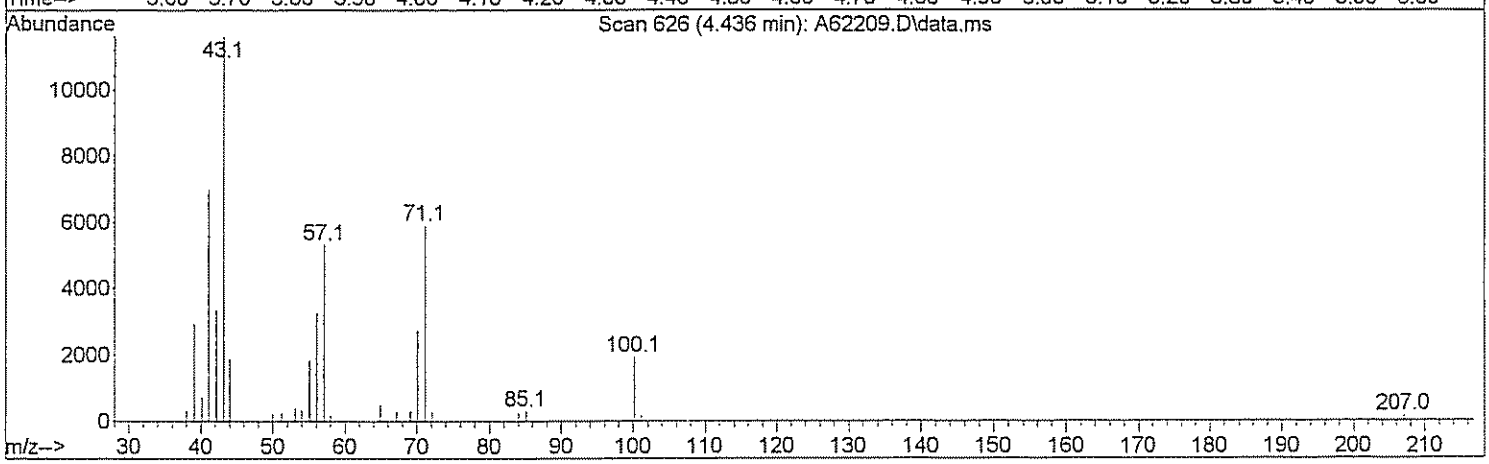
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2067.21#
100.00	62.00	0.00#
57.00	40.00	486.55#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration





TIC: A62209.D\data.ms

(26) n-Heptane (T)

4.436min (-0.005) 4.38 ug/L m 3/17/09

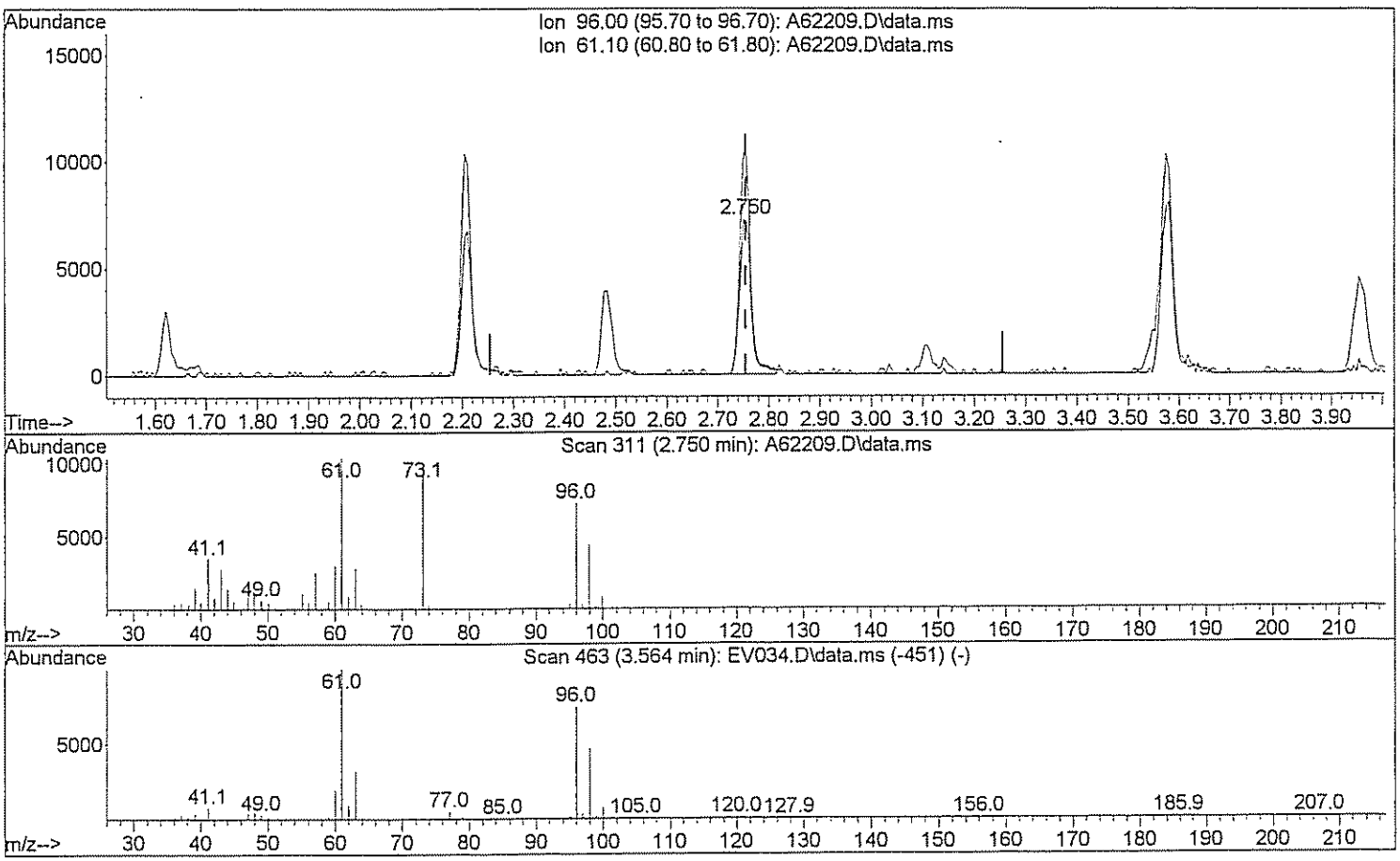
response 9657

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1123.62#
100.00	62.00	0.00#
57.00	40.00	264.46#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 3.82 ug/L

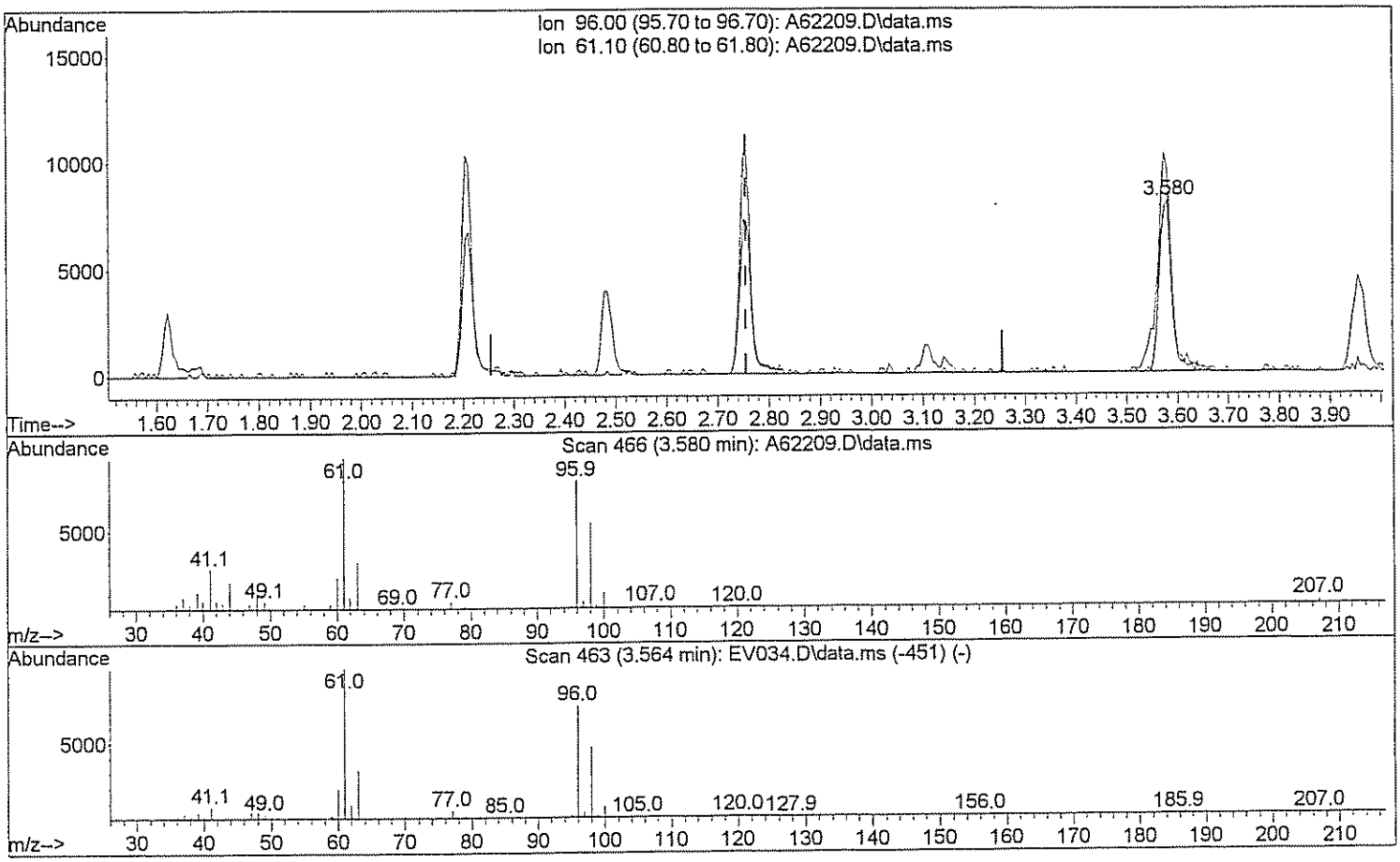
response 11537

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	134.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.824) 9.07 ug/L m DN 3/17/09

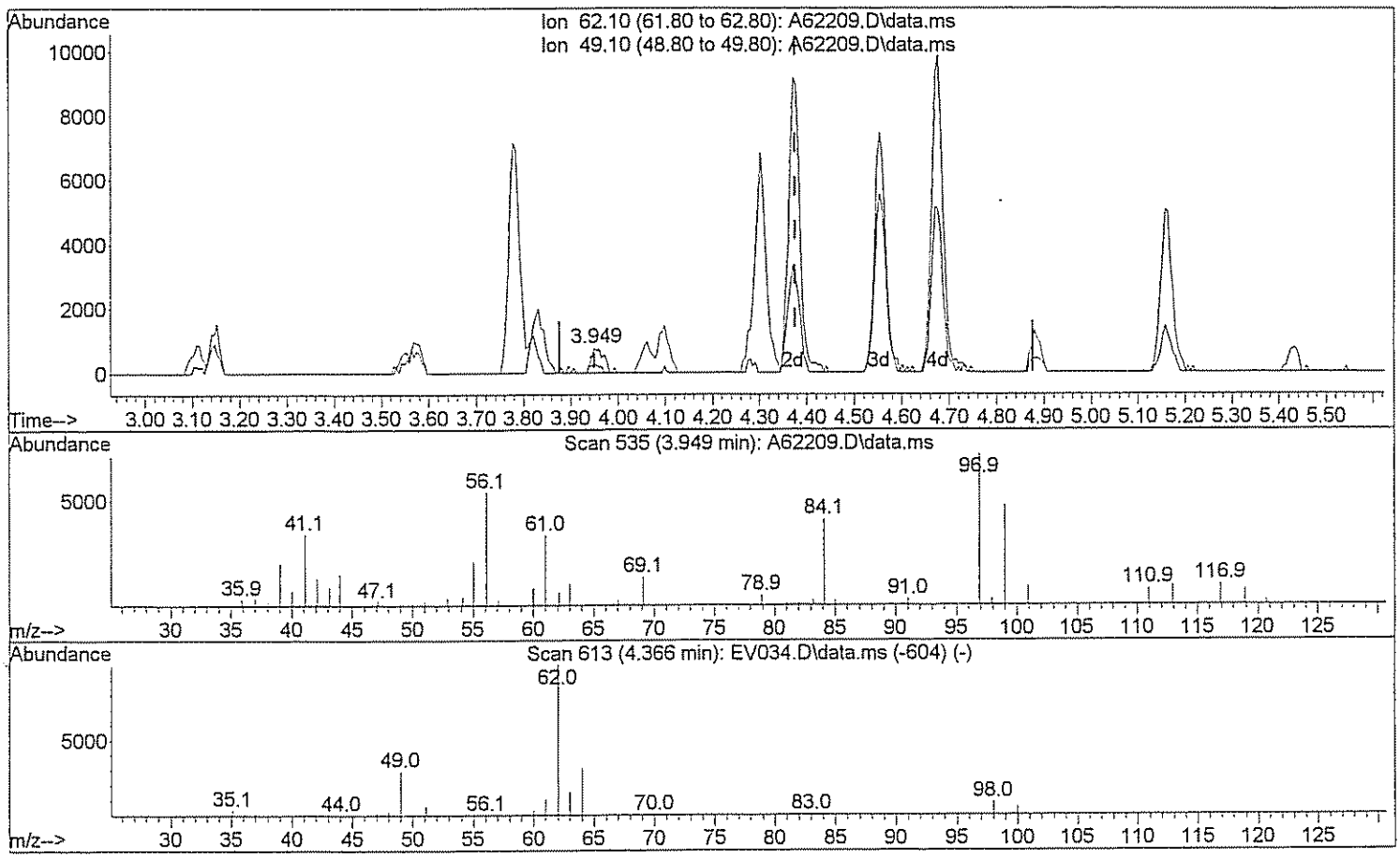
response 27425

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	56.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(46) 1,2-Dichloroethane

3.949min (-0.428) 0.37 ug/L

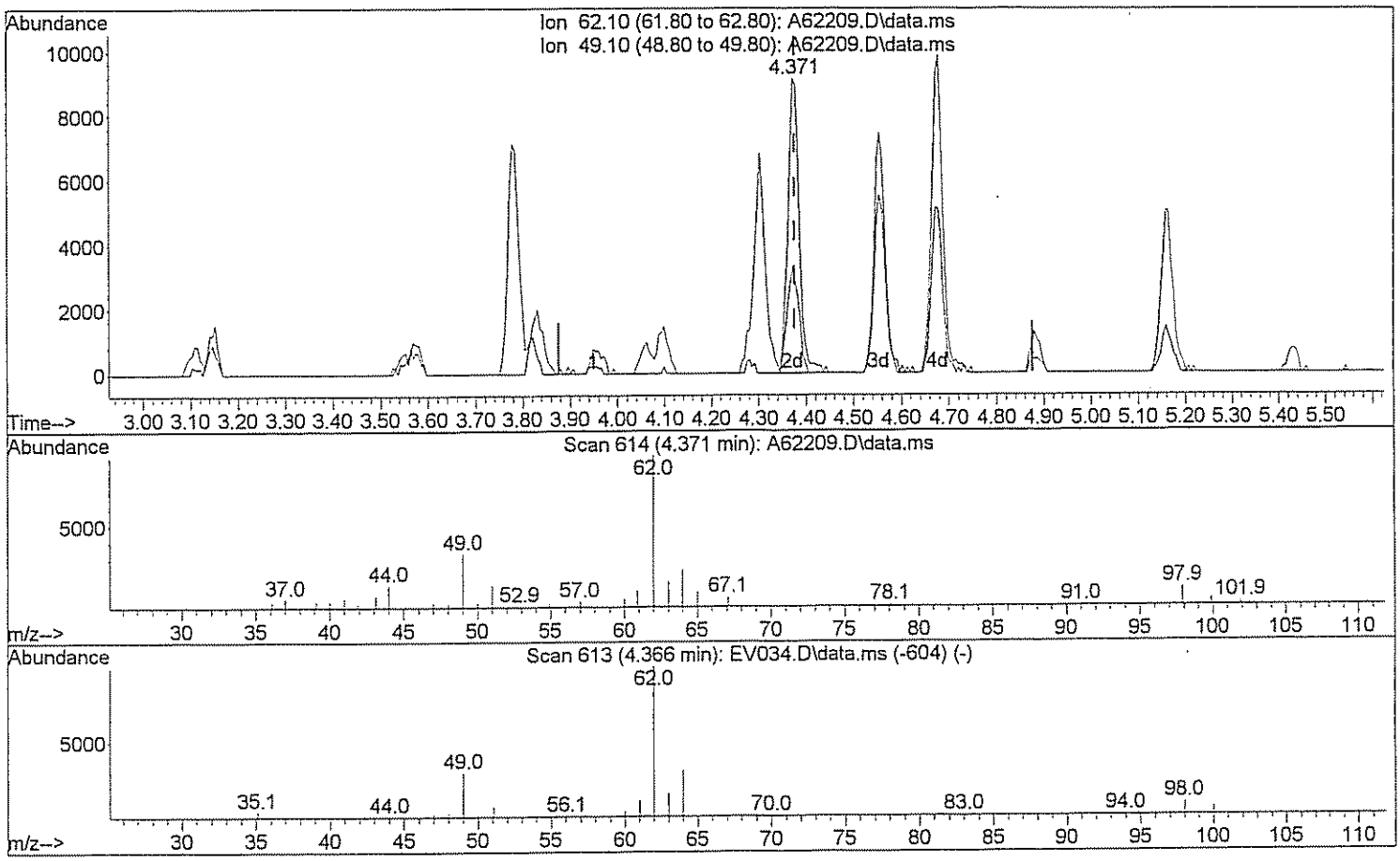
response 1349

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	28.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(46) 1,2-Dichloroethane

4.371min (-0.005) 4.16 ug/L m Sm 3/17/09

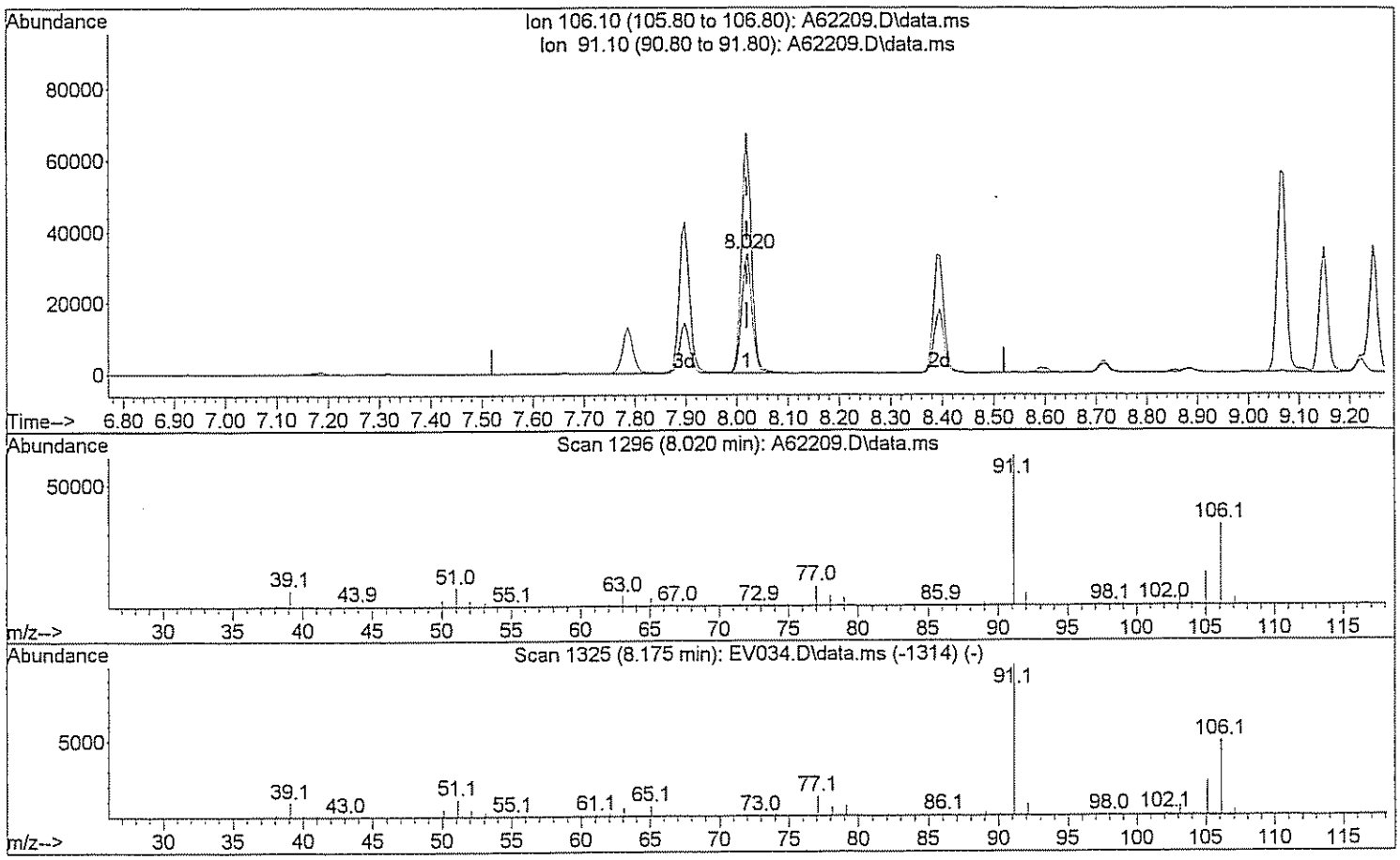
response 15061

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 8.28 ug/L

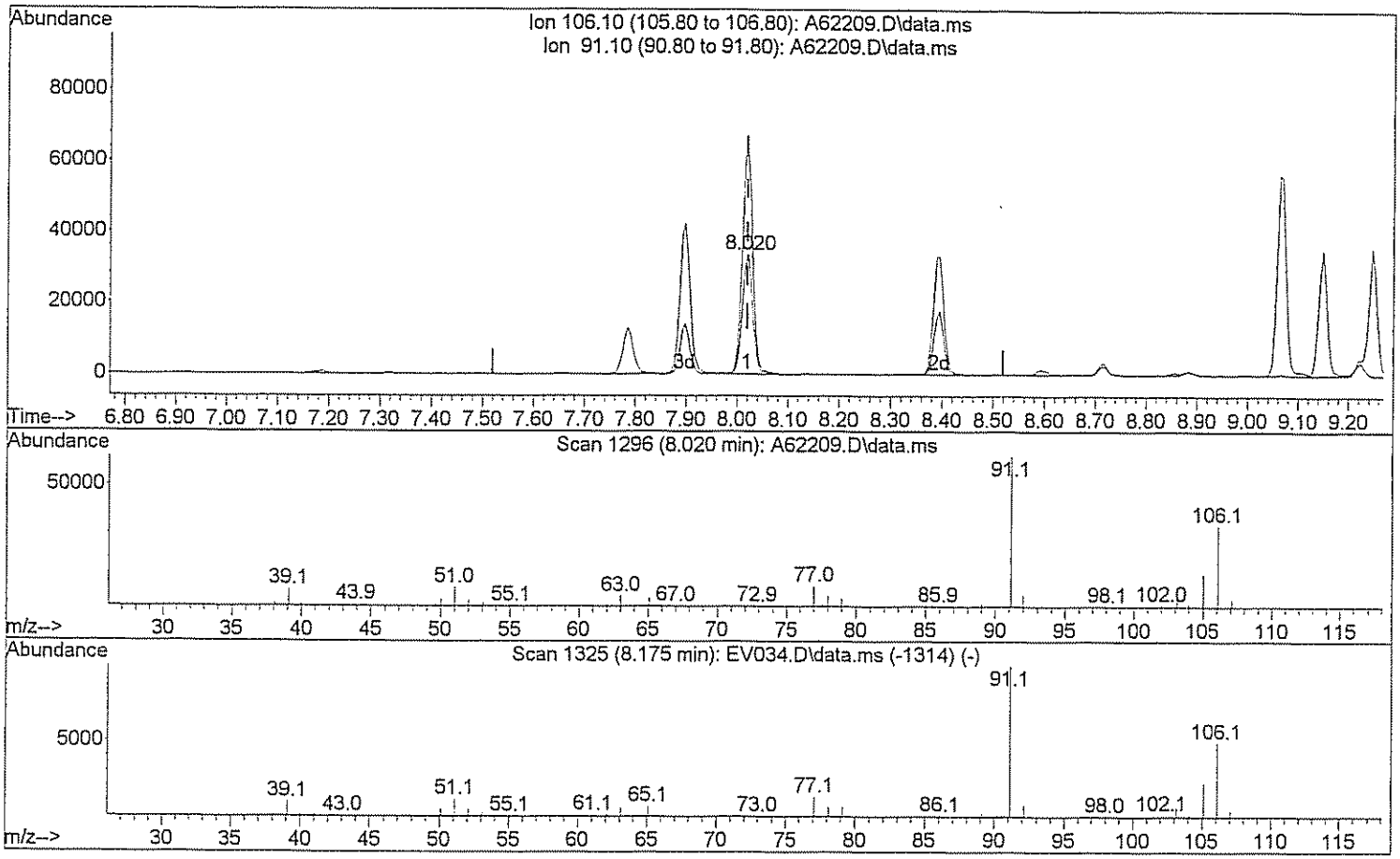
response 47385

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62209.D
Acq On : 10 Mar 2009 9:30
Operator : SM
Sample : CAL05
Misc : CAL05
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 07:44:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:43:15 2009
Response via : Initial Calibration



TIC: A62209.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 12.36 ug/L m Sm 3/17/09

response 70685

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.45#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	553220	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	454496	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	419468	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	145754	48.73	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.46%				
54) Toluene-d8	6.142	98	518648	48.17	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.34%				
76) 4-Bromofluorobenzene	8.881	95	198881	50.11	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.22%				
92) 1,2-Dichlorobenzene-d4	10.085	152	191647	47.67	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 95.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	22683	21.82	ug/L		97
3) Chloromethane	1.327	50	38383m	20.68	ug/L		
4) Vinyl chloride	1.397	62	42503	18.03	ug/L	#	74
5) Bromomethane	1.622	94	21911	20.64	ug/L		87
6) Chloroethane	1.691	64	31385	19.31	ug/L		93
7) Trichlorofluoromethane	1.841	101	62310	18.86	ug/L		95
8) Ethyl Ether	2.044	59	36511	16.98	ug/L		96
9) Freon 113	2.183	101	38442	21.06	ug/L		90
10) Acrolein	2.189	56	34430	84.02	ug/L	#	64
11) Tert-Butyl alcohol	2.670	59	80163	309.29	ug/L	#	47
12) 1,1-Dichloroethene	2.210	96	37050	17.23	ug/L		86
13) Iodomethane	2.333	142	44272	24.05	ug/L		93
14) Acetonitrile	2.483	40	206871	139.91	ug/L	#	1
15) Methylene chloride	2.595	84	47036	18.14	ug/L		97
16) Trans-1,2-dichloroethene	2.756	96	43592	17.46	ug/L		86
17) Isopropyl ether	3.093	45	172315	17.62	ug/L		99
18) 1,1-Dichloroethane	3.109	63	81435	17.48	ug/L		99
19) Acetone	2.296	43	31043	32.22	ug/L		99
20) Methyl Acetate	4.259	43	40988	22.85	ug/L	#	100
21) MTBE	2.740	73	116553	17.36	ug/L		100
22) Carbon disulfide	2.360	76	130326	18.68	ug/L		100
24) Acrylonitrile	2.831	53	63684	86.41	ug/L		97
25) Chloroprene	3.146	53	74629	17.82	ug/L		92
26) n-Heptane	4.441	71	41645m	21.62	ug/L		
27) 2,2-Dichloropropane	3.553	77	65546	17.57	ug/L	#	78
28) Cis-1,2-dichloroethene	3.580	96	51423	18.07	ug/L		100

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	98727m	35.66 ug/L	
30) Propionitrile	3.735	54	61322	162.62 ug/L	98
31) Bromochloromethane	3.783	128	23720	17.41 ug/L	92
32) Tetrahydrofuran	3.788	72	10883	18.06 ug/L #	22
33) Chloroform	3.836	83	78218	15.79 ug/L	99
34) Cyclohexane	3.938	56	82196	19.97 ug/L	94
35) 1,1,1-Trichloroethane	3.959	97	67891	17.72 ug/L	98
36) Carbon tetrachloride	4.066	117	58586	17.41 ug/L	99
37) Methacrylonitrile	3.826	41	319463	153.51 ug/L #	16
38) Methylcyclohexane	4.992	83	78324	20.75 ug/L	92
39) Isobutyl Alcohol	4.436	43	77335	452.45 ug/L	89
42) 2-Butanone	3.617	43	53217	33.16 ug/L	98
43) 1,1-Dichloropropene	4.099	75	60167	17.60 ug/L	100
44) Vinyl Acetate	3.136	43	58557	16.36 ug/L #	95
45) Benzene	4.286	78	186683	17.77 ug/L	100
46) 1,2-Dichloroethane	4.377	62	58822	17.72 ug/L #	85
47) Trichloroethene	4.885	95	47885	18.47 ug/L	98
48) 1,2-Dichloropropane	5.163	63	47828	17.38 ug/L	96
49) Methyl methacrylate	5.265	69	31100	17.47 ug/L	93
50) Dibromomethane	5.281	93	26649	16.54 ug/L	100
51) Bromodichloromethane	5.431	83	60679	17.62 ug/L	100
52) 2-Chloroethylvinyl ether	5.778	63	27174	27.32 ug/L	99
53) Cis-1,3-dichloropropene	5.917	75	73064	16.84 ug/L	97
55) Toluene	6.217	92	120757	17.25 ug/L	97
56) Trans-1,3-dichloropropene	6.570	75	65209	16.50 ug/L	98
57) Ethyl methacrylate	6.624	69	58889	17.54 ug/L	94
58) 1,1,2-Trichloroethane	6.773	83	35068	17.24 ug/L	99
60) 4-Methyl-2-pentanone	6.094	43	95219	37.44 ug/L	95
61) 2-Hexanone	7.062	43	65905	35.06 ug/L #	98
62) Tetrachloroethene	6.795	166	47752	17.78 ug/L	99
63) 1,3-Dichloropropane	6.971	76	66347	17.70 ug/L	93
64) Dibromochloromethane	7.185	129	48825	17.81 ug/L	95
65) 1,2-Dibromoethane	7.314	107	41606	18.45 ug/L	98
66) 1-Chlorohexane	7.785	91	68657	18.67 ug/L	98
67) Chlorobenzene	7.806	112	137741	17.81 ug/L	92
68) 1,1,1,2-Tetrachloroethane	7.908	131	48936	17.09 ug/L	94
69) Ethylbenzene	7.897	91	233839	17.81 ug/L	99
70) m,p-Xylene	8.020	106	187997	35.38 ug/L	90
71) o-Xylene	8.394	106	94963	18.42 ug/L	88
72) Xylene (Total)	8.020	106	283667m	52.95 ug/L	
73) Styrene	8.421	104	156053	17.74 ug/L	96
74) Bromoform	8.598	173	29487	16.98 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration

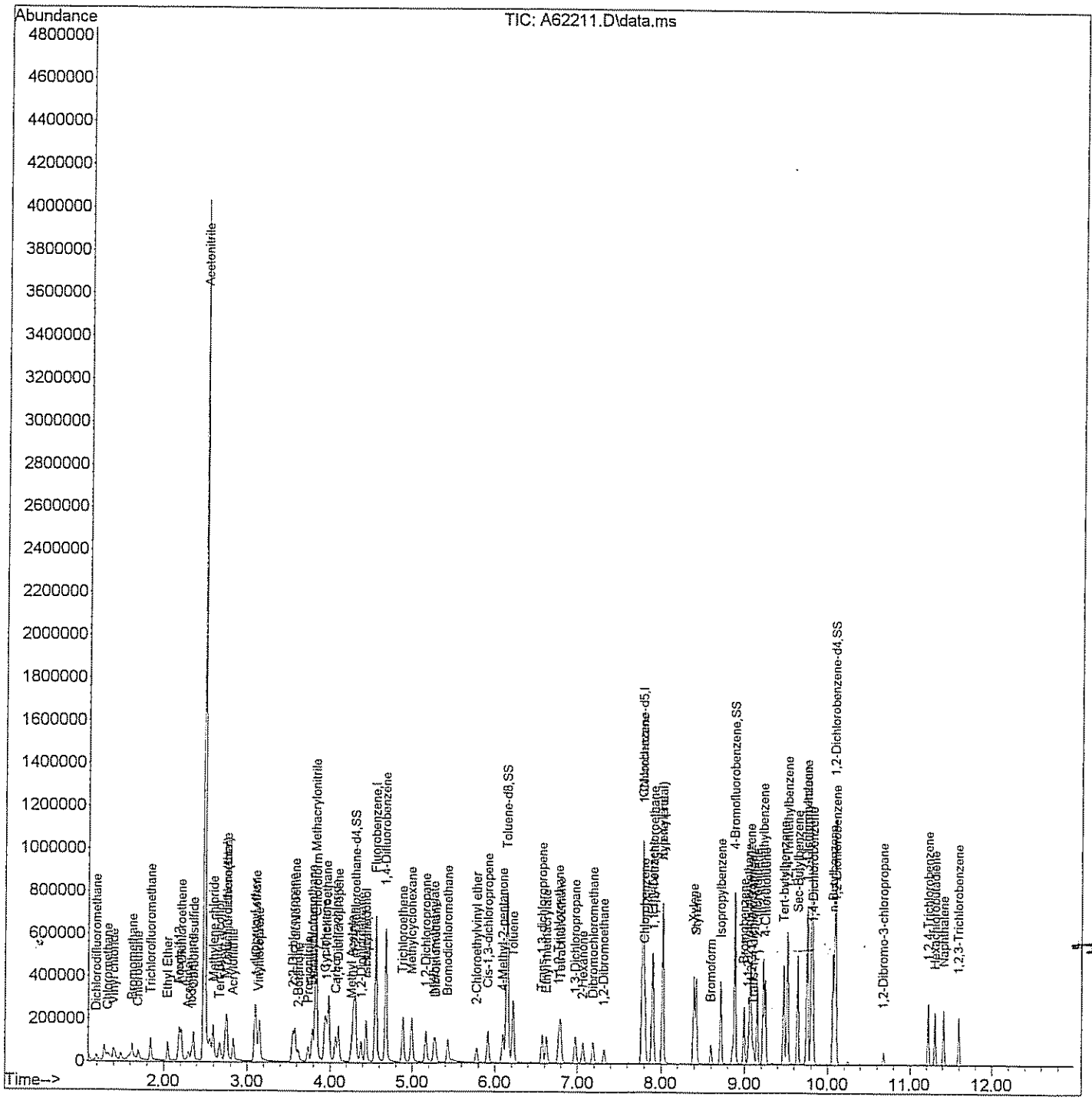
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	200704	17.88	ug/L		98
77) Bromobenzene	8.994	156	54693	17.85	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	51631	17.71	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	15281	17.96	ug/L		98
80) n-Propylbenzene	9.068	91	277751	18.11	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	10745	14.15	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	59122	18.39	ug/L		87
83) 4-Chlorotoluene	9.250	126	59717	17.79	ug/L		92
84) 1,3,5-Trimethylbenzene	9.224	105	195130	17.41	ug/L		95
85) Tert-butylbenzene	9.470	119	169553	17.29	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	198690	16.93	ug/L		92
88) Sec-Butylbenzene	9.641	105	260702	17.44	ug/L		99
89) 1,3-Dichlorobenzene	9.748	146	111192	16.52	ug/L		99
90) 4-Isopropyltoluene	9.753	119	224435	17.00	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	113933	17.23	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	104653	17.01	ug/L		98
94) n-Butylbenzene	10.063	91	210224	17.28	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	8530	16.76	ug/L		81
96) 1,2,4-Trichlorobenzene	11.224	180	60919	16.13	ug/L		99
97) Hexachlorobutadiene	11.305	225	28493	16.01	ug/L		96
98) Naphthalene	11.412	128	147178	16.20	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	51745	16.32	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

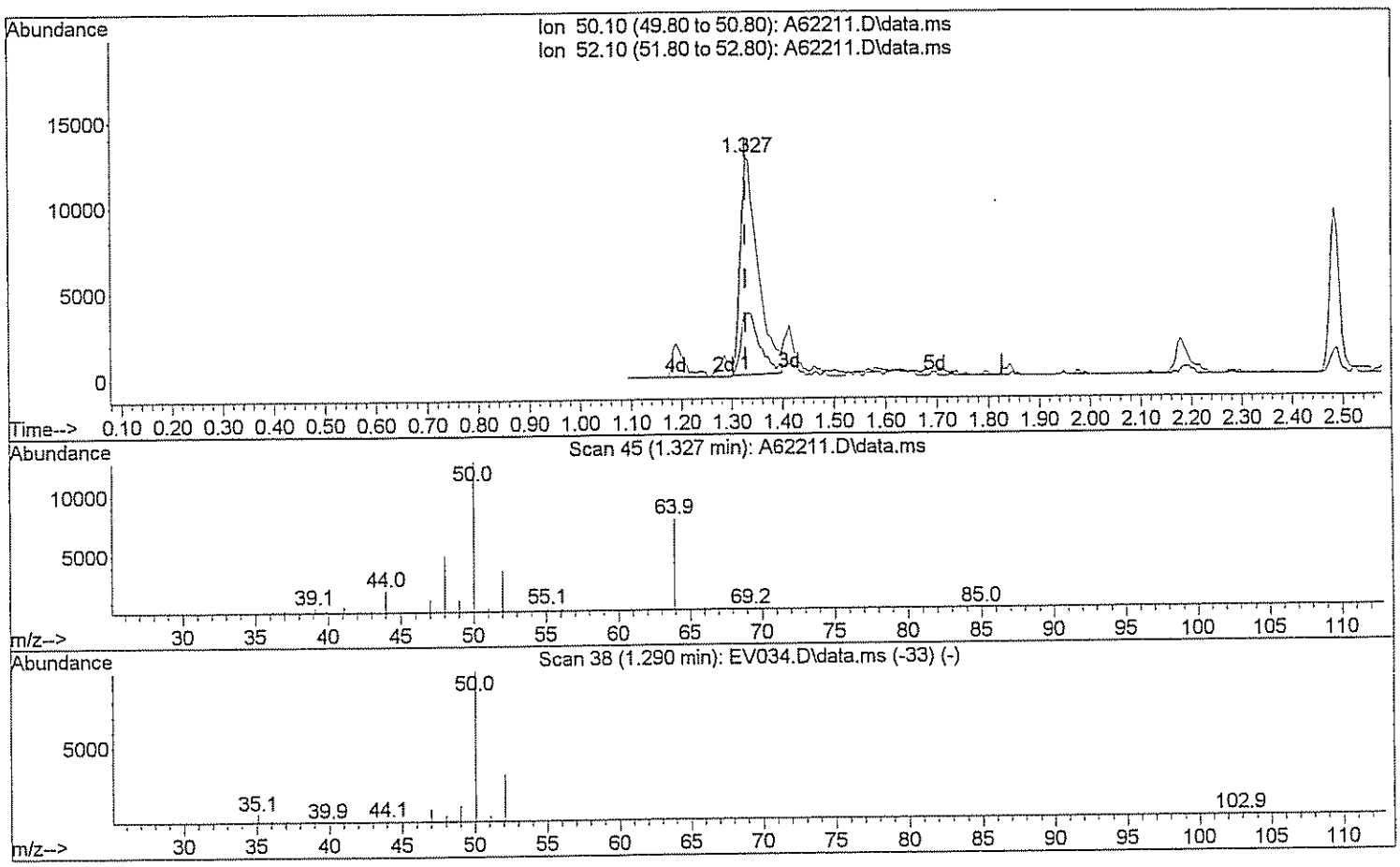
Quant Time: Mar 17 07:42:34 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(3) Chloromethane

1.327min (-0.000) 16.63 ug/L

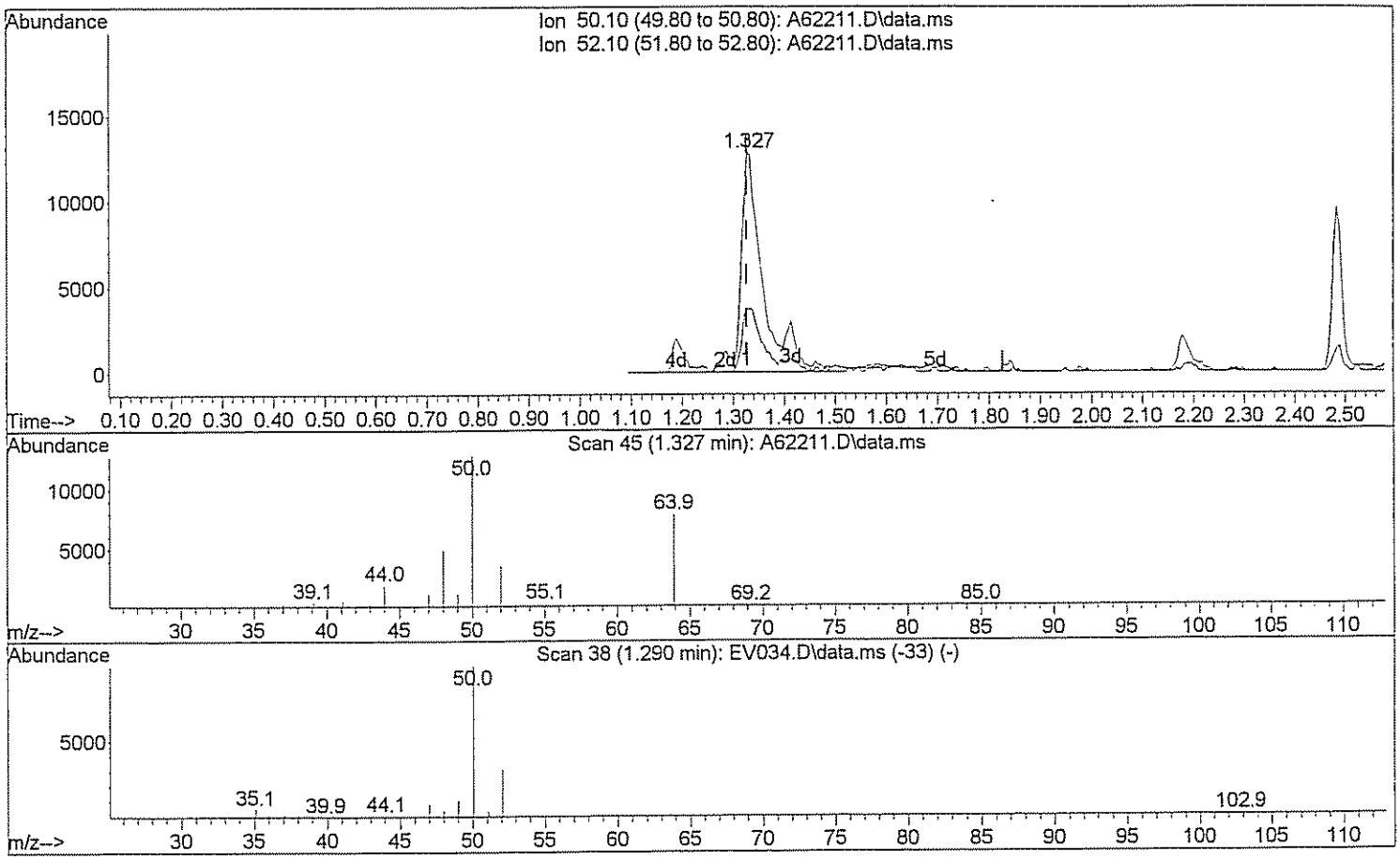
response 30866

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	31.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(3) Chloromethane

1.327min (-0.000) 20.68 ug/L m SM 3/17/09

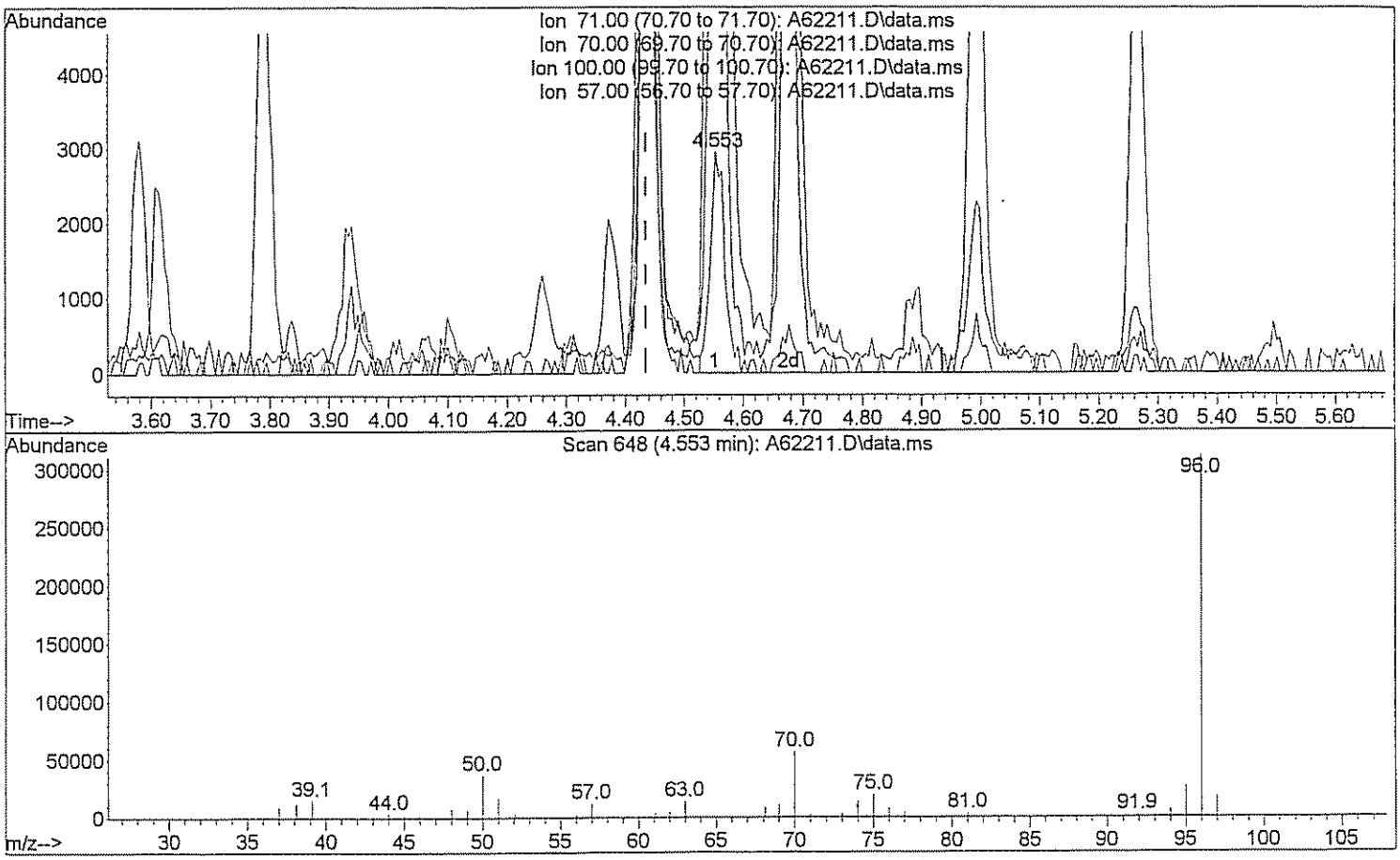
response 38383

Ion	Exp%	Act%
50.10	100	100
52.10	32.20	24.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.60 ug/L

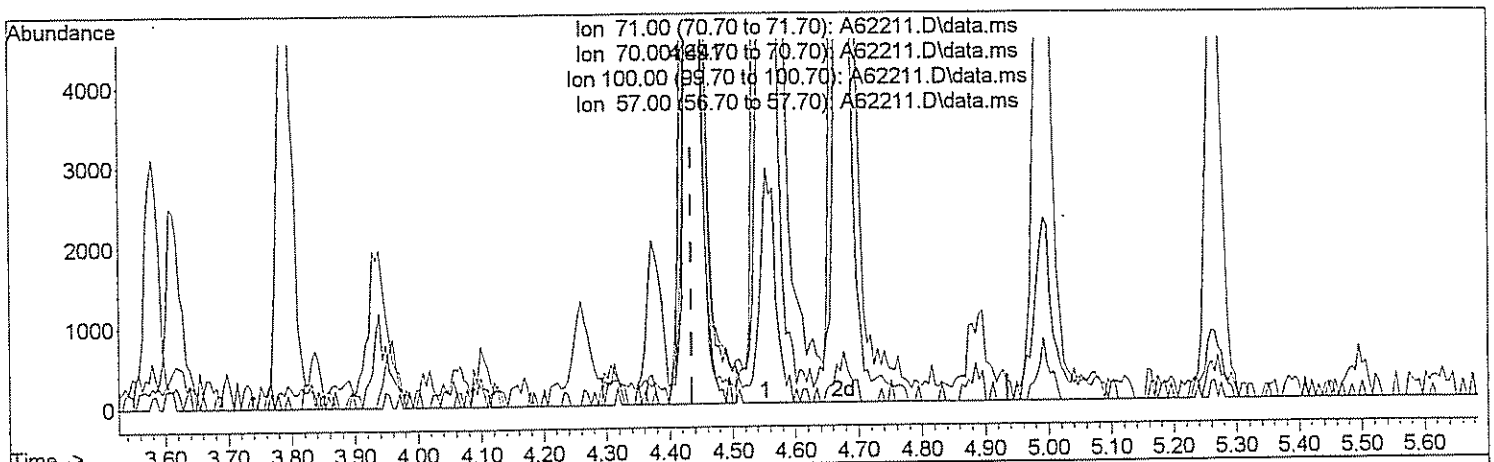
response 5014

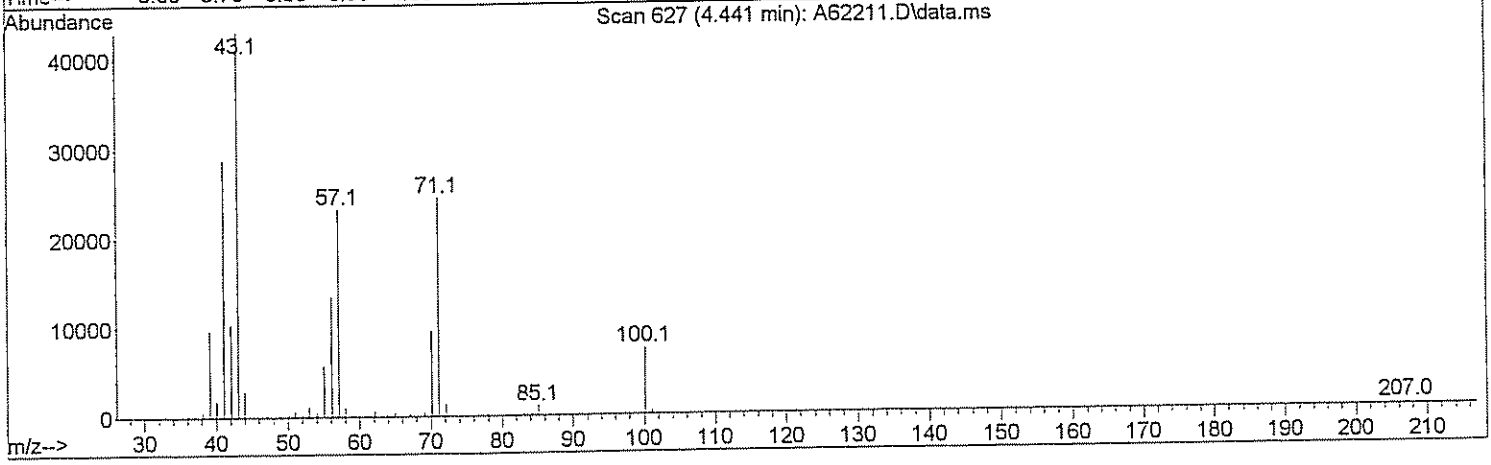
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1952.27#
100.00	62.00	0.00#
57.00	40.00	404.87#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration





TIC: A62211.D\data.ms

(26) n-Heptane (T)

4.441min (+0.005) 21.62 ug/L m DM 3/17/09

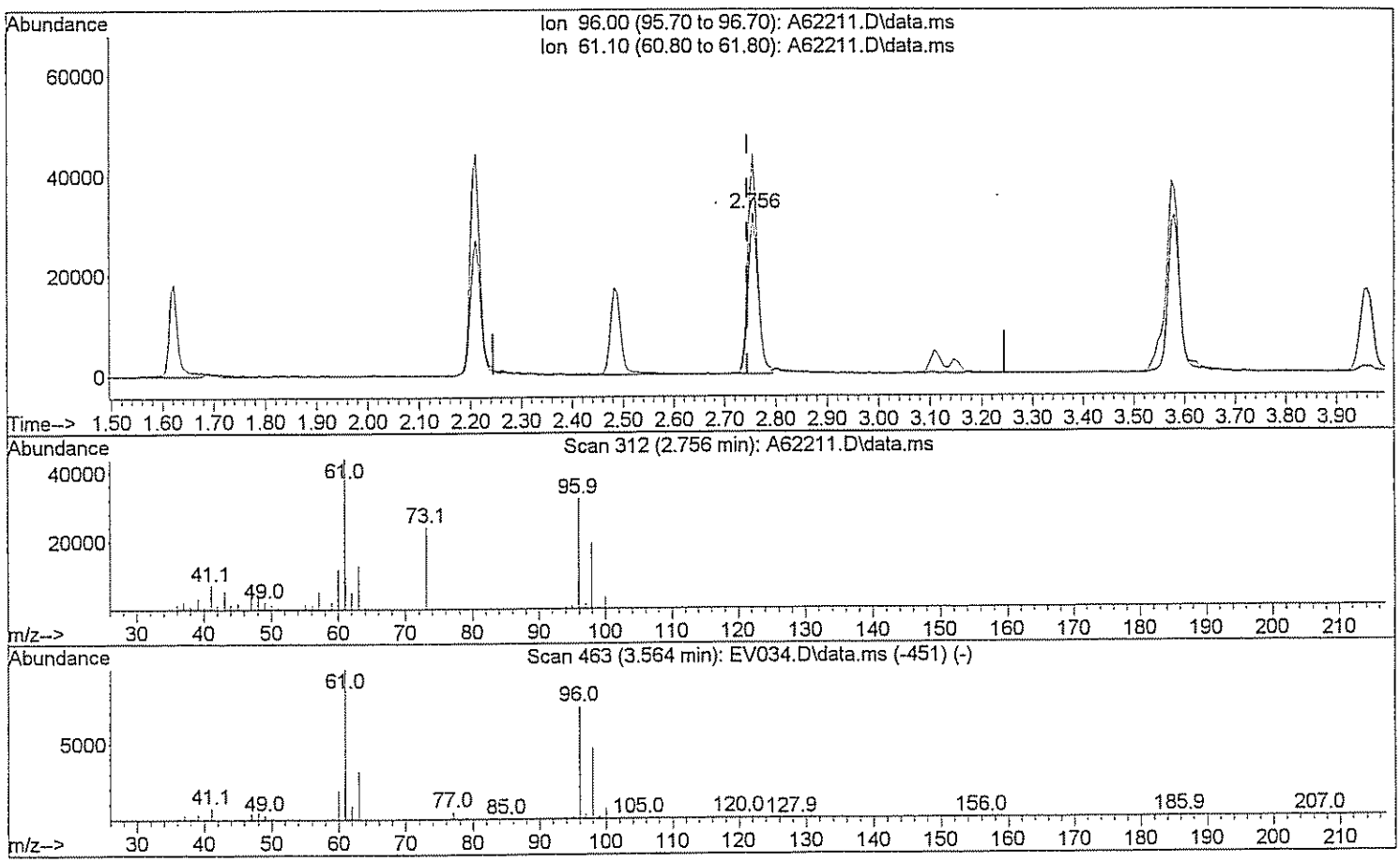
response 41645

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	235.05#
100.00	62.00	0.00#
57.00	40.00	48.75#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.011) 15.74 ug/L

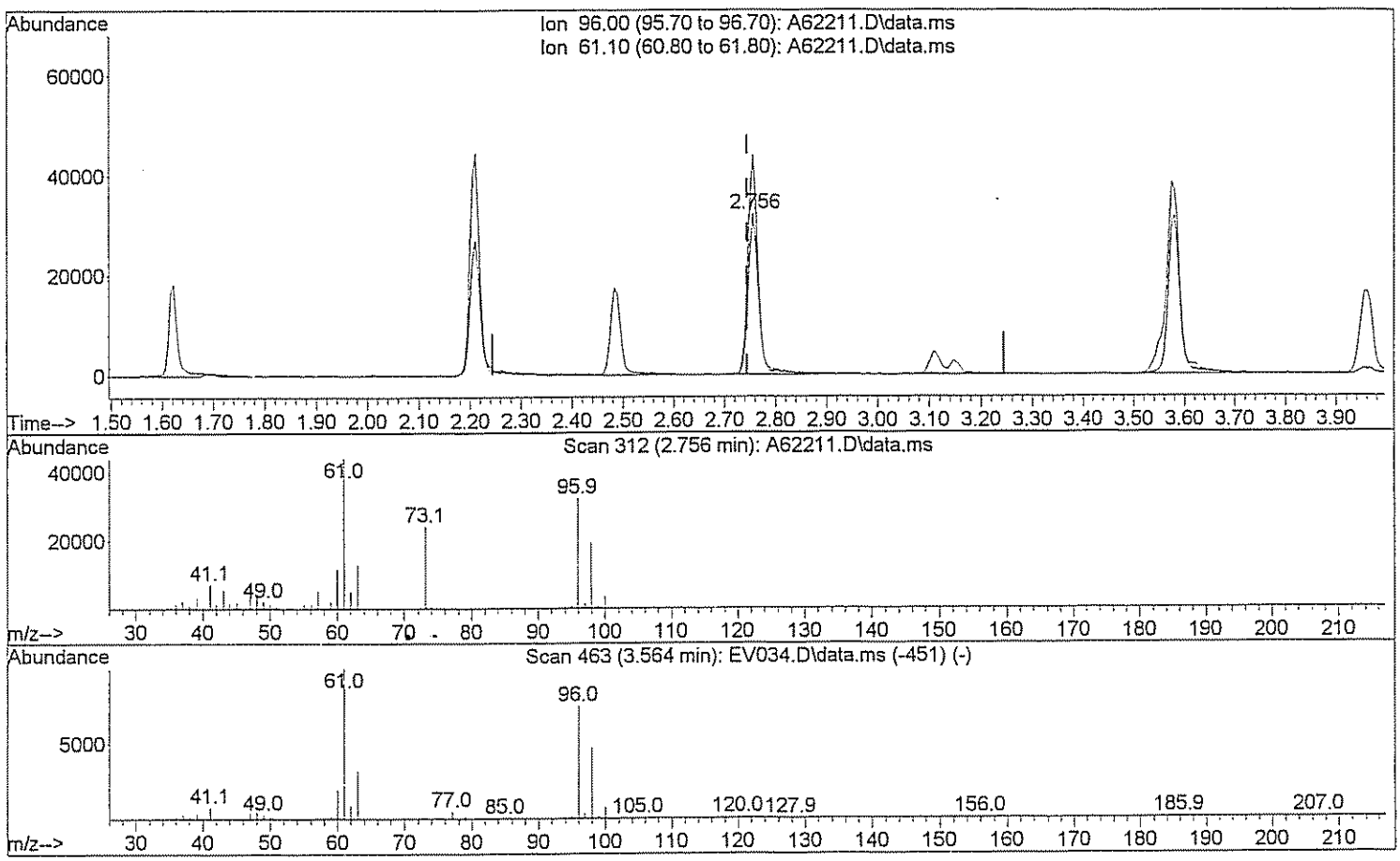
response 43592

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	136.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.011) 35.66 ug/L m DM 3/17/09

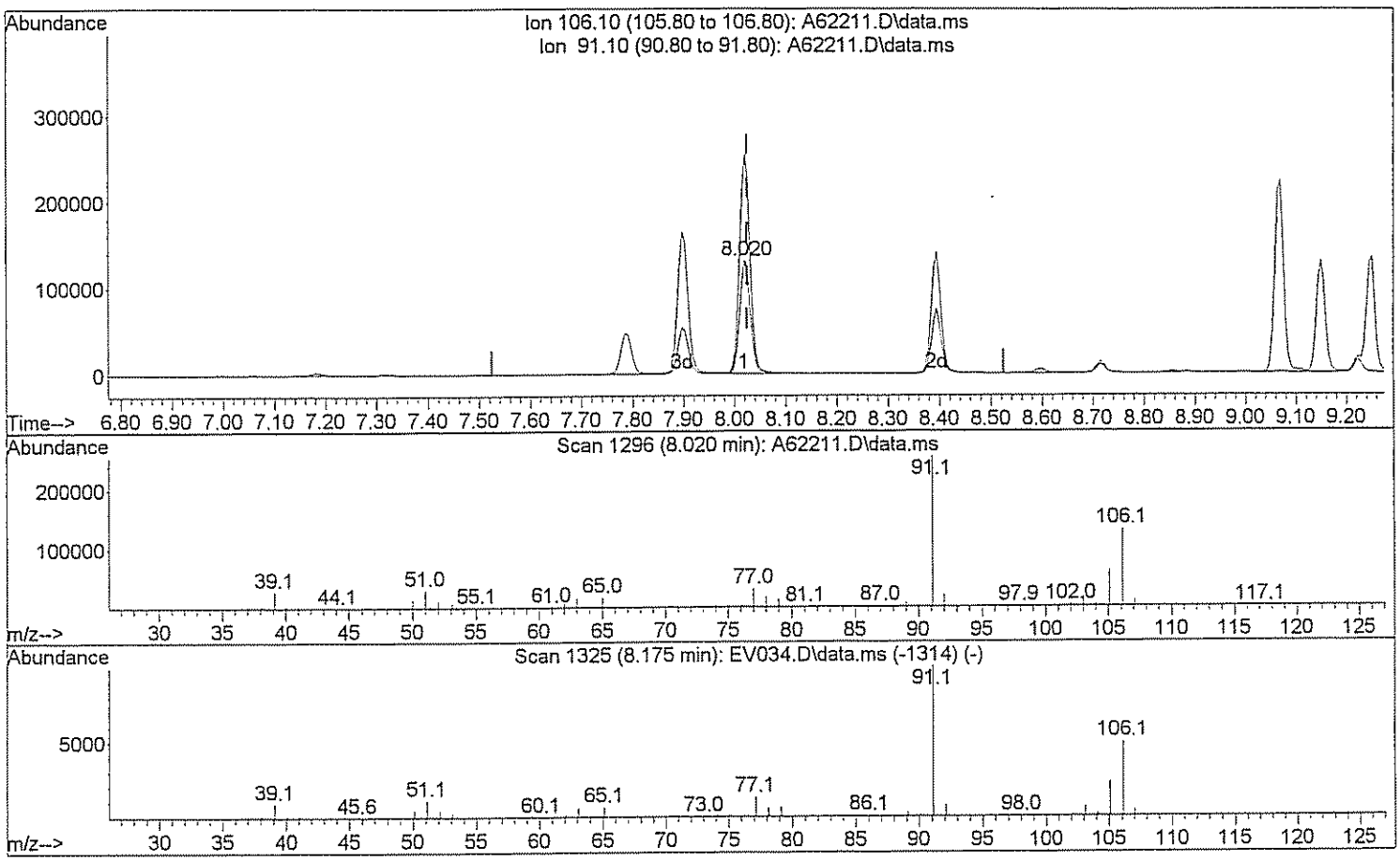
response 98727

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(72) Xylene (Total)

8.020min (-0.005) 35.09 ug/L

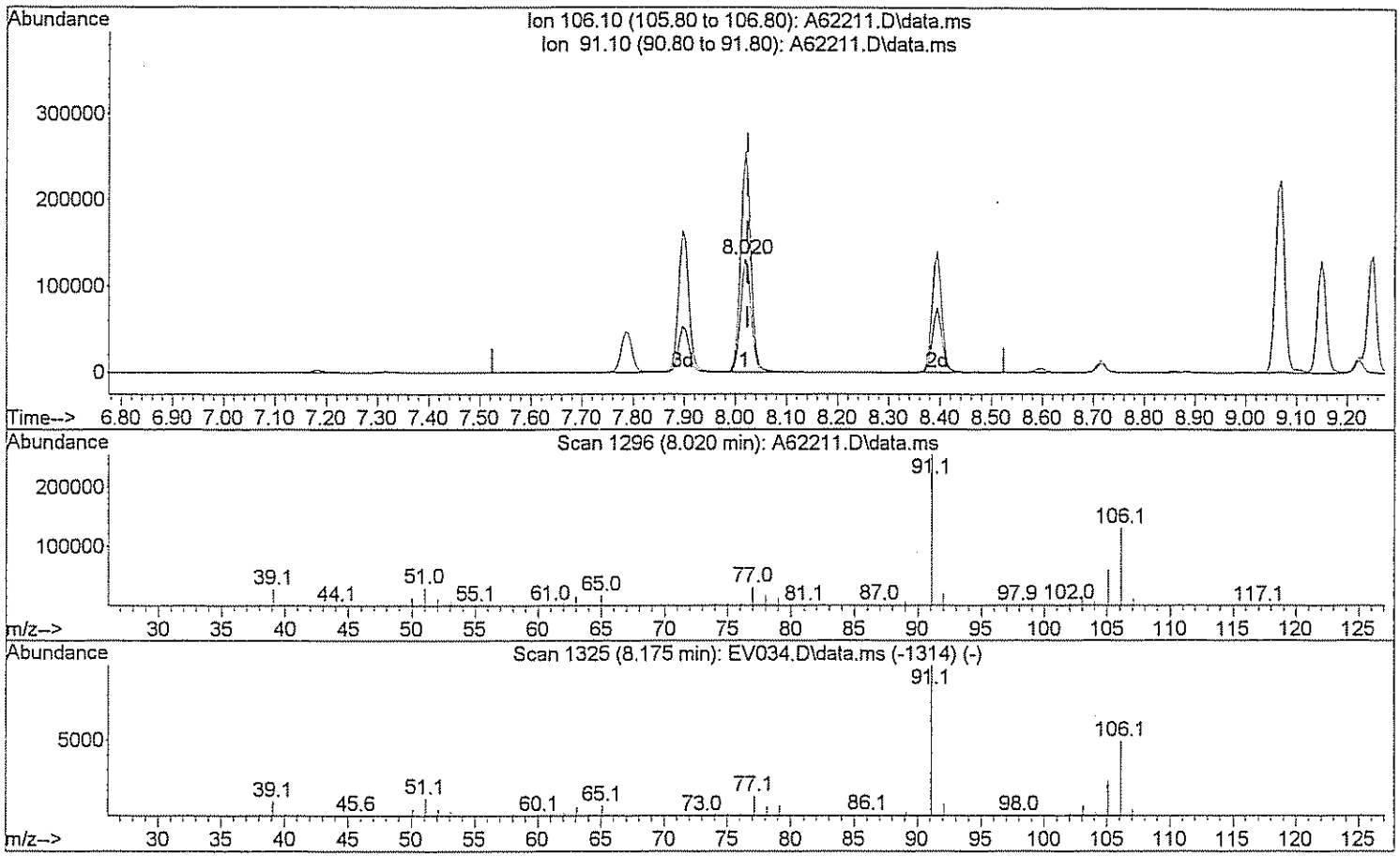
response 187997

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62211.D
Acq On : 10 Mar 2009 11:03
Operator : SM
Sample : CAL20
Misc : CAL20
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 17 07:41:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:39:44 2009
Response via : Initial Calibration



TIC: A62211.D\data.ms

(72) Xylene (Total)

8.020min (-0.005) 52.95 ug/L m

response 283667

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	128.02#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	517488	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	422933	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	401270	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	136891	50.00	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.00%				
54) Toluene-d8	6.142	98	489895	50.00	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 100.00%				
76) 4-Bromofluorobenzene	8.881	95	191568	50.00	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.00%				
92) 1,2-Dichlorobenzene-d4	10.085	152	186765	50.00	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 100.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	50493	50.00	ug/L		99
3) Chloromethane	1.333	50	75038	50.00	ug/L		99
4) Vinyl chloride	1.392	62	109090	50.00	ug/L		89
5) Bromomethane	1.616	94	40459	50.00	ug/L		93
6) Chloroethane	1.681	64	73681	50.00	ug/L		98
7) Trichlorofluoromethane	1.830	101	150042	50.00	ug/L		99
8) Ethyl Ether	2.044	59	98047	50.00	ug/L		97
9) Freon 113	2.173	101	85406	50.00	ug/L		88
10) Acrolein	2.189	56	92821	250.00	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	267348	1000.00	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	97387	50.00	ug/L		88
13) Iodomethane	2.328	142	47106	50.00	ug/L		98
14) Acetonitrile	2.478	40	640731	500.00	ug/L	#	1
15) Methylene chloride	2.590	84	116172	50.00	ug/L		97
16) Trans-1,2-dichloroethene	2.750	96	114422	50.00	ug/L		88
17) Isopropyl ether	3.093	45	452281	50.00	ug/L		97
18) 1,1-Dichloroethane	3.104	63	212749	50.00	ug/L		100
19) Acetone	2.296	43	93893	100.00	ug/L		98
20) Methyl Acetate	4.259	43	132527	50.00	ug/L	#	100
21) MTBE	2.740	73	315419	50.00	ug/L		100
22) Carbon disulfide	2.349	76	315893	50.00	ug/L		100
24) Acrylonitrile	2.831	53	172844	250.00	ug/L		100
25) Chloroprene	3.146	53	183033	50.00	ug/L		89
26) n-Heptane	4.436	71	89309m	49.81	ug/L		
27) 2,2-Dichloropropane	3.548	77	172586	50.00	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	130958	50.00	ug/L		95

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.750	96	250709m	99.75	ug/L		
30) Propionitrile	3.735	54	181196	500.00	ug/L		100
31) Bromochloromethane	3.778	128	61344	50.00	ug/L		94
32) Tetrahydrofuran	3.788	72	28703	50.00	ug/L	#	1
33) Chloroform	3.836	83	206436	50.00	ug/L		99
34) Cyclohexane	3.933	56	185439	50.00	ug/L		92
35) 1,1,1-Trichloroethane	3.954	97	172467	50.00	ug/L		100
36) Carbon tetrachloride	4.061	117	150120	50.00	ug/L		97
37) Methacrylonitrile	3.826	41	905465	500.00	ug/L	#	16
38) Methylcyclohexane	4.992	83	172498	50.00	ug/L		93
39) Isobutyl Alcohol	4.436	43	164334	1000.00	ug/L		90
42) 2-Butanone	3.612	43	156619	100.00	ug/L		96
43) 1,1-Dichloropropene	4.099	75	156550	50.00	ug/L		98
44) Vinyl Acetate	3.130	43	169548	50.00	ug/L		98
45) Benzene	4.280	78	472720	50.00	ug/L		100
46) 1,2-Dichloroethane	4.371	62	151934	50.00	ug/L	#	85
47) Trichloroethene	4.885	95	117651	50.00	ug/L		92
48) 1,2-Dichloropropane	5.163	63	126153	50.00	ug/L		93
49) Methyl methacrylate	5.259	69	84950	50.00	ug/L		100
50) Dibromomethane	5.276	93	74340	50.00	ug/L		99
51) Bromodichloromethane	5.431	83	159151	50.00	ug/L		100
52) 2-Chloroethylvinyl ether	5.778	63	279014	200.00	ug/L		97
53) Cis-1,3-dichloropropene	5.912	75	198463	50.00	ug/L		99
55) Toluene	6.217	92	313028	50.00	ug/L		100
56) Trans-1,3-dichloropropene	6.570	75	182970	50.00	ug/L		97
57) Ethyl methacrylate	6.624	69	154204	50.00	ug/L		95
58) 1,1,2-Trichloroethane	6.773	83	93153	50.00	ug/L		99
60) 4-Methyl-2-pentanone	6.094	43	257968	100.00	ug/L		99
61) 2-Hexanone	7.062	43	190783	100.00	ug/L		98
62) Tetrachloroethene	6.789	166	122244	50.00	ug/L		95
63) 1,3-Dichloropropane	6.971	76	181121	50.00	ug/L		92
64) Dibromochloromethane	7.185	129	129242	50.00	ug/L		98
65) 1,2-Dibromoethane	7.314	107	108267	50.00	ug/L		97
66) 1-Chlorohexane	7.785	91	175461	50.00	ug/L		92
67) Chlorobenzene	7.806	112	363383	50.00	ug/L		89
68) 1,1,1,2-Tetrachloroethane	7.908	131	131724	50.00	ug/L		98
69) Ethylbenzene	7.897	91	604763	50.00	ug/L		98
70) m,p-Xylene	8.020	106	496360	100.00	ug/L		90
71) o-Xylene	8.394	106	241033	50.00	ug/L		93
72) Xylene (Total)	8.020	106	737592m	149.98	ug/L		
73) Styrene	8.421	104	410712	50.00	ug/L		95
74) Bromoform	8.598	173	85091	50.00	ug/L		97

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

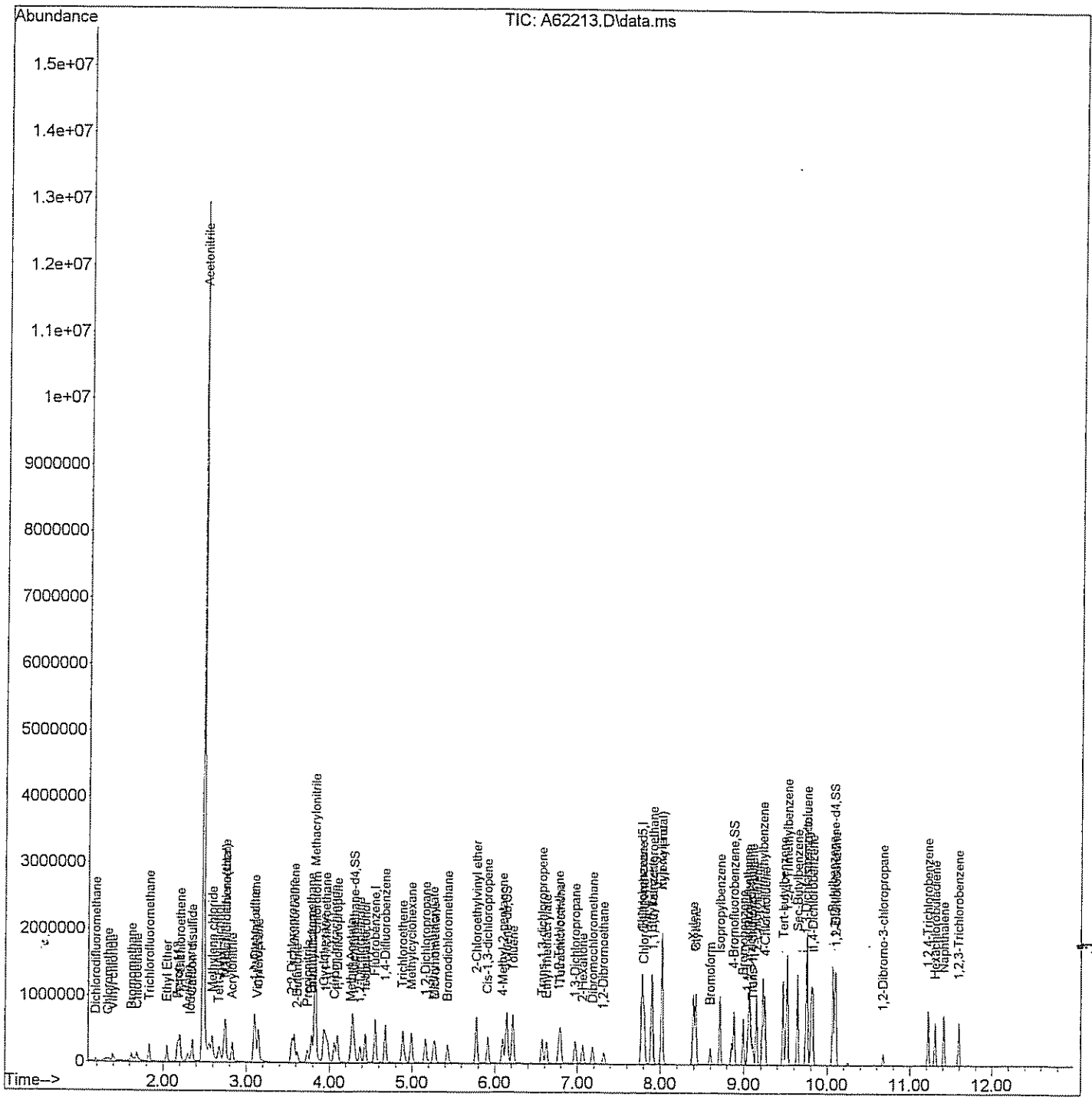
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	521416	50.00	ug/L		97
77) Bromobenzene	8.994	156	142716	50.00	ug/L		100
78) 1,1,2,2-Tetrachloroethane	9.047	83	142875	50.00	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	41981	50.00	ug/L		97
80) n-Propylbenzene	9.063	91	719141	50.00	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	43806	50.00	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	154063	50.00	ug/L		86
83) 4-Chlorotoluene	9.250	126	156819	50.00	ug/L		92
84) 1,3,5-Trimethylbenzene	9.224	105	514134	50.00	ug/L		95
85) Tert-butylbenzene	9.470	119	450241	50.00	ug/L		97
87) 1,2,4-Trimethylbenzene	9.518	105	528715	50.00	ug/L		93
88) Sec-Butylbenzene	9.641	105	692528	50.00	ug/L		99
89) 1,3-Dichlorobenzene	9.743	146	296768	50.00	ug/L		98
90) 4-Isopropyltoluene	9.753	119	604752	50.00	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	300653	50.00	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	276122	50.00	ug/L		97
94) n-Butylbenzene	10.058	91	560174	50.00	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	24817	50.00	ug/L	#	78
96) 1,2,4-Trichlorobenzene	11.219	180	167452	50.00	ug/L		99
97) Hexachlorobutadiene	11.305	225	78952	50.00	ug/L		100
98) Naphthalene	11.412	128	442312	50.00	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	145394	50.00	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

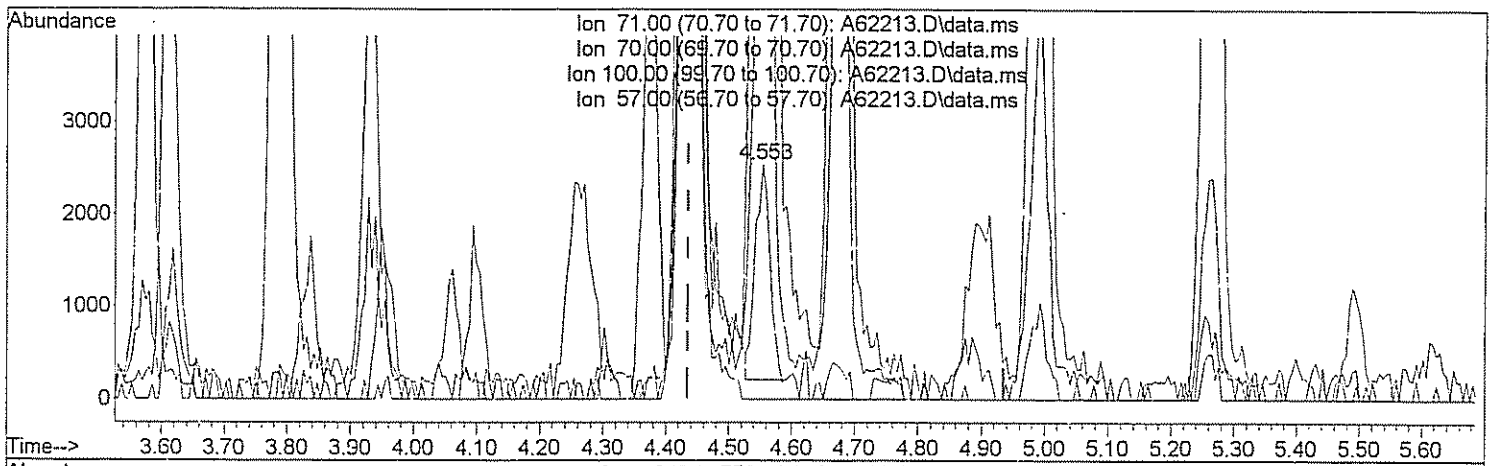
Quant Time: Mar 17 07:31:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration

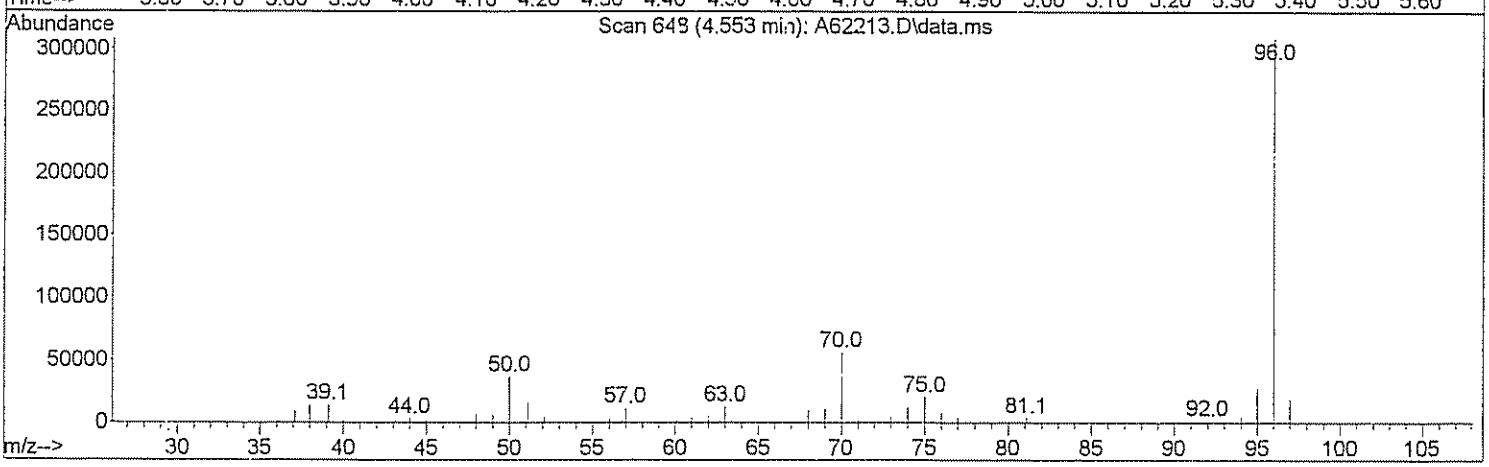


Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration





TIC: A62213.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.13 ug/L

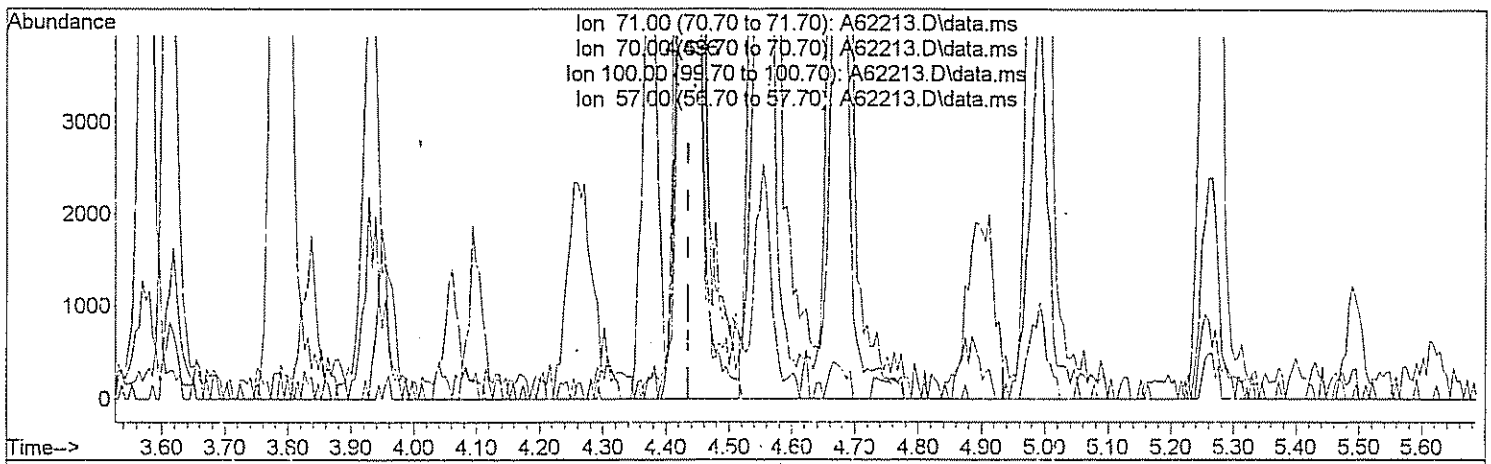
response 3811

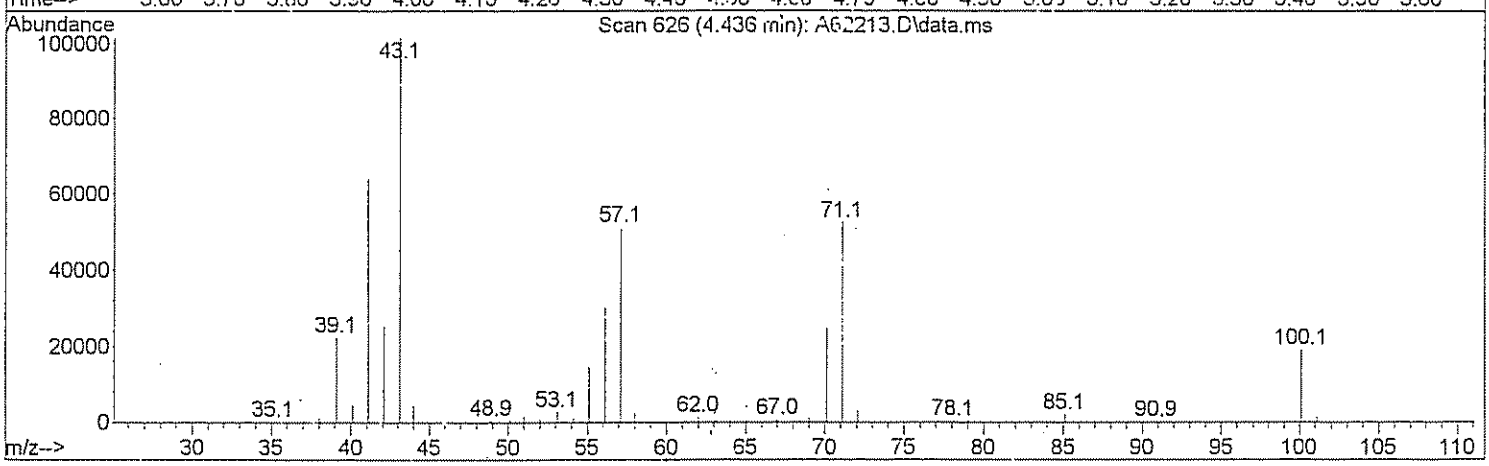
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	2353.53#
100.00	62.00	0.00#
57.00	40.00	501.02#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration





TIC: A62213.D\data.ms

(26) n-Heptane (T)

4.436min (0.000) 49.81 ug/L m Sm 3/16/09

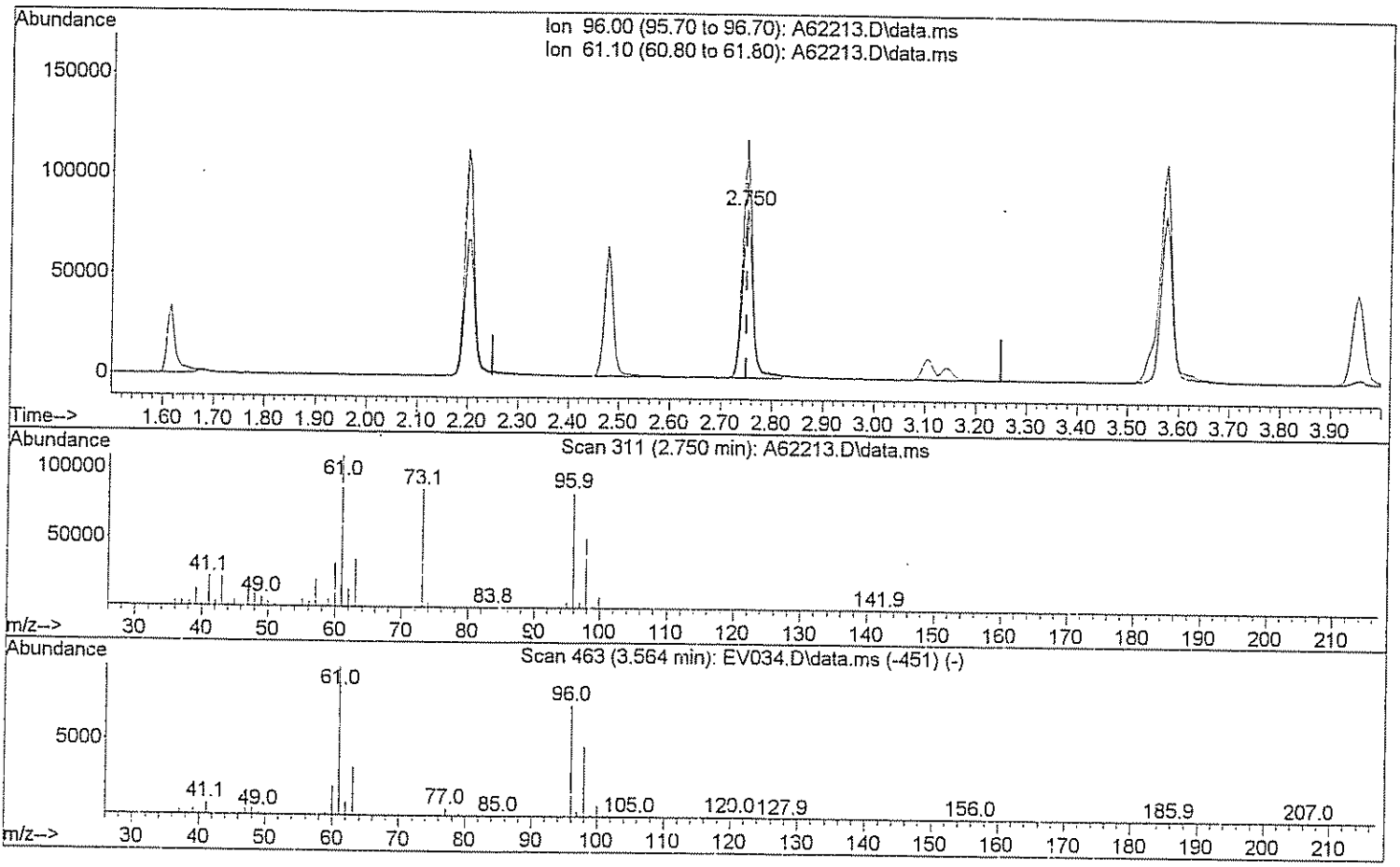
response 89309

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	100.43#
100.00	62.00	0.00#
57.00	40.00	21.38#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (0.000) 45.53 ug/L

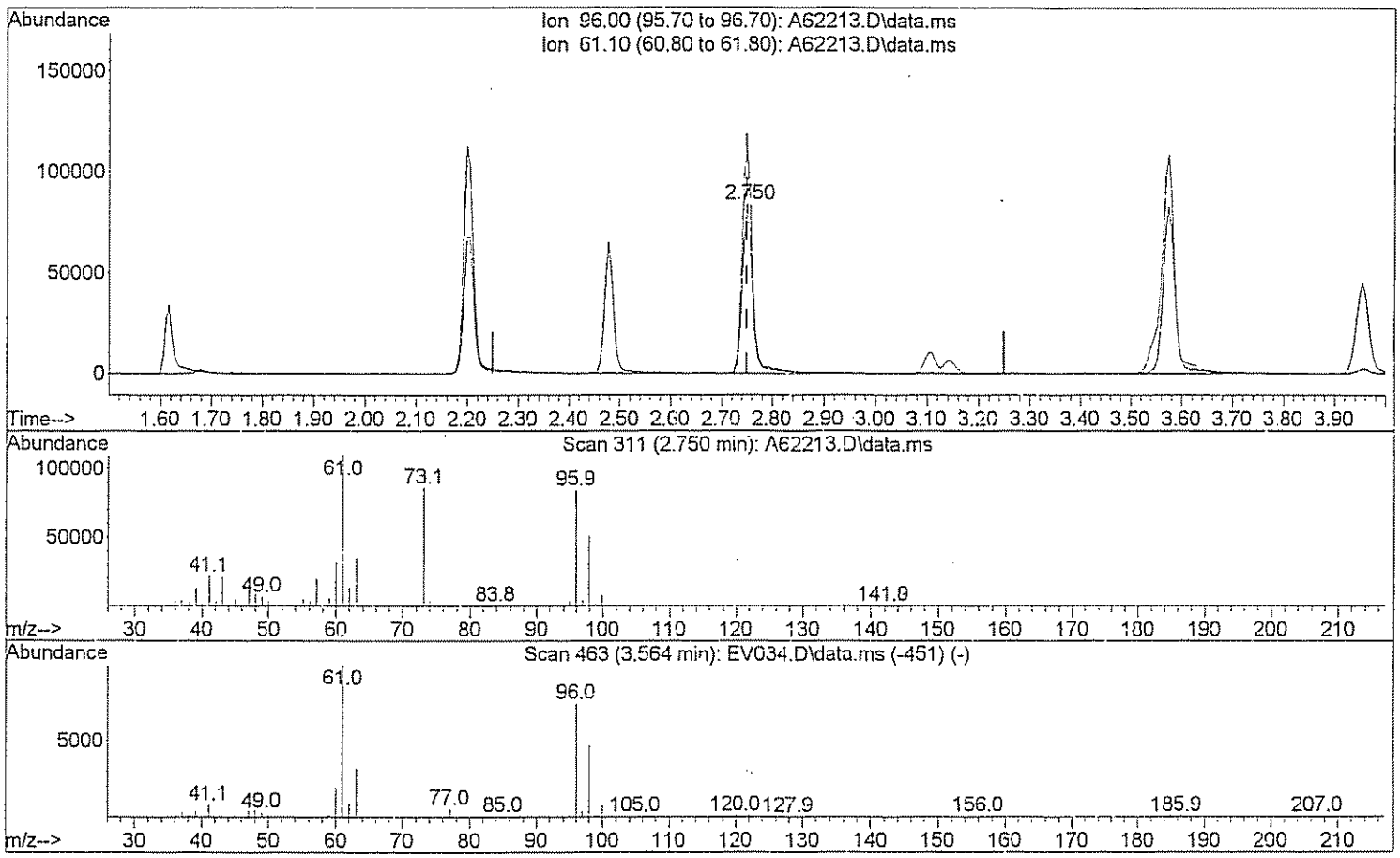
response 114422

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (0.000) 99.75 ug/L m SM 3/16/09

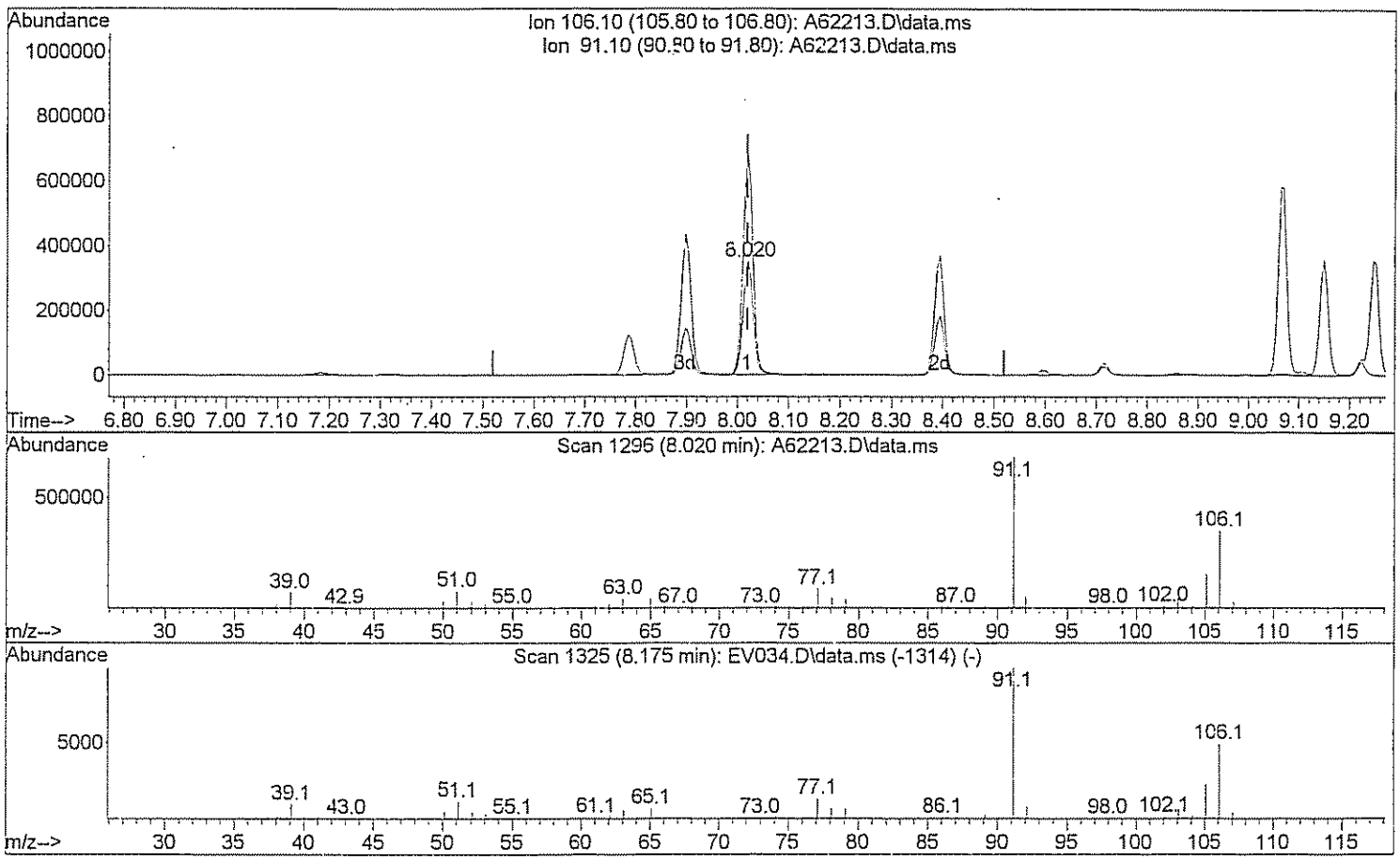
response 250709

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	63.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 100.93 ug/L

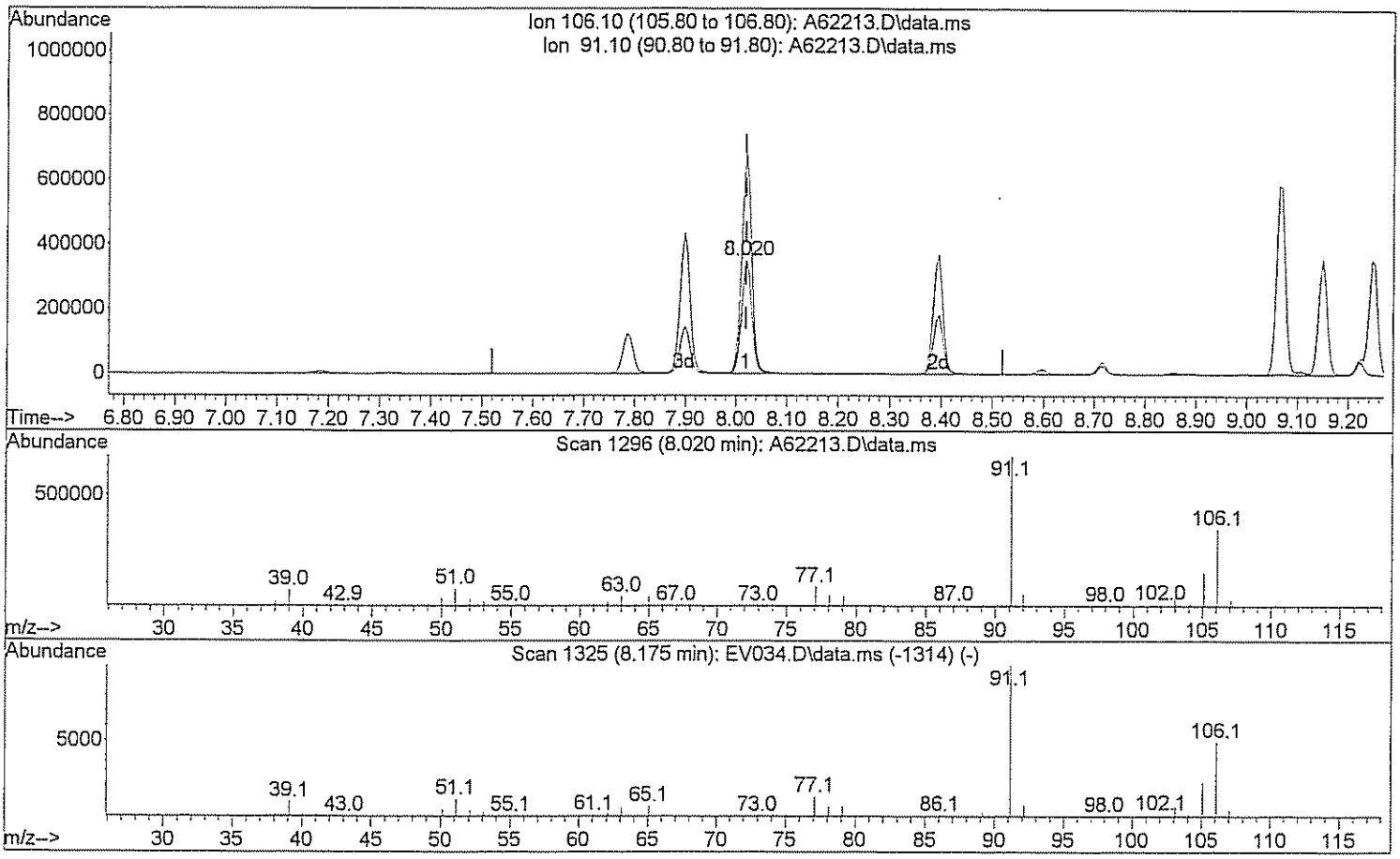
response 496360

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62213.D
Acq On : 10 Mar 2009 11:44
Operator : SM
Sample : CAL50
Misc : CAL50
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 17 07:30:55 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:29:58 2009
Response via : Initial Calibration



TIC: A62213.D\data.ms

(72) Xylene (Total)

8.020min (0.000) 149.98 ug/L m

response 737592

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.33#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	488113	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	402895	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	382461	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	129184	50.02	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.04%				
54) Toluene-d8	6.142	98	474149	50.80	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 101.60%				
76) 4-Bromofluorobenzene	8.881	95	182324	49.93	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.86%				
92) 1,2-Dichlorobenzene-d4	10.090	152	186080m	52.27	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 104.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	101899	106.98	ug/L		99
3) Chloromethane	1.327	50	155403	109.78	ug/L		99
4) Vinyl chloride	1.392	62	209191	101.65	ug/L		97
5) Bromomethane	1.616	94	111043	145.49	ug/L		87
6) Chloroethane	1.681	64	137679	99.05	ug/L		93
7) Trichlorofluoromethane	1.825	101	300088	106.02	ug/L		98
8) Ethyl Ether	2.044	59	183503	99.21	ug/L		96
9) Freon 113	2.173	101	180697	112.15	ug/L		89
10) Acrolein	2.189	56	170559	487.02	ug/L	#	74
11) Tert-Butyl alcohol	2.681	59	410388	1627.41	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	188294	102.49	ug/L		90
13) Iodomethane	2.328	142	241226	271.45	ug/L		98
14) Acetonitrile	2.478	40	1358379	1123.82	ug/L	#	1
15) Methylene chloride	2.590	84	229545	104.74	ug/L		100
16) Trans-1,2-dichloroethene	2.750	96	224781	104.14	ug/L		88
17) Isopropyl ether	3.093	45	872545	102.27	ug/L		100
18) 1,1-Dichloroethane	3.109	63	420716	104.83	ug/L		98
19) Acetone	2.301	43	164150	185.35	ug/L		96
20) Methyl Acetate	4.264	43	66527	26.61	ug/L	#	100
21) MTBE	2.740	73	589661	99.10	ug/L		100
22) Carbon disulfide	2.349	76	627594	105.31	ug/L		100
24) Acrylonitrile	2.836	53	303172	464.89	ug/L		100
25) Chloroprene	3.146	53	388959	112.65	ug/L		91
26) n-Heptane	4.436	71	179679m	106.65	ug/L		
27) 2,2-Dichloropropane	3.553	77	331997	101.97	ug/L	#	74
28) Cis-1,2-dichloroethene	3.580	96	256374	103.77	ug/L		97

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.580	96	484745m	204.99 ug/L	
30) Propionitrile	3.740	54	307367	899.20 ug/L	100
31) Bromochloromethane	3.783	128	119161	102.97 ug/L	91
32) Tetrahydrofuran	3.794	72	47686	88.07 ug/L #	1
33) Chloroform	3.842	83	435779	111.90 ug/L	97
34) Cyclohexane	3.933	56	385205	110.11 ug/L	94
35) 1,1,1-Trichloroethane	3.960	97	334582	102.84 ug/L	98
36) Carbon tetrachloride	4.061	117	302357	106.77 ug/L	99
37) Methacrylonitrile	3.831	41	1721571	1007.87 ug/L #	20
38) Methylcyclohexane	4.992	83	363723	111.77 ug/L	93
39) Isobutyl Alcohol	4.436	43	336613	2171.62 ug/L	89
42) 2-Butanone	3.617	43	268048	179.66 ug/L	98
43) 1,1-Dichloropropene	4.099	75	303893	101.89 ug/L	98
44) Vinyl Acetate	3.136	43	317561	98.31 ug/L	100
45) Benzene	4.281	78	931840	103.46 ug/L	100
46) 1,2-Dichloroethane	4.377	62	290421m	100.33 ug/L	
47) Trichloroethene	4.885	95	232664	103.80 ug/L	92
48) 1,2-Dichloropropane	5.163	63	245860	102.29 ug/L	97
49) Methyl methacrylate	5.265	69	148916	92.01 ug/L	96
50) Dibromomethane	5.281	93	138697	97.93 ug/L	98
51) Bromodichloromethane	5.431	83	302833	99.87 ug/L	100
52) 2-Chloroethylvinyl ether	5.778	63	184535	138.86 ug/L	97
53) Cis-1,3-dichloropropene	5.918	75	379910	100.47 ug/L	98
55) Toluene	6.217	92	614952	103.11 ug/L	97
56) Trans-1,3-dichloropropene	6.570	75	335781	96.32 ug/L	98
57) Ethyl methacrylate	6.624	69	288818	98.31 ug/L	96
58) 1,1,2-Trichloroethane	6.773	83	175100	98.66 ug/L	97
60) 4-Methyl-2-pentanone	6.099	43	441380	179.51 ug/L	99
61) 2-Hexanone	7.068	43	327869	180.31 ug/L	99
62) Tetrachloroethene	6.795	166	248012	106.43 ug/L	95
63) 1,3-Dichloropropane	6.977	76	337277	97.69 ug/L	92
64) Dibromochloromethane	7.185	129	247971	100.65 ug/L	99
65) 1,2-Dibromoethane	7.319	107	203221	98.47 ug/L	98
66) 1-Chlorohexane	7.790	91	337355	100.86 ug/L	92
67) Chlorobenzene	7.811	112	714834	103.20 ug/L	87
68) 1,1,1,2-Tetrachloroethane	7.908	131	261629	104.19 ug/L	96
69) Ethylbenzene	7.902	91	1209808	104.94 ug/L	99
70) m,p-Xylene	8.025	106	991494	209.58 ug/L	90
71) o-Xylene	8.394	106	476964	103.81 ug/L	93
72) Xylene (Total)	8.025	106	1471853m	314.04 ug/L	
73) Styrene	8.427	104	812237	103.74 ug/L	95
74) Bromoform	8.598	173	152829	94.22 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration

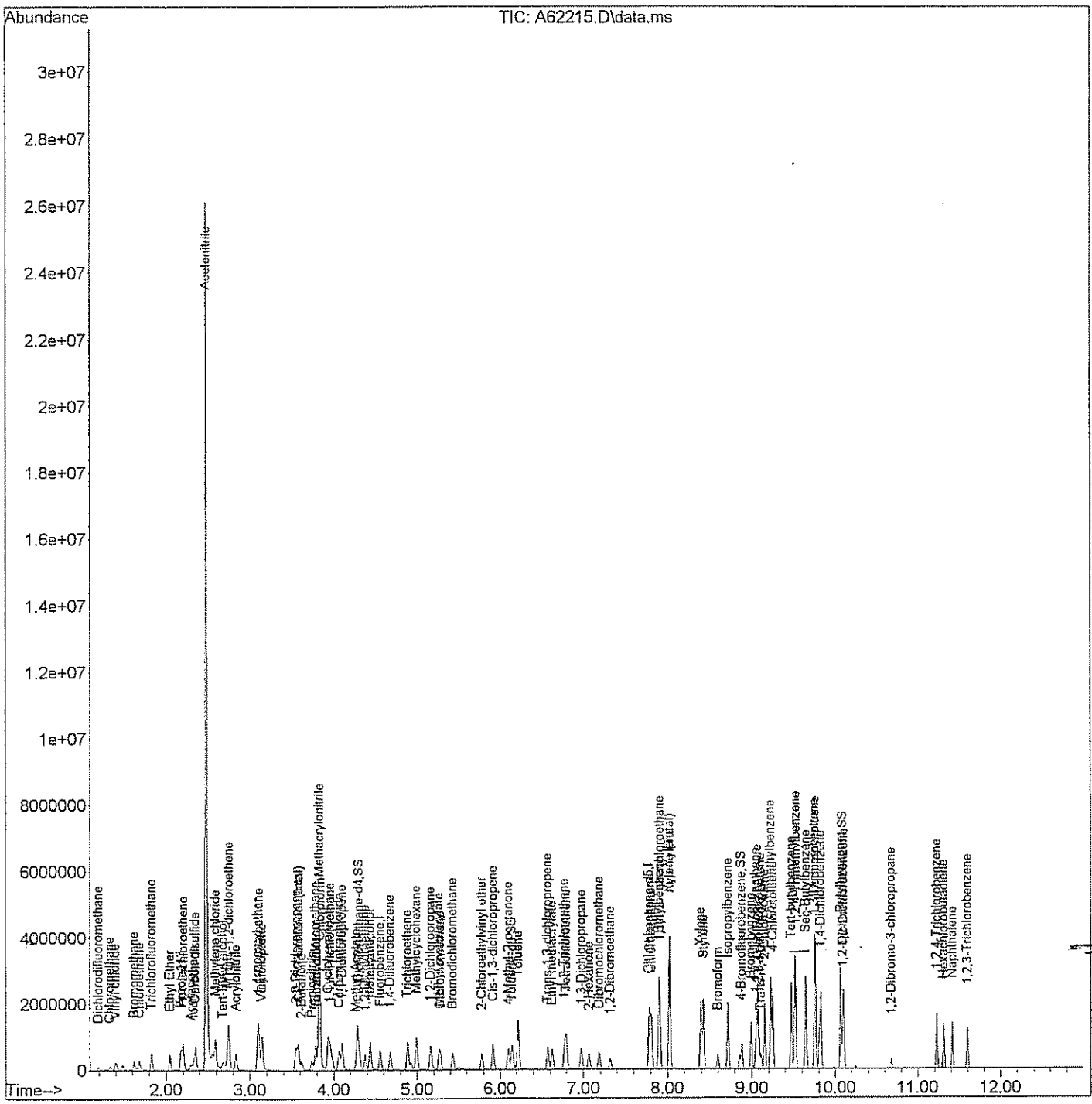
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	1046010	105.24	ug/L		99
77) Bromobenzene	8.994	156	282960	104.01	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.052	83	259312	95.21	ug/L		100
79) 1,2,3-Trichloropropane	9.085	110	75218	93.99	ug/L		99
80) n-Propylbenzene	9.068	91	1417344	103.39	ug/L		98
81) Trans-1,4-dichloro-2-b...	9.106	53	56785	68.00	ug/L	#	23
82) 2-Chlorotoluene	9.154	126	296723	101.04	ug/L		89
83) 4-Chlorotoluene	9.250	126	310968	104.02	ug/L		93
84) 1,3,5-Trimethylbenzene	9.224	105	1047309	106.86	ug/L		95
85) Tert-butylbenzene	9.470	119	914746	106.58	ug/L		96
87) 1,2,4-Trimethylbenzene	9.523	105	1084517	107.61	ug/L		94
88) Sec-Butylbenzene	9.641	105	1404375	106.38	ug/L		99
89) 1,3-Dichlorobenzene	9.748	146	614964	108.71	ug/L		99
90) 4-Isopropyltoluene	9.759	119	1255344	108.89	ug/L		98
91) 1,4-Dichlorobenzene	9.823	146	612216	106.82	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	578388	109.88	ug/L		99
94) n-Butylbenzene	10.064	91	1147680	107.48	ug/L		96
95) 1,2-Dibromo-3-chloropr...	10.679	75	43888	92.77	ug/L	#	78
96) 1,2,4-Trichlorobenzene	11.224	180	346038	108.41	ug/L		98
97) Hexachlorobutadiene	11.305	225	164609	109.37	ug/L		98
98) Naphthalene	11.412	128	790325	93.73	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	284128	102.51	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

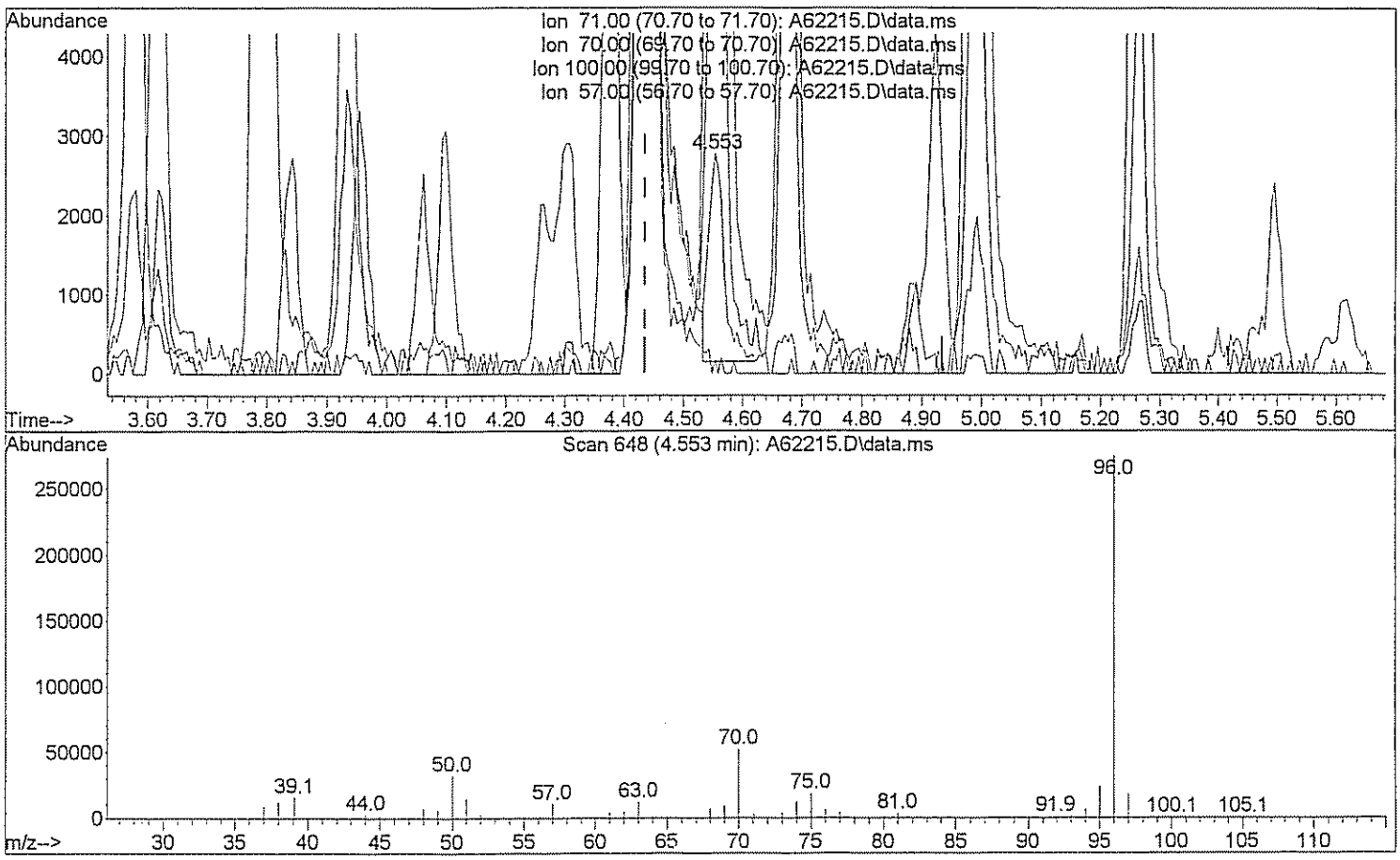
Quant Time: Mar 17 07:35:02 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(26) n-Heptane (T)

4.553min (+0.118) 2.89 ug/L

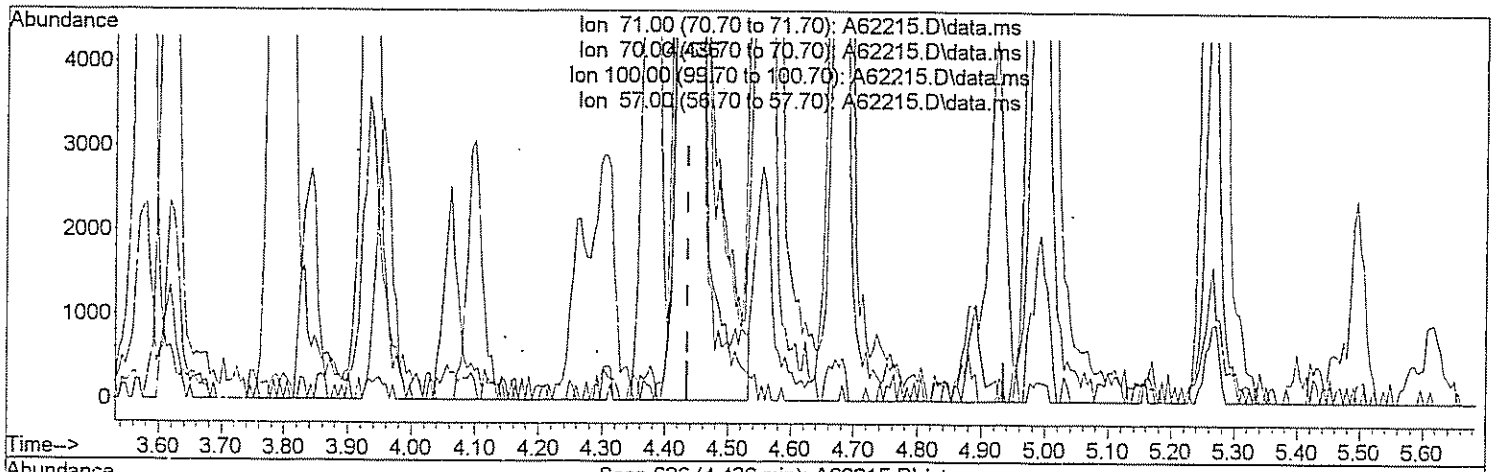
response 4871

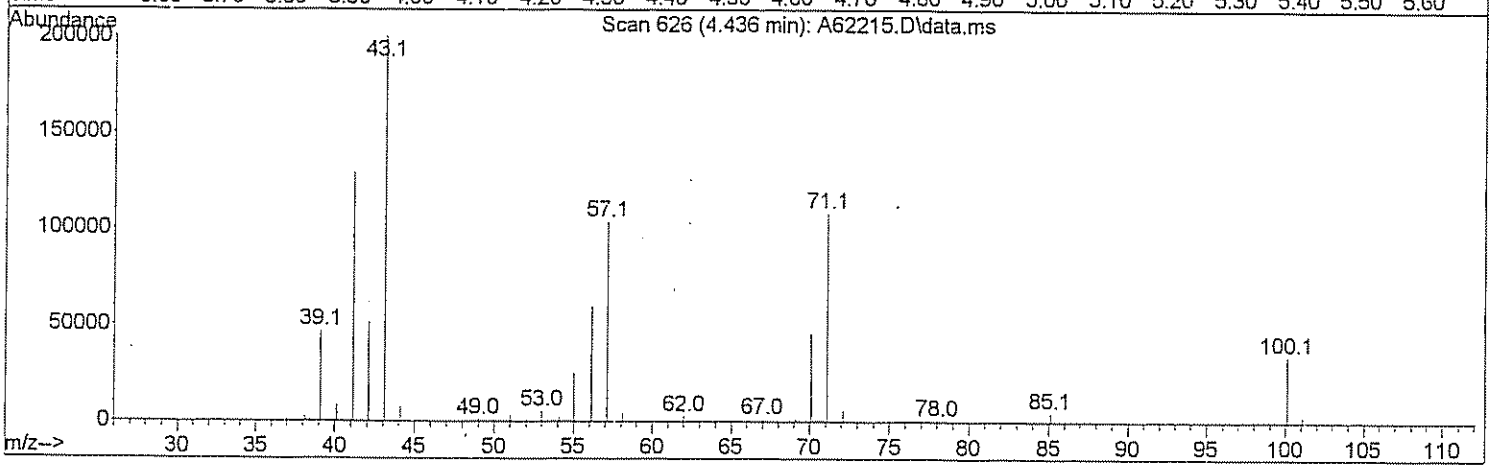
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1781.01#
100.00	62.00	0.00#
57.00	40.00	395.26#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration





TIC: A62215.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 106.65 ug/L m Sm 3/16/09

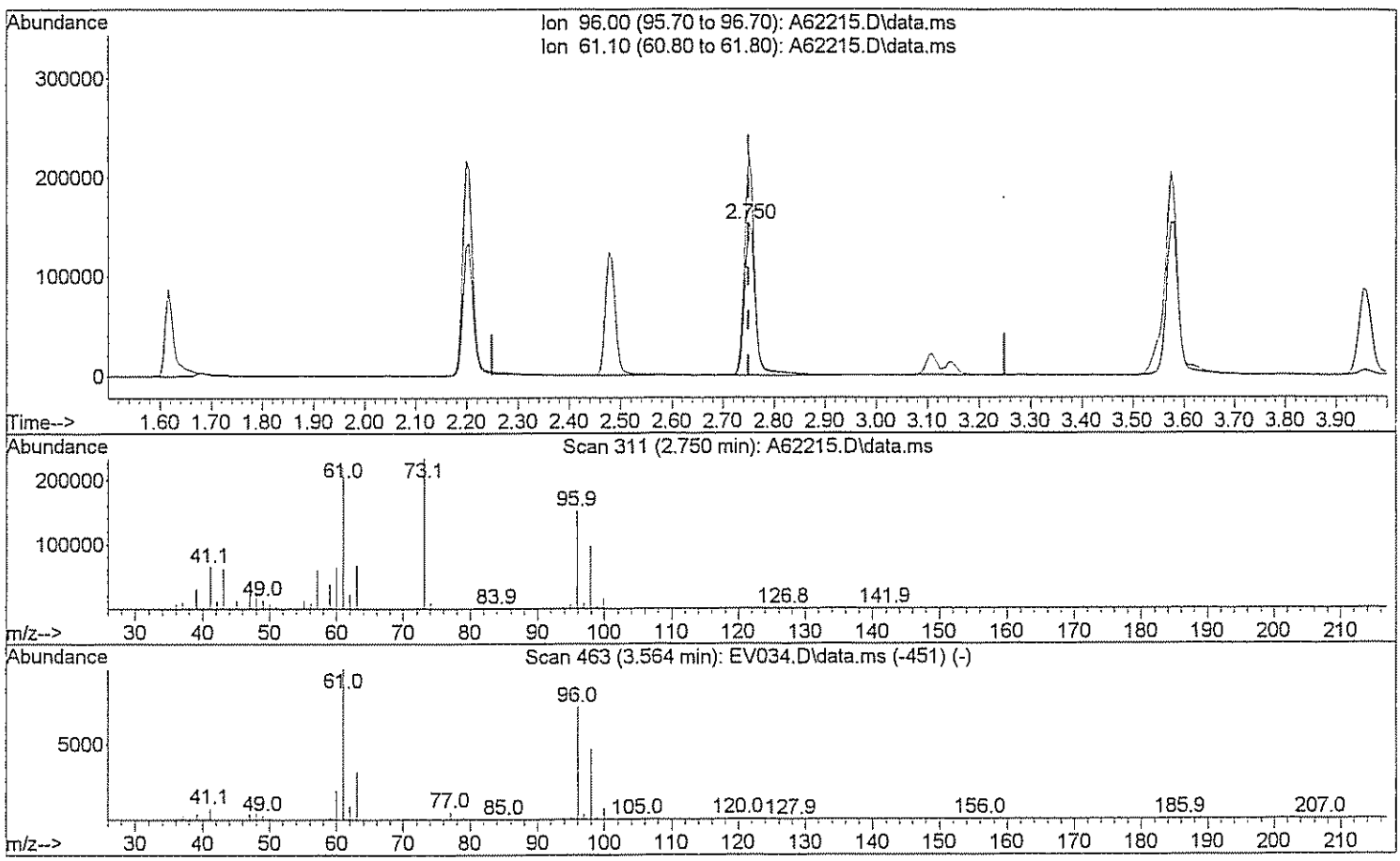
response 179679

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	48.28#
100.00	62.00	0.00#
57.00	40.00	10.72#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (+0.000) 95.05 ug/L

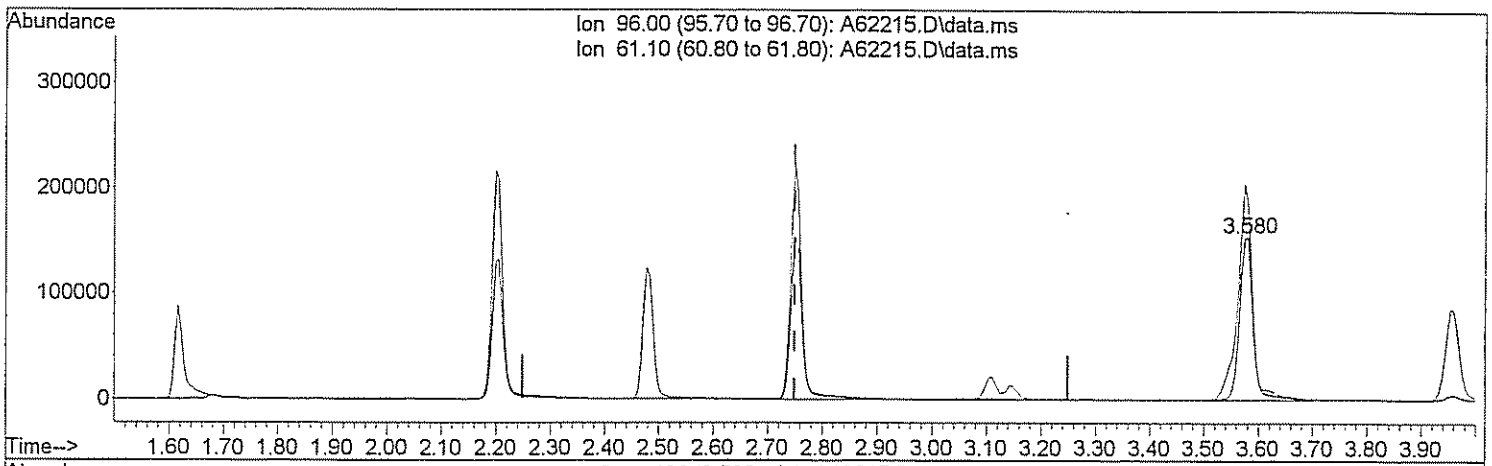
response 224781

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	139.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(29) 1,2-dichloroethene(total)

3.580min (+0.829) 204.99 ug/L m DW3/16/09

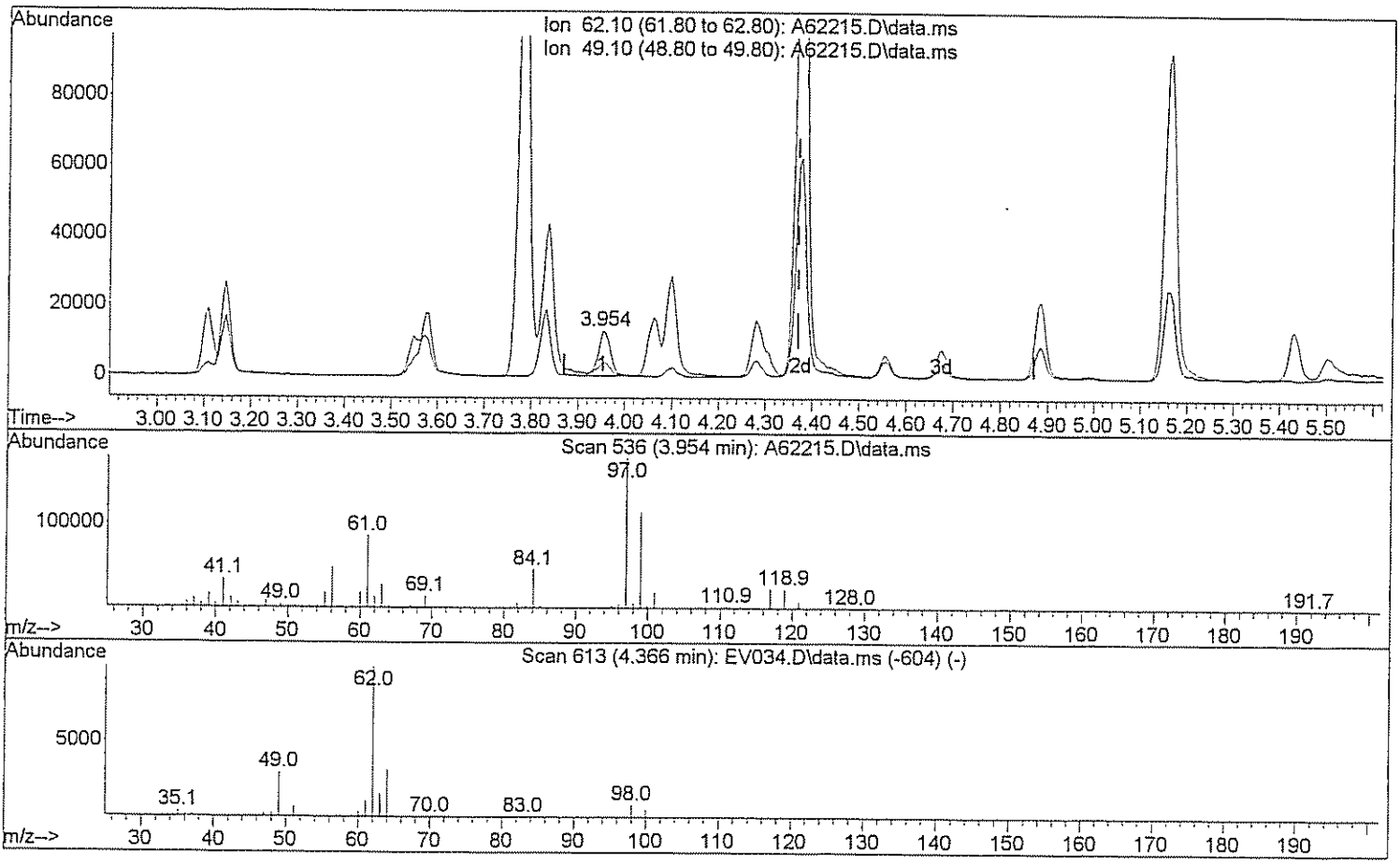
response 484745

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	64.83#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(46) 1,2-Dichloroethane

3.954min (-0.417) 7.81 ug/L

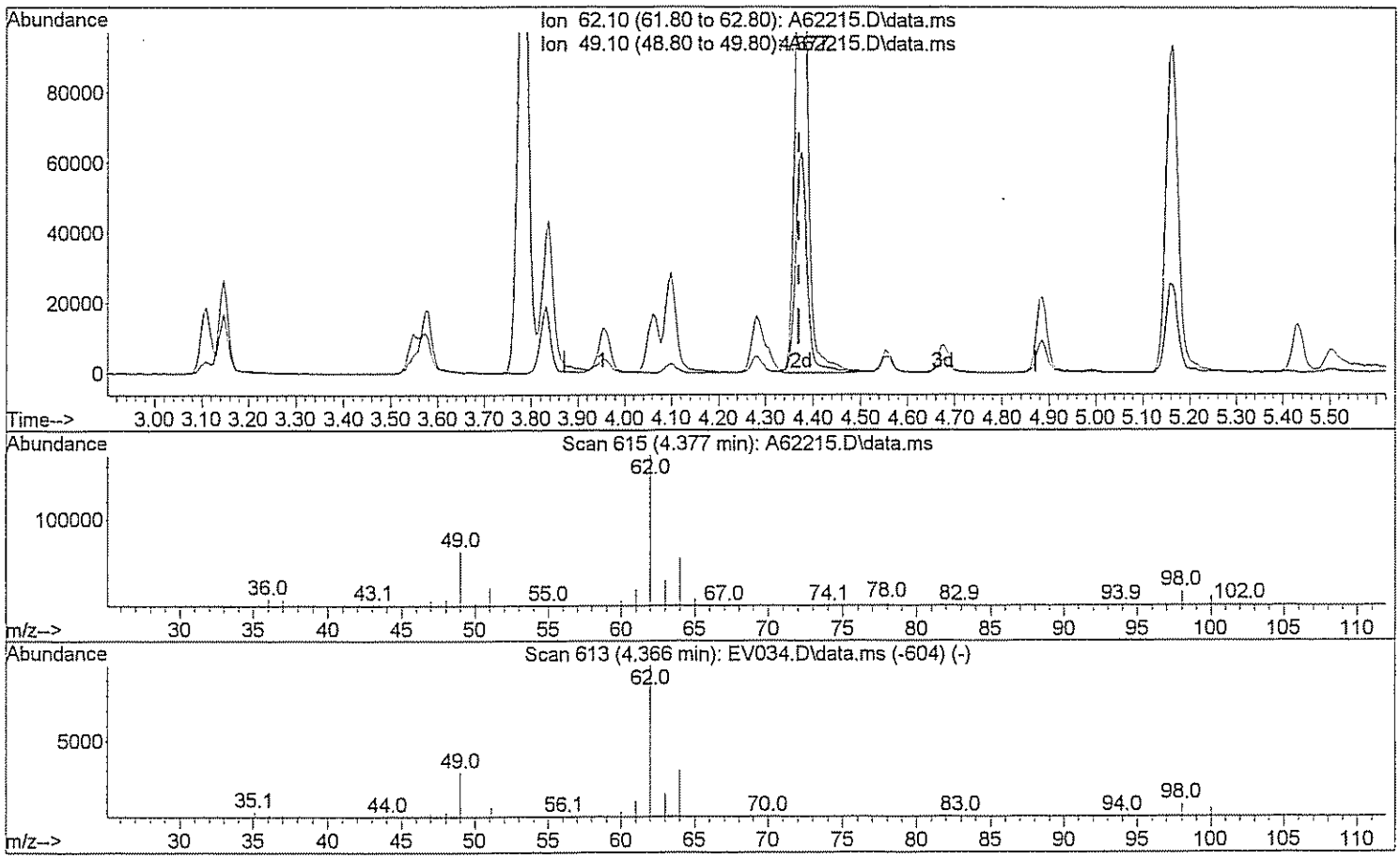
response 22614

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	33.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(46) 1,2-Dichloroethane

4.377min (+0.005) 100.33 ug/L m DM 3/16/09

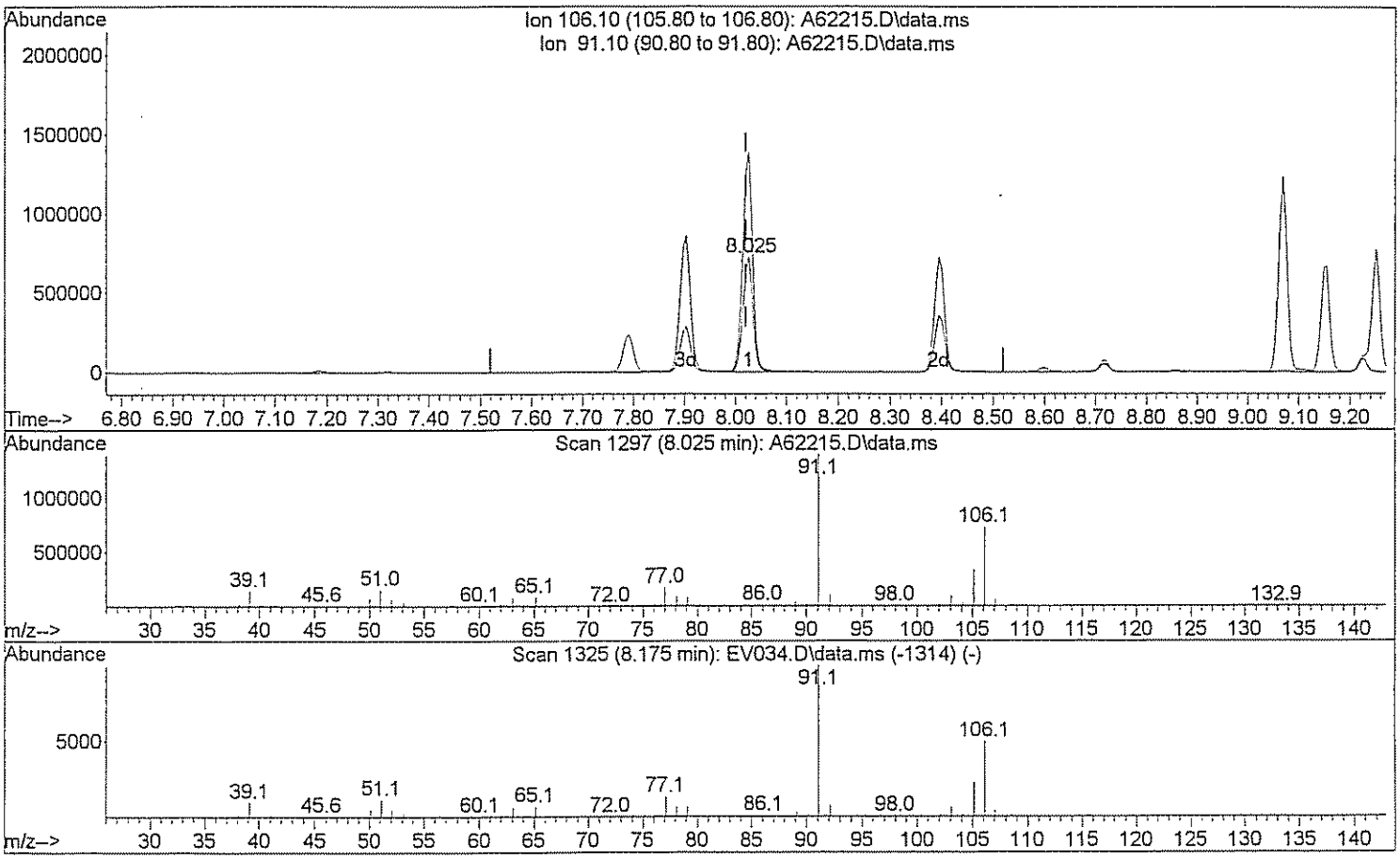
response 290421

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(72) Xylene (Total)

8.025min (+0.005) 211.55 ug/L

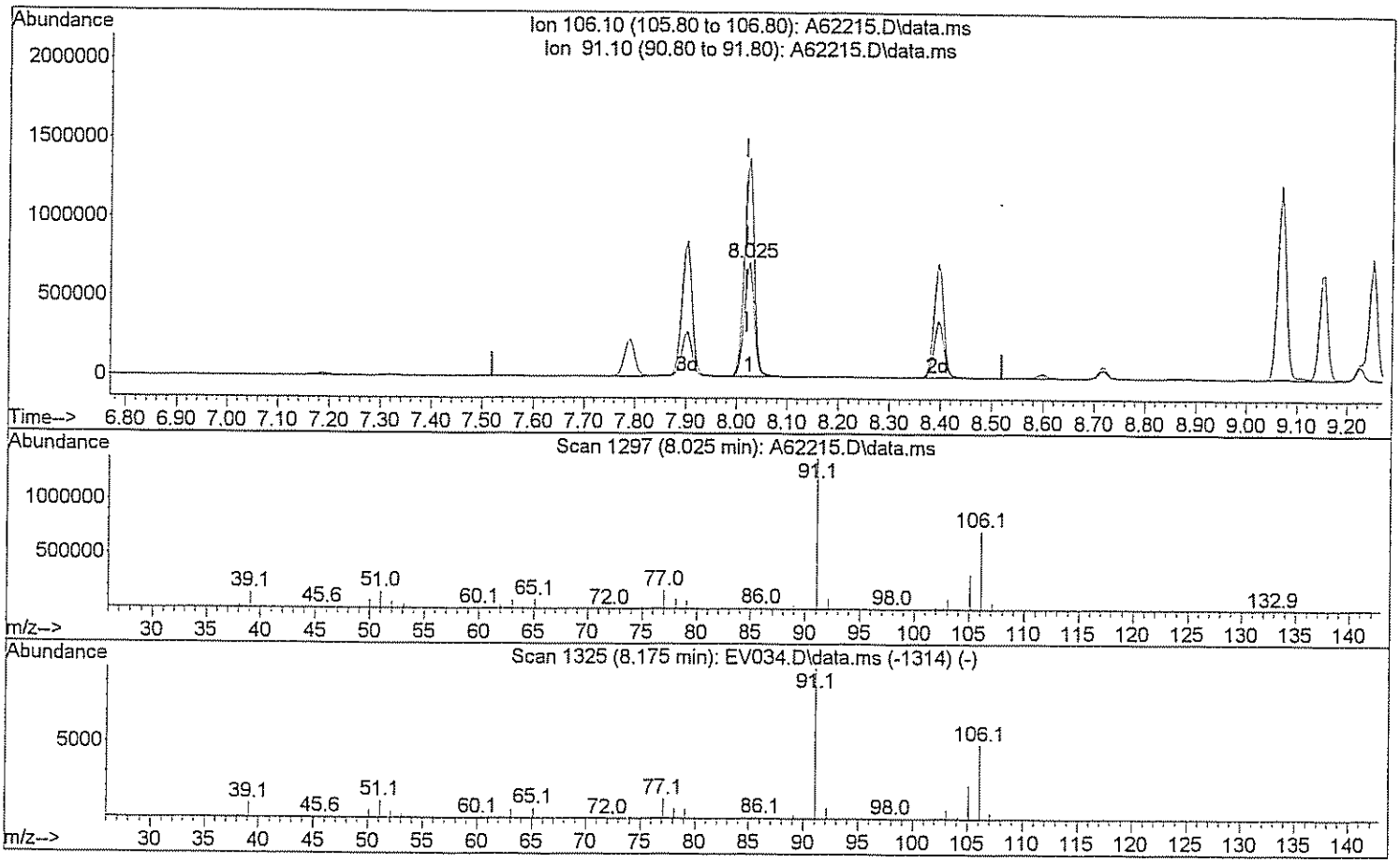
response 991494

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	193.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(72) Xylene (Total)

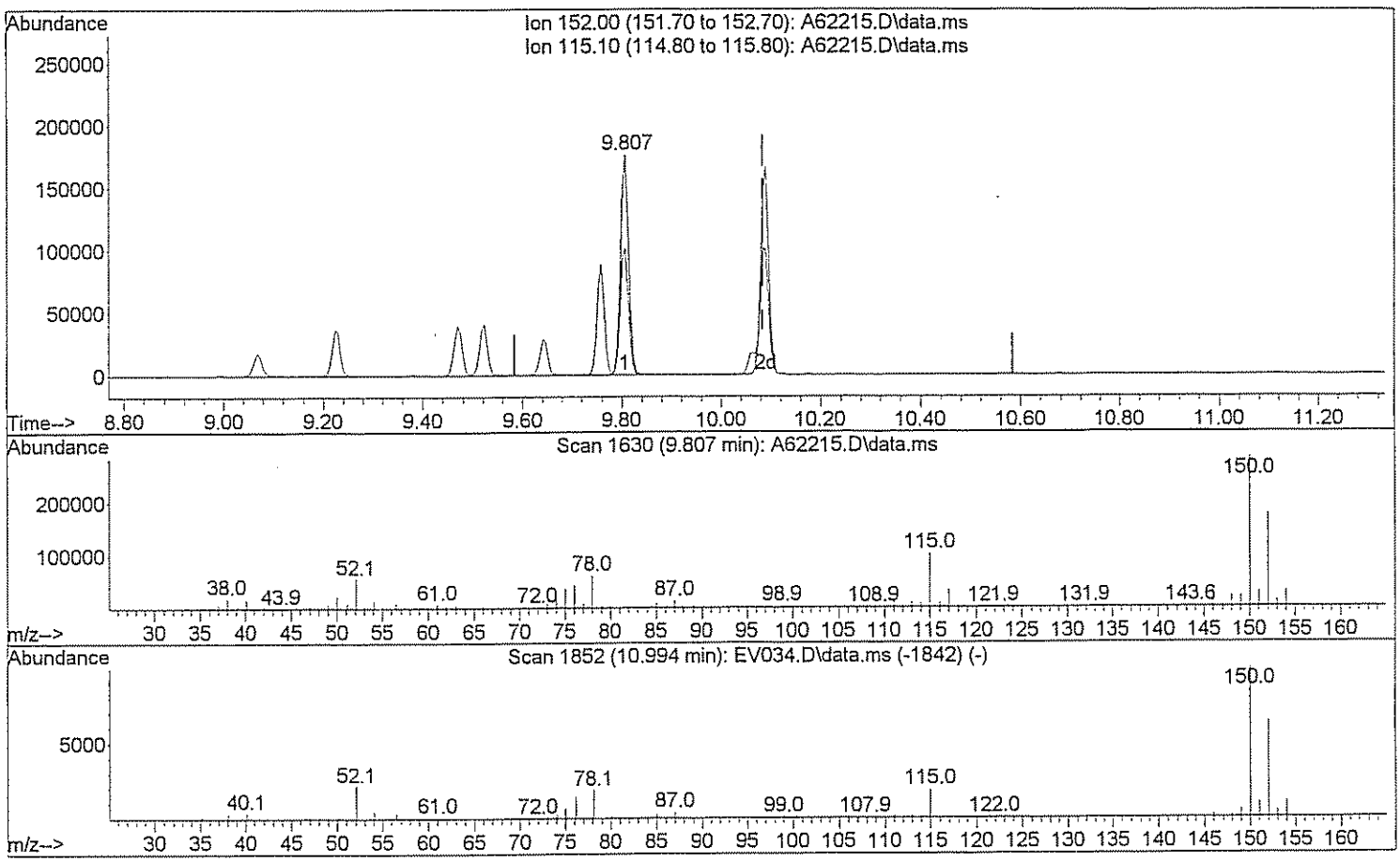
8.025min (+0.005) 314.04 ug/L m AM 3/16/09

response 1471853

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	130.22#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.278) 55.06 ug/L

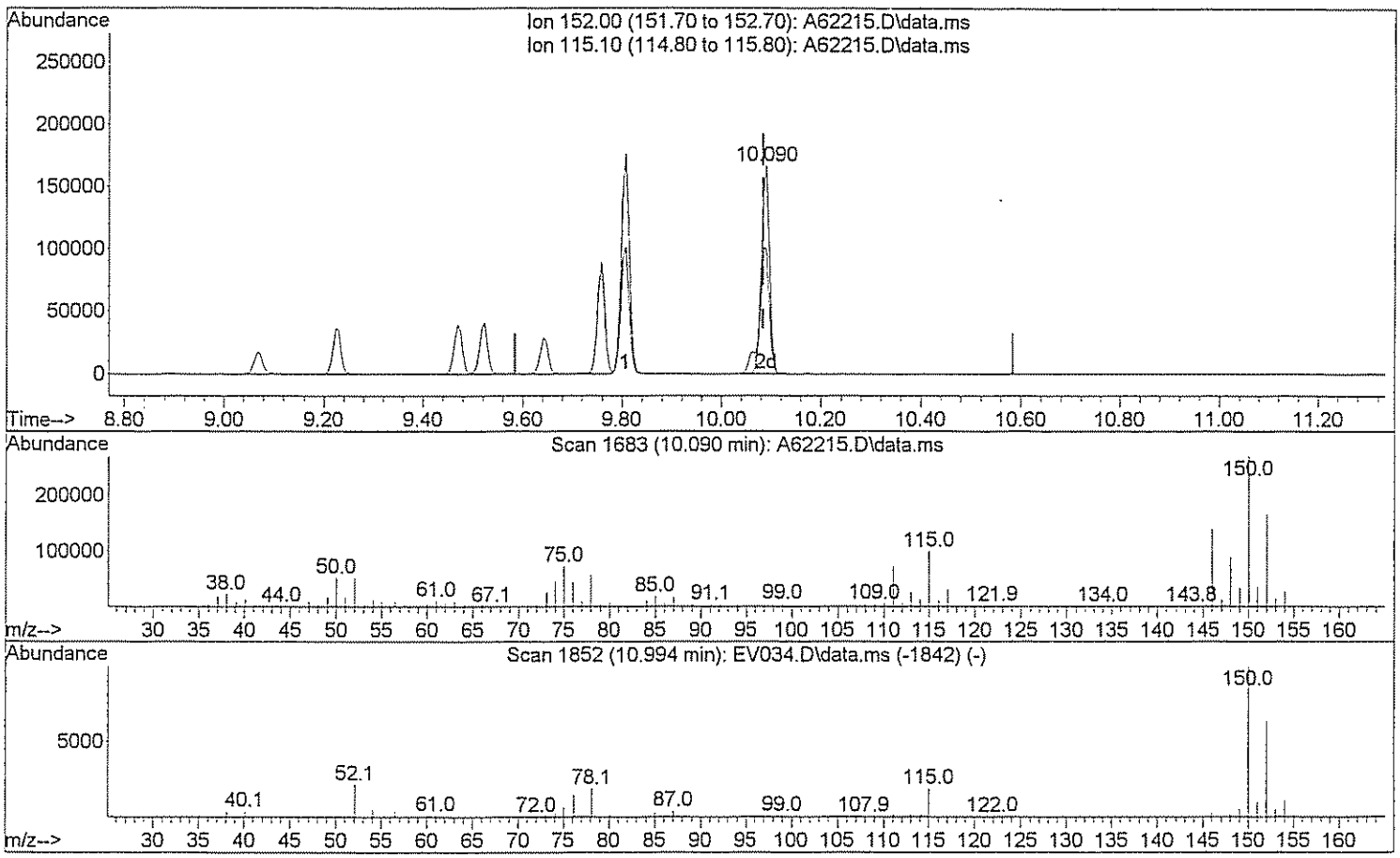
response 196008

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	58.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62215.D
Acq On : 10 Mar 2009 12:49
Operator : SM
Sample : CAL100
Misc : CAL100
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 17 07:33:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:32:19 2009
Response via : Initial Calibration



TIC: A62215.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.005) 52.27 ug/L m

response 186080

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	61.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	451792	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	368065	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.785	117	369201	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	127289	53.24	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.48%				
54) Toluene-d8	6.148	98	448303	52.16	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.32%				
76) 4-Bromofluorobenzene	8.887	95	171713	48.75	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.50%				
92) 1,2-Dichlorobenzene-d4	10.090	152	179334m	51.02	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.04%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	163283	185.20	ug/L		99
3) Chloromethane	1.328	50	359762	261.78	ug/L		94
4) Vinyl chloride	1.392	62	387193	201.61	ug/L		97
5) Bromomethane	1.611	94	202436	233.46	ug/L		92
6) Chloroethane	1.675	64	284270	222.01	ug/L		99
7) Trichlorofluoromethane	1.809	101	811281	300.62	ug/L		99
8) Ethyl Ether	2.044	59	371482	217.85	ug/L		98
9) Freon 113	2.162	101	297997	199.83	ug/L		93
10) Acrolein	2.194	56	364103	1138.03	ug/L	#	65
11) Tert-Butyl alcohol	2.702	59	300740	1420.82	ug/L	#	47
12) 1,1-Dichloroethene	2.194	96	365174	212.11	ug/L		90
13) Iodomethane	2.323	142	290902	190.43	ug/L		96
14) Acetonitrile	2.472	40	2492691	2098.16	ug/L	#	1
15) Methylene chloride	2.585	84	439869	211.83	ug/L		98
16) Trans-1,2-dichloroethene	2.745	96	440274	215.90	ug/L		88
17) Isopropyl ether	3.098	45	1680957	210.47	ug/L		97
18) 1,1-Dichloroethane	3.104	63	800890	210.51	ug/L		100
19) Acetone	2.312	43	312363	395.54	ug/L		97
20) Methyl Acetate	4.270	43	87097	59.46	ug/L	#	100
21) MTBE	2.745	73	1194298	217.83	ug/L		100
22) Carbon disulfide	2.339	76	1152952	203.62	ug/L		100
24) Acrylonitrile	2.836	53	640901	1100.42	ug/L		99
25) Chloroprene	3.141	53	692315	203.74	ug/L		91
26) n-Heptane	4.436	71	299522m	185.89	ug/L		
27) 2,2-Dichloropropane	3.548	77	610873	200.73	ug/L	#	68
28) Cis-1,2-dichloroethene	3.574	96	462197	198.38	ug/L		90

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.745	96	940669m	424.47	ug/L		
30) Propionitrile	3.751	54	646001	2150.18	ug/L		98
31) Bromochloromethane	3.783	128	232724	214.09	ug/L		93
32) Tetrahydrofuran	3.794	72	106842	226.71	ug/L	#	1
33) Chloroform	3.842	83	899112	235.43	ug/L		98
34) Cyclohexane	3.933	56	656554	193.01	ug/L		93
35) 1,1,1-Trichloroethane	3.960	97	656121	214.83	ug/L		99
36) Carbon tetrachloride	4.061	117	564740	208.40	ug/L		100
37) Methacrylonitrile	3.842	41	3847918	2424.27	ug/L	#	26
38) Methylcyclohexane	4.992	83	574234	180.05	ug/L		99
39) Isobutyl Alcohol	4.436	43	542821	3783.48	ug/L		91
42) 2-Butanone	3.623	43	524768	405.64	ug/L		100
43) 1,1-Dichloropropene	4.099	75	560845	203.91	ug/L		98
44) Vinyl Acetate	3.136	43	568872	194.42	ug/L		97
45) Benzene	4.281	78	1755663	209.75	ug/L		100
46) 1,2-Dichloroethane	4.377	62	553129	208.82	ug/L	#	86
47) Trichloroethene	4.885	95	424939	203.65	ug/L		92
48) 1,2-Dichloropropane	5.163	63	448805	202.08	ug/L		97
49) Methyl methacrylate	5.270	69	297322	209.45	ug/L		89
50) Dibromomethane	5.281	93	270802	211.48	ug/L		98
51) Bromodichloromethane	5.431	83	566453	204.62	ug/L		100
52) 2-Chloroethylvinyl ether	5.784	63	624995	764.27	ug/L		98
53) Cis-1,3-dichloropropene	5.918	75	722742	208.73	ug/L		99
55) Toluene	6.217	92	1188416	214.78	ug/L		98
56) Trans-1,3-dichloropropene	6.576	75	669322	214.11	ug/L		97
57) Ethyl methacrylate	6.629	69	567116	213.10	ug/L		95
58) 1,1,2-Trichloroethane	6.779	83	344109	213.67	ug/L		97
60) 4-Methyl-2-pentanone	6.105	43	884809	392.91	ug/L		97
61) 2-Hexanone	7.073	43	650280	389.64	ug/L		98
62) Tetrachloroethene	6.795	166	489859	210.98	ug/L		96
63) 1,3-Dichloropropane	6.977	76	661242	200.72	ug/L		92
64) Dibromochloromethane	7.185	129	493255	206.73	ug/L		98
65) 1,2-Dibromoethane	7.319	107	399950	202.30	ug/L		98
66) 1-Chlorohexane	7.790	91	644735	198.83	ug/L		92
67) Chlorobenzene	7.811	112	1366383	201.13	ug/L		87
68) 1,1,1,2-Tetrachloroethane	7.913	131	522187	211.01	ug/L		99
69) Ethylbenzene	7.902	91	2372752	208.07	ug/L		99
70) m,p-Xylene	8.025	106	2011769	430.21	ug/L		92
71) o-Xylene	8.400	106	914944	202.43	ug/L		95
72) Xylene (Total)	8.025	106	2931434m	633.11	ug/L		
73) Styrene	8.427	104	1565653	203.35	ug/L		95
74) Bromoform	8.603	173	308929	203.17	ug/L		99

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration

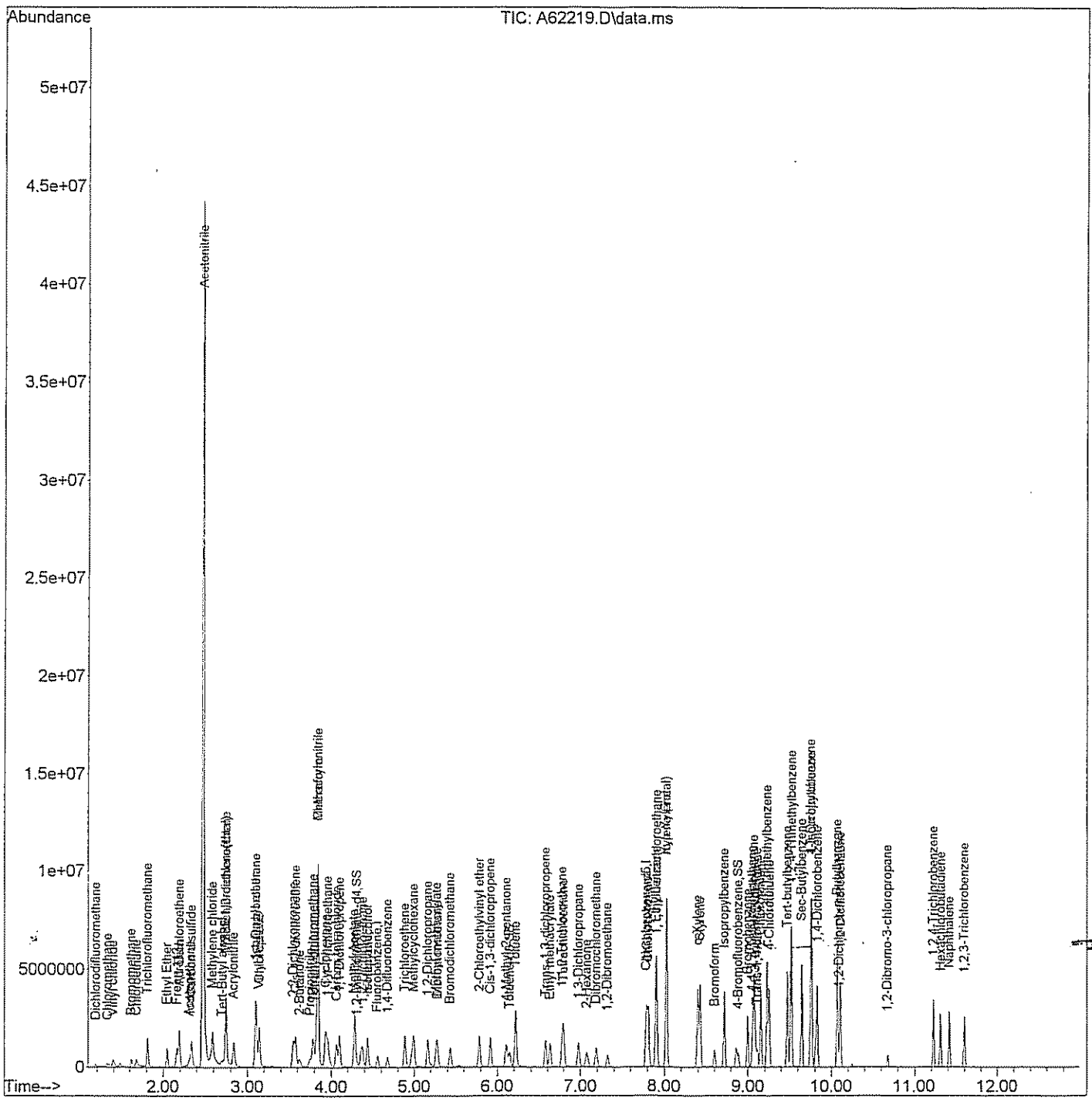
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.721	105	1988139	201.92	ug/L		99
77) Bromobenzene	8.999	156	546933	204.17	ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.053	83	512859	199.85	ug/L		99
79) 1,2,3-Trichloropropane	9.090	110	149522	199.55	ug/L		98
80) n-Propylbenzene	9.069	91	2717913	201.96	ug/L		99
81) Trans-1,4-dichloro-2-b...	9.111	53	130202	192.28	ug/L	#	1
82) 2-Chlorotoluene	9.154	126	558332	195.93	ug/L		88
83) 4-Chlorotoluene	9.256	126	595421	202.26	ug/L		94
84) 1,3,5-Trimethylbenzene	9.229	105	2006295	205.03	ug/L		96
85) Tert-butylbenzene	9.470	119	1756037	205.20	ug/L		97
87) 1,2,4-Trimethylbenzene	9.523	105	2156492	213.53	ug/L		94
88) Sec-Butylbenzene	9.646	105	2636165	200.47	ug/L		99
89) 1,3-Dichlorobenzene	9.753	146	1275620	223.84	ug/L		99
90) 4-Isopropyltoluene	9.759	119	2537819	218.34	ug/L		98
91) 1,4-Dichlorobenzene	9.828	146	1203750	210.40	ug/L		98
93) 1,2-Dichlorobenzene	10.106	146	1116199	209.33	ug/L		99
94) n-Butylbenzene	10.064	91	2146674	200.75	ug/L		95
95) 1,2-Dibromo-3-chloropr...	10.679	75	92731	210.67	ug/L		82
96) 1,2,4-Trichlorobenzene	11.224	180	710232	221.19	ug/L		99
97) Hexachlorobutadiene	11.310	225	331241	217.79	ug/L		99
98) Naphthalene	11.412	128	1644380	208.57	ug/L		100
99) 1,2,3-Trichlorobenzene	11.599	180	590974	218.14	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

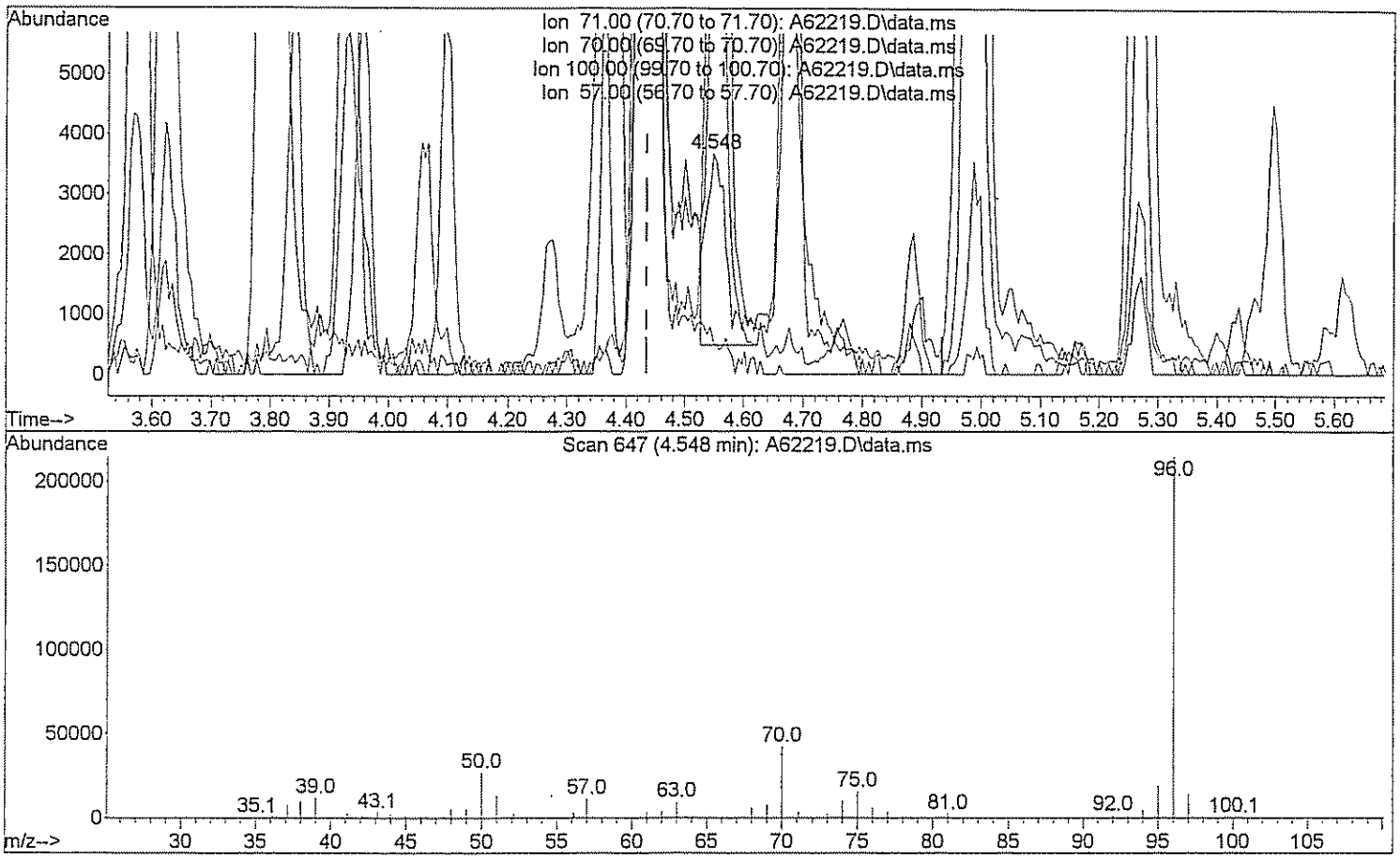
Quant Time: Mar 17 07:38:32 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(26) n-Heptane (T)

4.548min (+0.112) 4.62 ug/L

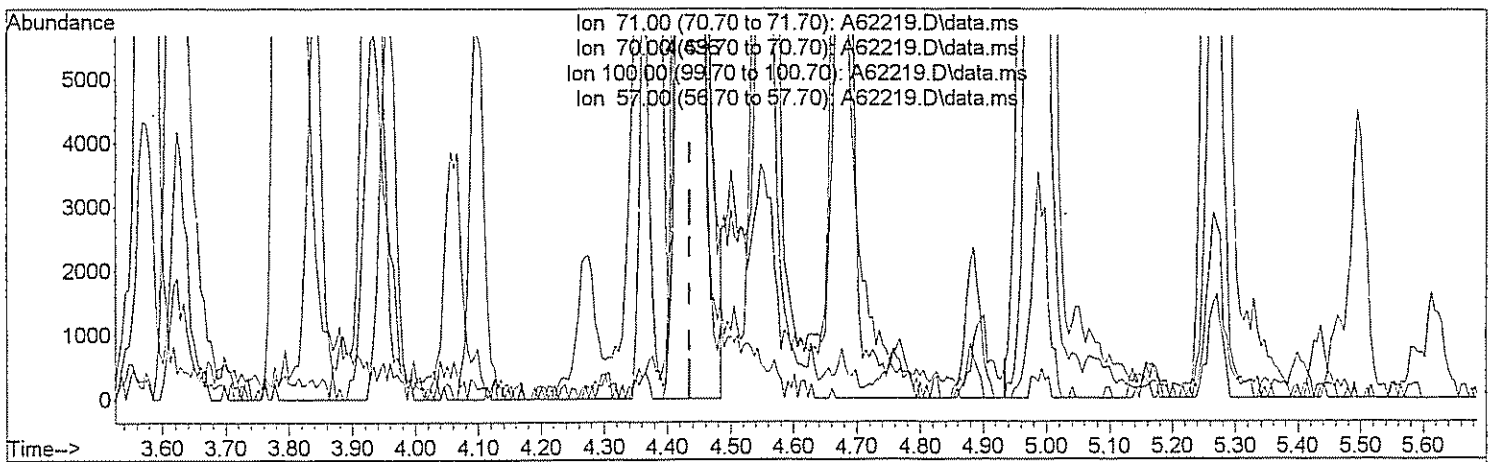
response 7438

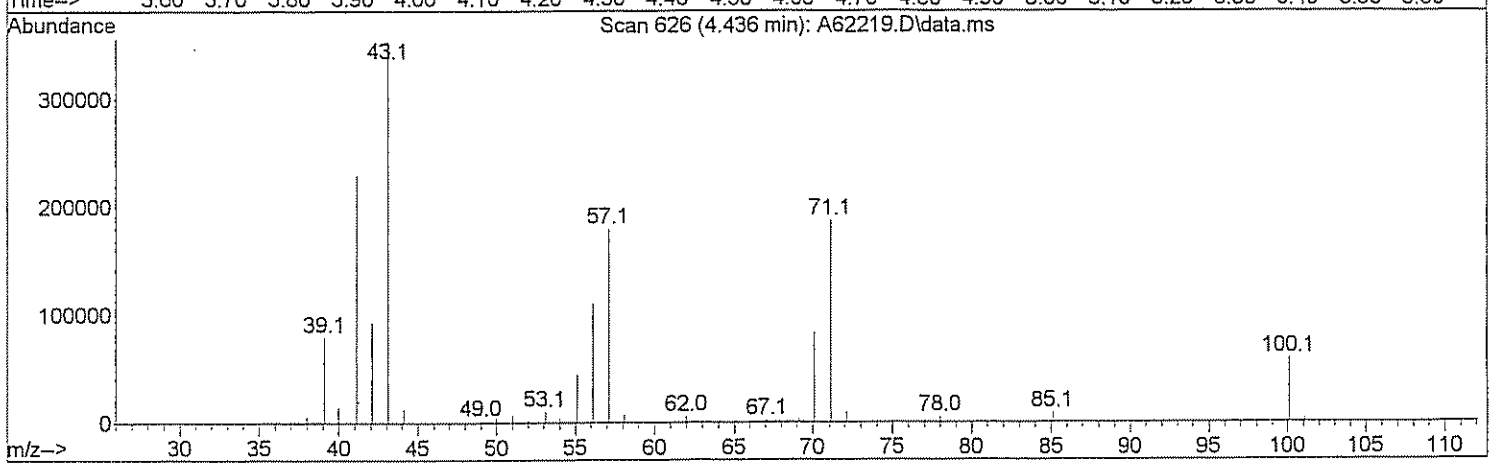
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1084.50#
100.00	62.00	0.00#
57.00	40.00	281.08#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration





TIC: A62219.D\data.ms

(26) n-Heptane (T)

4.436min (+0.000) 185.89 ug/L m Sm 3/17/09

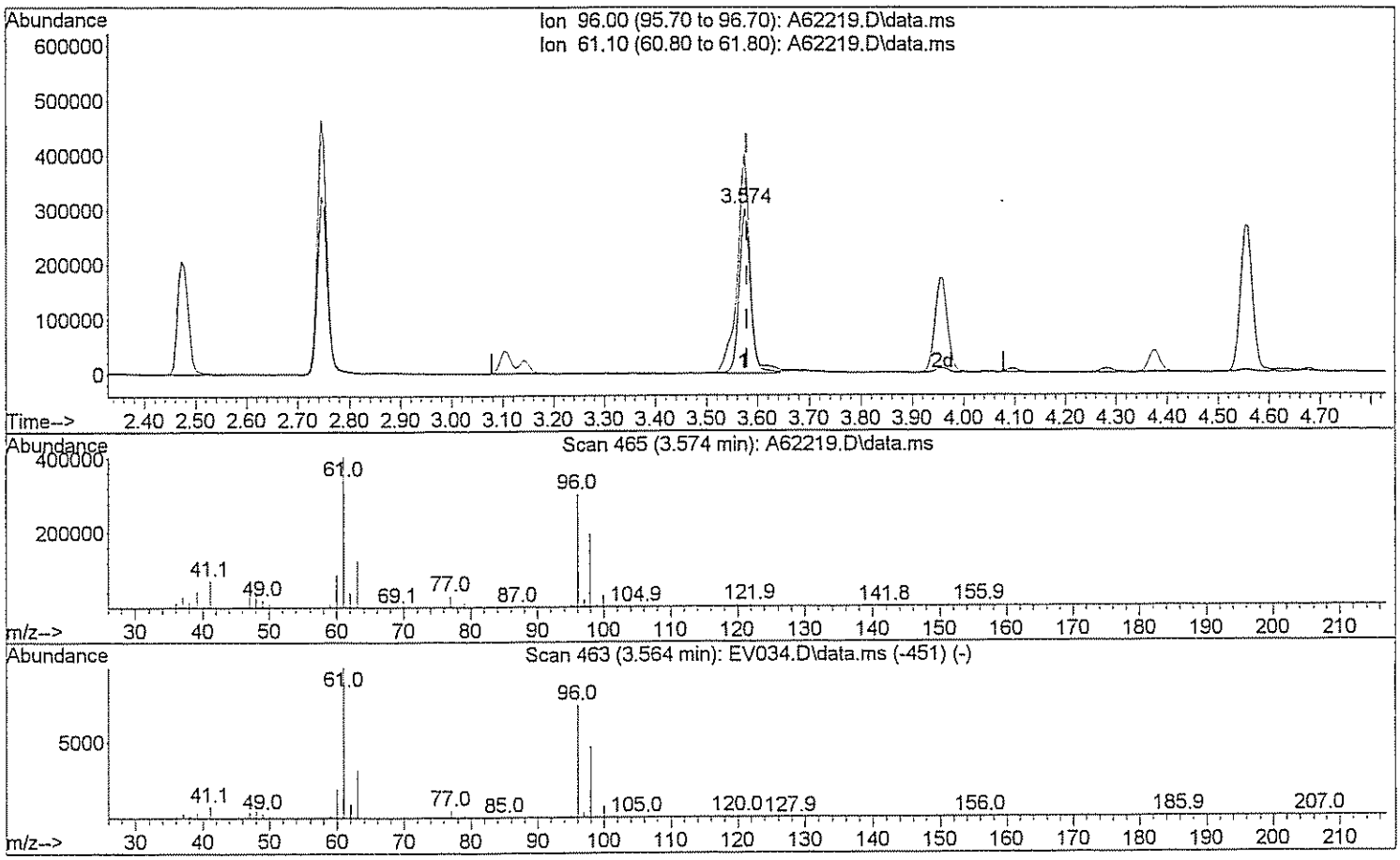
response 299522

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	26.93
100.00	62.00	0.00#
57.00	40.00	6.98#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (-0.005) 208.56 ug/L

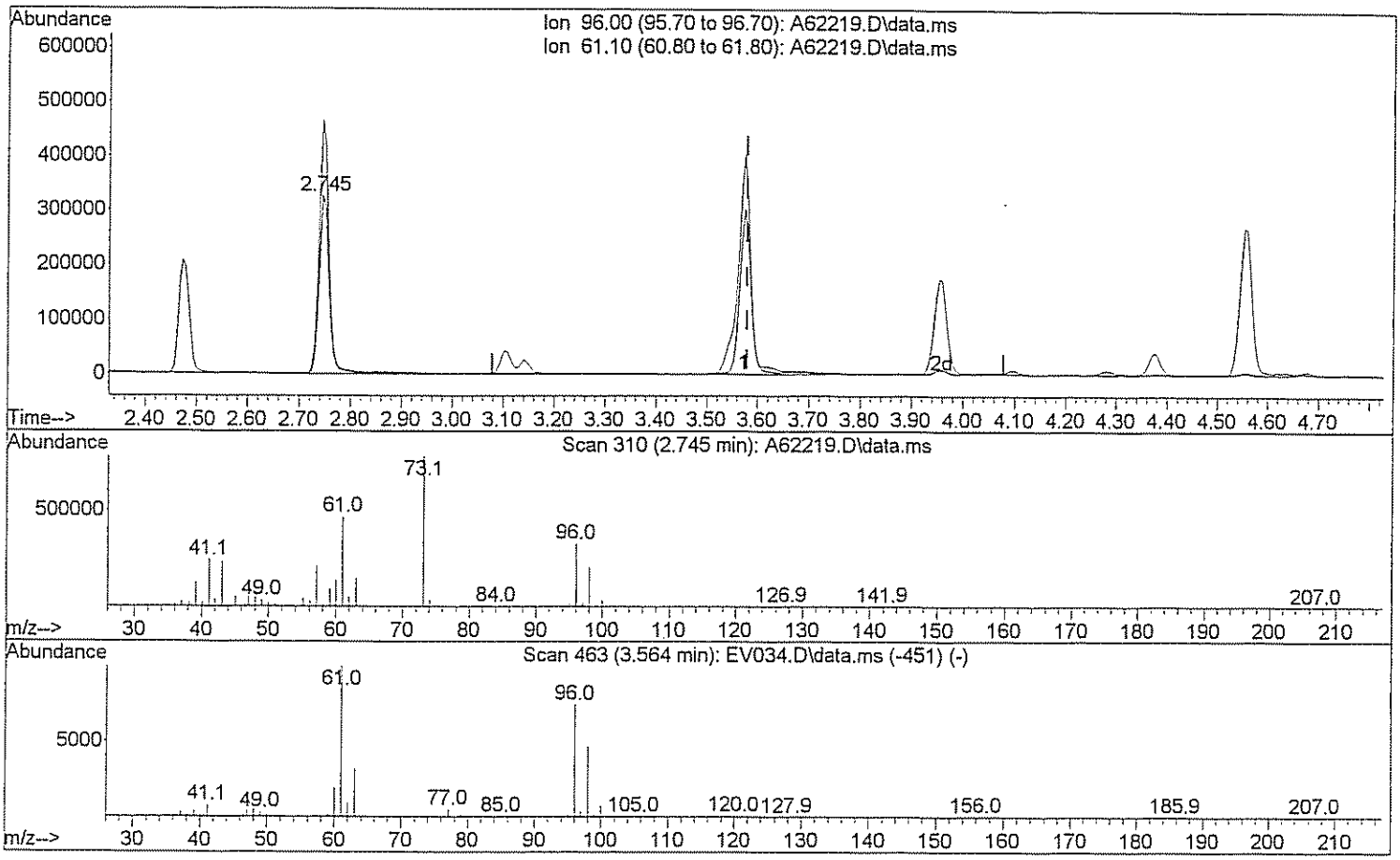
response 462197

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	155.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(29) 1,2-dichloroethene(total)

2.745min (-0.835) 424.47 ug/L m DW 3/17/09

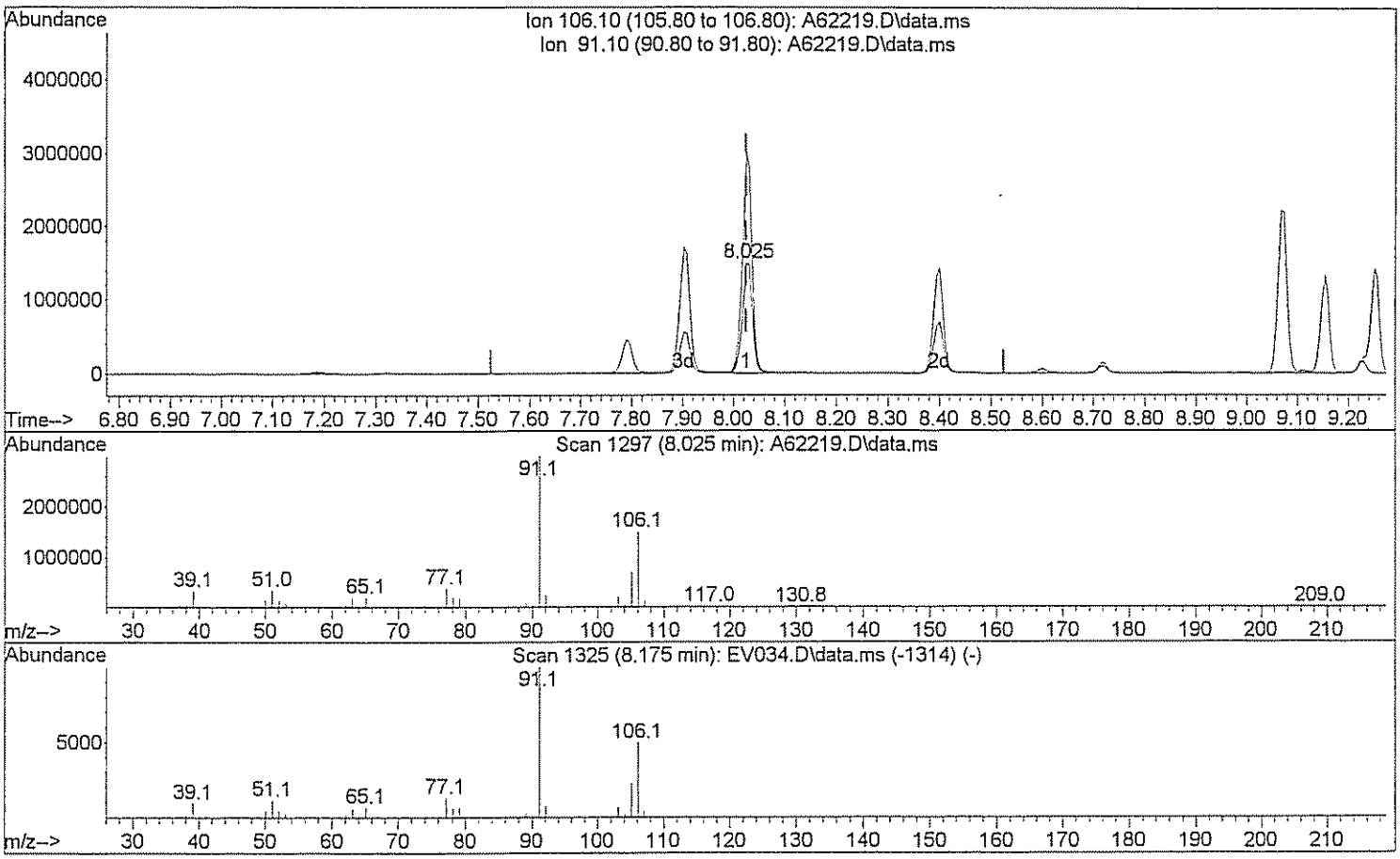
response 940669

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	76.49#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(72) Xylene (Total)

8.025min (+0.000) 434.49 ug/L

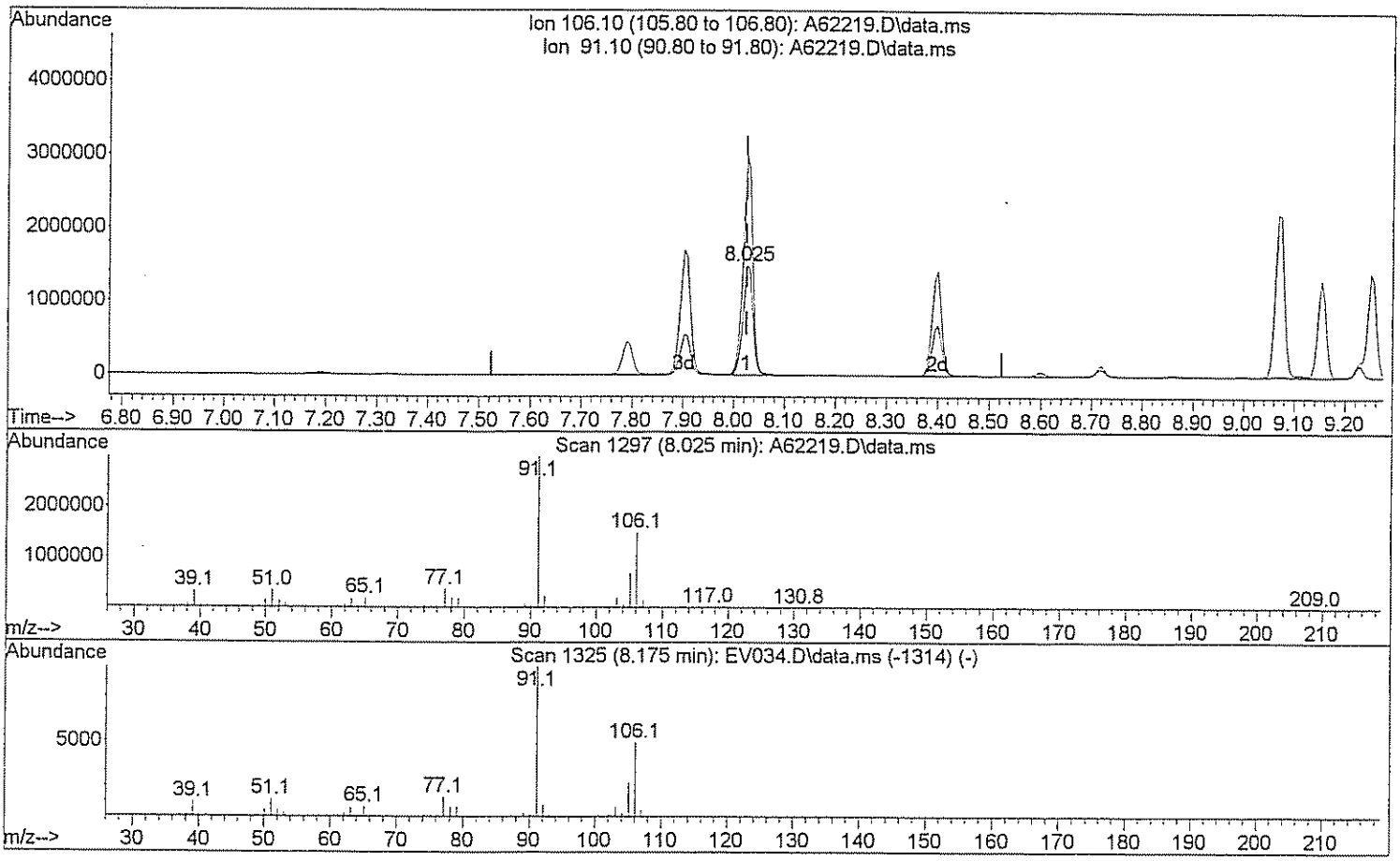
response 2011769

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	195.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(72) Xylene (Total)

8.025min (+0.000) 633.11 ug/L m DW 3/17/09

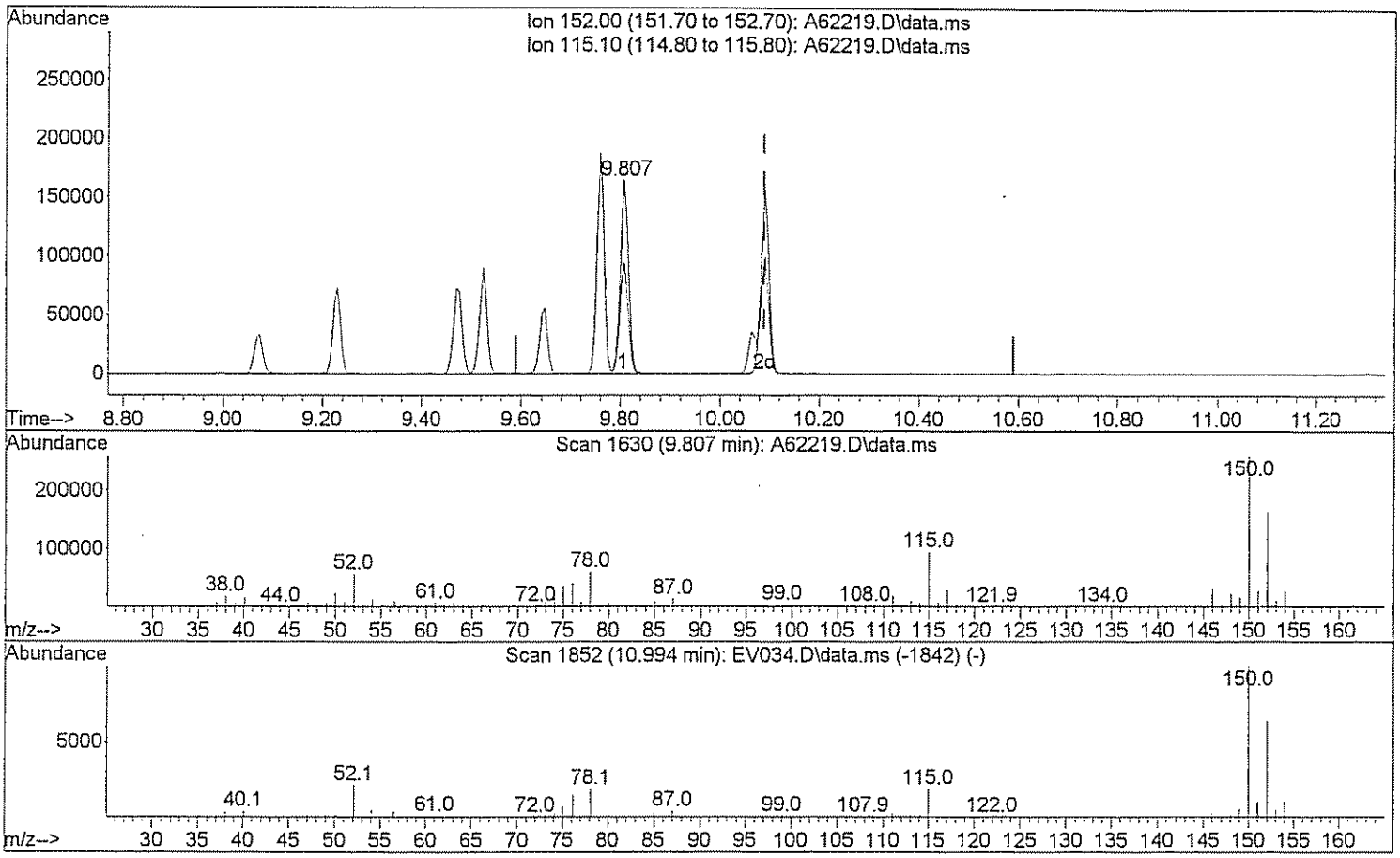
response 2931434

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	134.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

9.807min (-0.283) 53.05 ug/L

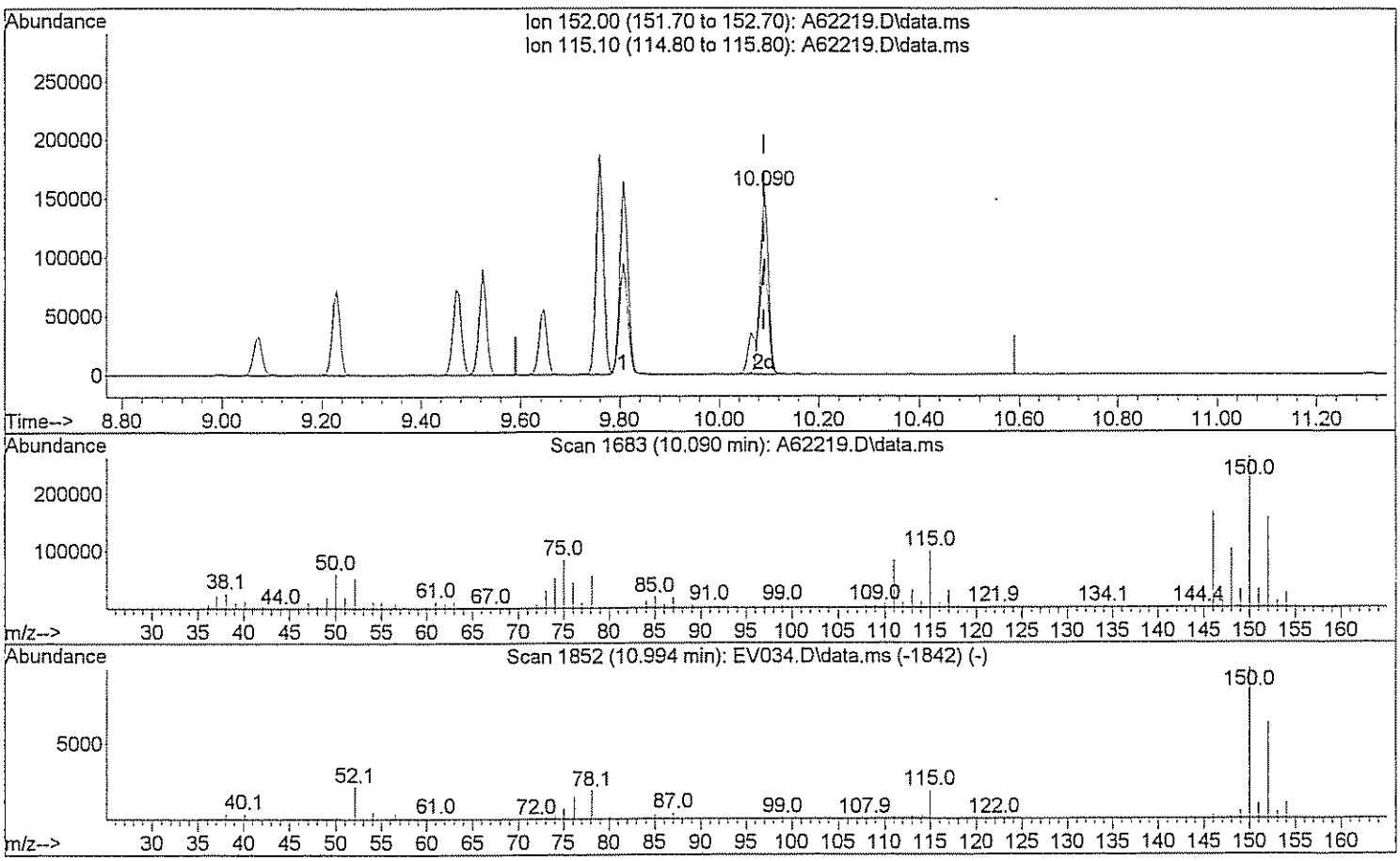
response 186440

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	59.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62219.D
Acq On : 10 Mar 2009 14:22
Operator : SM
Sample : CAL200
Misc : CAL200
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 07:36:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 07:35:48 2009
Response via : Initial Calibration



TIC: A62219.D\data.ms

(92) 1,2-Dichlorobenzene-d4 (SS)

10.090min (+0.000) 51.02 ug/L m DM 3/17/09

response 179334

Ion	Exp%	Act%
152.00	100	100
115.10	58.10	61.39
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate ~~Continuing~~ REFERENCE Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	88	0.00
2		Dichlorodifluoromethane	0.089	0.119	-33.7#	107	0.00
3		Chloromethane	0.174	0.181	-4.0	110	0.00
4		Vinyl chloride	0.207	0.222	-7.2	93	0.00
5		Bromomethane	0.115	0.170	-47.8#	191#	0.00
6		Chloroethane	0.145	0.167	-15.2	103	0.00
7		Trichlorofluoromethane	0.256	0.367	-43.4#	111	0.00
8		Ethyl Ether	0.178	0.188	-5.6	87	0.00
9		Freon 113	0.158	0.191	-20.9#	102	0.00
10		Acrolein	0.036	0.034	5.6	84	0.00
11		Tert-Butyl alcohol	0.020	0.020	0.0	69	0.00
12		1,1-Dichloroethene	0.182	0.191	-4.9	89	0.00
13		Iodomethane	0.211	0.197	6.6	191#	0.00
14		Acetonitrile	0.108	0.142	-31.5#	101	0.00
15		Methylene chloride	0.252	0.238	5.6	93	0.00
16		Trans-1,2-dichloroethene	0.209	0.233	-11.5	93	0.00
17		Isopropyl ether	0.812	0.913	-12.4	92	0.00
18		1,1-Dichloroethane	0.374	0.442	-18.2	95	0.00
19		Acetone	0.095	0.092	3.2	89	0.00
20		Methyl Acetate	0.186	0.222	-19.4	76	0.00
21		MTBE	0.545	0.606	-11.2	87	0.00
22		Carbon disulfide	0.679	0.630	7.2	91	0.00
23		Allyl Chloride	0.000	0.000	0.0	101	0.00
24		Acrylonitrile	0.063	0.063	0.0	83	0.00
25		Chloroprene	0.357	0.375	-5.0	93	0.00
26	T	n-Heptane	0.183	0.202	-10.4	103	0.00
27		2,2-Dichloropropane	0.313	0.341	-8.9	90	0.00
28		Cis-1,2-dichloroethene	0.253	0.261	-3.2	91	0.00
29		1,2-dichloroethene(total)	0.268	0.250	6.7	91	0.82#
30		Propionitrile	0.031	0.031	0.0	78	0.00
31		Bromochloromethane	0.109	0.123	-12.8	92	0.00
32		Tetrahydrofuran	0.051	0.052	-2.0	83	0.00
33		Chloroform	0.426	0.434	-1.9	96	0.00
34		Cyclohexane	0.392	0.405	-3.3	99	0.00
35		1,1,1-Trichloroethane	0.318	0.346	-8.8	91	0.00
36		Carbon tetrachloride	0.272	0.309	-13.6	94	0.00
37		Methacrylonitrile	0.170	0.171	-0.6	86	0.00
38		Methylcyclohexane	0.338	0.378	-11.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.019	-26.7#	106	0.00
40	SS	1,2-Dichloroethane-d4	0.266	0.278	-4.5	93	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
42		2-Butanone	0.163	0.177	-8.6	84	0.00
43		1,1-Dichloropropene	0.339	0.392	-15.6	93	0.00
44		Vinyl Acetate	0.381	0.382	-0.3	84	0.00
45		Benzene	1.058	1.201	-13.5	94	0.00
46		1,2-Dichloroethane	0.332	0.366	-10.2	90	0.00
47		Trichloroethene	0.272	0.285	-4.8	90	0.00
48		1,2-Dichloropropane	0.271	0.311	-14.8	92	0.00
49		Methyl methacrylate	0.196	0.187	4.6	82	0.00
50		Dibromomethane	0.167	0.175	-4.8	87	0.00
51		Bromodichloromethane	0.354	0.383	-8.2	89	0.00
52		2-Chloroethylvinyl ether	0.108	0.059	45.4#	32#	0.00
53		Cis-1,3-dichloropropene	0.427	0.497	-16.4	93	0.00
54	SS	Toluene-d8	1.159	1.216	-4.9	92	0.00
55		Toluene	0.694	0.799	-15.1	95	0.00
56		Trans-1,3-dichloropropene	0.387	0.440	-13.7	89	0.00
57		Ethyl methacrylate	0.347	0.372	-7.2	90	0.00
58		1,1,2-Trichloroethane	0.208	0.221	-6.3	88	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
60		4-Methyl-2-pentanone	0.292	0.305	-4.5	86	0.00
61		2-Hexanone	0.210	0.229	-9.0	87	0.00
62		Tetrachloroethene	0.288	0.327	-13.5	97	0.00
63		1,3-Dichloropropane	0.416	0.459	-10.3	92	0.00
64		Dibromochloromethane	0.301	0.315	-4.7	89	0.00
65		1,2-Dibromoethane	0.257	0.271	-5.4	91	0.00
66		1-Chlorohexane	0.432	0.455	-5.3	94	0.00
67		Chlorobenzene	0.848	0.950	-12.0	95	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.336	-10.5	93	0.00
69		Ethylbenzene	1.451	1.577	-8.7	95	0.00
70		m,p-Xylene	0.570	0.647	-13.5	95	0.00
71		o-Xylene	0.578	0.622	-7.6	94	0.00
72		Xylene (Total)	0.586	0.639	-9.0	94	0.00
73		Styrene	0.960	1.041	-8.4	92	0.00
74		Bromoform	0.187	0.198	-5.9	84	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.345	-9.5	94	0.00
76	SS	4-Bromofluorobenzene	0.471	0.472	-0.2	89	0.00
77		Bromobenzene	0.336	0.367	-9.2	93	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.331	-0.3	84	0.00
79		1,2,3-Trichloropropane	0.098	0.101	-3.1	87	0.00
80		n-Propylbenzene	1.700	1.863	-9.6	94	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.074	10.8	61	0.00
82		2-Chlorotoluene	0.361	0.385	-6.6	91	0.00
83		4-Chlorotoluene	0.374	0.406	-8.6	94	0.00
84		1,3,5-Trimethylbenzene	1.207	1.314	-8.9	93	0.00
85		Tert-butylbenzene	1.049	1.148	-9.4	93	0.00
86		Pentachloroethane	0.000	0.000	0.0	91	0.00
87		1,2,4-Trimethylbenzene	1.254	1.370	-9.3	94	0.00
88		Sec-Butylbenzene	1.607	1.767	-10.0	93	0.00
89		1,3-Dichlorobenzene	0.706	0.771	-9.2	94	0.00
90		4-Isopropyltoluene	1.367	1.547	-13.2	93	0.00
91		1,4-Dichlorobenzene	0.708	0.780	-10.2	94	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.472	-2.2	92	0.00
93		1,2-Dichlorobenzene	0.674	0.729	-8.2	96	0.00
94		n-Butylbenzene	1.349	1.441	-6.8	93	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.056	1.8	82	0.00
96		1,2,4-Trichlorobenzene	0.409	0.441	-7.8	96	0.00
97		Hexachlorobutadiene	0.190	0.220	-15.8	101	0.00
98		Naphthalene	0.975	1.016	-4.2	83	0.00
99		1,2,3-Trichlorobenzene	0.342	0.368	-7.6	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	455382	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	371810	50.00	ug/L	0.00
59) Chlorobenzene-d5	7.779	117	362973	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.307	65	126686	52.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.74%			
54) Toluene-d8	6.142	98	452235	52.49	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 104.98%			
76) 4-Bromofluorobenzene	8.881	95	171300	50.07	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 100.14%			
92) 1,2-Dichlorobenzene-d4	10.090	152	171474	51.10	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 102.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.188	85	54067	67.01	ug/L	98
3) Chloromethane	1.327	50	82491	51.96	ug/L	98
4) Vinyl chloride	1.392	62	101158	53.68	ug/L	95
5) Bromomethane	1.616	94	77377	82.68	ug/L	92
6) Chloroethane	1.686	64	76250	57.64	ug/L	96
7) Trichlorofluoromethane	1.836	101	167046	60.75	ug/L	99
8) Ethyl Ether	2.044	59	85752	52.94	ug/L	97
9) Freon 113	2.178	101	86854	60.27	ug/L	89
10) Acrolein	2.189	56	77846	239.01	ug/L #	74
11) Tert-Butyl alcohol	2.670	59	184154	996.39	ug/L #	47
12) 1,1-Dichloroethene	2.205	96	86773	52.46	ug/L	89
13) Iodomethane	2.333	142	89900	46.73	ug/L	96
14) Acetonitrile	2.478	40	648038	539.72	ug/L #	1
15) Methylene chloride	2.590	84	108208	50.44	ug/L	98
16) Trans-1,2-dichloroethene	2.750	96	106306	55.96	ug/L	90
17) Isopropyl ether	3.093	45	415843	56.26	ug/L	100
18) 1,1-Dichloroethane	3.109	63	201485	59.18	ug/L	97
19) Acetone	2.296	43	83481	107.15	ug/L	95
20) Methyl Acetate	4.259	43	101155	44.82	ug/L #	100
21) MTBE	2.740	73	275965	55.64	ug/L	100
22) Carbon disulfide	2.355	76	286671	49.87	ug/L	100
24) Acrylonitrile	2.831	53	143730	249.46	ug/L	98
25) Chloroprene	3.146	53	170876	52.54	ug/L	91
26) n-Heptane	4.436	71	92056m	55.36	ug/L	
27) 2,2-Dichloropropane	3.553	77	155142	54.46	ug/L #	71
28) Cis-1,2-dichloroethene	3.574	96	118772	51.52	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	227721m	93.31 ug/L	
30) Propionitrile	3.735	54	142132	499.58 ug/L	99
31) Bromochloromethane	3.783	128	56165	56.47 ug/L	96
32) Tetrahydrofuran	3.788	72	23801	50.96 ug/L #	1
33) Chloroform	3.836	83	197718	50.93 ug/L	97
34) Cyclohexane	3.933	56	184270	54.44 ug/L	94
35) 1,1,1-Trichloroethane	3.960	97	157737	54.44 ug/L	99
36) Carbon tetrachloride	4.061	117	140935	56.81 ug/L	100
37) Methacrylonitrile	3.826	41	780286	504.02 ug/L #	19
38) Methylcyclohexane	4.992	83	172142	55.87 ug/L	94
39) Isobutyl Alcohol	4.436	43	174603	1293.22 ug/L	91
42) 2-Butanone	3.612	43	131383	108.32 ug/L	96
43) 1,1-Dichloropropene	4.099	75	145727	57.82 ug/L	98
44) Vinyl Acetate	3.136	43	142059	50.10 ug/L	99
45) Benzene	4.281	78	446598	56.75 ug/L	100
46) 1,2-Dichloroethane	4.377	62	135994	55.12 ug/L #	84
47) Trichloroethene	4.885	95	106034	52.47 ug/L	89
48) 1,2-Dichloropropane	5.163	63	115549	57.30 ug/L	95
49) Methyl methacrylate	5.265	69	69429	47.55 ug/L	97
50) Dibromomethane	5.281	93	64913	52.33 ug/L	96
51) Bromodichloromethane	5.431	83	142305	54.06 ug/L	100
52) 2-Chloroethylvinyl ether	5.778	63	88259	109.93 ug/L	95
53) Cis-1,3-dichloropropene	5.918	75	184617	58.20 ug/L	99
55) Toluene	6.217	92	297166	57.61 ug/L	98
56) Trans-1,3-dichloropropene	6.570	75	163637	56.93 ug/L	97
57) Ethyl methacrylate	6.624	69	138195	53.55 ug/L	94
58) 1,1,2-Trichloroethane	6.773	83	82308	53.18 ug/L	95
60) 4-Methyl-2-pentanone	6.094	43	221650	104.72 ug/L	95
61) 2-Hexanone	7.062	43	166157	108.75 ug/L	97
62) Tetrachloroethene	6.795	166	118630	56.70 ug/L	96
63) 1,3-Dichloropropane	6.977	76	166692	55.20 ug/L	92
64) Dibromochloromethane	7.185	129	114427	52.34 ug/L	99
65) 1,2-Dibromoethane	7.319	107	98318	52.70 ug/L	98
66) 1-Chlorohexane	7.790	91	164972	52.56 ug/L	93
67) Chlorobenzene	7.811	112	344787	56.02 ug/L	89
68) 1,1,1,2-Tetrachloroethane	7.908	131	122072	55.38 ug/L	96
69) Ethylbenzene	7.902	91	572267	54.32 ug/L	98
70) m,p-Xylene	8.020	106	469420	113.43 ug/L	90
71) o-Xylene	8.394	106	225692	53.82 ug/L	94
72) Xylene (Total)	8.020	106	695566m	163.62 ug/L	
73) Styrene	8.421	104	377972	54.24 ug/L	92
74) Bromoform	8.598	173	71717	52.89 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

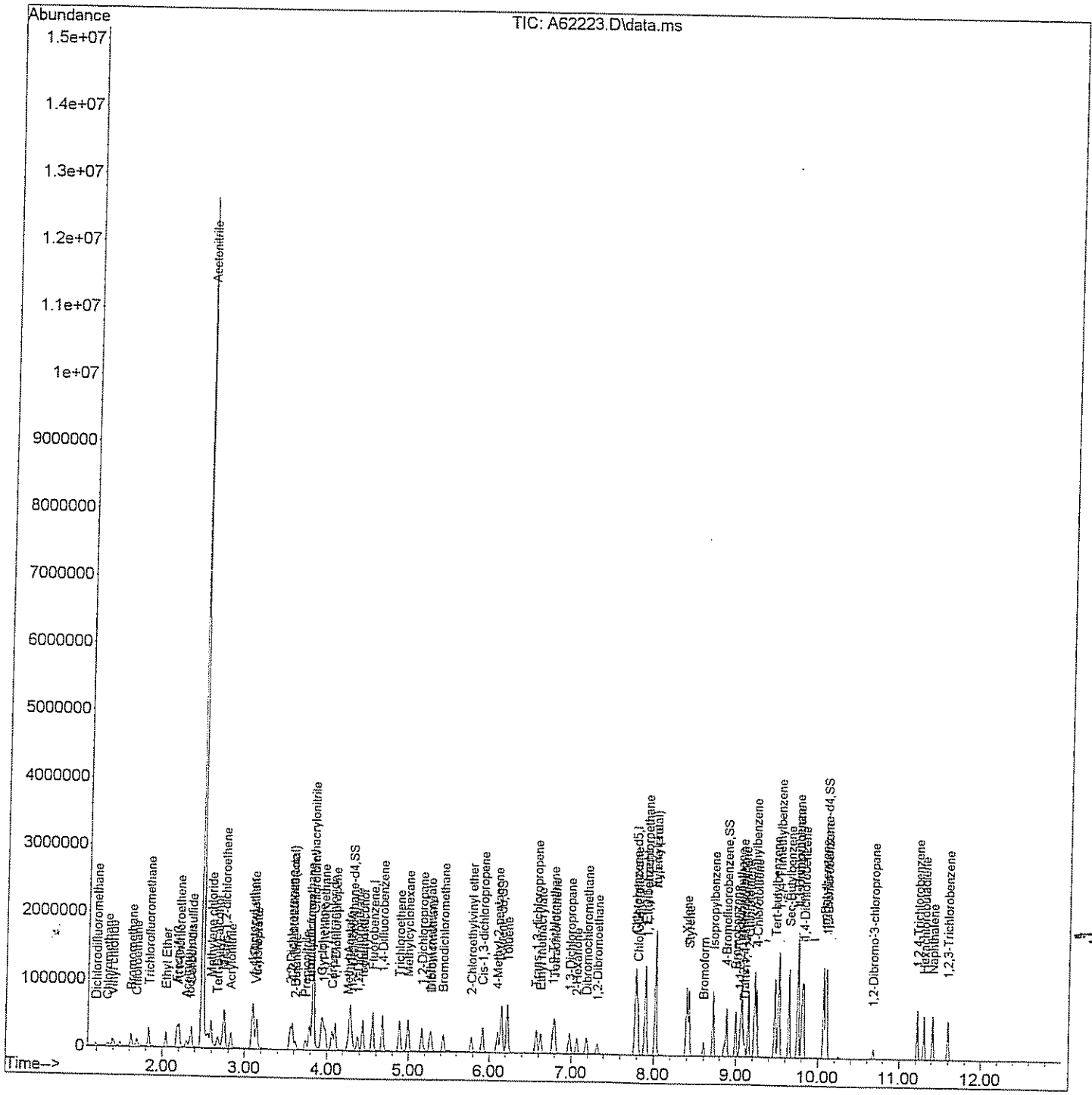
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	488282	54.76 ug/L	98
77) Bromobenzene	8.994	156	133216	54.57 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	120279	50.17 ug/L	97
79) 1,2,3-Trichloropropane	9.085	110	36572	51.35 ug/L	96
80) n-Propylbenzene	9.069	91	676242	54.79 ug/L	99
81) Trans-1,4-dichloro-2-b...	9.106	53	26923	45.29 ug/L #	25
82) 2-Chlorotoluene	9.149	126	139769	53.40 ug/L	90
83) 4-Chlorotoluene	9.250	126	147320	54.23 ug/L	92
84) 1,3,5-Trimethylbenzene	9.224	105	476804	54.42 ug/L	95
85) Tert-butylbenzene	9.470	119	416869	54.76 ug/L	96
87) 1,2,4-Trimethylbenzene	9.518	105	497453	54.66 ug/L	93
88) Sec-Butylbenzene	9.641	105	641537	54.99 ug/L	98
89) 1,3-Dichlorobenzene	9.748	146	279766	54.61 ug/L	100
90) 4-Isopropyltoluene	9.759	119	561573	56.60 ug/L	98
91) 1,4-Dichlorobenzene	9.823	146	283114	55.08 ug/L	98
93) 1,2-Dichlorobenzene	10.101	146	264432	54.04 ug/L	99
94) n-Butylbenzene	10.064	91	523187	53.43 ug/L	95
95) 1,2-Dibromo-3-chloropr...	10.679	75	20440	49.78 ug/L	80
96) 1,2,4-Trichlorobenzene	11.224	180	160221	53.96 ug/L	99
97) Hexachlorobutadiene	11.305	225	79748	57.67 ug/L	98
98) Naphthalene	11.412	128	368792	52.12 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	133500	53.71 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

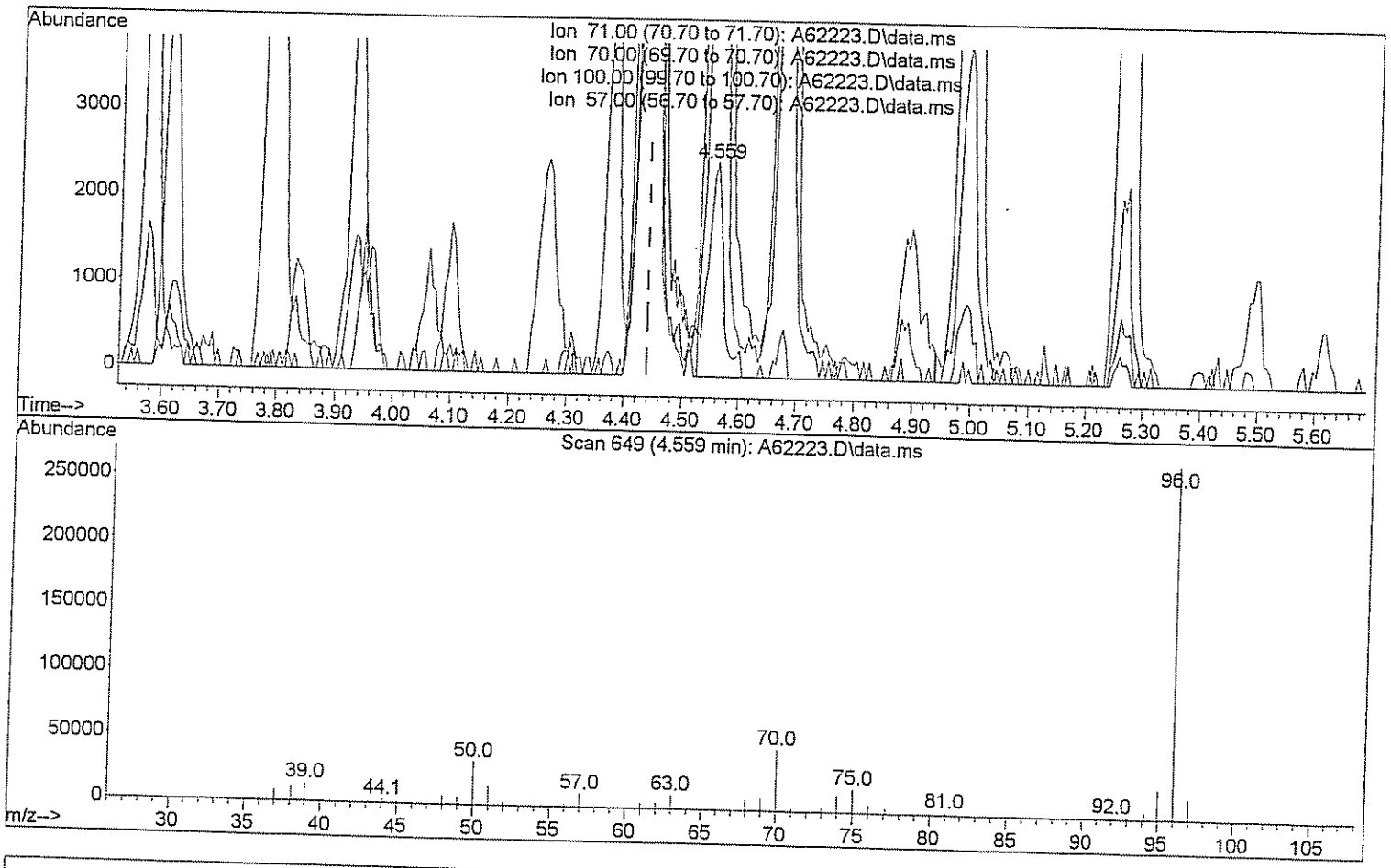
Quant Time: Mar 17 08:28:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(26) n-Heptane (T)

4.559min (+0.118) 2.75 ug/L

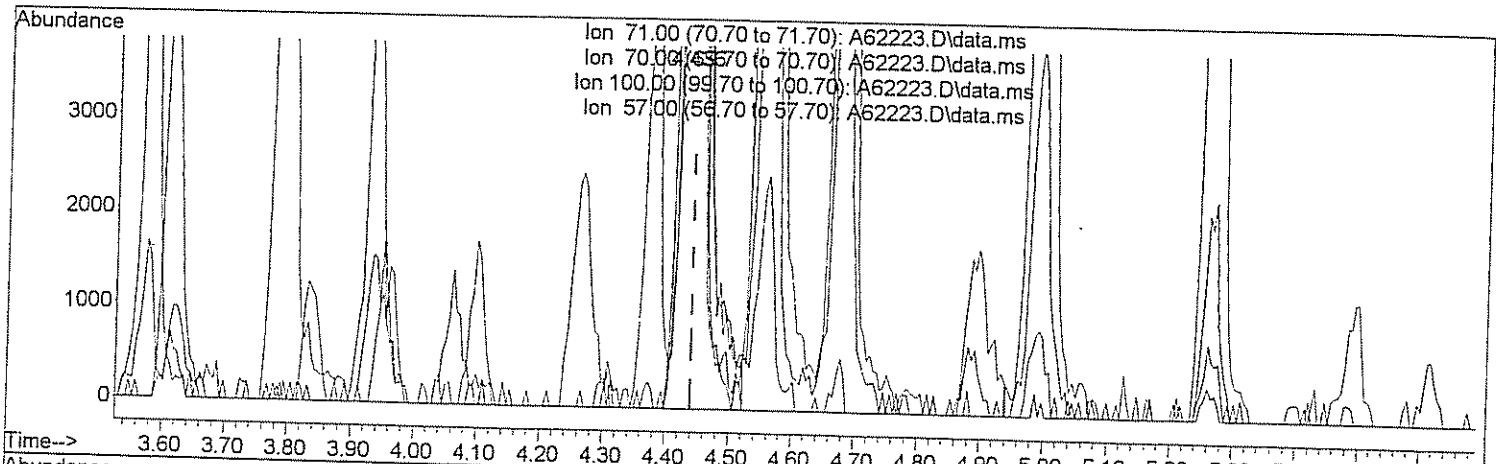
response 4573

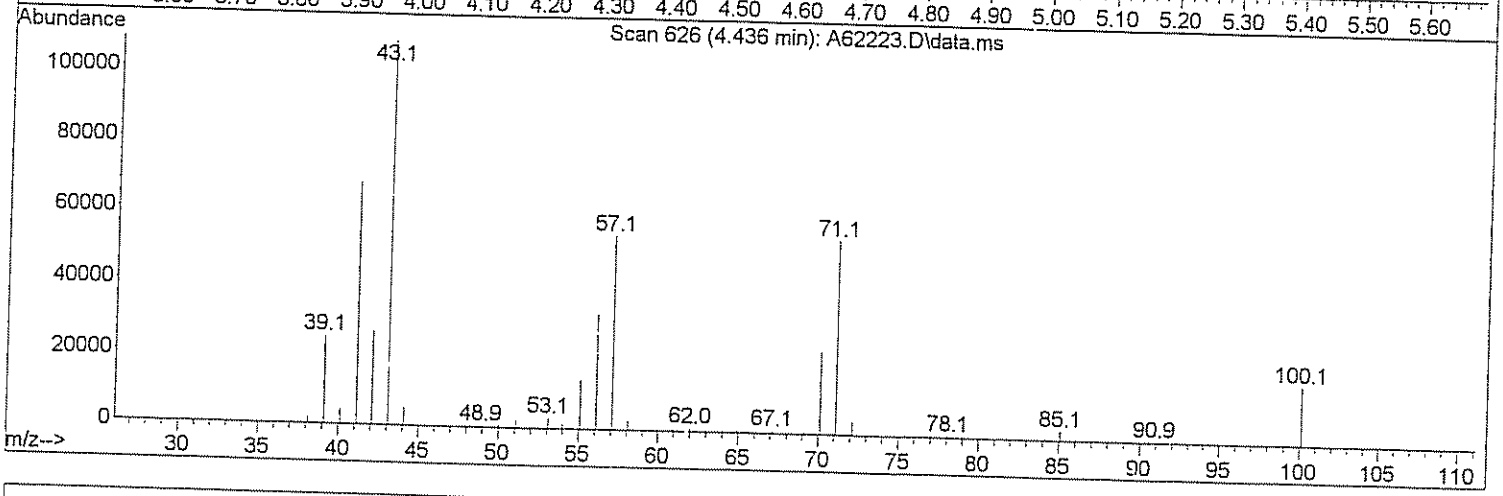
Ion	Exp%	Act%
71.00	100	100
70.00	25.00	1777.41#
100.00	62.00	0.00#
57.00	40.00	406.25#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration





TIC: A62223.D\data.ms

(26) n-Heptane (T)

4.436min (-0.005) 55.36 ug/L m DW 3/17/09

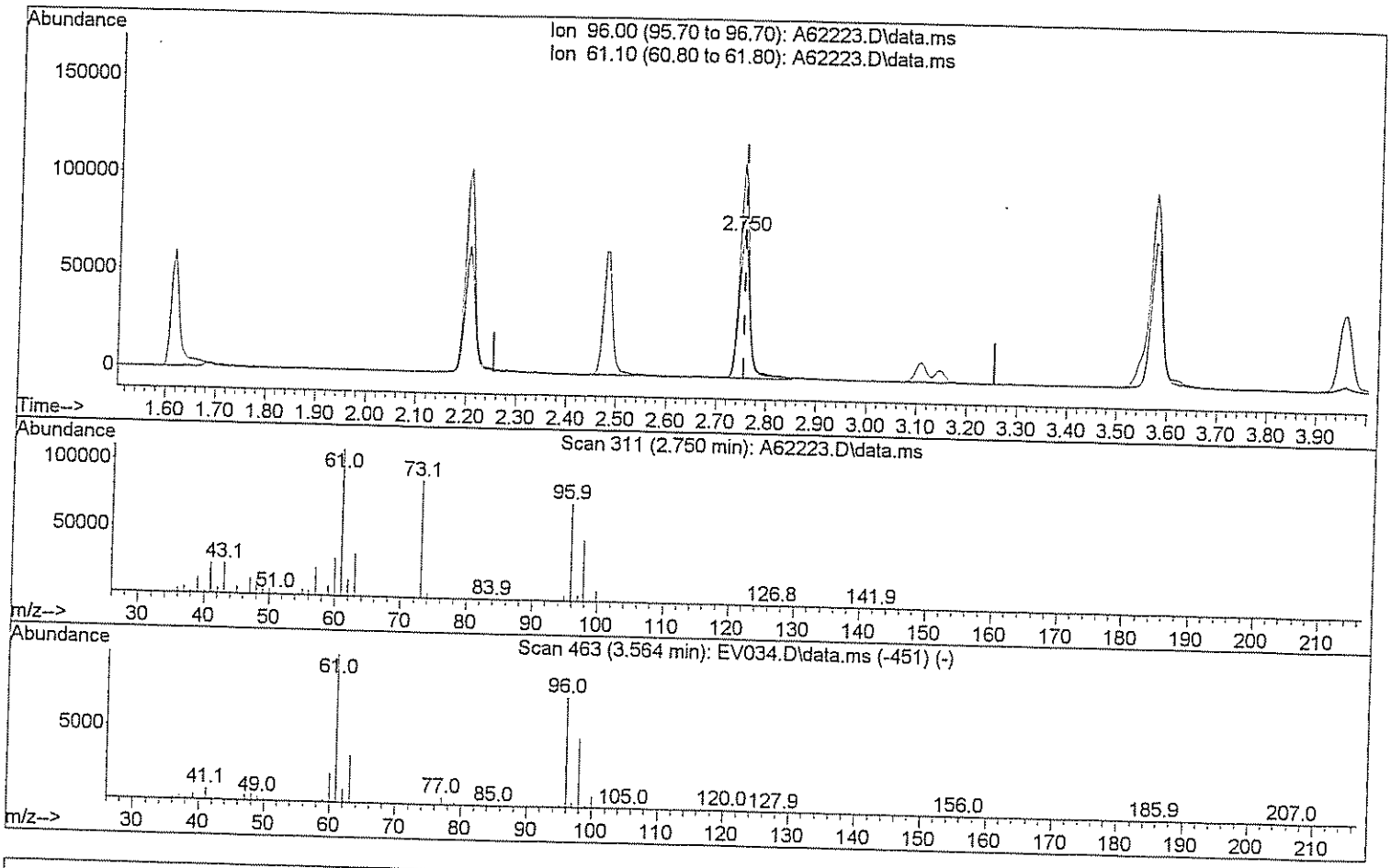
response 92056

Ion	Exp%	Act%
71.00	100	100
70.00	25.00	88.30#
100.00	62.00	0.00#
57.00	40.00	20.18#

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 43.56 ug/L

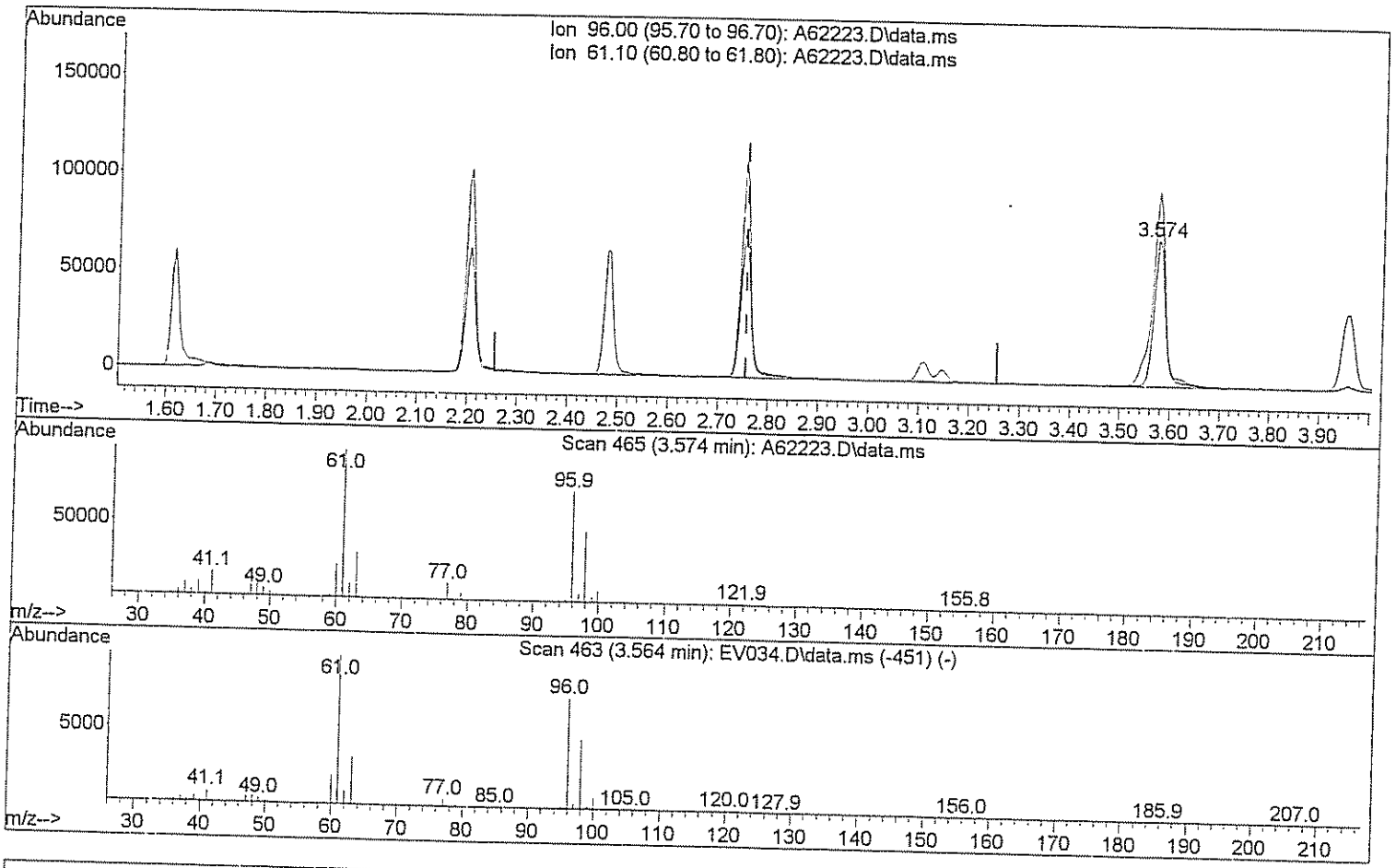
response 106306

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	142.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(29) 1,2-dichloroethene(total)

3.574min (+0.819) 93.31 ug/L m DMW 3/17/09

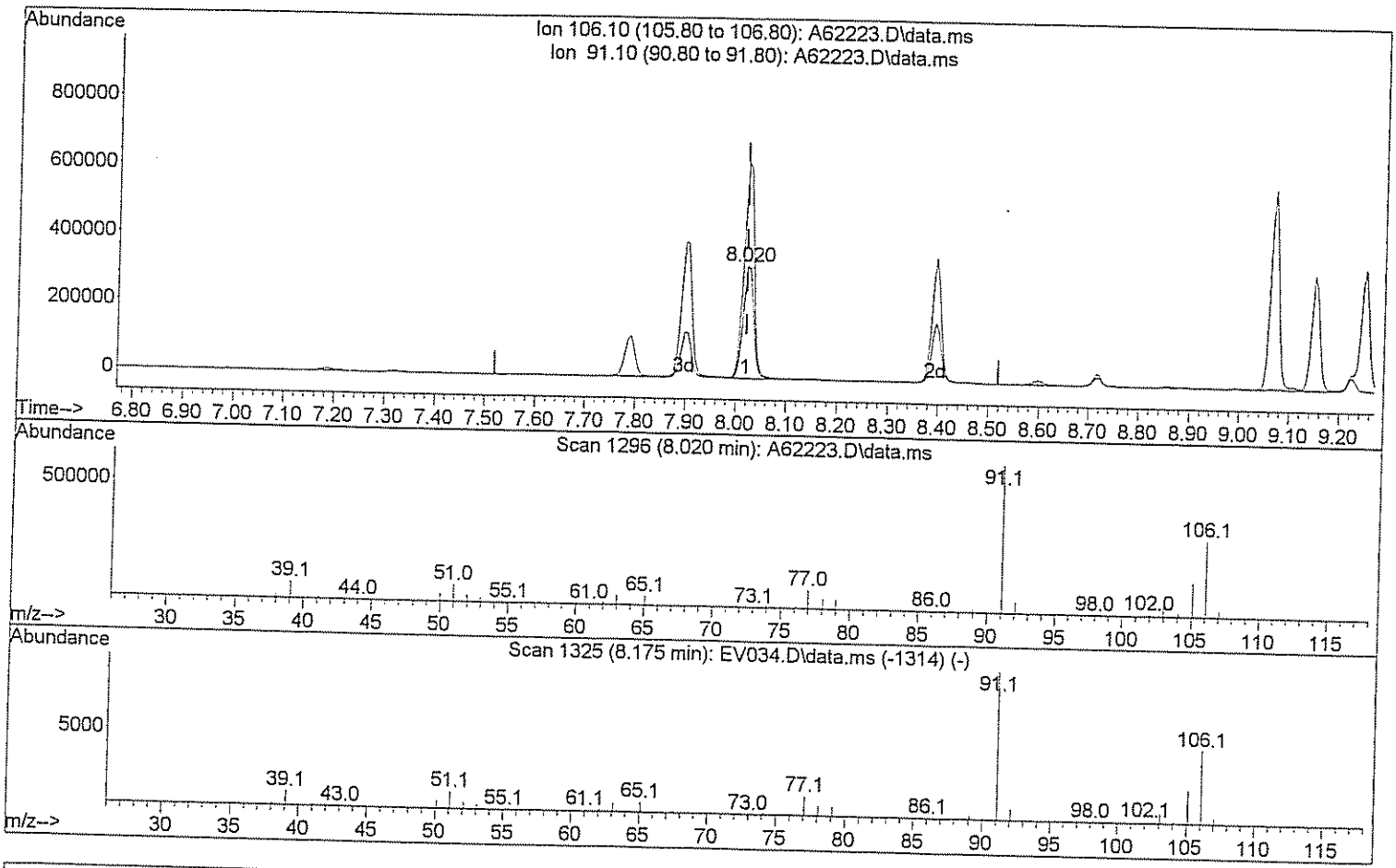
response 227721

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	66.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 110.42 ug/L

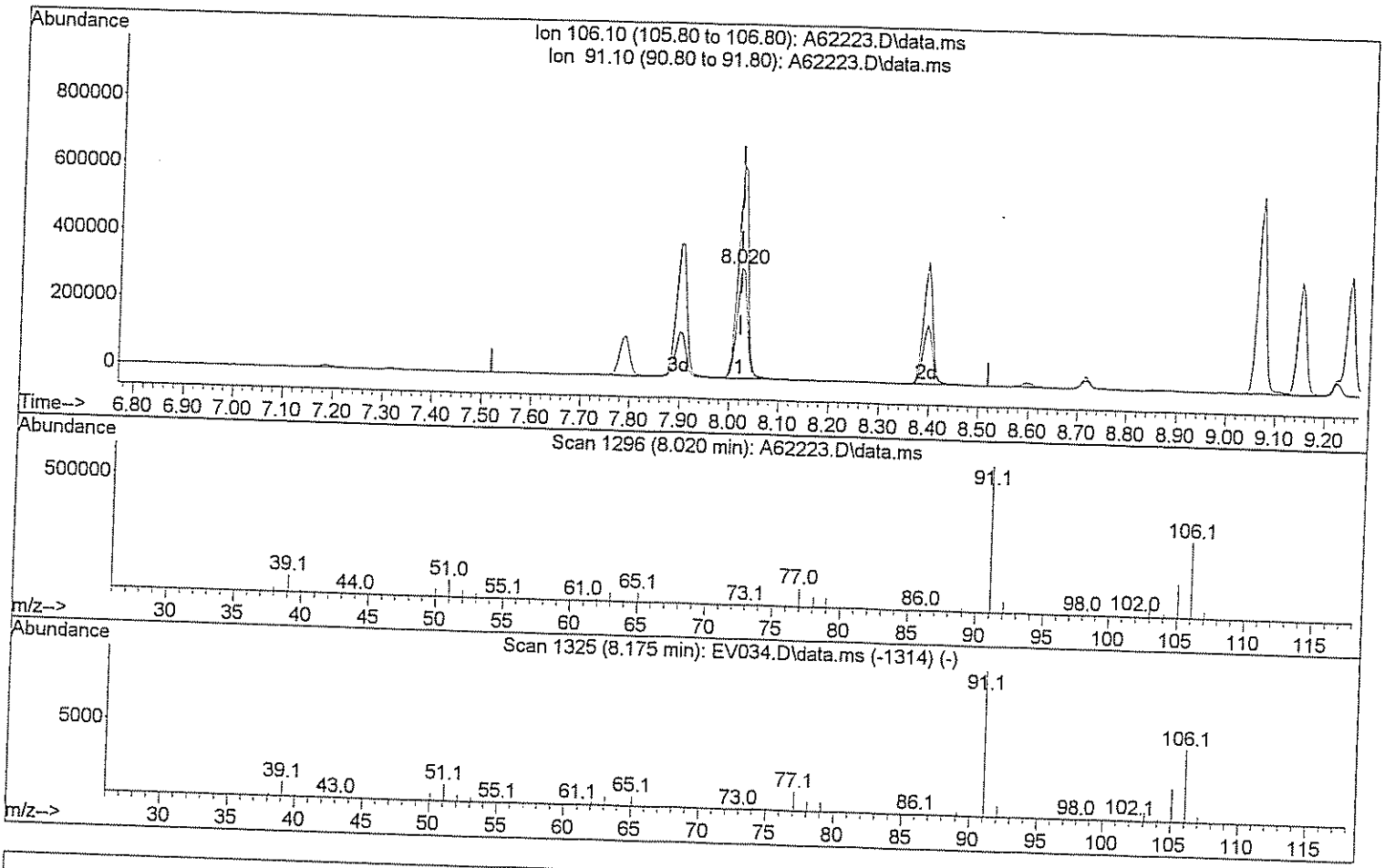
response 469420

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	192.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62223.D
Acq On : 10 Mar 2009 16:25
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 08:10:47 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62223.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 163.62 ug/L m DM 3/17/09

response 695566

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	129.95#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	76	0.00
2		Dichlorodifluoromethane	0.089	0.079	11.2	61	0.00
3		Chloromethane	0.174	0.145	16.7	76	0.00
4		Vinyl chloride	0.207	0.176	15.0	63	0.00
5		Bromomethane	0.115	0.358	-211.3#	346#	0.00
6		Chloroethane	0.145	0.129	11.0	69	0.00
7		Trichlorofluoromethane	0.256	0.299	-16.8	78	0.00
8		Ethyl Ether	0.178	0.162	9.0	65	0.00
9		Freon 113	0.158	0.191	-20.9#	87	0.00
10		Acrolein	0.036	0.027	25.0#	57	0.00
11		Tert-Butyl alcohol	0.020	0.017	15.0	49#	0.00
12		1,1-Dichloroethene	0.182	0.185	-1.6	74	0.00
13		Iodomethane	0.211	0.324	-53.6#	269#	0.00
14		Acetonitrile	0.108	0.161	-49.1#	98	0.00
15		Methylene chloride	0.252	0.220	12.7	74	0.00
16		Trans-1,2-dichloroethene	0.209	0.219	-4.8	75	0.00
17		Isopropyl ether	0.812	0.775	4.6	67	0.00
18		1,1-Dichloroethane	0.374	0.404	-8.0	74	0.00
19		Acetone	0.095	0.063	33.7#	53	0.00
20		Methyl Acetate	0.186	0.176	5.4	52	0.00
21		MTBE	0.545	0.569	-4.4	71	0.00
22		Carbon disulfide	0.679	0.573	15.6	71	0.00
23		Allyl Chloride	0.000	0.000	0.0	93	0.00
24		Acrylonitrile	0.063	0.054	14.3	61	0.00
25		Chloroprene	0.357	0.328	8.1	70	0.00
26	T	n-Heptane	0.183	0.008	95.6#	3#	0.12
27		2,2-Dichloropropane	0.313	0.301	3.8	68	0.00
28		Cis-1,2-dichloroethene	0.253	0.250	1.2	75	0.00
29		1,2-dichloroethene(total)	0.268	0.241	10.1	75	0.00
30		Propionitrile	0.031	0.027	12.9	58	0.00
31		Bromochloromethane	0.109	0.137	-25.7#	88	0.00
32		Tetrahydrofuran	0.051	0.047	7.8	64	0.00
33		Chloroform	0.426	0.444	-4.2	84	0.00
34		Cyclohexane	0.392	0.349	11.0	74	0.00
35		1,1,1-Trichloroethane	0.318	0.363	-14.2	82	0.00
36		Carbon tetrachloride	0.272	0.329	-21.0#	86	0.00
37		Methacrylonitrile	0.170	0.163	4.1	71	0.00
38		Methylcyclohexane	0.338	0.339	-0.3	77	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.009	40.0#	42#	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.282	-6.0	81	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
42		2-Butanone	0.163	0.119	27.0#	55	0.00
43		1,1-Dichloropropene	0.339	0.306	9.7	71	0.00
44		Vinyl Acetate	0.381	0.237	37.8#	51	0.00
45		Benzene	1.058	0.964	8.9	74	0.00
46		1,2-Dichloroethane	0.332	0.309	6.9	74	0.00
47		Trichloroethene	0.272	0.246	9.6	76	0.00
48		1,2-Dichloropropane	0.271	0.242	10.7	69	0.00
49		Methyl methacrylate	0.196	0.142	27.6#	61	0.00
50		Dibromomethane	0.167	0.155	7.2	75	0.00
51		Bromodichloromethane	0.354	0.368	-4.0	84	0.00
52		2-Chloroethylvinyl ether	0.108	0.045	58.3#	23#	0.00
53		Cis-1,3-dichloropropene	0.427	0.421	1.4	77	0.00
54	SS	Toluene-d8	1.159	1.276	-10.1	94	0.00
55		Toluene	0.694	0.765	-10.2	89	0.00
56		Trans-1,3-dichloropropene	0.387	0.368	4.9	73	0.00
57		Ethyl methacrylate	0.347	0.334	3.7	78	0.00
58		1,1,2-Trichloroethane	0.208	0.218	-4.8	85	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00
60		4-Methyl-2-pentanone	0.292	0.214	26.7#	72	0.00
61		2-Hexanone	0.210	0.149	29.0#	68	0.00
62		Tetrachloroethene	0.288	0.334	-16.0	118	0.00
63		1,3-Dichloropropane	0.416	0.360	13.5	86	0.00
64		Dibromochloromethane	0.301	0.290	3.7	97	0.00
65		1,2-Dibromoethane	0.257	0.218	15.2	87	0.00
66		1-Chlorohexane	0.432	0.347	19.7	86	0.00
67		Chlorobenzene	0.848	0.827	2.5	99	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.324	-6.6	107	0.00
69		Ethylbenzene	1.451	1.293	10.9	93	0.00
70		m,p-Xylene	0.570	0.575	-0.9	100	0.00
71		o-Xylene	0.578	0.541	6.4	97	0.00
72		Xylene (Total)	0.586	0.565	3.6	100	0.00
73		Styrene	0.960	0.910	5.2	96	0.00
74		Bromoform	0.187	0.190	-1.6	97	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.222	0.5	102	0.00
76	SS	4-Bromofluorobenzene	0.471	0.469	0.4	106	0.00
77		Bromobenzene	0.336	0.388	-15.5	118	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.275	16.7	83	0.00
79		1,2,3-Trichloropropane	0.098	0.094	4.1	97	0.00
80		n-Propylbenzene	1.700	1.597	6.1	96	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.052	37.3#	52	0.00
82		2-Chlorotoluene	0.361	0.384	-6.4	108	0.00
83		4-Chlorotoluene	0.374	0.404	-8.0	112	0.00
84		1,3,5-Trimethylbenzene	1.207	1.195	1.0	101	0.00
85		Tert-butylbenzene	1.049	1.109	-5.7	107	0.00
86		Pentachloroethane	0.000	0.000	0.0	111	0.00
87		1,2,4-Trimethylbenzene	1.254	1.259	-0.4	103	0.00
88		Sec-Butylbenzene	1.607	1.613	-0.4	101	0.00
89		1,3-Dichlorobenzene	0.706	0.821	-16.3	120	0.00
90		4-Isopropyltoluene	1.367	1.534	-12.2	110	0.00
91		1,4-Dichlorobenzene	0.708	0.821	-16.0	118	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.548	-18.6	127	0.00
93		1,2-Dichlorobenzene	0.674	0.758	-12.5	119	0.00
94		n-Butylbenzene	1.349	1.241	8.0	96	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.043	24.6#	75	0.00
96		1,2,4-Trichlorobenzene	0.409	0.447	-9.3	116	0.00
97		Hexachlorobutadiene	0.190	0.218	-14.7	119	0.00
98		Naphthalene	0.975	0.919	5.7	90	0.00
99		1,2,3-Trichlorobenzene	0.342	0.375	-9.6	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	391514	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.677	114	362227	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.785	117	433260	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.307	65	110372	53.07	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.14%				
54) Toluene-d8	6.142	98	462371	55.09	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 110.18%				
76) 4-Bromofluorobenzene	8.881	95	203359	49.79	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.58%				
92) 1,2-Dichlorobenzene-d4	10.085	152	237591	59.32	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 118.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.189	85	30899	44.54	ug/L		99
3) Chloromethane	1.333	50	56820	41.63	ug/L		99
4) Vinyl chloride	1.397	62	68806	42.47	ug/L		96
5) Bromomethane	1.617	94	140153	133.62	ug/L		90
6) Chloroethane	1.686	64	50487	44.39	ug/L		95
7) Trichlorofluoromethane	1.836	101	117179	49.82	ug/L		97
8) Ethyl Ether	2.044	59	63455	45.57	ug/L		92
9) Freon 113	2.178	101	74604	60.21	ug/L		92
10) Acrolein	2.189	56	53353	190.53	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	131218	825.79	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	72284	50.83	ug/L		87
13) Iodomethane	2.333	142	126800	76.67	ug/L		99
14) Acetonitrile	2.483	40	631108	606.99	ug/L	#	1
15) Methylene chloride	2.595	84	86145	46.83	ug/L		89
16) Trans-1,2-dichloroethene	2.756	96	85592	52.41	ug/L		84
17) Isopropyl ether	3.093	45	303282	47.73	ug/L		97
18) 1,1-Dichloroethane	3.109	63	158311	54.08	ug/L		97
19) Acetone	2.296	43	49430	74.11	ug/L	#	88
20) Methyl Acetate	4.265	43	68873	34.20	ug/L	#	100
21) MTBE	2.740	73	222634	52.21	ug/L		100
22) Carbon disulfide	2.355	76	224308	45.45	ug/L		100
24) Acrylonitrile	2.831	53	105533	213.04	ug/L		99
25) Chloroprene	3.147	53	128559	45.98	ug/L		90
26) n-Heptane	4.559	71	3026	2.12	ug/L	#	1
27) 2,2-Dichloropropane	3.553	77	117954	48.16	ug/L	#	68
28) Cis-1,2-dichloroethene	3.580	96	97847	49.37	ug/L		97

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	188807m	89.99	ug/L		
30) Propionitrile	3.735	54	104346	426.60	ug/L		96
31) Bromochloromethane	3.783	128	53689	62.79	ug/L	#	70
32) Tetrahydrofuran	3.794	72	18231	45.40	ug/L	#	1
33) Chloroform	3.837	83	173666	52.03	ug/L		98
34) Cyclohexane	3.938	56	136556	46.83	ug/L	#	87
35) 1,1,1-Trichloroethane	3.960	97	142094	57.04	ug/L		99
36) Carbon tetrachloride	4.067	117	128757	60.37	ug/L		97
37) Methacrylonitrile	3.826	41	639069	480.15	ug/L	#	21
38) Methylcyclohexane	4.992	83	132593	50.06	ug/L		91
39) Isobutyl Alcohol	4.265	43	68873	593.33	ug/L		90
42) 2-Butanone	3.612	43	86502	73.21	ug/L		94
43) 1,1-Dichloropropene	4.099	75	110831	45.13	ug/L		95
44) Vinyl Acetate	3.136	43	85869	31.08	ug/L		97
45) Benzene	4.281	78	349318	45.56	ug/L		100
46) 1,2-Dichloroethane	4.377	62	112017	46.60	ug/L	#	88
47) Trichloroethene	4.885	95	89138	45.28	ug/L	#	69
48) 1,2-Dichloropropane	5.163	63	87481	44.53	ug/L		97
49) Methyl methacrylate	5.265	69	51551	36.24	ug/L		92
50) Dibromomethane	5.281	93	55965	46.31	ug/L		95
51) Bromodichloromethane	5.431	83	133264	51.97	ug/L	#	99
52) 2-Chloroethylvinyl ether	5.779	63	65149	83.30	ug/L		93
53) Cis-1,3-dichloropropene	5.918	75	152592	49.37	ug/L		94
55) Toluene	6.217	92	277186	55.16	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	133399	47.64	ug/L		97
57) Ethyl methacrylate	6.624	69	120922	48.09	ug/L		93
58) 1,1,2-Trichloroethane	6.774	83	78806	52.26	ug/L		93
60) 4-Methyl-2-pentanone	6.100	43	185855	73.56	ug/L		95
61) 2-Hexanone	7.063	43	129245	70.86	ug/L		95
62) Tetrachloroethene	6.795	166	144703	57.94	ug/L		96
63) 1,3-Dichloropropane	6.977	76	156065	43.30	ug/L		90
64) Dibromochloromethane	7.186	129	125673	48.15	ug/L		96
65) 1,2-Dibromoethane	7.319	107	94527	42.45	ug/L		95
66) 1-Chlorohexane	7.785	91	150546	40.18	ug/L		94
67) Chlorobenzene	7.811	112	358269	48.77	ug/L	#	83
68) 1,1,1,2-Tetrachloroethane	7.908	131	140415	53.37	ug/L		97
69) Ethylbenzene	7.897	91	560271	44.55	ug/L		96
70) m,p-Xylene	8.020	106	498111	100.84	ug/L		82
71) o-Xylene	8.395	106	234318	46.82	ug/L		85
72) Xylene (Total)	8.020	106	734059m	144.66	ug/L		
73) Styrene	8.421	104	394267	47.40	ug/L		99
74) Bromoform	8.598	173	82366	50.89	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

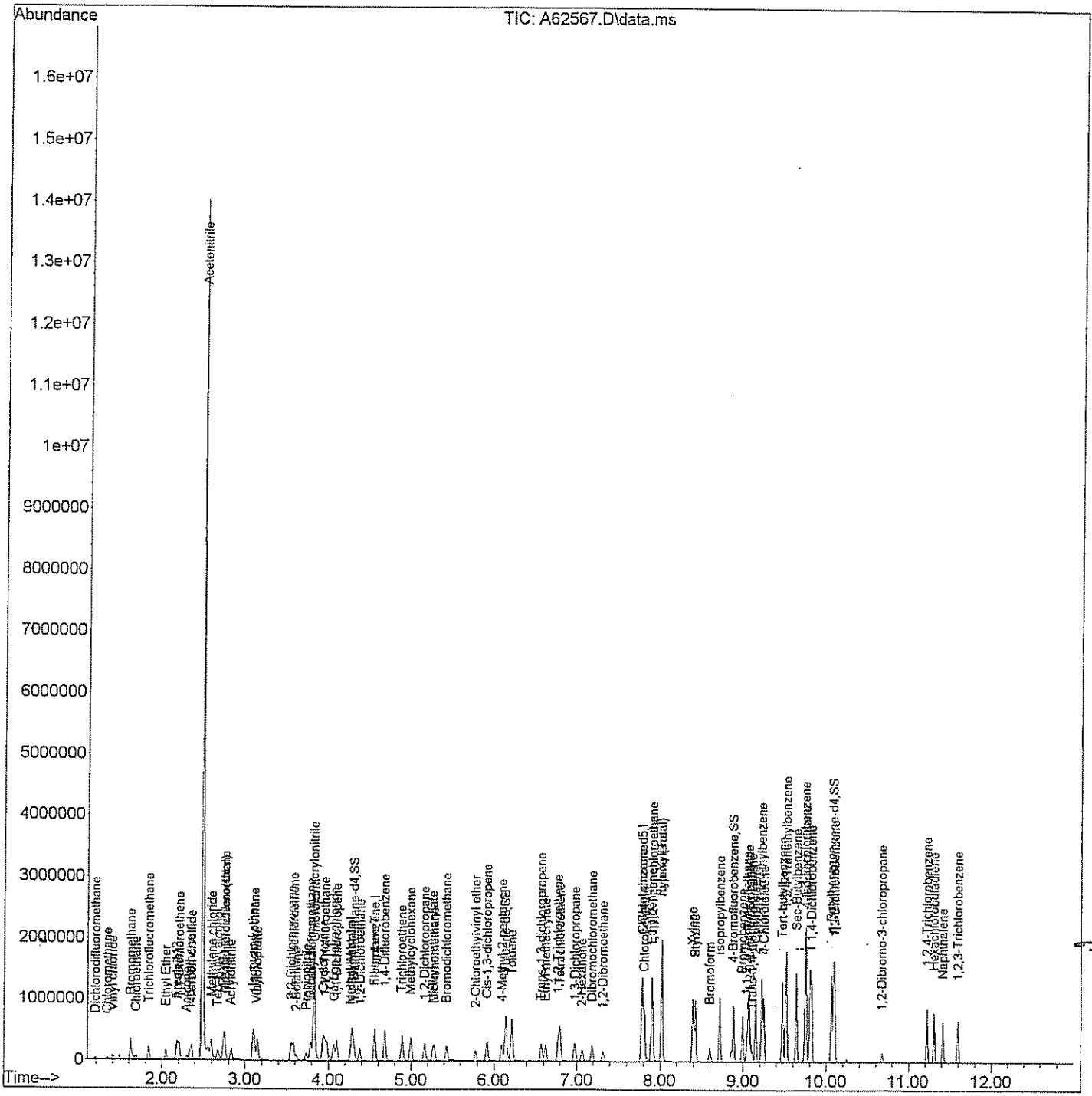
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.716	105	529359	49.74 ug/L	96
77) Bromobenzene	8.994	156	168209	57.72 ug/L	98
78) 1,1,2,2-Tetrachloroethane	9.047	83	119059	41.60 ug/L	96
79) 1,2,3-Trichloropropane	9.085	110	40592	47.75 ug/L	96
80) n-Propylbenzene	9.069	91	691771	46.96 ug/L	94
81) Trans-1,4-dichloro-2-b...	9.111	53	22588	31.52 ug/L #	24
82) 2-Chlorotoluene	9.149	126	166534	53.31 ug/L #	83
83) 4-Chlorotoluene	9.251	126	174982	53.96 ug/L	70
84) 1,3,5-Trimethylbenzene	9.224	105	517764	49.51 ug/L	91
85) Tert-butylbenzene	9.470	119	480567	52.89 ug/L	91
87) 1,2,4-Trimethylbenzene	9.518	105	545320	50.20 ug/L	89
88) Sec-Butylbenzene	9.641	105	699052	50.20 ug/L	92
89) 1,3-Dichlorobenzene	9.748	146	355665	58.17 ug/L	100
90) 4-Isopropyltoluene	9.759	119	664738	56.13 ug/L	94
91) 1,4-Dichlorobenzene	9.823	146	355583	57.95 ug/L	100
93) 1,2-Dichlorobenzene	10.101	146	328495	56.25 ug/L	97
94) n-Butylbenzene	10.058	91	537557	45.99 ug/L #	85
95) 1,2-Dibromo-3-chloropr...	10.679	75	18592	37.93 ug/L #	49
96) 1,2,4-Trichlorobenzene	11.225	180	193624	54.63 ug/L	97
97) Hexachlorobutadiene	11.305	225	94283	57.12 ug/L	97
98) Naphthalene	11.412	128	398018	47.13 ug/L	100
99) 1,2,3-Trichlorobenzene	11.599	180	162646	54.82 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

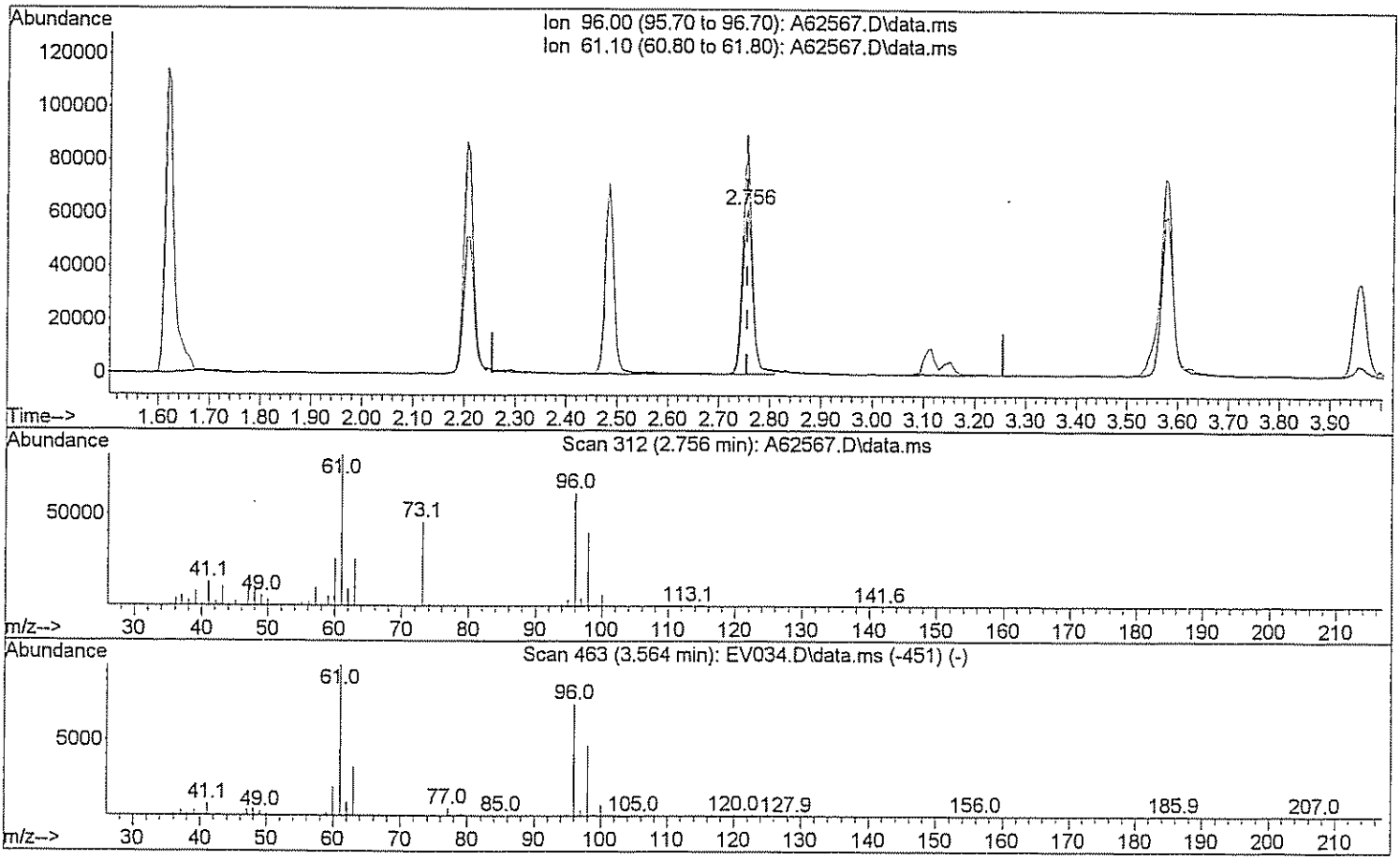
Quant Time: Mar 27 17:32:42 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 09:40:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62567.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 40.79 ug/L

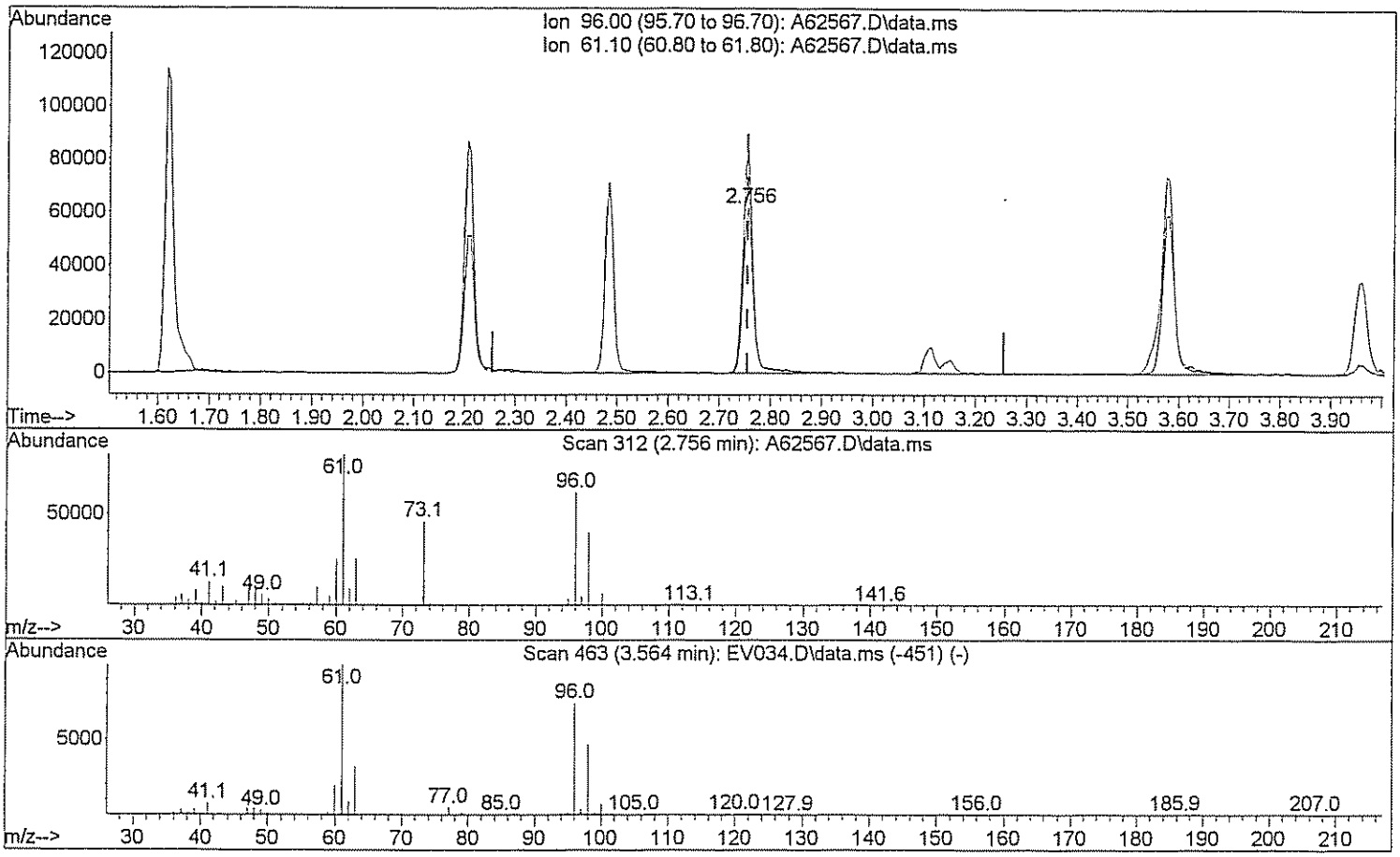
response 85592

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	133.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 09:40:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62567.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 89.99 ug/L m Dw 3/27/09

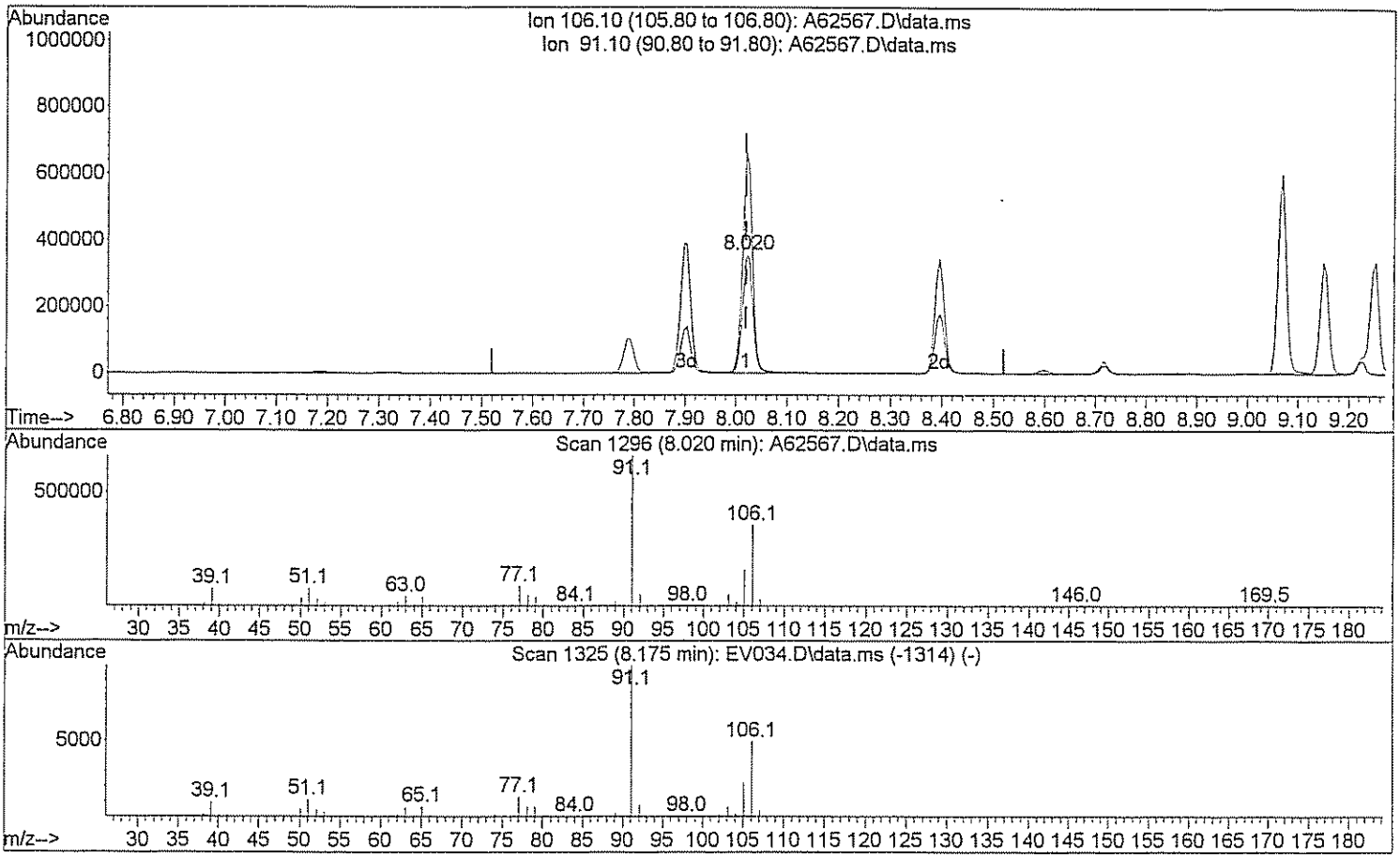
response 188807

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 09:40:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62567.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 98.16 ug/L

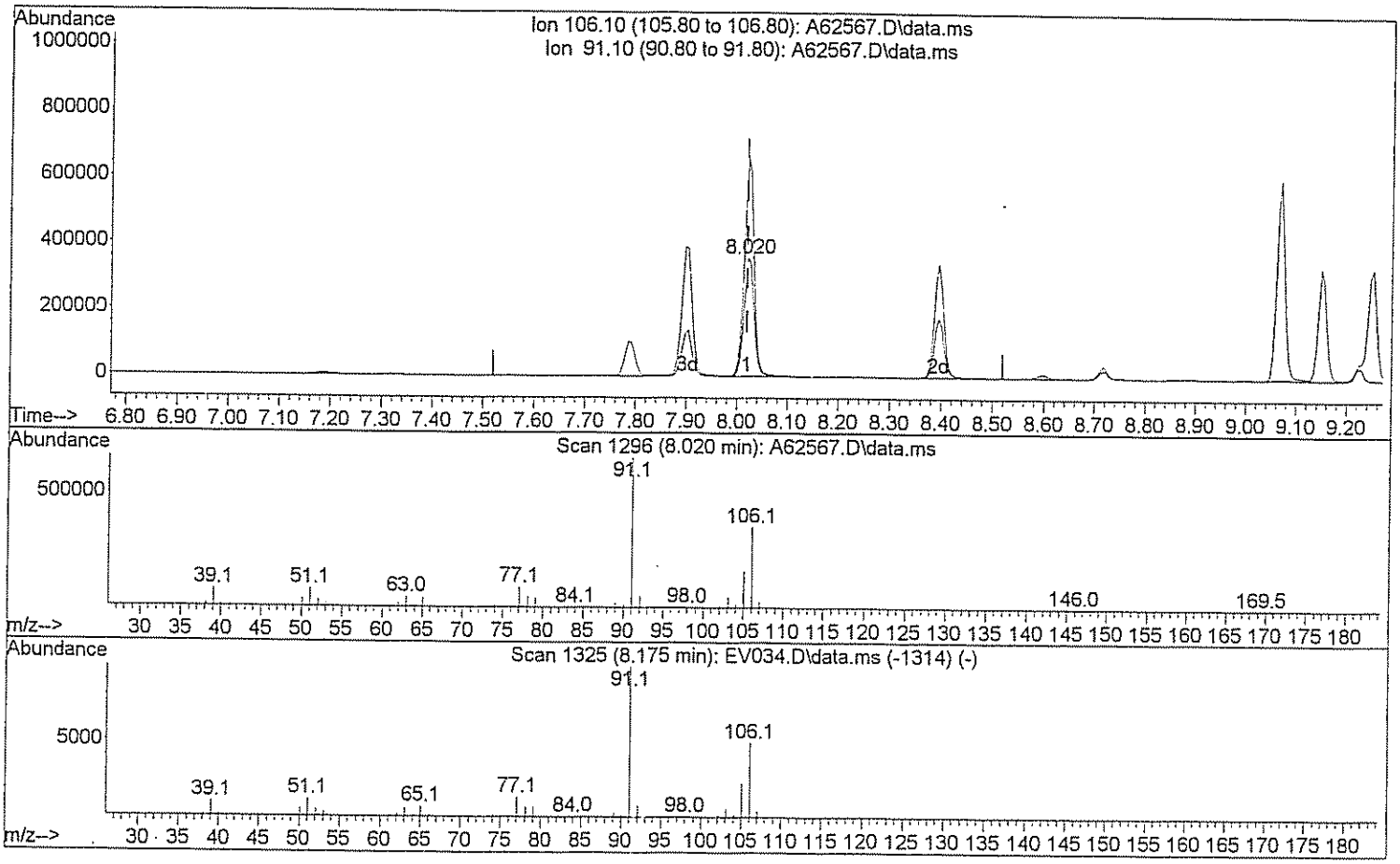
response 498111

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	180.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62567.D
Acq On : 26 Mar 2009 9:20
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 09:40:21 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62567.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 144.66 ug/L m AM 3/27/09

response 734059

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	122.72#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 30 12:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	73	0.00
2		Dichlorodifluoromethane	0.089	0.068	23.6#	51	0.00
3		Chloromethane	0.174	0.135	22.4#	68	0.00
4		Vinyl chloride	0.207	0.166	19.8	57	-0.01
5		Bromomethane	0.115	0.207	-80.0#	193#	0.00
6		Chloroethane	0.145	0.223	-53.8#	114	0.00
7		Trichlorofluoromethane	0.256	0.481	-87.9#	121	-0.01
8		Ethyl Ether	0.178	0.188	-5.6	72	0.00
9		Freon 113	0.158	0.215	-36.1#	95	-0.01
10		Acrolein	0.036	0.032	11.1	65	0.00
11		Tert-Butyl alcohol	0.020	0.020	0.0	55	0.00
12		1,1-Dichloroethene	0.182	0.198	-8.8	77	-0.01
13		Iodomethane	0.211	0.224	-6.2	179#	0.00
14		Acetonitrile	0.108	0.168	-55.6#	99	0.00
15		Methylene chloride	0.252	0.227	9.9	74	0.00
16		Trans-1,2-dichloroethene	0.209	0.226	-8.1	75	0.00
17		Isopropyl ether	0.812	0.818	-0.7	68	0.00
18		1,1-Dichloroethane	0.374	0.410	-9.6	73	0.00
19		Acetone	0.095	0.077	18.9	62	0.00
20		Methyl Acetate	0.186	0.217	-16.7	62	0.00
21		MTBE	0.545	0.644	-18.2	77	0.00
22		Carbon disulfide	0.679	0.554	18.4	66	-0.01
23		Allyl Chloride	0.000	0.000	0.0	93	0.00
24		Acrylonitrile	0.063	0.064	-1.6	69	0.00
25		Chloroprene	0.357	0.339	5.0	70	0.00
26	T	n-Heptane	0.183	0.006	96.7#	3#	0.12
27		2,2-Dichloropropane	0.313	0.311	0.6	68	0.00
28		Cis-1,2-dichloroethene	0.253	0.255	-0.8	74	0.00
29		1,2-dichloroethene(total)	0.268	0.248	7.5	75	0.00
30		Propionitrile	0.031	0.030	3.2	63	0.00
31		Bromochloromethane	0.109	0.154	-41.3#	95	0.00
32		Tetrahydrofuran	0.051	0.058	-13.7	76	0.00
33		Chloroform	0.426	0.465	-9.2	85	0.00
34		Cyclohexane	0.392	0.352	10.2	72	-0.01
35		1,1,1-Trichloroethane	0.318	0.375	-17.9	82	0.00
36		Carbon tetrachloride	0.272	0.366	-34.6#	92	0.00
37		Methacrylonitrile	0.170	0.187	-10.0	78	0.00
38		Methylcyclohexane	0.338	0.397	-17.5	87	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 30 12:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.011	26.7#	50#	-0.17
40	SS	1,2-Dichloroethane-d4	0.266	0.276	-3.8	76	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
42		2-Butanone	0.163	0.143	12.3	64	0.00
43		1,1-Dichloropropene	0.339	0.312	8.0	71	0.00
44		Vinyl Acetate	0.381	0.252	33.9#	53	0.00
45		Benzene	1.058	0.961	9.2	72	0.00
46		1,2-Dichloroethane	0.332	0.321	3.3	75	0.00
47		Trichloroethene	0.272	0.272	0.0	82	0.00
48		1,2-Dichloropropane	0.271	0.271	0.0	76	0.00
49		Methyl methacrylate	0.196	0.190	3.1	79	0.00
50		Dibromomethane	0.167	0.182	-9.0	87	0.00
51		Bromodichloromethane	0.354	0.374	-5.6	83	0.00
52		2-Chloroethylvinyl ether	0.108	0.144	-33.3#	73	0.00
53		Cis-1,3-dichloropropene	0.427	0.430	-0.7	77	0.00
54	SS	Toluene-d8	1.159	1.254	-8.2	91	0.00
55		Toluene	0.694	0.759	-9.4	86	0.00
56		Trans-1,3-dichloropropene	0.387	0.408	-5.4	79	0.00
57		Ethyl methacrylate	0.347	0.361	-4.0	83	0.00
58		1,1,2-Trichloroethane	0.208	0.228	-9.6	87	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
60		4-Methyl-2-pentanone	0.292	0.255	12.7	81	0.00
61		2-Hexanone	0.210	0.178	15.2	77	0.00
62		Tetrachloroethene	0.288	0.381	-32.3#	128	0.00
63		1,3-Dichloropropane	0.416	0.373	10.3	85	0.00
64		Dibromochloromethane	0.301	0.310	-3.0	99	0.00
65		1,2-Dibromoethane	0.257	0.238	7.4	90	0.00
66		1-Chlorohexane	0.432	0.356	17.6	83	0.00
67		Chlorobenzene	0.848	0.867	-2.2	98	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.329	-8.2	103	0.00
69		Ethylbenzene	1.451	1.329	8.4	91	0.00
70		m,p-Xylene	0.570	0.571	-0.2	95	0.00
71		o-Xylene	0.578	0.555	4.0	95	0.00
72		Xylene (Total)	0.586	0.567	3.2	95	0.00
73		Styrene	0.960	0.939	2.2	94	0.00
74		Bromoform	0.187	0.205	-9.6	99	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 30 12:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.226	0.2	97	0.00
76	SS	4-Bromofluorobenzene	0.471	0.456	3.2	98	0.00
77		Bromobenzene	0.336	0.397	-18.2	115	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.306	7.3	88	0.00
79		1,2,3-Trichloropropane	0.098	0.102	-4.1	100	0.00
80		n-Propylbenzene	1.700	1.556	8.5	89	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.088	-6.0	83	0.00
82		2-Chlorotoluene	0.361	0.392	-8.6	105	0.00
83		4-Chlorotoluene	0.374	0.407	-8.8	107	0.00
84		1,3,5-Trimethylbenzene	1.207	1.199	0.7	96	0.00
85		Tert-butylbenzene	1.049	1.125	-7.2	103	0.00
86		Pentachloroethane	0.000	0.000	0.0	92	0.00
87		1,2,4-Trimethylbenzene	1.254	1.259	-0.4	98	0.00
88		Sec-Butylbenzene	1.607	1.641	-2.1	98	0.00
89		1,3-Dichlorobenzene	0.706	0.840	-19.0	117	0.00
90		4-Isopropyltoluene	1.367	1.576	-15.3	107	0.00
91		1,4-Dichlorobenzene	0.708	0.850	-20.1#	116	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.552	-19.5	122	0.00
93		1,2-Dichlorobenzene	0.674	0.799	-18.5	119	0.00
94		n-Butylbenzene	1.349	1.275	5.5	94	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.050	12.3	82	0.00
96		1,2,4-Trichlorobenzene	0.409	0.491	-20.0#	121	0.00
97		Hexachlorobutadiene	0.190	0.232	-22.1#	121	0.00
98		Naphthalene	0.975	1.154	-18.4	107	0.00
99		1,2,3-Trichlorobenzene	0.342	0.414	-21.1#	117	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 30 12:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	377141	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	353860	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	411894	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	104158	51.99	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.98%				
54) Toluene-d8	6.142	98	443796	54.12	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 108.24%				
76) 4-Bromofluorobenzene	8.881	95	187741	48.35	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.70%				
92) 1,2-Dichlorobenzene-d4	10.085	152	227214	59.67	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 119.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	25698	38.46	ug/L		97
3) Chloromethane	1.322	50	50867	38.69	ug/L		99
4) Vinyl chloride	1.386	62	62546	40.08	ug/L		97
5) Bromomethane	1.616	94	78083	94.32	ug/L		91
6) Chloroethane	1.686	64	84243	76.89	ug/L		96
7) Trichlorofluoromethane	1.830	101	181509	79.28	ug/L		98
8) Ethyl Ether	2.044	59	70727	52.72	ug/L		94
9) Freon 113	2.173	101	81182	68.02	ug/L		90
10) Acrolein	2.189	56	60031	222.55	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	147349	962.65	ug/L	#	47
12) 1,1-Dichloroethene	2.199	96	74850	54.64	ug/L		85
13) Iodomethane	2.328	142	84536	53.06	ug/L		95
14) Acetonitrile	2.478	40	633885	631.48	ug/L	#	1
15) Methylene chloride	2.590	84	85609	48.26	ug/L		97
16) Trans-1,2-dichloroethene	2.750	96	85417	54.29	ug/L		83
17) Isopropyl ether	3.087	45	308566	50.41	ug/L		98
18) 1,1-Dichloroethane	3.109	63	154729	54.87	ug/L		100
19) Acetone	2.296	43	57872	89.86	ug/L		91
20) Methyl Acetate	4.264	43	82002	43.67	ug/L	#	100
21) MTBE	2.734	73	242757	59.09	ug/L		100
22) Carbon disulfide	2.349	76	208919	43.97	ug/L		100
24) Acrylonitrile	2.831	53	119991	251.46	ug/L		99
25) Chloroprene	3.141	53	127974	47.51	ug/L		91
26) n-Heptane	4.559	71	2430	1.76	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	117176	49.67	ug/L	#	66
28) Cis-1,2-dichloroethene	3.574	96	96326	50.45	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 30 12:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.750	96	187139m	92.59	ug/L		
30) Propionitrile	3.735	54	113524	481.81	ug/L		99
31) Bromochloromethane	3.778	128	58110	70.55	ug/L	#	65
32) Tetrahydrofuran	3.783	72	21803	56.36	ug/L	#	1
33) Chloroform	3.836	83	175363	54.54	ug/L		100
34) Cyclohexane	3.927	56	132900	47.32	ug/L		89
35) 1,1,1-Trichloroethane	3.954	97	141405	58.93	ug/L		96
36) Carbon tetrachloride	4.061	117	138158	67.25	ug/L		98
37) Methacrylonitrile	3.826	41	704469	549.45	ug/L	#	22
38) Methylcyclohexane	4.987	83	149627	58.64	ug/L	#	87
39) Isobutyl Alcohol	4.264	43	82002	733.36	ug/L		92
42) 2-Butanone	3.612	43	100959	87.46	ug/L		99
43) 1,1-Dichloropropene	4.093	75	110437	46.04	ug/L		95
44) Vinyl Acetate	3.136	43	89069	33.00	ug/L		97
45) Benzene	4.280	78	340107	45.41	ug/L		100
46) 1,2-Dichloroethane	4.371	62	113576	48.37	ug/L	#	88
47) Trichloroethene	4.880	95	96084	49.96	ug/L	#	67
48) 1,2-Dichloropropane	5.163	63	95810	49.92	ug/L		97
49) Methyl methacrylate	5.259	69	67242	48.38	ug/L		90
50) Dibromomethane	5.276	93	64517	54.65	ug/L		99
51) Bromodichloromethane	5.431	83	132491	52.89	ug/L	#	98
52) 2-Chloroethylvinyl ether	5.778	63	204475	267.61	ug/L		92
53) Cis-1,3-dichloropropene	5.912	75	152045	50.36	ug/L		93
55) Toluene	6.217	92	268579	54.71	ug/L		98
56) Trans-1,3-dichloropropene	6.570	75	144210	52.72	ug/L		95
57) Ethyl methacrylate	6.618	69	127701	51.99	ug/L		98
58) 1,1,2-Trichloroethane	6.768	83	80583	54.71	ug/L		93
60) 4-Methyl-2-pentanone	6.094	43	210040	87.44	ug/L		95
61) 2-Hexanone	7.062	43	146237	84.34	ug/L		95
62) Tetrachloroethene	6.790	166	156769	66.02	ug/L		100
63) 1,3-Dichloropropane	6.971	76	153473	44.79	ug/L		93
64) Dibromochloromethane	7.180	129	127598	51.43	ug/L		95
65) 1,2-Dibromoethane	7.314	107	97958	46.27	ug/L		95
66) 1-Chlorohexane	7.785	91	146456	41.12	ug/L		95
67) Chlorobenzene	7.806	112	356944	51.11	ug/L	#	83
68) 1,1,1,2-Tetrachloroethane	7.908	131	135316	54.10	ug/L		100
69) Ethylbenzene	7.897	91	547611	45.81	ug/L		95
70) m,p-Xylene	8.020	106	470348	100.16	ug/L		83
71) o-Xylene	8.394	106	228512	48.02	ug/L		85
72) Xylene (Total)	8.020	106	700714m	145.25	ug/L		
73) Styrene	8.421	104	386899	48.93	ug/L		100
74) Bromoform	8.598	173	84441	54.88	ug/L		96

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 30 12:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

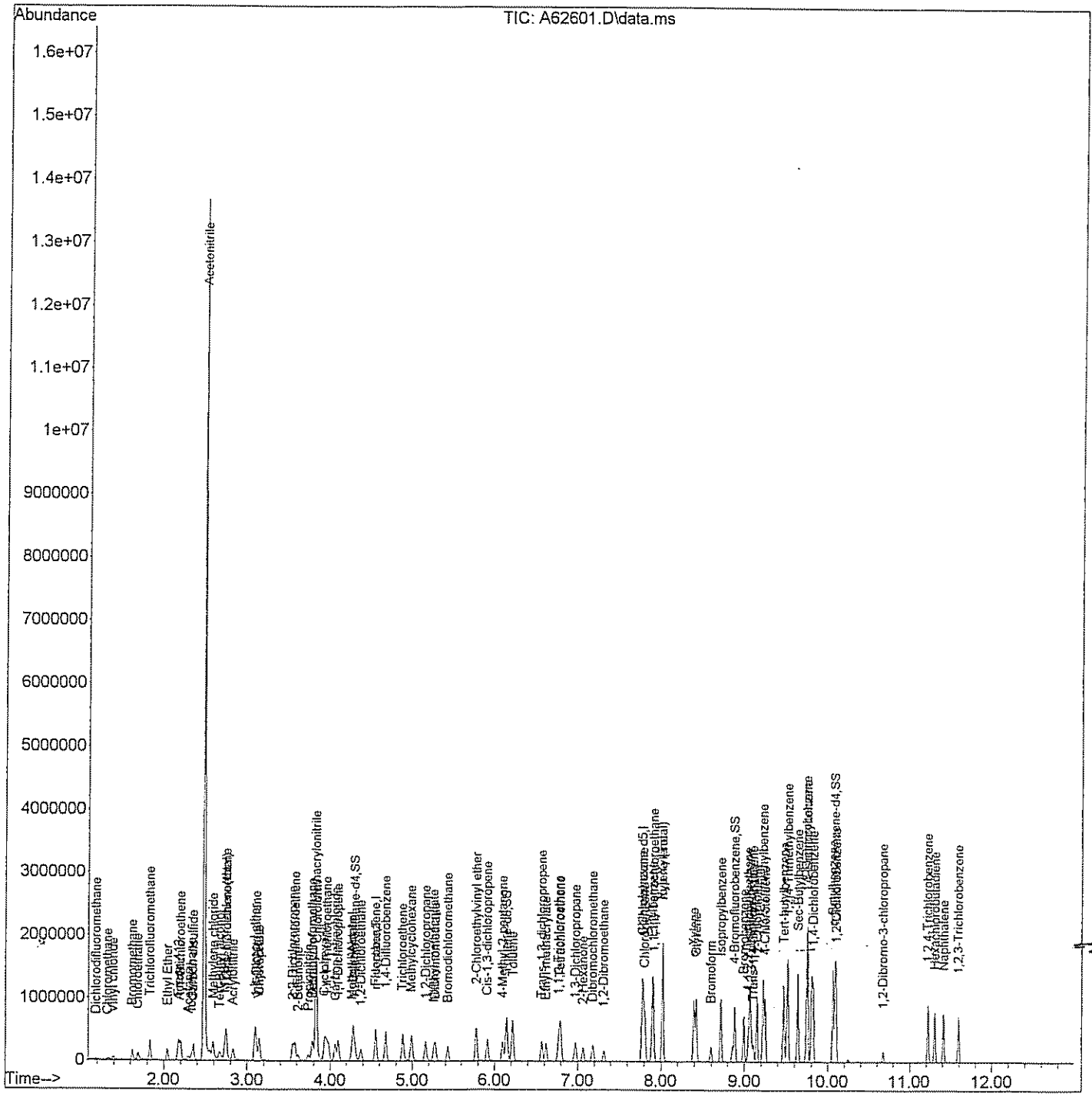
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	504791	49.89	ug/L		96
77) Bromobenzene	8.994	156	163466	59.01	ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.047	83	125958	46.30	ug/L		95
79) 1,2,3-Trichloropropane	9.085	110	42179	52.19	ug/L		100
80) n-Propylbenzene	9.063	91	641031	45.77	ug/L		91
81) Trans-1,4-dichloro-2-b...	9.106	53	36425	54.06	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	161399	54.34	ug/L	#	83
83) 4-Chlorotoluene	9.245	126	167629	54.38	ug/L		69
84) 1,3,5-Trimethylbenzene	9.224	105	493702	49.66	ug/L		90
85) Tert-butylbenzene	9.470	119	463329	53.64	ug/L		91
87) 1,2,4-Trimethylbenzene	9.518	105	518461	50.20	ug/L		89
88) Sec-Butylbenzene	9.641	105	675805	51.05	ug/L		92
89) 1,3-Dichlorobenzene	9.748	146	346118	59.54	ug/L		100
90) 4-Isopropyltoluene	9.753	119	649346	57.68	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	350241	60.05	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	329241	59.30	ug/L		98
94) n-Butylbenzene	10.058	91	525122	47.26	ug/L	#	86
95) 1,2-Dibromo-3-chloropr...	10.679	75	20471	43.93	ug/L	#	43
96) 1,2,4-Trichlorobenzene	11.219	180	202346	60.06	ug/L		97
97) Hexachlorobutadiene	11.305	225	95749	61.02	ug/L		99
98) Naphthalene	11.412	128	475153	59.18	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	170370	60.40	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

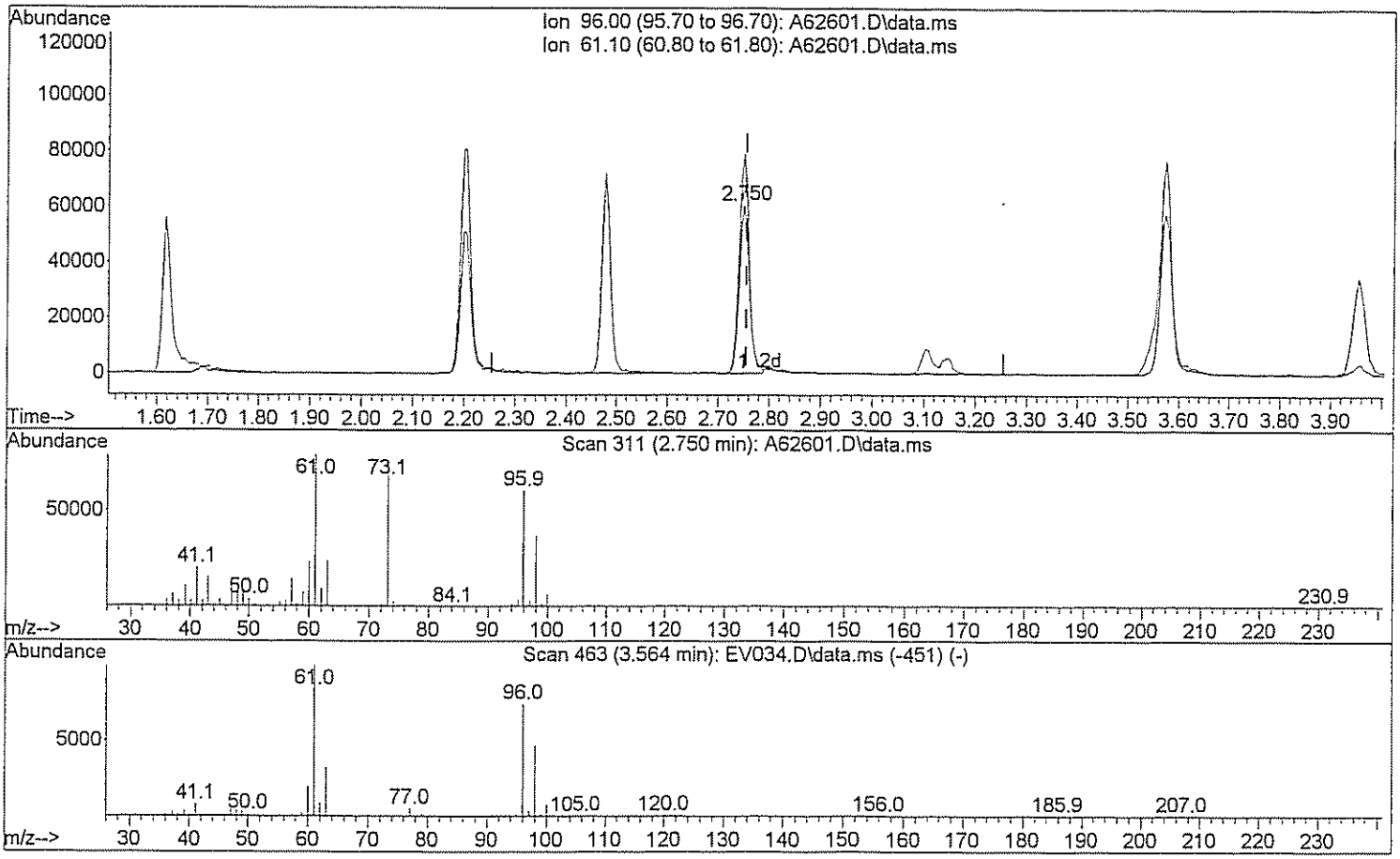
Quant Time: Mar 30 12:08:53 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 07:38:09 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62601.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 42.26 ug/L

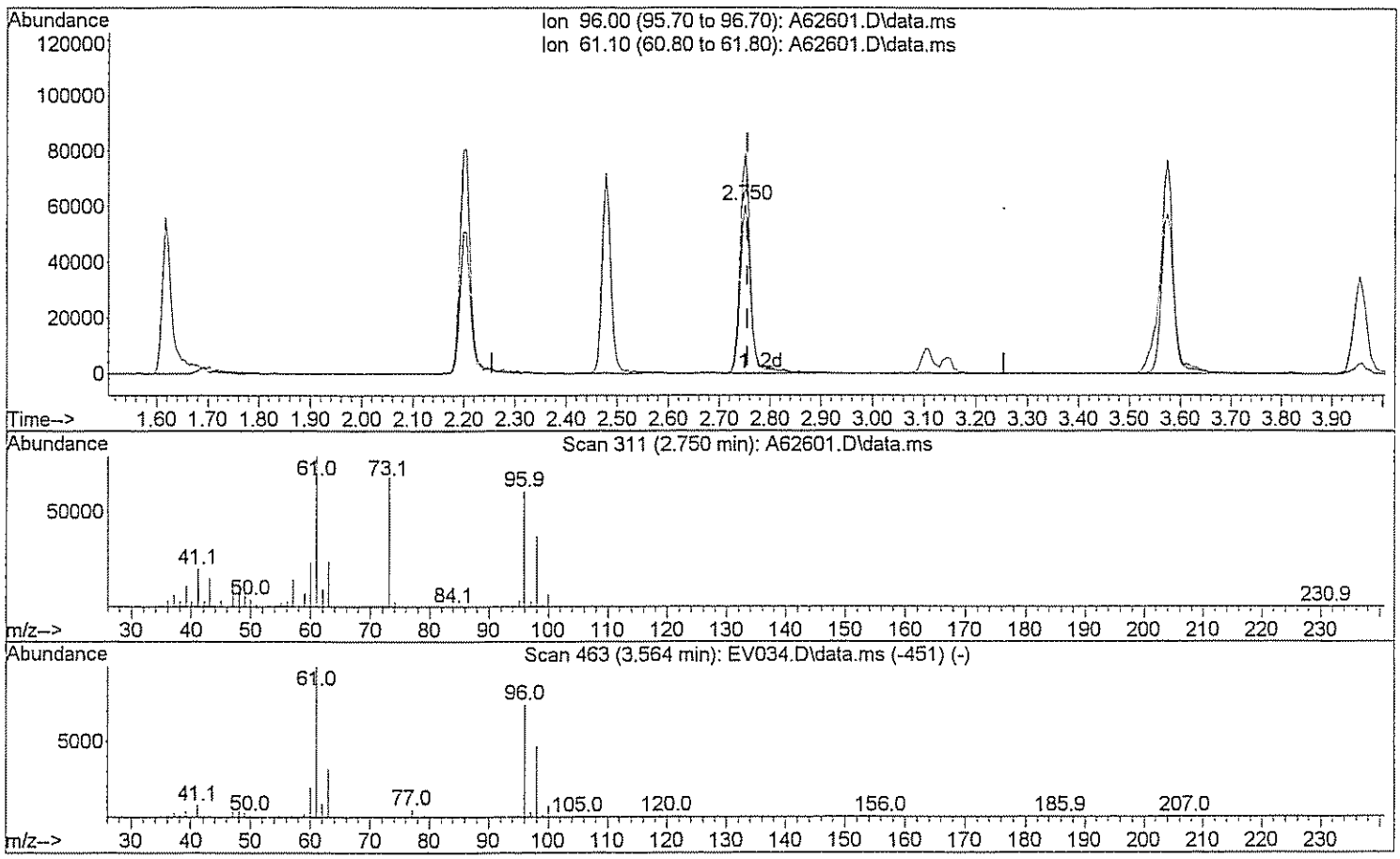
response 85417

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	132.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 07:38:09 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62601.D\data.ms

(29) 1,2-dichloroethene(total)

2.750min (-0.005) 92.59 ug/L m AM 3/30/09

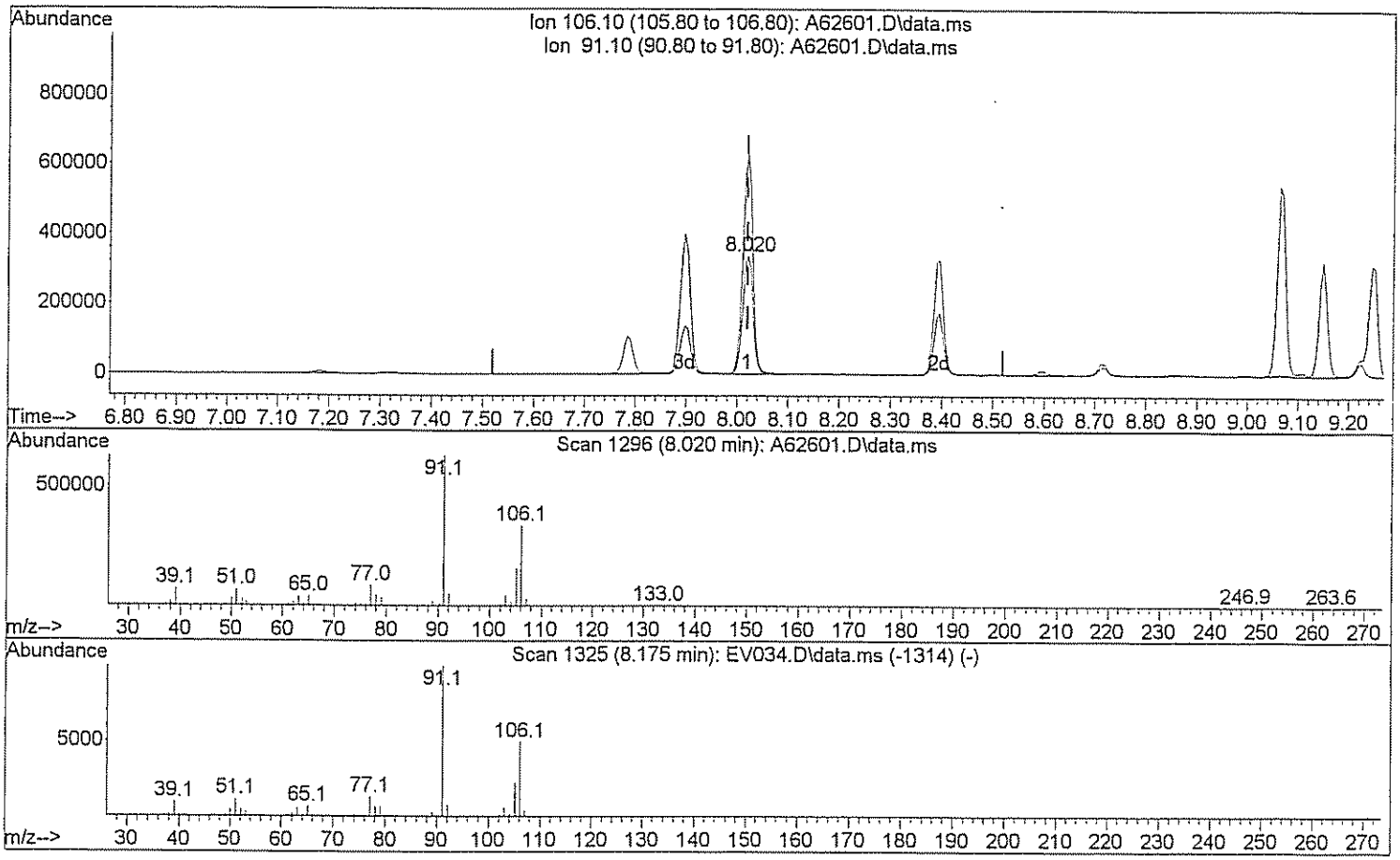
response 187139

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.49#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 07:38:09 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62601.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 97.50 ug/L

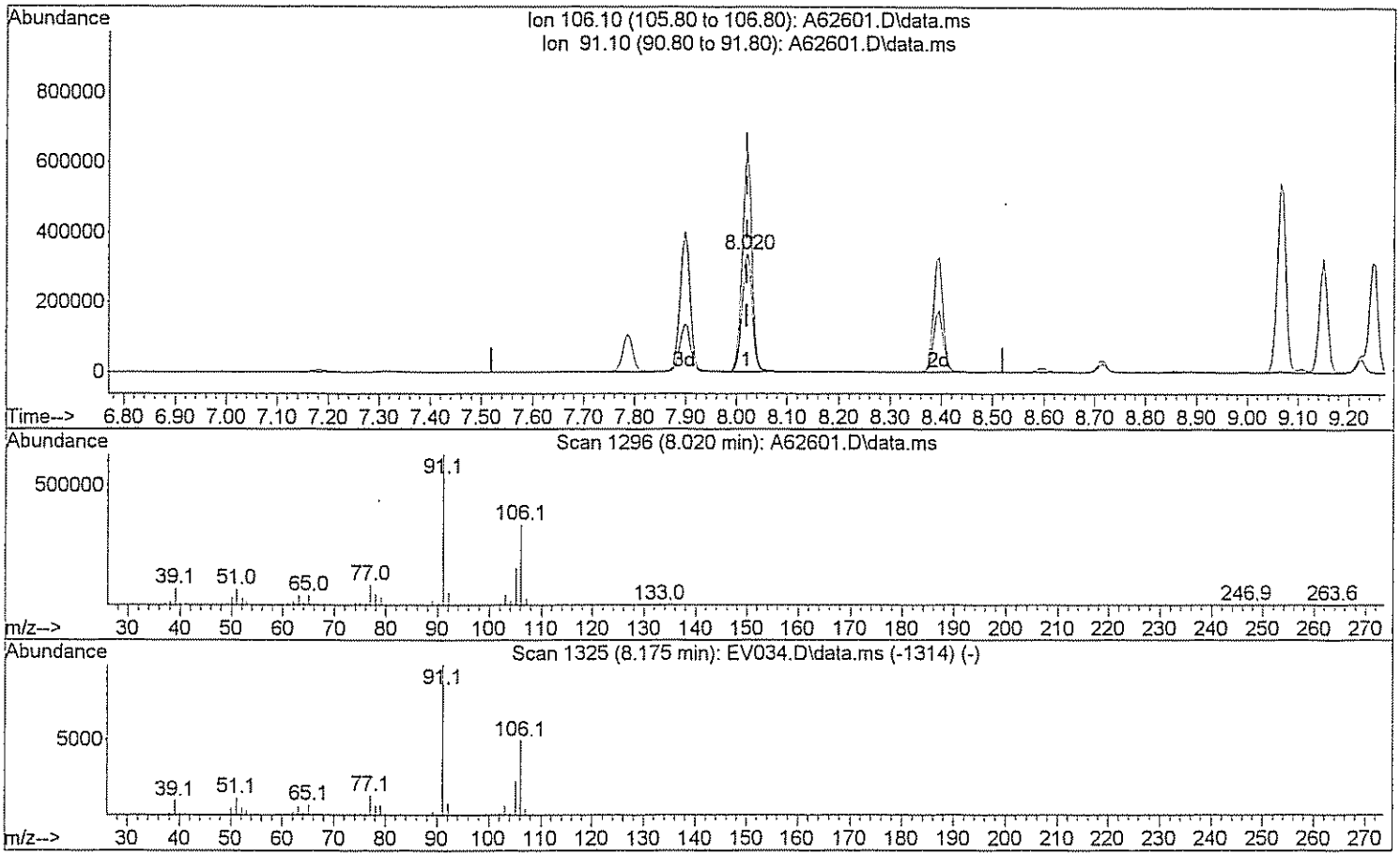
response 470348

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	181.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62601.D
Acq On : 26 Mar 2009 21:55
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 27 07:38:09 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62601.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 145.25 ug/L m AM 3/30/09

response 700714

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	122.10#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 14:13:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	137	0.00
2		Dichlorodifluoromethane	0.089	0.080	10.1	113	0.00
3		Chloromethane	0.174	0.141	19.0	133	0.00
4		Vinyl chloride	0.207	0.182	12.1	118	0.00
5		Bromomethane	0.115	0.487	-323.5#	852#	0.00
6		Chloroethane	0.145	0.193	-33.1#	186#	-0.02
7		Trichlorofluoromethane	0.256	0.347	-35.5#	164#	0.00
8		Ethyl Ether	0.178	0.178	0.0	128	0.00
9		Freon 113	0.158	0.207	-31.0#	171#	0.00
10		Acrolein	0.036	0.031	13.9	120	0.00
11		Tert-Butyl alcohol	0.020	0.020	0.0	107	0.00
12		1,1-Dichloroethene	0.182	0.195	-7.1	142	0.00
13		Iodomethane	0.211	0.308	-46.0#	463#	0.00
14		Acetonitrile	0.108	0.182	-68.5#	201#	0.00
15		Methylene chloride	0.252	0.219	13.1	134	0.00
16		Trans-1,2-dichloroethene	0.209	0.225	-7.7	139	0.00
17		Isopropyl ether	0.812	0.801	1.4	125	0.00
18		1,1-Dichloroethane	0.374	0.412	-10.2	137	0.00
19		Acetone	0.095	0.076	20.0#	115	0.00
20		Methyl Acetate	0.186	0.211	-13.4	113	0.02
21		MTBE	0.545	0.575	-5.5	129	0.00
22		Carbon disulfide	0.679	0.536	21.1#	120	0.00
23		Allyl Chloride	0.000	0.000	0.0	185#	0.00
24		Acrylonitrile	0.063	0.062	1.6	126	0.00
25		Chloroprene	0.357	0.370	-3.6	143	0.00
26	T	n-Heptane	0.183	0.007	96.2#	5#	0.12
27		2,2-Dichloropropane	0.313	0.320	-2.2	131	0.00
28		Cis-1,2-dichloroethene	0.253	0.248	2.0	134	0.00
29		1,2-dichloroethene(total)	0.268	0.245	8.6	138	0.00
30		Propionitrile	0.031	0.028	9.7	110	0.00
31		Bromochloromethane	0.109	0.136	-24.8#	157#	0.00
32		Tetrahydrofuran	0.051	0.047	7.8	116	0.00
33		Chloroform	0.426	0.457	-7.3	157#	0.00
34		Cyclohexane	0.392	0.348	11.2	133	0.00
35		1,1,1-Trichloroethane	0.318	0.365	-14.8	150	0.00
36		Carbon tetrachloride	0.272	0.333	-22.4#	157#	0.00
37		Methacrylonitrile	0.170	0.177	-4.1	138	0.00
38		Methylcyclohexane	0.338	0.373	-10.4	153#	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 14:13:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.015	0.011	26.7#	91	-0.16
40	SS	1,2-Dichloroethane-d4	0.266	0.276	-3.8	143	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	151#	0.00
42		2-Butanone	0.163	0.137	16.0	111	0.00
43		1,1-Dichloropropene	0.339	0.331	2.4	135	0.00
44		Vinyl Acetate	0.381	0.274	28.1#	103	0.00
45		Benzene	1.058	1.012	4.3	137	0.00
46		1,2-Dichloroethane	0.332	0.343	-3.3	144	0.00
47		Trichloroethene	0.272	0.274	-0.7	148	0.00
48		1,2-Dichloropropane	0.271	0.267	1.5	135	0.00
49		Methyl methacrylate	0.196	0.168	14.3	126	0.00
50		Dibromomethane	0.167	0.169	-1.2	145	0.00
51		Bromodichloromethane	0.354	0.358	-1.1	143	0.00
52		2-Chloroethylvinyl ether	0.108	0.049	54.6#	45#	0.00
53		Cis-1,3-dichloropropene	0.427	0.415	2.8	134	0.00
54	SS	Toluene-d8	1.159	1.182	-2.0	154#	0.00
55		Toluene	0.694	0.705	-1.6	144	0.00
56		Trans-1,3-dichloropropene	0.387	0.376	2.8	131	0.00
57		Ethyl methacrylate	0.347	0.323	6.9	134	0.00
58		1,1,2-Trichloroethane	0.208	0.198	4.8	136	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	170#	0.00
60		4-Methyl-2-pentanone	0.292	0.245	16.1	129	0.00
61		2-Hexanone	0.210	0.174	17.1	124	0.00
62		Tetrachloroethene	0.288	0.317	-10.1	177#	0.00
63		1,3-Dichloropropane	0.416	0.367	11.8	138	0.00
64		Dibromochloromethane	0.301	0.274	9.0	144	0.00
65		1,2-Dibromoethane	0.257	0.227	11.7	143	0.00
66		1-Chlorohexane	0.432	0.394	8.8	153#	0.00
67		Chlorobenzene	0.848	0.846	0.2	159#	0.00
68		1,1,1,2-Tetrachloroethane	0.304	0.309	-1.6	160#	0.00
69		Ethylbenzene	1.451	1.406	3.1	159#	0.00
70		m,p-Xylene	0.570	0.597	-4.7	164#	0.00
71		o-Xylene	0.578	0.574	0.7	163#	0.00
72		Xylene (Total)	0.586	0.590	-0.7	164#	0.00
73		Styrene	0.960	0.977	-1.8	162#	0.00
74		Bromoform	0.187	0.192	-2.7	154#	0.00

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 14:13:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.228	1.267	-3.2	166#	0.00
76	SS	4-Bromofluorobenzene	0.471	0.469	0.4	167#	0.00
77		Bromobenzene	0.336	0.368	-9.5	176#	0.00
78		1,1,2,2-Tetrachloroethane	0.330	0.305	7.6	146	0.00
79		1,2,3-Trichloropropane	0.098	0.098	0.0	160#	0.00
80		n-Propylbenzene	1.700	1.706	-0.4	162#	0.00
81		Trans-1,4-dichloro-2-butene	0.083	0.074	10.8	115	0.00
82		2-Chlorotoluene	0.361	0.370	-2.5	164#	0.00
83		4-Chlorotoluene	0.374	0.395	-5.6	172#	0.00
84		1,3,5-Trimethylbenzene	1.207	1.263	-4.6	168#	0.00
85		Tert-butylbenzene	1.049	1.138	-8.5	172#	0.00
86		Pentachloroethane	0.000	0.000	0.0	167#	0.00
87		1,2,4-Trimethylbenzene	1.254	1.339	-6.8	173#	0.00
88		Sec-Butylbenzene	1.607	1.722	-7.2	170#	0.00
89		1,3-Dichlorobenzene	0.706	0.796	-12.7	183#	0.00
90		4-Isopropyltoluene	1.367	1.614	-18.1	182#	0.00
91		1,4-Dichlorobenzene	0.708	0.794	-12.1	180#	0.00
92	SS	1,2-Dichlorobenzene-d4	0.462	0.536	-16.0	196#	0.00
93		1,2-Dichlorobenzene	0.674	0.747	-10.8	185#	0.00
94		n-Butylbenzene	1.349	1.364	-1.1	166#	0.00
95		1,2-Dibromo-3-chloropropane	0.057	0.051	10.5	140	0.00
96		1,2,4-Trichlorobenzene	0.409	0.461	-12.7	188#	0.00
97		Hexachlorobutadiene	0.190	0.220	-15.8	190#	0.00
98		Naphthalene	0.975	0.975	0.0	150#	0.00
99		1,2,3-Trichlorobenzene	0.342	0.385	-12.6	181#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 14:13:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.559	96	708019	50.00	ug/L	# 0.00
41) 1,4-Difluorobenzene	4.677	114	638110	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	682391	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	195446	51.96	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.92%			
54) Toluene-d8	6.142	98	754529	51.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 102.06%			
76) 4-Bromofluorobenzene	8.881	95	320068	49.76	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.52%			
92) 1,2-Dichlorobenzene-d4	10.085	152	366069	58.03	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 116.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.188	85	56925	45.38	ug/L	97
3) Chloromethane	1.322	50	99702	40.40	ug/L	95
4) Vinyl chloride	1.392	62	128644	43.91	ug/L	99
5) Bromomethane	1.616	94	344779	161.12	ug/L	92
6) Chloroethane	1.670	64	136793	66.51	ug/L	99
7) Trichlorofluoromethane	1.836	101	245817	57.58	ug/L	98
8) Ethyl Ether	2.044	59	125977	50.02	ug/L	99
9) Freon 113	2.178	101	146322	65.31	ug/L	99
10) Acrolein	2.189	56	111029	219.25	ug/L #	74
11) Tert-Butyl alcohol	2.676	59	285580	993.82	ug/L #	47
12) 1,1-Dichloroethene	2.205	96	138074	53.69	ug/L	83
13) Iodomethane	2.333	142	218296	72.98	ug/L	96
14) Acetonitrile	2.483	40	1287570	680.54	ug/L #	1
15) Methylene chloride	2.590	84	155199	46.66	ug/L	100
16) Trans-1,2-dichloroethene	2.751	96	159451	53.99	ug/L	85
17) Isopropyl ether	3.093	45	567186	49.35	ug/L	97
18) 1,1-Dichloroethane	3.109	63	291466	55.06	ug/L	98
19) Acetone	2.296	43	107534	88.95	ug/L	91
20) Methyl Acetate	4.275	43	149356	42.12	ug/L #	100
21) MTBE	2.740	73	407138	52.79	ug/L	100
22) Carbon disulfide	2.355	76	379718	42.59	ug/L	100
24) Acrylonitrile	2.831	53	218488	243.90	ug/L	99
25) Chloroprene	3.147	53	261812	51.78	ug/L	93
26) n-Heptane	4.559	71	4859	1.88	ug/L #	1
27) 2,2-Dichloropropane	3.548	77	226755	51.20	ug/L #	74
28) Cis-1,2-dichloroethene	3.574	96	175578	48.98	ug/L	98

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 14:13:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	346773m	91.39 ug/L		
30) Propionitrile	3.735	54	200068	452.30 ug/L		95
31) Bromochloromethane	3.783	128	96315	62.29 ug/L	#	70
32) Tetrahydrofuran	3.788	72	33242	45.78 ug/L	#	1
33) Chloroform	3.837	83	323790	53.64 ug/L		99
34) Cyclohexane	3.933	56	246695	46.78 ug/L	#	83
35) 1,1,1-Trichloroethane	3.954	97	258674	57.42 ug/L		98
36) Carbon tetrachloride	4.061	117	235550	61.07 ug/L		100
37) Methacrylonitrile	3.826	41	1252062	520.18 ug/L	#	23
38) Methylcyclohexane	4.992	83	264118	55.14 ug/L		91
39) Isobutyl Alcohol	4.275	43	149356	711.50 ug/L		96
42) 2-Butanone	3.612	43	174530	83.85 ug/L		100
43) 1,1-Dichloropropene	4.099	75	211388	48.87 ug/L		95
44) Vinyl Acetate	3.136	43	174551	35.87 ug/L		100
45) Benzene	4.281	78	645523	47.79 ug/L		100
46) 1,2-Dichloroethane	4.377	62	219027m	51.73 ug/L		
47) Trichloroethene	4.885	95	174578	50.34 ug/L		87
48) 1,2-Dichloropropane	5.163	63	170539	49.28 ug/L		99
49) Methyl methacrylate	5.265	69	107089	42.73 ug/L		100
50) Dibromomethane	5.281	93	107683	50.58 ug/L		98
51) Bromodichloromethane	5.431	83	228221	50.52 ug/L	#	99
52) 2-Chloroethylvinyl ether	5.779	63	124927	90.67 ug/L		93
53) Cis-1,3-dichloropropene	5.918	75	265033	48.68 ug/L		95
55) Toluene	6.217	92	450106	50.84 ug/L		96
56) Trans-1,3-dichloropropene	6.570	75	240053	48.67 ug/L		99
57) Ethyl methacrylate	6.624	69	205933	46.49 ug/L		93
58) 1,1,2-Trichloroethane	6.774	83	126400	47.59 ug/L		87
60) 4-Methyl-2-pentanone	6.094	43	334038	83.94 ug/L		98
61) 2-Hexanone	7.062	43	237378	82.64 ug/L		97
62) Tetrachloroethene	6.795	166	216554	55.05 ug/L		94
63) 1,3-Dichloropropane	6.972	76	250484	44.12 ug/L		91
64) Dibromochloromethane	7.186	129	186648	45.41 ug/L		99
65) 1,2-Dibromoethane	7.314	107	154882	44.16 ug/L		97
66) 1-Chlorohexane	7.790	91	268837	45.56 ug/L		96
67) Chlorobenzene	7.806	112	577092	49.88 ug/L		86
68) 1,1,1,2-Tetrachloroethane	7.908	131	210808	50.87 ug/L		99
69) Ethylbenzene	7.897	91	959738	48.46 ug/L		98
70) m,p-Xylene	8.020	106	814853	104.74 ug/L		87
71) o-Xylene	8.395	106	391815	49.70 ug/L		88
72) Xylene (Total)	8.020	106	1208175m	151.17 ug/L		
73) Styrene	8.421	104	666974	50.91 ug/L		98
74) Bromoform	8.598	173	130903	51.35 ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 14:13:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

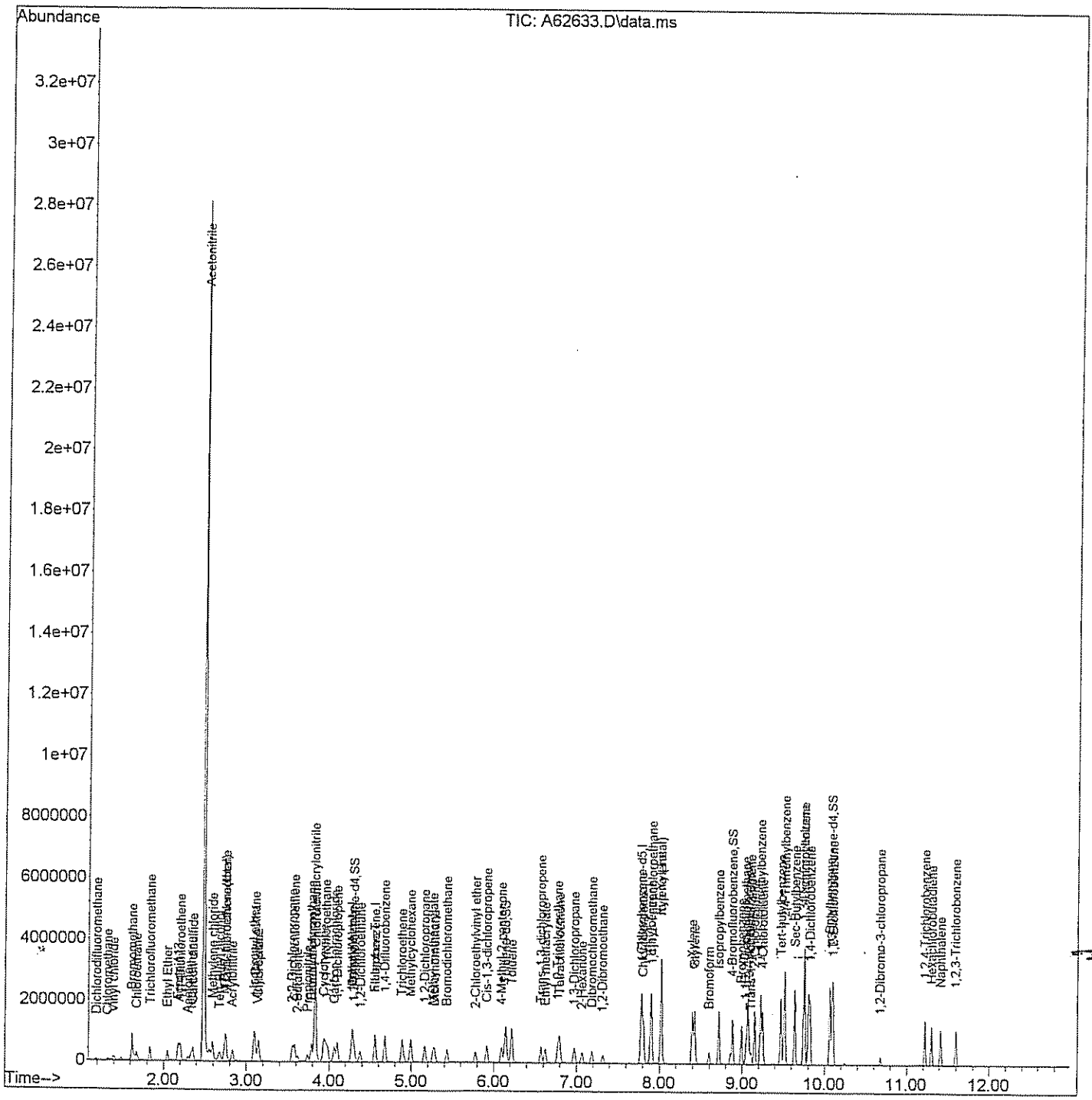
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.716	105	864797	51.59 ug/L	99
77) Bromobenzene	8.994	156	251169	54.73 ug/L	100
78) 1,1,2,2-Tetrachloroethane	9.047	83	208390	46.23 ug/L	94
79) 1,2,3-Trichloropropane	9.085	110	67194	50.19 ug/L	96
80) n-Propylbenzene	9.069	91	1163953	50.16 ug/L	96
81) Trans-1,4-dichloro-2-b...	9.106	53	50415	45.10 ug/L #	1
82) 2-Chlorotoluene	9.149	126	252608	51.34 ug/L	91
83) 4-Chlorotoluene	9.251	126	269777	52.82 ug/L	84
84) 1,3,5-Trimethylbenzene	9.224	105	862055	52.34 ug/L	94
85) Tert-butylbenzene	9.470	119	776394	54.25 ug/L	96
87) 1,2,4-Trimethylbenzene	9.518	105	913812	53.41 ug/L	92
88) Sec-Butylbenzene	9.641	105	1174848	53.56 ug/L	97
89) 1,3-Dichlorobenzene	9.748	146	543415	56.43 ug/L	99
90) 4-Isopropyltoluene	9.753	119	1101150	59.04 ug/L	99
91) 1,4-Dichlorobenzene	9.823	146	541755	56.06 ug/L	97
93) 1,2-Dichlorobenzene	10.101	146	509740	55.41 ug/L	97
94) n-Butylbenzene	10.058	91	930978	50.57 ug/L	93
95) 1,2-Dibromo-3-chloropr...	10.679	75	34840	45.13 ug/L #	79
96) 1,2,4-Trichlorobenzene	11.225	180	314468	56.34 ug/L	96
97) Hexachlorobutadiene	11.305	225	150363	57.84 ug/L	100
98) Naphthalene	11.412	128	665636	50.04 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	262968	56.27 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

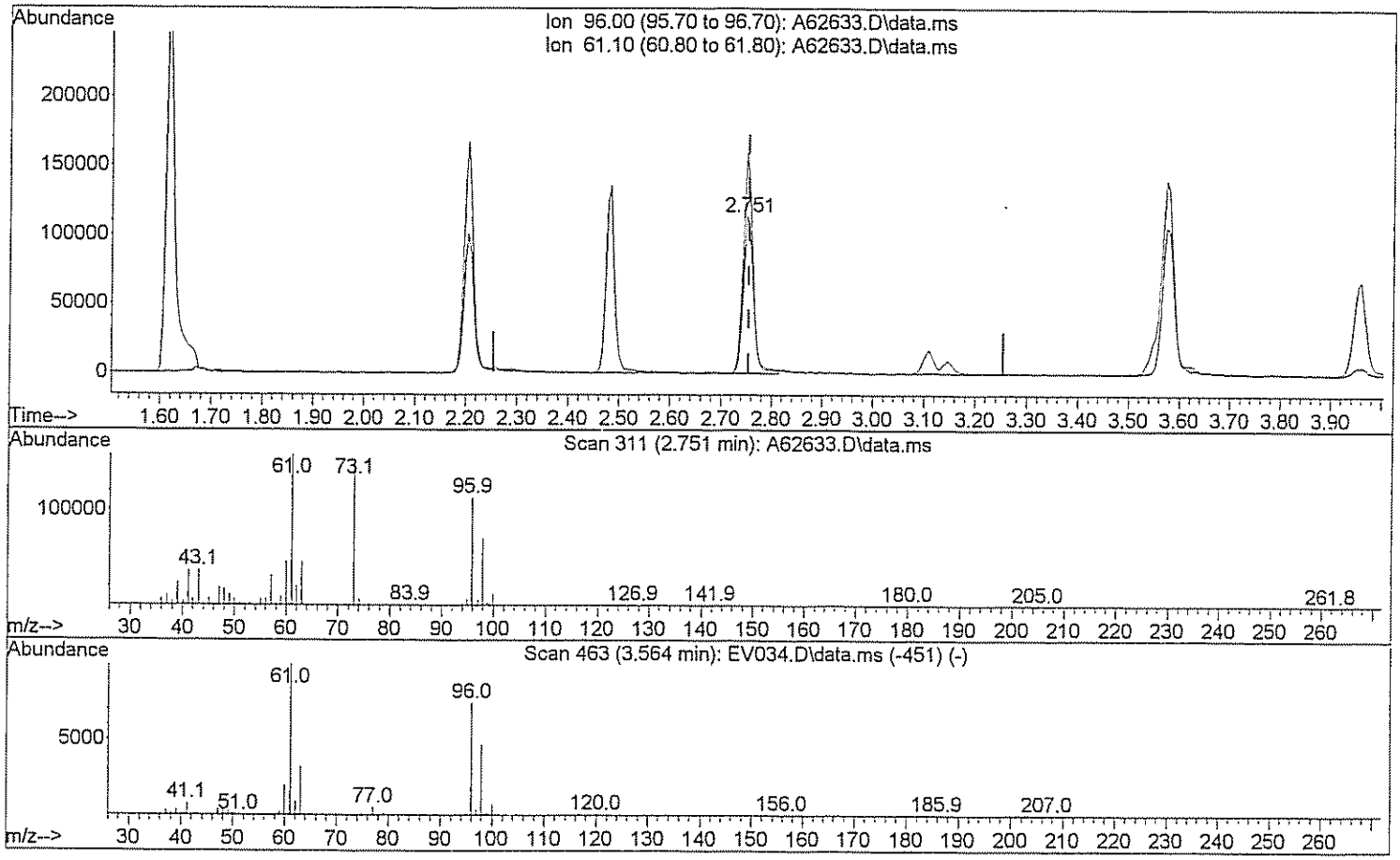
Quant Time: Mar 30 14:13:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 08:35:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62633.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 42.02 ug/L

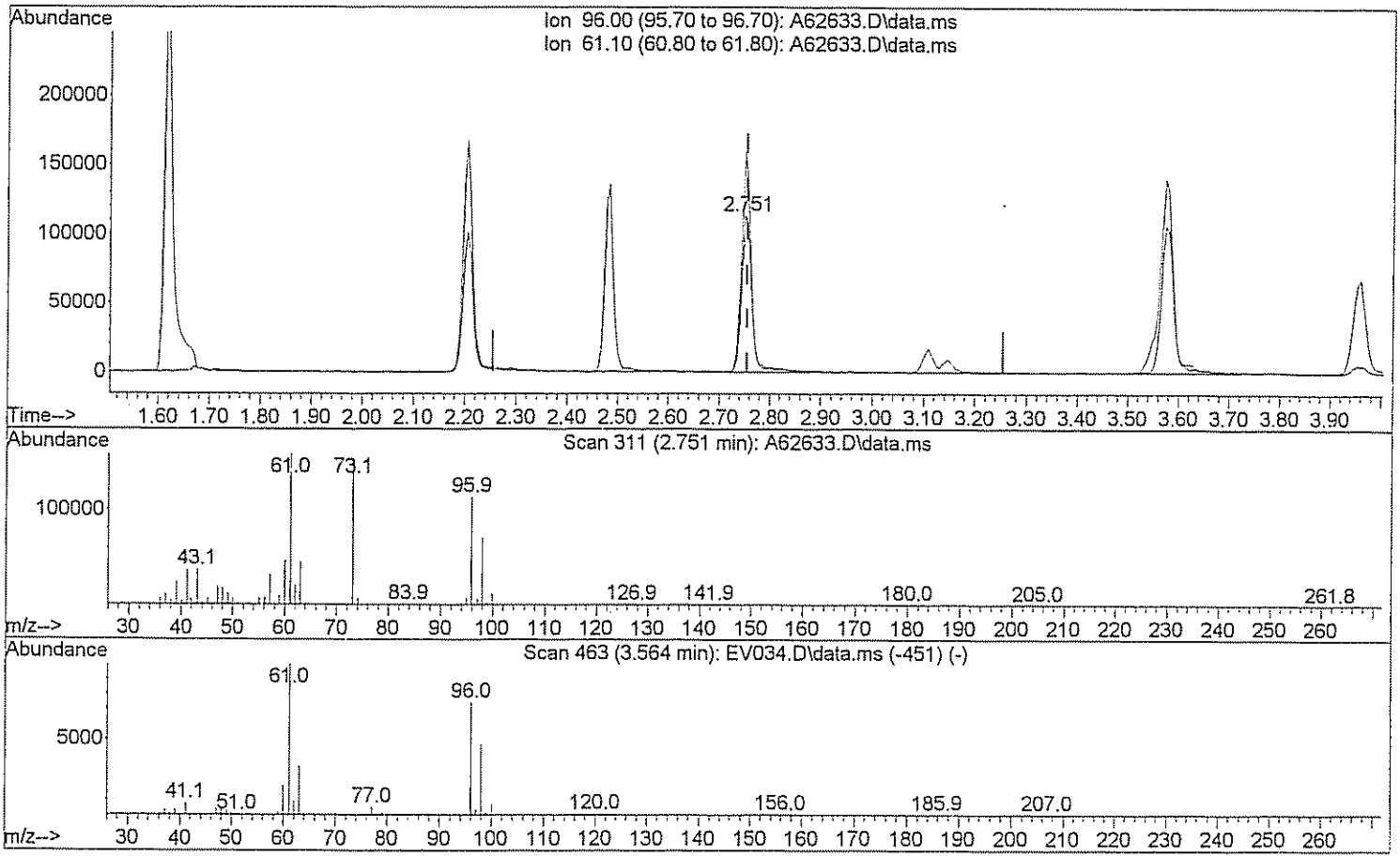
response 159451

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	136.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 08:35:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62633.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 91.39 ug/L m DM 3/30/09

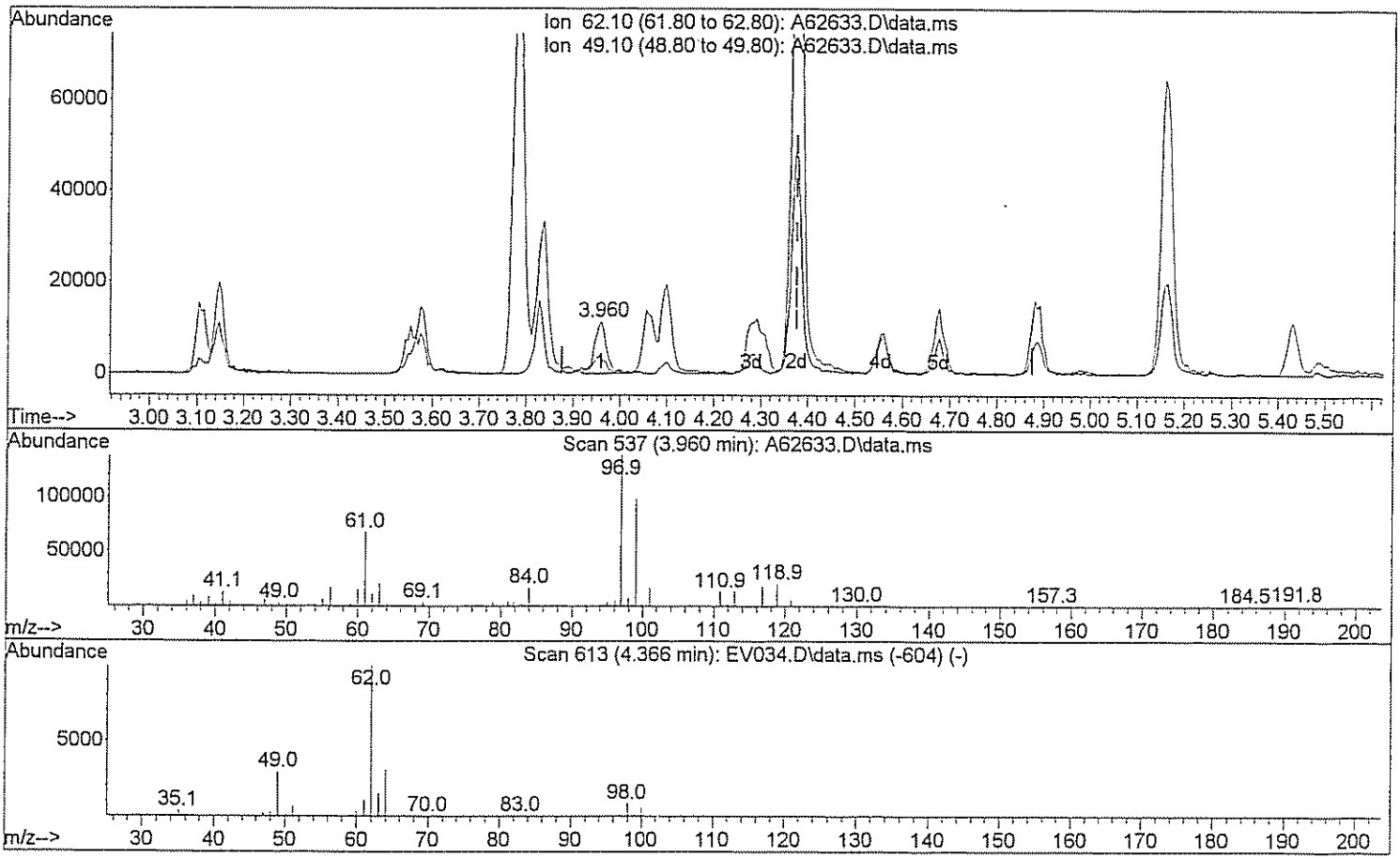
response 346773

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	62.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 08:35:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62633.D\data.ms

(46) 1,2-Dichloroethane

3.960min (-0.417) 4.83 ug/L

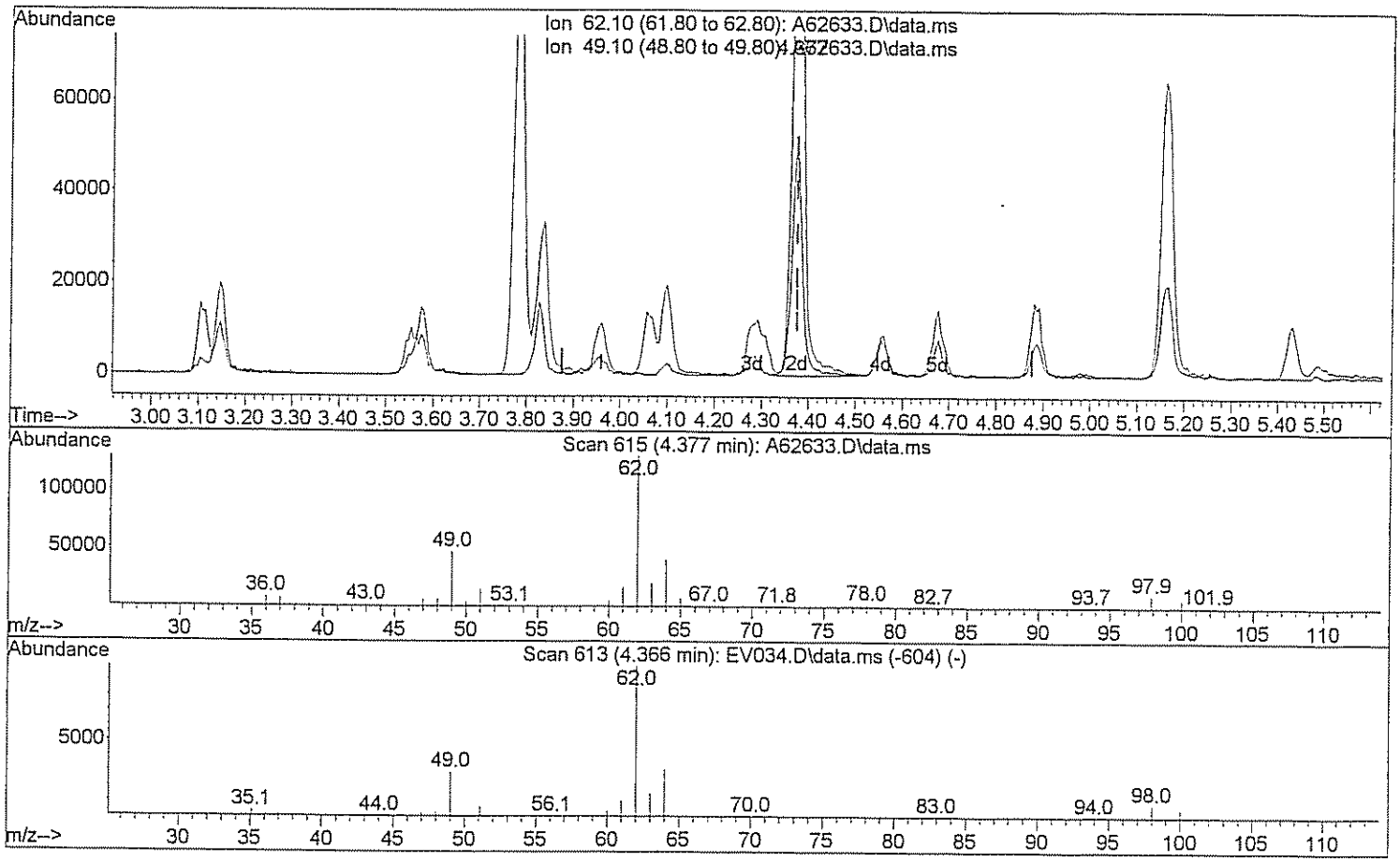
response 20434

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	29.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 08:35:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62633.D\data.ms

(46) 1,2-Dichloroethane

4.377min (+0.000) 51.73 ug/L m Am 3/30/09

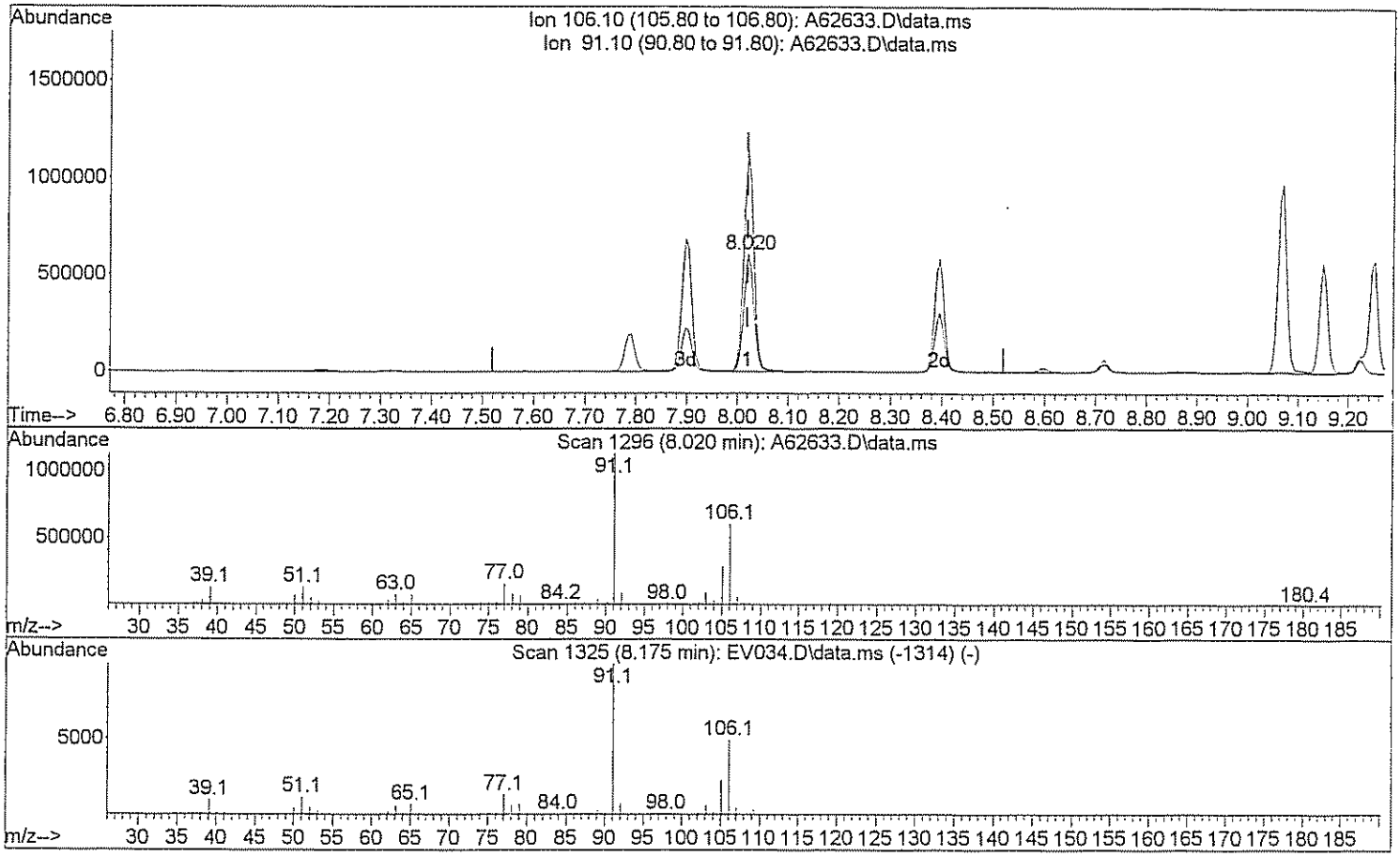
response 219027

Ion	Exp%	Act%
62.10	100	100
49.10	28.90	2.72#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 08:35:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62633.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 101.96 ug/L

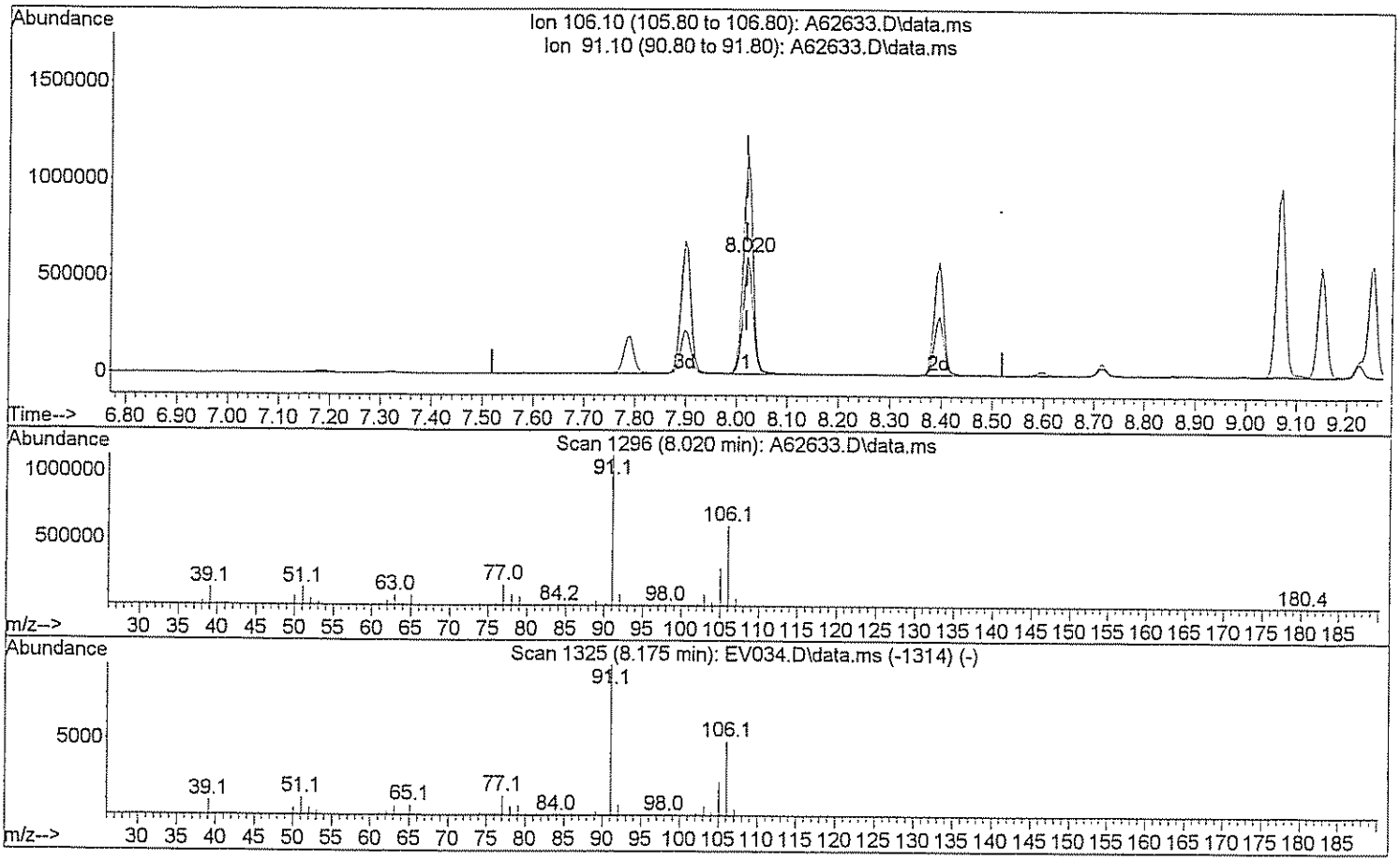
response 814853

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	188.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62633.D
Acq On : 27 Mar 2009 10:04
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 08:35:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62633.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 151.17 ug/L m

3/30/09

response 1208175

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	126.93#
0.00	0.00	0.00
0.00	0.00	0.00

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

6. Injection Logsheet

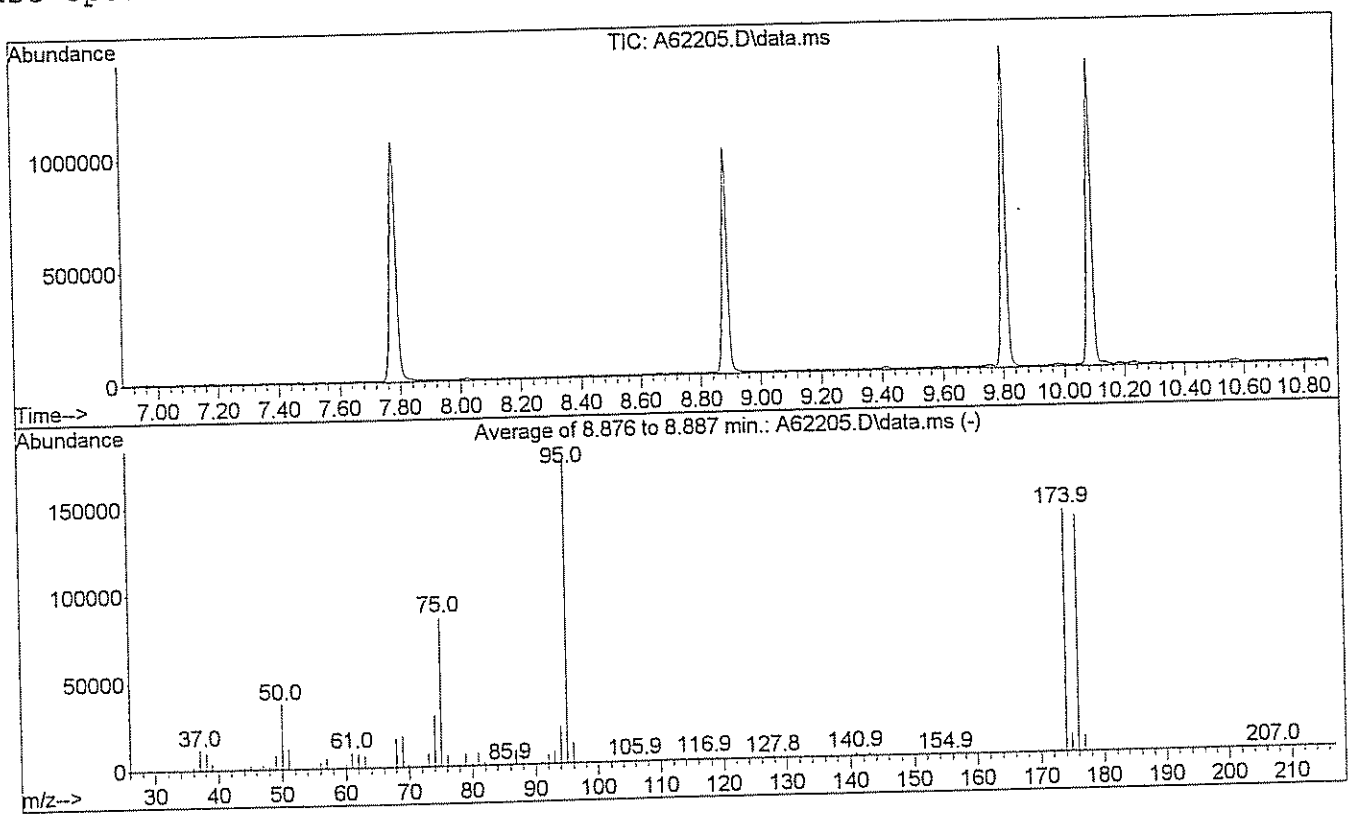
7. Control Charts (where applicable)

GPL Laboratories

Data Path : H:\GCMSDATA\A\031009C1\
Data File : A62205.D
Acq On : 10 Mar 2009 7:35
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Tue Mar 17 07:32:19 2009



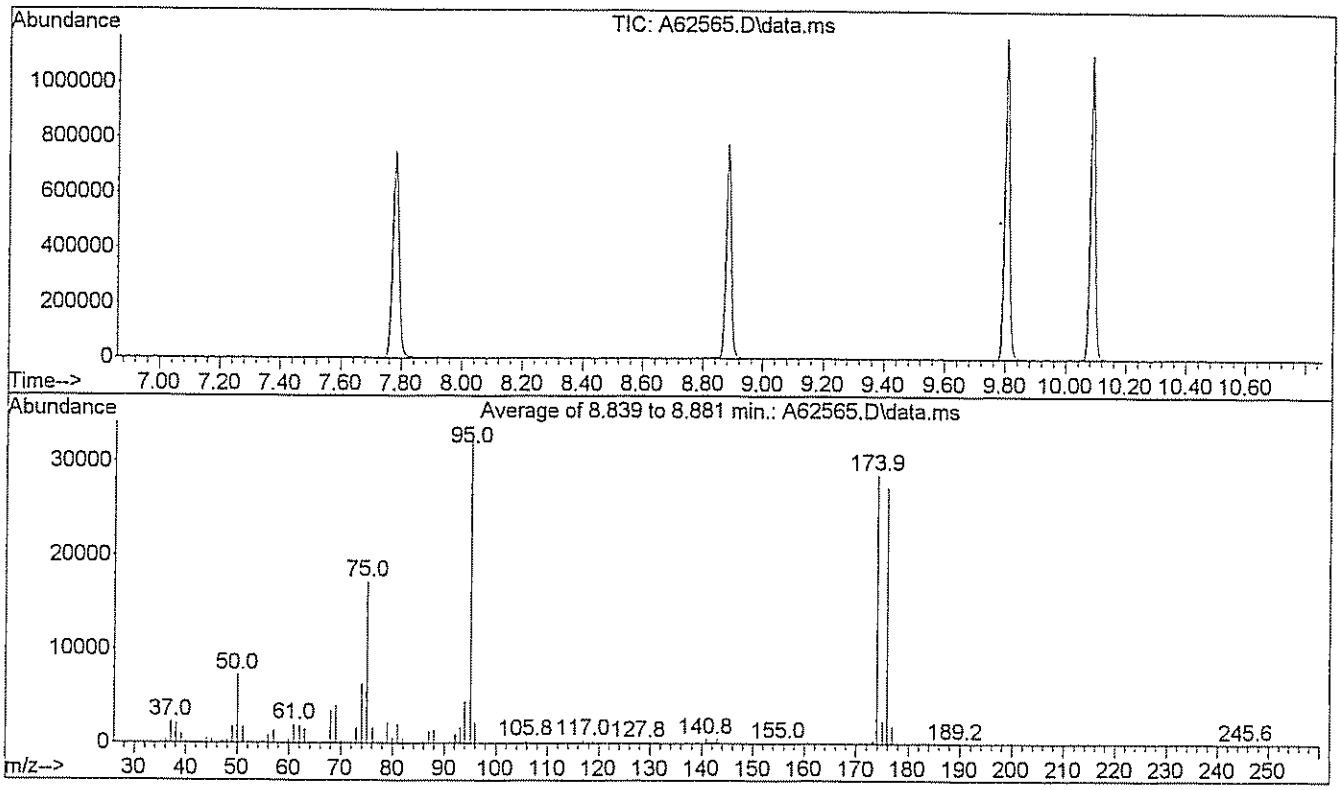
AutoFind: Scans 1456, 1457, 1458; Background Corrected with Scan 1448

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	36987	PASS
75	95	30	60	48.8	85267	PASS
95	95	100	100	100.0	174571	PASS
96	95	5	9	6.6	11522	PASS
173	174	0.00	2	0.8	1093	PASS
174	95	50	100	79.6	139005	PASS
175	174	5	9	7.4	10350	PASS
176	174	95	100	97.3	135299	PASS
177	176	5	9	6.5	8791	PASS

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62565.D
Acq On : 26 Mar 2009 8:27
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



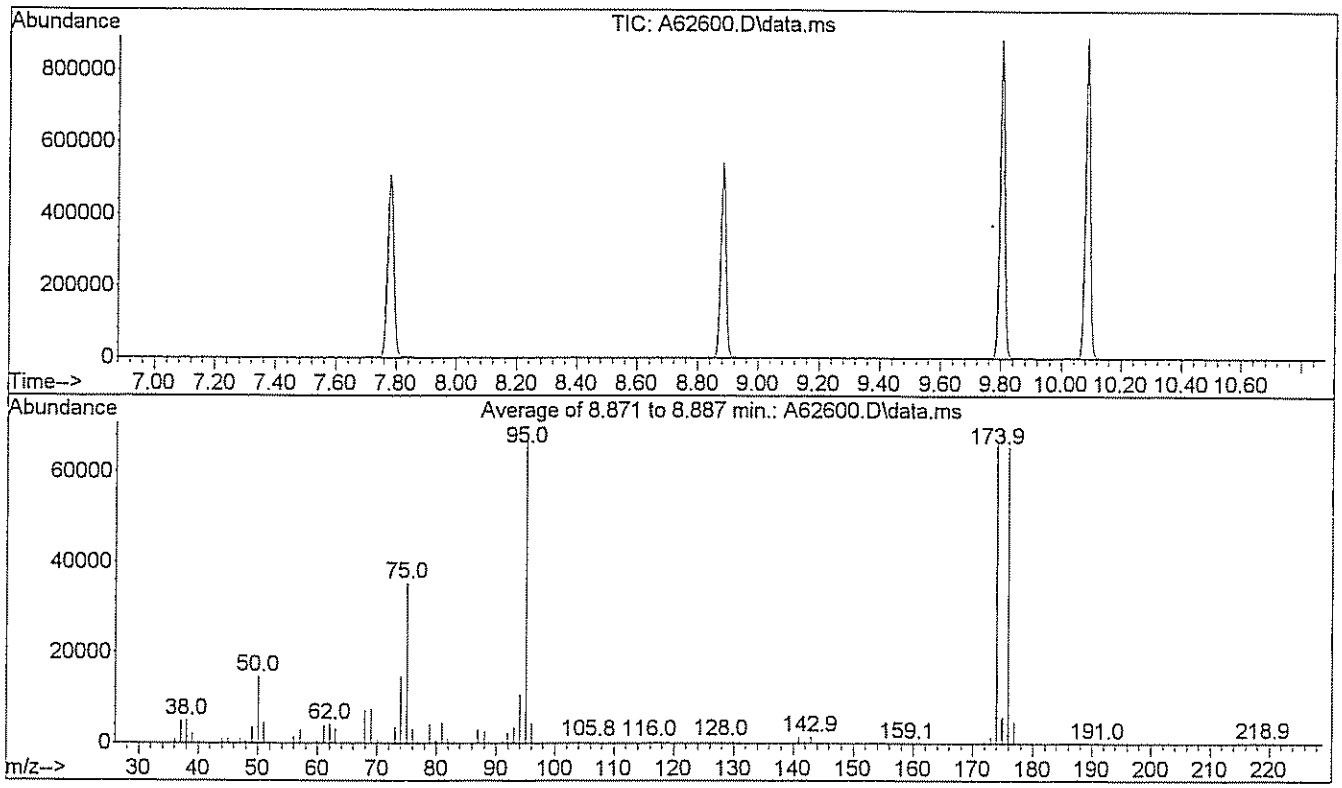
Spectrum Information: Average of 8.839 to 8.881 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	7255	PASS
75	95	30	60	53.1	17247	PASS
95	95	100	100	100.0	32507	PASS
96	95	5	9	6.9	2236	PASS
173	174	0.00	2	1.1	322	PASS
174	95	50	100	88.0	28606	PASS
175	174	5	9	8.4	2395	PASS
176	174	95	100	95.3	27273	PASS
177	176	5	9	6.8	1864	PASS

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62600.D
Acq On : 26 Mar 2009 21:35
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 68 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



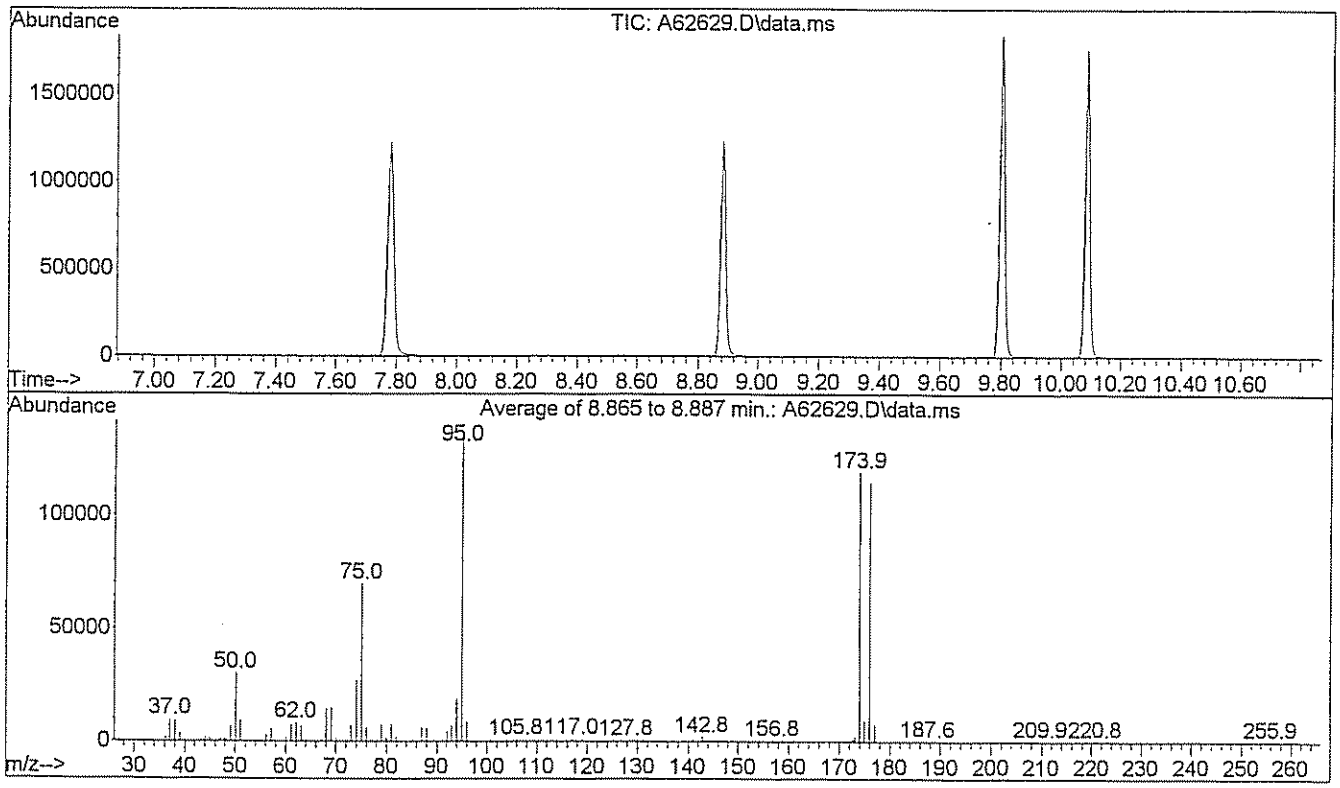
Spectrum Information: Average of 8.871 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	14635	PASS
75	95	30	60	52.4	35377	PASS
95	95	100	100	100.0	67496	PASS
96	95	5	9	6.5	4414	PASS
173	174	0.00	2	1.9	1261	PASS
174	95	50	100	98.7	66638	PASS
175	174	5	9	8.5	5686	PASS
176	174	95	100	98.3	65520	PASS
177	176	5	9	7.5	4898	PASS

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62629.D
Acq On : 27 Mar 2009 8:18
Operator : SM
Sample : BFB
Misc : BFB
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Title : 8260
Last Update : Thu Mar 19 01:45:09 2009



Spectrum Information: Average of 8.865 to 8.887 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	30038	PASS
75	95	30	60	51.7	69705	PASS
95	95	100	100	100.0	134949	PASS
96	95	5	9	6.4	8662	PASS
173	174	0.00	2	2.0	2355	PASS
174	95	50	100	88.3	119200	PASS
175	174	5	9	7.6	9108	PASS
176	174	95	100	96.3	114795	PASS
177	176	5	9	6.8	7773	PASS

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108871
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108871
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108871
Sample Volume :	5	Lab File ID :	A62571.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62571.D
Acq On : 26 Mar 2009 11:13
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 17:34:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

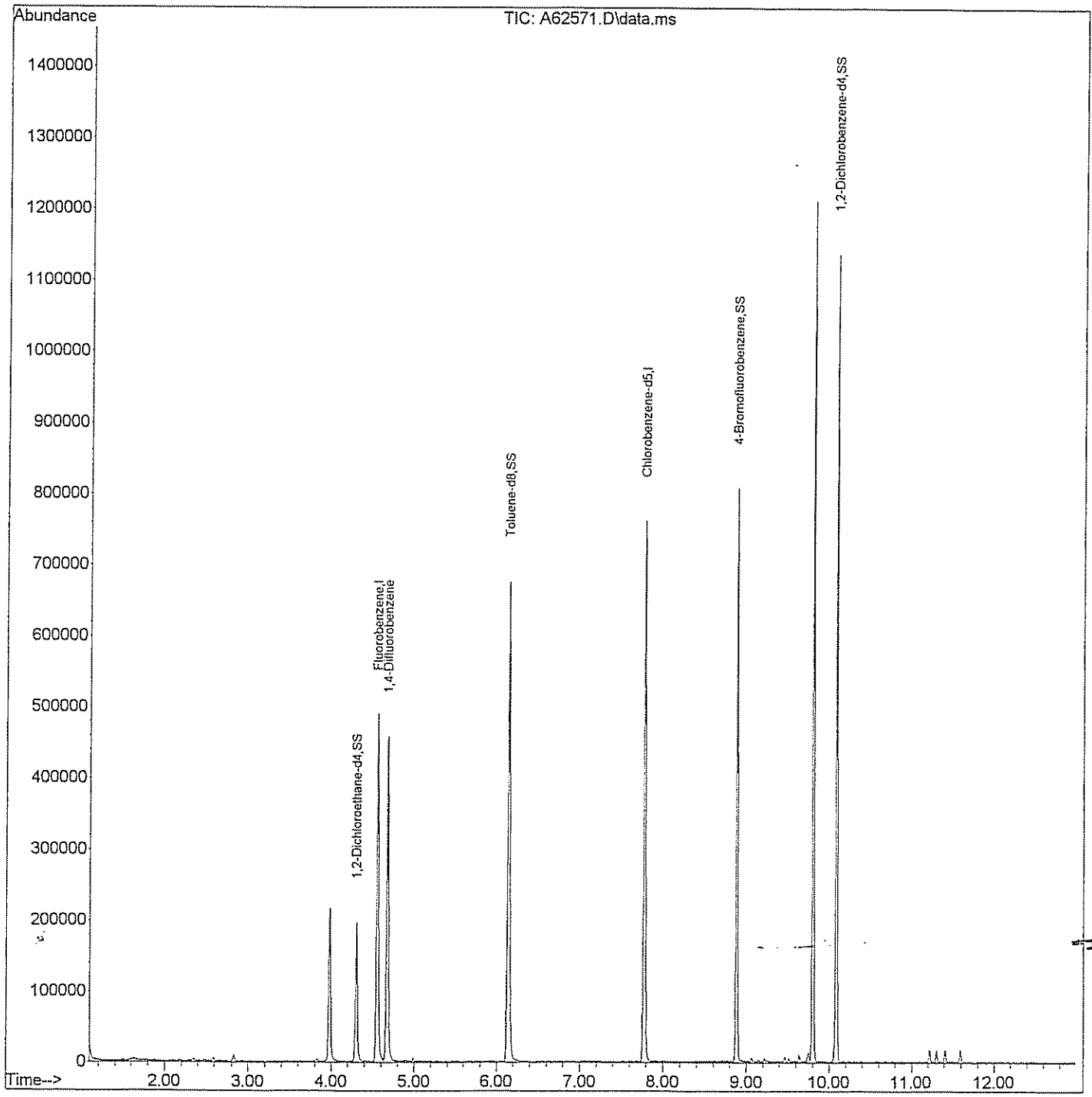
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	365167	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	334290	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	376962	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	97655	50.34	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 100.68%			
54) Toluene-d8	6.142	98	410331	52.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 105.94%			
76) 4-Bromofluorobenzene	8.881	95	162487	45.73	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 91.46%			
92) 1,2-Dichlorobenzene-d4	10.085	152	197270	56.61	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 113.22%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62571.D
Acq On : 26 Mar 2009 11:13
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 17:34:43 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108876
Sample Volume :	5	Lab File ID :	A62605.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108876
Sample Volume :	5	Lab File ID :	A62605.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108876
Sample Volume :	5	Lab File ID :	A62605.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62605.D
Acq On : 26 Mar 2009 23:16
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 30 12:12:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

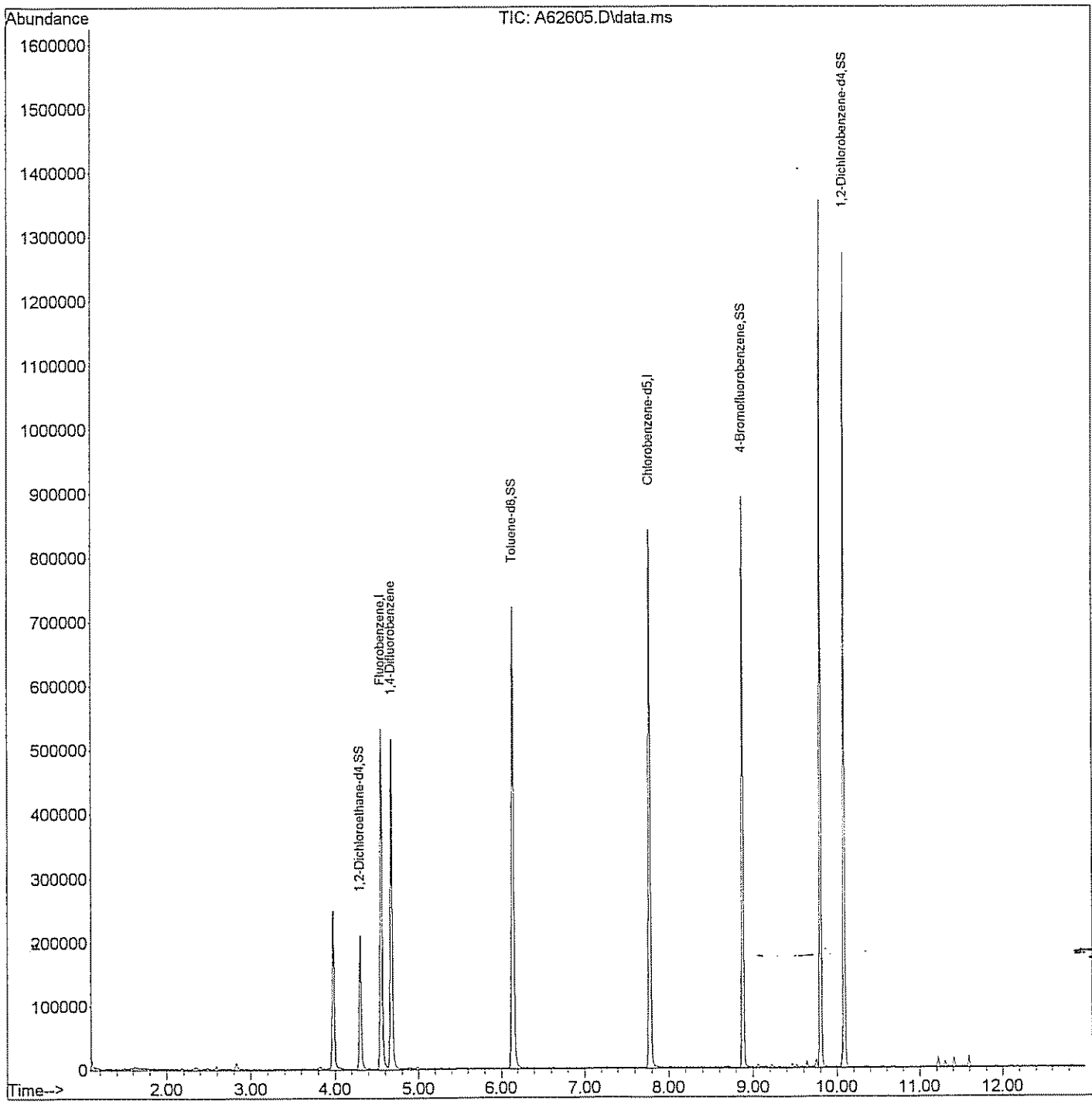
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	408844	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	376407	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	404746	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	112493	51.79	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.58%			
54) Toluene-d8	6.142	98	449237	51.51	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 103.02%			
76) 4-Bromofluorobenzene	8.881	95	181780	47.65	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.30%			
92) 1,2-Dichlorobenzene-d4	10.085	152	219234	58.59	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.18%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62605.D
Acq On : 26 Mar 2009 23:16
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 30 12:12:51 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108880
Sample Volume :	5	Lab File ID :	A62637.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108880
Sample Volume :	5	Lab File ID :	A62637.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108880
Sample Volume :	5	Lab File ID :	A62637.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62637.D
Acq On : 27 Mar 2009 11:26
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 14:15:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

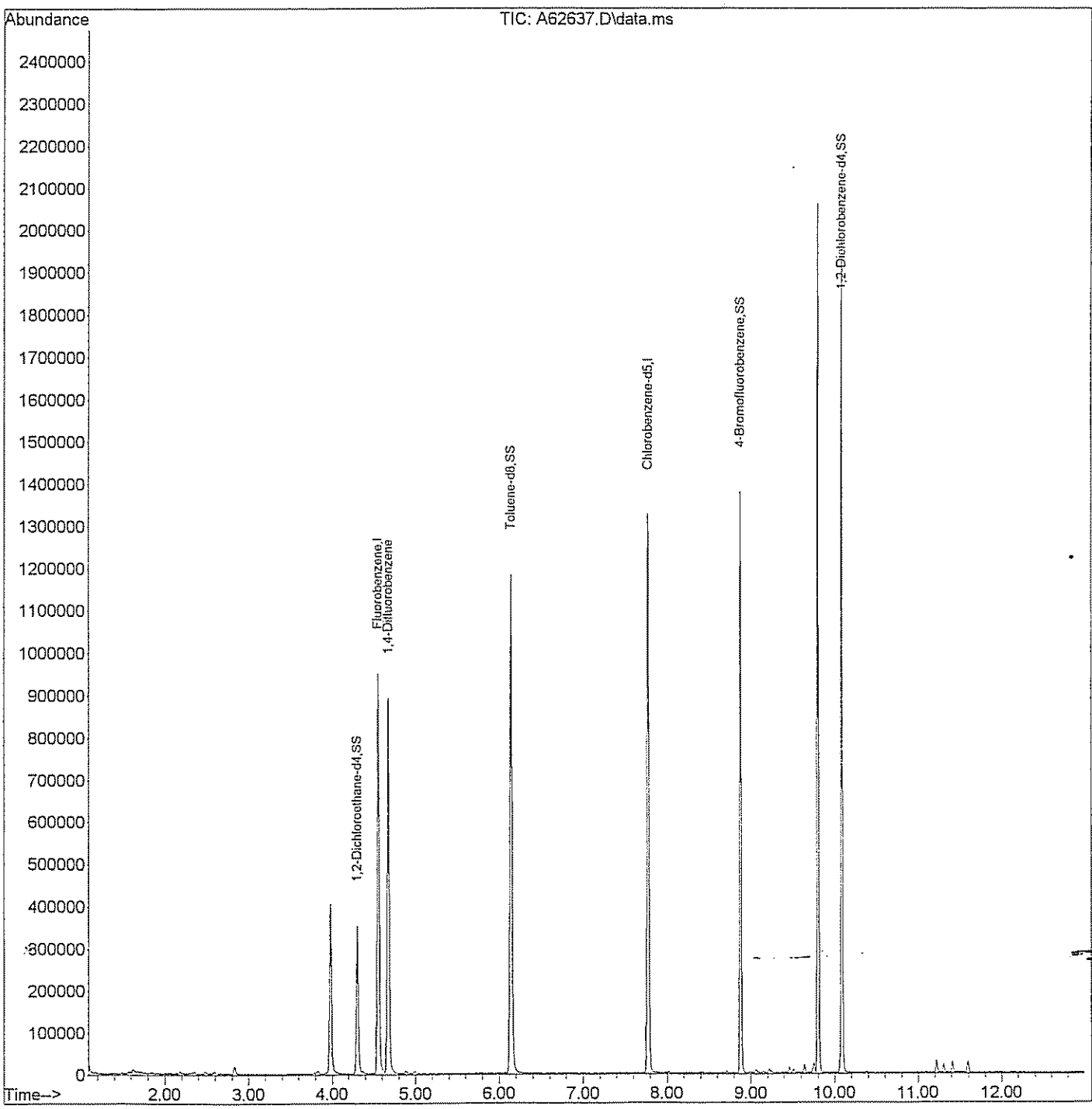
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.553	96	701752	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	4.676	114	639558	50.00	ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	620439	50.00	ug/L	0.00
System Monitoring Compounds						
40) 1,2-Dichloroethane-d4	4.302	65	186303	49.97	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.94%			
54) Toluene-d8	6.142	98	724255	48.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 97.74%			
76) 4-Bromofluorobenzene	8.881	95	283702	48.51	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.02%			
92) 1,2-Dichlorobenzene-d4	10.085	152	316202	55.13	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 110.26%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62637.D
Acq On : 27 Mar 2009 11:26
Operator : SM
Sample : BLK
Misc : BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 14:15:19 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MS
Sample Volume :	5	Lab File ID :	A62587.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	68	
79-34-5	1,1,2,2-Tetrachloroethane	52	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	62	
75-35-4	1,1-Dichloroethene	60	
120-82-1	1,2,4-Trichlorobenzene	67	
96-12-8	1,2-Dibromo-3-Chloropropane	47	
95-50-1	1,2-Dichlorobenzene	66	
107-06-2	1,2-Dichloroethane	56	
78-87-5	1,2-Dichloropropane	56	
541-73-1	1,3-Dichlorobenzene	69	
106-46-7	1,4-Dichlorobenzene	68	
78-93-3	2-Butanone	93	
591-78-6	2-Hexanone	94	
108-10-1	4-Methyl-2-Pentanone	95	
67-64-1	Acetone	88	
71-43-2	Benzene	53	
75-27-4	Bromodichloromethane	58	
75-25-2	Bromoform	62	
74-83-9	Bromomethane	150	
75-15-0	Carbon Disulfide	51	
56-23-5	Carbon Tetrachloride	78	
108-90-7	Chlorobenzene	220	E
75-00-3	Chloroethane	120	
67-66-3	Chloroform	60	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	61	
124-48-1	Dibromochloromethane	59	
75-71-8	Dichlorodifluoromethane	70	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MS
Sample Volume :	5	Lab File ID :	A62587.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	54	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	84	
98-82-8	Isopropylbenzene	59	
79-20-9	Methyl Acetate	54	
108-87-2	Methylcyclohexane	78	
75-09-2	Methylene Chloride	51	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	69	
108-88-3	Toluene	64	
1330-20-7	Total Xylenes	170	
79-01-6	Trichloroethene	53	
75-69-4	Trichlorofluoromethane	68	
75-01-4	Vinyl Chloride	50	
156-59-2	cis-1,2-Dichloroethene	58	
10061-01-5	cis-1,3-Dichloropropene	57	
1634-04-4	tert-butyl methyl ether	63	
156-60-5	trans-1,2-dichloroethene	62	
10061-02-6	trans-1,3-dichloropropene	60	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62587.D
Acq On : 26 Mar 2009 17:10
Operator : SM
Sample : 903192-001MS
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 18:05:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	387739	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	352553	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	414546	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	105533	51.23	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.46%				
54) Toluene-d8	6.142	98	444624	54.43	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 108.86%				
76) 4-Bromofluorobenzene	8.881	95	188241	48.17	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.34%				
92) 1,2-Dichlorobenzene-d4	10.085	152	225361	58.80	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 117.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	47877	69.69	ug/L		97
3) Chloromethane	1.327	50	62639	46.34	ug/L		98
4) Vinyl chloride	1.392	62	80251	50.02	ug/L		100
5) Bromomethane	1.616	94	171281	151.94	ug/L		89
6) Chloroethane	1.681	64	130733	116.06	ug/L		96
7) Trichlorofluoromethane	1.830	101	160467	68.37	ug/L		97
8) Ethyl Ether	2.044	59	72502	52.57	ug/L		95
9) Freon 113	2.178	101	102597	83.61	ug/L		92
10) Acrolein	2.189	56	65063	234.61	ug/L	#	74
11) Tert-Butyl alcohol	2.676	59	184495	1172.38	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	85122	60.44	ug/L		87
13) Iodomethane	2.328	142	80934	49.41	ug/L		94
14) Acetonitrile	2.478	40	730887	704.20	ug/L	#	1
15) Methylene chloride	2.590	84	93896	51.37	ug/L		98
16) Trans-1,2-dichloroethene	2.750	96	100085	61.88	ug/L		83
17) Isopropyl ether	3.093	45	339995	54.02	ug/L		98
18) 1,1-Dichloroethane	3.109	63	179242	61.83	ug/L		96
19) Acetone	2.296	43	58392	88.20	ug/L		92
20) Methyl Acetate	4.264	43	98993	53.50	ug/L	#	100
21) MTBE	2.740	73	264889	62.72	ug/L		100
22) Carbon disulfide	2.349	76	247768	50.61	ug/L		100
24) Acrylonitrile	2.831	53	135430	276.06	ug/L		99
25) Chloroprene	3.146	53	155495	56.15	ug/L		90
26) n-Heptane	4.553	71	2336	1.65	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	134886	55.61	ug/L	#	67
28) Cis-1,2-dichloroethene	3.574	96	113996	58.07	ug/L		98

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62587.D
Acq On : 26 Mar 2009 17:10
Operator : SM
Sample : 903192-001MS
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 18:05:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	3.574	96	224570m	108.08	ug/L		
30) Propionitrile	3.735	54	127613	526.80	ug/L		97
31) Bromochloromethane	3.783	128	65062	76.83	ug/L	#	63
32) Tetrahydrofuran	3.794	72	23195	58.32	ug/L	#	22
33) Chloroform	3.836	83	198882	60.17	ug/L		99
34) Cyclohexane	3.933	56	175987	61.14	ug/L		88
35) 1,1,1-Trichloroethane	3.954	97	167671	67.96	ug/L		100
36) Carbon tetrachloride	4.061	117	165669	78.44	ug/L		100
37) Methacrylonitrile	3.826	41	793102	601.68	ug/L	#	22
38) Methylcyclohexane	4.992	83	205673	78.40	ug/L		88
39) Isobutyl Alcohol	4.264	43	98993	861.12	ug/L		95
42) 2-Butanone	3.612	43	107470	93.45	ug/L		96
43) 1,1-Dichloropropene	4.099	75	137280	57.44	ug/L		95
44) Vinyl Acetate	3.136	43	98087	36.48	ug/L	#	93
45) Benzene	4.280	78	395889	53.05	ug/L		100
46) 1,2-Dichloroethane	4.371	62	131258	56.11	ug/L	#	87
47) Trichloroethene	4.880	95	102460	53.47	ug/L	#	68
48) 1,2-Dichloropropane	5.163	63	106932	55.93	ug/L		99
49) Methyl methacrylate	5.259	69	73946	53.41	ug/L		96
50) Dibromomethane	5.276	93	69628	59.20	ug/L		99
51) Bromodichloromethane	5.431	83	145797	58.41	ug/L	#	99
52) 2-Chloroethylvinyl ether	6.217	63	47270	62.09	ug/L	#	49
53) Cis-1,3-dichloropropene	5.912	75	172867	57.47	ug/L		95
55) Toluene	6.217	92	311350	63.66	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	164799	60.47	ug/L		95
57) Ethyl methacrylate	6.618	69	146201	59.74	ug/L		98
58) 1,1,2-Trichloroethane	6.773	83	90494	61.66	ug/L		93
60) 4-Methyl-2-pentanone	6.094	43	229083	94.76	ug/L		97
61) 2-Hexanone	7.062	43	163379	93.62	ug/L		93
62) Tetrachloroethene	6.795	166	164065	68.65	ug/L		98
63) 1,3-Dichloropropane	6.971	76	176987	51.32	ug/L		89
64) Dibromochloromethane	7.185	129	146450	58.65	ug/L		97
65) 1,2-Dibromoethane	7.314	107	109856	51.56	ug/L		98
66) 1-Chlorohexane	7.785	91	185839	51.84	ug/L		94
67) Chlorobenzene	7.811	112	1533270	218.15	ug/L	#	80
68) 1,1,1,2-Tetrachloroethane	7.908	131	163501	64.95	ug/L		94
69) Ethylbenzene	7.897	91	646049	53.69	ug/L		96
70) m,p-Xylene	8.020	106	557237	117.90	ug/L		81
71) o-Xylene	8.394	106	261879	54.68	ug/L		85
72) Xylene (Total)	8.020	106	820040m	168.90	ug/L		
73) Styrene	8.421	104	433465	54.47	ug/L		99
74) Bromoform	8.598	173	96875	62.56	ug/L		97

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62587.D
Acq On : 26 Mar 2009 17:10
Operator : SM
Sample : 903192-001MS
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 18:05:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

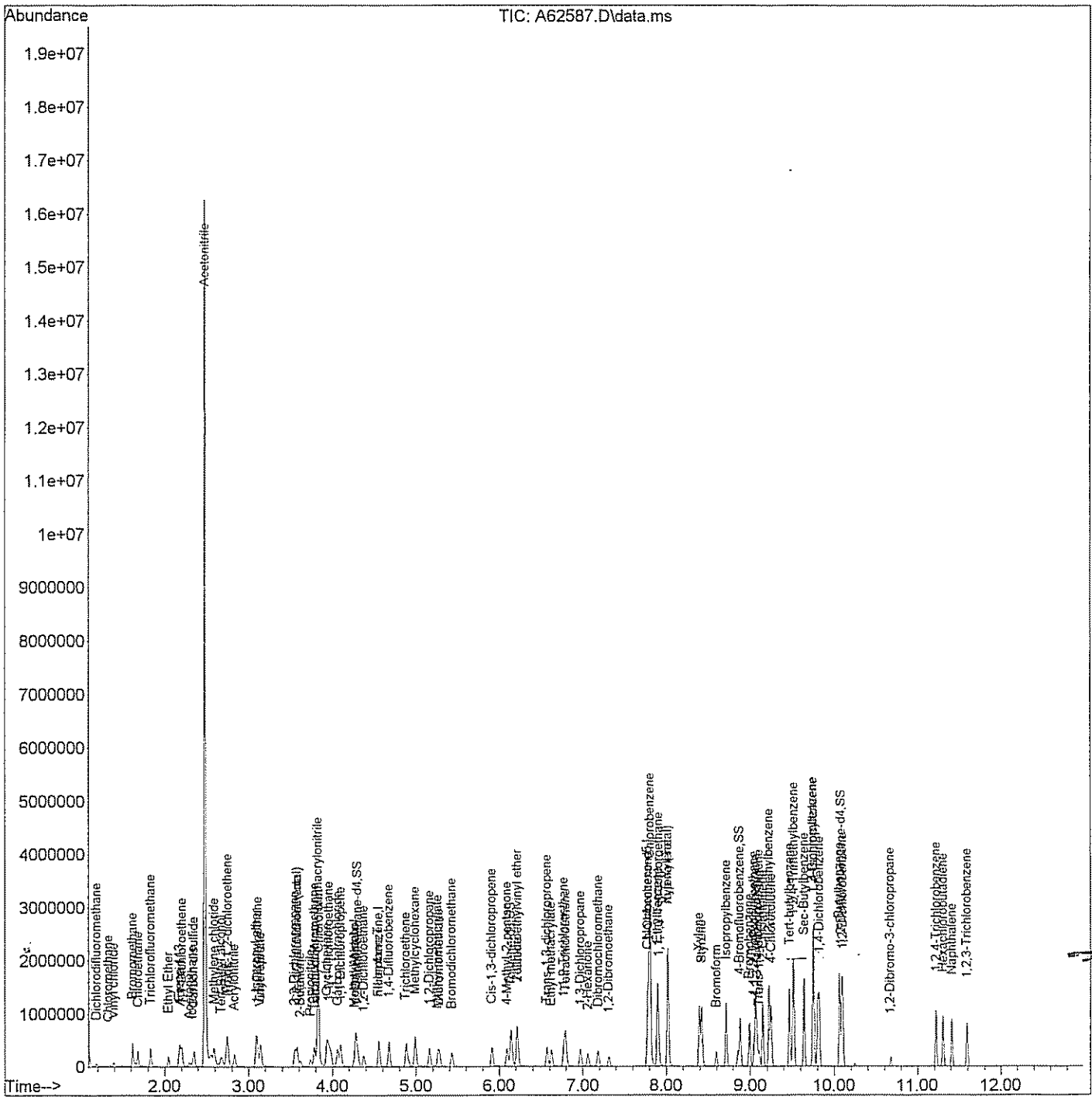
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.715	105	600378	58.96	ug/L		96
77) Bromobenzene	8.994	156	184353	66.12	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	141730	51.76	ug/L		98
79) 1,2,3-Trichloropropane	9.085	110	46559	57.24	ug/L		94
80) n-Propylbenzene	9.063	91	769138	54.57	ug/L		92
81) Trans-1,4-dichloro-2-b...	9.106	53	41850	61.68	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	184341	61.67	ug/L		85
83) 4-Chlorotoluene	9.250	126	191520	61.73	ug/L		71
84) 1,3,5-Trimethylbenzene	9.224	105	577538	57.72	ug/L		92
85) Tert-butylbenzene	9.470	119	550941	63.37	ug/L		94
87) 1,2,4-Trimethylbenzene	9.518	105	597584	57.49	ug/L		88
88) Sec-Butylbenzene	9.641	105	808321	60.66	ug/L		93
89) 1,3-Dichlorobenzene	9.748	146	406217	69.43	ug/L		97
90) 4-Isopropyltoluene	9.753	119	767839	67.77	ug/L		93
91) 1,4-Dichlorobenzene	9.823	146	399034	67.97	ug/L		98
93) 1,2-Dichlorobenzene	10.101	146	371210	66.43	ug/L		99
94) n-Butylbenzene	10.058	91	621656	55.59	ug/L	#	84
95) 1,2-Dibromo-3-chloropr...	10.673	75	21963	46.83	ug/L	#	36
96) 1,2,4-Trichlorobenzene	11.224	180	226592	66.82	ug/L		99
97) Hexachlorobutadiene	11.305	225	114927	72.78	ug/L		98
98) Naphthalene	11.412	128	542948	67.19	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	197544	69.59	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62587.D
Acq On : 26 Mar 2009 17:10
Operator : SM
Sample : 903192-001MS
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 18:05:14 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MSD
Sample Volume :	5	Lab File ID :	A62589.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
71-55-6	1,1,1-Trichloroethane	69	
79-34-5	1,1,2,2-Tetrachloroethane	54	
79-00-5	1,1,2-Trichloroethane	62	
75-34-3	1,1-Dichloroethane	64	
75-35-4	1,1-Dichloroethene	68	
120-82-1	1,2,4-Trichlorobenzene	72	
96-12-8	1,2-Dibromo-3-Chloropropane	54	
95-50-1	1,2-Dichlorobenzene	68	
107-06-2	1,2-Dichloroethane	55	
78-87-5	1,2-Dichloropropane	60	
541-73-1	1,3-Dichlorobenzene	70	
106-46-7	1,4-Dichlorobenzene	69	
78-93-3	2-Butanone	98	
591-78-6	2-Hexanone	96	
108-10-1	4-Methyl-2-Pentanone	99	
67-64-1	Acetone	93	
71-43-2	Benzene	54	
75-27-4	Bromodichloromethane	61	
75-25-2	Bromoform	64	
74-83-9	Bromomethane	100	
75-15-0	Carbon Disulfide	54	
56-23-5	Carbon Tetrachloride	80	
108-90-7	Chlorobenzene	250	E
75-00-3	Chloroethane	95	
67-66-3	Chloroform	62	
74-87-3	Chloromethane	52	
110-82-7	Cyclohexane	63	
124-48-1	Dibromochloromethane	59	
75-71-8	Dichlorodifluoromethane	79	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
IR06-GW16-L1-09AMSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903192
Case No. :		SDG NO :	903192
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903192-001-001-1/9MSD
Sample Volume :	5	Lab File ID :	A62589.D
Level :	Low	Date Received	03/26/2009
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
100-41-4	Ethylbenzene	53	
106-93-4	Ethylene DiBromide	53	
76-13-1	Freon 113	92	
98-82-8	Isopropylbenzene	60	
79-20-9	Methyl Acetate	56	
108-87-2	Methylcyclohexane	82	
75-09-2	Methylene Chloride	59	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	68	
108-88-3	Toluene	64	
1330-20-7	Total Xylenes	170	
79-01-6	Trichloroethene	57	
75-69-4	Trichlorofluoromethane	110	
75-01-4	Vinyl Chloride	49	
156-59-2	cis-1,2-Dichloroethene	60	
10061-01-5	cis-1,3-Dichloropropene	58	
1634-04-4	tert-butyl methyl ether	67	
156-60-5	trans-1,2-dichloroethene	69	
10061-02-6	trans-1,3-dichloropropene	61	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62589.D
Acq On : 26 Mar 2009 17:51
Operator : SM
Sample : 903192-001MSD
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 18:06:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	385442	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	353248	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	422204	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	110396	53.91	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 107.82%				
54) Toluene-d8	6.142	98	453601	55.42	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 110.84%				
76) 4-Bromofluorobenzene	8.881	95	193018	48.50	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.00%				
92) 1,2-Dichlorobenzene-d4	10.085	152	240349	61.58	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 123.16%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	53726	78.67	ug/L		94
3) Chloromethane	1.322	50	70263	52.29	ug/L		95
4) Vinyl chloride	1.392	62	78172	49.01	ug/L		96
5) Bromomethane	1.616	94	91444	103.07	ug/L		85
6) Chloroethane	1.686	64	106505	95.12	ug/L		100
7) Trichlorofluoromethane	1.830	101	260542	110.80	ug/L		97
8) Ethyl Ether	2.039	59	86813	63.32	ug/L		94
9) Freon 113	2.173	101	112216	92.00	ug/L		90
10) Acrolein	2.184	56	67314	244.18	ug/L	#	74
11) Tert-Butyl alcohol	2.665	59	185809	1187.77	ug/L	#	47
12) 1,1-Dichloroethene	2.200	96	95940	68.53	ug/L		84
13) Iodomethane	2.328	142	99655	61.20	ug/L		99
14) Acetonitrile	2.478	40	789154	762.03	ug/L	#	1
15) Methylene chloride	2.590	84	106995	58.65	ug/L		95
16) Trans-1,2-dichloroethene	2.751	96	111067	69.08	ug/L		80
17) Isopropyl ether	3.088	45	352815	56.39	ug/L		96
18) 1,1-Dichloroethane	3.104	63	185435	64.35	ug/L		96
19) Acetone	2.296	43	61381	93.21	ug/L		92
20) Methyl Acetate	4.265	43	101199	55.56	ug/L	#	100
21) MTBE	2.735	73	282867	67.38	ug/L		100
22) Carbon disulfide	2.349	76	265415	54.48	ug/L		100
24) Acrylonitrile	2.831	53	140611	288.33	ug/L		100
25) Chloroprene	3.141	53	153157	55.64	ug/L		87
26) n-Heptane	4.553	71	3384	2.40	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	147340	61.11	ug/L	#	65
28) Cis-1,2-dichloroethene	3.574	96	117399	60.16	ug/L		99

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62589.D
Acq On : 26 Mar 2009 17:51
Operator : SM
Sample : 903192-001MSD
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 18:06:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	232973m	112.79	ug/L		
30) Propionitrile	3.730	54	135727	563.64	ug/L		98
31) Bromochloromethane	3.778	128	63989	76.01	ug/L	#	68
32) Tetrahydrofuran	3.788	72	23347	59.06	ug/L	#	1
33) Chloroform	3.831	83	205397	62.51	ug/L		98
34) Cyclohexane	3.933	56	180990	63.27	ug/L	#	87
35) 1,1,1-Trichloroethane	3.954	97	168412	68.67	ug/L		97
36) Carbon tetrachloride	4.061	117	168292	80.15	ug/L		100
37) Methacrylonitrile	3.826	41	829281	632.87	ug/L	#	23
38) Methylcyclohexane	4.992	83	213003	81.68	ug/L		88
39) Isobutyl Alcohol	4.265	43	101199	885.55	ug/L		92
42) 2-Butanone	3.607	43	113109	98.16	ug/L	#	91
43) 1,1-Dichloropropene	4.099	75	137937	57.60	ug/L		98
44) Vinyl Acetate	3.130	43	86508	32.11	ug/L	#	92
45) Benzene	4.281	78	405401	54.22	ug/L		100
46) 1,2-Dichloroethane	4.372	62	129853m	55.40	ug/L		
47) Trichloroethene	4.885	95	109045	56.79	ug/L	#	73
48) 1,2-Dichloropropane	5.158	63	114725	59.88	ug/L		99
49) Methyl methacrylate	5.260	69	77238	55.67	ug/L		98
50) Dibromomethane	5.276	93	74563	63.27	ug/L		100
51) Bromodichloromethane	5.431	83	152518	60.98	ug/L	#	99
52) 2-Chloroethylvinyl ether	6.212	63	49304	64.64	ug/L	#	49
53) Cis-1,3-dichloropropene	5.912	75	173777	57.66	ug/L		94
55) Toluene	6.217	92	316077	64.50	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	167489	61.34	ug/L		97
57) Ethyl methacrylate	6.624	69	147068	59.98	ug/L		97
58) 1,1,2-Trichloroethane	6.774	83	91416	62.17	ug/L		89
60) 4-Methyl-2-pentanone	6.094	43	244637	99.36	ug/L		97
61) 2-Hexanone	7.062	43	171149	96.30	ug/L		96
62) Tetrachloroethene	6.790	166	166493	68.41	ug/L		99
63) 1,3-Dichloropropane	6.971	76	177676	50.58	ug/L		90
64) Dibromochloromethane	7.180	129	149847	58.92	ug/L		96
65) 1,2-Dibromoethane	7.314	107	115170	53.07	ug/L		99
66) 1-Chlorohexane	7.785	91	192528	52.73	ug/L		92
67) Chlorobenzene	7.811	112	1766895	246.83	ug/L	#	80
68) 1,1,1,2-Tetrachloroethane	7.908	131	161407	62.95	ug/L		98
69) Ethylbenzene	7.897	91	650954	53.12	ug/L		95
70) m,p-Xylene	8.020	106	561366	116.62	ug/L		84
71) o-Xylene	8.395	106	267176	54.78	ug/L		87
72) Xylene (Total)	8.020	106	832867m	168.43	ug/L		
73) Styrene	8.421	104	440340	54.33	ug/L		100
74) Bromoform	8.598	173	100885	63.97	ug/L		98

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62589.D
Acq On : 26 Mar 2009 17:51
Operator : SM
Sample : 903192-001MSD
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

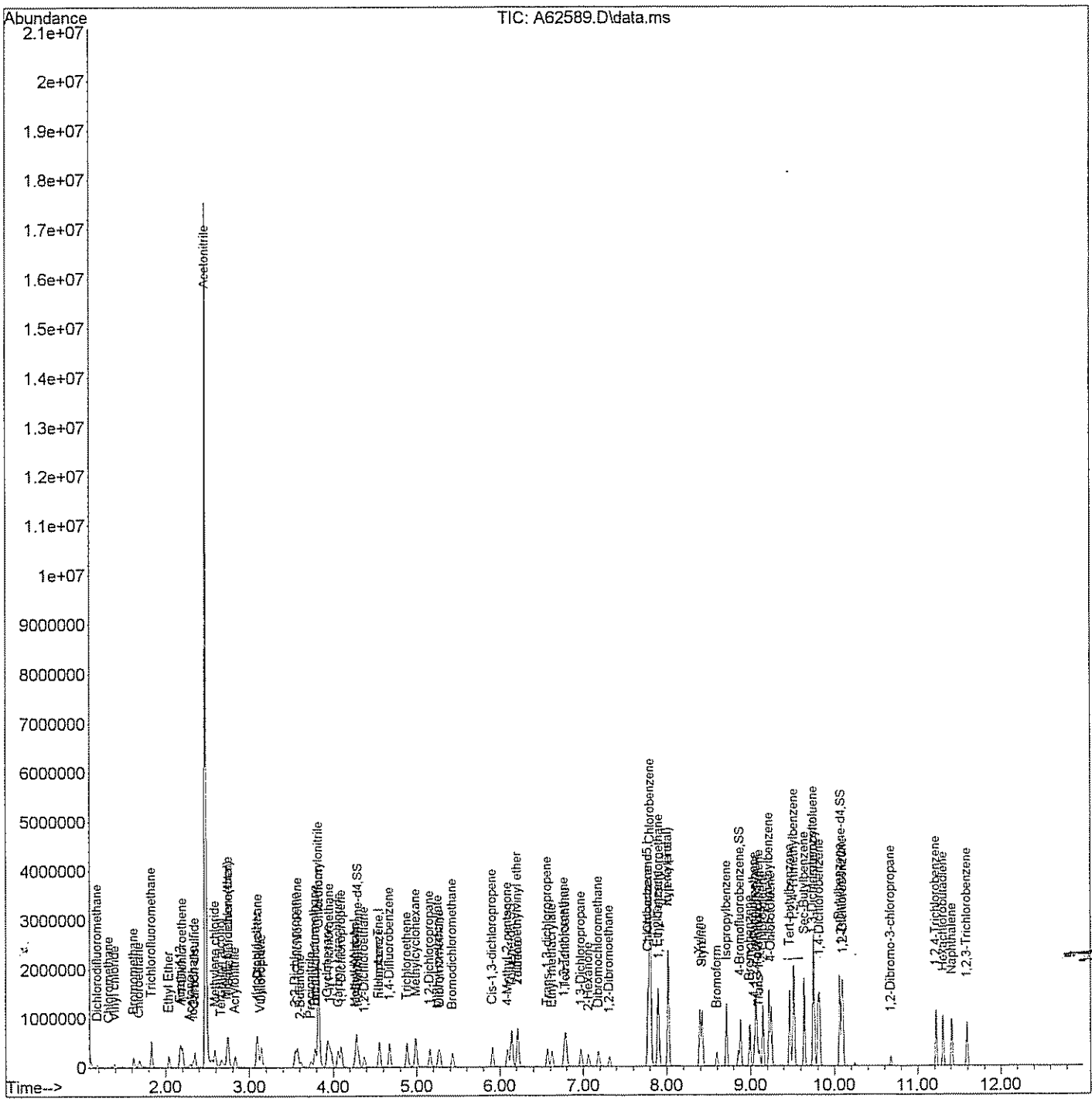
Quant Time: Mar 27 18:06:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	622540	60.02	ug/L		96
77) Bromobenzene	8.994	156	186666	65.74	ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.047	83	149492	53.60	ug/L		99
79) 1,2,3-Trichloropropane	9.085	110	47107	56.86	ug/L		98
80) n-Propylbenzene	9.063	91	788302	54.91	ug/L		92
81) Trans-1,4-dichloro-2-b...	9.106	53	42177	61.04	ug/L	#	23
82) 2-Chlorotoluene	9.149	126	194782	63.98	ug/L	#	83
83) 4-Chlorotoluene	9.245	126	201174	63.66	ug/L		70
84) 1,3,5-Trimethylbenzene	9.224	105	597825	58.67	ug/L		93
85) Tert-butylbenzene	9.470	119	584149	65.97	ug/L		93
87) 1,2,4-Trimethylbenzene	9.518	105	626011	59.13	ug/L		89
88) Sec-Butylbenzene	9.641	105	853522	62.89	ug/L		92
89) 1,3-Dichlorobenzene	9.743	146	419765	70.45	ug/L		99
90) 4-Isopropyltoluene	9.753	119	817657	70.85	ug/L		94
91) 1,4-Dichlorobenzene	9.823	146	411784	68.87	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	385661	67.76	ug/L		99
94) n-Butylbenzene	10.058	91	660705	58.01	ug/L	#	85
95) 1,2-Dibromo-3-chloropr...	10.679	75	25869	54.16	ug/L	#	50
96) 1,2,4-Trichlorobenzene	11.219	180	246963	71.51	ug/L		98
97) Hexachlorobutadiene	11.305	225	124923	77.67	ug/L		96
98) Naphthalene	11.412	128	594467	72.23	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	209005	72.29	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62589.D
Acq On : 26 Mar 2009 17:51
Operator : SM
Sample : 903192-001MSD
Misc : IR06-GW 16-L1-09A,CH2M HILL,WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 18:06:00 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108871
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	53	
71-55-6	1,1,1-Trichloroethane	55	
79-34-5	1,1,2,2-Tetrachloroethane	42	
79-00-5	1,1,2-Trichloroethane	45	
75-34-3	1,1-Dichloroethane	52	
75-35-4	1,1-Dichloroethene	50	
563-58-6	1,1-Dichloropropene	41	
87-61-6	1,2,3-Trichlorobenzene	56	
96-18-4	1,2,3-Trichloropropane	45	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	49	
96-12-8	1,2-Dibromo-3-Chloropropane	36	
95-50-1	1,2-Dichlorobenzene	55	
107-06-2	1,2-Dichloroethane	41	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	48	
541-73-1	1,3-Dichlorobenzene	57	
142-28-9	1,3-Dichloropropane	43	
106-46-7	1,4-Dichlorobenzene	56	
594-20-7	2,2-Dichloropropane	48	
78-93-3	2-Butanone	65	
95-49-8	2-Chlorotoluene	53	
591-78-6	2-Hexanone	70	
106-43-4	4-Chlorotoluene	53	
99-87-6	4-Isopropyltoluene	56	
108-10-1	4-Methyl-2-Pentanone	76	
67-64-1	Acetone	73	
71-43-2	Benzene	39	
108-86-1	Bromobenzene	55	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108871
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	63	
75-27-4	Bromodichloromethane	45	
75-25-2	Bromoform	51	
74-83-9	Bromomethane	130	
75-15-0	Carbon Disulfide	44	
56-23-5	Carbon Tetrachloride	58	
108-90-7	Chlorobenzene	48	
75-00-3	Chloroethane	47	
67-66-3	Chloroform	50	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	46	
124-48-1	Dibromochloromethane	48	
74-95-3	Dibromomethane	47	
75-71-8	Dichlorodifluoromethane	46	
100-41-4	Ethylbenzene	44	
106-93-4	Ethylene DiBromide	42	
76-13-1	Freon 113	62	
87-68-3	Hexachlorobutadiene	57	
98-82-8	Isopropylbenzene	48	
79-20-9	Methyl Acetate	34	
108-87-2	Methylcyclohexane	58	
75-09-2	Methylene Chloride	44	
91-20-3	Naphthalene	50	
135-98-8	Sec-Butylbenzene	49	
100-42-5	Styrene	46	
127-18-4	Tetrachloroethylene	56	
108-88-3	Toluene	48	
79-01-6	Trichloroethene	44	
75-69-4	Trichlorofluoromethane	50	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108871

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108871
Sample Volume :	5	Lab File ID :	A62569.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	27	
75-01-4	Vinyl Chloride	42	
156-59-2	cis-1,2-Dichloroethene	46	
10061-01-5	cis-1,3-Dichloropropene	45	
136777-61-2	m,p-Xylene	97	
104-51-8	n-Butylbenzene	46	
103-65-1	n-Propylbenzene	46	
95-47-6	o-Xylene	47	
98-06-6	tert-Butylbenzene	52	
1634-04-4	tert-butyl methyl ether	52	
156-60-5	trans-1,2-dichloroethene	50	
10061-02-6	trans-1,3-dichloropropene	44	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 17:33:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.559	96	430569	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	439401	50.00	ug/L		0.00
59) Chlorobenzene-d5	7.779	117	456605	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	118918	51.99	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.98%				
54) Toluene-d8	6.142	98	505240	49.62	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 99.24%				
76) 4-Bromofluorobenzene	8.881	95	213084	49.51	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 99.02%				
92) 1,2-Dichlorobenzene-d4	10.085	152	255357	60.49	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 120.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.188	85	34930	45.79	ug/L		99
3) Chloromethane	1.333	50	65041	43.33	ug/L		98
4) Vinyl chloride	1.397	62	75075	42.14	ug/L		98
5) Bromomethane	1.616	94	143180	127.66	ug/L		92
6) Chloroethane	1.686	64	58634	46.88	ug/L		92
7) Trichlorofluoromethane	1.836	101	128946	49.85	ug/L		98
8) Ethyl Ether	2.044	59	68783	44.91	ug/L		93
9) Freon 113	2.178	101	84334	61.89	ug/L		92
10) Acrolein	2.189	56	60974	198.00	ug/L	#	74
11) Tert-Butyl alcohol	2.670	59	147511	844.12	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	78034	49.90	ug/L		85
13) Iodomethane	2.333	142	151176	83.11	ug/L		97
14) Acetonitrile	2.483	40	633478	556.88	ug/L	#	1
15) Methylene chloride	2.590	84	89385	44.28	ug/L		91
16) Trans-1,2-dichloroethene	2.756	96	90710	50.50	ug/L		82
17) Isopropyl ether	3.093	45	322269	46.11	ug/L		96
18) 1,1-Dichloroethane	3.109	63	167902	52.16	ug/L		98
19) Acetone	2.296	43	53834	73.40	ug/L		94
20) Methyl Acetate	4.265	43	76389	34.52	ug/L	#	100
21) MTBE	2.740	73	245990	52.45	ug/L		100
22) Carbon disulfide	2.355	76	239730	44.19	ug/L		100
24) Acrylonitrile	2.831	53	115626	212.25	ug/L		98
25) Chloroprene	3.146	53	141107	45.89	ug/L		93
26) n-Heptane	4.553	71	2827	1.80	ug/L	#	1
27) 2,2-Dichloropropane	3.553	77	129592	48.12	ug/L	#	77
28) Cis-1,2-dichloroethene	3.580	96	101521	46.57	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 17:33:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.756	96	197153m	85.44 ug/L		
30) Propionitrile	3.735	54	110111	409.34 ug/L		98
31) Bromochloromethane	3.783	128	59339	63.10 ug/L	#	63
32) Tetrahydrofuran	3.788	72	18482	41.85 ug/L	#	22
33) Chloroform	3.837	83	181818	49.53 ug/L		98
34) Cyclohexane	3.938	56	146066	45.53 ug/L		87
35) 1,1,1-Trichloroethane	3.960	97	149652	54.62 ug/L		98
36) Carbon tetrachloride	4.061	117	136711	58.29 ug/L		97
37) Methacrylonitrile	3.826	41	660394	451.16 ug/L	#	24
38) Methylcyclohexane	4.992	83	167562	57.52 ug/L		88
39) Isobutyl Alcohol	4.265	43	76389	598.39 ug/L		94
42) 2-Butanone	3.617	43	93505	65.24 ug/L		97
43) 1,1-Dichloropropene	4.099	75	123522	41.47 ug/L		100
44) Vinyl Acetate	3.136	43	90183	26.91 ug/L		96
45) Benzene	4.281	78	360982	38.81 ug/L		100
46) 1,2-Dichloroethane	4.377	62	118391	40.61 ug/L		90
47) Trichloroethene	4.885	95	106436	44.57 ug/L	#	74
48) 1,2-Dichloropropane	5.158	63	107165	44.97 ug/L		98
49) Methyl methacrylate	5.265	69	67055	38.86 ug/L		96
50) Dibromomethane	5.281	93	68369	46.64 ug/L		99
51) Bromodichloromethane	5.431	83	140914	45.30 ug/L	#	99
52) 2-Chloroethylvinyl ether	5.779	63	69887	73.66 ug/L		93
53) Cis-1,3-dichloropropene	5.912	75	167476	44.67 ug/L		96
55) Toluene	6.217	92	289609	47.51 ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	150527	44.32 ug/L		98
57) Ethyl methacrylate	6.624	69	131013	42.96 ug/L		99
58) 1,1,2-Trichloroethane	6.774	83	82824	45.28 ug/L		91
60) 4-Methyl-2-pentanone	6.094	43	201252	75.58 ug/L		97
61) 2-Hexanone	7.062	43	134742	70.10 ug/L		97
62) Tetrachloroethene	6.795	166	146723	55.74 ug/L		96
63) 1,3-Dichloropropane	6.971	76	162074	42.66 ug/L		90
64) Dibromochloromethane	7.185	129	132988	48.35 ug/L		97
65) 1,2-Dibromoethane	7.314	107	98534	41.99 ug/L		96
66) 1-Chlorohexane	7.790	91	162772	41.23 ug/L		90
67) Chlorobenzene	7.806	112	371150	47.94 ug/L		84
68) 1,1,1,2-Tetrachloroethane	7.908	131	147606	53.23 ug/L		95
69) Ethylbenzene	7.897	91	585935	44.21 ug/L		97
70) m,p-Xylene	8.020	106	507448	97.48 ug/L		82
71) o-Xylene	8.395	106	247016	46.83 ug/L		85
72) Xylene (Total)	8.020	106	755699m	141.31 ug/L		
73) Styrene	8.421	104	405024	46.20 ug/L		97
74) Bromoform	8.598	173	86539	50.74 ug/L		99

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 17:33:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration

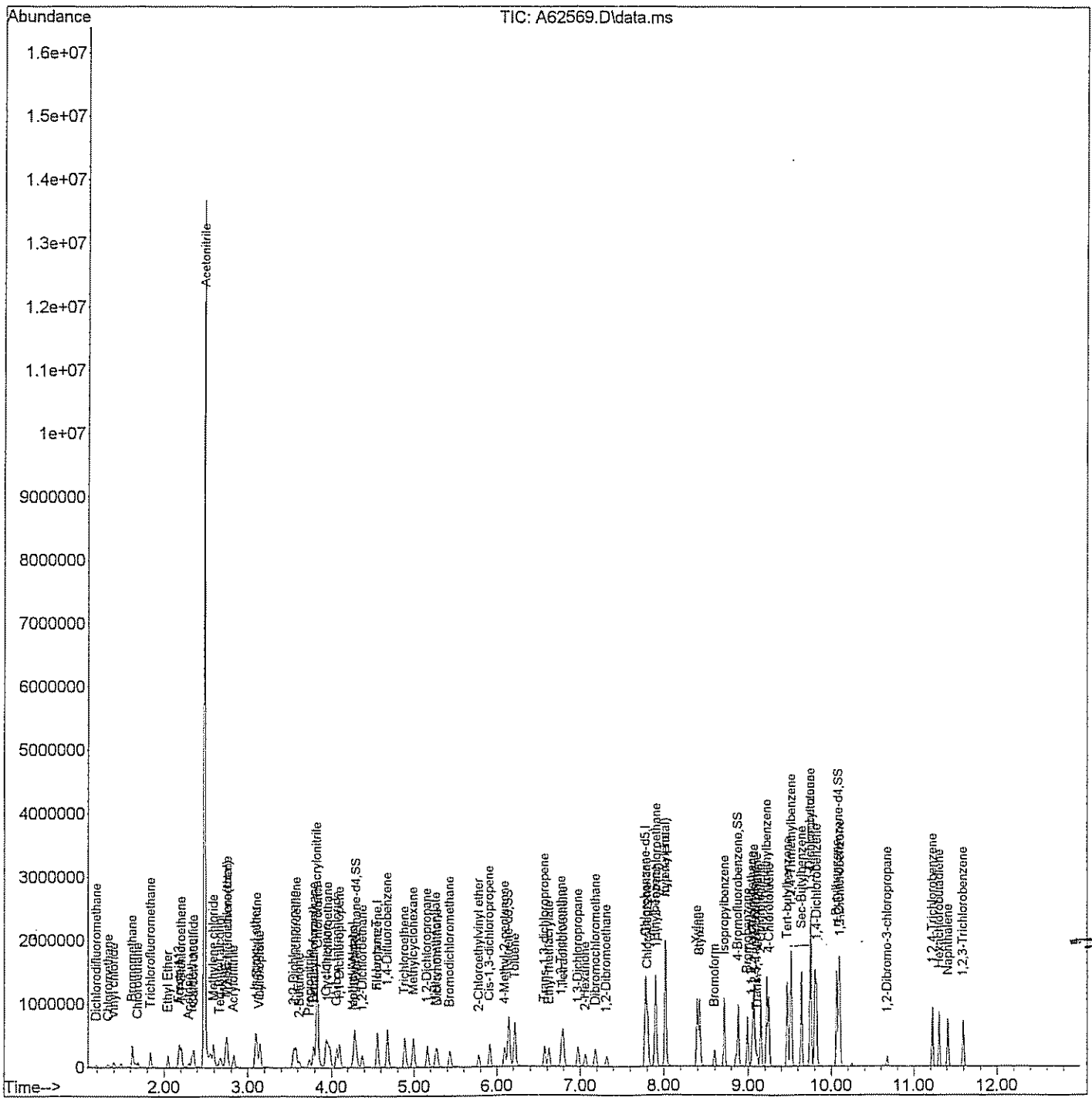
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	535340	47.73	ug/L		96
77) Bromobenzene	8.994	156	170164	55.41	ug/L		98
78) 1,1,2,2-Tetrachloroethane	9.047	83	125483	41.60	ug/L		100
79) 1,2,3-Trichloropropane	9.085	110	40025	44.68	ug/L		95
80) n-Propylbenzene	9.069	91	715436	46.08	ug/L		93
81) Trans-1,4-dichloro-2-b...	9.106	53	25745	34.19	ug/L	#	26
82) 2-Chlorotoluene	9.149	126	174862	53.11	ug/L	#	83
83) 4-Chlorotoluene	9.250	126	182554	53.42	ug/L		69
84) 1,3,5-Trimethylbenzene	9.224	105	531967	48.27	ug/L		90
85) Tert-butylbenzene	9.470	119	496334	51.83	ug/L		93
87) 1,2,4-Trimethylbenzene	9.518	105	565883	49.43	ug/L		89
88) Sec-Butylbenzene	9.641	105	720389	49.08	ug/L		92
89) 1,3-Dichlorobenzene	9.748	146	369493	57.34	ug/L		99
90) 4-Isopropyltoluene	9.753	119	695486	55.73	ug/L		95
91) 1,4-Dichlorobenzene	9.823	146	365139	56.47	ug/L		99
93) 1,2-Dichlorobenzene	10.101	146	337864	54.89	ug/L		97
94) n-Butylbenzene	10.058	91	564006	45.79	ug/L	#	86
95) 1,2-Dibromo-3-chloropr...	10.679	75	18465	35.75	ug/L	#	47
96) 1,2,4-Trichlorobenzene	11.225	180	210795	56.44	ug/L		98
97) Hexachlorobutadiene	11.305	225	98666	56.72	ug/L		95
98) Naphthalene	11.412	128	440569	49.50	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	175388	56.09	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

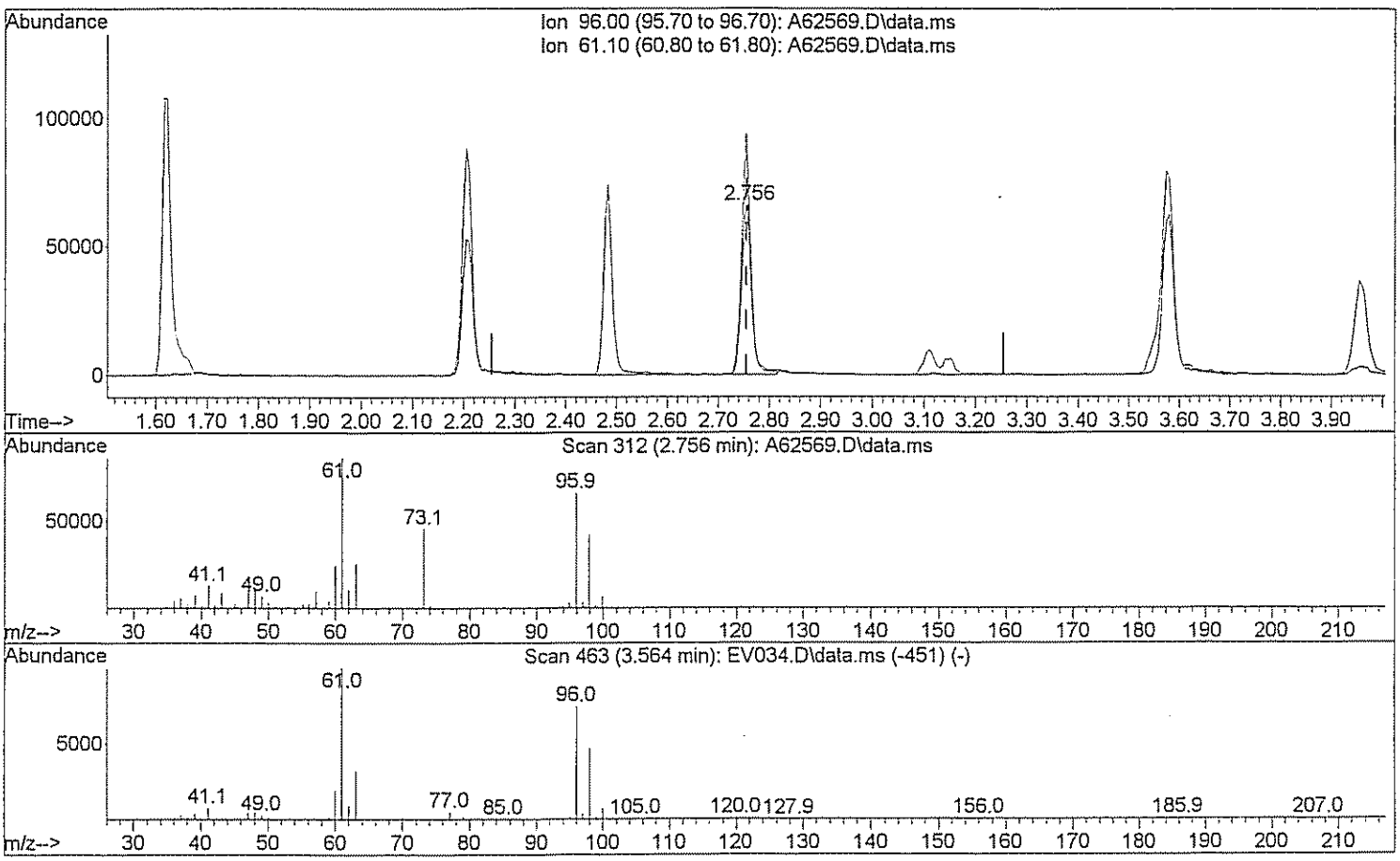
Quant Time: Mar 27 17:33:30 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 08:29:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62569.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 39.31 ug/L

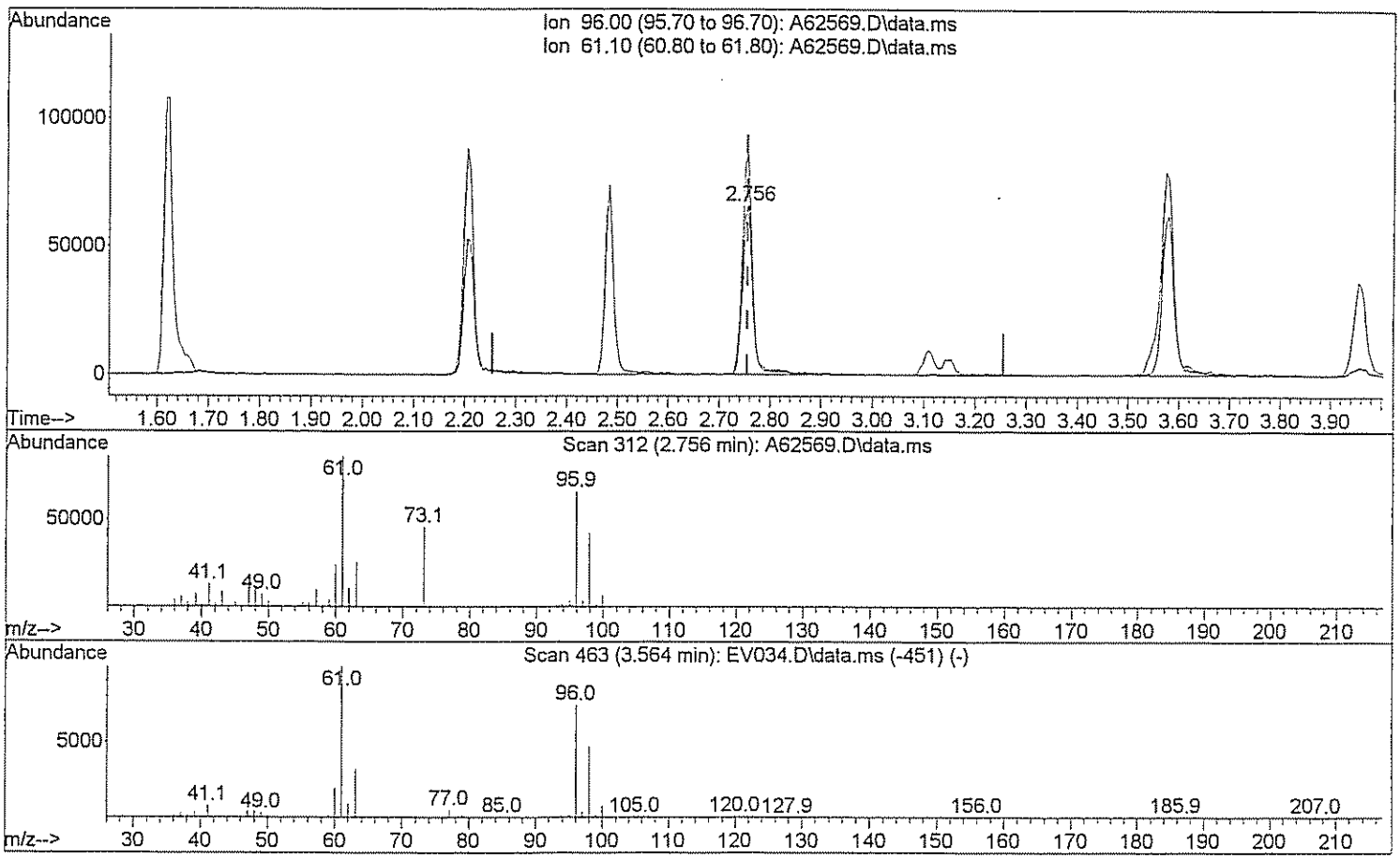
response 90710

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	131.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 08:29:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62569.D\data.ms

(29) 1,2-dichloroethene(total)

2.756min (+0.000) 85.44 ug/L m Jm 3/27/09

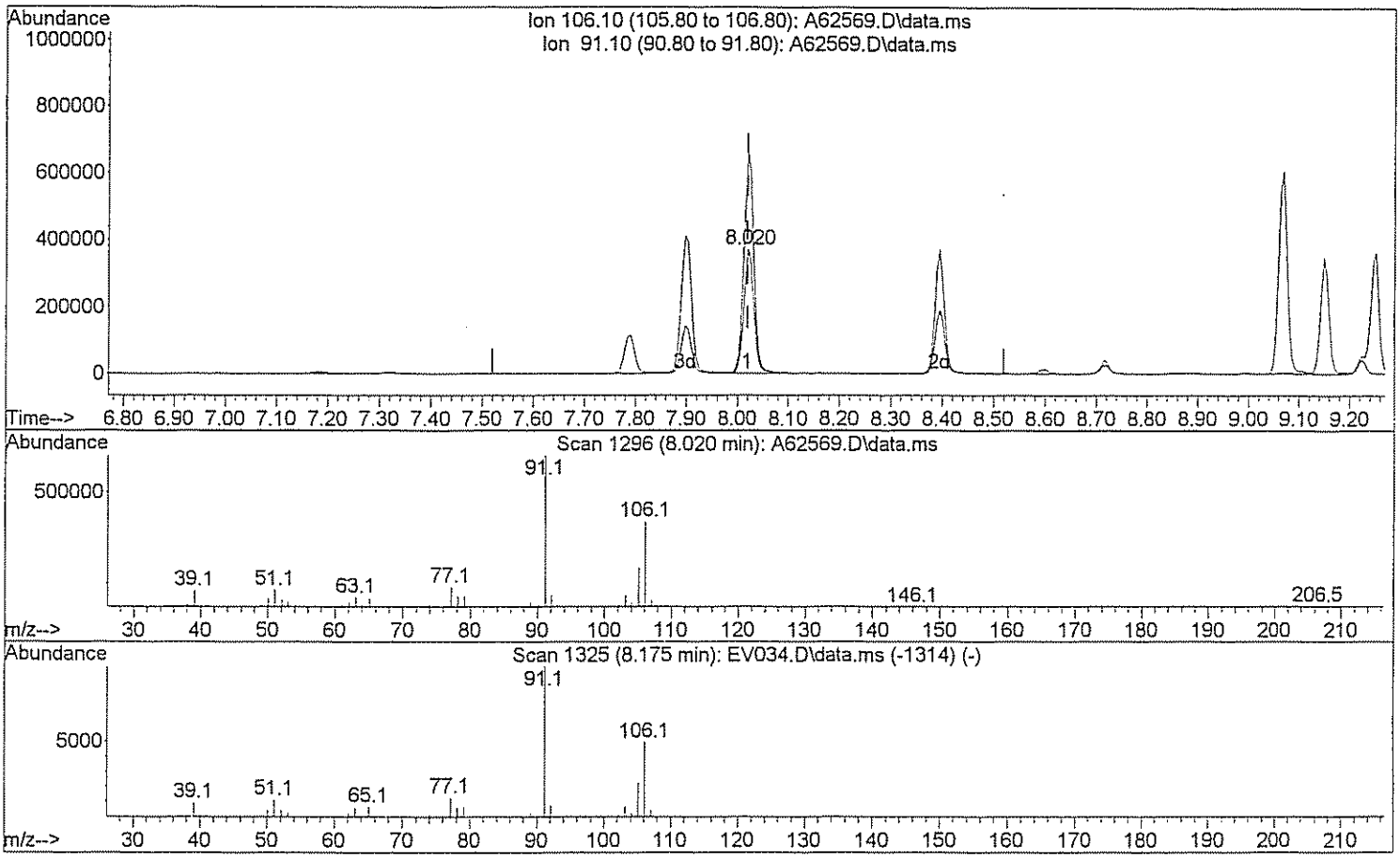
response 197153

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	60.35#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 08:29:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62569.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 94.89 ug/L

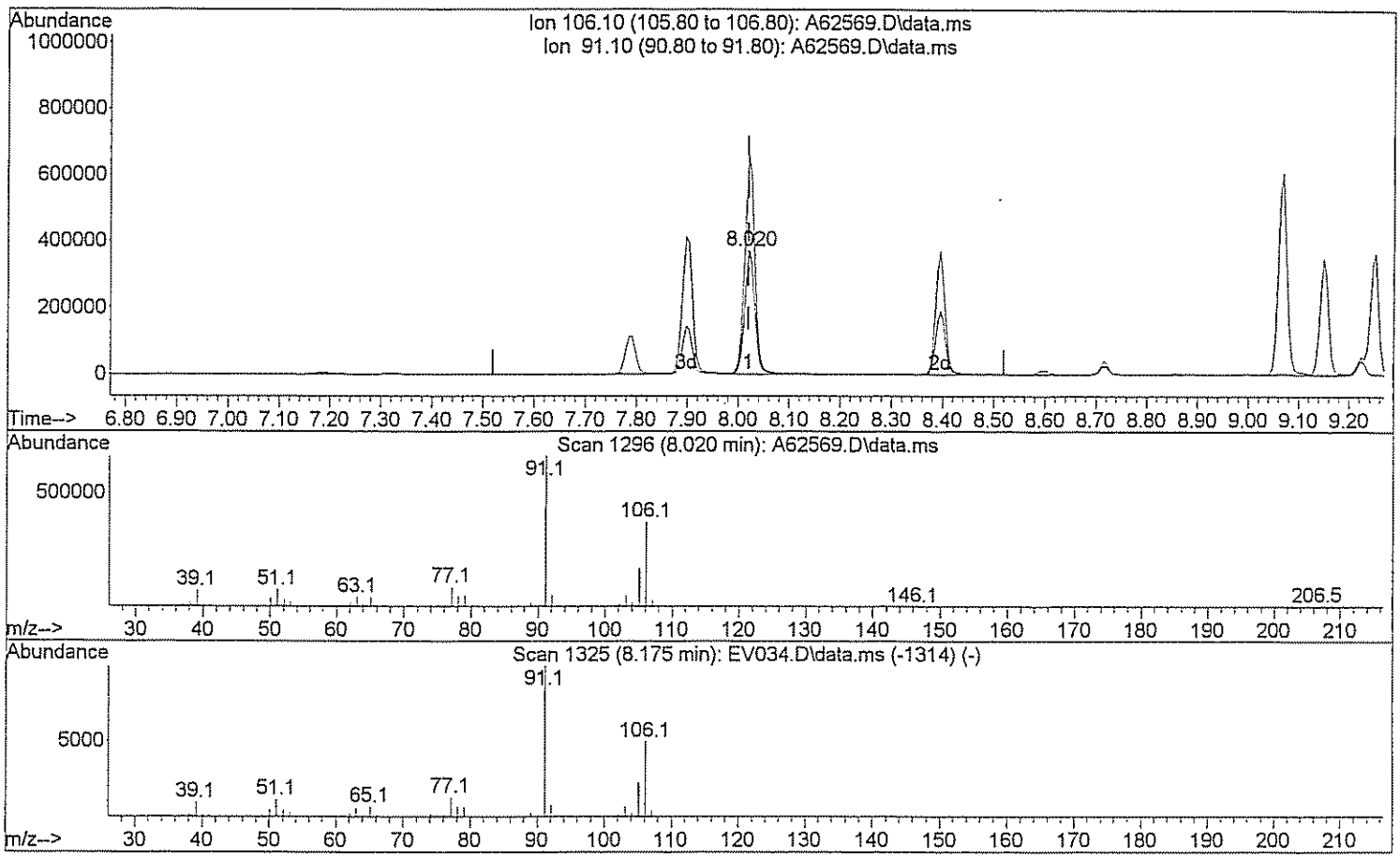
response 507448

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	180.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609C1\
Data File : A62569.D
Acq On : 26 Mar 2009 10:32
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 08:29:10 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Thu Mar 19 01:45:09 2009
Response via : Initial Calibration



TIC: A62569.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 141.31 ug/L m DW 3/27/09

response 755699

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	121.07#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108876
Sample Volume :	5	Lab File ID :	A62603.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	57	
71-55-6	1,1,1-Trichloroethane	58	
79-34-5	1,1,2,2-Tetrachloroethane	46	
79-00-5	1,1,2-Trichloroethane	53	
75-34-3	1,1-Dichloroethane	55	
75-35-4	1,1-Dichloroethene	56	
563-58-6	1,1-Dichloropropene	48	
87-61-6	1,2,3-Trichlorobenzene	64	
96-18-4	1,2,3-Trichloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	61	
95-63-6	1,2,4-Trimethylbenzene	49	
96-12-8	1,2-Dibromo-3-Chloropropane	48	
95-50-1	1,2-Dichlorobenzene	57	
107-06-2	1,2-Dichloroethane	48	
78-87-5	1,2-Dichloropropane	51	
108-67-8	1,3,5-trimethylbenzene	49	
541-73-1	1,3-Dichlorobenzene	59	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	58	
594-20-7	2,2-Dichloropropane	48	
78-93-3	2-Butanone	87	
95-49-8	2-Chlorotoluene	52	
591-78-6	2-Hexanone	85	
106-43-4	4-Chlorotoluene	53	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	90	
67-64-1	Acetone	88	
71-43-2	Benzene	45	
108-86-1	Bromobenzene	57	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108876
Sample Volume :	5	Lab File ID :	A62603.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	70	
75-27-4	Bromodichloromethane	54	
75-25-2	Bromoform	54	
74-83-9	Bromomethane	91	
75-15-0	Carbon Disulfide	45	
56-23-5	Carbon Tetrachloride	64	
108-90-7	Chlorobenzene	50	
75-00-3	Chloroethane	72	
67-66-3	Chloroform	53	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	47	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	55	
75-71-8	Dichlorodifluoromethane	44	
100-41-4	Ethylbenzene	45	
106-93-4	Ethylene DiBromide	48	
76-13-1	Freon 113	68	
87-68-3	Hexachlorobutadiene	62	
98-82-8	Isopropylbenzene	49	
79-20-9	Methyl Acetate	46	
108-87-2	Methylcyclohexane	59	
75-09-2	Methylene Chloride	49	
91-20-3	Naphthalene	61	
135-98-8	Sec-Butylbenzene	51	
100-42-5	Styrene	48	
127-18-4	Tetrachloroethylene	58	
108-88-3	Toluene	55	
79-01-6	Trichloroethene	50	
75-69-4	Trichlorofluoromethane	80	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108876

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108876
Sample Volume :	5	Lab File ID :	A62603.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/26/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	35	
75-01-4	Vinyl Chloride	40	
156-59-2	cis-1,2-Dichloroethene	49	
10061-01-5	cis-1,3-Dichloropropene	51	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	47	
103-65-1	n-Propylbenzene	46	
95-47-6	o-Xylene	48	
98-06-6	tert-Butylbenzene	53	
1634-04-4	tert-butyl methyl ether	60	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	51	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62603.D
Acq On : 26 Mar 2009 22:36
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 30 12:09:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.554	96	409560	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.677	114	373286	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	431215	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	116002	53.31	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.62%				
54) Toluene-d8	6.142	98	458749	53.04	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 106.08%				
76) 4-Bromofluorobenzene	8.881	95	189968	46.74	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 93.48%				
92) 1,2-Dichlorobenzene-d4	10.085	152	239428	60.06	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 120.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.178	85	32230	44.41	ug/L		98
3) Chloromethane	1.333	50	61494	43.07	ug/L		97
4) Vinyl chloride	1.387	62	68737	40.56	ug/L		96
5) Bromomethane	1.617	94	80797	91.36	ug/L		96
6) Chloroethane	1.681	64	85832	72.14	ug/L		95
7) Trichlorofluoromethane	1.831	101	197979	79.63	ug/L		99
8) Ethyl Ether	2.039	59	77005	52.86	ug/L		91
9) Freon 113	2.173	101	88468	68.26	ug/L		90
10) Acrolein	2.184	56	67872	231.70	ug/L	#	27
11) Tert-Butyl alcohol	2.670	59	168591	1014.24	ug/L	#	47
12) 1,1-Dichloroethene	2.200	96	83117	55.87	ug/L		86
13) Iodomethane	2.328	142	92601	53.52	ug/L		95
14) Acetonitrile	2.478	40	639679	589.15	ug/L	#	1
15) Methylene chloride	2.585	84	94859	49.21	ug/L		87
16) Trans-1,2-dichloroethene	2.751	96	93532	54.75	ug/L		82
17) Isopropyl ether	3.088	45	333011	50.09	ug/L		97
18) 1,1-Dichloroethane	3.104	63	167898	54.83	ug/L		97
19) Acetone	2.296	43	61609	88.11	ug/L	#	89
20) Methyl Acetate	4.259	43	92528	45.76	ug/L	#	100
21) MTBE	2.735	73	267880	60.05	ug/L		100
22) Carbon disulfide	2.349	76	234239	45.37	ug/L		100
24) Acrylonitrile	2.831	53	126114	243.38	ug/L		95
25) Chloroprene	3.141	53	141076	48.23	ug/L		90
26) n-Heptane	4.559	71	3455	2.31	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	122026	47.63	ug/L	#	74
28) Cis-1,2-dichloroethene	3.575	96	102569	49.47	ug/L		96

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62603.D
Acq On : 26 Mar 2009 22:36
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 30 12:09:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	200824m	91.50	ug/L		
30) Propionitrile	3.735	54	117287	458.38	ug/L		99
31) Bromochloromethane	3.778	128	62784	70.19	ug/L	#	59
32) Tetrahydrofuran	3.789	72	23712	56.45	ug/L	#	1
33) Chloroform	3.831	83	185062	53.00	ug/L		96
34) Cyclohexane	3.928	56	144114	47.25	ug/L	#	86
35) 1,1,1-Trichloroethane	3.954	97	152363	58.47	ug/L		100
36) Carbon tetrachloride	4.056	117	141800	63.56	ug/L		97
37) Methacrylonitrile	3.826	41	745313	535.30	ug/L	#	18
38) Methylcyclohexane	4.987	83	162771	58.74	ug/L		89
39) Isobutyl Alcohol	4.259	43	92528	762.00	ug/L		93
42) 2-Butanone	3.612	43	106452	87.42	ug/L		100
43) 1,1-Dichloropropene	4.093	75	121089	47.85	ug/L		95
44) Vinyl Acetate	3.136	43	99412	34.92	ug/L		98
45) Benzene	4.275	78	357902	45.30	ug/L		100
46) 1,2-Dichloroethane	4.372	62	120108	48.49	ug/L	#	86
47) Trichloroethene	4.880	95	101994	50.27	ug/L	#	70
48) 1,2-Dichloropropane	5.158	63	103955	51.35	ug/L		99
49) Methyl methacrylate	5.260	69	70899	48.36	ug/L		94
50) Dibromomethane	5.276	93	68946	55.37	ug/L		99
51) Bromodichloromethane	5.426	83	142857	54.06	ug/L	#	99
52) 2-Chloroethylvinyl ether	5.779	63	220863	274.01	ug/L		93
53) Cis-1,3-dichloropropene	5.912	75	161257	50.63	ug/L		95
55) Toluene	6.212	92	282881	54.62	ug/L		99
56) Trans-1,3-dichloropropene	6.570	75	148362	51.42	ug/L		91
57) Ethyl methacrylate	6.619	69	134141	51.77	ug/L		99
58) 1,1,2-Trichloroethane	6.774	83	82985	53.41	ug/L		88
60) 4-Methyl-2-pentanone	6.094	43	226147	89.93	ug/L		97
61) 2-Hexanone	7.063	43	153864	84.76	ug/L		96
62) Tetrachloroethene	6.790	166	144068	57.96	ug/L		98
63) 1,3-Dichloropropane	6.972	76	163662	45.62	ug/L		87
64) Dibromochloromethane	7.180	129	131495	50.62	ug/L		98
65) 1,2-Dibromoethane	7.314	107	106817	48.20	ug/L		98
66) 1-Chlorohexane	7.785	91	153663	41.21	ug/L		93
67) Chlorobenzene	7.806	112	362250	49.55	ug/L	#	83
68) 1,1,1,2-Tetrachloroethane	7.908	131	149893	57.24	ug/L		95
69) Ethylbenzene	7.897	91	565098	45.15	ug/L		95
70) m,p-Xylene	8.020	106	489395	99.54	ug/L		82
71) o-Xylene	8.395	106	237245	47.63	ug/L		86
72) Xylene (Total)	8.020	106	730623m	144.67	ug/L		
73) Styrene	8.421	104	396939	47.95	ug/L		99
74) Bromoform	8.598	173	86634	53.78	ug/L		99

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62603.D
Acq On : 26 Mar 2009 22:36
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 30 12:09:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

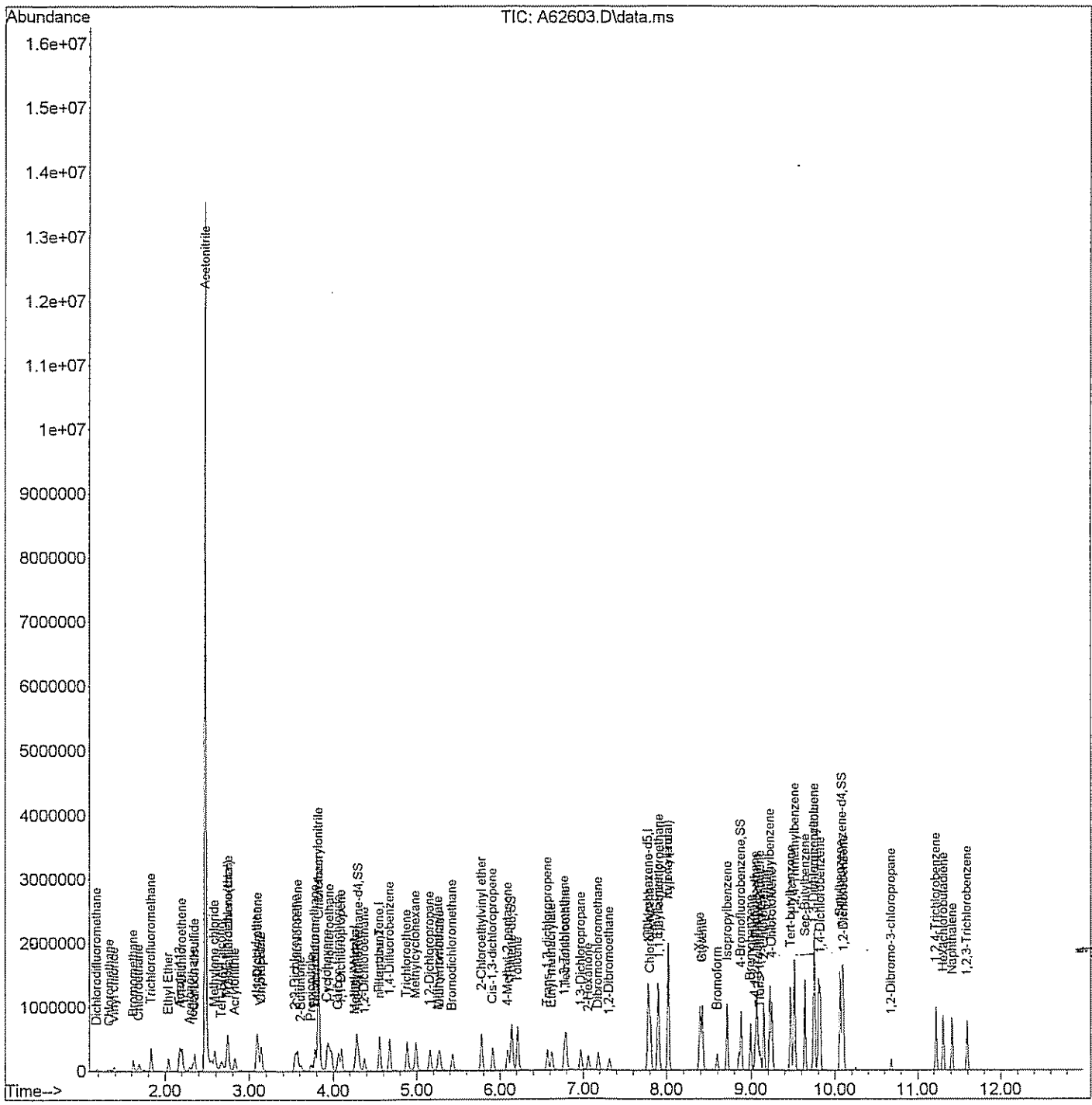
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75) Isopropylbenzene	8.716	105	523468	49.42	ug/L		96
77) Bromobenzene	8.994	156	166155	57.29	ug/L		99
78) 1,1,2,2-Tetrachloroethane	9.047	83	131997	46.34	ug/L		99
79) 1,2,3-Trichloropropane	9.085	110	44303	52.36	ug/L		100
80) n-Propylbenzene	9.063	91	667206	45.51	ug/L		92
81) Trans-1,4-dichloro-2-b...	9.106	53	38316	54.32	ug/L	#	1
82) 2-Chlorotoluene	9.149	126	162247	52.18	ug/L		85
83) 4-Chlorotoluene	9.245	126	170965	52.97	ug/L		70
84) 1,3,5-Trimethylbenzene	9.224	105	514603	49.44	ug/L		91
85) Tert-butylbenzene	9.470	119	481220	53.21	ug/L		91
87) 1,2,4-Trimethylbenzene	9.518	105	534034	49.39	ug/L		88
88) Sec-Butylbenzene	9.641	105	707261	51.03	ug/L		92
89) 1,3-Dichlorobenzene	9.743	146	357187	58.69	ug/L		99
90) 4-Isopropyltoluene	9.753	119	671570	56.98	ug/L		96
91) 1,4-Dichlorobenzene	9.823	146	351998	57.64	ug/L		100
93) 1,2-Dichlorobenzene	10.101	146	332174	57.14	ug/L		99
94) n-Butylbenzene	10.058	91	543686	46.74	ug/L	#	87
95) 1,2-Dibromo-3-chloropr...	10.679	75	23550	48.28	ug/L	#	60
96) 1,2,4-Trichlorobenzene	11.219	180	213992	60.67	ug/L		98
97) Hexachlorobutadiene	11.305	225	102109	62.16	ug/L		94
98) Naphthalene	11.412	128	510873	60.77	ug/L		100
99) 1,2,3-Trichlorobenzene	11.594	180	187684	63.56	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62603.D
Acq On : 26 Mar 2009 22:36
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

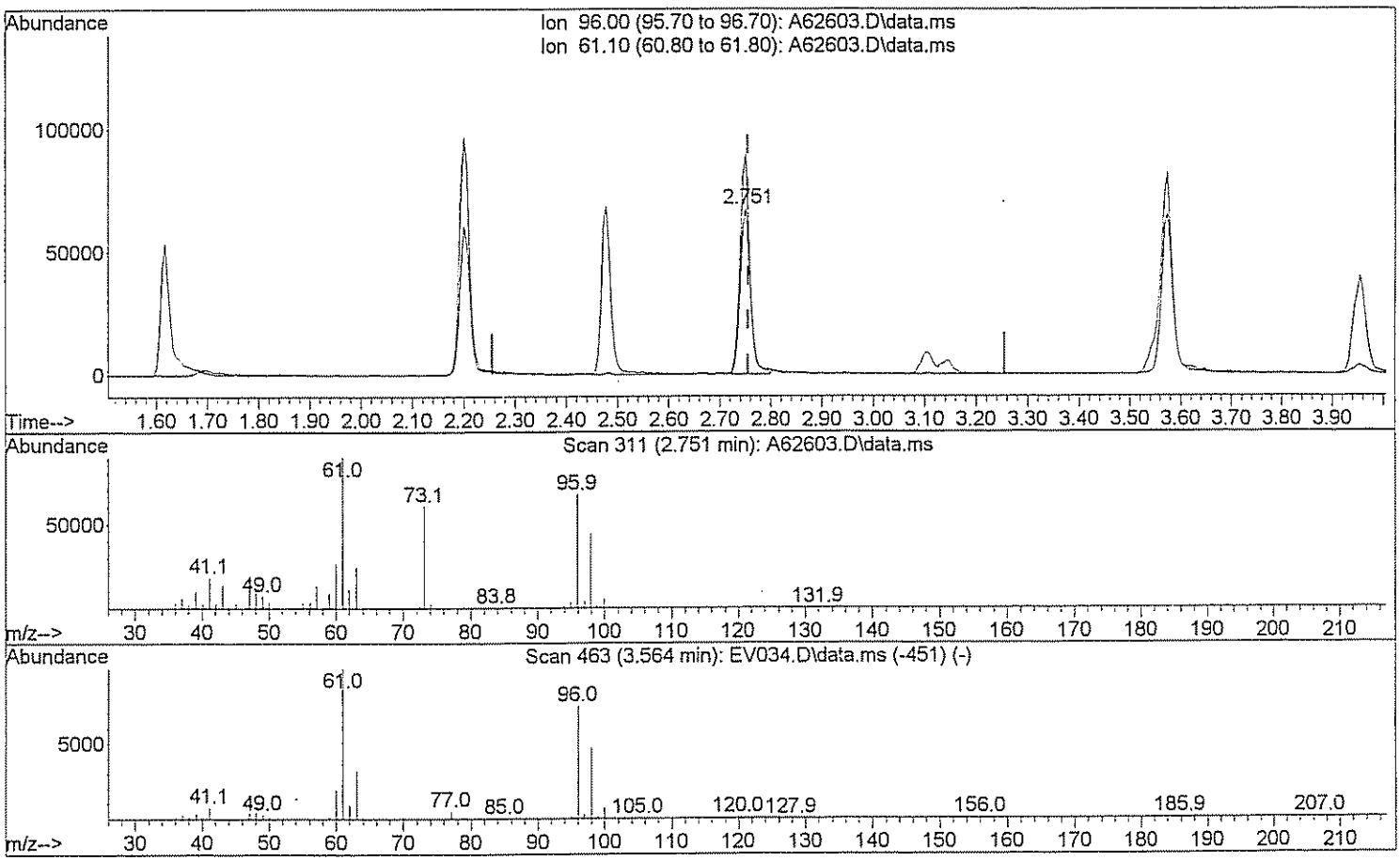
Quant Time: Mar 30 12:09:50 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62603.D
Acq On : 26 Mar 2009 22:36
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 08:32:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62603.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 42.61 ug/L

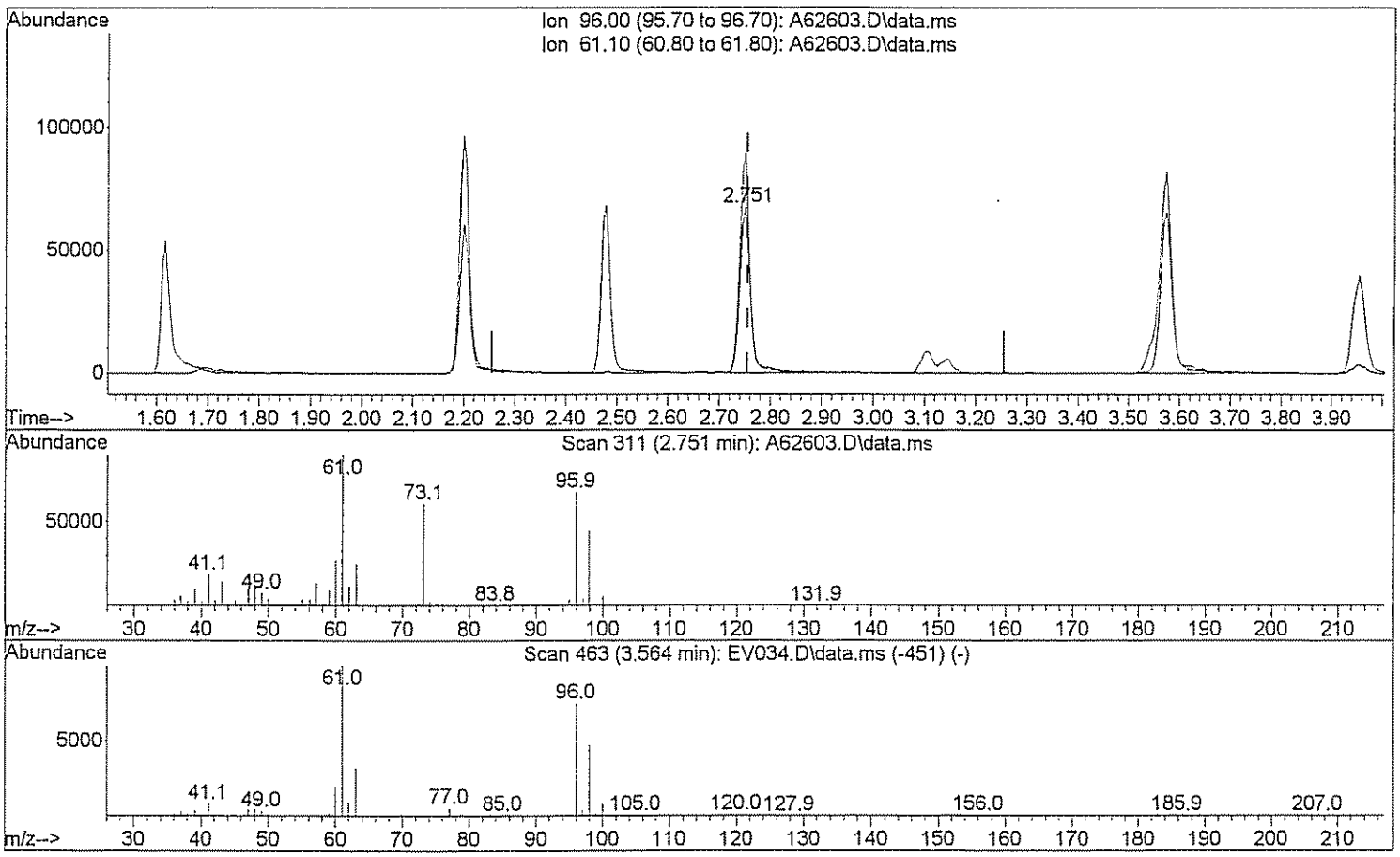
response 93532

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	132.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62603.D
Acq On : 26 Mar 2009 22:36
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 08:32:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62603.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 91.50 ug/L m DN 3/30/09

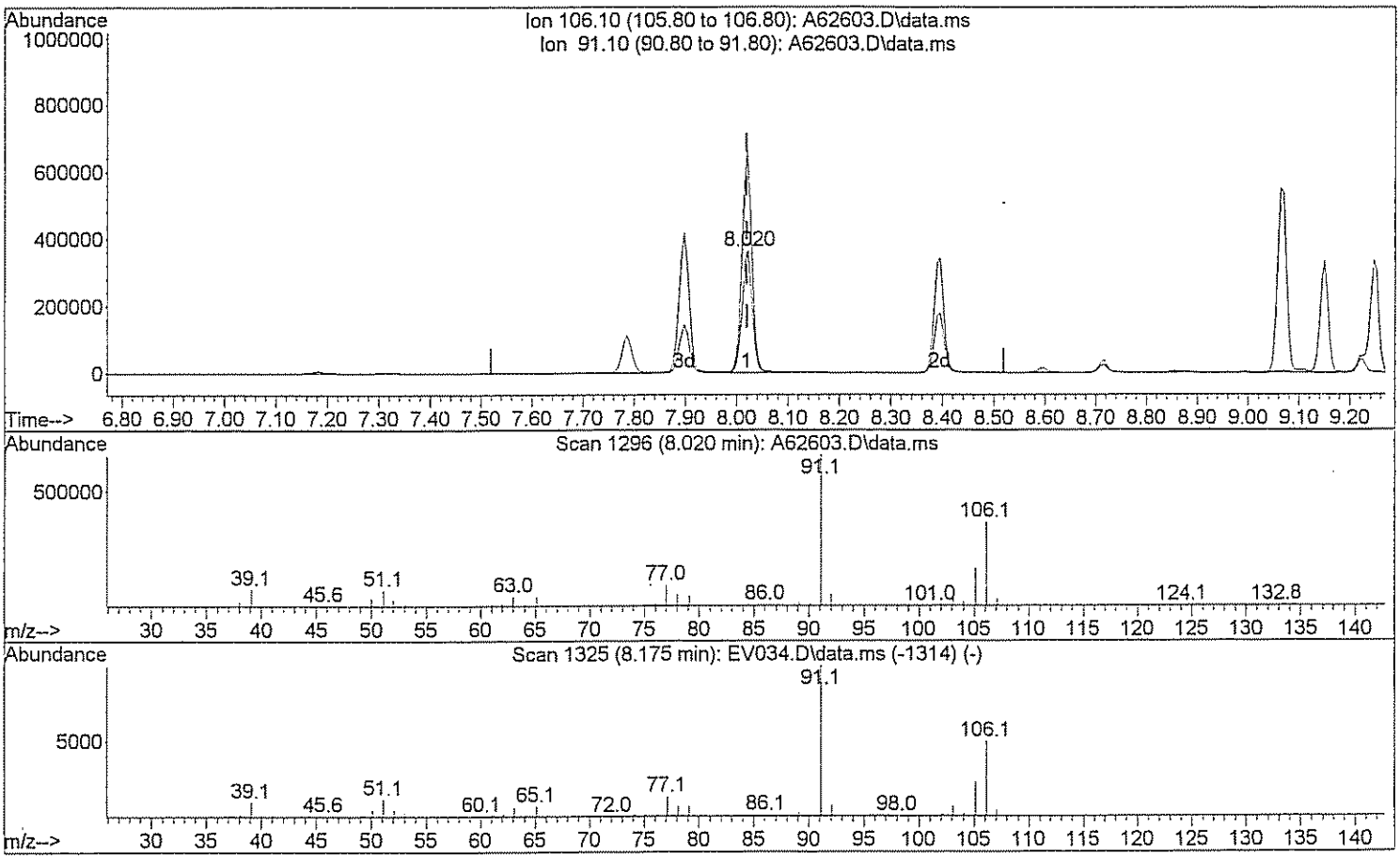
response 200824

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	61.48#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62603.D
Acq On : 26 Mar 2009 22:36
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 08:32:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62603.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 96.90 ug/L

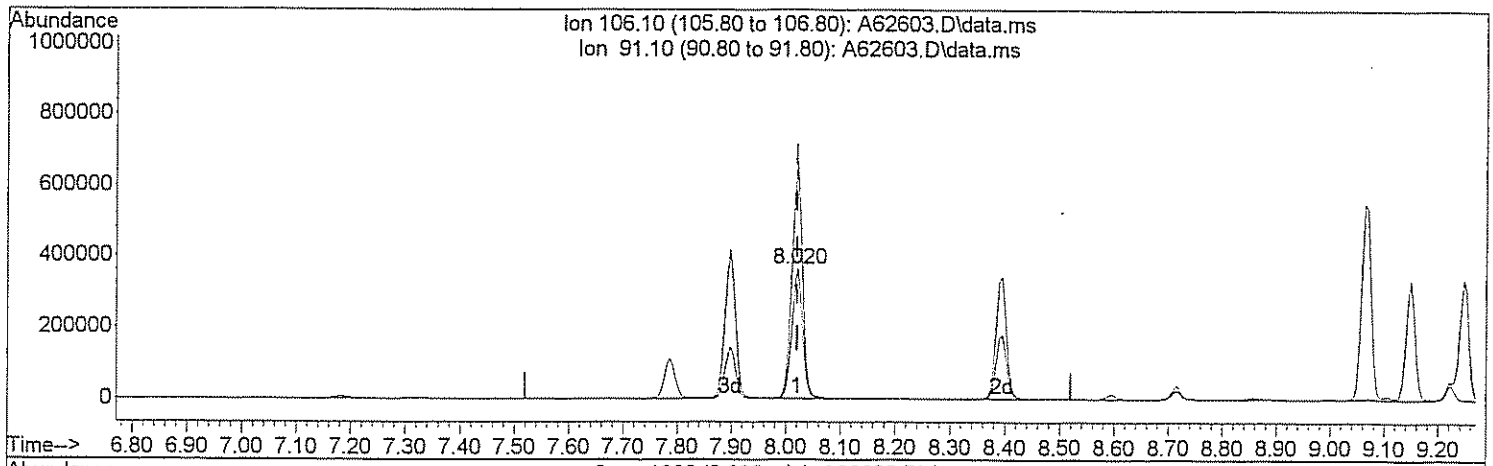
response 489395

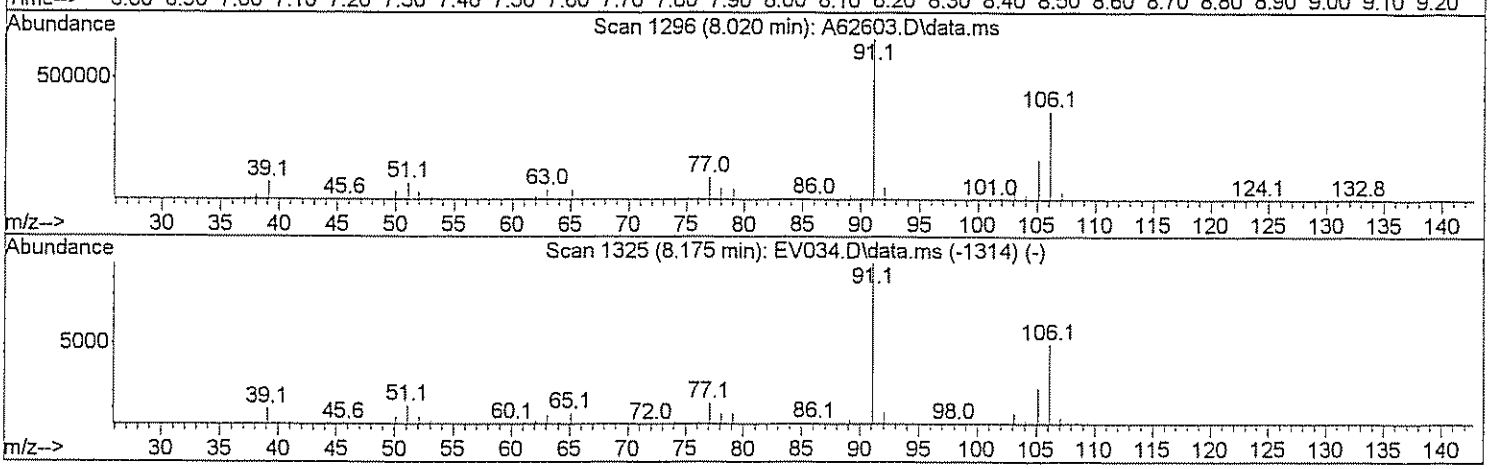
Ion	Exp%	Act%
106.10	100	100
91.10	208.40	180.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032609AC1\
Data File : A62603.D
Acq On : 26 Mar 2009 22:36
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 27 08:32:33 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration





TIC: A62603.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 144.67 ug/L m DN 3/30/09

response 730623

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	121.00#
0.00	0.00	0.00
0.00	0.00	0.00

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108880
Sample Volume :	5	Lab File ID :	A62635.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	
71-55-6	1,1,1-Trichloroethane	57	
79-34-5	1,1,2,2-Tetrachloroethane	48	
79-00-5	1,1,2-Trichloroethane	51	
75-34-3	1,1-Dichloroethane	55	
75-35-4	1,1-Dichloroethene	55	
563-58-6	1,1-Dichloropropene	50	
87-61-6	1,2,3-Trichlorobenzene	59	
96-18-4	1,2,3-Trichloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	53	
96-12-8	1,2-Dibromo-3-Chloropropane	50	
95-50-1	1,2-Dichlorobenzene	54	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	52	
541-73-1	1,3-Dichlorobenzene	56	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	55	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	90	
95-49-8	2-Chlorotoluene	52	
591-78-6	2-Hexanone	92	
106-43-4	4-Chlorotoluene	51	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	90	
67-64-1	Acetone	92	
71-43-2	Benzene	46	
108-86-1	Bromobenzene	55	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108880
Sample Volume :	5	Lab File ID :	A62635.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	62	
75-27-4	Bromodichloromethane	48	
75-25-2	Bromoform	49	
74-83-9	Bromomethane	110	
75-15-0	Carbon Disulfide	44	
56-23-5	Carbon Tetrachloride	62	
108-90-7	Chlorobenzene	50	
75-00-3	Chloroethane	94	
67-66-3	Chloroform	55	
74-87-3	Chloromethane	46	
110-82-7	Cyclohexane	50	
124-48-1	Dibromochloromethane	47	
74-95-3	Dibromomethane	47	
75-71-8	Dichlorodifluoromethane	41	
100-41-4	Ethylbenzene	48	
106-93-4	Ethylene DiBromide	47	
76-13-1	Freon 113	73	
87-68-3	Hexachlorobutadiene	59	
98-82-8	Isopropylbenzene	51	
79-20-9	Methyl Acetate	46	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	48	
91-20-3	Naphthalene	56	
135-98-8	Sec-Butylbenzene	54	
100-42-5	Styrene	50	
127-18-4	Tetrachloroethylene	53	
108-88-3	Toluene	51	
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	90	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BKS108880

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108880
Sample Volume :	5	Lab File ID :	A62635.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	34	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	51	
10061-01-5	cis-1,3-Dichloropropene	49	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	51	
103-65-1	n-Propylbenzene	50	
95-47-6	o-Xylene	48	
98-06-6	tert-Butylbenzene	55	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	56	
10061-02-6	trans-1,3-dichloropropene	49	

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62635.D
Acq On : 27 Mar 2009 10:45
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 14:14:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.553	96	740291	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	4.676	114	677174	50.00	ug/L	#	0.00
59) Chlorobenzene-d5	7.779	117	701470	50.00	ug/L		0.00
System Monitoring Compounds							
40) 1,2-Dichloroethane-d4	4.302	65	206457	52.50	ug/L		0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 105.00%				
54) Toluene-d8	6.142	98	783434	49.93	ug/L		0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 99.86%				
76) 4-Bromofluorobenzene	8.881	95	326862	49.43	ug/L		0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 98.86%				
92) 1,2-Dichlorobenzene-d4	10.085	152	371363	57.27	ug/L		0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 114.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.183	85	53914	41.10	ug/L		95
3) Chloromethane	1.322	50	118015	45.73	ug/L	#	65
4) Vinyl chloride	1.392	62	132811	43.36	ug/L		97
5) Bromomethane	1.616	94	202440	112.89	ug/L		93
6) Chloroethane	1.686	64	202881	94.34	ug/L		98
7) Trichlorofluoromethane	1.830	101	407879	90.57	ug/L		99
8) Ethyl Ether	2.039	59	144854	55.01	ug/L		92
9) Freon 113	2.173	101	171173	73.07	ug/L		99
10) Acrolein	2.183	56	126266	238.47	ug/L	#	74
11) Tert-Butyl alcohol	2.665	59	302913	1008.19	ug/L	#	47
12) 1,1-Dichloroethene	2.205	96	148976	55.40	ug/L		89
13) Iodomethane	2.328	142	152433	48.74	ug/L		99
14) Acetonitrile	2.478	40	1375494	694.61	ug/L	#	1
15) Methylene chloride	2.590	84	167682	48.16	ug/L		93
16) Trans-1,2-dichloroethene	2.751	96	173037	56.03	ug/L		78
17) Isopropyl ether	3.088	45	600801	50.00	ug/L		97
18) 1,1-Dichloroethane	3.104	63	306535	55.38	ug/L		98
19) Acetone	2.296	43	116819	92.37	ug/L		91
20) Methyl Acetate	4.259	43	167578	45.87	ug/L	#	100
21) MTBE	2.734	73	459522	56.99	ug/L		100
22) Carbon disulfide	2.349	76	407311	43.67	ug/L		100
24) Acrylonitrile	2.825	53	227392	242.77	ug/L		98
25) Chloroprene	3.141	53	277566	52.50	ug/L		92
26) n-Heptane	4.553	71	4760	1.76	ug/L	#	1
27) 2,2-Dichloropropane	3.548	77	247794	53.51	ug/L	#	74
28) Cis-1,2-dichloroethene	3.574	96	190843	50.92	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62635.D
Acq On : 27 Mar 2009 10:45
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 14:14:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 1,2-dichloroethene(total)	2.751	96	370936m	93.50 ug/L	
30) Propionitrile	3.735	54	222459	480.99 ug/L	99
31) Bromochloromethane	3.778	128	100531	62.18 ug/L	74
32) Tetrahydrofuran	3.783	72	37299	49.12 ug/L #	1
33) Chloroform	3.831	83	349983	55.46 ug/L	97
34) Cyclohexane	3.933	56	273918	49.72 ug/L	87
35) 1,1,1-Trichloroethane	3.954	97	270362	57.40 ug/L	99
36) Carbon tetrachloride	4.061	117	248080	61.52 ug/L	100
37) Methacrylonitrile	3.826	41	1385363	550.47 ug/L #	22
38) Methylcyclohexane	4.987	83	272512	54.41 ug/L	90
39) Isobutyl Alcohol	4.259	43	167578	763.50 ug/L	92
42) 2-Butanone	3.612	43	199705	90.41 ug/L	93
43) 1,1-Dichloropropene	4.099	75	229642	50.02 ug/L	99
44) Vinyl Acetate	3.130	43	178042	34.47 ug/L	97
45) Benzene	4.281	78	661640	46.16 ug/L	100
46) 1,2-Dichloroethane	4.371	62	227882	50.72 ug/L	90
47) Trichloroethene	4.880	95	179170	48.68 ug/L	82
48) 1,2-Dichloropropane	5.158	63	164768	44.86 ug/L	98
49) Methyl methacrylate	5.260	69	108304	40.72 ug/L	100
50) Dibromomethane	5.281	93	107185	47.45 ug/L	96
51) Bromodichloromethane	5.431	83	232757	48.55 ug/L	100
52) 2-Chloroethylvinyl ether	5.778	63	315888	216.04 ug/L	92
53) Cis-1,3-dichloropropene	5.912	75	281500	48.72 ug/L	98
55) Toluene	6.217	92	477238	50.80 ug/L	97
56) Trans-1,3-dichloropropene	6.570	75	257101	49.11 ug/L	97
57) Ethyl methacrylate	6.624	69	215942	45.94 ug/L	89
58) 1,1,2-Trichloroethane	6.774	83	143610	50.95 ug/L	90
60) 4-Methyl-2-pentanone	6.094	43	368227	90.02 ug/L	97
61) 2-Hexanone	7.062	43	272187	92.18 ug/L	95
62) Tetrachloroethene	6.795	166	215788	53.36 ug/L	99
63) 1,3-Dichloropropane	6.971	76	266661	45.69 ug/L	92
64) Dibromochloromethane	7.185	129	197989	46.86 ug/L	99
65) 1,2-Dibromoethane	7.314	107	170481	47.29 ug/L	99
66) 1-Chlorohexane	7.785	91	275291	45.38 ug/L	97
67) Chlorobenzene	7.806	112	597306	50.22 ug/L	87
68) 1,1,1,2-Tetrachloroethane	7.908	131	214567	50.37 ug/L	96
69) Ethylbenzene	7.897	91	981928	48.23 ug/L	97
70) m,p-Xylene	8.020	106	844040	105.54 ug/L	87
71) o-Xylene	8.394	106	388717	47.97 ug/L	91
72) Xylene (Total)	8.020	106	1239969m	150.93 ug/L	
73) Styrene	8.421	104	674559	50.09 ug/L	97
74) Bromoform	8.598	173	129450	49.40 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62635.D
Acq On : 27 Mar 2009 10:45
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 14:14:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Isopropylbenzene	8.715	105	880018	51.07 ug/L	99
77) Bromobenzene	8.994	156	260235	55.16 ug/L	97
78) 1,1,2,2-Tetrachloroethane	9.047	83	221347	47.77 ug/L	94
79) 1,2,3-Trichloropropane	9.085	110	72999	53.04 ug/L	97
80) n-Propylbenzene	9.063	91	1183257	49.61 ug/L	96
81) Trans-1,4-dichloro-2-b...	9.106	53	71427	62.21 ug/L #	1
82) 2-Chlorotoluene	9.149	126	261982	51.79 ug/L	87
83) 4-Chlorotoluene	9.245	126	269964	51.42 ug/L	85
84) 1,3,5-Trimethylbenzene	9.224	105	878376	51.88 ug/L	95
85) Tert-butylbenzene	9.470	119	807544	54.89 ug/L	97
87) 1,2,4-Trimethylbenzene	9.518	105	934301	53.12 ug/L	93
88) Sec-Butylbenzene	9.641	105	1210810	53.70 ug/L	98
89) 1,3-Dichlorobenzene	9.743	146	551837	55.74 ug/L	100
90) 4-Isopropyltoluene	9.753	119	1132584	59.07 ug/L	100
91) 1,4-Dichlorobenzene	9.823	146	549078	55.27 ug/L	100
93) 1,2-Dichlorobenzene	10.101	146	512261	54.17 ug/L	97
94) n-Butylbenzene	10.058	91	971038	51.31 ug/L	94
95) 1,2-Dibromo-3-chloropr...	10.679	75	39297	49.52 ug/L #	74
96) 1,2,4-Trichlorobenzene	11.219	180	332877	58.01 ug/L	95
97) Hexachlorobutadiene	11.305	225	157792	59.05 ug/L	96
98) Naphthalene	11.412	128	771230	56.40 ug/L	100
99) 1,2,3-Trichlorobenzene	11.594	180	283626	59.04 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62635.D
Acq On : 27 Mar 2009 10:45
Operator : SM
Sample : BKS
Misc : BKS
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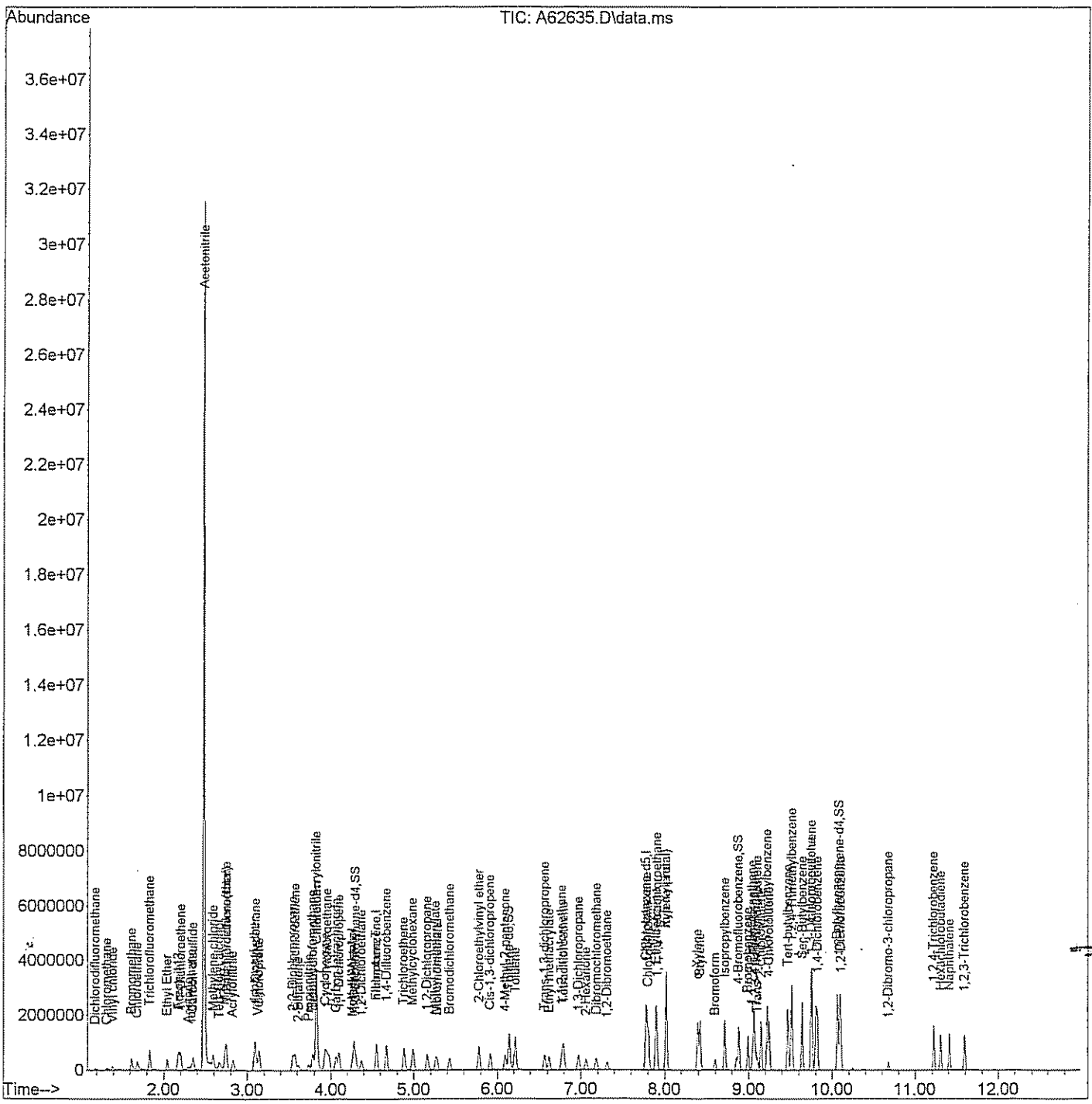
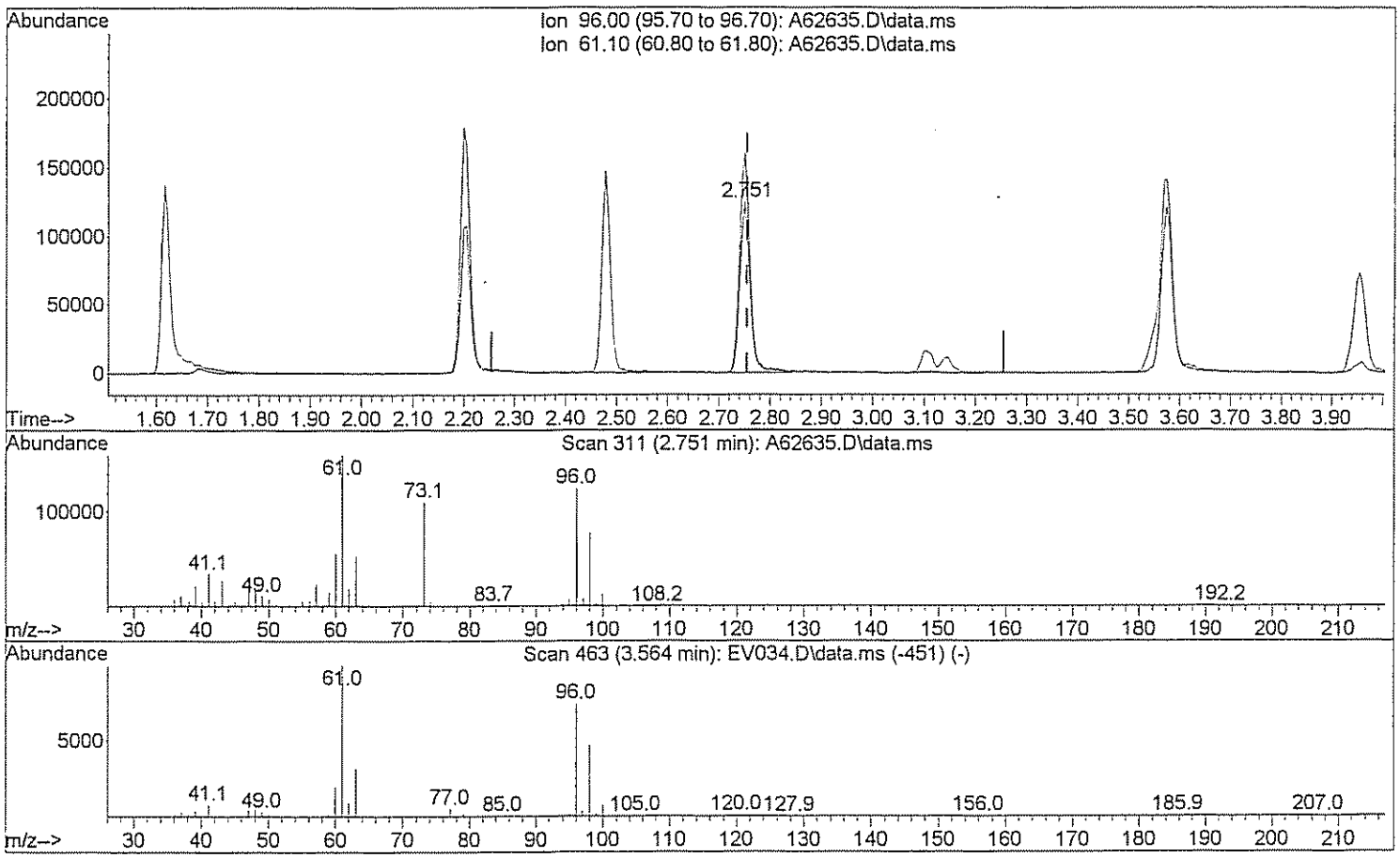
Quant Time: Mar 30 14:14:08 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62635.D
Acq On : 27 Mar 2009 10:45
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 08:35:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62635.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 43.62 ug/L

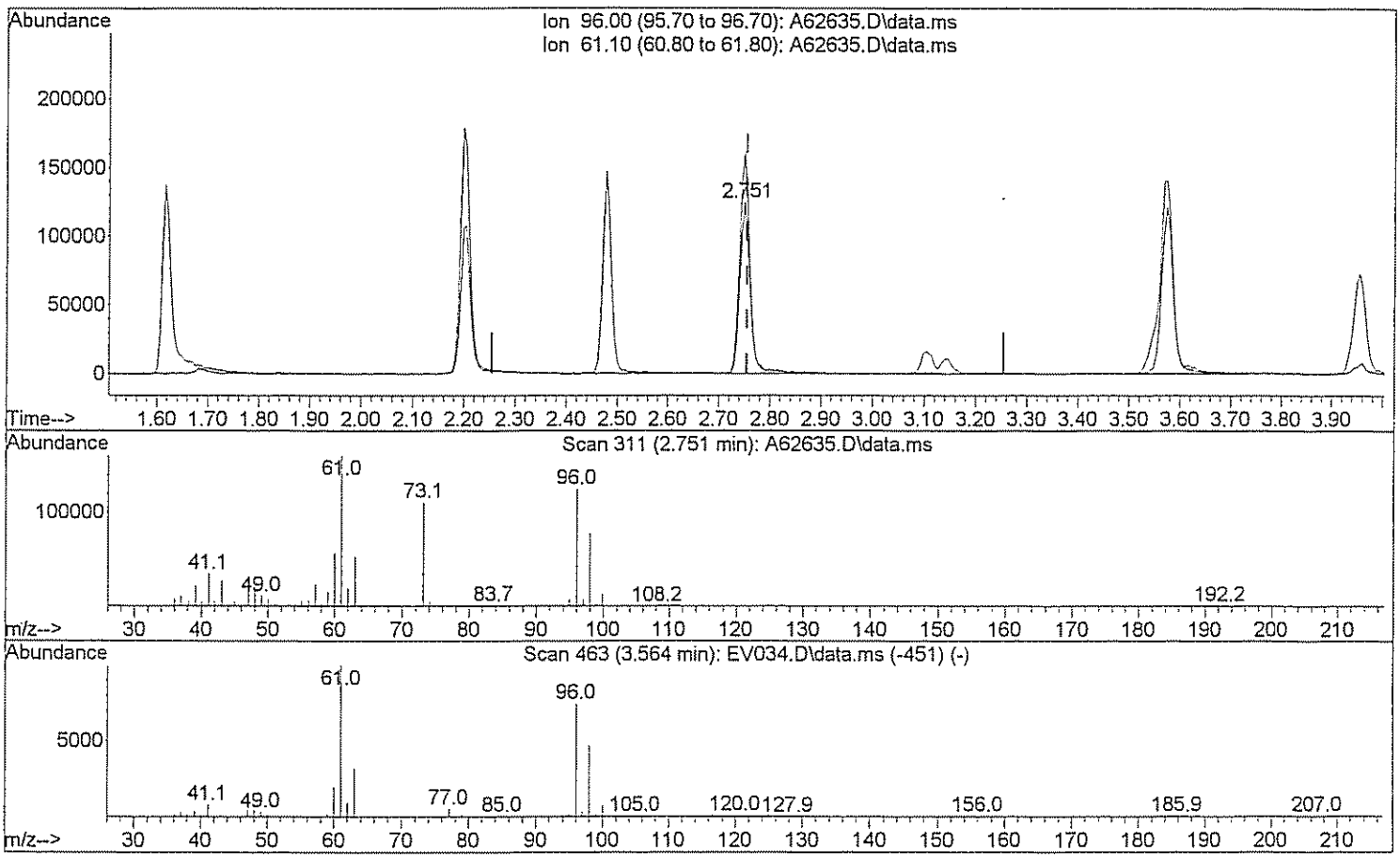
response 173037

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	126.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62635.D
Acq On : 27 Mar 2009 10:45
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 08:35:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62635.D\data.ms

(29) 1,2-dichloroethene(total)

2.751min (-0.005) 93.50 ug/L m DW 3/30/09

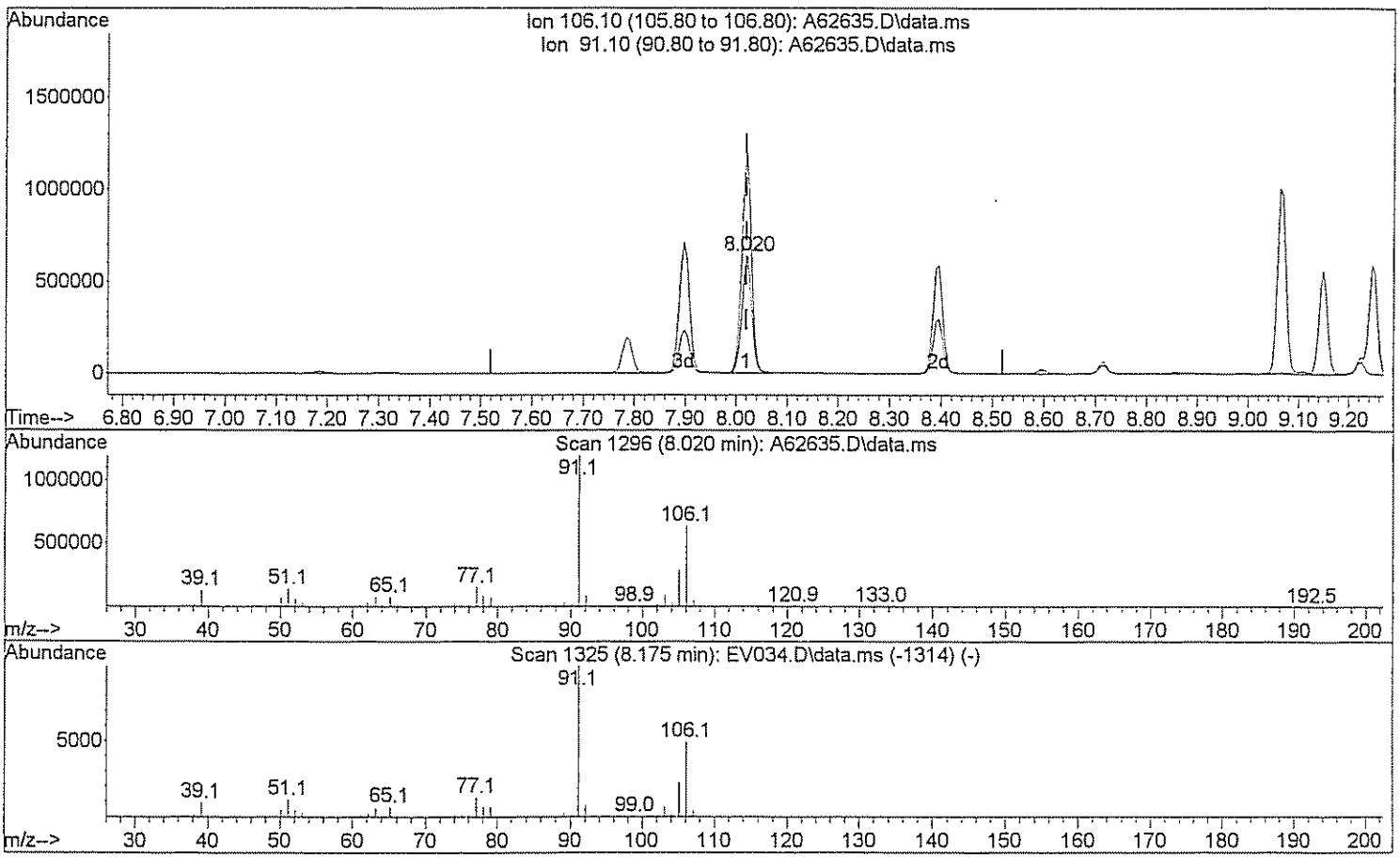
response 370936

Ion	Exp%	Act%
96.00	100	100
61.10	143.80	59.19#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62635.D
Acq On : 27 Mar 2009 10:45
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 08:35:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62635.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 102.74 ug/L

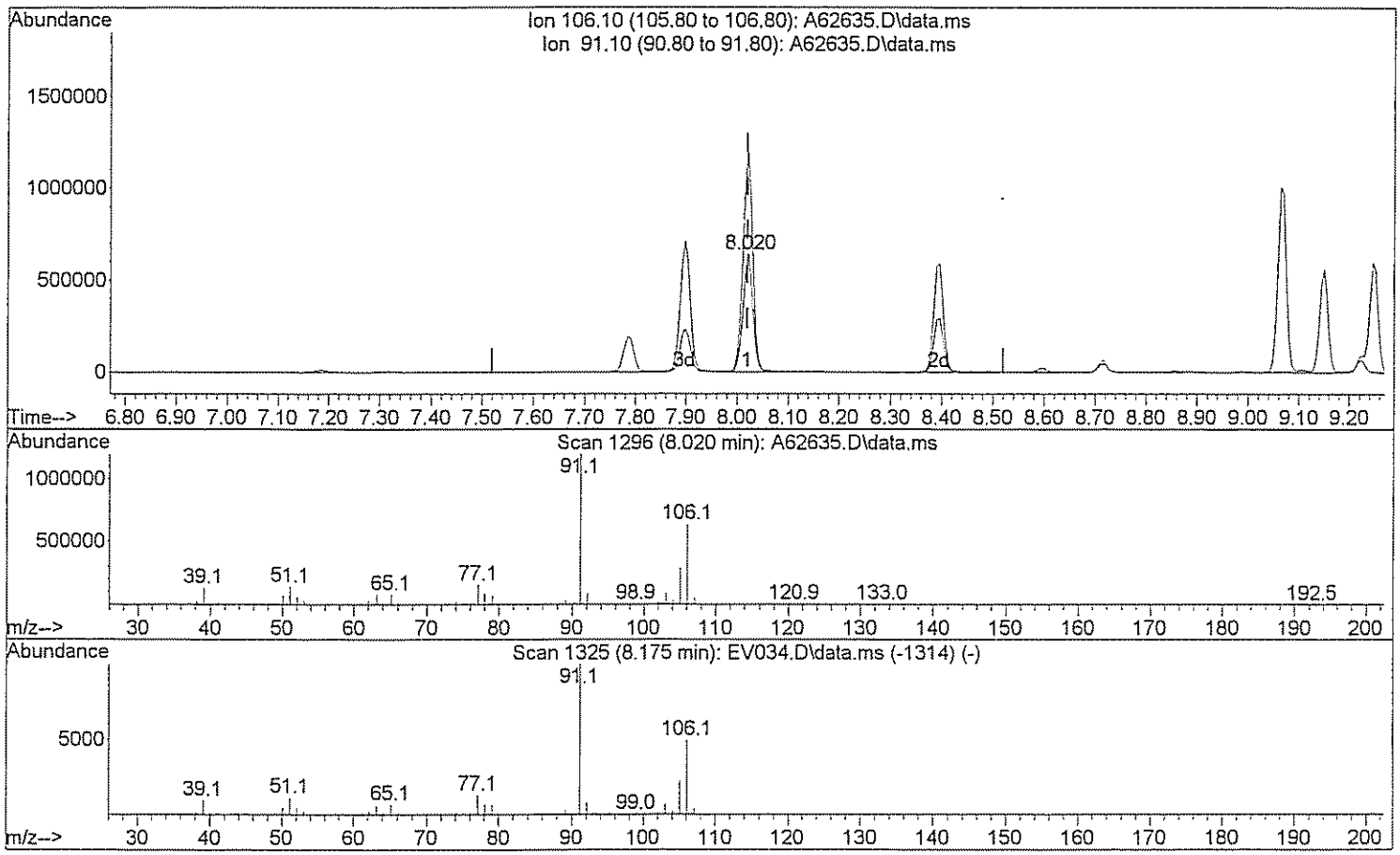
response 844040

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	187.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : H:\GCMSDATA\A\032709C1\
Data File : A62635.D
Acq On : 27 Mar 2009 10:45
Operator : SM
Sample : BKS
Misc : BKS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 08:35:37 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260_031009.M
Quant Title : 8260
QLast Update : Tue Mar 17 08:05:28 2009
Response via : Initial Calibration



TIC: A62635.D\data.ms

(72) Xylene (Total)

8.020min (+0.000) 150.93 ug/L m 3/30/09

response 1239969

Ion	Exp%	Act%
106.10	100	100
91.10	208.40	127.73#
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: JM Date: 3/11/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_031009
SEQUENCE FILE:	3-10-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62205	BFB	3-10-09	07:35	1X	Std	5mL	N/A	BFB	Ok
	A 7	CAL01	↓	↓	↓	↓	↓	↓	8260	Ok
	A 9	CAL05								Ok
	A 11	CAL20								Ok
	A 13	CAL50								Ok
	A 15	CAL100								Ok
	A 17	Rinse								Cleaning
	A 19	CAL200								Ok
	A 21	BLK								Ok
	A 23	BKS				↓				Ok
	A 25	903020-001				1:20				OK
	A 27	903020-004								Ok
	A 29	903020-005		↓						Ok
	A 31	903020-006		19:08						Ok
	A ↓ 33	903020-007	↓	Outoftune	↓	↓	↓	↓	↓	Rerun
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

SM 3/11/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11511	50	3-10-09	2.5 ml
Mix1	11512	100		
Mix2	11513	↓		
Mix3	11514	500		
Gasmix	11515	100		
RefMix	11516	↓	↓	

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: MK Date: 03/27/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	SM

ICAL Date: 3-10-09

METHOD FILE:	A8260_030909
SEQUENCE FILE:	3-26-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62565	BFB	3-26-09	08:27	1X	Std	5mL	N/A	BFB 8260	OK
	A 67	CCV50								
	A 69	BKS								
	71	BLK			50X	H2O	100mL	↓		
	A 73	903093-004			1X		5mL			
	A 75	903093-010								
	A 77	903192-001								
	A 79	903192-002								
	A 81	903192-003								
	A 83	903192-004								
	A 85	903192-005								
	A 87	903192-001MS								
	A 89	903192-001MSD								
	A 91	903124-001								
	A 93	903124-002								
	A 95	903124-003	↓	19:53	↓	↓	↓	↓	↓	↓
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11552	50	3-24-09	2.5mL
Mix1	11553	100		
Mix2	11554	↓		
Mix3	11555	500		
Gas Mix	11556	100		
Reg Mix	11557	↓		

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: JM Date: 3/5/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	JM

ICAL Date: 3-10-09

METHOD FILE:	A8260_0310009
SEQUENCE FILE:	3-26-09ACL
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A 62597	BFB	3/26/09	20:34	1X	Std	5mL	N/A	BFB	NOT USED
	A 99	BFB							↓	OK
	A 600	BFB							8260	OK
	1	CO150								OK
	A 3	BKS				↓		↓		OK
	A 5	BLK				H2O		2		
	A 7	903124-004	↓							
	A 9	903124-005	3/27/09							
	A 11	903124-006								
	A 13	903124-007								dilute 500x
	A 15	903124-008								
	A 17	903124-009								
	A 19	903124-010								
	A 21	903124-011								
	A 23	903124-012								
	A 25	903124-013		↓						
	A ↓ 27	Fridge BLK		06:43	↓	↓	↓	↓	↓	↓
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

3/30/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260 IS/SS	11552	50	3/24-09	2.5 mL
Mix1	11553	100		
Mix2	11554	↓		
Mix3	11555	500		
GasMix	11556	100		
RefMix	11557	↓		

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NV Date: 3/30/09

INSTRUMENT ID:	HP 5975 #A
ANALYSIS/FRACTION:	VOA
ANALYSTS:	DM

ICAL Date: 3-10-09

METHOD FILE:	~~3-27-09~~ A8260_031009 (DM 3/30/09)
SEQUENCE FILE:	3-27-09C1
TUNE FILE:	BFB

ALS	FILE ID	GPL ID	DATE	TIME	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	A ~~6~~2916291 (DM 3/30/09)	BFB	3-27-09	08:18	1X	Std	5mL	N/A	BFB	ok
	A 31/41	CCV50							8260	NOT USED
	A 33	CCV50								OK
	35	BKS								Ok
	A 37	BLK								OK
	A 39	903124-008			500X	H2O	10uL	<2		Ok
	A 41	903123-001			1X		5mL			OK
	A 43	903123-002			10X		0.5mL			Ok
	A 45	903123-003			1x		5mL			Ok
	A 47	903123-004								dilute 50x
	A 49	903123-005								OK
	A 51	903123-006								Ok
	A 53	903123-007								Ok
	A 55	903123-008								OK
	A 57	903130-001								OK
	A 59	903130-002	↓	19:15	↓	↓	↓	↓	↓	OK
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									
	A									

DM 3/30/09

REMARKS:

Standards	Lot #	Conc.	Prep. Date	Volume
8260IS/SS	11552	50	3-24-09	2.5uL
Mix1	11553	100	↓	↓
Mix2	11554	↓	↓	↓
Mix3	11555	500	↓	↓
GasMix	11556	100	↓	↓
RefMix	11557	↓	↓	↓

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary (where applicable)

GPL Laboratories, LLLP

Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903124

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-52GW47-0309	10.4	10.6	2.03	15%
Nitrite-N	E300.0	OU1-52GW47-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-52GW47-0309	BQL	BQL	N/C	15%
Chloride	E300.0	OU1-52GW71-0309	8.43	8.28	1.78	15%
Nitrite-N	E300.0	OU1-52GW71-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-52GW71-0309	BQL	BQL	N/C	15%

RPD - 0 out of 6 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-52GW47-0309	10.4	23.0	10.0	126*	90 - 110%
Nitrite-N	E300.0	OU1-52GW47-0309	0.00	1.10	1.00	110	90 - 110%
Nitrate-N	E300.0	OU1-52GW47-0309	0.00	0.872	1.00	87.2*	90 - 110%
Chloride	E300.0	OU1-52GW71-0309	8.43	19.6	10.0	112*	90 - 110%
Nitrite-N	E300.0	OU1-52GW71-0309	0.00	1.29	1.00	129*	90 - 110%
Nitrate-N	E300.0	OU1-52GW71-0309	0.00	0.951	1.00	95.1	90 - 110%

Recovery - 4 out of 6 outside control limits

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #45307/#44035

LCSL (3/18/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	144	91.1	85 - 115%
Nitrite-N	732	685	93.6	85 - 115%
Nitrate-N	187	168	89.7	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/18/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	148	93.8	85 - 115%
Nitrate-N	187	176	93.9	85 - 115%

Recovery - 0 out of 2 outside Control Limits

B. Sample Data

GPL Laboratories, LLLP

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-034-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

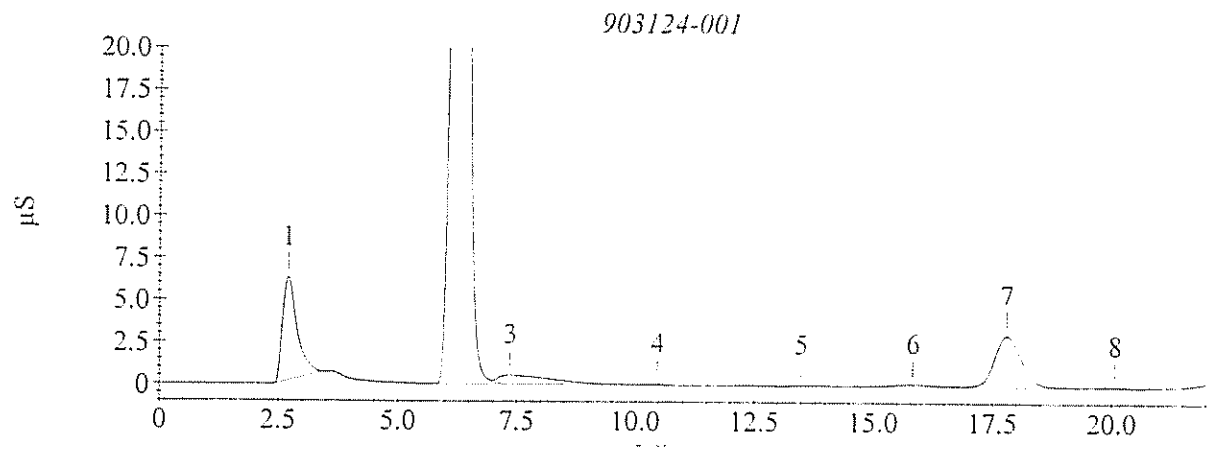
Sample Analysis Report

Sample Name : 903124-001
Data File Name : I:\ICDATA\IC500\090318\090318__078.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\0903181-300-0.met
Date Time Collected : 3/19/09 9:56:37 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.049	1277935	61019
2	Chloride	6.33	13.620	12428283	519988
	Nitrite-N				
4	Bromide	10.47	0.038	11052	527
	Nitrate-N				
6	Phosphate-P	15.83	0.184	75425	1253
7	Sulfate	17.80	1.664	1197520	30476



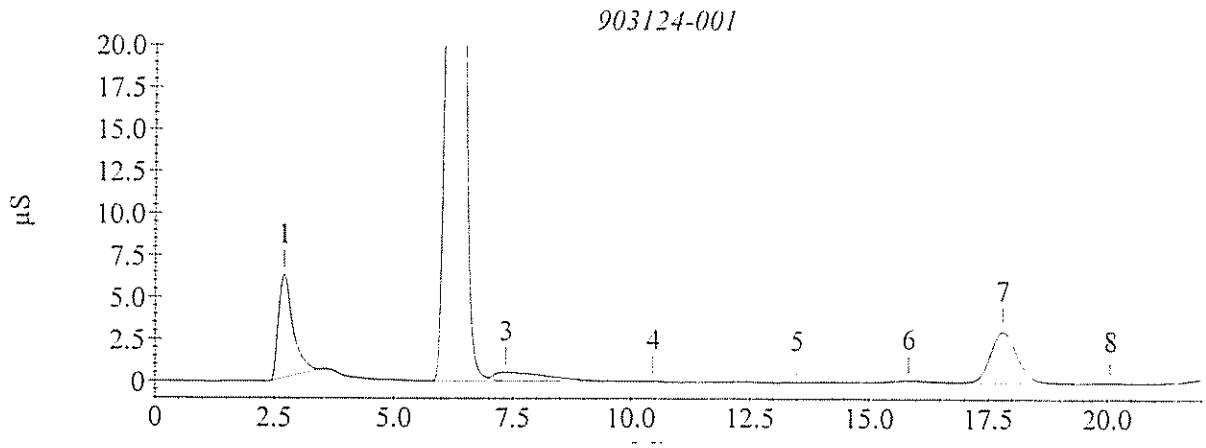
Sample Analysis Report

Sample Name : 903124-001
Data File Name : I:\ICDATA\IC500\090318\090318__078.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/19/09 9:56:37 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.70	0.000	1277935	61019
2	Chloride	6.33	10.418	12428283	519988
	Nitrite-N				
4	Bromide	10.47	1.933	11052	527
	Nitrate-N				
	Phosphate-P				
7	Sulfate	17.80	2.860	1197520	30476



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-035-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	8.4	
7727-37-9	Nitrite	0.10	U

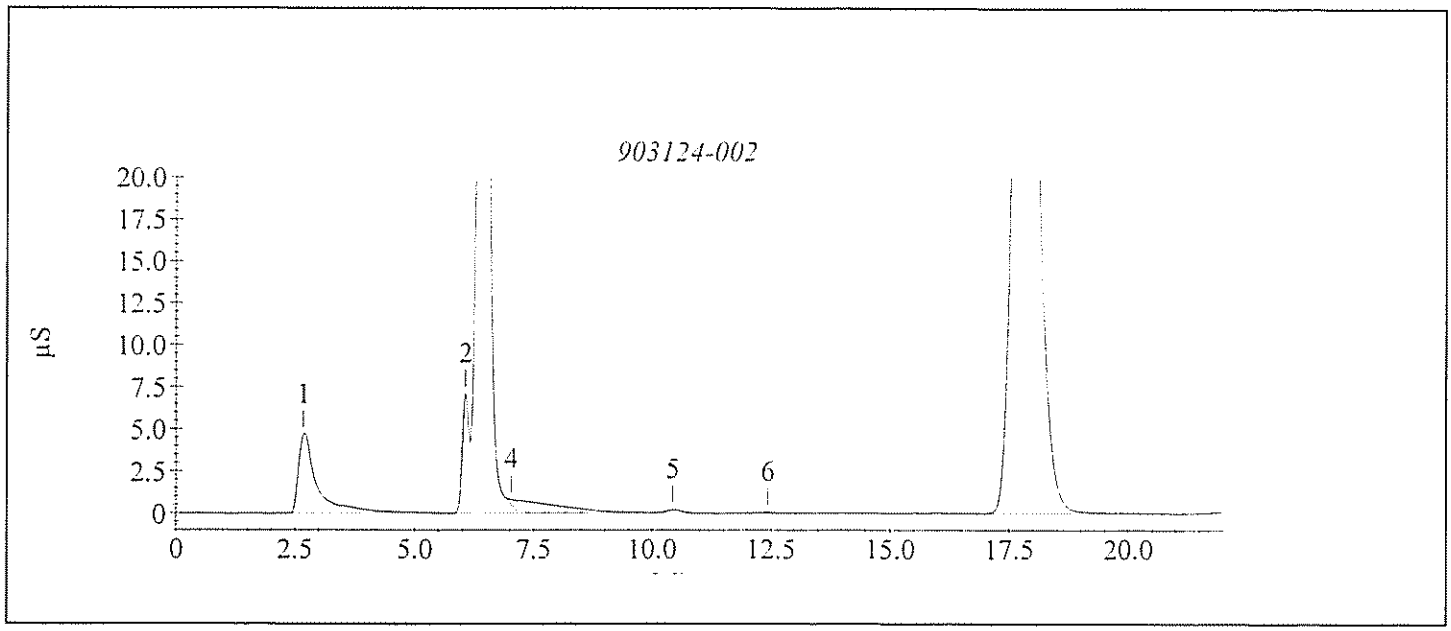
Sample Analysis Report

Sample Name : 903124-002
Data File Name : I:\ICDATA\IC500\090318\090318__090.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318l-300-0.met
Date Time Collected : 3/20/09 2:57:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1248796	46450
3	Chloride Nitrite-N	6.43	10.034	9151767	556748
5	Bromide	10.43	0.121	42168	1867
6	Nitrate-N Phosphate-P	12.43	0.050	8876	393
7	Sulfate	17.77	23.814	17054325	510945



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-035-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/30/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	0.10	U

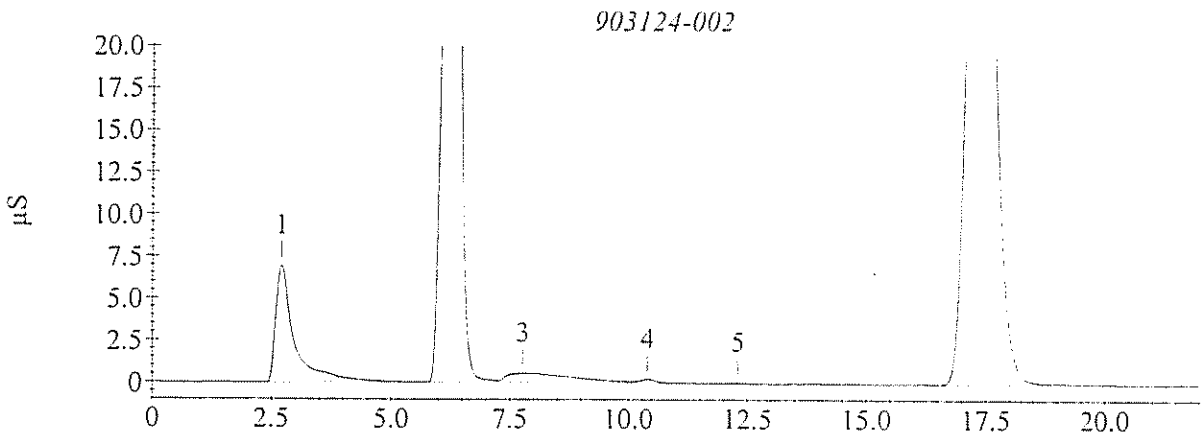
Sample Analysis Report

Sample Name : 903124-002
Data File Name : I:\ICDATA\IC500\090330\090330__009.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318h-300-0.met
Date Time Collected : 3/30/09 7:55:59 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.70	0.000	1874019	69441
2	Chloride	6.30	8.427	9690308	395584
	Nitrite-N				
4	Bromide	10.40	2.022	62021	2296
	Nitrate-N				
	Phosphate-P				
6	Sulfate	17.33	18.494	17196855	480466



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-036-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	9.0	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

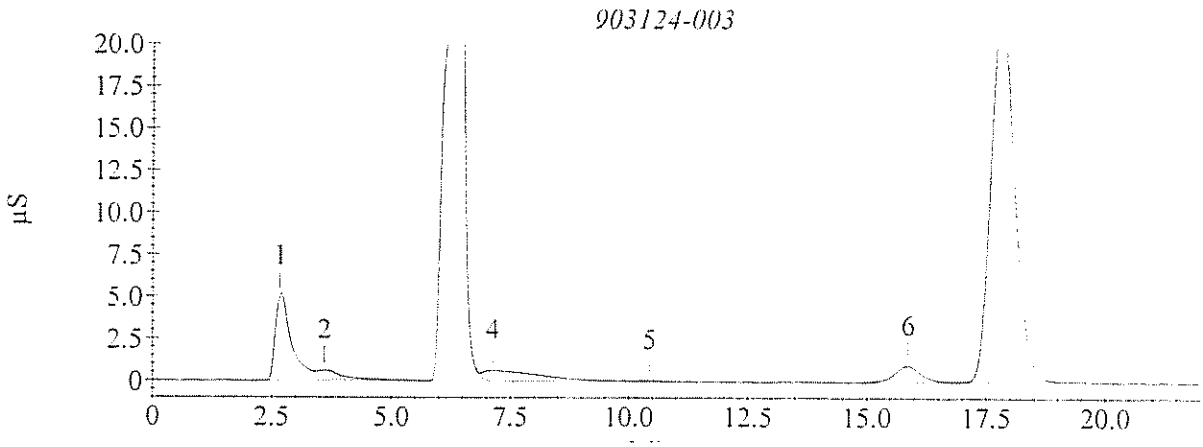
Sample Analysis Report

Sample Name : 903124-003
Data File Name : I:\ICDATA\IC500\090318\090318__086.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318l-300-0.met
Date Time Collected : 3/20/09 1:17:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.130	148039	3661
3	Chloride Nitrite-N	6.37	11.505	10495980	499941
5	Bromide Nitrate-N	10.43	0.051	15747	593
6	Phosphate-P	15.87	0.746	379761	9624
7	Sulfate	17.80	10.590	7587872	219203



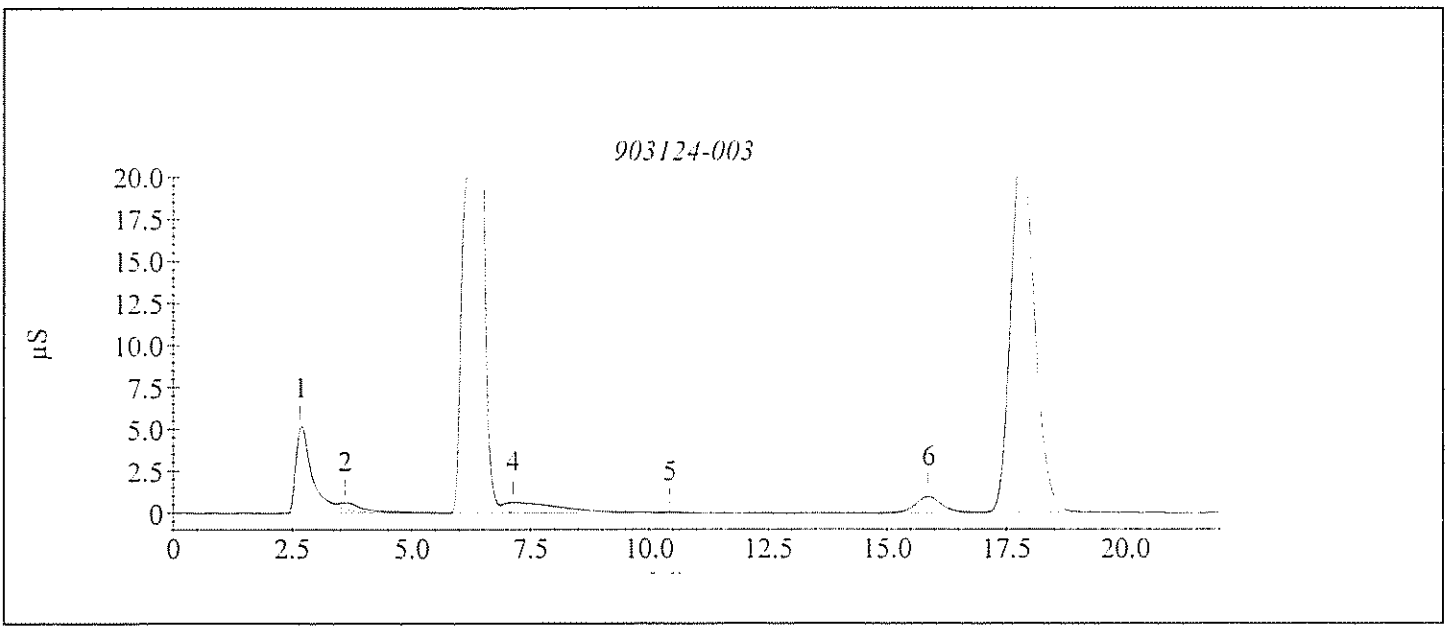
Sample Analysis Report

Sample Name : 903124-003
Data File Name : I:\ICDATA\IC500\090318\090318__086.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/20/09 1:17:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.712	148039	3661
3	Chloride	6.37	9.013	10495980	499941
	Nitrite-N				
5	Bromide	10.43	1.941	15747	593
	Nitrate-N				
	Phosphate-P				
7	Sulfate	17.80	9.104	7587872	219203



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-037-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	0.10	U
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	6.1	

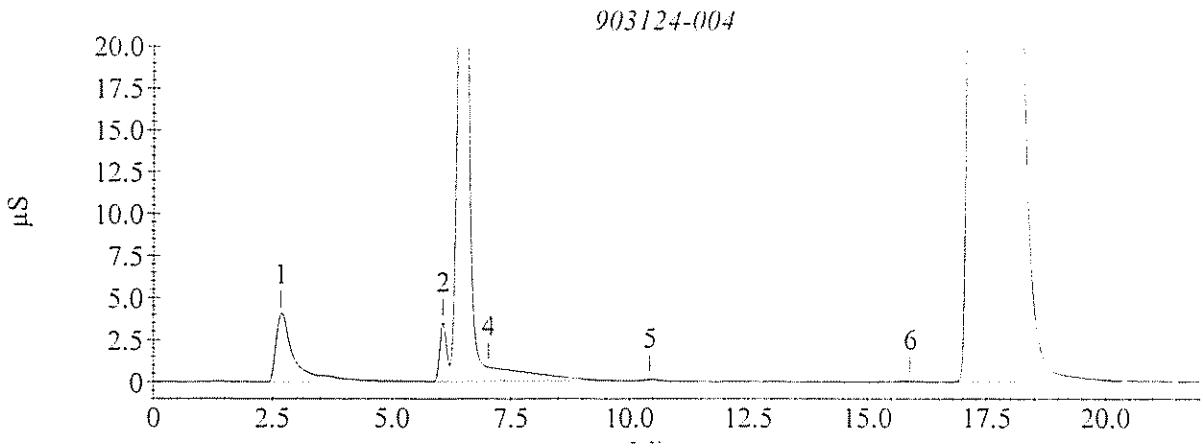
Sample Analysis Report

Sample Name : 903124-004
Data File Name : I:\ICDATA\IC500\090318\090318__088.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318I-300-0.met
Date Time Collected : 3/20/09 2:07:27 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1109910	39587
3	Chloride Nitrite-N	6.50	7.081	6454390	440102
5	Bromide Nitrate-N	10.43	0.054	17066	886
6	Phosphate-P	15.90	0.065	11124	417
7	Sulfate	17.37	154.692	110746041	2777812



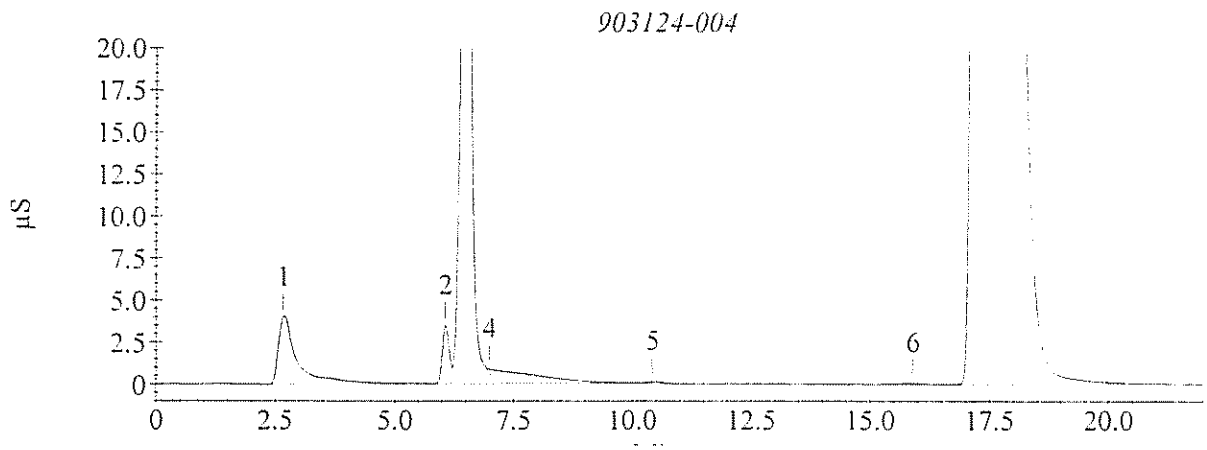
Sample Analysis Report

Sample Name : 903124-004
Data File Name : I:\ICDATA\IC500\090318\090318__088.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/20/09 2:07:27 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1109910	39587
3	Chloride Nitrite-N	6.50	6.062	6437218	440102
5	Bromide Nitrate-N Phosphate-P	10.43	1.943	17066	886
7	Sulfate	17.37	109.906	110746041	2777812



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-038-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

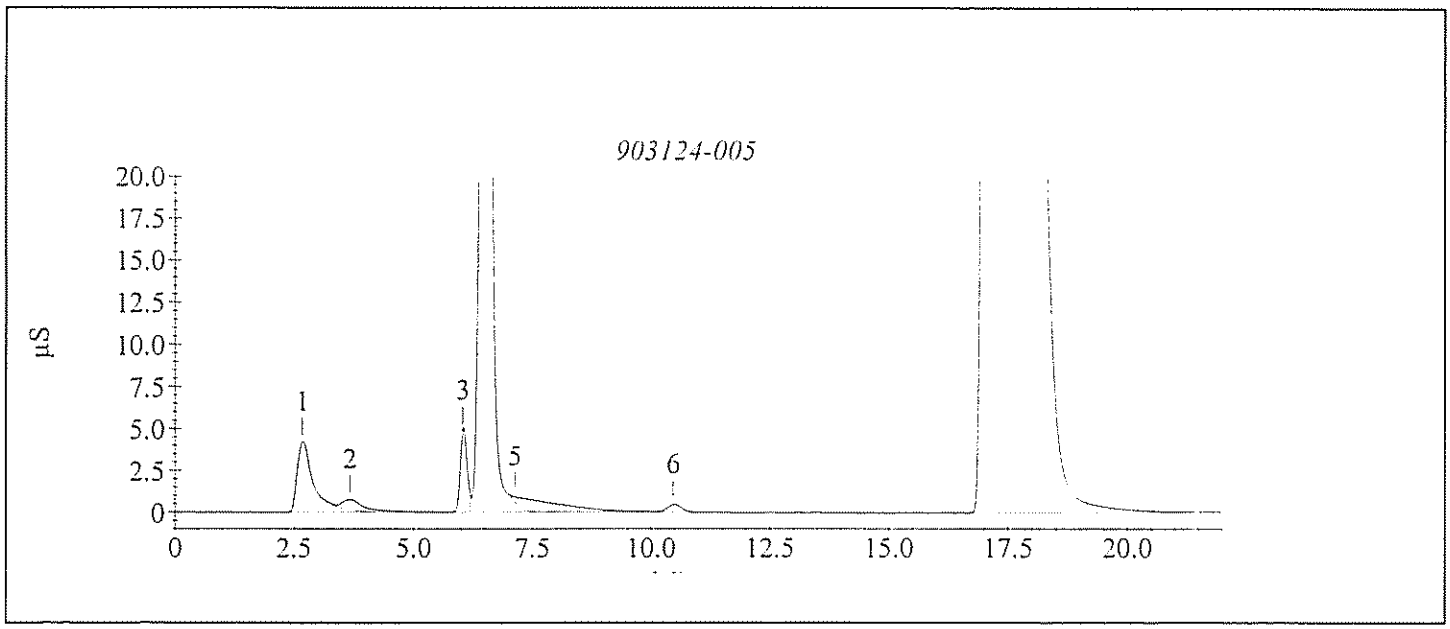
Sample Analysis Report

Sample Name : 903124-005
Data File Name : I:\ICDATA\IC500\090318\090318__080.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318L-300-0.met
Date Time Collected : 3/19/09 10:46:45 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.173	200298	6298
4	Chloride	6.50	13.805	12597394	937521
	Nitrite-N				
6	Bromide	10.47	0.257	93919	4554
	Nitrate-N				
	Phosphate-P				
7	Sulfate	17.20	239.986	171805860	3804866



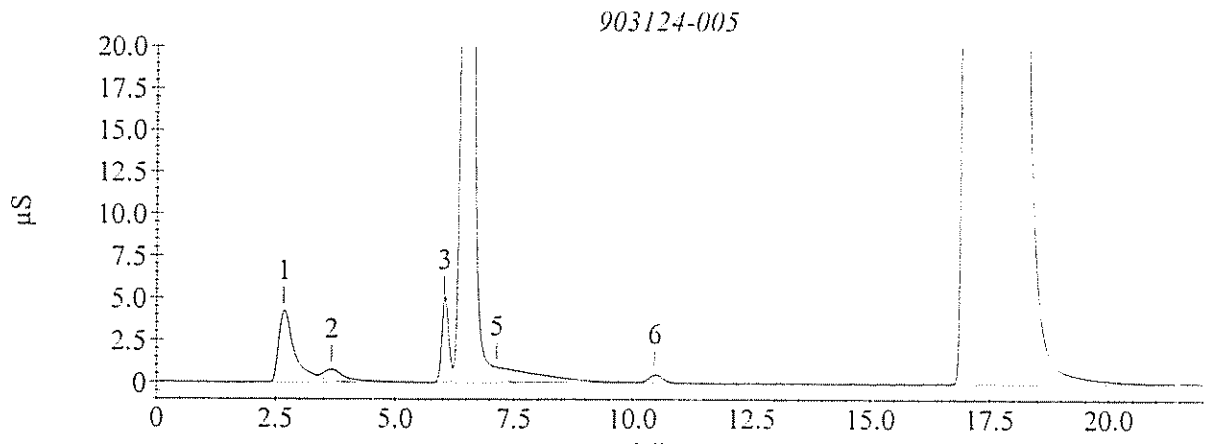
Sample Analysis Report

Sample Name : 903124-005
Data File Name : I:\ICDATA\IC500\090318\090318__080.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/19/09 10:46:45 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	0.744	200298	6298
4	Chloride Nitrite-N	6.50	10.541	12597394	937521
6	Bromide Nitrate-N Phosphate-P	10.47	2.077	93919	4554
7	Sulfate	17.20	169.570	171805860	3804866



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-039-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	5.4	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

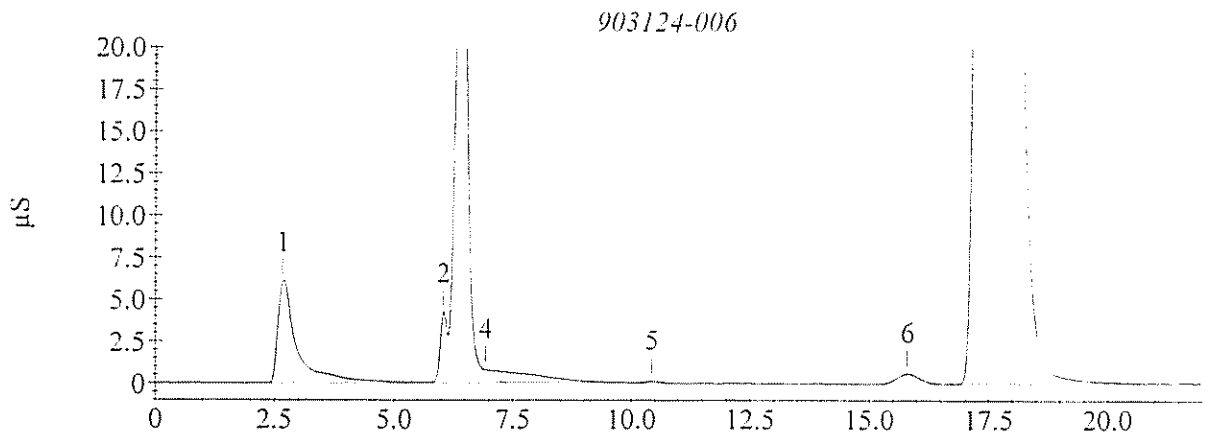
Sample Analysis Report

Sample Name : 903124-006
Data File Name : I:\ICDATA\IC500\090318\090318__081.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318I-300-0.met
Date Time Collected : 3/19/09 11:11:50 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1697234	59603
3	Chloride Nitrite-N	6.40	6.113	5569938	319957
5	Bromide Nitrate-N	10.43	0.082	27528	1118
6	Phosphate-P	15.80	0.405	194956	5922
7	Sulfate	17.47	105.141	75274452	1965720



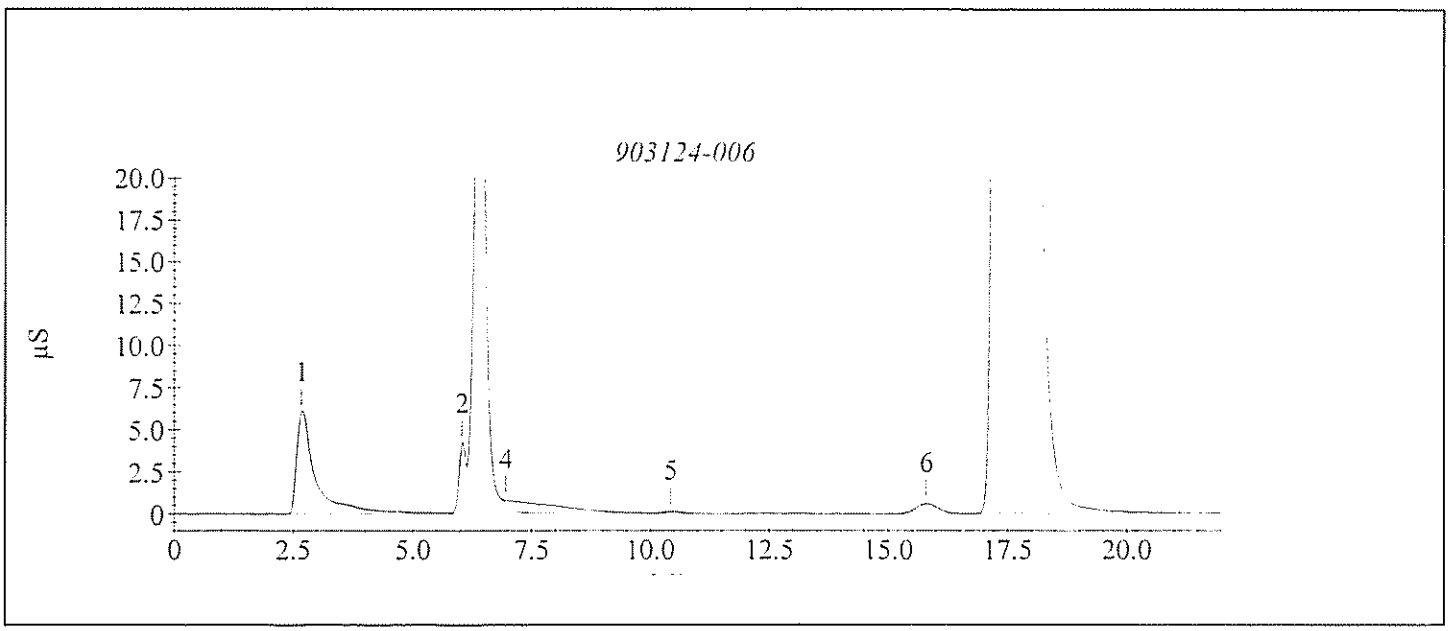
Sample Analysis Report

Sample Name : 903124-006
Data File Name : I:\ICDATA\IC500\090318\090318__081.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/19/09 11:11:50 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1697234	59603
3	Chloride Nitrite-N	6.40	5.443	5585402	319957
5	Bromide Nitrate-N	10.43	1.962	27528	1118
6	Phosphate-P	15.80	2.944	194956	5922
7	Sulfate	17.47	75.244	75274452	1965720



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-040-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/20/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	3.8	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

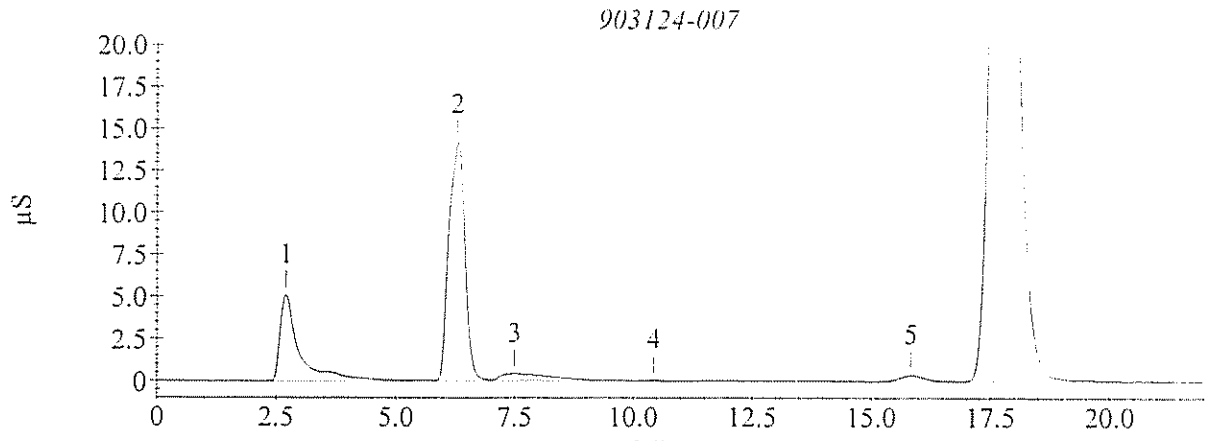
Sample Analysis Report

Sample Name : 903124-007
Data File Name : I:\ICDATA\IC500\090318\090318__089.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318I-300-0.met
Date Time Collected : 3/20/09 2:32:30 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.193	1455294	51084
2	Chloride	6.30	3.638	3309404	140216
	Nitrite-N				
4	Bromide	10.43	0.039	11164	576
	Nitrate-N				
5	Phosphate-P	15.83	0.293	134562	3518
6	Sulfate	17.70	27.097	19404867	552503



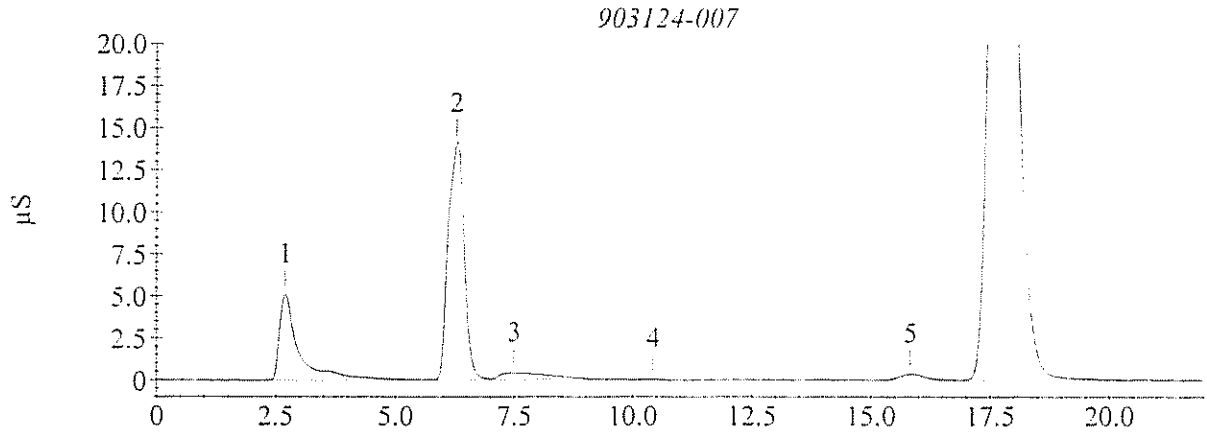
Sample Analysis Report

Sample Name : 903124-007
Data File Name : I:\ICDATA\IC500\090318\090318__089.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/20/09 2:32:30 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.70	0.000	1455294	51084
2	Chloride Nitrite-N	6.30	3.788	3309404	140216
4	Bromide Nitrate-N Phosphate-P	10.43	1.933	11164	576
6	Sulfate	17.70	20.651	19404867	552503



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-041-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	6.8	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

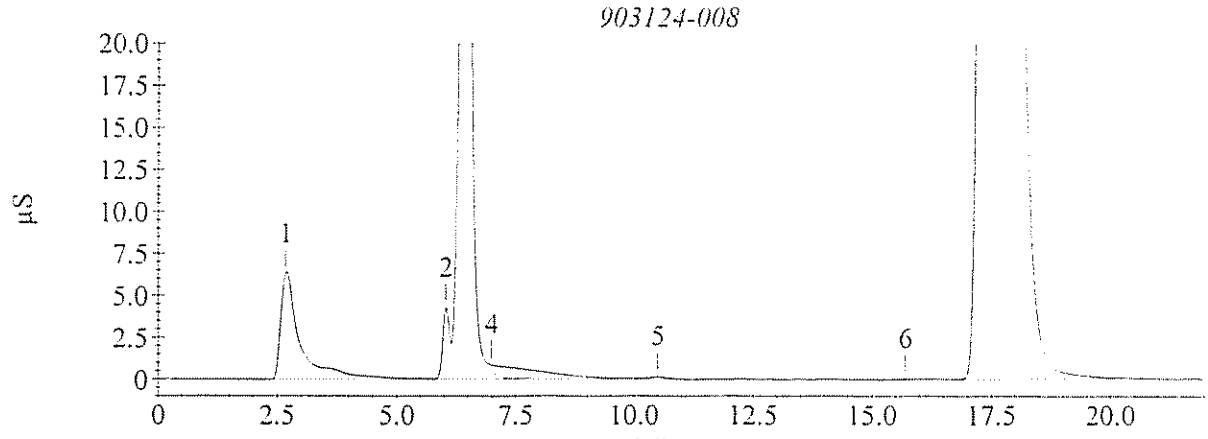
Sample Analysis Report

Sample Name : 903124-008
Data File Name : I:\ICDATA\IC500\090318\090318__079.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318I-300-0.met
Date Time Collected : 3/19/09 10:21:41 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1827254	62502
3	Chloride Nitrite-N	6.43	8.110	7394322	426353
5	Bromide Nitrate-N	10.50	0.085	28793	1247
6	Phosphate-P	15.70	0.054	5053	242
7	Sulfate	17.50	95.836	68613126	1814773



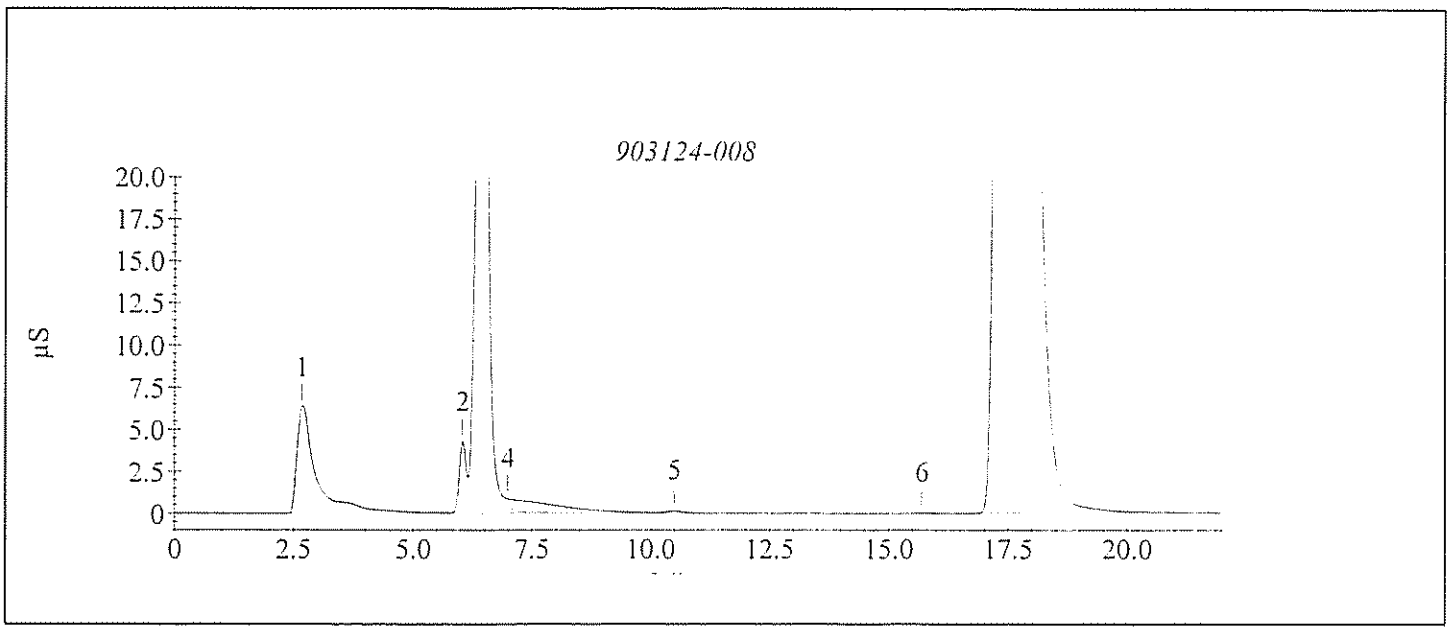
Sample Analysis Report

Sample Name : 903124-008
Data File Name : I:\ICDATA\IC500\090318\090318__079.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/19/09 10:21:41 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1827254	62502
3	Chloride Nitrite-N	6.43	6.758	7394322	426353
5	Bromide Nitrate-N	10.50	1.967	30419	1270
6	Phosphate-P	15.70	2.769	5053	242
7	Sulfate	17.50	68.735	68613126	1814773



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-042-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	0.10	U
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	8.3	

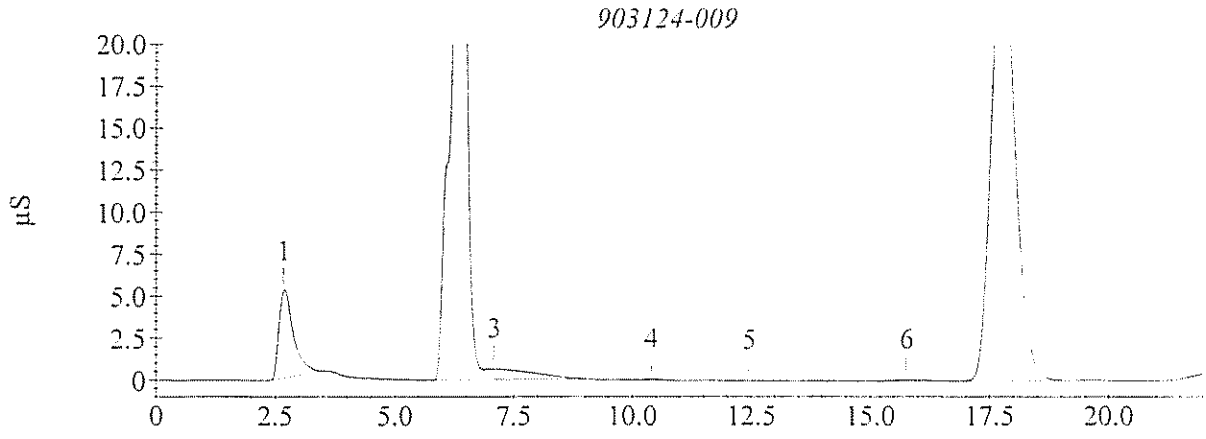
Sample Analysis Report

Sample Name : 903124-009
Data File Name : I:\ICDATA\IC500\090318\090318__082.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318l-300-0.met
Date Time Collected : 3/19/09 11:36:55 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1103827	51028
2	Chloride	6.37	10.511	9588191	472230
	Nitrite-N				
4	Bromide	10.40	0.042	12359	603
5	Nitrate-N	12.47	0.048	5489	250
6	Phosphate-P	15.77	0.085	21744	582
7	Sulfate	17.77	12.745	9130394	265559



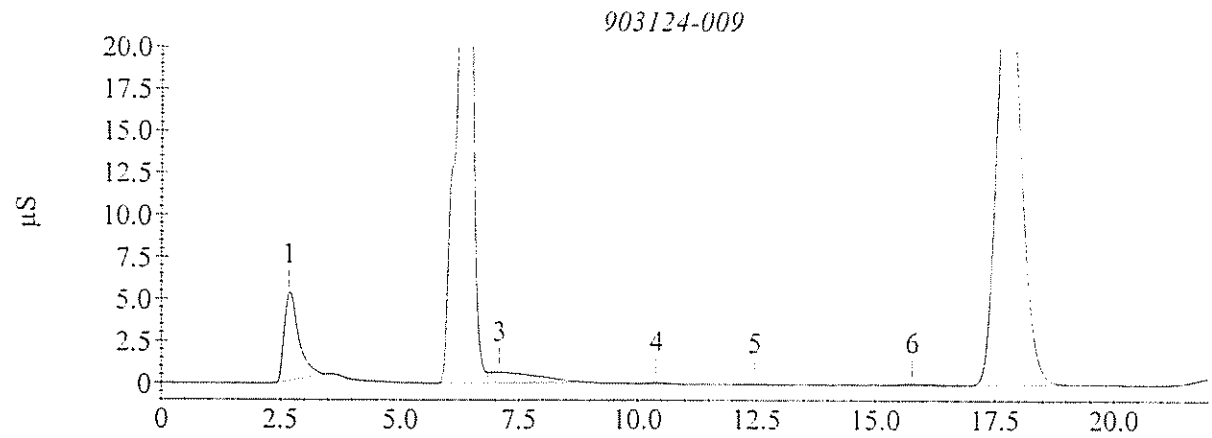
Sample Analysis Report

Sample Name : 903124-009
Data File Name : I:\ICDATA\IC500\090318\090318__082.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/19/09 11:36:55 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1103827	51028
2	Chloride	6.37	8.336	9565065	472230
	Nitrite-N				
4	Bromide	10.40	1.935	12359	603
	Nitrate-N				
6	Phosphate-P	15.77	2.784	21744	582
7	Sulfate	17.77	10.612	9130394	265559



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-043-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.6	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

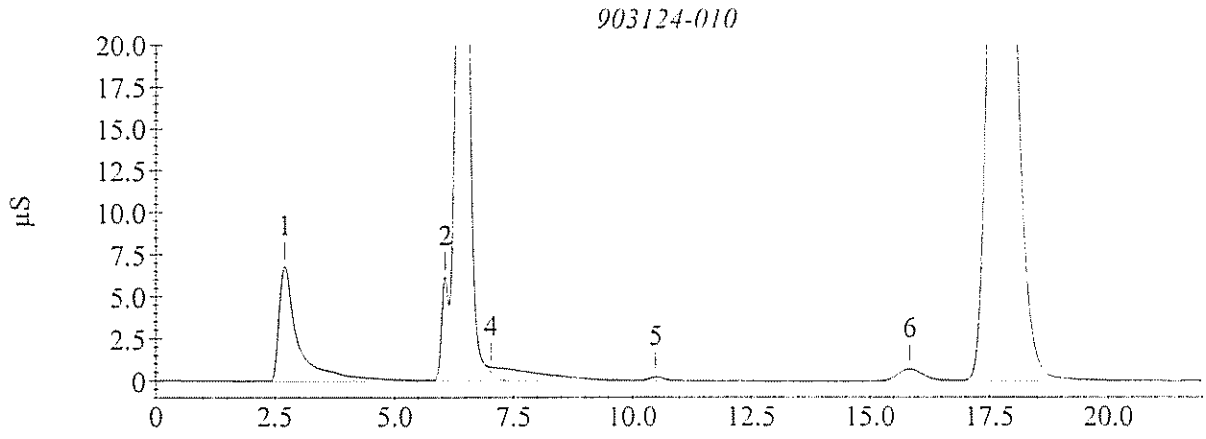
Sample Analysis Report

Sample Name : 903124-010
Data File Name : I:\ICDATA\IC500\090318\090318__077.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318l-300-0.met
Date Time Collected : 3/19/09 9:31:33 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.70	1.575	1924613	67919
3	Chloride	6.43	9.433	8603232	478989
	Nitrite-N				
5	Bromide	10.50	0.144	51004	2138
	Nitrate-N				
6	Phosphate-P	15.83	0.562	279966	7253
7	Sulfate	17.73	24.628	17637218	492282



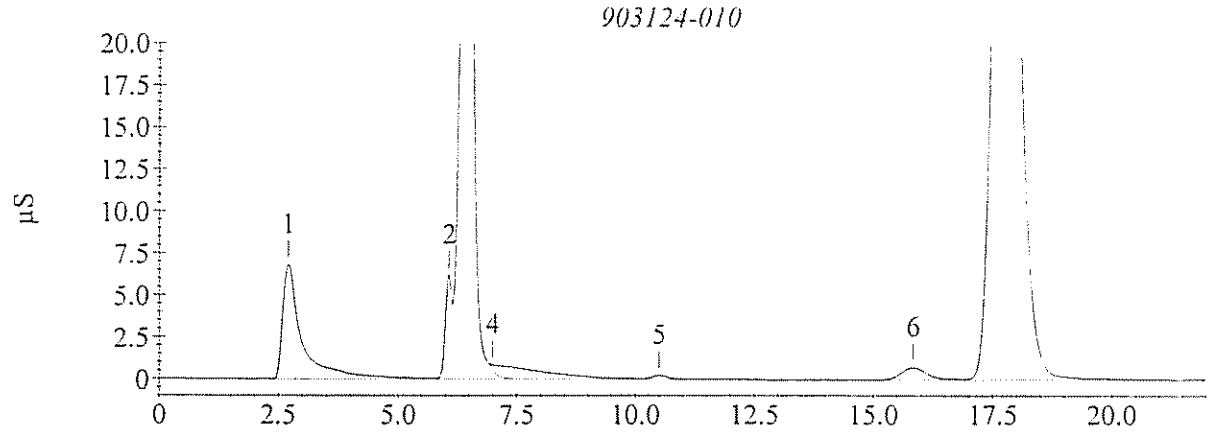
Sample Analysis Report

Sample Name : 903124-010
Data File Name : I:\ICDATA\IC500\090318\090318__077.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/19/09 9:31:33 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.70	0.000	1924613	67919
3	Chloride Nitrite-N	6.43	7.625	8586619	478989
5	Bromide Nitrate-N Phosphate-P	10.50	2.002	50593	2133
7	Sulfate	17.73	18.924	17637218	492282



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-044-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/20/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.4	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

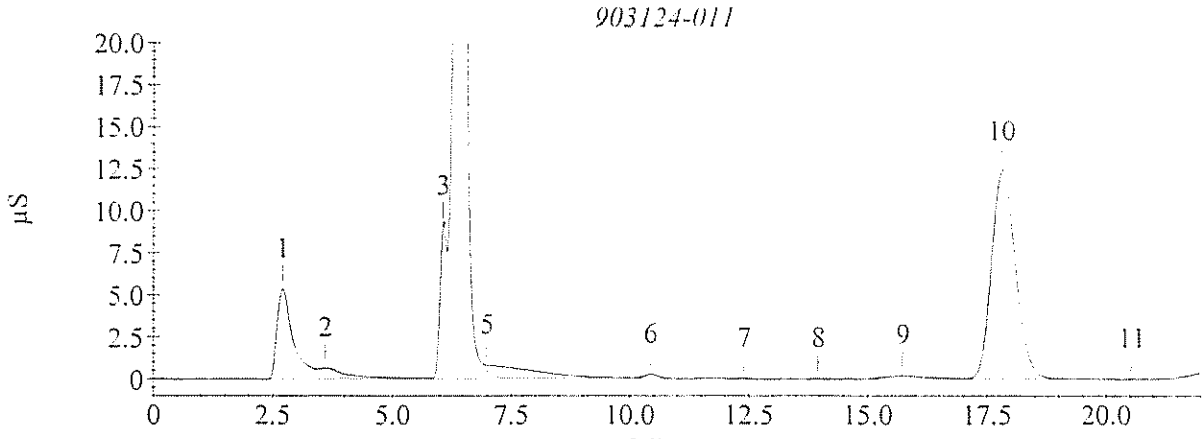
Sample Analysis Report

Sample Name : 903124-011
Data File Name : I:\ICDATA\IC500\090318\090318__087.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318I-300-0.met
Date Time Collected : 3/20/09 1:42:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.163	188644	3813
4	Chloride	6.40	10.661	9725313	548196
	Nitrite-N				
6	Bromide	10.43	0.136	47860	2306
7	Nitrate-N	12.40	0.049	7493	364
9	Phosphate-P	15.73	0.232	101591	1744
10	Sulfate	17.80	6.029	4322281	123028



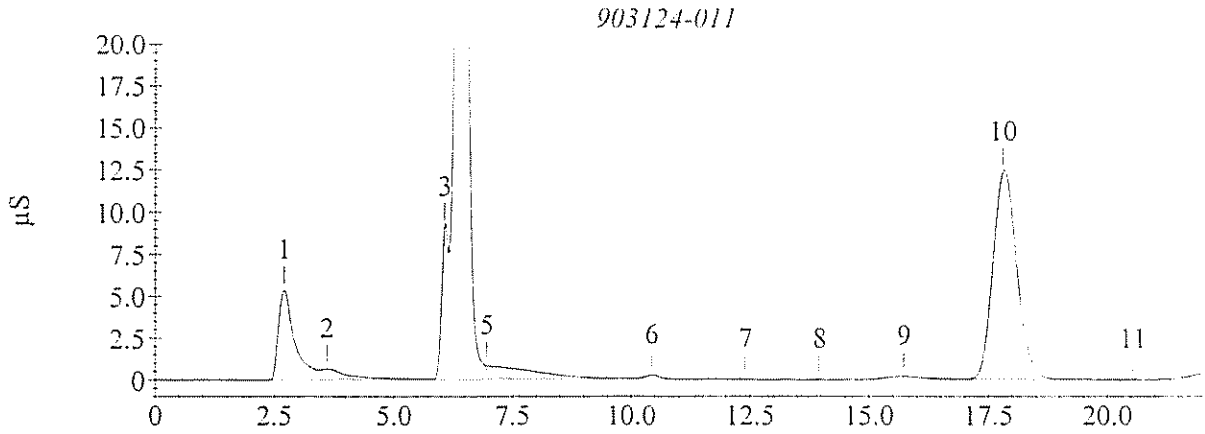
Sample Analysis Report

Sample Name : 903124-011
Data File Name : I:\ICDATA\IC500\090318\090318__087.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/20/09 1:42:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.60	0.737	188644	3813
4	Chloride	6.40	8.443	9711789	548196
	Nitrite-N				
6	Bromide	10.43	1.997	47860	2306
	Nitrate-N				
9	Phosphate-P	15.73	2.858	101591	1744
10	Sulfate	17.80	5.913	4322281	123028



C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLLP

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC | Client: CH2M Hill

Work-Order # 903124 | STD Solution ID: 45325/45405

3/18/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL4	Chloride	1.25	1.24	99.3	90 - 110%
	Nitrite-N	1.25	1.21	96.5	90 - 110%
	Nitrate-N	1.25	1.31	105	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL5	Chloride	1.25	1.23	98.4	90 - 110%
	Nitrite-N	1.25	1.25	100	90 - 110%
	Nitrate-N	1.25	1.21	96.9	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL6	Chloride	1.25	1.25	100	90 - 110%
	Nitrite-N	1.25	1.27	102	90 - 110%
	Nitrate-N	1.25	1.22	97.4	90 - 110%

3/30/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVL	Chloride	1.25	1.24	98.9	90 - 110%
	Nitrite-N	1.25	1.23	98.3	90 - 110%
	Nitrate-N	1.25	1.22	97.7	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	Chloride	1.25	1.26	101	90 - 110%
	Nitrite-N	1.25	1.25	100	90 - 110%
	Nitrate-N	1.25	1.21	97.0	90 - 110%

3/18/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	Chloride	20.0	20.5	103	90 - 110%
	Nitrate-N	20.0	22.3	112*	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH5	Chloride	20.0	19.2	96.0	90 - 110%
	Nitrate-N	20.0	19.5	97.7	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH6	Chloride	20.0	19.2	96.2	90 - 110%
	Nitrate-N	20.0	19.6	97.8	90 - 110%

3/30/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVH	Chloride	20.0	20.3	101	90 - 110%
	Nitrate-N	20.0	20.2	101	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	Chloride	20.0	20.2	101	90 - 110%
	Nitrate-N	20.0	20.2	101	90 - 110%

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.67 min	1.00 min	
Chloride	6.20 min	1.00 min	
Nitrite-N	7.83 min	1.00 min	
Bromide	10.33 min	1.00 min	
Nitrate-N	12.20 min	1.00 min	
Phosphate-P	15.67 min	5.00 min	
Sulfate	17.80 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.67 min	0	0
Chloride	6.20 min	0	0
Nitrite-N	7.83 min	0	0
Bromide	10.33 min	0	0
Nitrate-N	12.20 min	0	0
Phosphate-P	15.67 min	0	0
Sulfate	17.80 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.67 min	Linear	Ignore	Area		0.00
Chloride	6.20 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	7.83 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.33 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.20 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.67 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.80 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	21958
2	0.10	135267
3	0.25	287985
4	0.50	546281
5	1.00	1.21146e+006
6	2.50	3.07327e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	104137
3	0.25	210975
4	0.50	423601
5	1.00	886345
6	2.50	2.27702e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 7.83 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	62855.3
2	0.10	238116
3	0.25	487595
4	0.50	880655
5	1.00	1.79323e+006
6	2.50	4.50791e+006

CD20 Component = Bromide Levels Table

Retention Time : 10.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	36053.3
3	0.25	87423.9
4	0.50	184692
5	1.00	378819
6	2.50	940431

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	198696
3	0.25	532712
4	0.50	1.03372e+006
5	1.00	2.36629e+006
6	2.50	6.12422e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	8388.6
2	0.10	29693.1
3	0.25	120423
4	0.50	216150
5	1.00	493533
6	2.50	1.34148e+006

CD20 Component = Sulfate Levels Table

Retention Time : 17.80 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	79015.6
3	0.25	193779
4	0.50	348721
5	1.00	729749
6	2.50	1.79531e+006

CD20 XY Data Parameters

Calibration Update Report

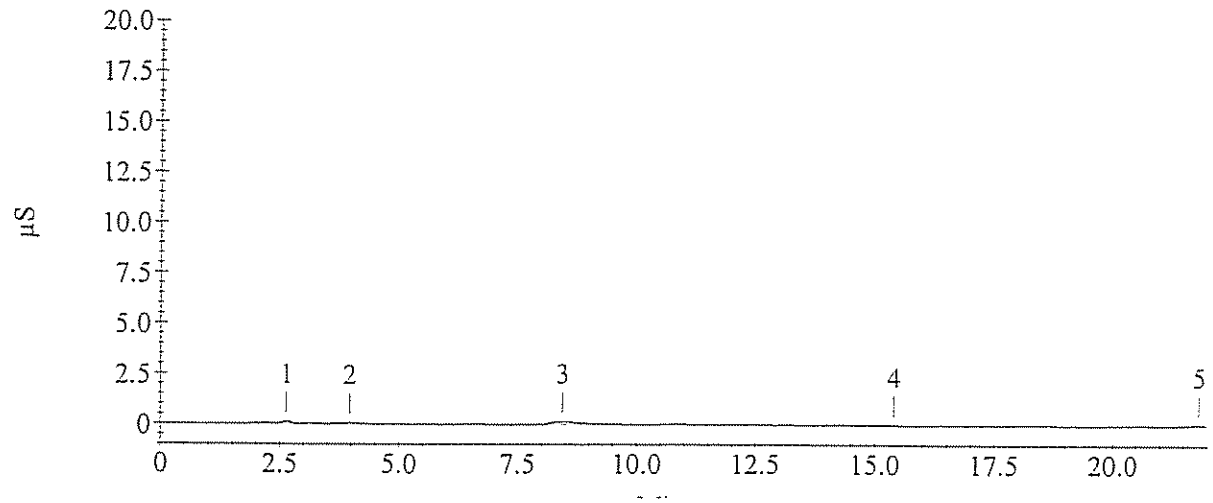
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\090318\090318__005.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:30:43 PM
Calibration Date : 3/19/09 9:53:29 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride Chloride	3.97	4957	21958	21958
3	Nitrite-N Bromide Nitrate-N	8.43	13027	62855	62855
4	Phosphate-P Sulfate	15.40	7303	8389	8389

STD 1 - BLK



Calibration Update Report

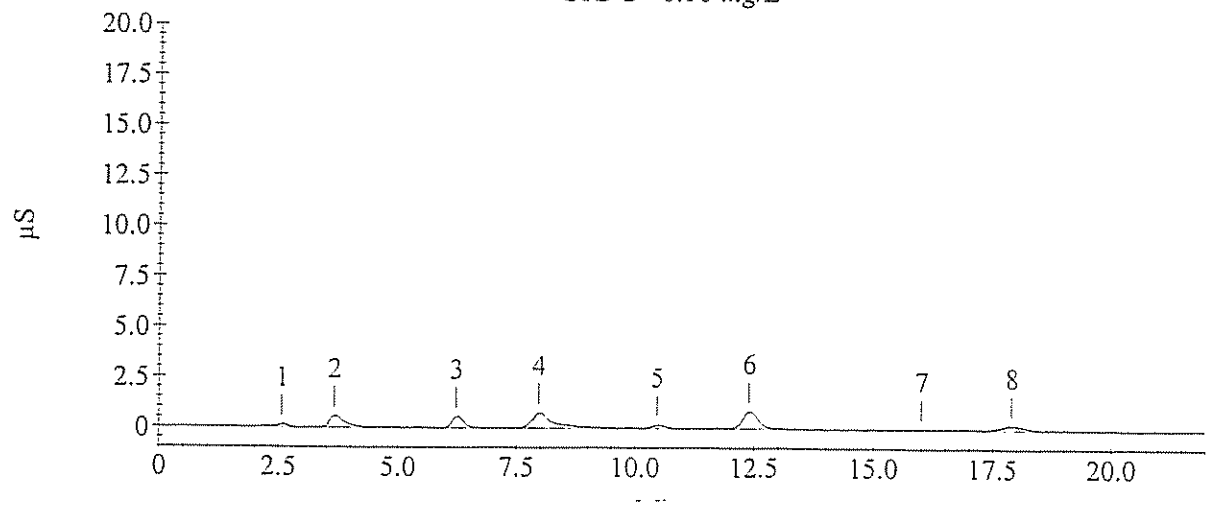
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__006.DXD

Method File Name : H:\icdata\methods\method 300\0903181-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:55:47 PM
Calibration Date : 3/19/09 10:00:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	109547	135267	135267
3	Chloride	6.23	77116	104137	104137
4	Nitrite-N	7.97	159558	238116	238116
5	Bromide	10.47	38327	36053	36053
6	Nitrate-N	12.40	205502	198696	198696
7	Phosphate-P	16.00	67440	29693	29693
8	Sulfate	17.90	53957	79016	79016

STD 2 - 0.10 mg/L



Calibration Update Report

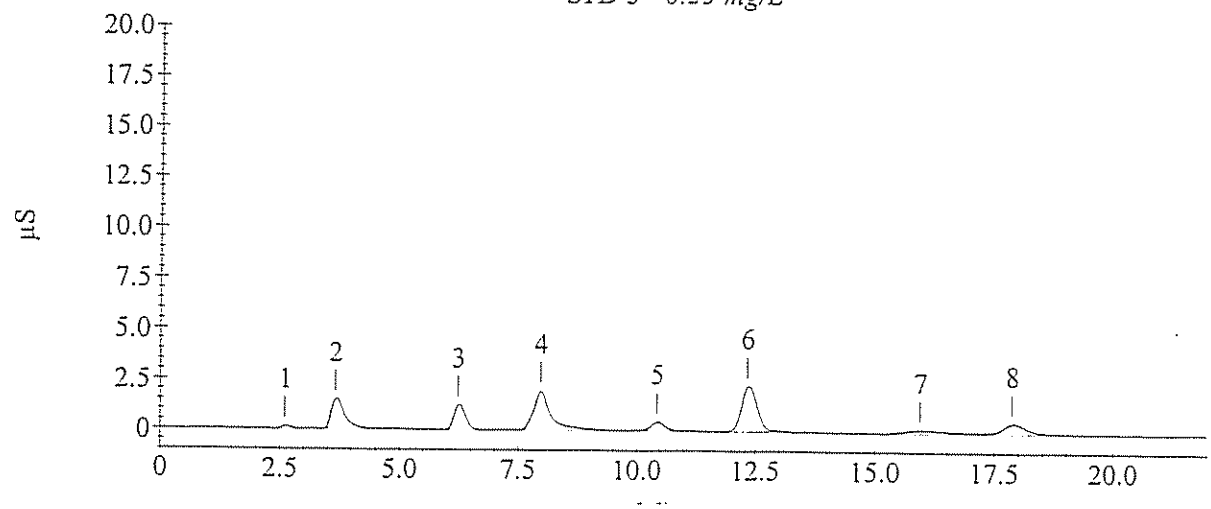
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__007.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:20:51 PM
Calibration Date : 3/19/09 9:16:23 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	277132	287985	287985
3	Chloride	6.23	197410	210975	210975
4	Nitrite-N	7.97	359105	487595	487595
5	Bromide	10.43	88554	87424	87424
6	Nitrate-N	12.33	506529	532712	532712
7	Phosphate-P	15.93	165945	120423	120423
8	Sulfate	17.87	139751	193779	193779

STD 3 - 0.25 mg/L



Calibration Update Report

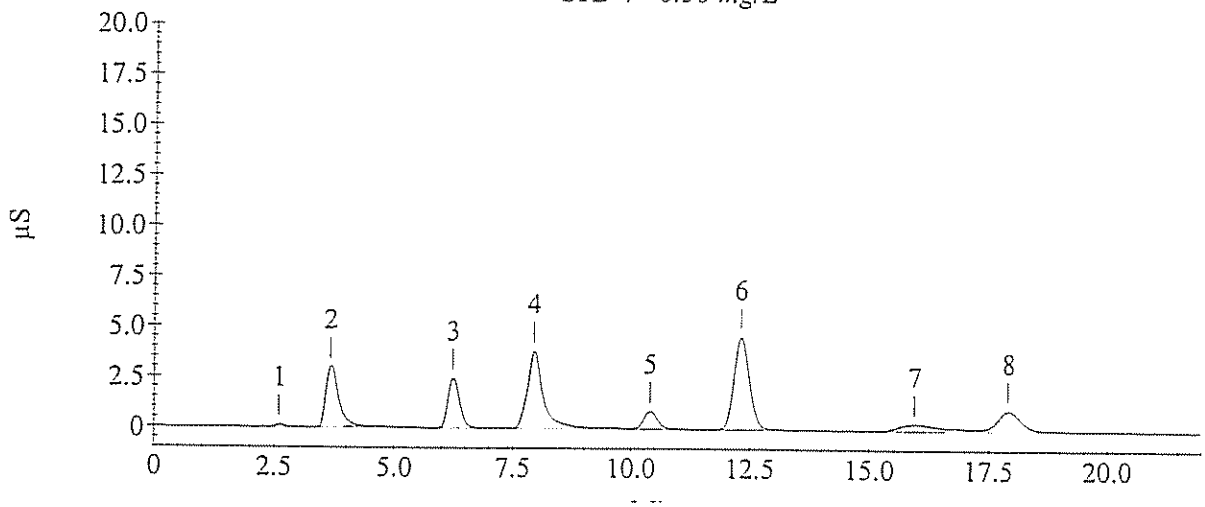
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__008.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:45:56 PM
Calibration Date : 3/19/09 9:16:47 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	557311	546281	546281
3	Chloride	6.23	408470	423601	423601
4	Nitrite-N	7.93	820570	880655	880655
5	Bromide	10.40	165498	184692	184692
6	Nitrate-N	12.30	970676	1033717	1033717
7	Phosphate-P	15.93	353067	216150	216150
8	Sulfate	17.90	274835	348721	348721

STD 4 - 0.50 mg/L



Calibration Update Report

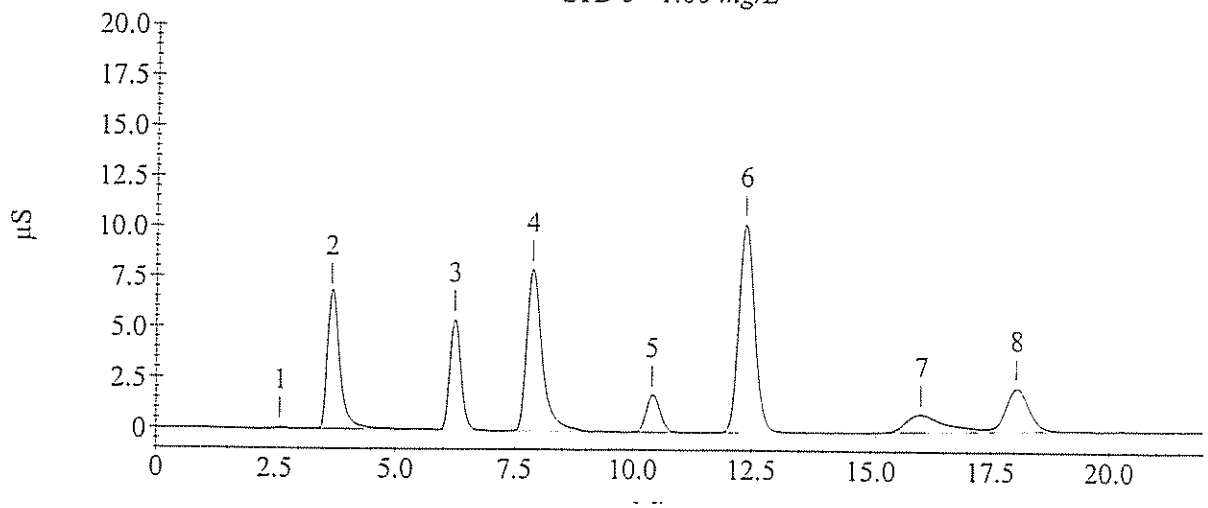
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__009.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:11:03 PM
Calibration Date : 3/19/09 9:17:01 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	1241286	1211455	1211455
3	Chloride	6.23	836176	886345	886345
4	Nitrite-N	7.87	1743424	1793231	1793231
5	Bromide	10.40	356395	378819	378819
6	Nitrate-N	12.37	2165069	2366291	2366291
7	Phosphate-P	16.03	734622	493533	493533
8	Sulfate	18.03	612643	729749	729749

STD 5 - 1.00 mg/L



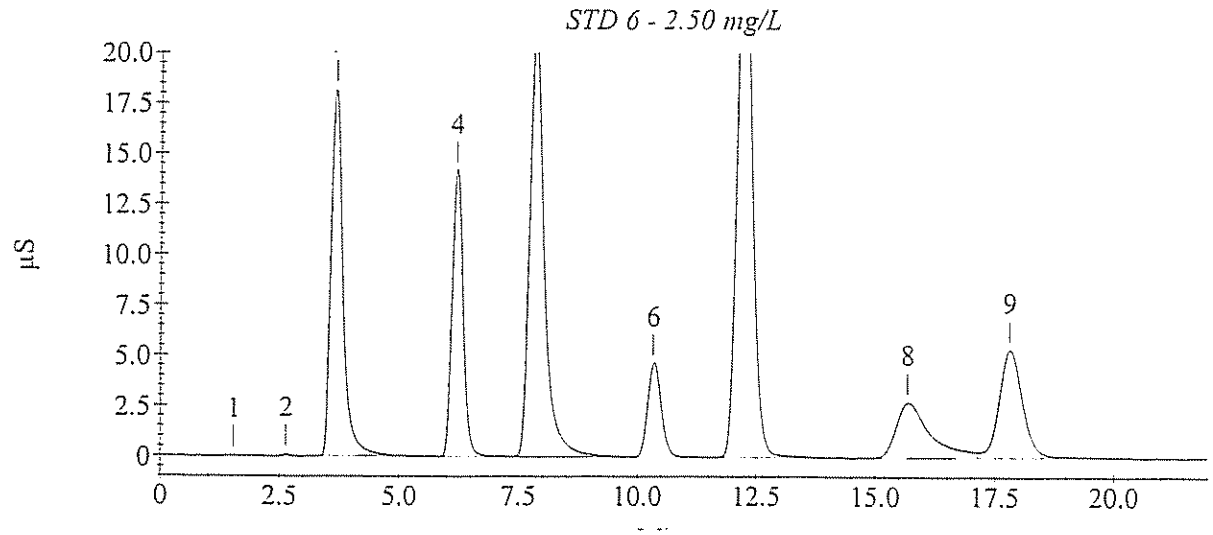
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__010.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:36:08 PM
Calibration Date : 3/19/09 9:17:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.67	3200757	3073266	3073266
4	Chloride	6.20	2128443	2277017	2277017
5	Nitrite-N	7.83	4384638	4507913	4507913
6	Bromide	10.33	912041	940431	940431
7	Nitrate-N	12.20	6057211	6124224	6124224
8	Phosphate-P	15.67	1937708	1341477	1341477
9	Sulfate	17.80	1520461	1795309	1795309



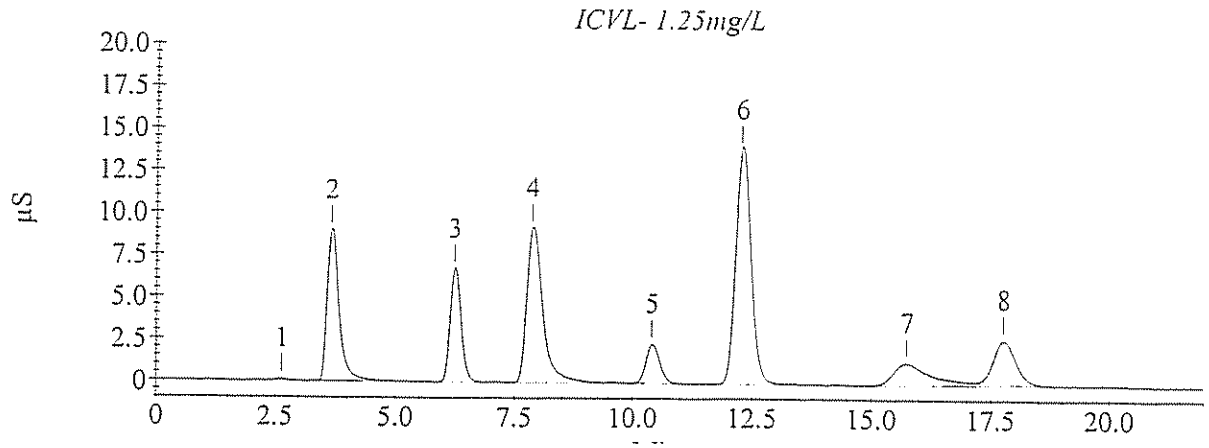
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__017.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/18/09 6:31:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.283	1565911	89179
3	Chloride	6.23	1.228	1107725	66995
4	Nitrite-N	7.87	1.169	2120349	91415
5	Bromide	10.40	1.243	466511	23016
6	Nitrate-N	12.27	1.307	3138229	138573
7	Phosphate-P	15.73	1.340	701225	13082
8	Sulfate	17.77	1.256	905537	26377



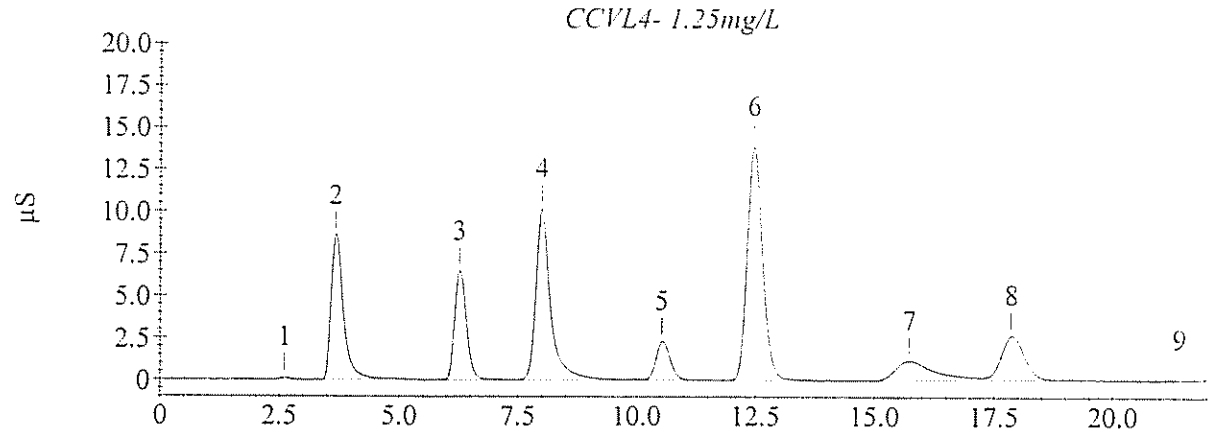
Sample Analysis Report

Sample Name : CCVL4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__069.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/19/09 6:10:54 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.252	1527641	84961
3	Chloride	6.27	1.241	1119338	64077
4	Nitrite-N	8.00	1.206	2185117	101260
5	Bromide	10.53	1.252	470063	22596
6	Nitrate-N	12.47	1.311	3148602	138354
7	Phosphate-P	15.73	1.266	661248	11562
8	Sulfate	17.87	1.226	884043	26061



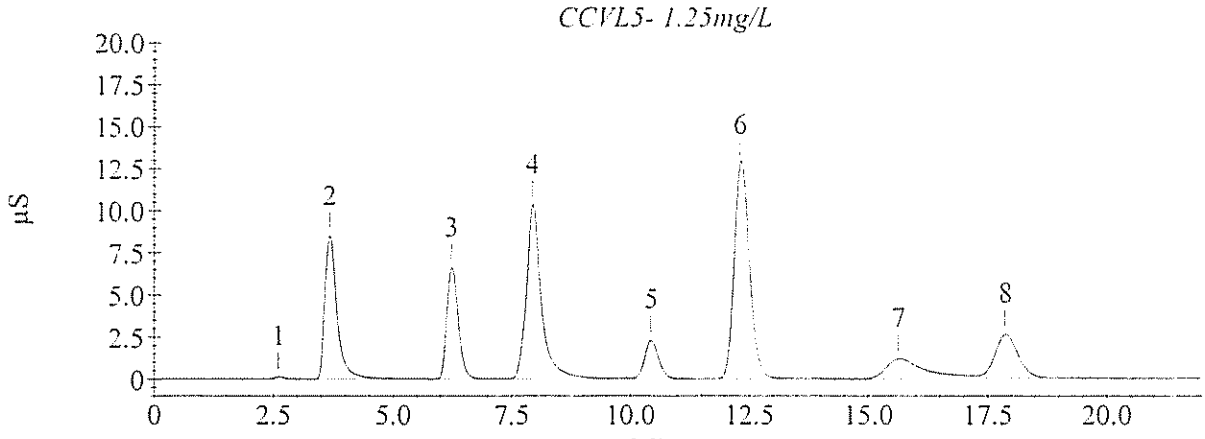
Sample Analysis Report

Sample Name : CCVL5- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__083.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/20/09 12:02:00 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.231	1501750	84233
3	Chloride	6.23	1.230	1109631	65603
4	Nitrite-N	7.93	1.246	2256803	102863
5	Bromide	10.43	1.269	476184	23013
6	Nitrate-N	12.30	1.211	2899459	126558
7	Phosphate-P	15.63	1.274	665210	11776
8	Sulfate	17.87	1.207	870814	25849



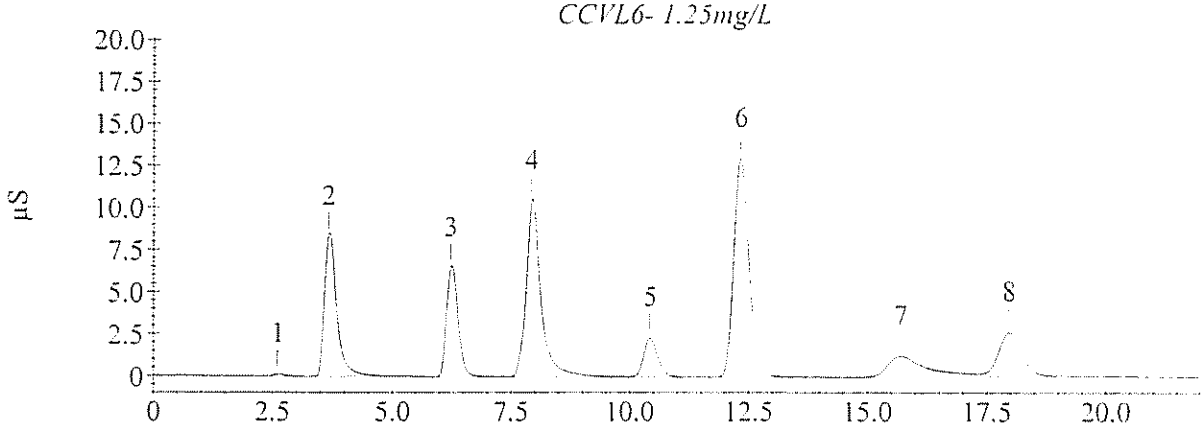
Sample Analysis Report

Sample Name : CCVL6- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__093.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/20/09 4:12:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.240	1512643	82958
3	Chloride	6.23	1.252	1129015	64740
4	Nitrite-N	7.93	1.269	2297195	104371
5	Bromide	10.43	1.275	478713	23249
6	Nitrate-N	12.33	1.218	2916243	129805
7	Phosphate-P	15.70	1.377	721233	12554
8	Sulfate	17.97	1.265	911786	26450



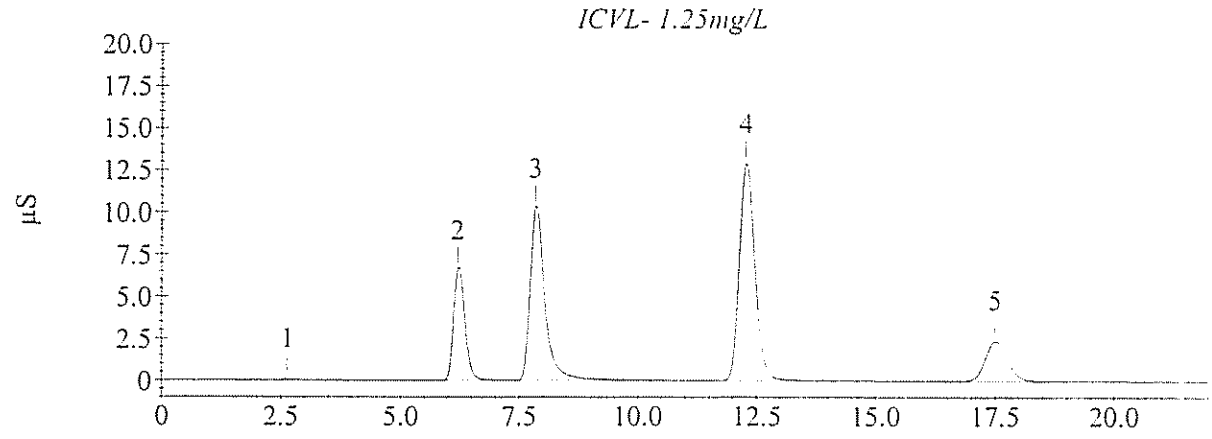
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__002.DXD

Method File Name : h:\icdata\methods\method 300\090318i-300-0.met
Date Time Collected : 3/30/09 5:01:22 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	9997	569
2	Chloride	6.20	1.236	1114816	64847
3	Nitrite-N Bromide	7.83	1.229	2225878	101293
4	Nitrate-N Phosphate-P	12.27	1.221	2923807	127937
5	Sulfate	17.50	1.090	786840	23760



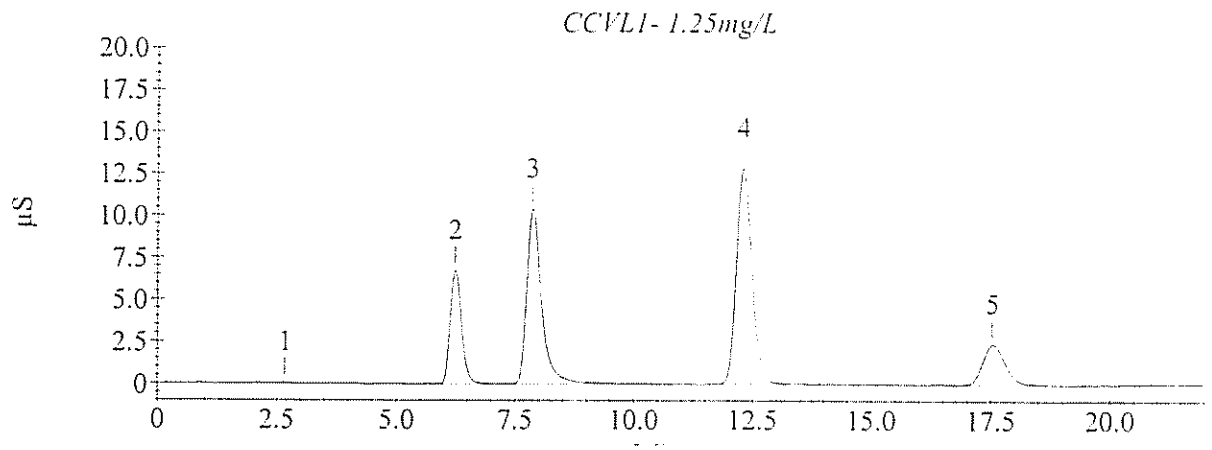
Sample Analysis Report

Sample Name : CCVL1- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__015.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/30/09 10:25:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	5538	485
2	Chloride	6.23	1.258	1134603	67089
3	Nitrite-N Bromide	7.87	1.246	2256217	103754
4	Nitrate-N Phosphate-P	12.30	1.213	2904837	128028
5	Sulfate	17.53	1.090	786906	23916



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

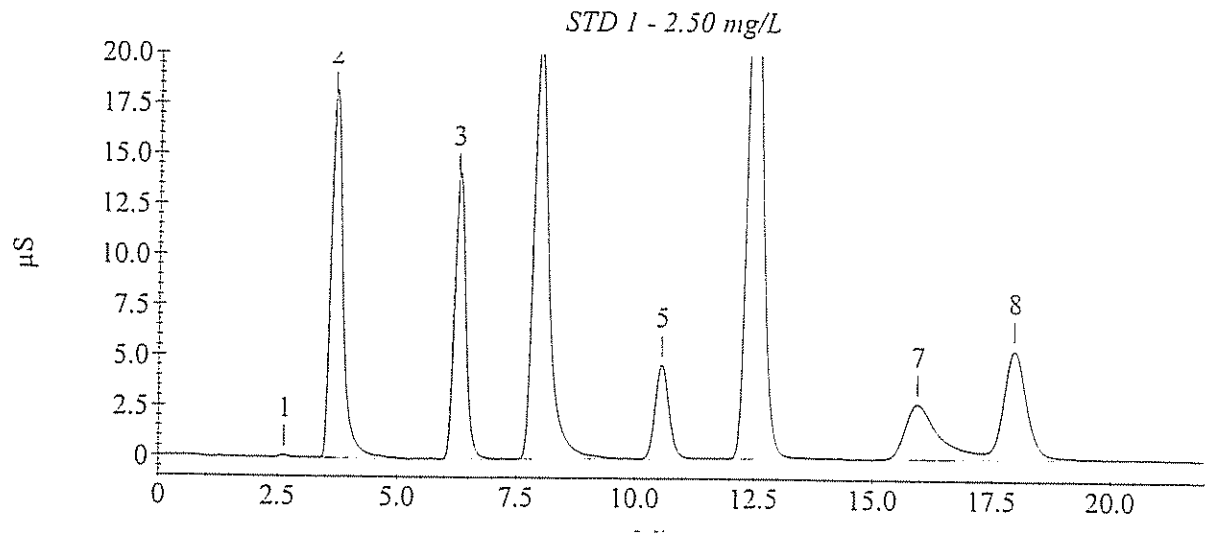
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



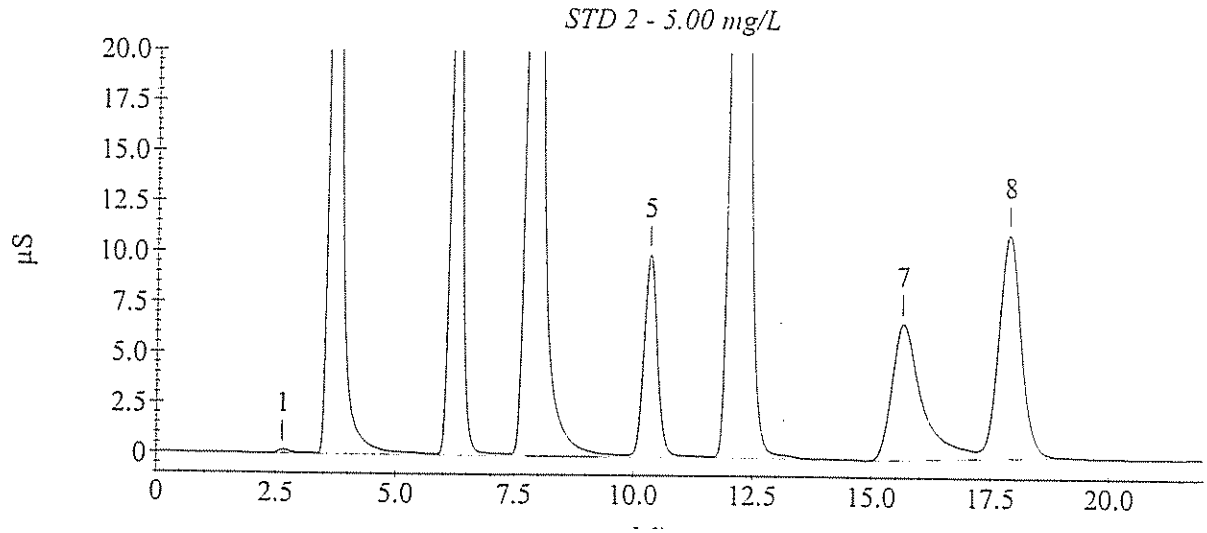
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077



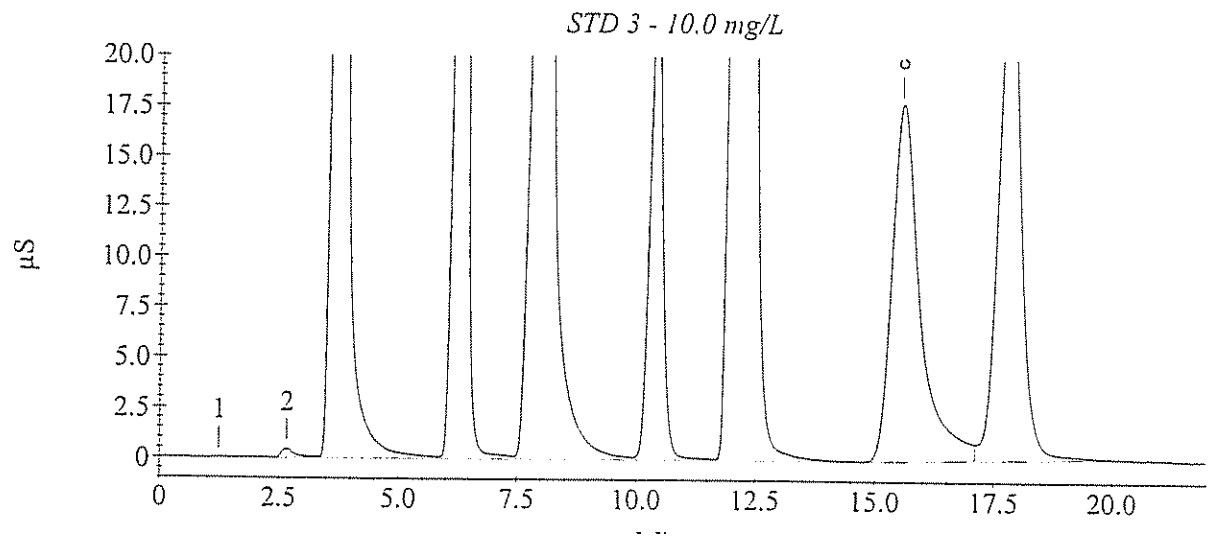
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944



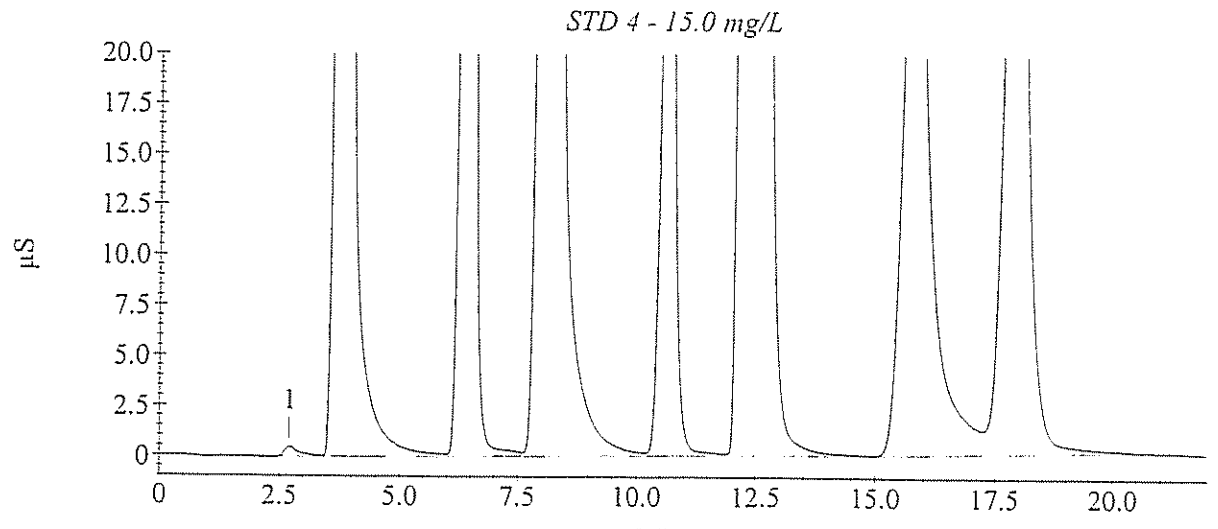
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



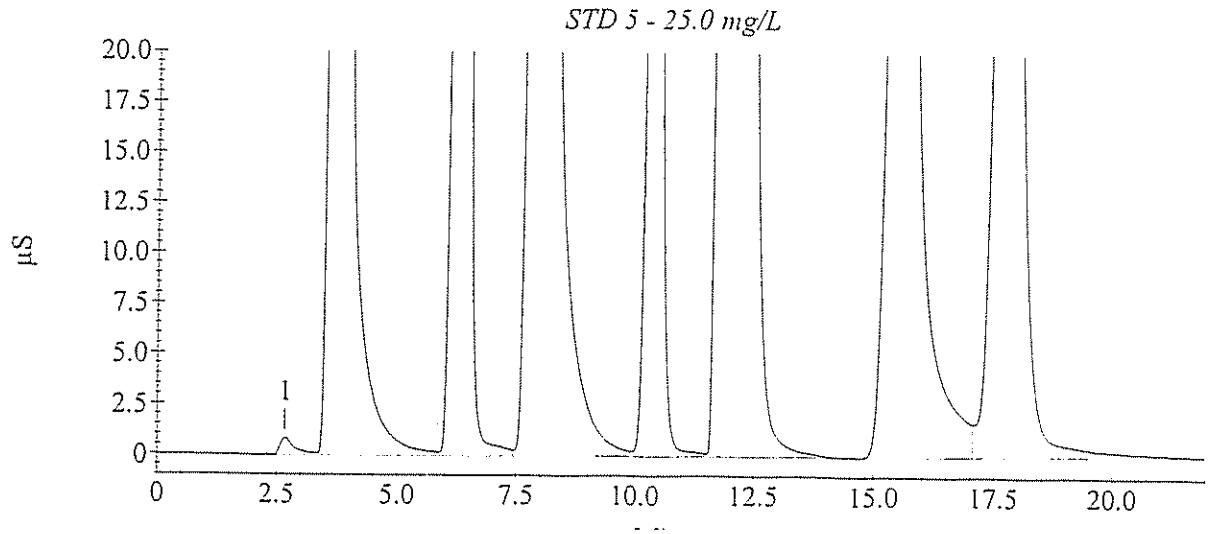
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



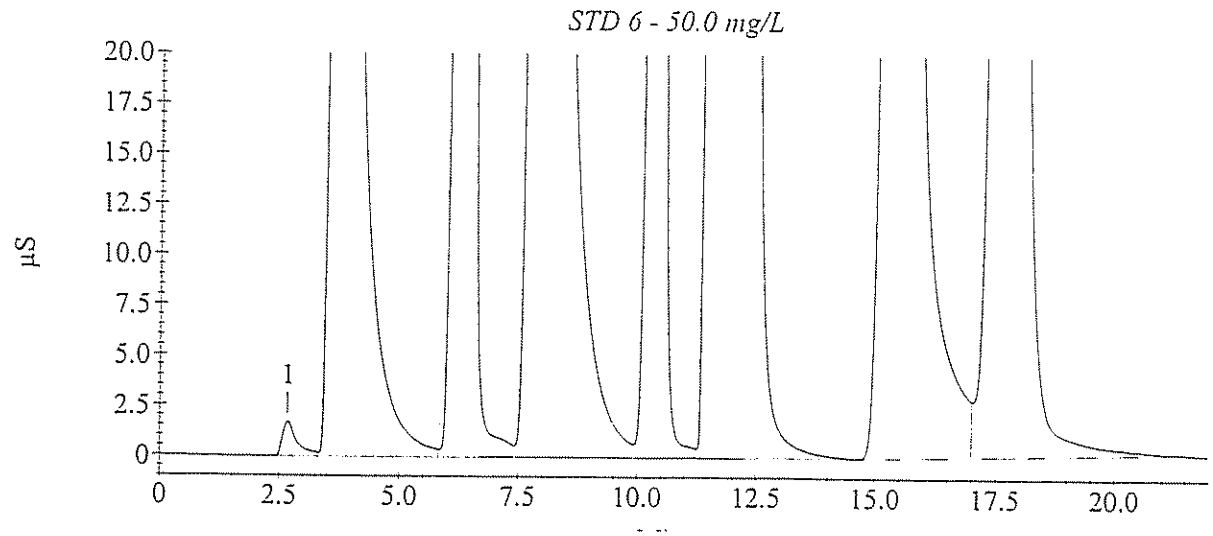
Calibration Update Report

Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829



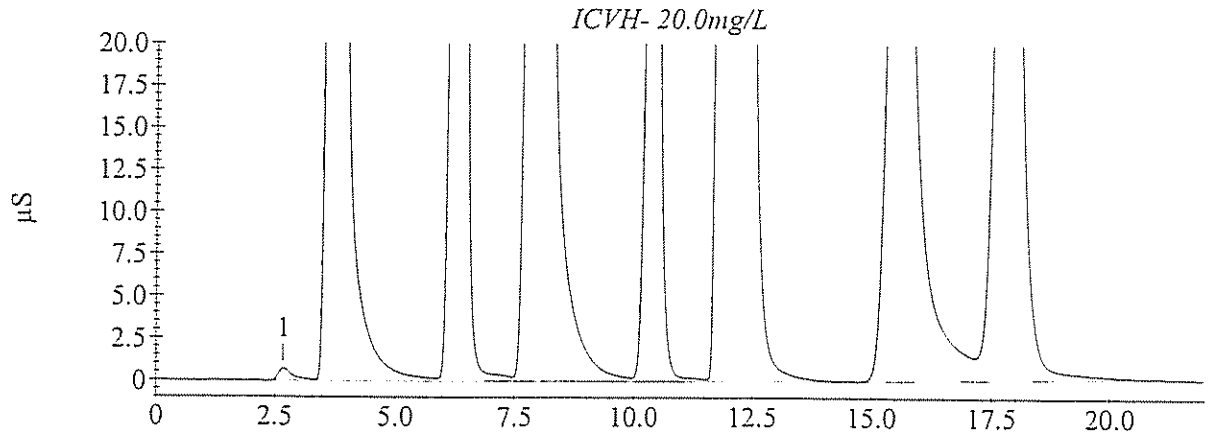
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



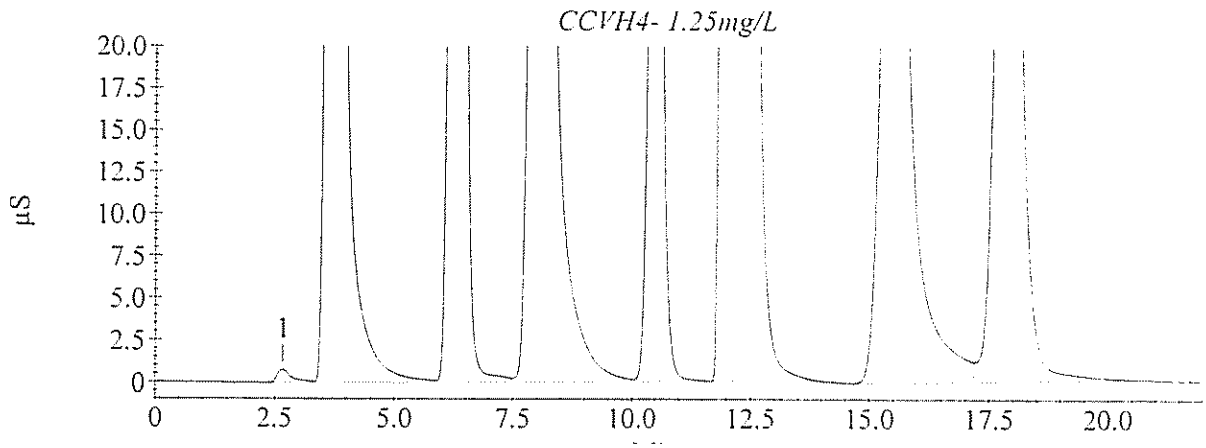
Sample Analysis Report

Sample Name : CCVH4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__070.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/19/09 6:35:59 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	21.091	29207590	1425211
3	Chloride	6.30	20.517	26317478	1437686
4	Nitrite-N	8.07	25.888	36821309	1587946
5	Bromide	10.47	19.936	10362459	573695
6	Nitrate-N	12.00	22.340	75176502	2489873
7	Phosphate-P	15.47	20.058	18743158	496916
8	Sulfate	17.83	20.179	18921965	580441



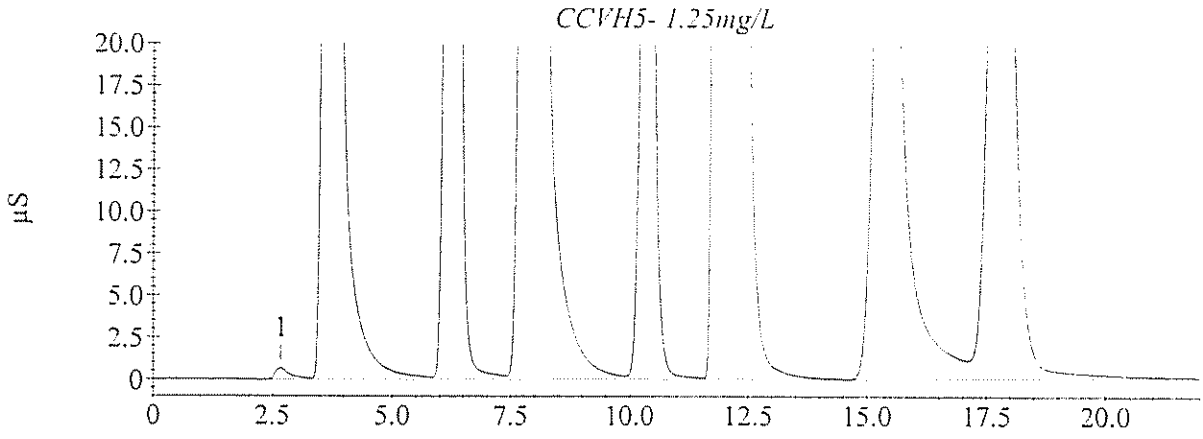
Sample Analysis Report

Sample Name : CCVH5- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__084.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/20/09 12:27:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	19.330	26977573	1379507
3	Chloride	6.23	19.193	24495378	1455009
4	Nitrite-N	8.00	26.189	37209497	1337235
5	Bromide	10.33	18.568	9575713	521131
6	Nitrate-N	11.90	19.539	65265056	2270088
7	Phosphate-P	15.33	18.774	17351243	475868
8	Sulfate	17.73	18.733	17441575	529830



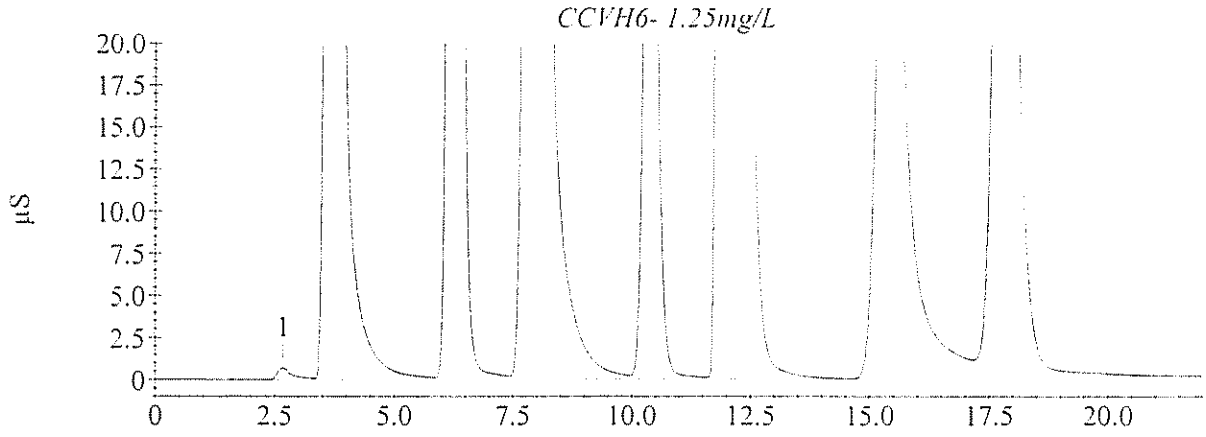
Sample Analysis Report

Sample Name : CCVH6- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__094.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/20/09 4:37:54 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	19.403	27071133	1354568
3	Chloride	6.27	19.245	24567918	1449312
4	Nitrite-N	8.00	26.003	36969470	1496949
5	Bromide	10.37	18.661	9629054	525372
6	Nitrate-N	11.93	19.550	65302572	2280816
7	Phosphate-P	15.37	18.824	17405620	471689
8	Sulfate	17.80	18.599	17304970	533572



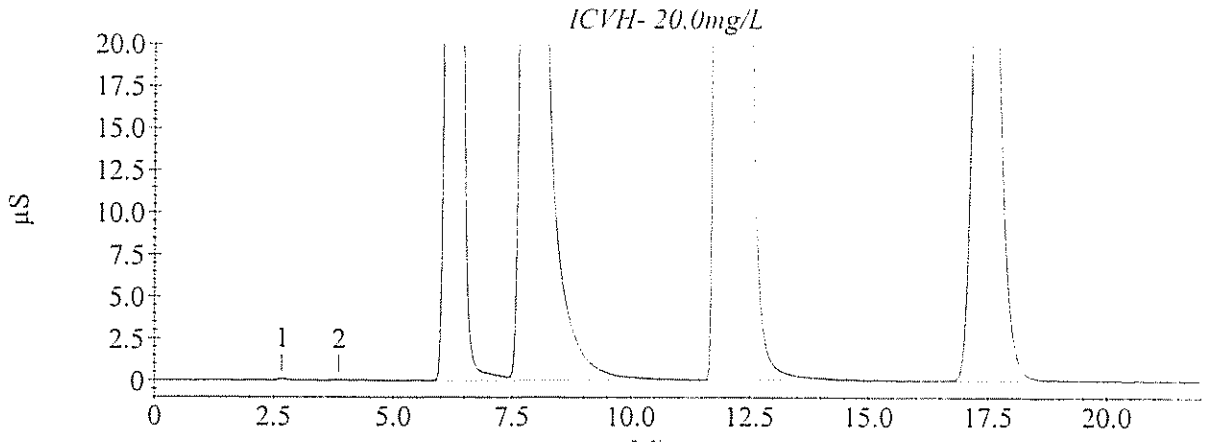
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__003.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/30/09 5:26:21 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.87	0.626	5039	330
3	Chloride	6.27	20.279	25989547	1608966
4	Nitrite-N Bromide	7.87	26.713	37883822	1626345
5	Nitrate-N Phosphate-P	11.90	20.193	67577828	2299168
6	Sulfate	17.40	17.387	16064747	524215



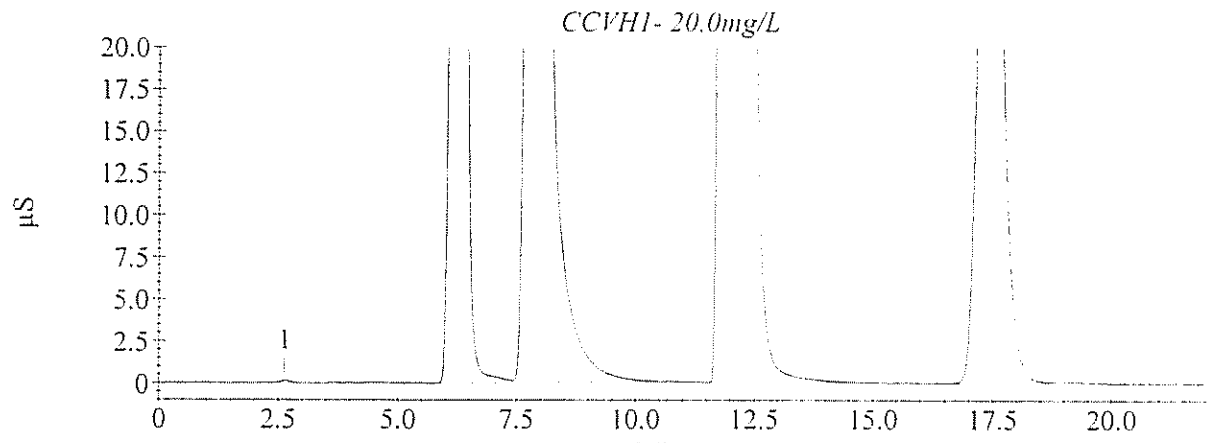
Sample Analysis Report

Sample Name : CCVH1- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/30/09 10:50:36 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	18172	1292
2	Chloride	6.27	20.229	25921103	1597396
3	Nitrite-N Bromide	7.87	26.705	37873038	1622801
4	Nitrate-N Phosphate-P	11.90	20.204	67615911	2304509
5	Sulfate	17.40	17.340	16016482	523187



D. Raw QC Data

1. Extraction Logsheet (where applicable)

2. Injection Logsheet (where applicable)

GPL Laboratories, LLLP

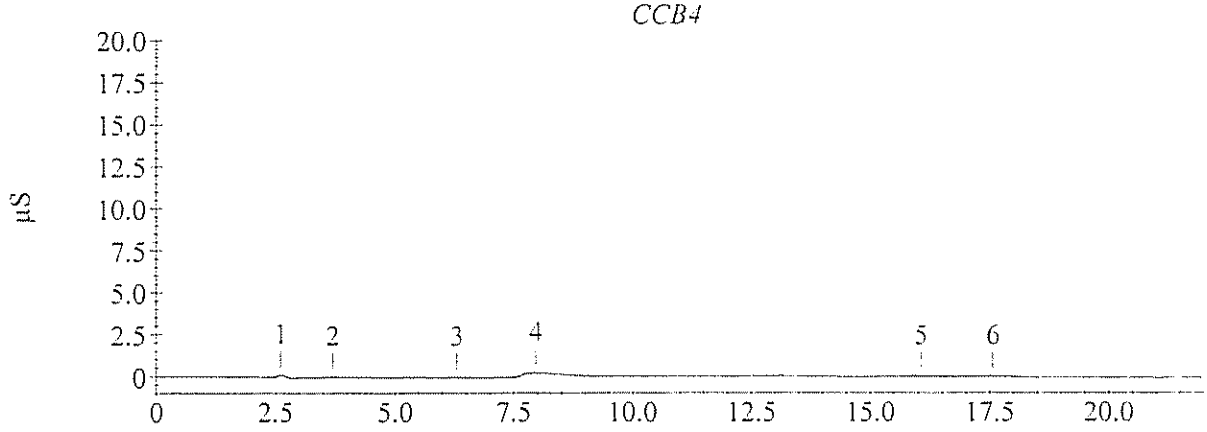
Sample Analysis Report

Sample Name : CCB4
Data File Name : I:\ICDATA\IC500\090318\090318__071.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/19/09 7:01:04 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	0.025	19196	426
3	Chloride	6.30	0.027	10271	471
4	Nitrite-N Bromide Nitrate-N	7.97	0.063	149684	2547
5	Phosphate-P	16.07	0.071	14581	409
6	Sulfate	17.57	0.009	13124	375



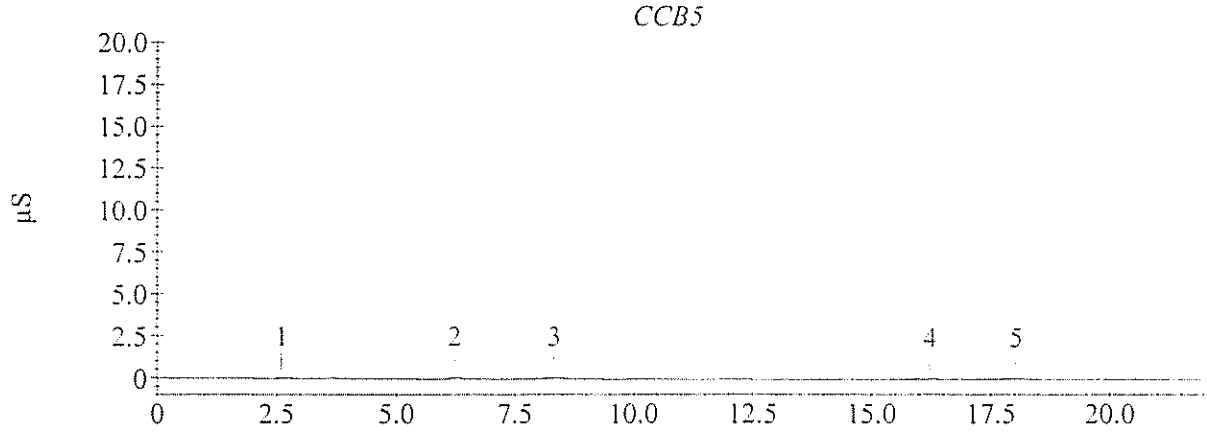
Sample Analysis Report

Sample Name : CCB5
Data File Name : I:\ICDATA\IC500\090318\090318__085.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/20/09 12:52:09 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.60	0.000	9704	641
2	Chloride	6.23	0.034	16669	974
3	Nitrite-N Bromide Nitrate-N	8.33	-0.011	16247	633
4	Phosphate-P	16.23	0.070	13527	201
5	Sulfate	18.03	0.003	9007	276



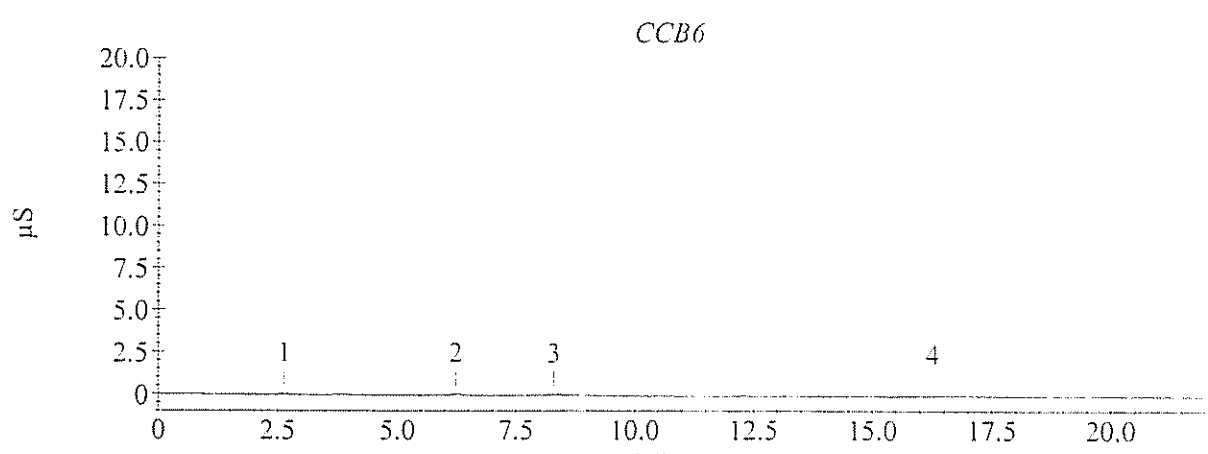
Sample Analysis Report

Sample Name : CCB6
Data File Name : I:\ICDATA\IC500\090318\090318__095.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/20/09 5:02:58 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	12317	659
2	Chloride	6.23	0.033	15465	913
3	Nitrite-N Bromide Nitrate-N	8.30	-0.011	16810	587
4	Phosphate-P Sulfate	16.27	0.074	15741	257



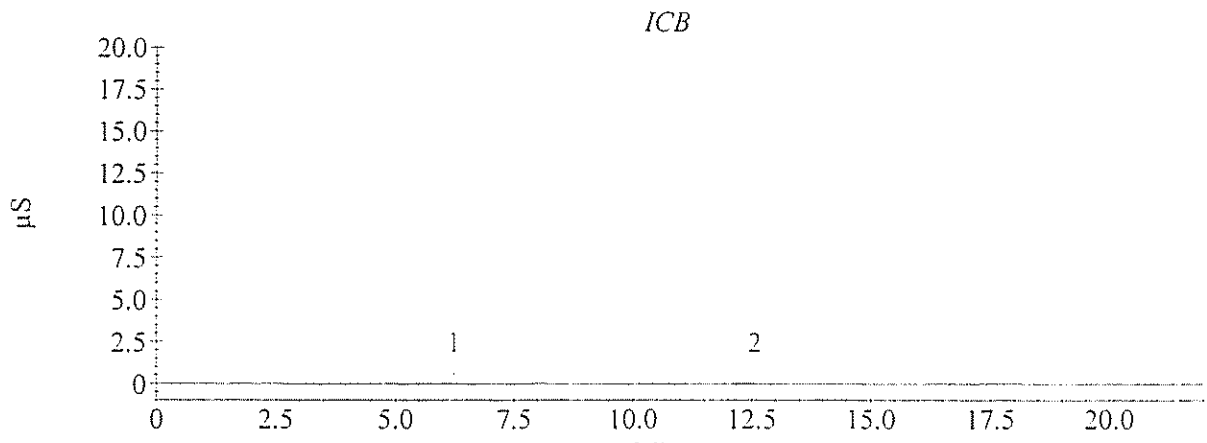
Sample Analysis Report

Sample Name : ICB
Data File Name : I:\ICDATA\IC500\090330\090330__004.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/30/09 5:51:17 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Chloride	6.23	0.024	7918	389
1	Chloride Nitrite-N Bromide	6.23	0.024	7918	389
2	Nitrate-N Phosphate-P Sulfate	12.57	0.049	8390	290



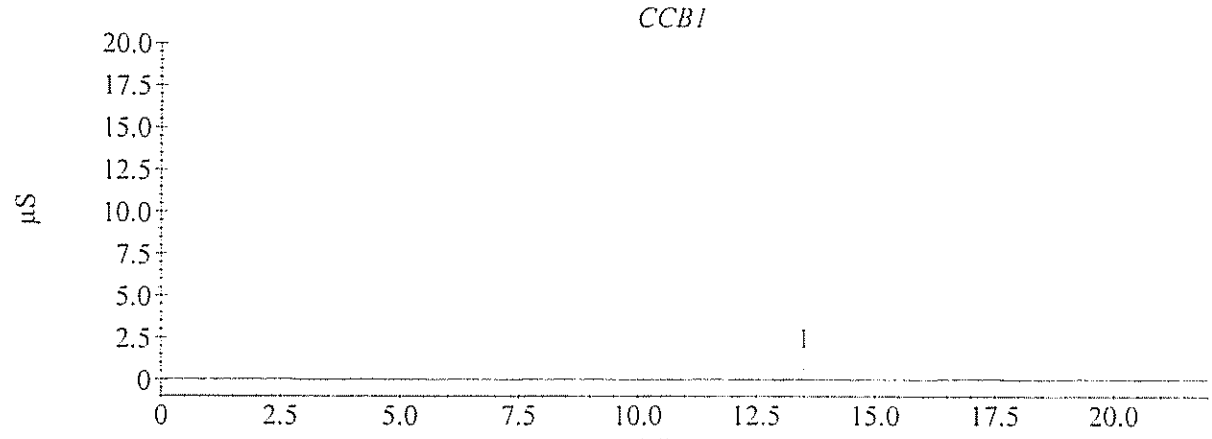
Sample Analysis Report

Sample Name : CCB1
Data File Name : I:\ICDATA\IC500\090330\090330__017.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/30/09 11:15:33 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Chloride Nitrite-N Bromide Nitrate-N Phosphate-P Sulfate	13.50	0.000	4008	228



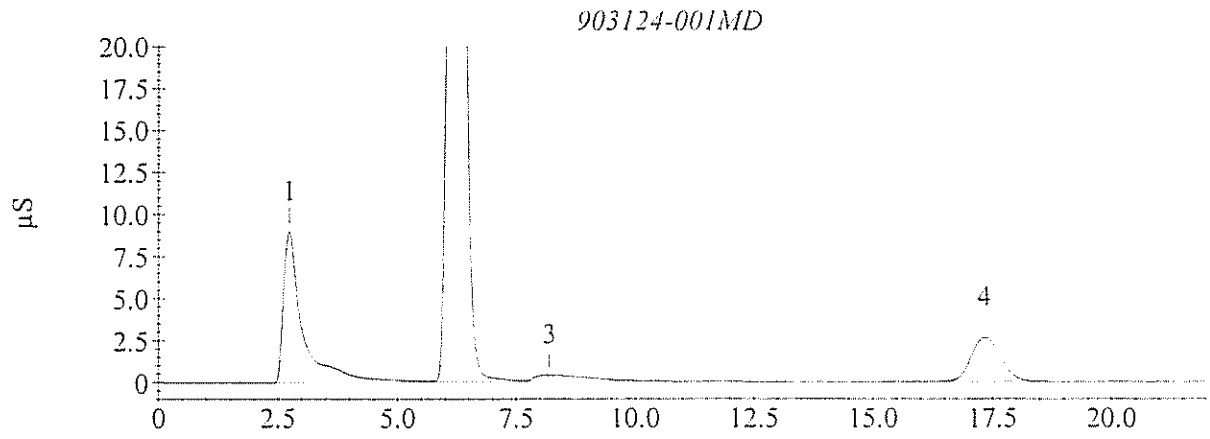
Sample Analysis Report

Sample Name : 903124-001MD
Data File Name : I:\ICDATA\IC500\090330\090330__006.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318l-300-0.met
Date Time Collected : 3/30/09 6:41:09 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.73	2.111	2583505	89619
2	Chloride	6.23	13.942	12721942	520191
	Nitrite-N				
	Bromide				
	Nitrate-N				
	Phosphate-P				
4	Sulfate	17.33	1.598	1150495	26503



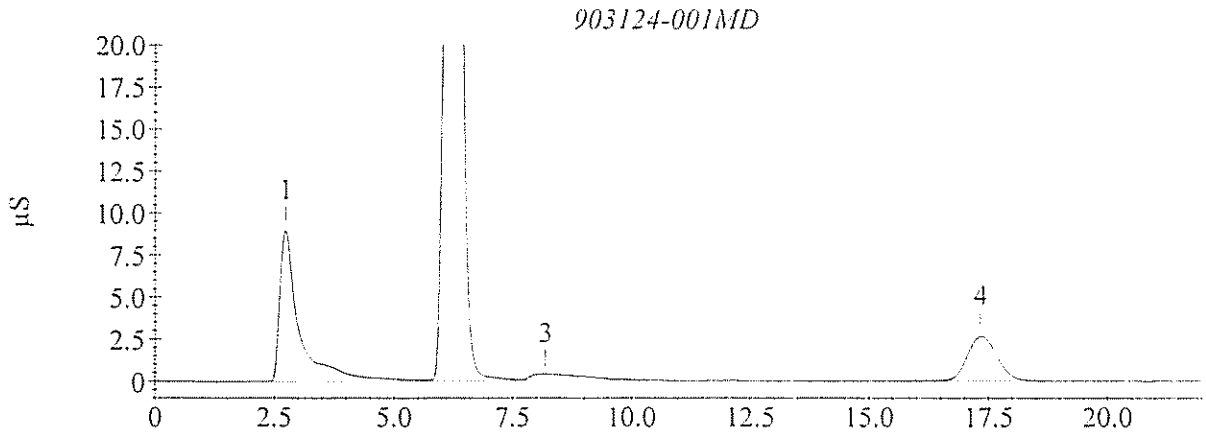
Sample Analysis Report

Sample Name : 903124-001MD
Data File Name : I:\ICDATA\IC500\090330\090330__006.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/30/09 6:41:09 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.73	0.000	2583505	89619
2	Chloride Nitrite-N Bromide Nitrate-N Phosphate-P	6.23	10.632	12721942	520191
4	Sulfate	17.33	2.814	1150495	26503



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-034-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/30/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	23	
14797-55-8	Nitrate	0.87	
7727-37-9	Nitrite	1.1	

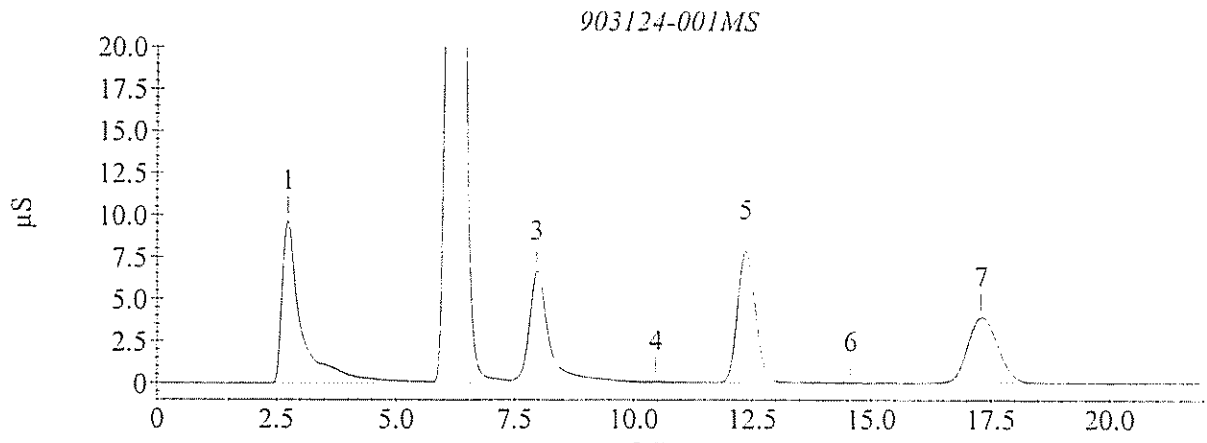
Sample Analysis Report

Sample Name : 903124-001MS
Data File Name : I:\ICDATA\IC500\090330\090330__007.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/30/09 7:06:06 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1	Fluoride	2.73	2.291	2804364	96386
2	Chloride	6.23	15.165	13839377	557343
3	Nitrite-N	7.97	1.096	1990230	66235
4	Bromide	10.47	0.053	16663	532
5	Nitrate-N	12.37	0.872	2056027	78220
	Phosphate-P				
7	Sulfate	17.30	2.367	1700714	38725



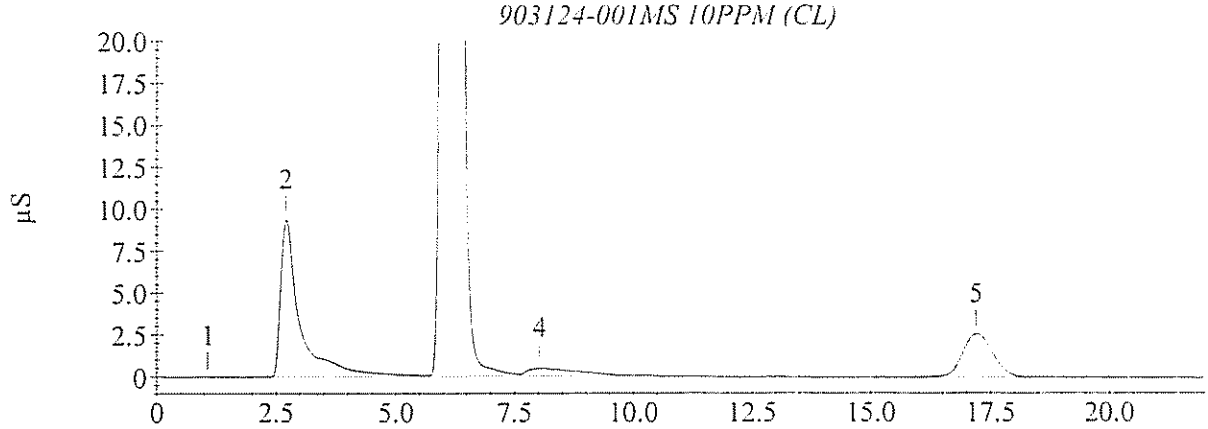
Sample Analysis Report

Sample Name : 903124-001MS 10PPM (CL)
Data File Name : I:\ICDATA\IC500\090330\090330__008.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/30/09 7:31:02 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		1.07	0.000	8650	238
3	Chloride	6.17	23.010	29745023	1213126
4	Nitrite-N	8.03	-2.483	318794	4379
	Bromide				
	Nitrate-N				
	Phosphate-P				
5	Sulfate	17.20	2.794	1130013	25621



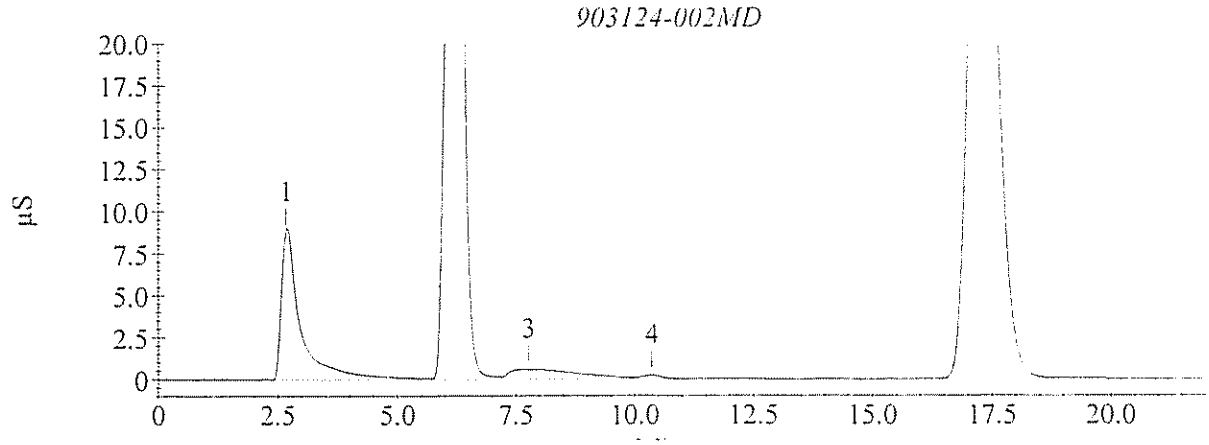
Sample Analysis Report

Sample Name : 903124-002MD
Data File Name : I:\ICDATA\IC500\090330\090330__010.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/30/09 8:20:57 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	2535749	87383
2	Chloride Nitrite-N	6.27	10.398	9484281	364777
4	Bromide Nitrate-N Phosphate-P	10.37	0.175	62722	2199
5	Sulfate	17.27	23.358	16728130	426696



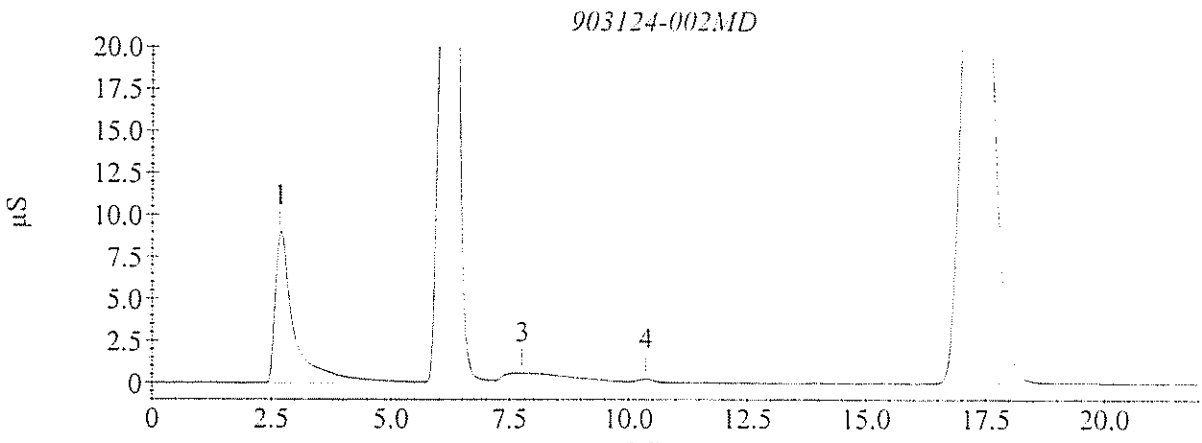
Sample Analysis Report

Sample Name : 903124-002MD
Data File Name : I:\ICDATA\IC500\090330\090330__010.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318h-300-0.met
Date Time Collected : 3/30/09 8:20:57 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	2535749	87383
2	Chloride Nitrite-N	6.27	8.278	9484281	364777
4	Bromide Nitrate-N Phosphate-P	10.37	2.023	62722	2199
5	Sulfate	17.27	18.036	16728130	426696



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-035-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/30/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	20	
14797-55-8	Nitrate	0.95	
7727-37-9	Nitrite	1.3	

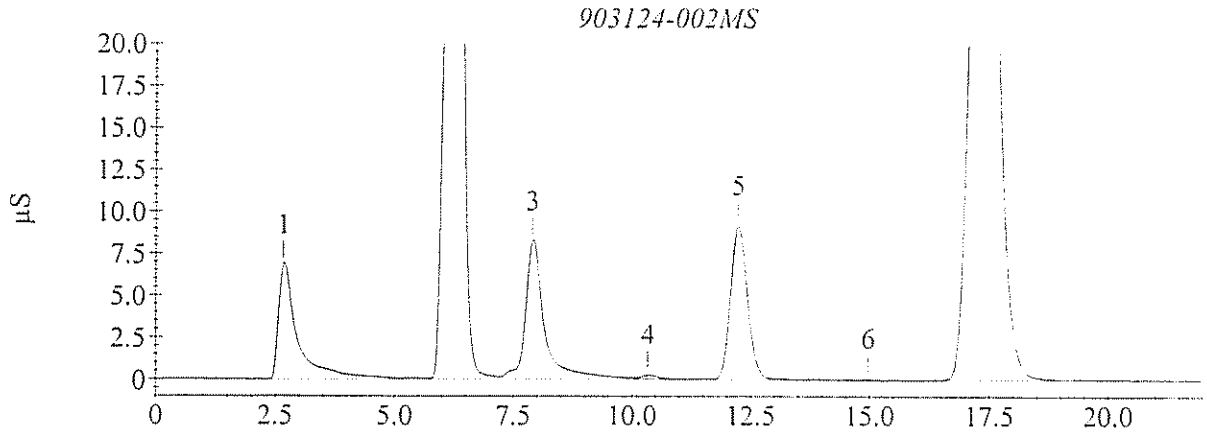
Sample Analysis Report

Sample Name : 903124-002MS
Data File Name : I:\ICDATA\IC500\090330\090330__011.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/30/09 8:45:55 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	1931275	67545
2	Chloride	6.30	11.841	10802617	452077
3	Nitrite-N	7.90	1.290	2335831	81565
4	Bromide	10.33	0.148	52416	1992
5	Nitrate-N	12.23	0.951	2252467	90872
6	Phosphate-P	14.97	0.054	5276	335
7	Sulfate	17.33	24.922	17847289	497451



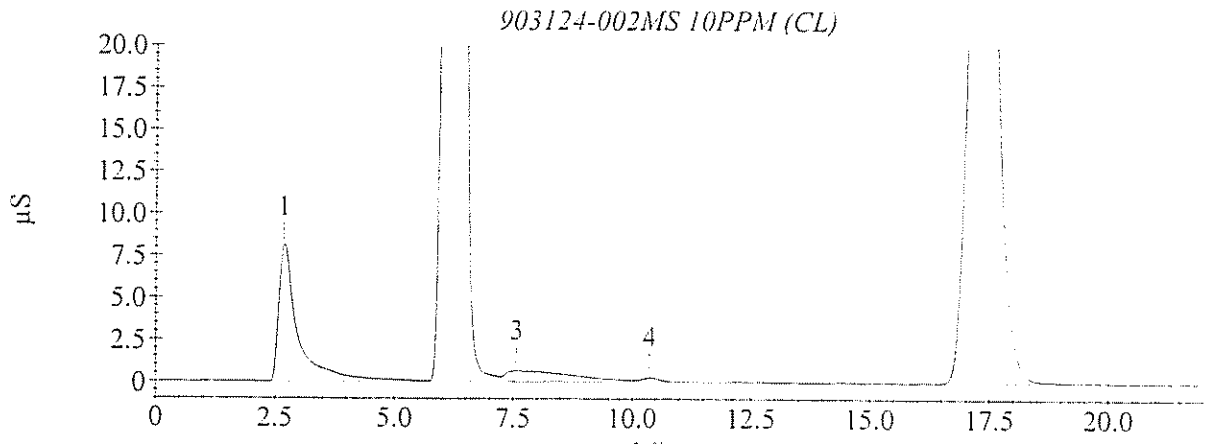
Sample Analysis Report

Sample Name : 903124-002MS 10PPM (CL)
Data File Name : I:\ICDATA\IC500\090330\090330__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/30/09 9:10:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	2294193	79383
2	Chloride	6.30	19.636	25104960	984951
	Nitrite-N				
4	Bromide	10.37	2.034	69091	2291
	Nitrate-N				
	Phosphate-P				
5	Sulfate	17.30	18.044	16736454	443794



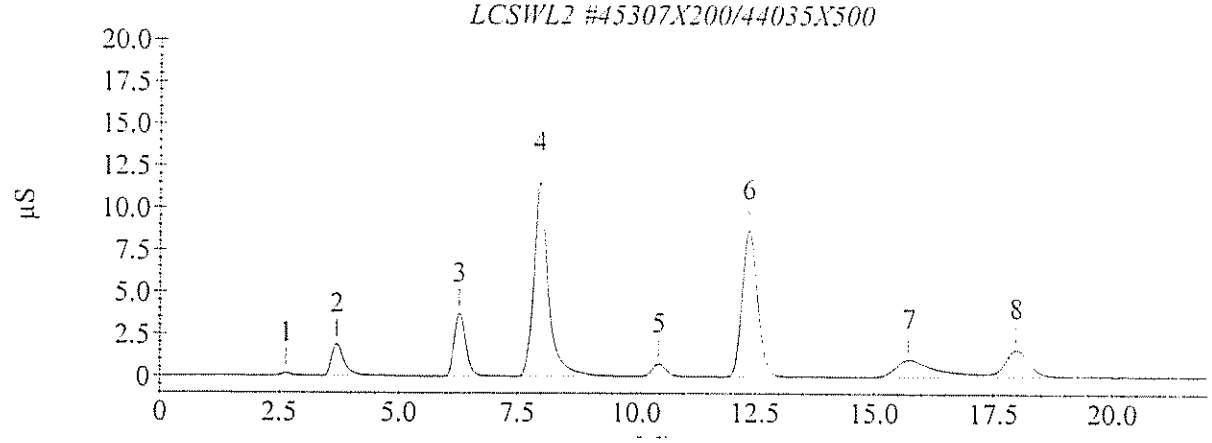
Sample Analysis Report

Sample Name : LCSWL2 #45307X200/44035X500
Data File Name : I:\ICDATA\IC500\090318\090318__091.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/20/09 3:22:41 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	0.290	344564	18728
3	Chloride	6.27	0.720	643675	37307
4	Nitrite-N	7.97	1.370	2478446	114818
5	Bromide	10.47	0.416	153917	7409
6	Nitrate-N	12.37	0.839	1974643	86765
7	Phosphate-P	15.73	1.169	608319	10271
8	Sulfate	17.97	0.788	570543	16002



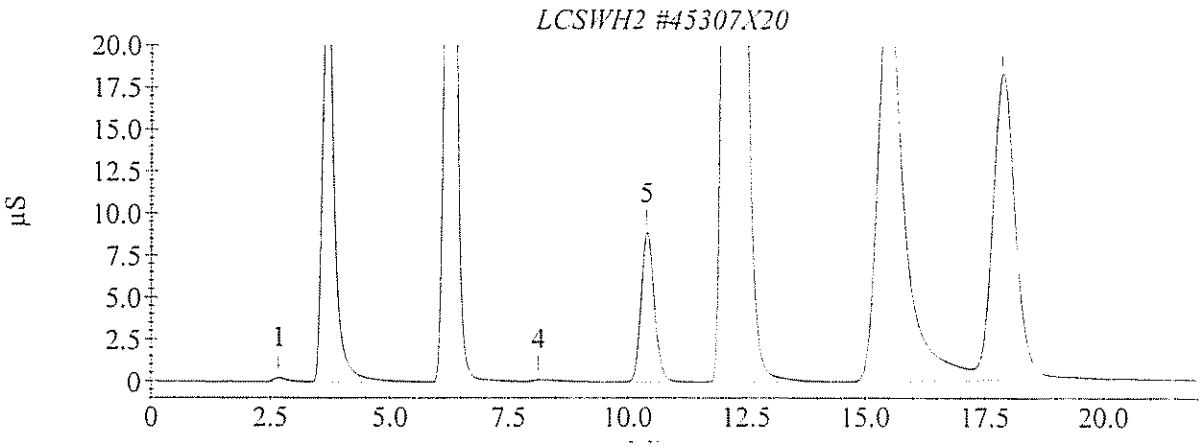
Sample Analysis Report

Sample Name : LCSWH2 #45307X20
Data File Name : I:\ICDATA\IC500\090318\090318__092.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/20/09 3:47:46 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	3.222	4203460	232094
3	Chloride	6.23	7.413	8295355	497023
4	Nitrite-N	8.13	-2.682	62628	1367
5	Bromide	10.40	4.930	1734136	88081
6	Nitrate-N	12.13	8.784	27204453	1118580
7	Phosphate-P	15.47	11.200	9143159	239578
8	Sulfate	17.87	7.635	6084109	181313



ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	F, Cl, SO_4, Br, NO_3-N, PO_4-P, NH_2-N
Analysis Method:	E300
Backpressure:	2200 psi Conductivity: 23.741 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	AG9-HC # 013201
Analysis Column ID:	AS9-HC # 012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.met / 090318H-300-0.met ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090318-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090318-001.dxd	Rinse	—	—	—	
2	ICVLA - 1.25 mg/L	1	Std	3/18/09	
3	ICVLB - 1.25 mg/L	1			
4	ICB	1			
5	Std1 - BLK	1			090318L
6	Std2 - 0.10 mg/L	1			
7	Std3 - 0.25 mg/L	1			
8	Std4 - 0.50 mg/L	1			
9	Std5 - 1.00 mg/L	1			
10	Std6 - 2.50 mg/L	1			
11	Std1 - 2.50 mg/L	1			090318H
12	Std2 - 5.00 mg/L	1			
13	Std3 - 10.0 mg/L	1			
14	Std4 - 15.0 mg/L	1			
15	Std5 - 25.0 mg/L	1			
16	Std6 - 50.0 mg/L	1			
17	ICVL - 1.25 mg/L	1			
18	ICVH - 26.0 mg/L	1			
19	ICB	1			
20	BLK 903095	1	wipe		
21	BLS 903095	1			
22	903095-001	1			
23	BLK 903105	1			
24	BLS 903106	1			
25	903105-001	1			
26	-002	1			
090318-027.dxd	-003	1		3/18/09	

Remarks

☆ # 45307 T.V.'s (mg/L)
Cl: 157.8
NO_3-N: 187.2
SO_4: 168.6

Std / Eluent	Lot#	Conc.	Prep. date
Carbonate Eluent	48373	9 mM	3/12/09
Mixed Anions Stock Std (working)	45409	100 mg/L	3/18/09
Mixed Anions Stock Std (ICVL/H)	45026	100 mg/L	1/26/09
Mixed Anions QC Std	45307	☆	exp 11/1/11
Nitrate QC Std	44035	732 mg/L	exp 8/1/10

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500   Reviewed By: ____   Review Date: ____

Analytes(s):	F, Cl, SO4, Br, NO3-N, PO4-P, NO2-N
Analysis Method:	E300
Backpressure:	2200 psi
Conductivity:	23.741 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	
Analysis Column ID:	500 p. 35
ATC ID:	

ICAL Method File: 090318C-300-0.mcl / C90318H-300-0.met JCSA 3/23/09   ICAL Date: 3/18/09   Analyst: JCSA

Seq. ID. 090318-300-sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090318-055.dxd	903125-010	1	H2O	3/19/09	
56	CCVL3-1.25 mg/L	1	Std		
57	CCVH3-20.0 mg/L	1	↓		
58	CCB3	1	↓		
59	903125-006	1	H2O		
60	-007	1			
61	-011	1			
62	-005	1			
63	-003	1			
64	-004	1			
65	-013	1			
66	-011	1			
67	-009	1			
68	↓ -001	1	↓		
69	CCVL4-1.25 mg/L	1	Std		
70	CCVH4-20.0 mg/L	1			
71	CCB4	1	↓		
72	903125-002	1	H2O		
73	-012	1			
74	↓ -008	1	↓		
75	CCSWL1 #45307x200/#44835x500	200/500	Std		
76	ICSWH1 #45307x20	20	↓		
77	903124-010	1	H2O		
78	-001	1			
79	-008	1			
80	-005	1		↓	
090318-081.dxd	↓ -006	1	↓	3/19/09	

Remarks

Std / Eluent	Lot# / Conc. / Prep. date
500 p. 35	

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date: _____

Analytes(s):	F Cl SO_4, Br NO_3-N, PO_4-P NO_2-N
Analysis Method:	E300
Backpressure:	2200 psi Conductivity: 23.741 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	✓

Guard Column ID:	
Analysis Column ID:	Lee p.35
ATC ID:	

ICAL Method File: 090318-300-0.met / 090318H-300.0.met ICAL Date: 3/18/09 Analyst: JGA

Seq. ID. 090318-300.sci

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090318-082.dxd	903124-009	1	H_2O	3/19/09	
83	CCVLS-1.25 mg/L	1	Std	3/20/09	
84	CCVHS-20.0 mg/L	1	↓	↓	
85	CCBS	1	↓	↓	
86	903124-003	1	H_2O	↓	
87	-011	1	↓	↓	
88	-004	1	↓	↓	
89	-007	1	↓	↓	
90	-002	1	↓	↓	
91	LCSWL2-#45307x200/#903124	200/5.0	Std	↓	
92	LCSWH2-#45307x20	20	↓	↓	
93	CCVL6-1.25 mg/L	1	↓	↓	
94	CCVH6-20.0 mg/L	1	↓	↓	
090318-095.dxd	CCB6	1	↓	3/20/09	

Remarks	Std / Eluent	Lot# / Conc. / Prep. date
	Lee p-35	

ION CHROMATOGRAPHY ANALYSIS LOG

Instrument ID: Dionex 500 Reviewed By:_____ Review Date:_____

Analytes(s):	Cl, NO_2-N, NO_3-N
Analysis Method:	E300
Backpressure:	2170 psi Conductivity: 23.525 µS
Injection Volume:	200 µL
Gas pressure check:	✓
Sparge the eluents:	✓
Eluent level check:	

Guard Column ID:	AG9-HC #A13201
Analysis Column ID:	AS9-HC #012518
ATC ID:	N/A

ICAL Method File: 090318L-300-0.mod / 090318H-300-0.met ICAL Date: 3/18/09 Analyst: JCSA

Seq. ID. 090330-300.sch

Seq.Ext.ID	GPL ID	Dil	Matrix	Date	Comments
090330-001.dxd	Rinse	✓	—	—	
2	ICVL-1.25 mg/L	1	Std	~~3/30/09~~ 3/30/09	
3	ICVH-20.0 mg/L	1	↓	↓	
4	ICB	1	↓		
5	903124-001	1	H_2O		
6	-001MD	1	|		
7	-001MS	1	|		
8	-001MS 10 ppm (Cl)	1	|		
9	-002	1	|		
10	-002MD	1	|		
11	-002MS	1	|		
12	↓ -002MS 10 ppm (Cl)	1	|		
13	903125-001	1	|		
14	↓ -001MD	1	↓		
15	CCVL1-1.25 mg/L	1	Std		
16	CCVH1-20.0 mg/L	1	↓		
17	CCB1	1	↓	↓	
18	903125-001MS	1	H_2O	3/30/09	
19	-001MS 10 ppm (Cl)	1	|	3/31/09	
20	-002	1	|	|	
21	-002MD	1	|	|	
22	-002MS	1	|	|	
23	↓ -002MS 10 ppm (Cl)	1	|	|	
24	903144-001	1	|	|	
25	-001MD	1	|	|	
26	-001MS	1	|	↓	
090330-027.dxd	↓ -001MS 10 ppm (Cl)	1	↓	3/31/09	

Remarks #45307 T.V. 5 (mg/L)

Cl = 157.8

NO_3 = 187.2

Std / Eluent	Lot# / Conc. / Prep. date
Carbonate Eluent	45487 9 mM 3/26/09
Mixed Anion Stock Std	45225 100 mg/L 3/15/09
Mixed Anion QC Std	45307 ☆ exp 11/1/11
Nitrite QC Std	44035 732 mg/L exp 8/1/10
Cl Stock Std	43087 1000 mg/L exp 12/1/09

SAMPLE DATA PACKAGE

RSK 175 DATA

A. QC Summary

B. Sample Data

C. Standards Data

D. Raw QC Data

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary
   (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name : GPL Laboratories SDG NO : 903098 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903098-012-111-2/6MSD Matrix : WATER Analysis Date : 03/27/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	310	310	0.0	290	290	94	94	0	25	80-120
Ethene	290	290	0.0	280	280	97	97	0	25	80-120
Methane	160	160	140	250	250	69 *	69 *	0	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 2 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108914

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Lab File ID :	G262729.D	SDG NO :	903124
Date Analyzed	03/31/2009	Lab Sample ID :	BLK108914
GC Column :	ID. RTX_VC	Time Analyzed :	07:25

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-52GW39-0309	903124-007-068-1/2	G262743.D	11:37
OU1-52GW39-0309DL	903124-007-069-2/2	G262745.D	12:08
OU1-52GW42-0309	903124-003-060-1/2	G262734.D	09:20
OU1-52GW42-0309DL	903124-003-061-2/2	G262736.D	09:51
OU1-52GW47-0309	903124-001-056-1/2	G262730.D	07:41
OU1-52GW47-0309DL	903124-001-057-2/2	G262732.D	08:15
OU1-52GW48-0309	903124-005-064-1/2	G262737.D	10:08
OU1-52GW48-0309DL	903124-005-065-2/2	G262741.D	11:07
OU1-52GW55-0309	903124-009-072-1/2	G262747.D	12:51
OU1-52GW55-0309DL	903124-009-073-2/2	G262749.D	13:23
OU1-52GW56-0309	903124-006-066-1/2	G262738.D	10:22
OU1-52GW56-0309DL	903124-006-067-2/2	G262742.D	11:22
OU1-52GW57-0309	903124-010-074-1/2	G262748.D	13:06
OU1-52GW57-0309DL	903124-010-075-2/2	G262750.D	13:37
OU1-52GW58-0309	903124-008-070-1/2	G262744.D	11:51
OU1-52GW58-0309DL	903124-008-071-2/2	G262746.D	12:22
OU1-52GW71-0309	903124-002-058-1/2	G262731.D	07:57
OU1-52GW71-0309DL	903124-002-059-2/2	G262733.D	08:29
OU1-52GW72-0309	903124-004-062-1/2	G262735.D	09:37

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108915

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Lab File ID :	G262753.D	SDG NO :	903124
Date Analyzed	03/31/2009	Lab Sample ID :	BLK108915
GC Column :	ID. RTX_VC	Time Analyzed :	14:39

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-52GW38-0309	903124-011-076-1/2	G262754.D	14:52
OU1-52GW38-0309DL	903124-011-077-2/2	G262755.D	15:07

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-056-1/2
Sample Volume :	10	Lab File ID :	G262730.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	44	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262730.D Vial: 3
Acq On : 31 Mar 2009 7:41 Operator: TG
Sample : 903124-001 Inst : GC-G
Misc : OU1-52GW47-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 7:51 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) T Methane	0.65	8271	44.291	ppb	m
2) T Ethane	0.00	0	N.D.	ppb	
3) T Ethylene	0.00	0	N.D.	ppb	

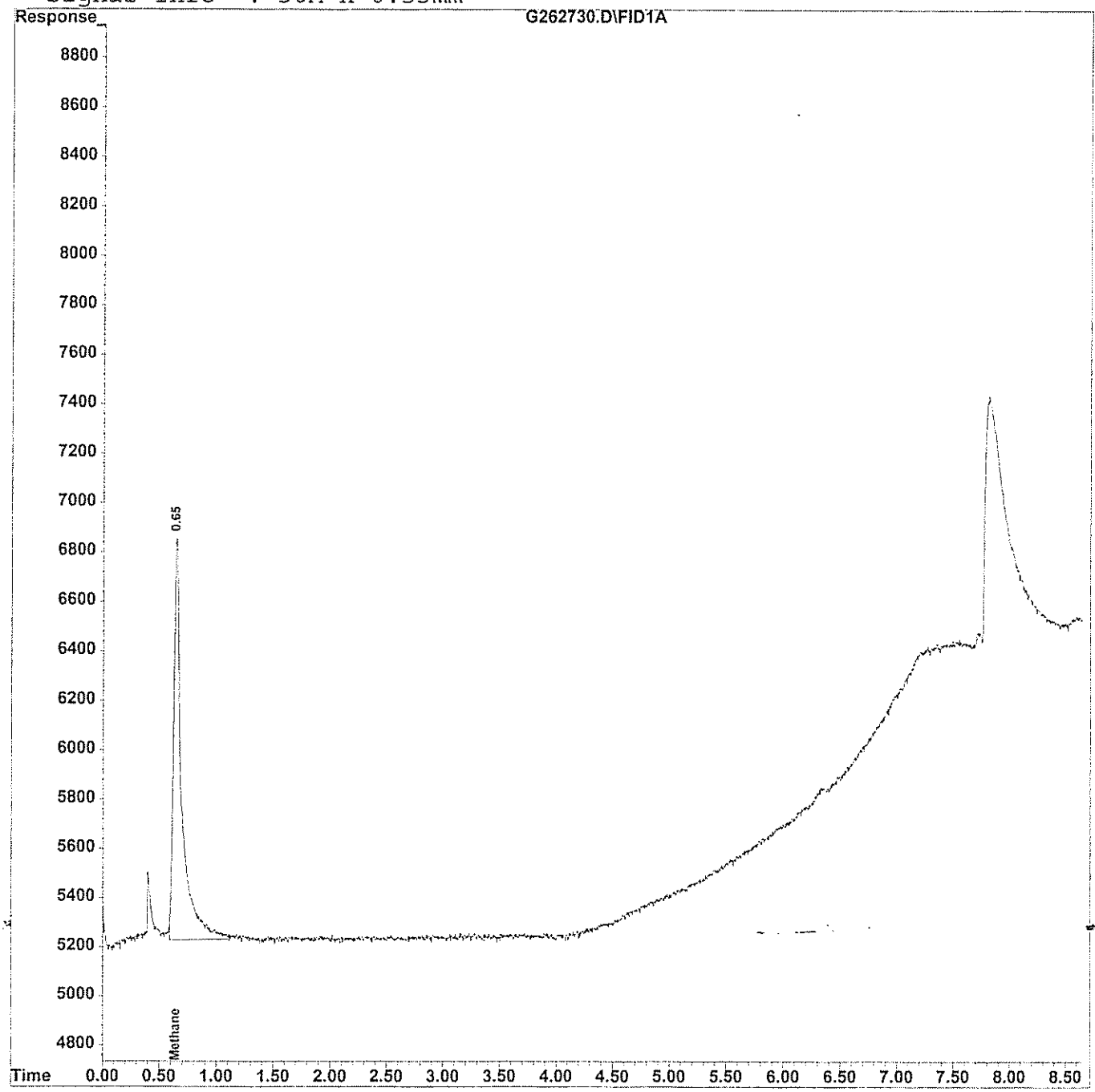
(f)=RT Delta > 1/2 Window (m)=manual int

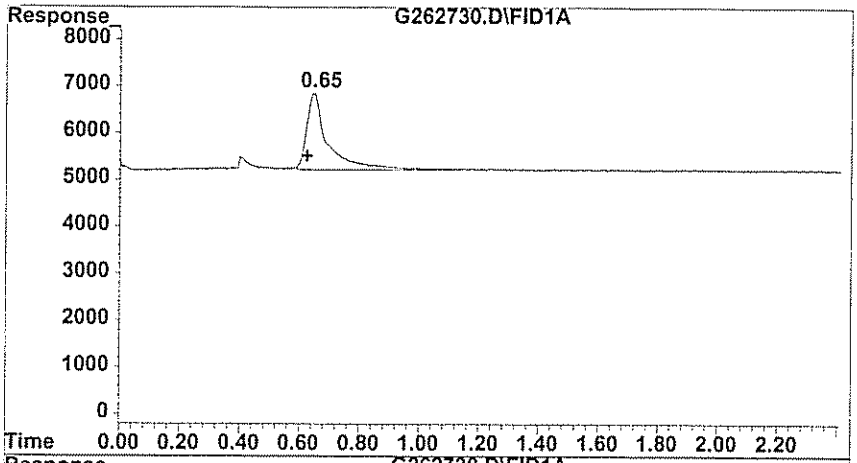
Quantitation Report

Data File : H:\GCDATA\G\033109\G262730.D Vial: 3
Acq On : 31 Mar 2009 7:41 Operator: TG
Sample : 903124-001 Inst : GC-G
Misc : OU1-52GW47-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 7:51 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

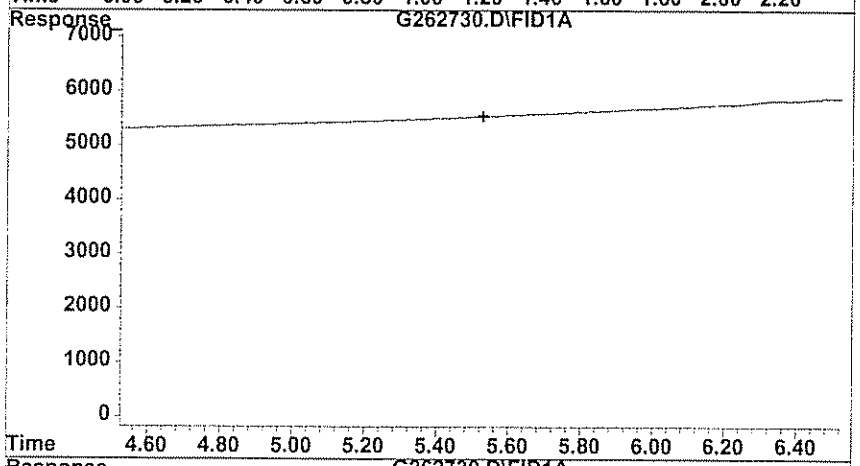
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





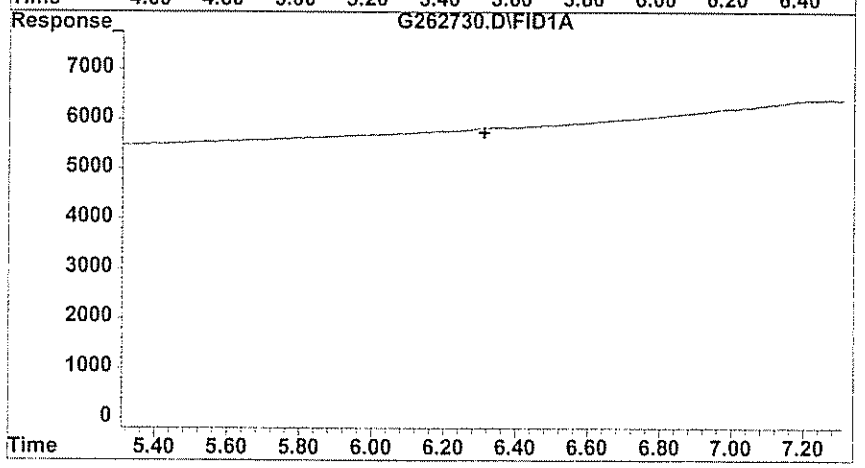
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.027 min
Response: 8271
Conc: 44.29 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW47-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-001-057-2/2
Sample Volume :	2	Lab File ID :	G262732.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	5
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	31	U
74-85-1	Ethene	29	U
74-82-8	Methane	44	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262732.D Vial: 5
Acq On : 31 Mar 2009 8:15 Operator: TG
Sample : 903124-001DL Inst : GC-G
Misc : OU1-52GW47-0309,CH2M,WATER,2ML,5X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 8:24 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	1635	8.755	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

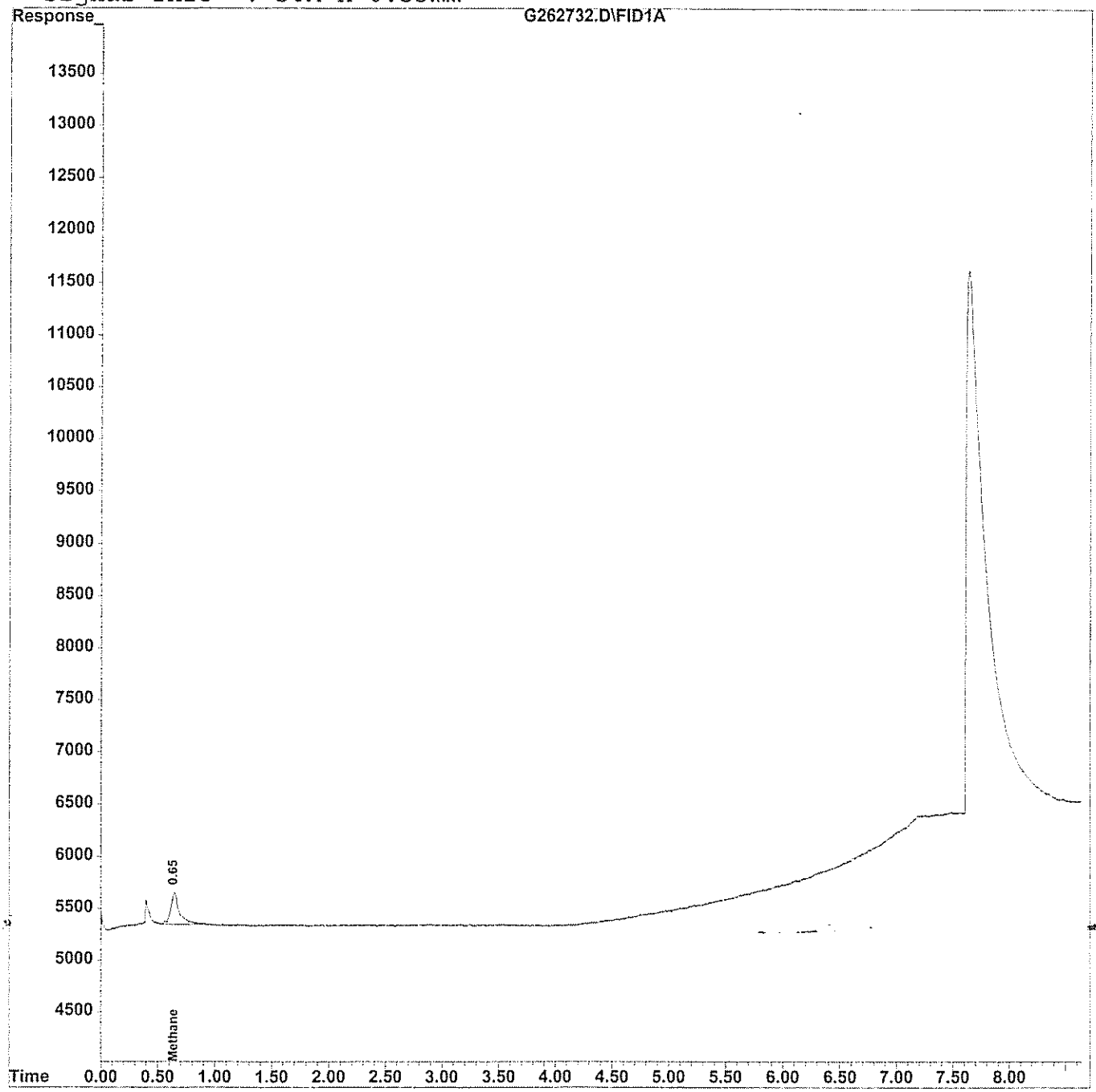
(f)=RT Delta > 1/2 Window (m)=manual int

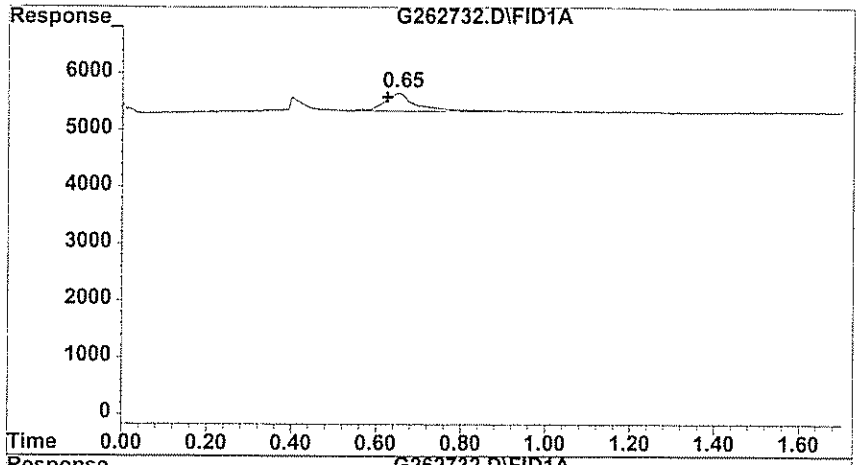
Quantitation Report

Data File : H:\GCDATA\G\033109\G262732.D Vial: 5
Acq On : 31 Mar 2009 8:15 Operator: TG
Sample : 903124-001DL Inst : GC-G
Misc : OU1-52GW47-0309,CH2M,WATER,2ML,5X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 8:24 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

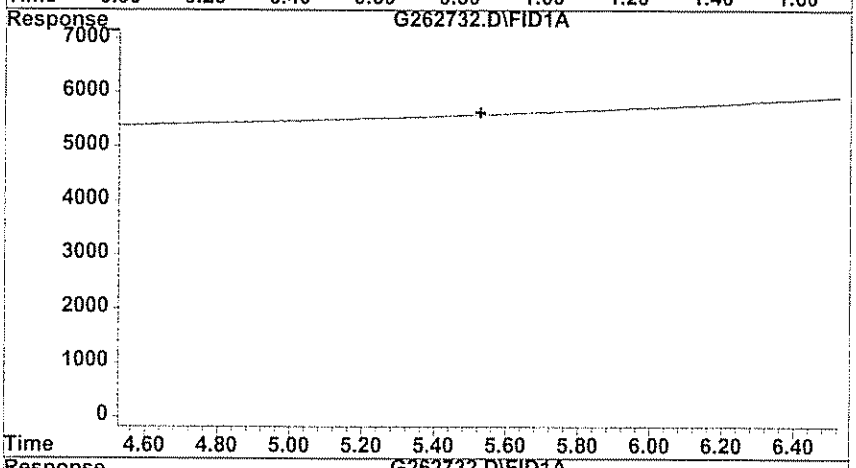
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





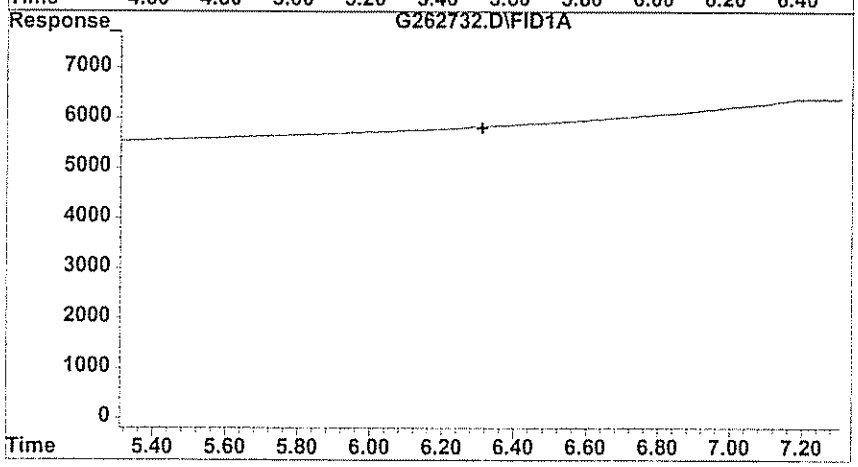
#1 Methane

R.T.:	0.647 min
Delta R.T.:	0.023 min
Response:	1635
Conc:	8.76 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.527 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.310 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-058-1/2
Sample Volume :	10	Lab File ID :	G262731.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	300	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262731.D Vial: 4
Acq On : 31 Mar 2009 7:57 Operator: TG
Sample : 903124-002 Inst : GC-G
Misc : OU1-52GW71-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 8:06 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.65	56764	303.973	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

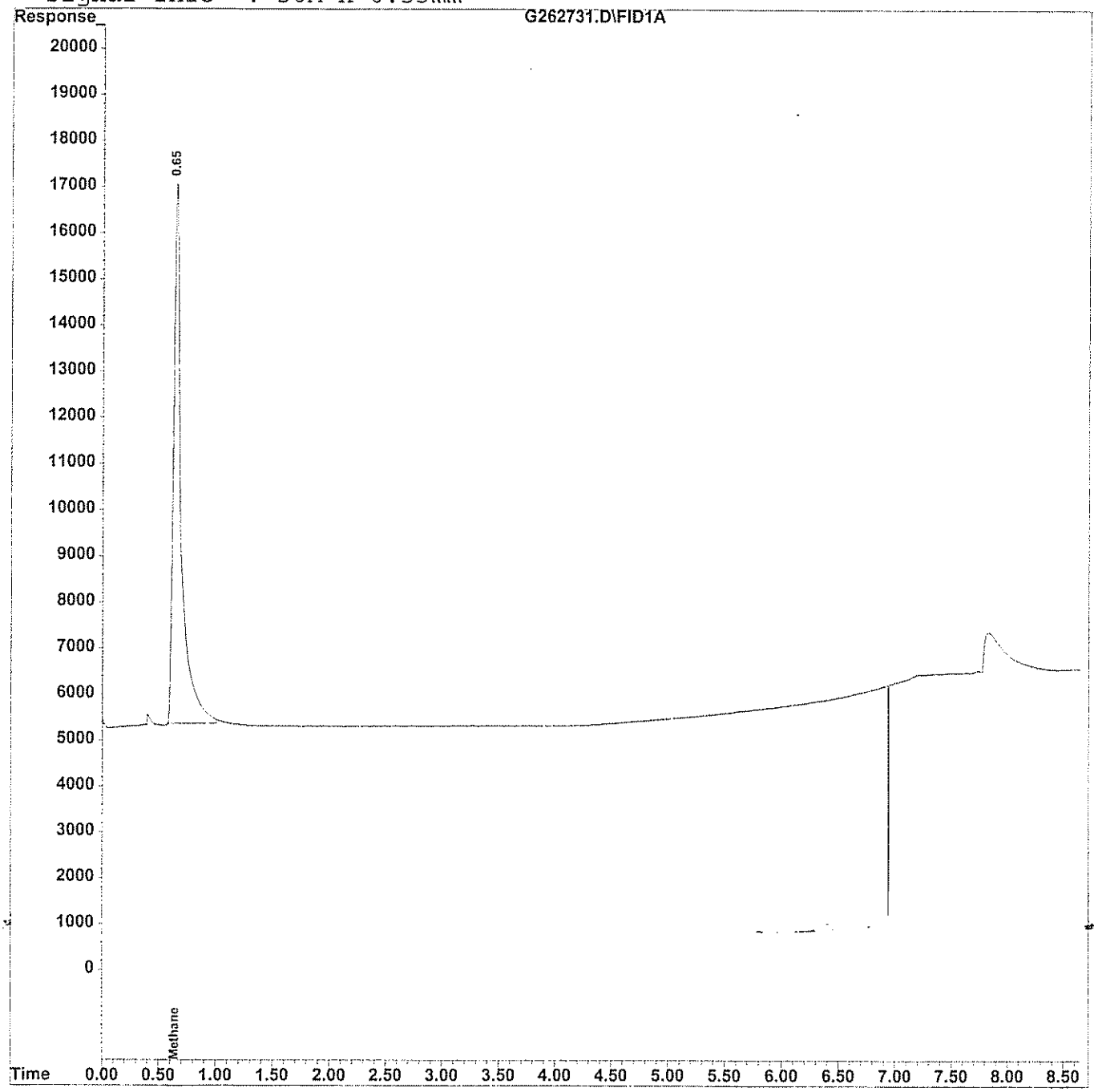
(f)=RT Delta > 1/2 Window (m)=manual int

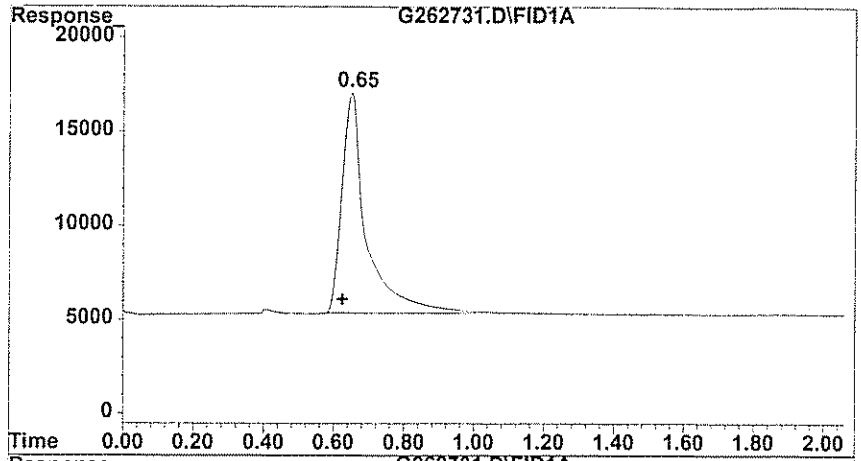
Quantitation Report

Data File : H:\GCDATA\G\033109\G262731.D Vial: 4
Acq On : 31 Mar 2009 7:57 Operator: TG
Sample : 903124-002 Inst : GC-G
Misc : OU1-52GW71-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 8:06 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

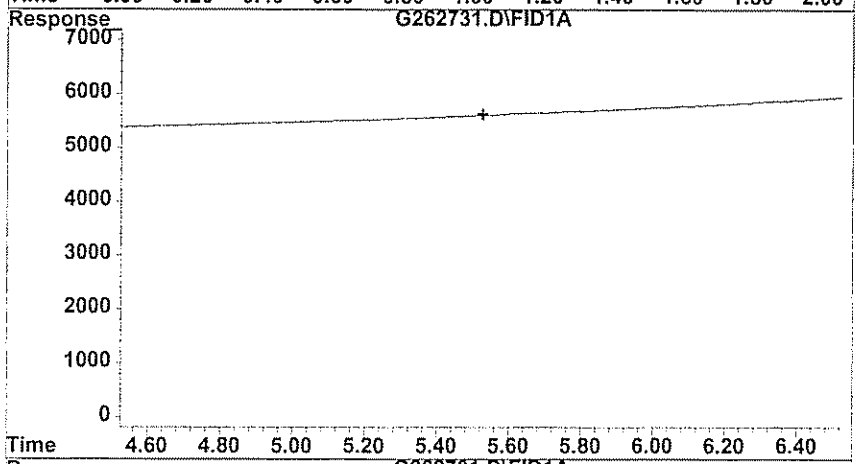
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





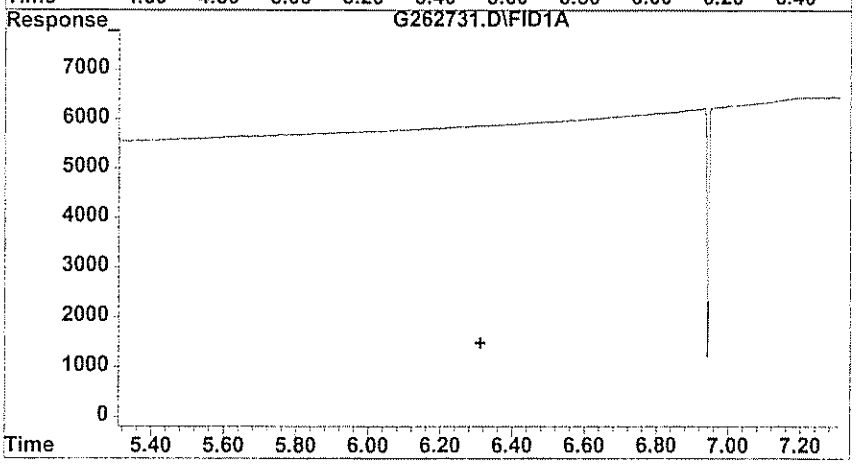
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.027 min
Response: 56764
Conc: 303.97 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW71-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-002-059-2/2
Sample Volume :	.5	Lab File ID :	G262733.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	290	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262733.D Vial: 6
Acq On : 31 Mar 2009 8:29 Operator: TG
Sample : 903124-002DL Inst : GC-G
Misc : OU1-52GW71-0309,CH2M,WATER,0.5ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 9:04 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2718	14.555	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

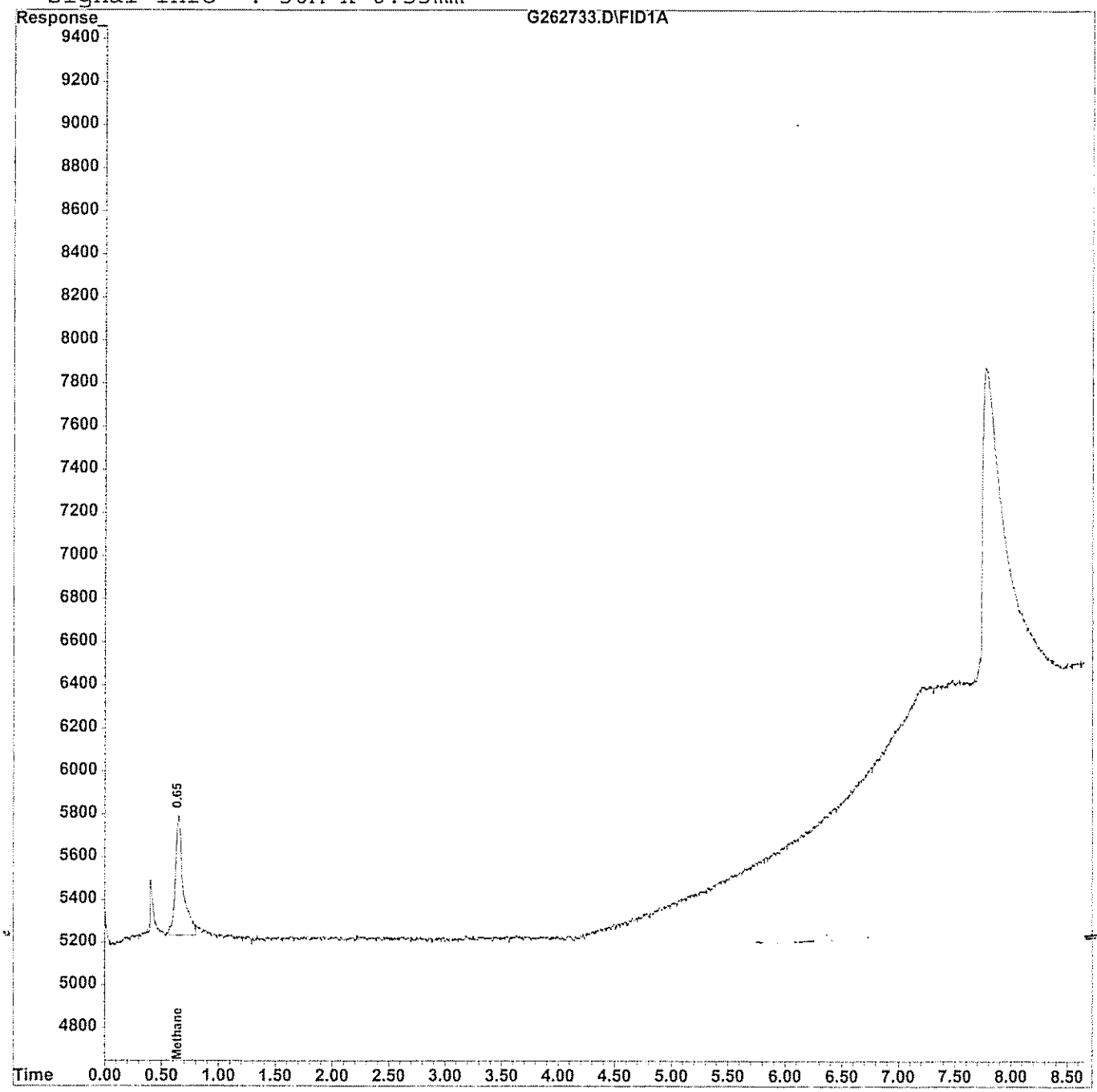
(f)=RT Delta > 1/2 Window (m)=manual int

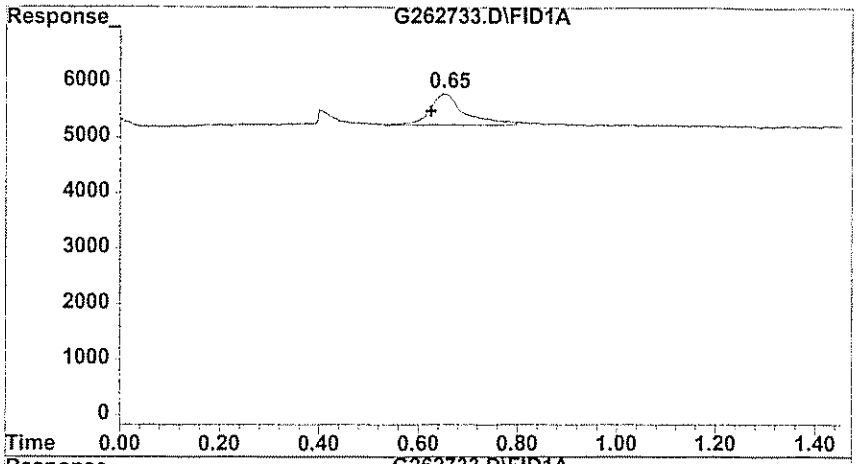
Quantitation Report

Data File : H:\GCDATA\G\033109\G262733.D Vial: 6
Acq On : 31 Mar 2009 8:29 Operator: TG
Sample : 903124-002DL Inst : GC-G
Misc : OU1-52GW71-0309,CH2M,WATER,0.5ML,20X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 9:04 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

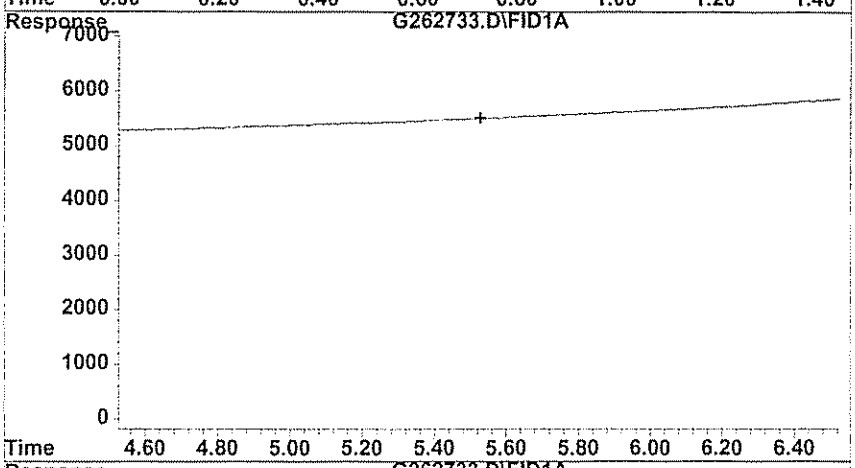
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





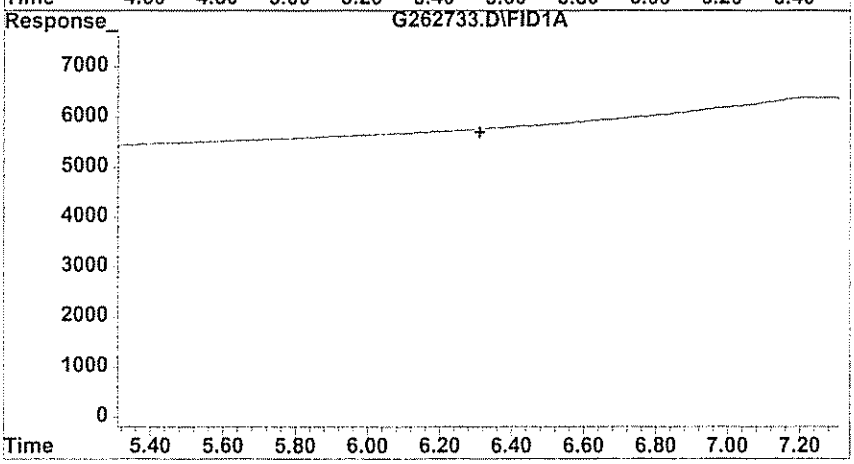
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.027 min
Response: 2718
Conc: 14.55 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-060-1/2
Sample Volume :	10	Lab File ID :	G262734.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	45	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262734.D Vial: 7
Acq On : 31 Mar 2009 9:20 Operator: TG
Sample : 903124-003 Inst : GC-G
Misc : OU1-52GW42-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 9:29 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	8345	44.688	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int

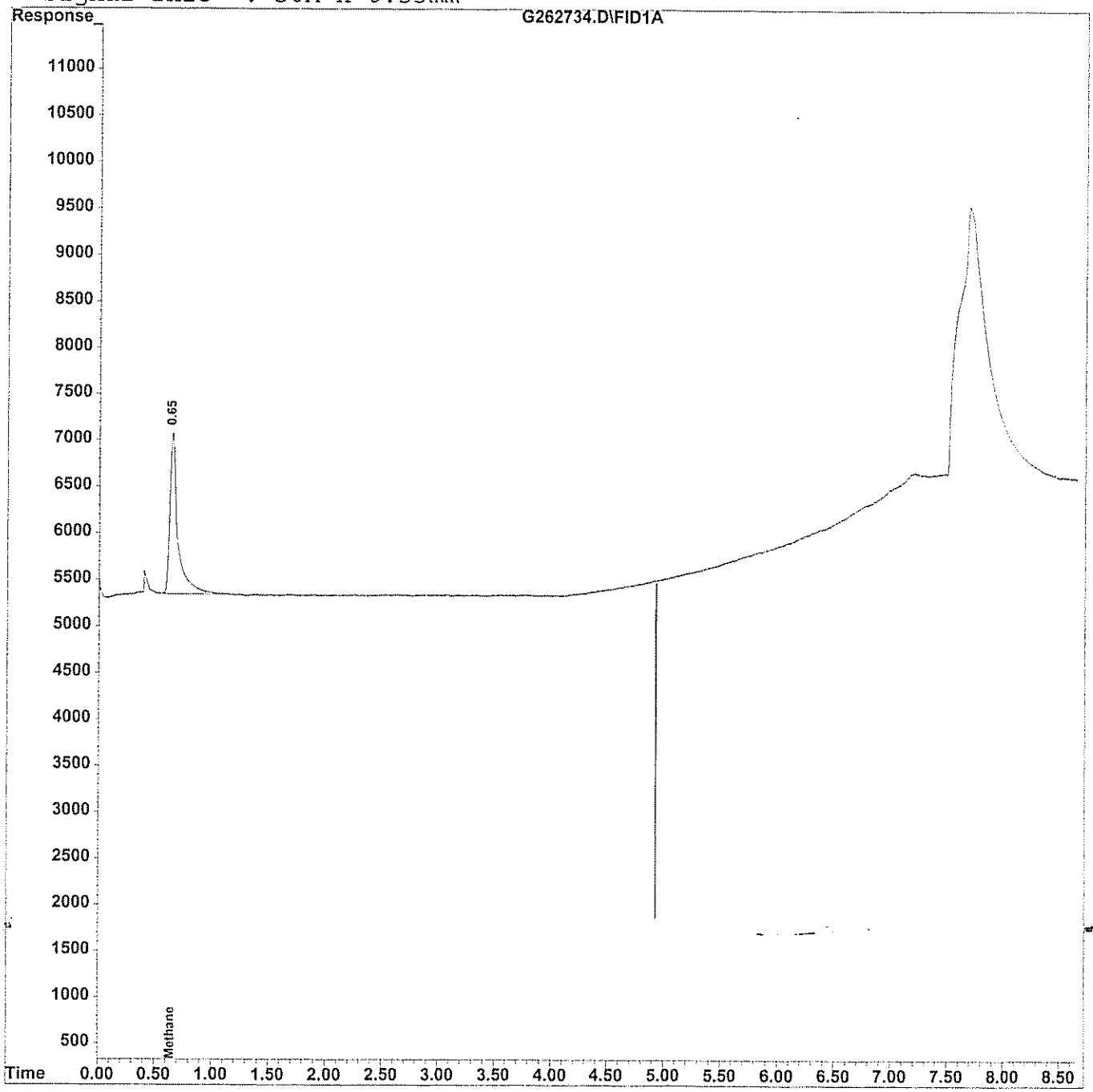
Quantitation Report

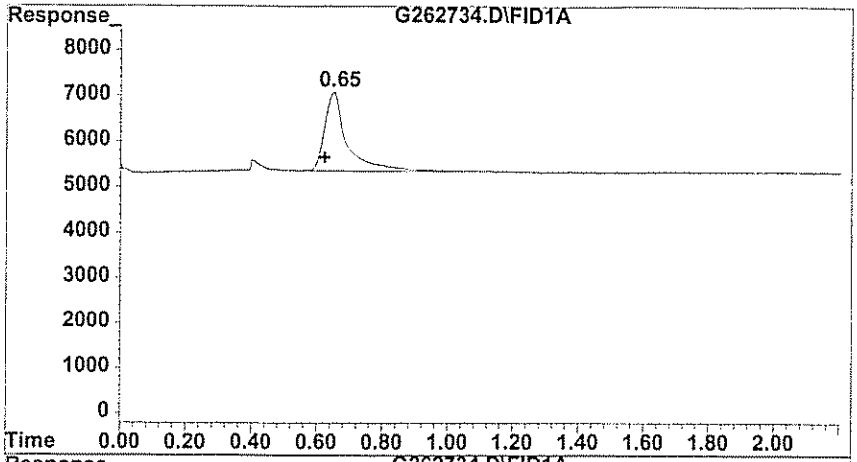
Data File : H:\GCDATA\G\033109\G262734.D
Acq On : 31 Mar 2009 9:20
Sample : 903124-003
Misc : OU1-52GW42-0309,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 31 9:29 2009 Quant Results File: RSK0327.RES

Vial: 7
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

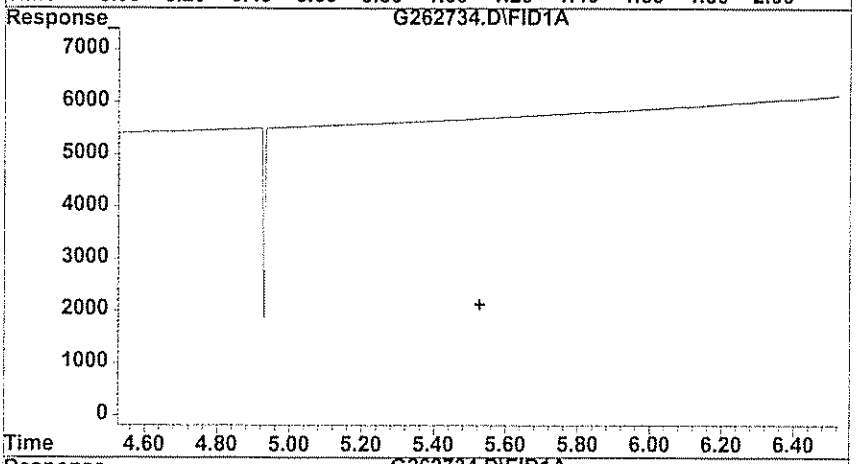
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





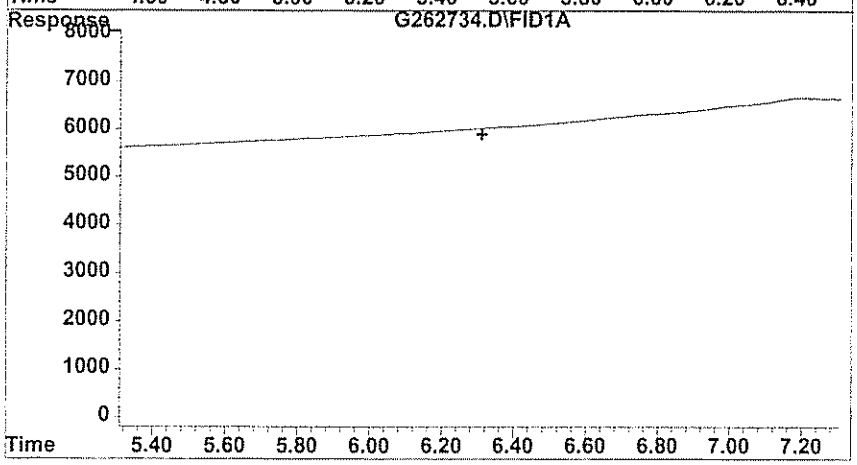
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.027 min
Response: 8345
Conc: 44.69 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW42-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-003-061-2/2
Sample Volume :	2	Lab File ID :	G262736.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	5
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	31	U
74-85-1	Ethene	29	U
74-82-8	Methane	44	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262736.D Vial: 9
Acq On : 31 Mar 2009 9:51 Operator: TG
Sample : 903124-003DL Inst : GC-G
Misc : OU1-52GW42-0309,CH2M,WATER,2ML,5X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 10:00 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	1646	8.814	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

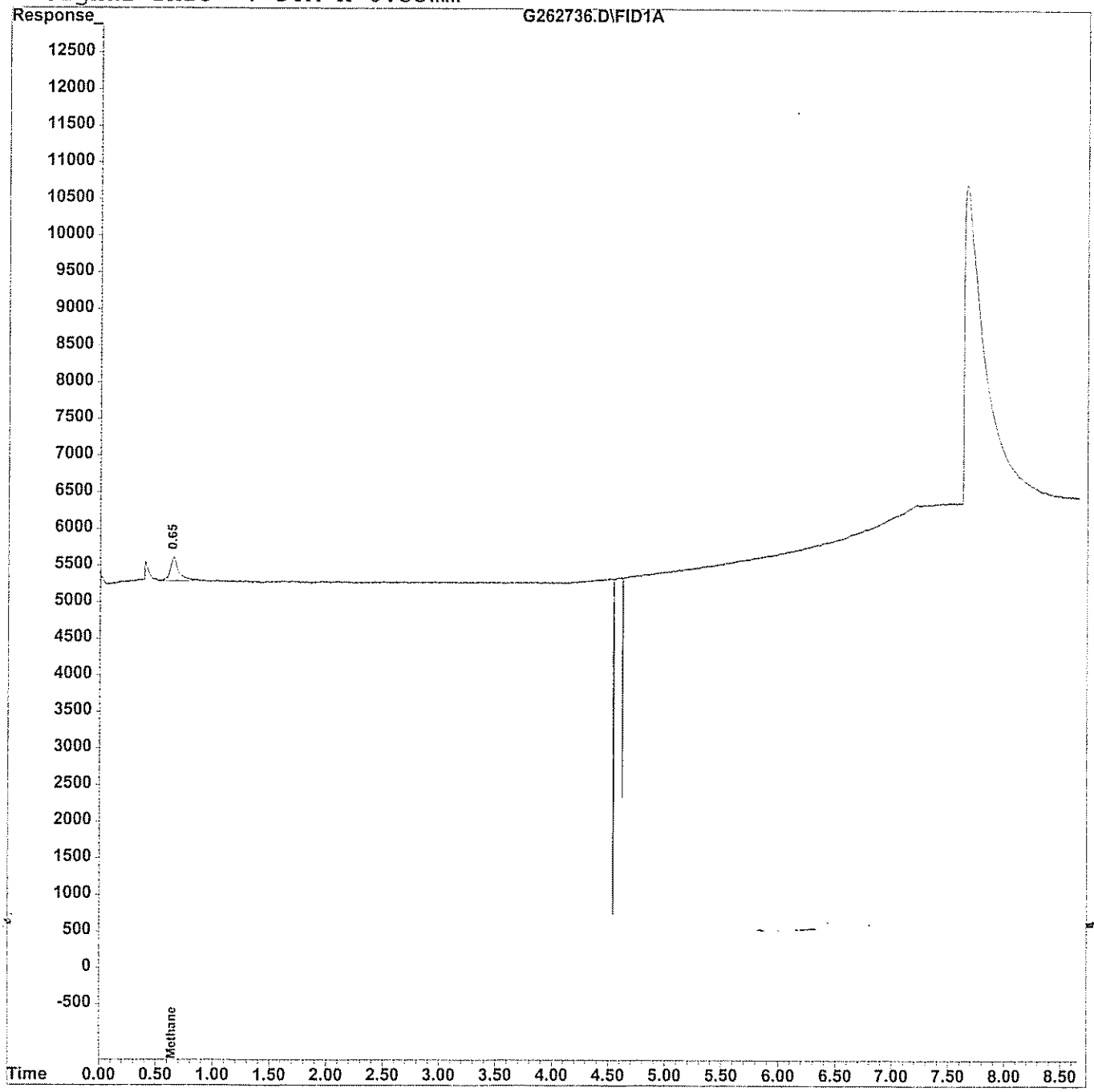
(f)=RT Delta > 1/2 Window (m)=manual int

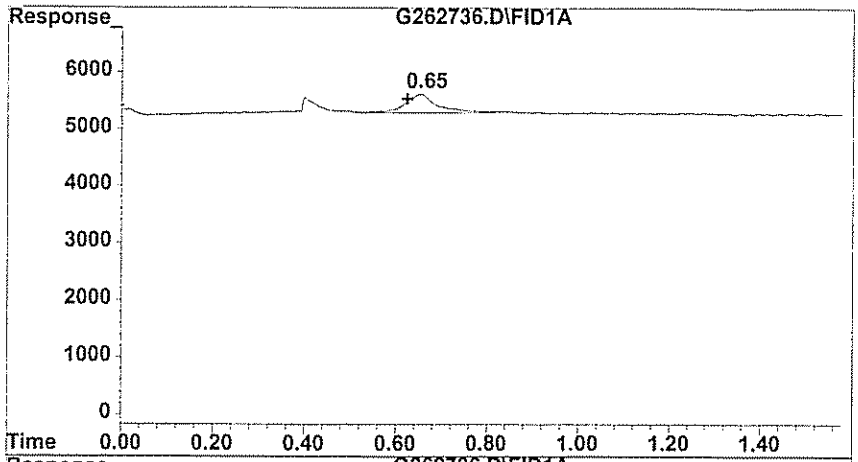
Quantitation Report

Data File : H:\GCDATA\G\033109\G262736.D Vial: 9
Acq On : 31 Mar 2009 9:51 Operator: TG
Sample : 903124-003DL Inst : GC-G
Misc : OU1-52GW42-0309,CH2M,WATER,2ML,5X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 10:00 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

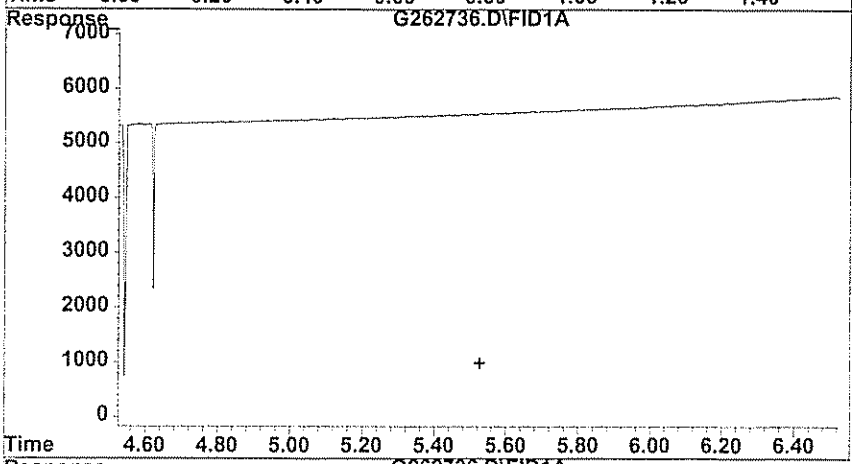
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





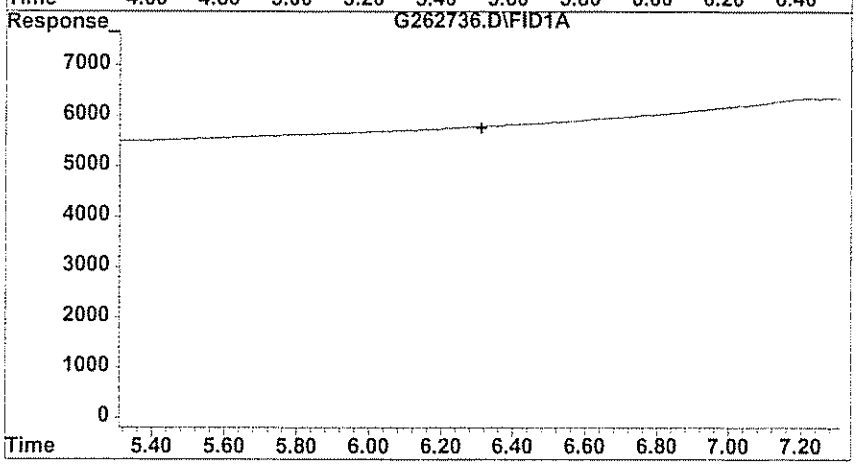
#1 Methane

R.T.:	0.653 min
Delta R.T.:	0.030 min
Response:	1646
Conc:	8.81 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.527 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.310 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW72-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-004-062-1/2
Sample Volume :	10	Lab File ID :	G262735.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	25	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262735.D Vial: 8
Acq On : 31 Mar 2009 9:37 Operator: TG
Sample : 903124-004 Inst : GC-G
Misc : OU1-52GW72-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 9:46 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	4738	25.372	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

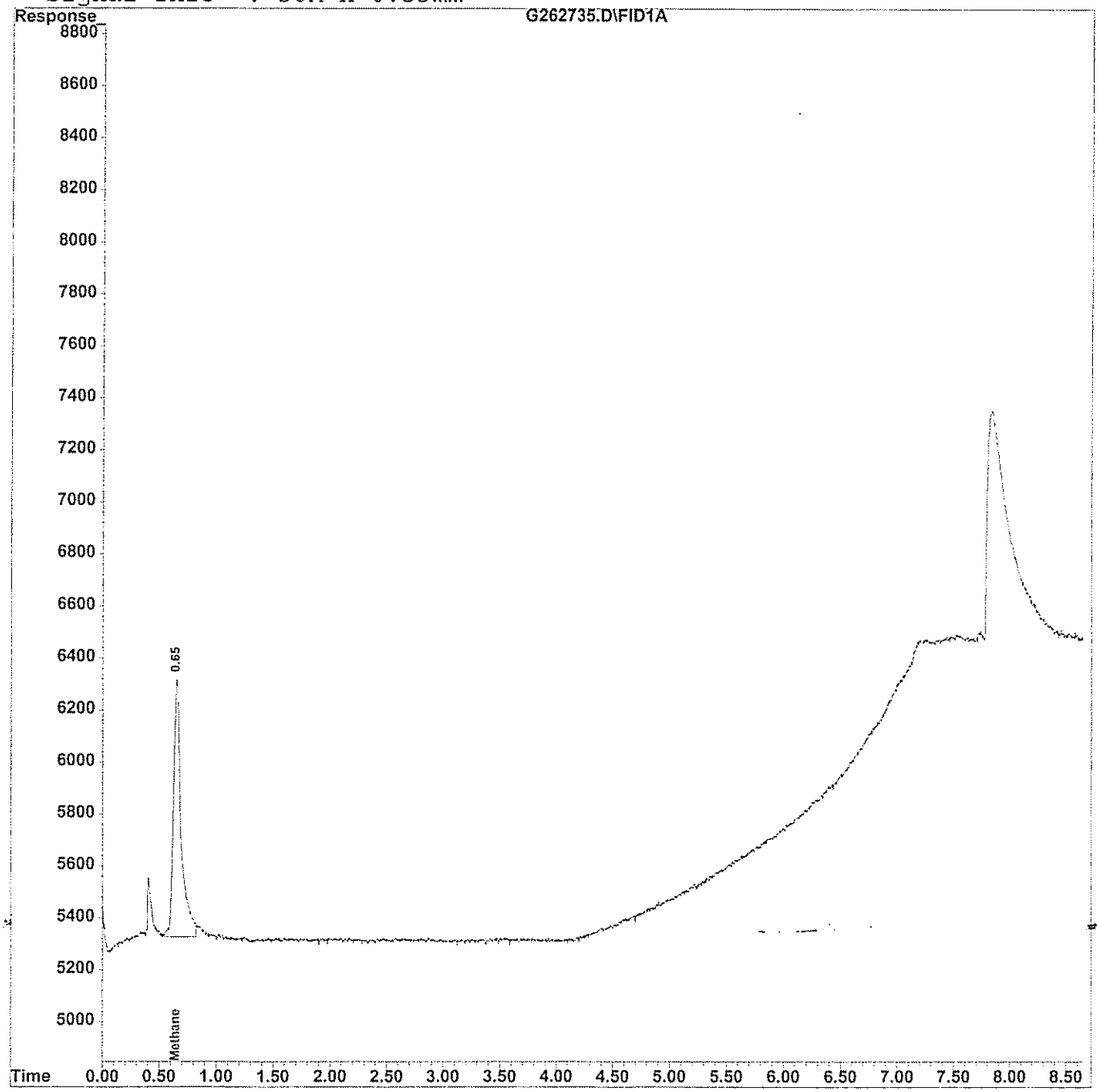
(f)=RT Delta > 1/2 Window (m)=manual int

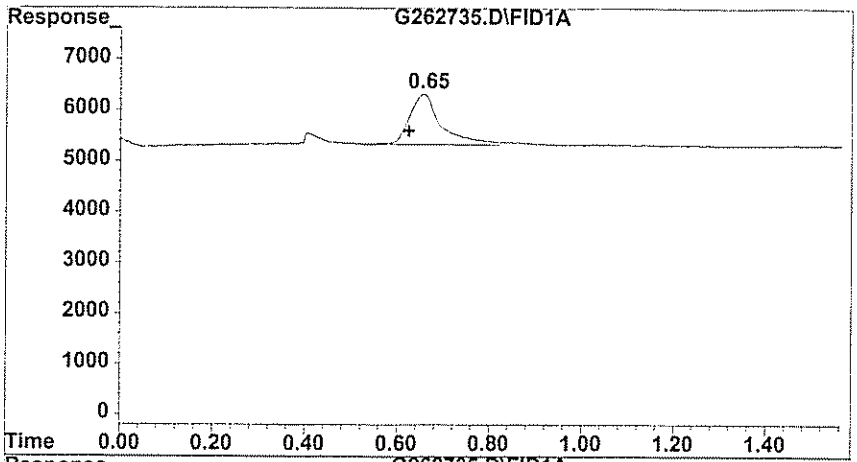
Quantitation Report

Data File : H:\GCDATA\G\033109\G262735.D Vial: 8
Acq On : 31 Mar 2009 9:37 Operator: TG
Sample : 903124-004 Inst : GC-G
Misc : OU1-52GW72-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 9:46 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

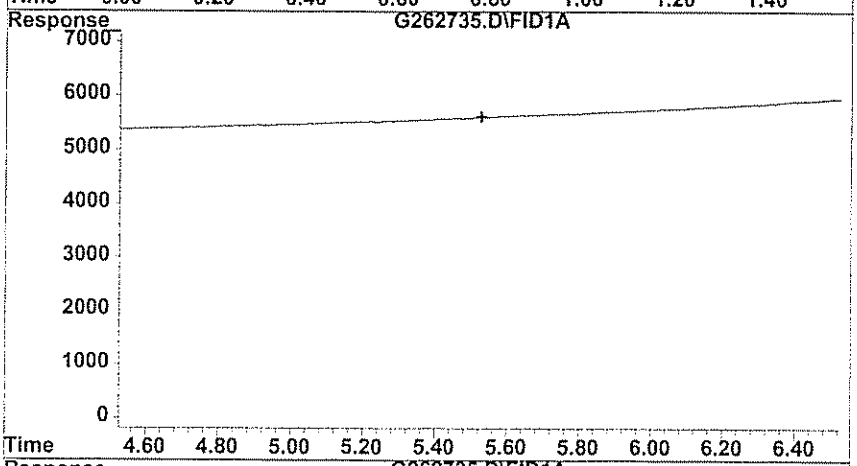
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





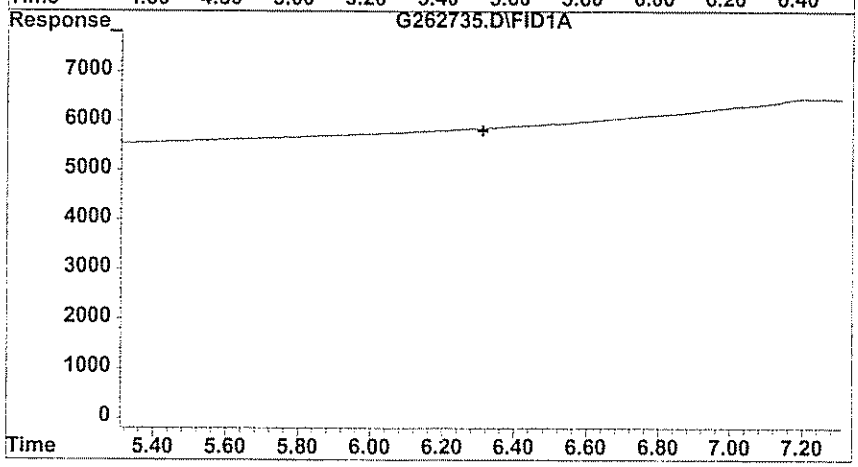
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.030 min
Response: 4738
Conc: 25.37 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-064-1/2
Sample Volume :	10	Lab File ID :	G262737.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	61	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262737.D Vial: 10
Acq On : 31 Mar 2009 10:08 Operator: TG
Sample : 903124-005 Inst : GC-G
Misc : OU1-52GW72-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 10:19 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.65	11412	61.112	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

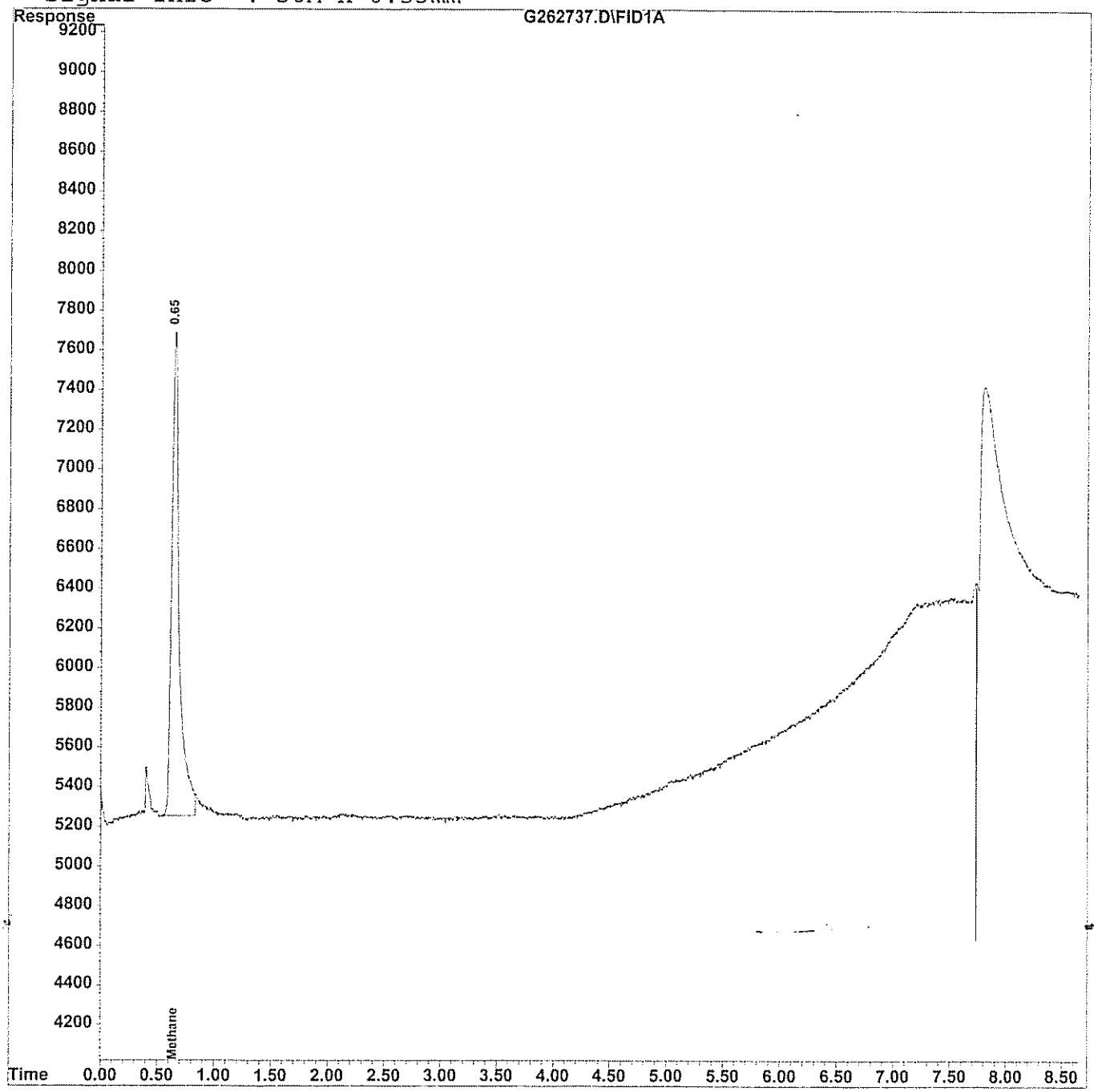
(f)=RT Delta > 1/2 Window (m)=manual int

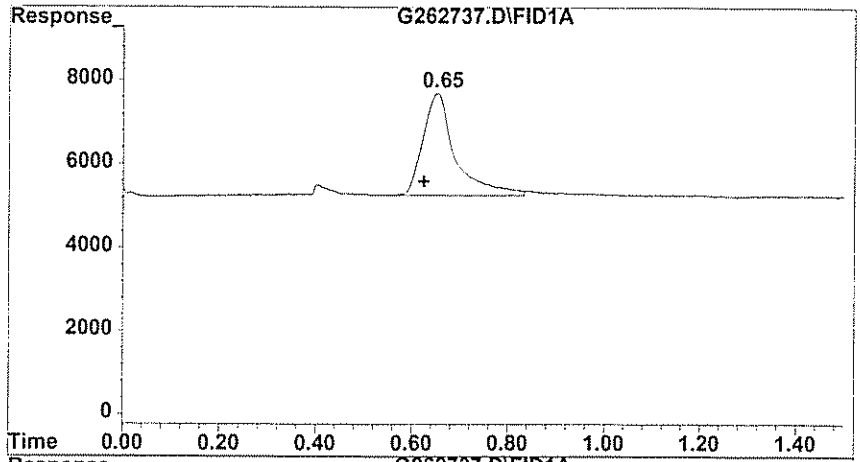
Quantitation Report

Data File : H:\GCDATA\G\033109\G262737.D Vial: 10
Acq On : 31 Mar 2009 10:08 Operator: TG
Sample : 903124-005 Inst : GC-G
Misc : OU1-52GW72-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 10:19 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

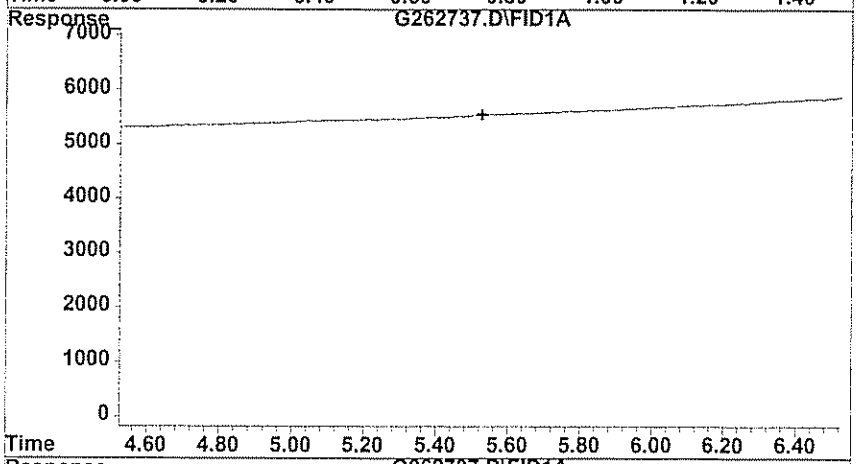
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





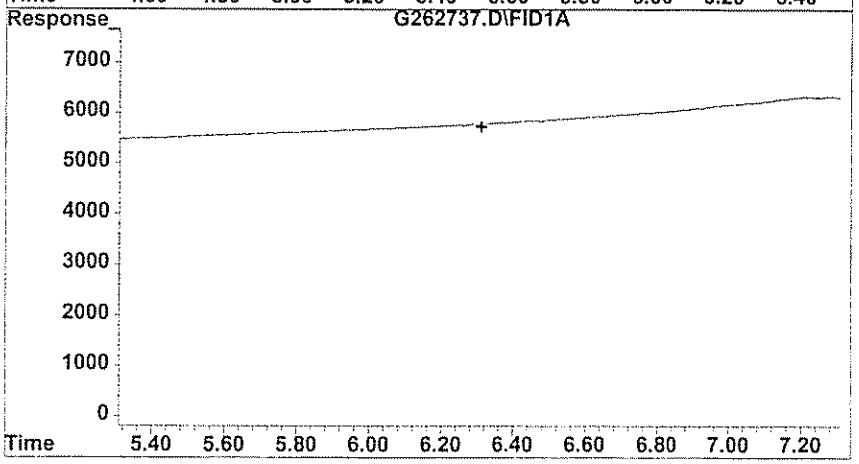
#1 Methane

R.T.:	0.650 min
Delta R.T.:	0.027 min
Response:	11412
Conc:	61.11 ppb



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.527 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.310 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW48-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-005-065-2/2
Sample Volume :	2	Lab File ID :	G262741.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	5
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	31	U
74-85-1	Ethene	29	U
74-82-8	Methane	43	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262741.D Vial: 14
Acq On : 31 Mar 2009 11:07 Operator: TG
Sample : 903124-005DL Inst : GC-G
Misc : OU1-52GW48-0309,CH2M,WATER,2ML,5X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 11:16 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.66	1603	8.584	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

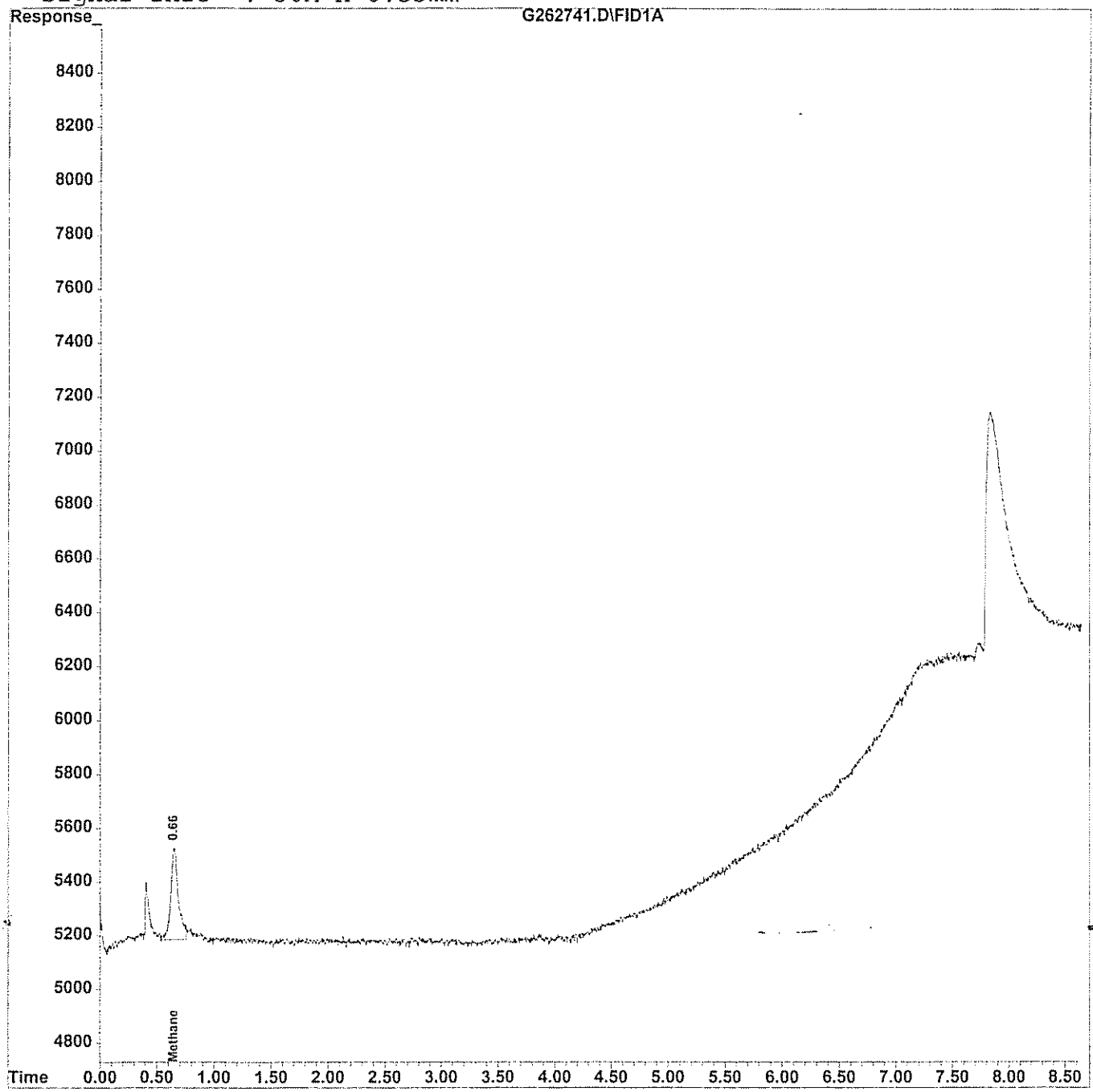
(f)=RT Delta > 1/2 Window (m)=manual int

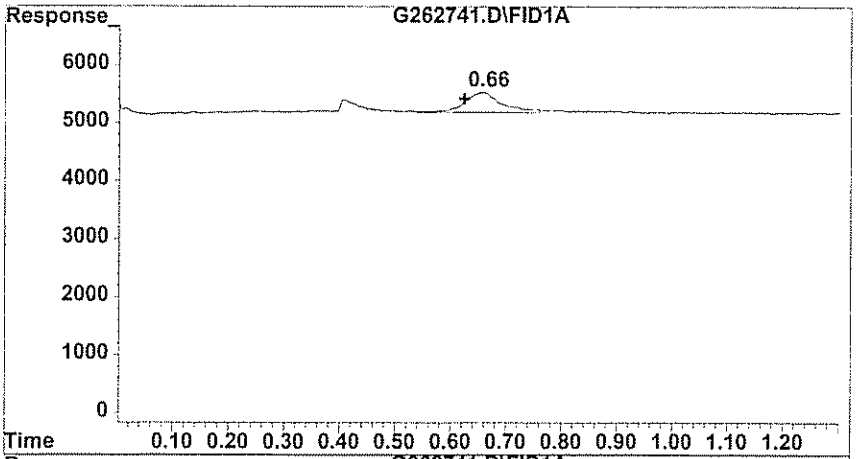
Quantitation Report

Data File : H:\GCDATA\G\033109\G262741.D Vial: 14
Acq On : 31 Mar 2009 11:07 Operator: TG
Sample : 903124-005DL Inst : GC-G
Misc : OU1-52GW48-0309,CH2M,WATER,2ML,5X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 11:16 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

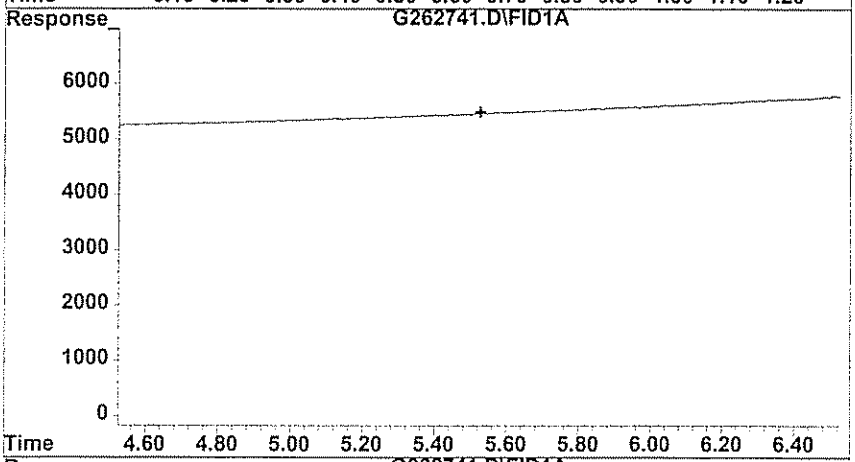
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





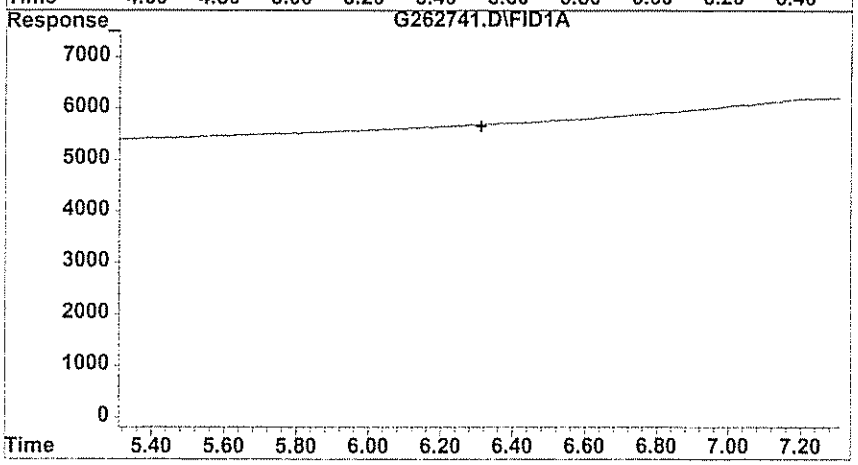
#1 Methane

R.T.:	0.657 min
Delta R.T.:	0.033 min
Response:	1603
Conc:	8.58 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.527 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.310 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-066-1/2
Sample Volume :	10	Lab File ID :	G262738.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	170	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262738.D Vial: 11
Acq On : 31 Mar 2009 10:22 Operator: TG
Sample : 903124-006 Inst : GC-G
Misc : OU1-52GW56-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 10:34 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	32250	172.699	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

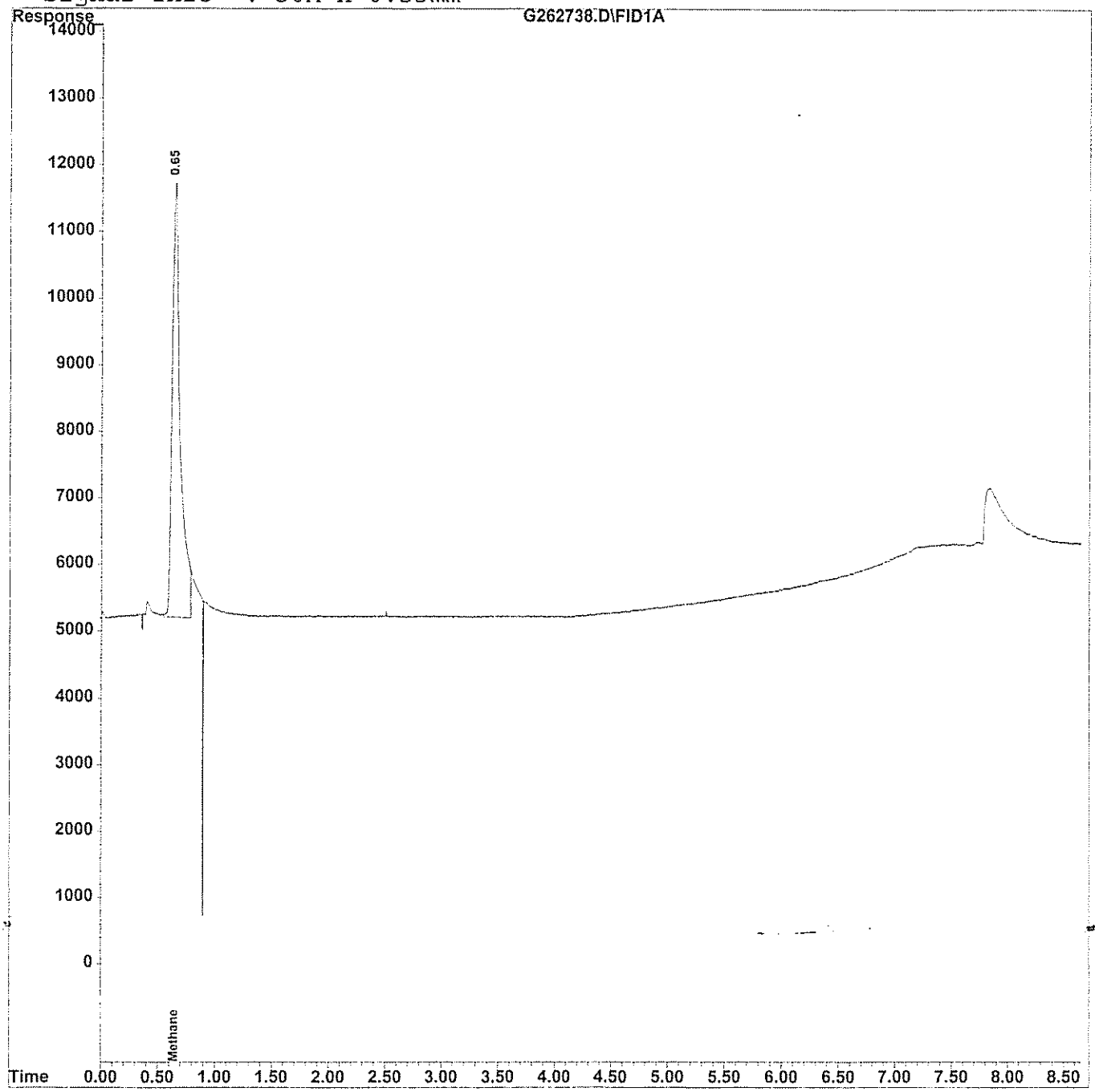
(f)=RT Delta > 1/2 Window (m)=manual int

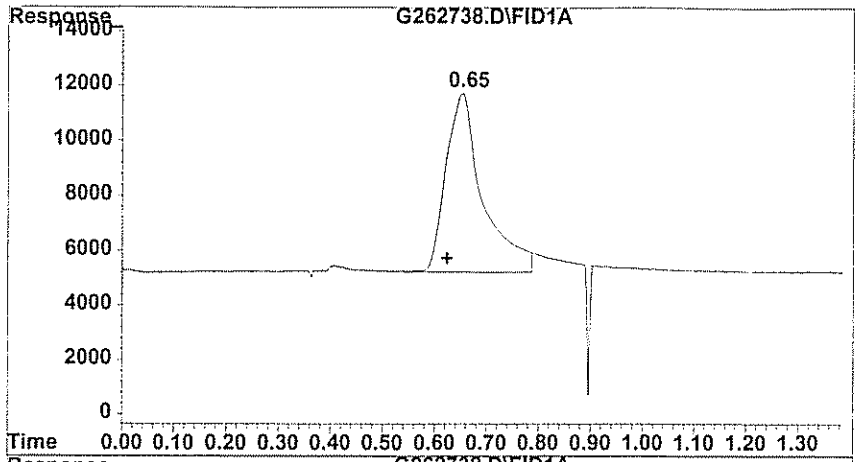
Quantitation Report

Data File : H:\GCDATA\G\033109\G262738.D Vial: 11
Acq On : 31 Mar 2009 10:22 Operator: TG
Sample : 903124-006 Inst : GC-G
Misc : OU1-52GW56-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 10:34 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

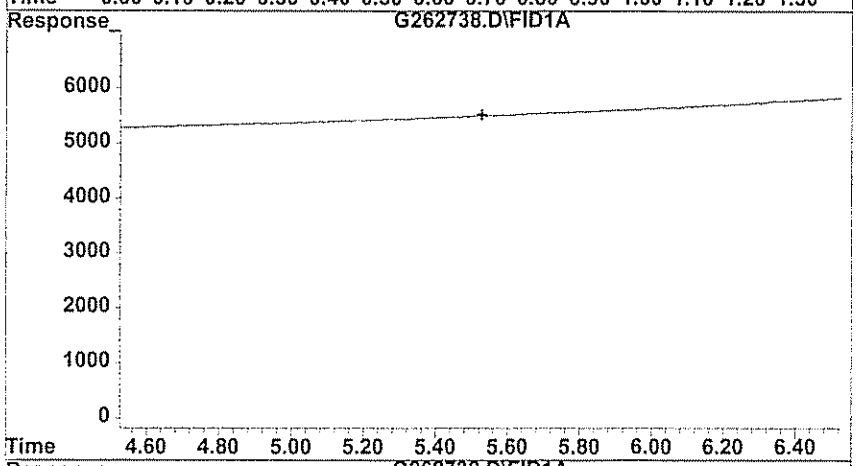
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





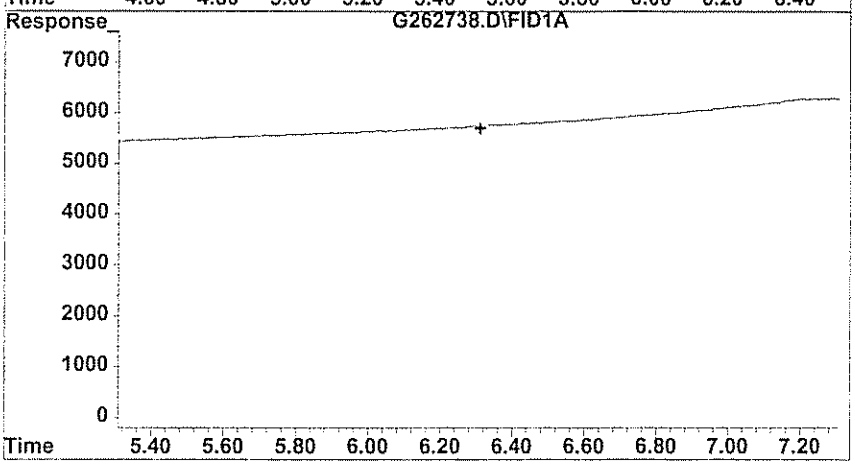
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.030 min
Response: 32250
Conc: 172.70 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW56-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-006-067-2/2
Sample Volume :	1	Lab File ID :	G262742.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	160	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262742.D Vial: 15
Acq On : 31 Mar 2009 11:22 Operator: TG
Sample : 903124-006DL Inst : GC-G
Misc : OU1-52GW56-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 11:33 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	3072	16.451	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

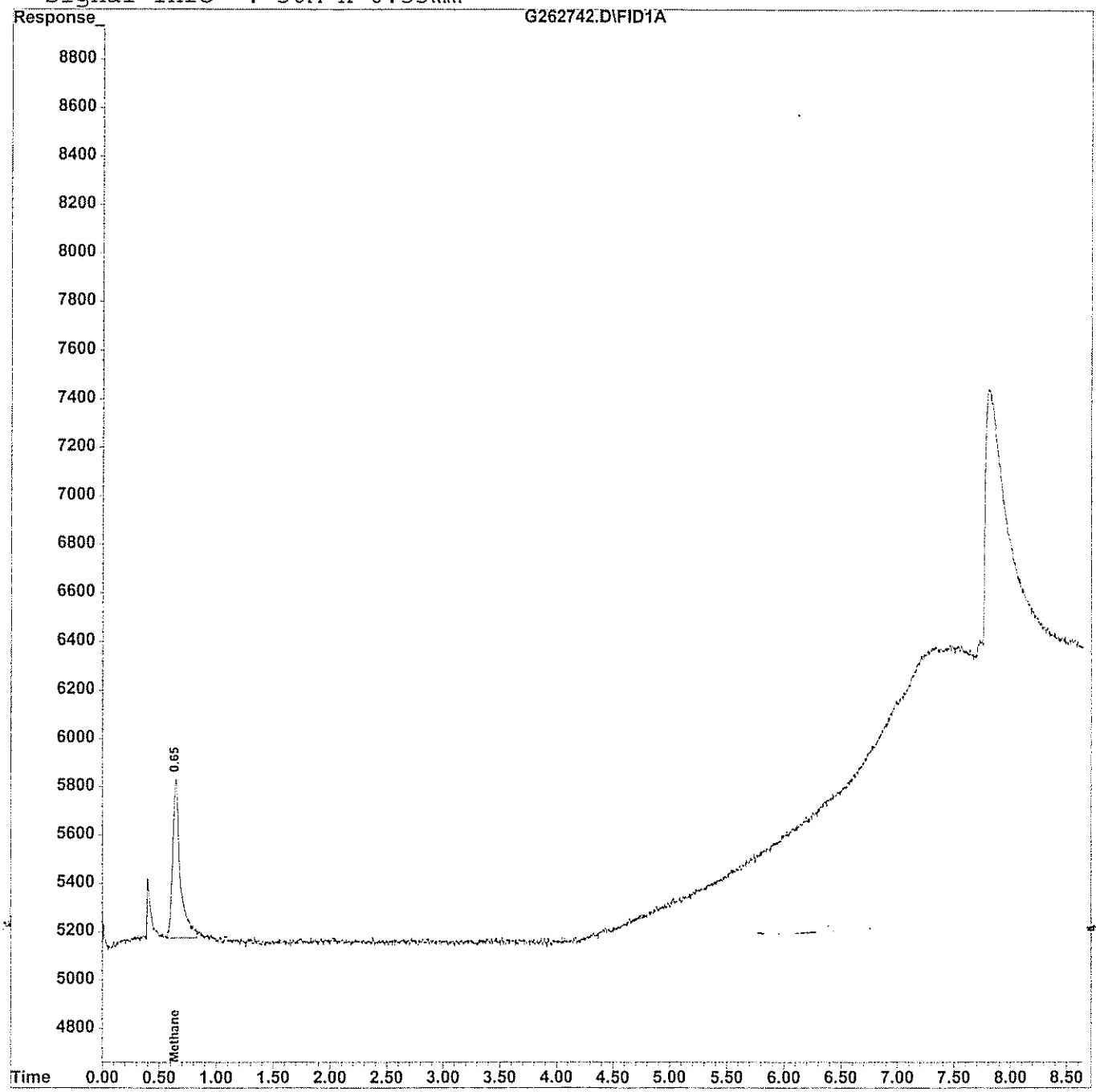
(f)=RT Delta > 1/2 Window (m)=manual int

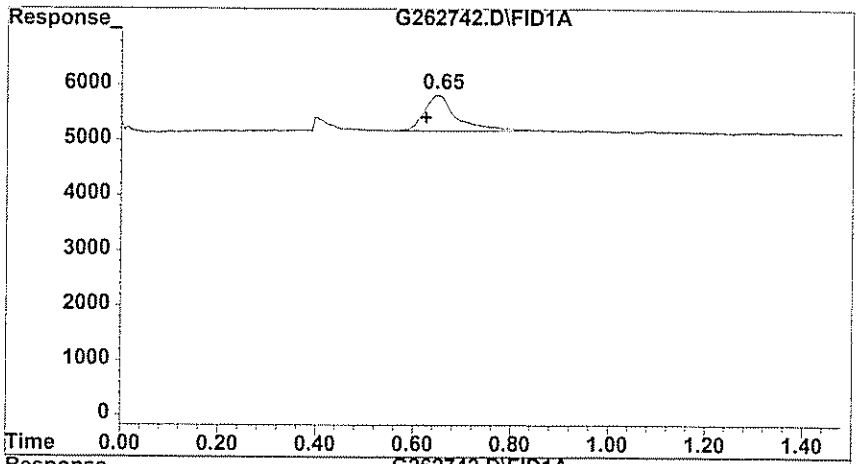
Quantitation Report

Data File : H:\GCDATA\G\033109\G262742.D Vial: 15
Acq On : 31 Mar 2009 11:22 Operator: TG
Sample : 903124-006DL Inst : GC-G
Misc : OU1-52GW56-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 11:33 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

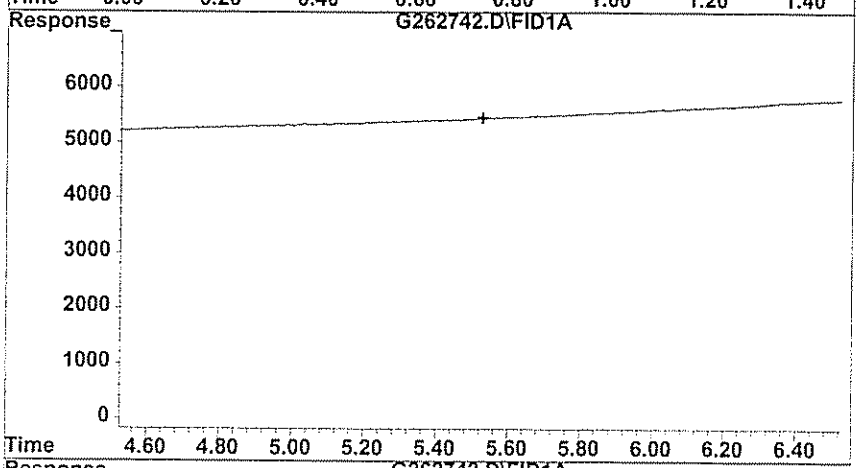
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





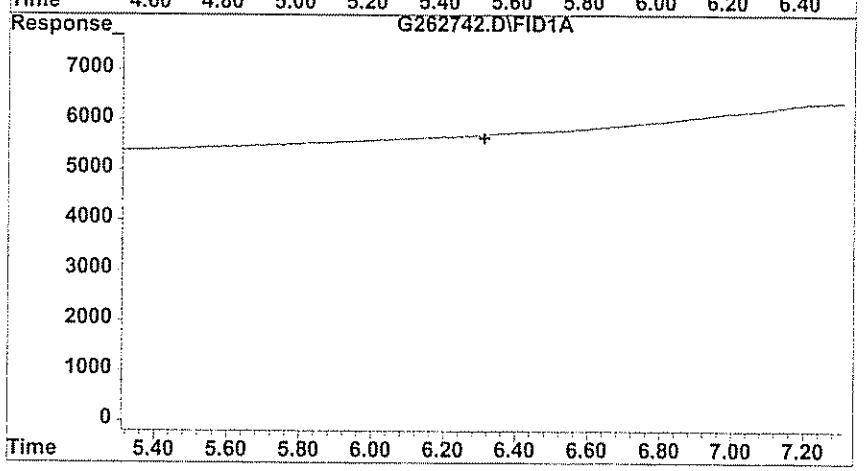
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.023 min
Response: 3072
Conc: 16.45 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-068-1/2
Sample Volume :	10	Lab File ID :	G262743.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	120	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262743.D Vial: 16
Acq On : 31 Mar 2009 11:37 Operator: TG
Sample : 903124-007 Inst : GC-G
Misc : OU1-52GW39-0309,CH2M,WATER,1OML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 11:47 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.65	21544	115.369	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

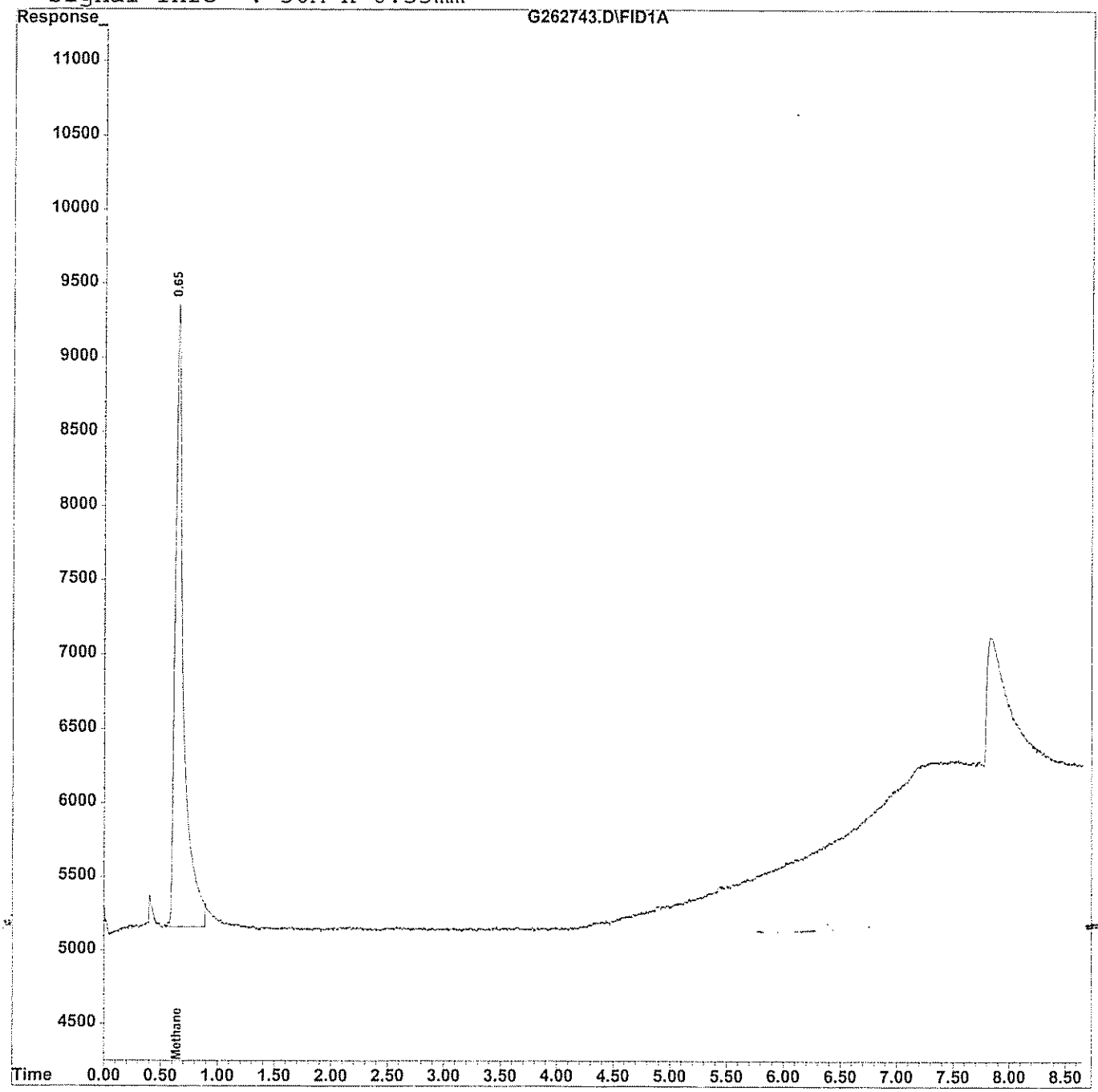
(f)=RT Delta > 1/2 Window (m)=manual int

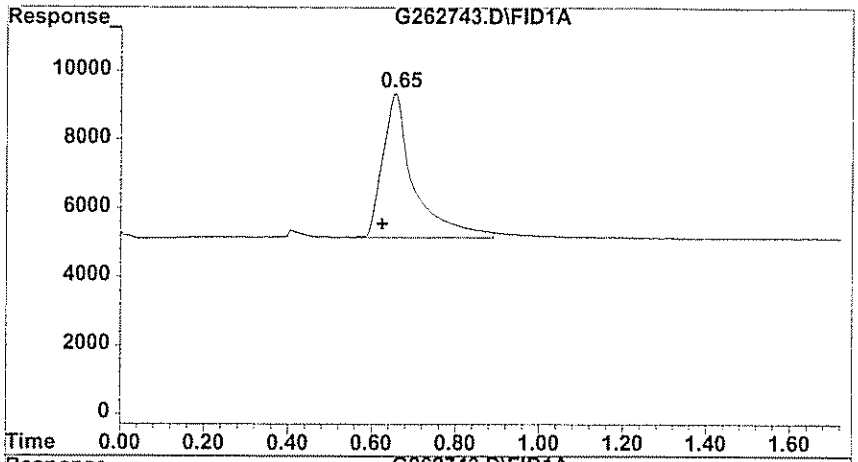
Quantitation Report

Data File : H:\GCDATA\G\033109\G262743.D Vial: 16
Acq On : 31 Mar 2009 11:37 Operator: TG
Sample : 903124-007 Inst : GC-G
Misc : OU1-52GW39-0309,CH2M,WATER,1OML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 11:47 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

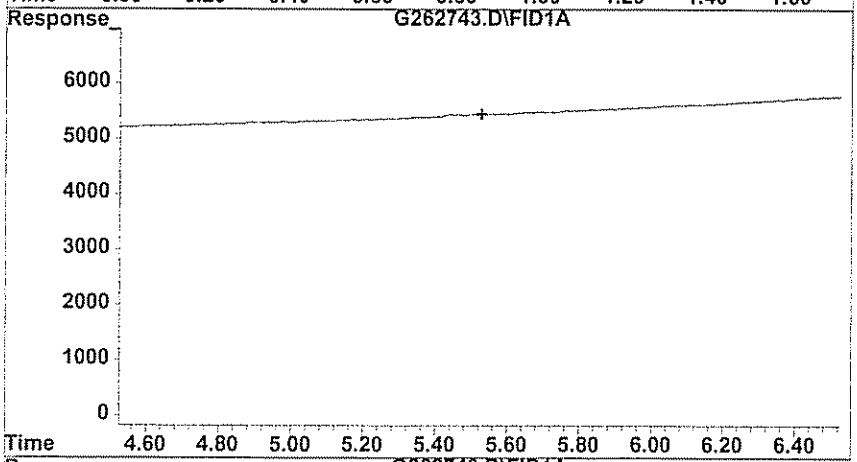
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





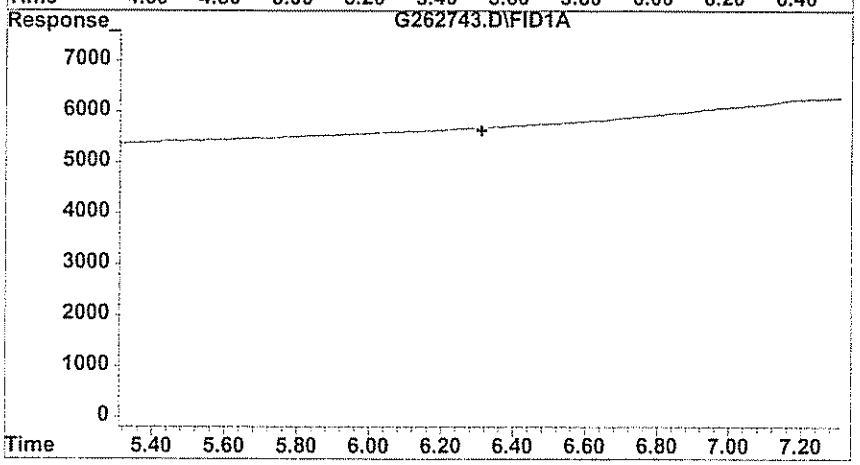
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.030 min
Response: 21544
Conc: 115.37 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW39-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-007-069-2/2
Sample Volume :	1	Lab File ID :	G262745.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	120	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262745.D Vial: 18
Acq On : 31 Mar 2009 12:08 Operator: TG
Sample : 903124-007DL Inst : GC-G
Misc : OU1-52GW39-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 12:18 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	2202	11.792	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

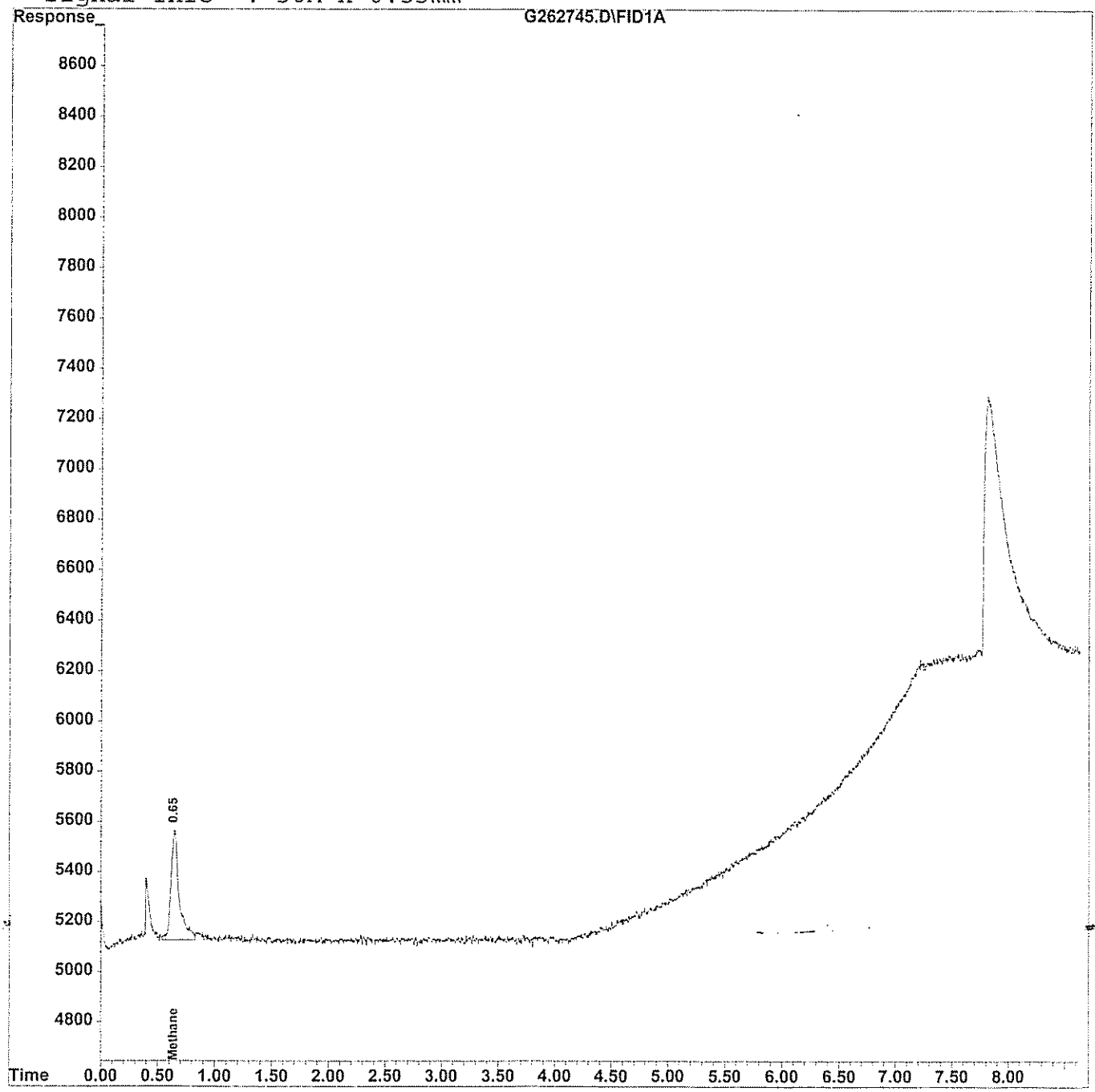
(f)=RT Delta > 1/2 Window (m)=manual int

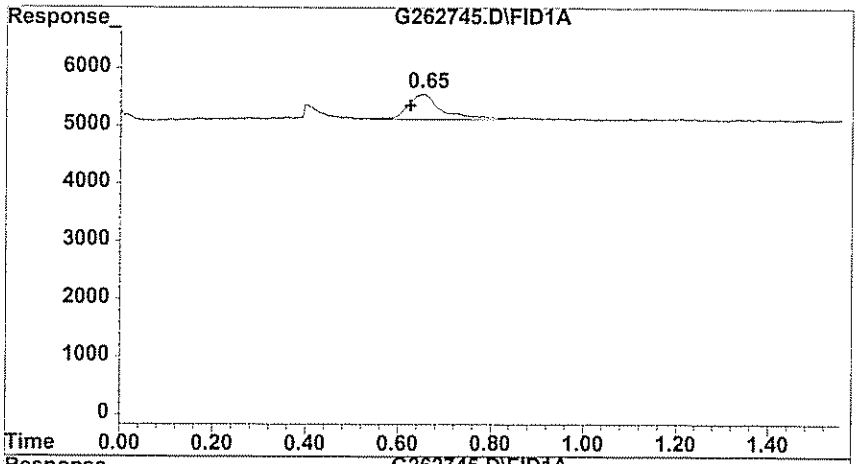
Quantitation Report

Data File : H:\GCDATA\G\033109\G262745.D Vial: 18
Acq On : 31 Mar 2009 12:08 Operator: TG
Sample : 903124-007DL Inst : GC-G
Misc : OU1-52GW39-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 12:18 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

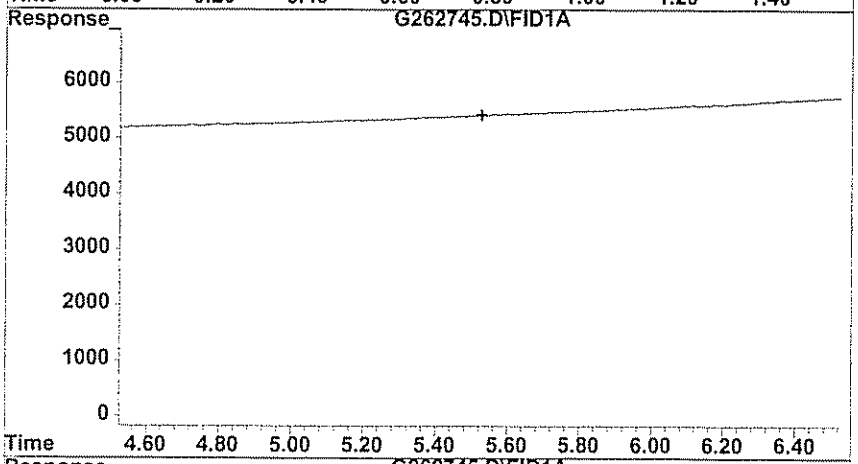
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





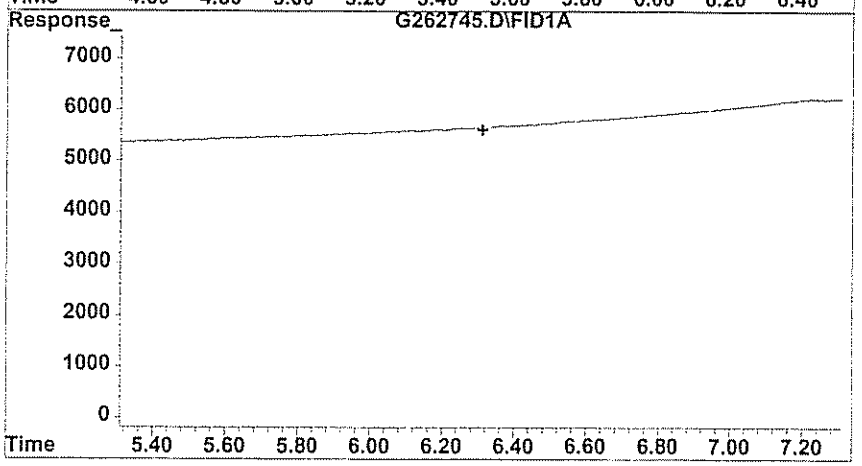
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.027 min
Response: 2202
Conc: 11.79 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-070-1/2
Sample Volume :	10	Lab File ID :	G262744.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	81	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262744.D Vial: 17
Acq On : 31 Mar 2009 11:51 Operator: TG
Sample : 903124-008 Inst : GC-G
Misc : OU1-52GW58-0309,CH2M,WATER,1OML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 12:02 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	15116	80.947	ppb	
2) T	Ethane	0.00	0	N.D.	ppb	d
3) T	Ethylene	0.00	0	N.D.	ppb	

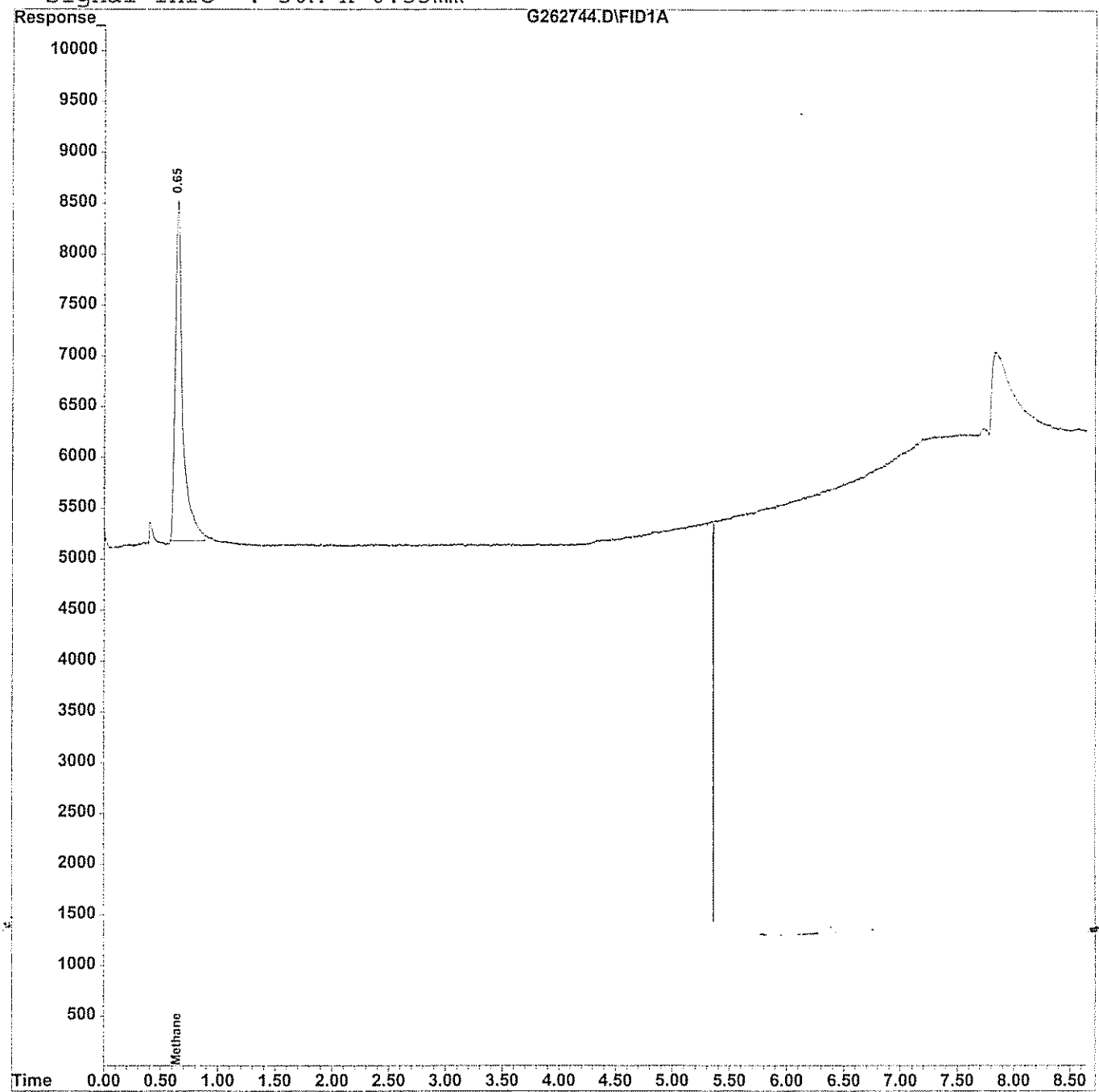
(f)=RT Delta > 1/2 Window (m)=manual int

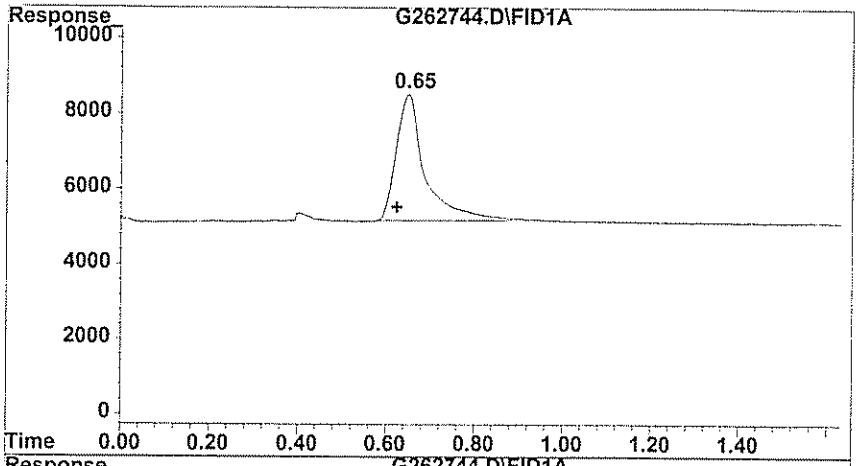
Quantitation Report

Data File : H:\GCDATA\G\033109\G262744.D Vial: 17
Acq On : 31 Mar 2009 11:51 Operator: TG
Sample : 903124-008 Inst : GC-G
Misc : OU1-52GW58-0309,CH2M,WATER,1OML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 12:02 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

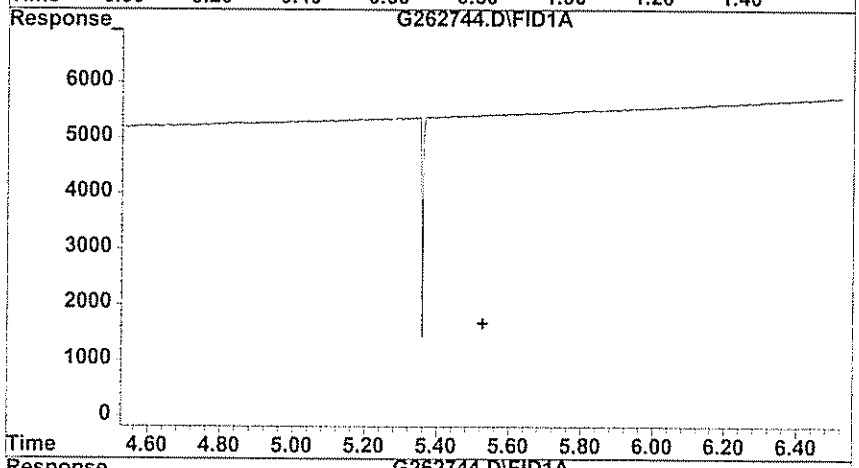
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





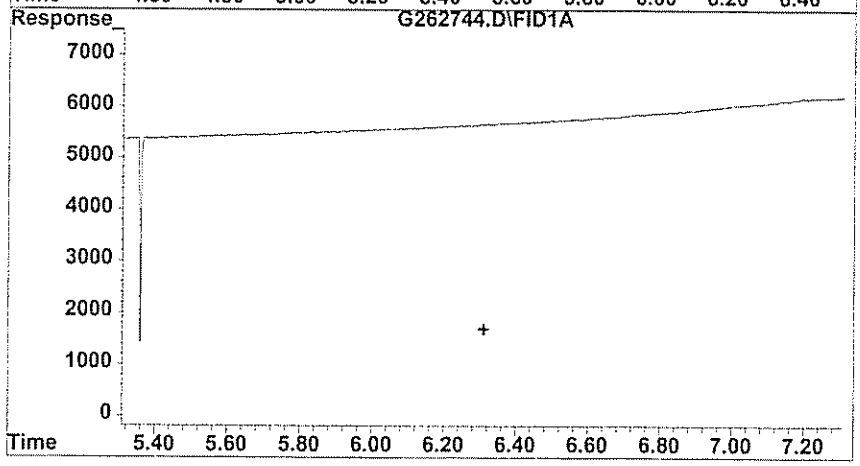
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.027 min
Response: 15116
Conc: 80.95 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW58-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-008-071-2/2
Sample Volume :	1	Lab File ID :	G262746.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	80	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262746.D Vial: 19
Acq On : 31 Mar 2009 12:22 Operator: TG
Sample : 903124-008DL Inst : GC-G
Misc : OU1-52GW58-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 12:32 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.66	1498	8.022	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int

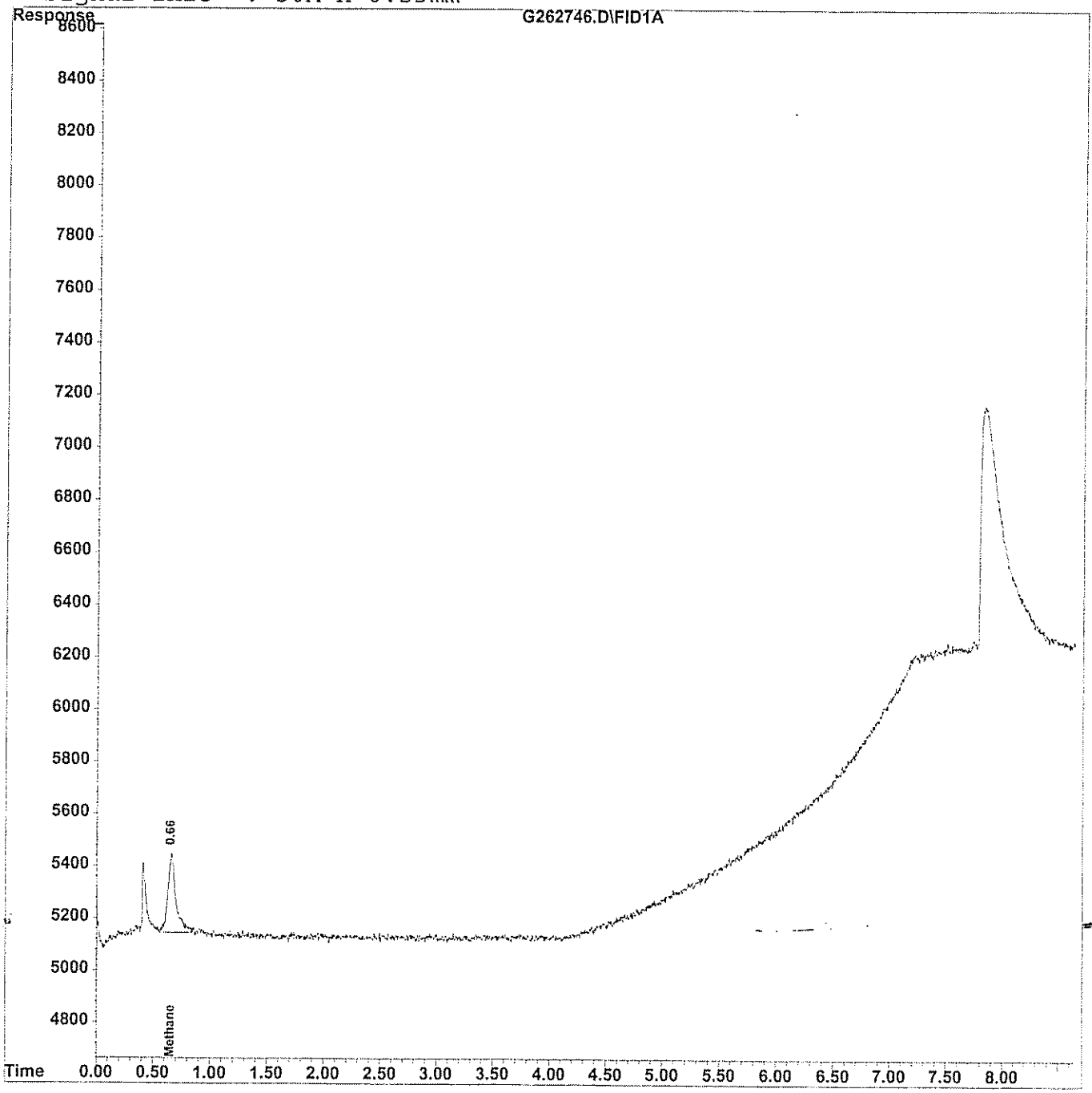
Quantitation Report

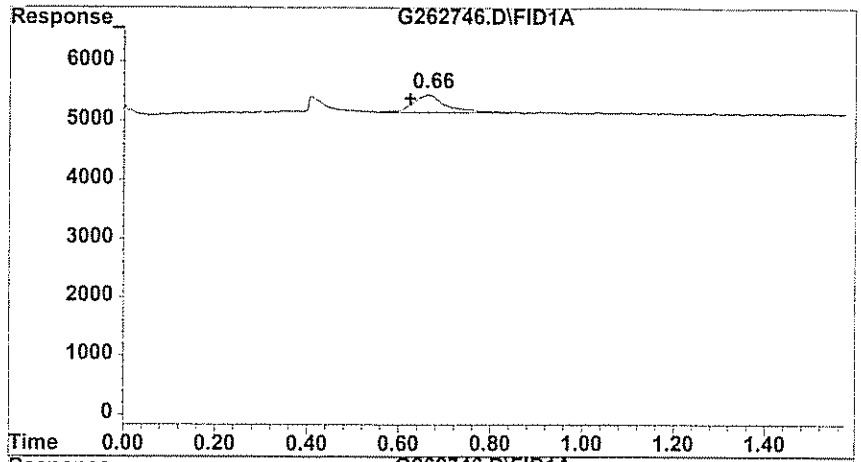
Data File : H:\GCDATA\G\033109\G262746.D
Acq On : 31 Mar 2009 12:22
Sample : 903124-008DL
Misc : OU1-52GW58-0309,CH2M,WATER,1ML,10X
IntFile : rteint.p
Quant Time: Mar 31 12:32 2009 Quant Results File: RSK0327.RES

Vial: 19
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

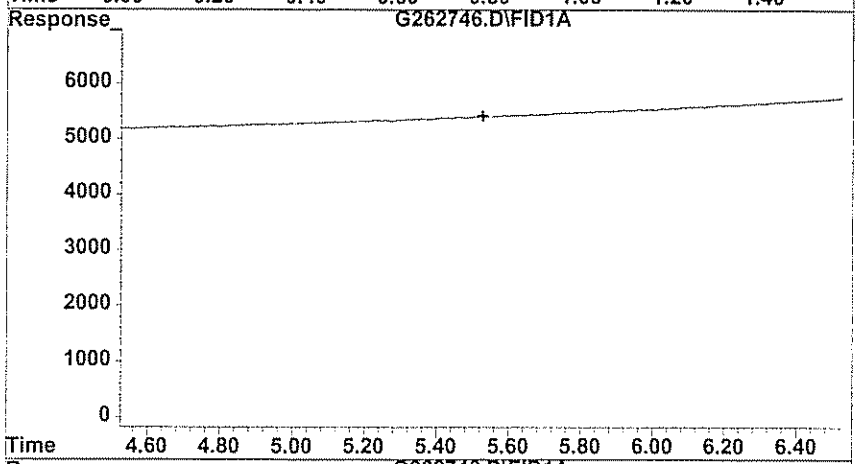
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





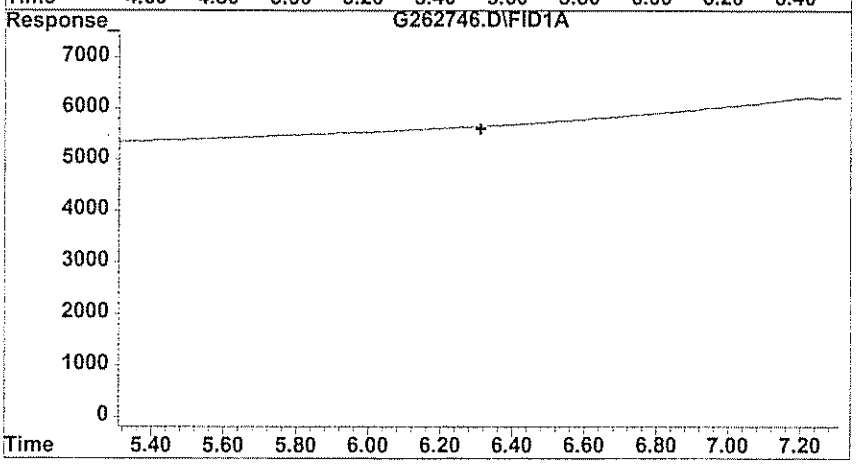
#1 Methane

R.T.: 0.660 min
Delta R.T.: 0.037 min
Response: 1498
Conc: 8.02 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-072-1/2
Sample Volume :	10	Lab File ID :	G262747.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	89	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262747.D Vial: 20
Acq On : 31 Mar 2009 12:51 Operator: TG
Sample : 903124-009 Inst : GC-G
Misc : OU1-52GW55-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 13:01 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.65	16620	89.000	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int

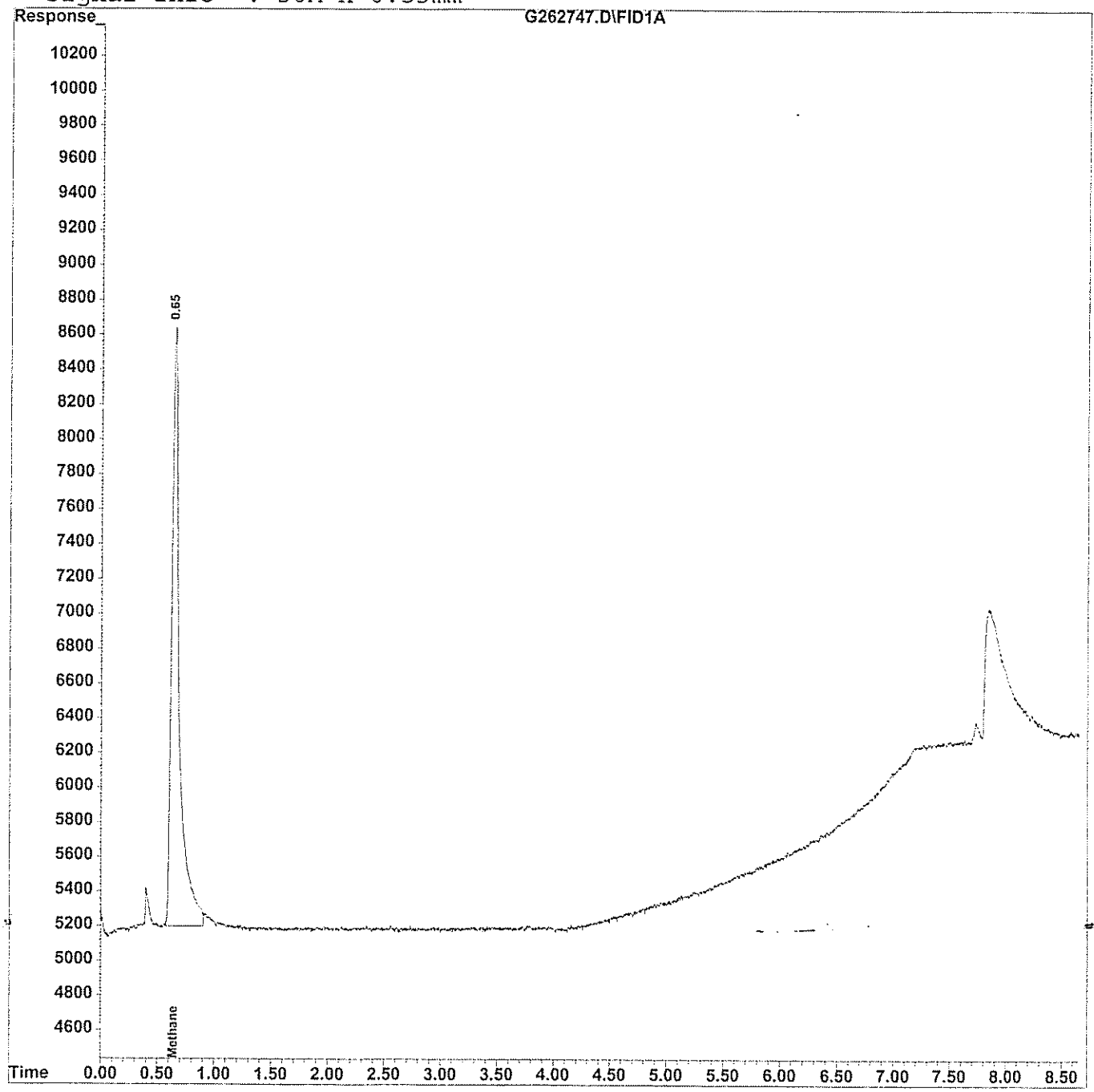
Quantitation Report

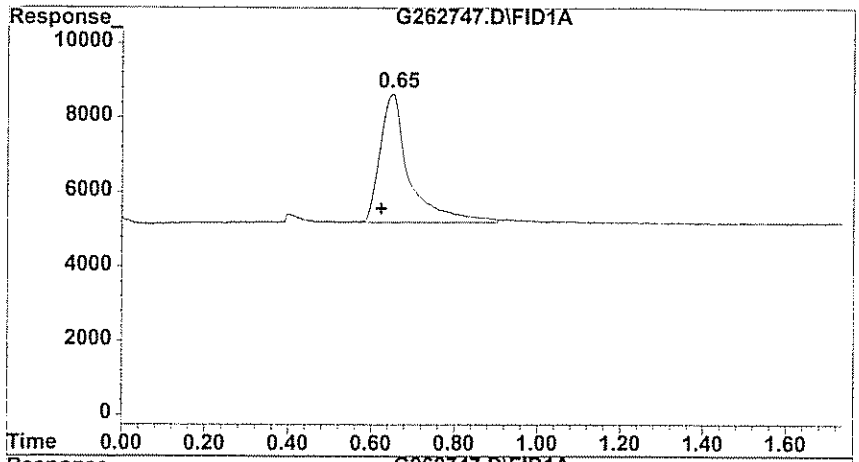
Data File : H:\GCDATA\G\033109\G262747.D
Acq On : 31 Mar 2009 12:51
Sample : 903124-009
Misc : OU1-52GW55-0309,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 31 13:01 2009 Quant Results File: RSK0327.RES

Vial: 20
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

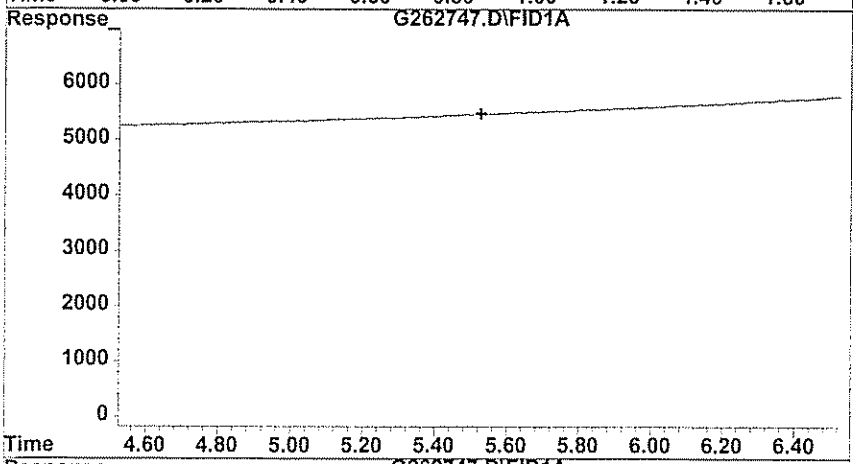
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





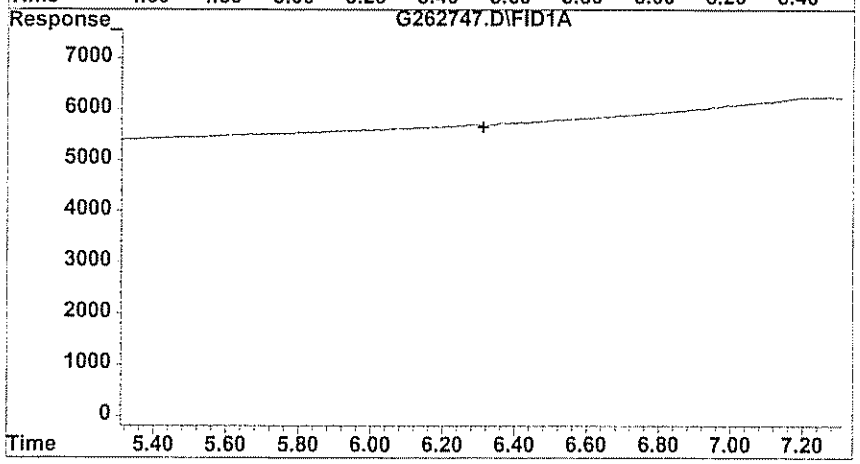
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.027 min
Response: 16620
Conc: 89.00 ppb



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW55-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-009-073-2/2
Sample Volume :	1	Lab File ID :	G262749.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	110	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262749.D Vial: 22
Acq On : 31 Mar 2009 13:23 Operator: TG
Sample : 903124-009DL Inst : GC-G
Misc : OU1-52GW55-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 13:32 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	1981	10.608	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

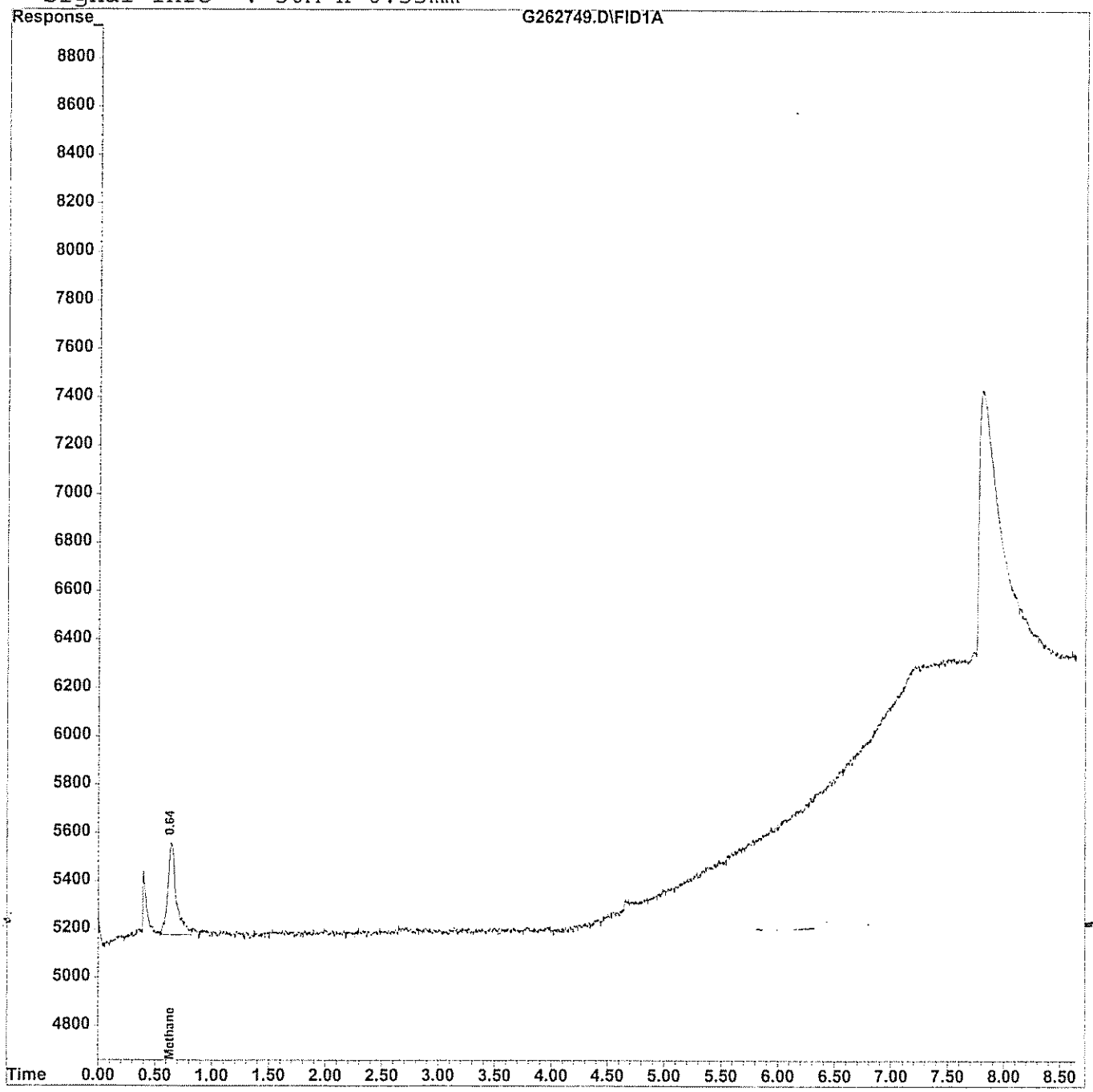
(f)=RT Delta > 1/2 Window (m)=manual int

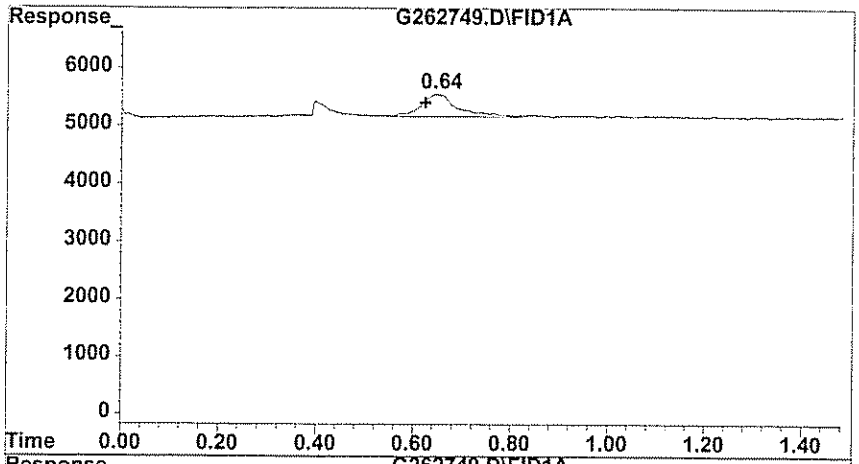
Quantitation Report

Data File : H:\GCDATA\G\033109\G262749.D Vial: 22
Acq On : 31 Mar 2009 13:23 Operator: TG
Sample : 903124-009DL Inst : GC-G
Misc : OU1-52GW55-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 13:32 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

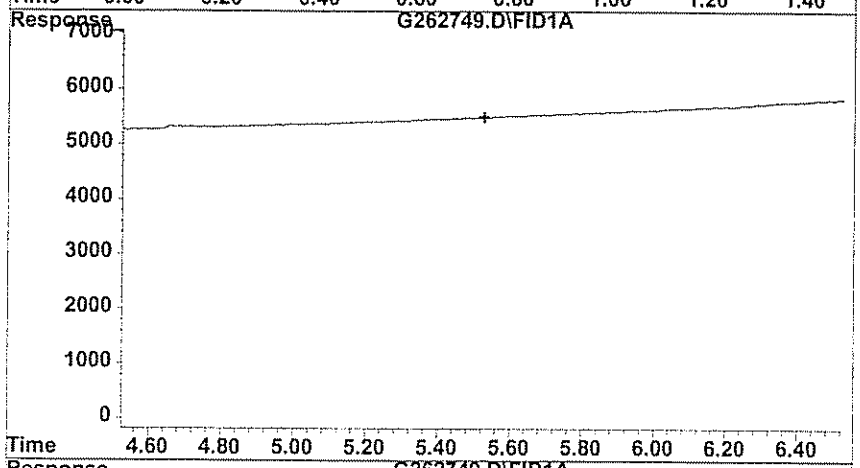
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





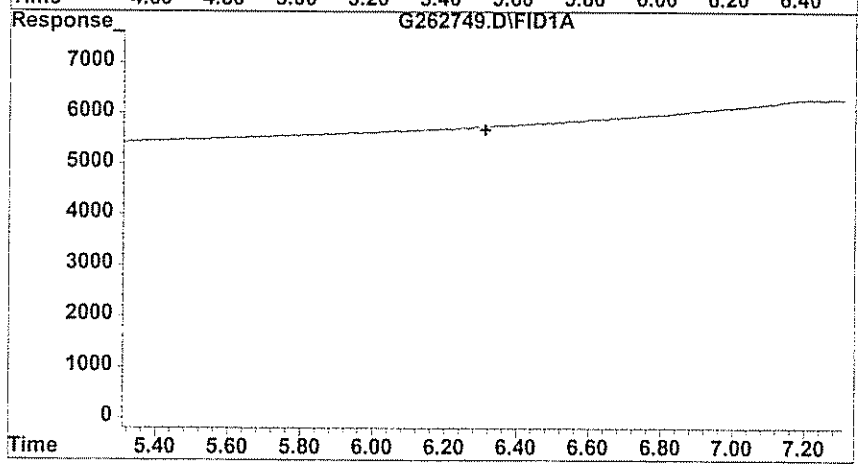
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.020 min
Response: 1981
Conc: 10.61 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-074-1/2
Sample Volume :	10	Lab File ID :	G262748.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	210	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262748.D Vial: 21
Acq On : 31 Mar 2009 13:06 Operator: TG
Sample : 903124-010 Inst : GC-G
Misc : OU1-52GW57-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 13:15 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) T	Methane	0.65	39250	210.185	ppb
2) T	Ethane	0.00	0	N.D.	ppb
3) T	Ethylene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int

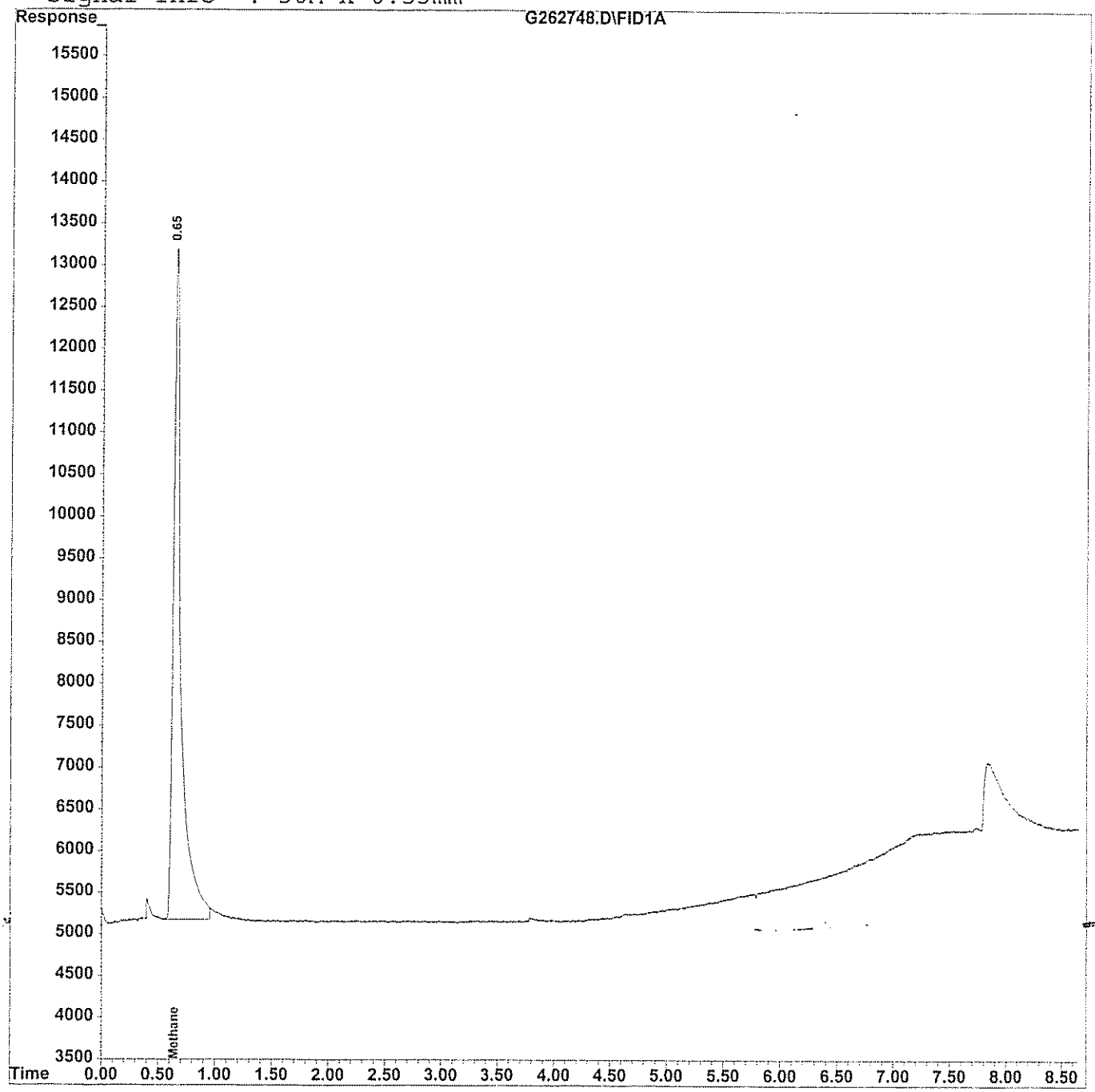
Quantitation Report

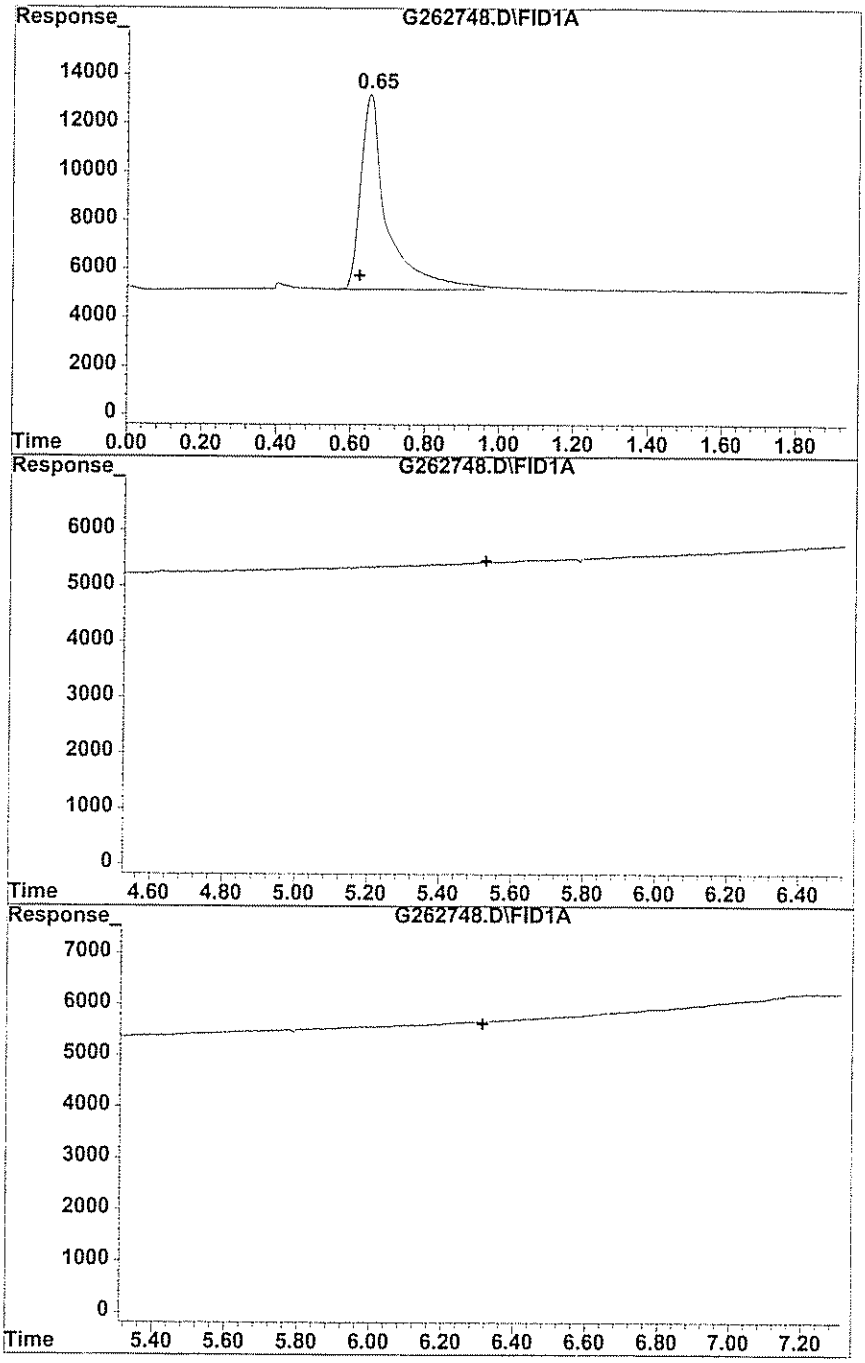
Data File : H:\GCDATA\G\033109\G262748.D
Acq On : 31 Mar 2009 13:06
Sample : 903124-010
Misc : OU1-52GW57-0309,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 31 13:15 2009 Quant Results File: RSK0327.RES

Vial: 21
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.030 min
Response: 39250
Conc: 210.18 ppb

#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.

#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW57-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-010-075-2/2
Sample Volume :	1	Lab File ID :	G262750.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	110	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262750.D Vial: 23
Acq On : 31 Mar 2009 13:37 Operator: TG
Sample : 903124-010DL Inst : GC-G
Misc : OU1-52GW57-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 14:05 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) T Methane	0.65	2121	11.358	ppb	m
2) T Ethane	0.00	0	N.D.	ppb	
3) T Ethylene	0.00	0	N.D.	ppb	

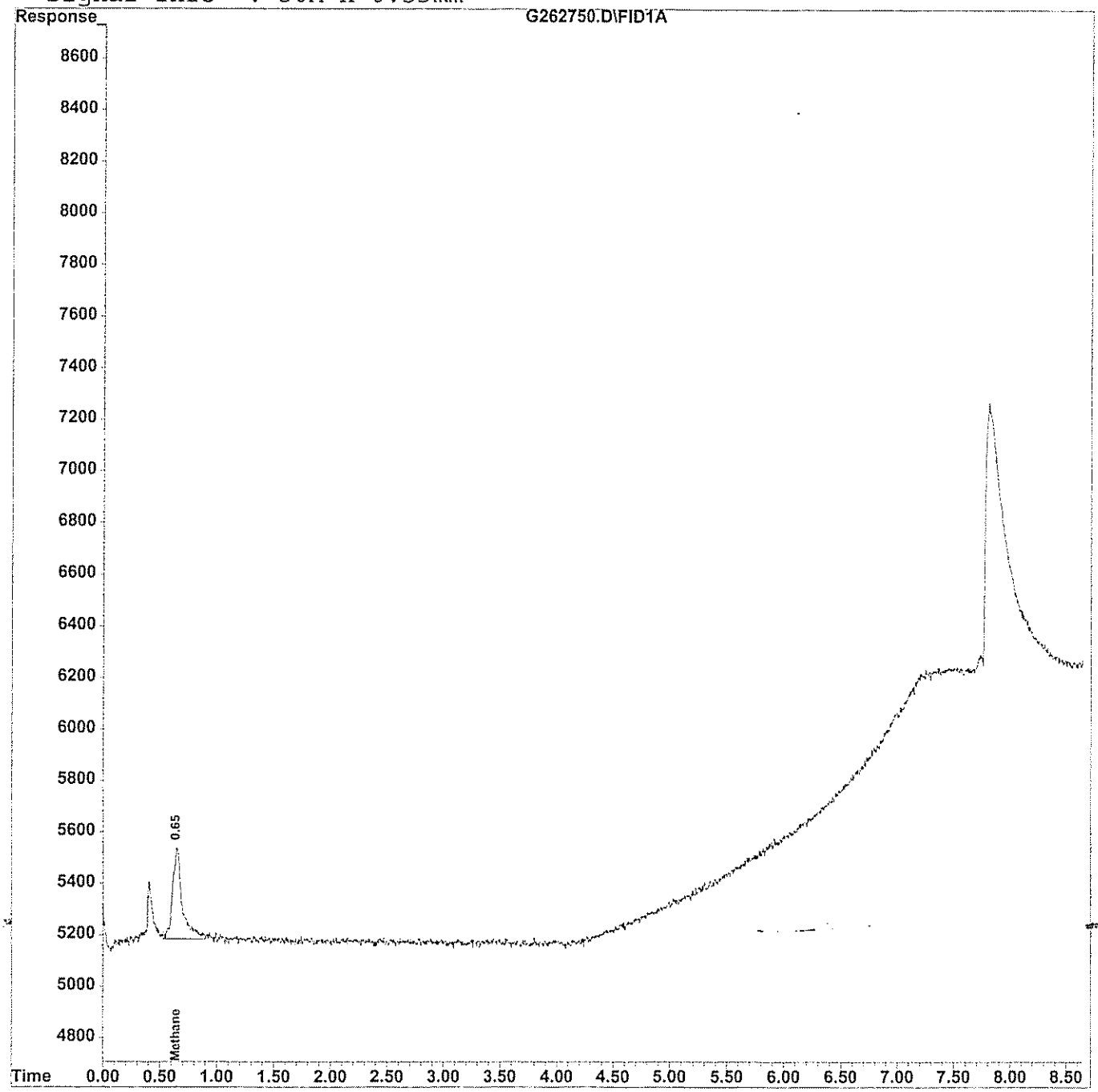
(f)=RT Delta > 1/2 Window (m)=manual int

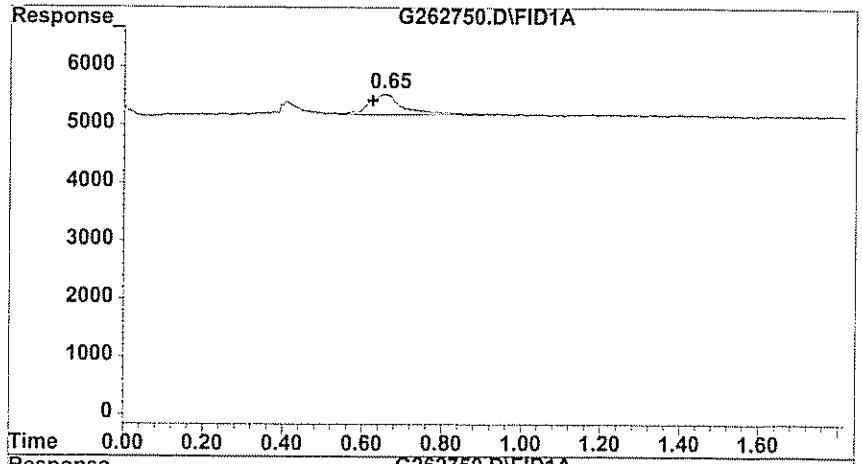
Quantitation Report

Data File : H:\GCDATA\G\033109\G262750.D Vial: 23
Acq On : 31 Mar 2009 13:37 Operator: TG
Sample : 903124-010DL Inst : GC-G
Misc : OU1-52GW57-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 14:05 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

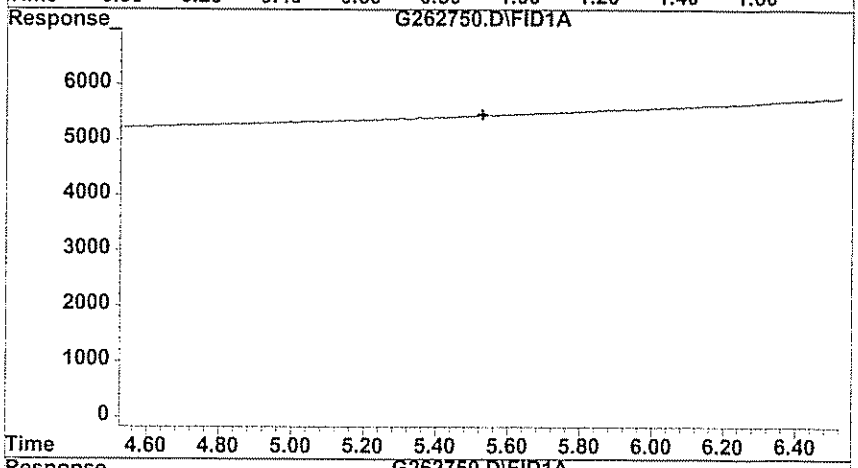
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





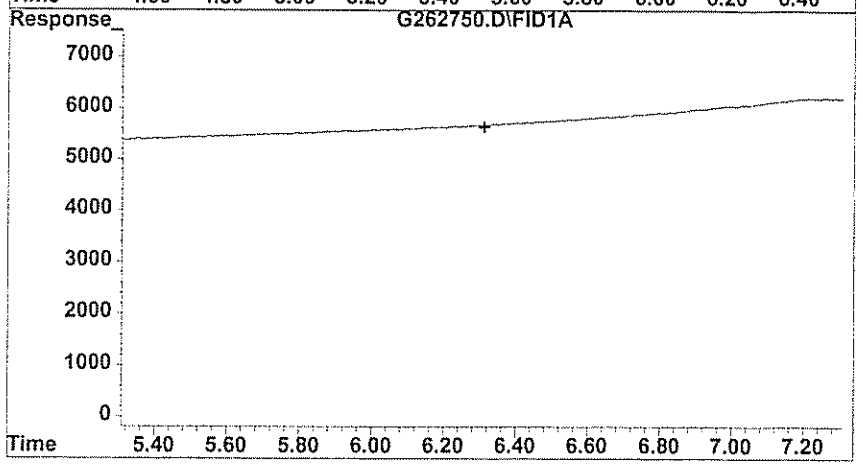
#1 Methane

R.T.: 0.653 min
Delta R.T.: 0.030 min
Response: 2121
Conc: 11.36 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-076-1/2
Sample Volume :	10	Lab File ID :	G262754.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	47	E

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262754.D Vial: 27
Acq On : 31 Mar 2009 14:52 Operator: TG
Sample : 903124-011 Inst : GC-G
Misc : OU1-52GW38-0309,CH2M,WATER,10ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 15:02 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	8710	46.642	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int

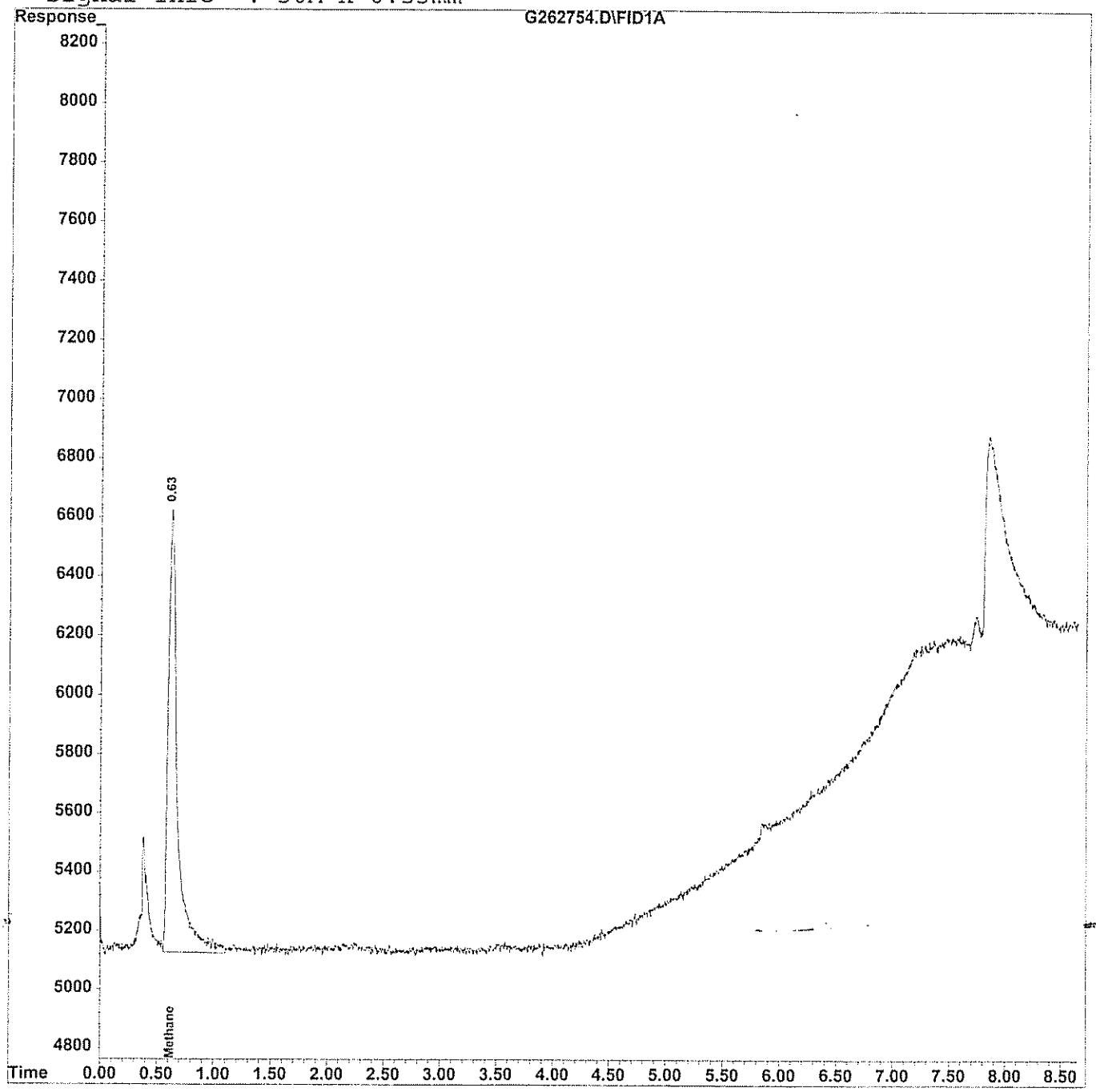
Quantitation Report

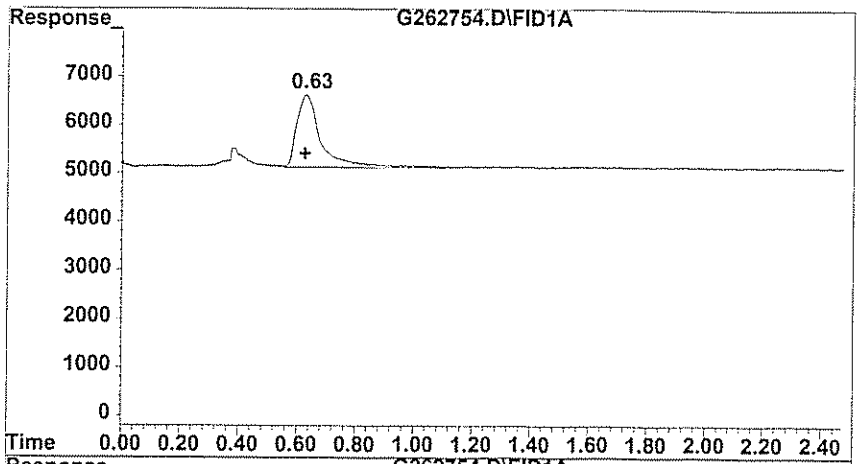
Data File : H:\GCDATA\G\033109\G262754.D
Acq On : 31 Mar 2009 14:52
Sample : 903124-011
Misc : OU1-52GW38-0309,CH2M,WATER,10ML
IntFile : rteint.p
Quant Time: Mar 31 15:02 2009 Quant Results File: RSK0327.RES

Vial: 27
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

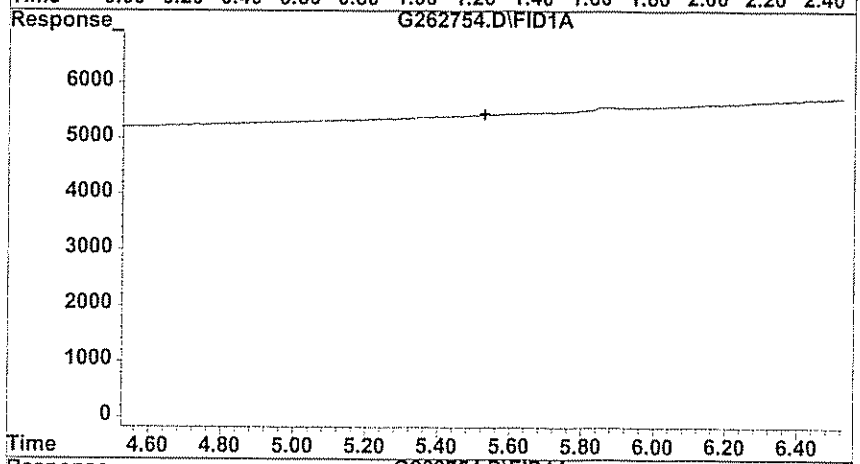
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





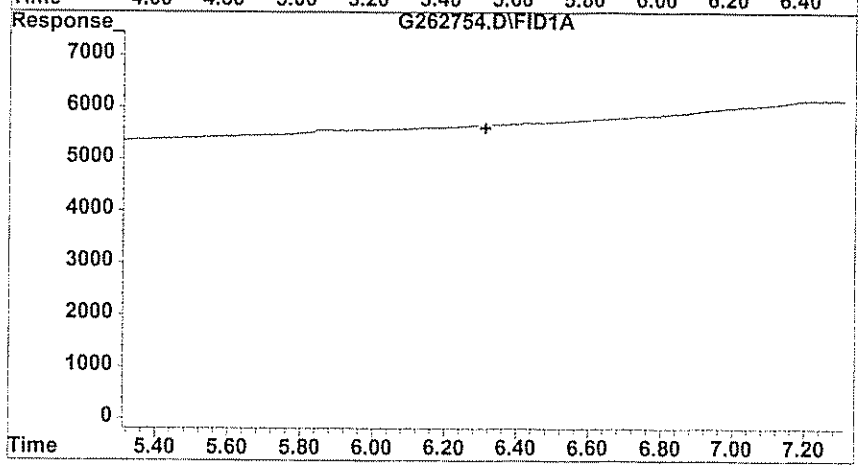
#1 Methane

R.T.:	0.627 min
Delta R.T.:	0.003 min
Response:	8710
Conc:	46.64 ppb m



#2 Ethane

R.T.:	0.000 min
Exp R.T. :	5.527 min
Response:	0
Conc:	N.D.



#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	6.310 min
Response:	0
Conc:	N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW38-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903124-011-077-2/2
Sample Volume :	1	Lab File ID :	G262755.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	48	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262755.D Vial: 28
Acq On : 31 Mar 2009 15:07 Operator: TG
Sample : 903124-011DL Inst : GC-G
Misc : OU1-52GW38-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 15:17 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	892	4.777	ppb	m
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

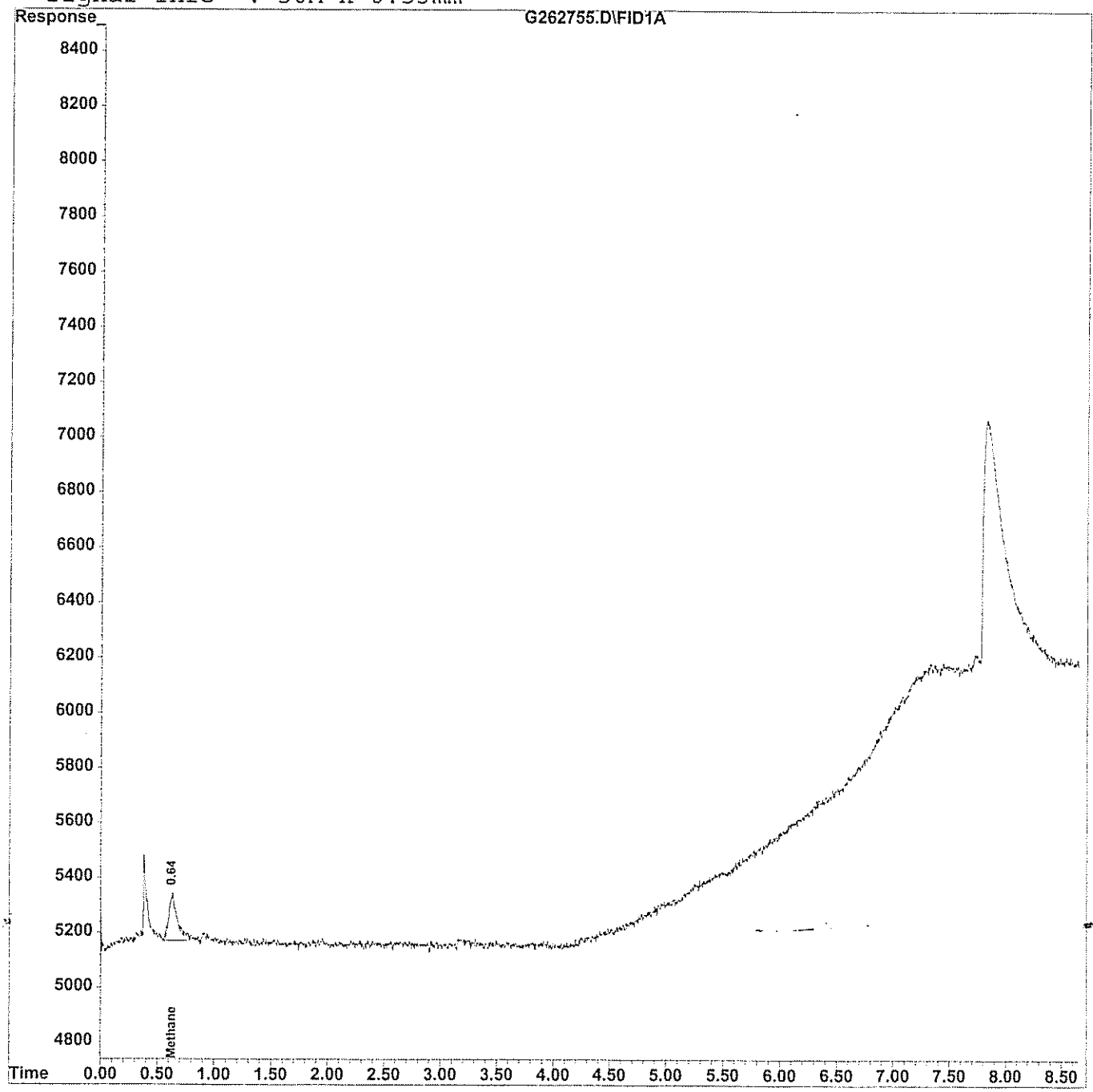
(f)=RT Delta > 1/2 Window (m)=manual int

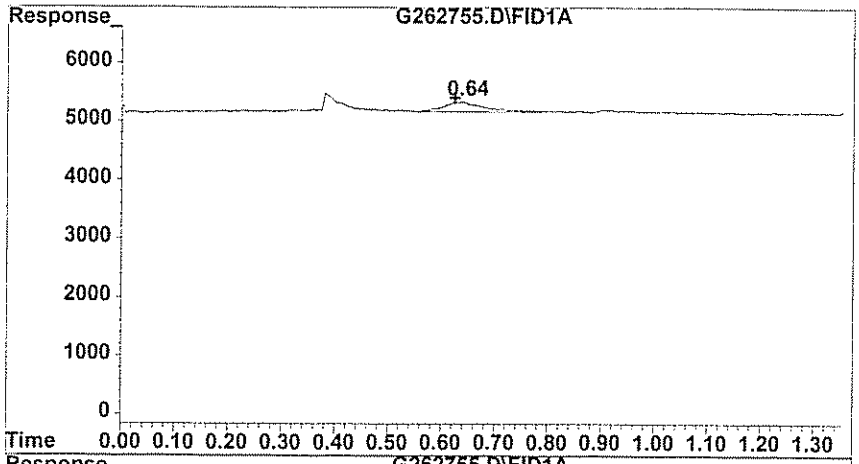
Quantitation Report

Data File : H:\GCDATA\G\033109\G262755.D Vial: 28
Acq On : 31 Mar 2009 15:07 Operator: TG
Sample : 903124-011DL Inst : GC-G
Misc : OU1-52GW38-0309,CH2M,WATER,1ML,10X Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 15:17 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

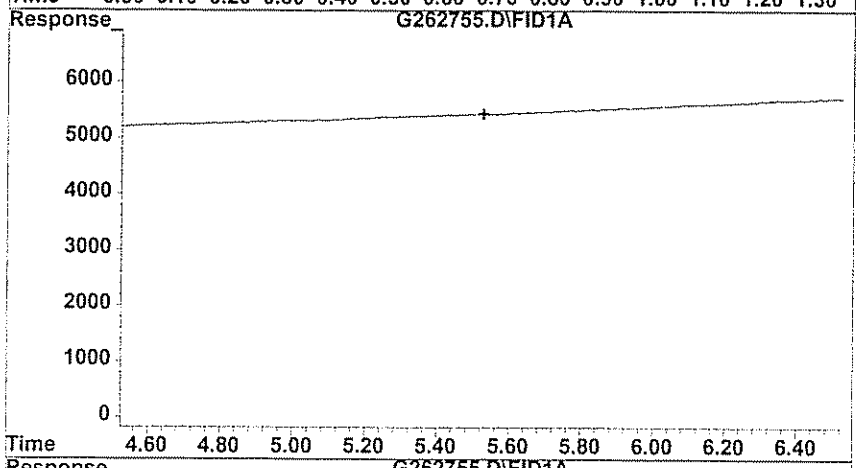
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





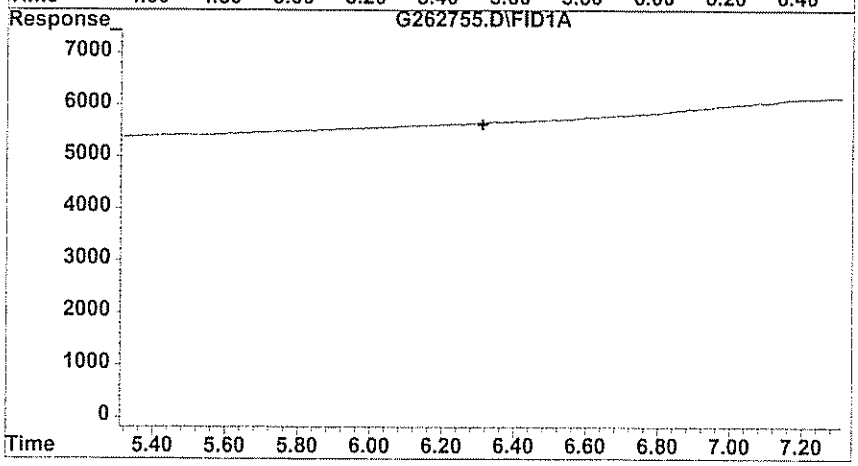
#1 Methane

R.T.: 0.637 min
Delta R.T.: 0.013 min
Response: 892
Conc: 4.78 ppb m



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

C. Standards Data

1. Initial Calibration Data

2. Continuing Calibration Data

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009

Calibration Files
1 =G262685.D 2 =G262686.D 10 =G262689.D
5 =G262688.D 4 =G262687.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	2.216	1.903	1.541	1.696	1.981	1.867 E2	13.96
2)	T	Ethane	3.958	3.168	2.474	2.769	2.815	3.037 E1	18.80
3)	T	Ethylene	4.914	3.707	2.995	3.715	3.755	3.817 E1	18.08

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262685.D Vial: 1
Acq On : 27 Mar 2009 9:44 Operator: NK
Sample : CAL01 Inst : GC-G
Misc : CAL01 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:17 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.64	738	4.352	ppb	m
2)	T	Ethane	5.54	247	8.919	ppb	m
3)	T	Ethylene	6.33	286	7.699	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int

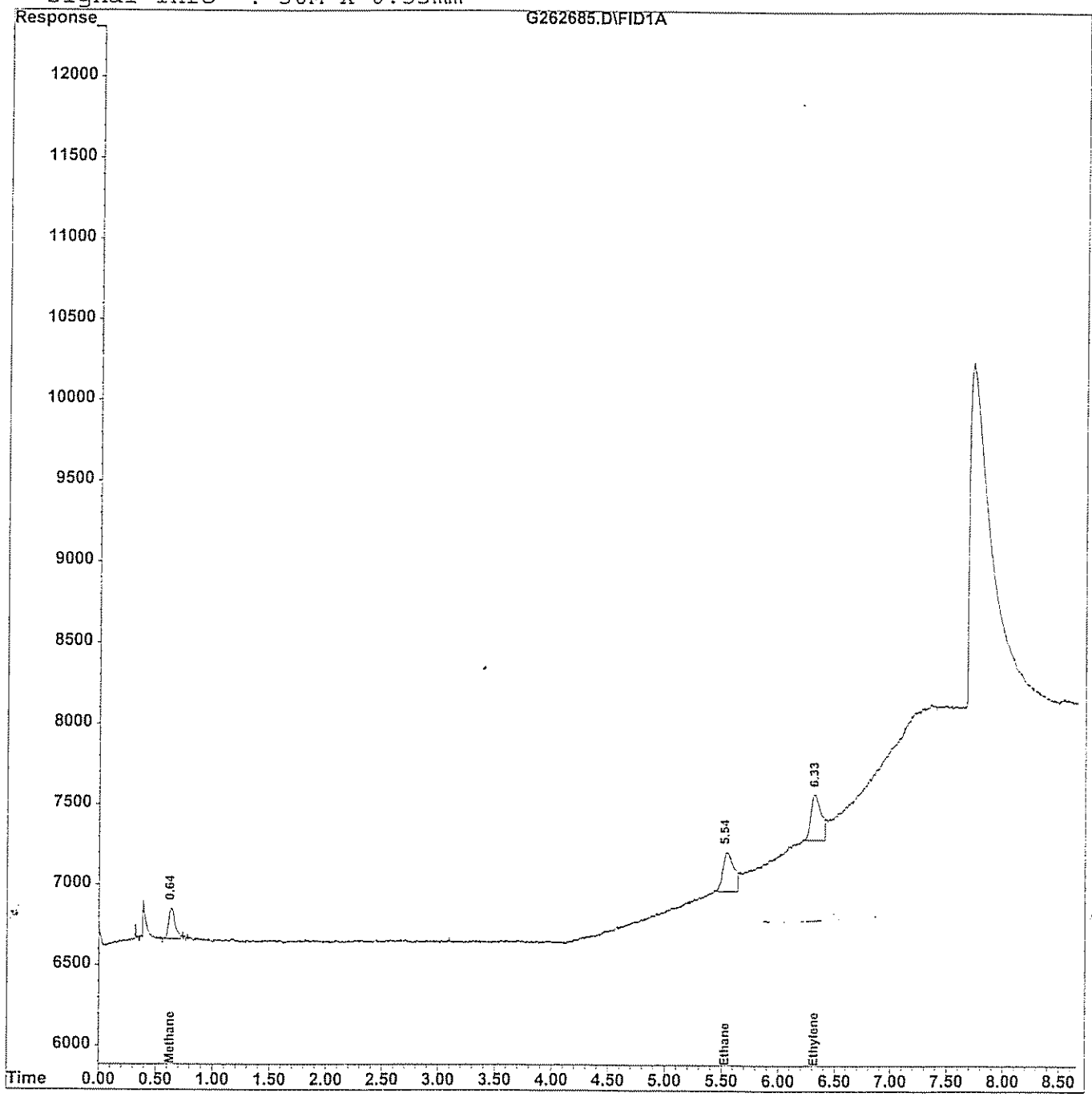
Quantitation Report

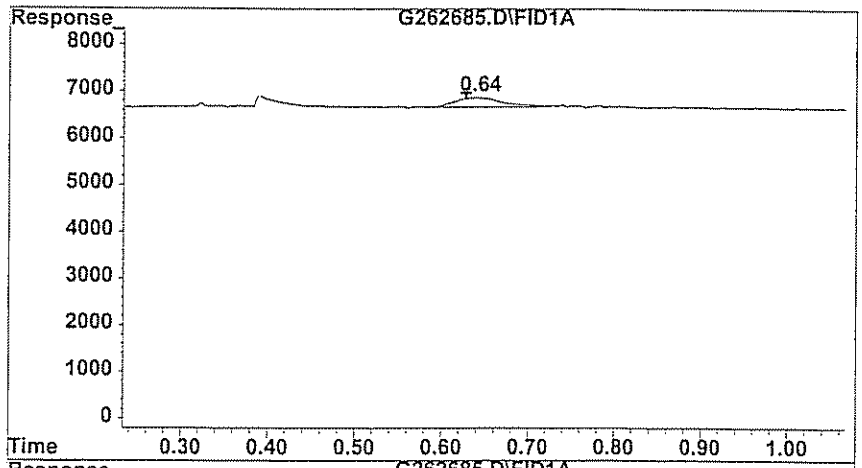
Data File : H:\GCDATA\G\032709\G262685.D
Acq On : 27 Mar 2009 9:44
Sample : CAL01
Misc : CAL01
IntFile : rteint.p
Quant Time: Mar 27 11:17 2009 Quant Results File: RSK0327.RES

Vial: 1
Operator: NK
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

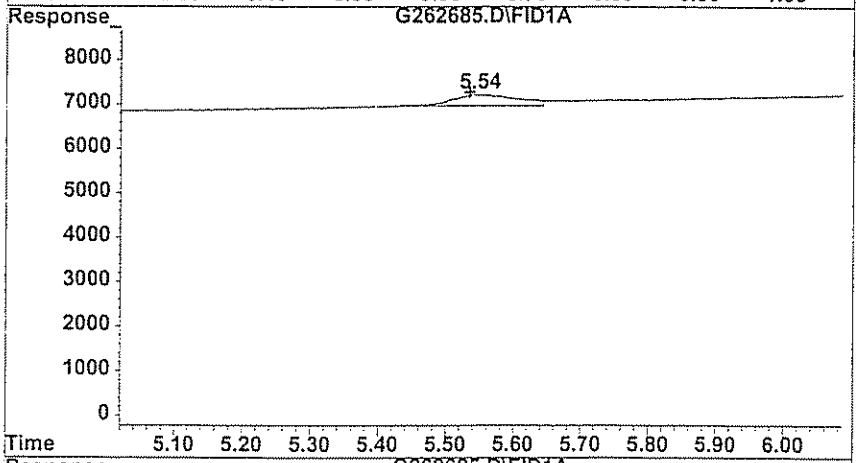
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





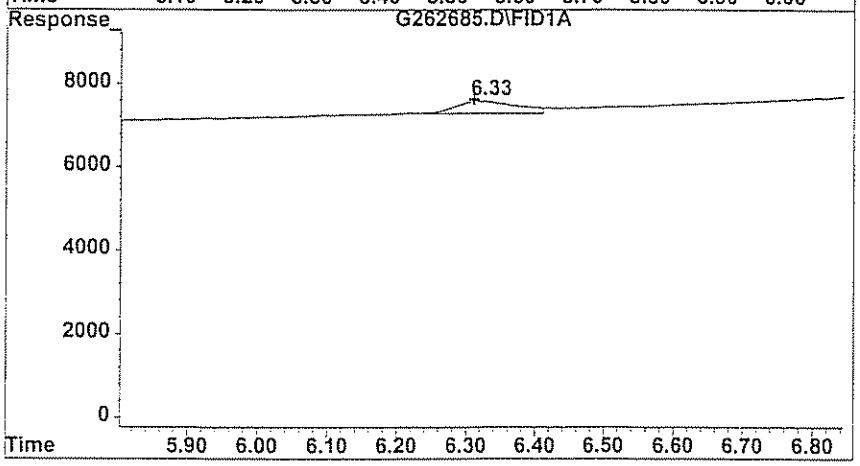
#1 Methane

R.T.:	0.637 min
Delta R.T.:	0.010 min
Response:	738
Conc:	4.35 ppb m



#2 Ethane

R.T.:	5.540 min
Delta R.T.:	0.007 min
Response:	247
Conc:	8.92 ppb m



#3 Ethylene

R.T.:	6.327 min
Delta R.T.:	0.017 min
Response:	286
Conc:	7.70 ppb

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262686.D Vial: 2
Acq On : 27 Mar 2009 10:04 Operator: NK
Sample : CAL02 Inst : GC-G
Misc : CAL02 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:19 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units
Target Compounds						
1)	T	Methane	0.60	1275	6.518	ppb
2)	T	Ethane	5.36	396	11.772	ppb
3)	T	Ethylene	6.21	430	9.967	ppb

(f)=RT Delta > 1/2 Window (m)=manual int

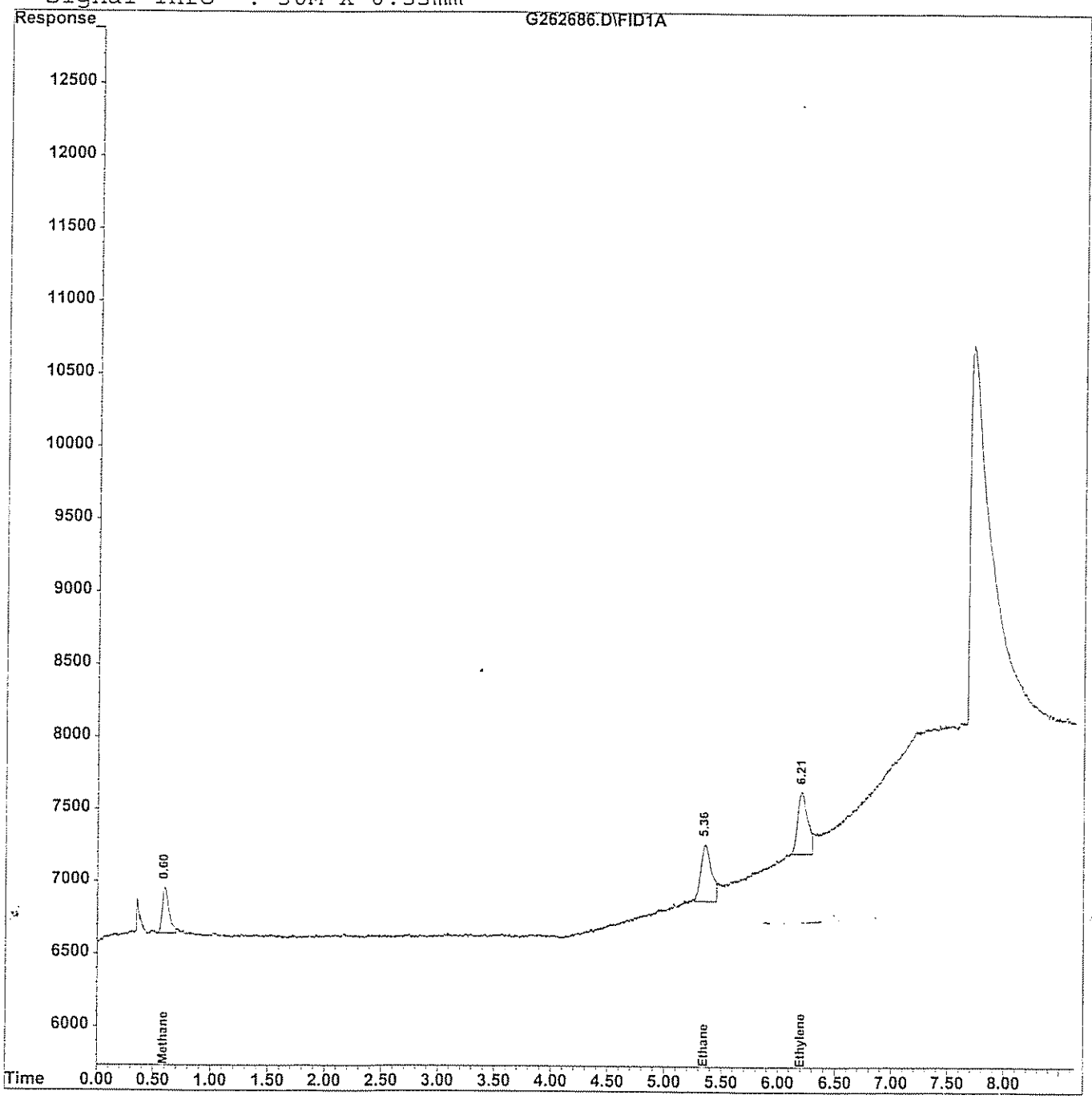
Quantitation Report

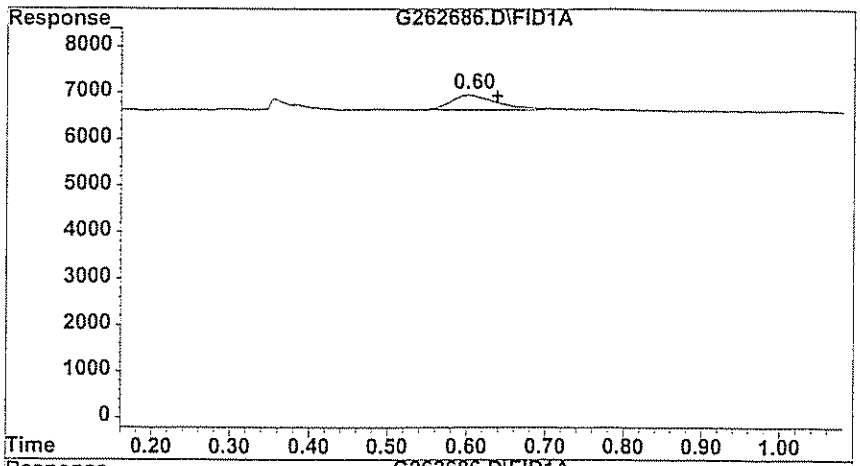
Data File : H:\GCDATA\G\032709\G262686.D
Acq On : 27 Mar 2009 10:04
Sample : CAL02
Misc : CAL02
IntFile : rteint.p
Quant Time: Mar 27 11:19 2009 Quant Results File: RSK0327.RES

Vial: 2
Operator: NK
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

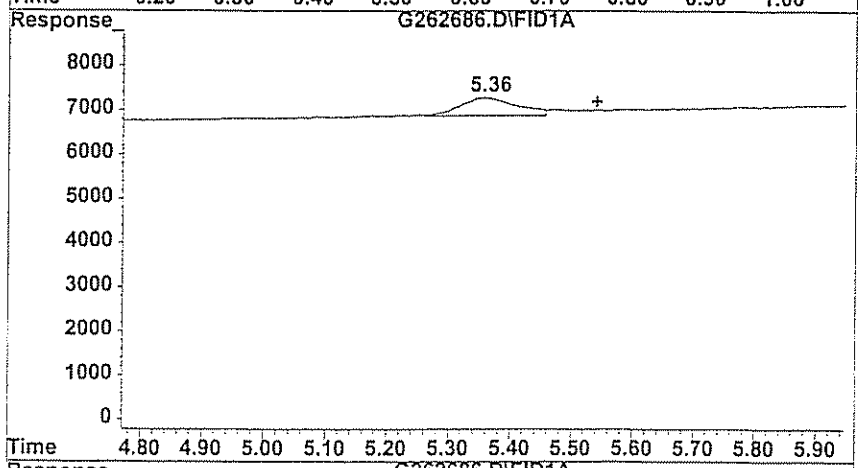
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





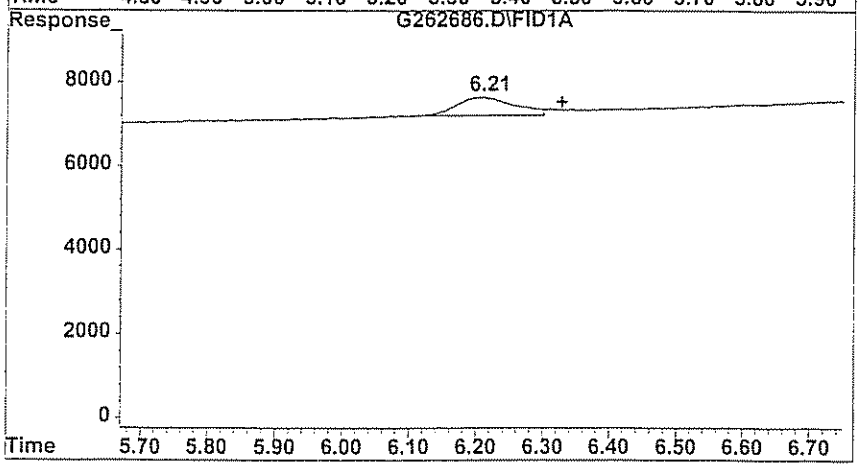
#1 Methane

R.T.:	0.600 min
Delta R.T.:	-0.037 min
Response:	1275
Conc:	6.52 ppb



#2 Ethane

R.T.:	5.357 min
Delta R.T.:	-0.183 min
Response:	396
Conc:	11.77 ppb



#3 Ethylene

R.T.:	6.210 min
Delta R.T.:	-0.117 min
Response:	430
Conc:	9.97 ppb

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262687.D Vial: 3
Acq On : 27 Mar 2009 10:24 Operator: NK
Sample : CAL04 Inst : GC-G
Misc : CAL04 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:20 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) T	Methane	0.61	2635	13.594 ppb
2) T	Ethane	5.53	701	21.252 ppb
3) T	Ethylene	6.31	875	21.280 ppb

(f)=RT Delta > 1/2 Window (m)=manual integration

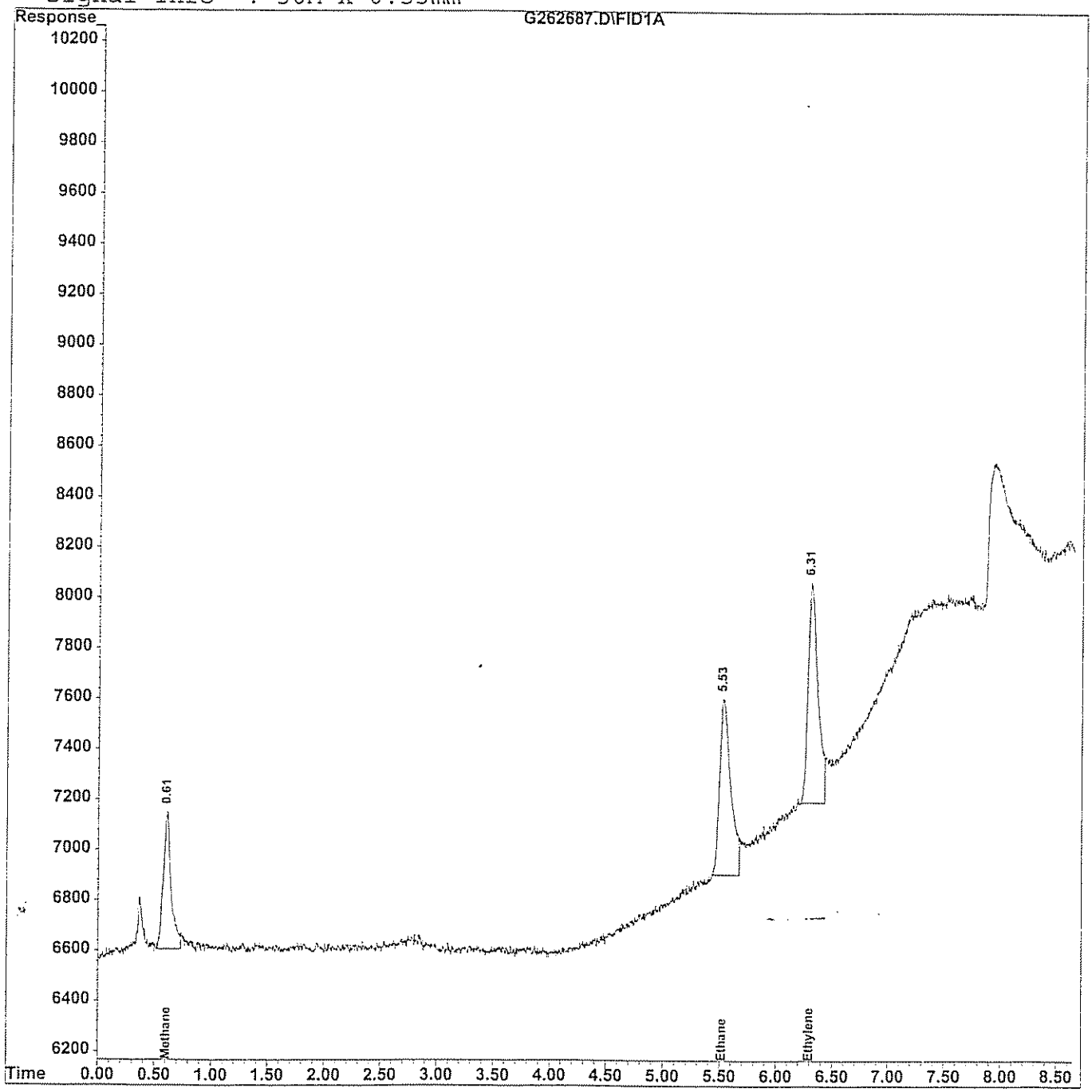
Quantitation Report

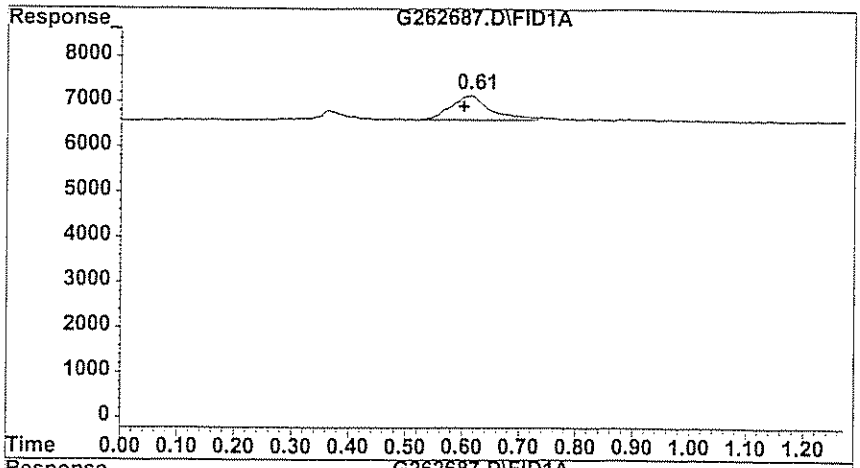
Data File : H:\GCDATA\G\032709\G262687.D
Acq On : 27 Mar 2009 10:24
Sample : CAL04
Misc : CAL04
IntFile : rteint.p
Quant Time: Mar 27 11:20 2009 Quant Results File: RSK0327.RES

Vial: 3
Operator: NK
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

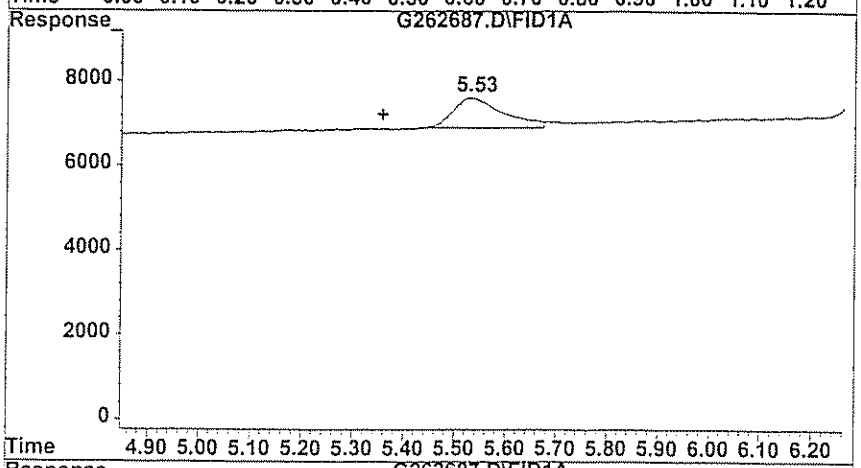
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





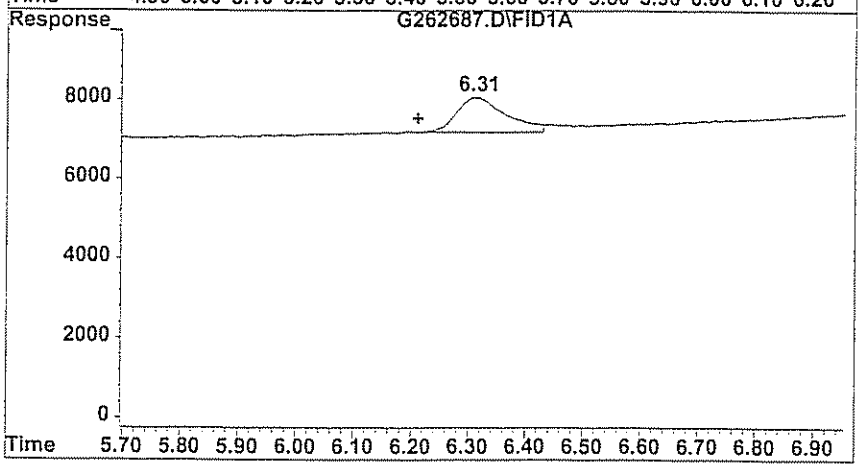
#1 Methane

R.T.: 0.613 min
Delta R.T.: 0.013 min
Response: 2635
Conc: 13.59 ppb



#2 Ethane

R.T.: 5.530 min
Delta R.T.: 0.173 min
Response: 701
Conc: 21.25 ppb



#3 Ethylene

R.T.: 6.307 min
Delta R.T.: 0.097 min
Response: 875
Conc: 21.28 ppb

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262688.D Vial: 4
Acq On : 27 Mar 2009 10:41 Operator: NK
Sample : CAL05 Inst : GC-G
Misc : CAL05 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:15 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.63	2860	16.865	ppb	m
2) T	Ethane	5.53	864	31.200	ppb	m
3) T	Ethylene	6.31	1079	29.046	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int

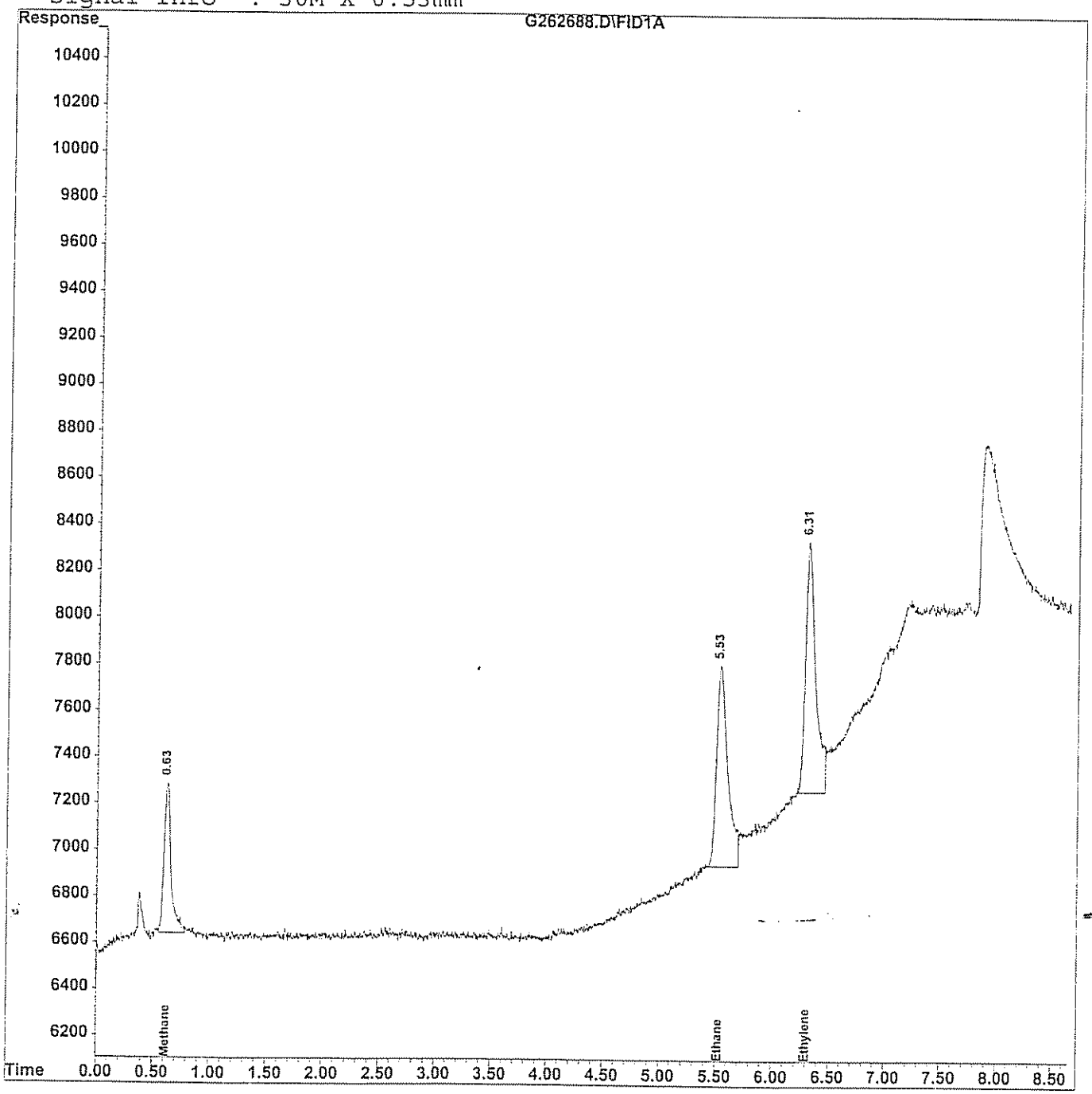
Quantitation Report

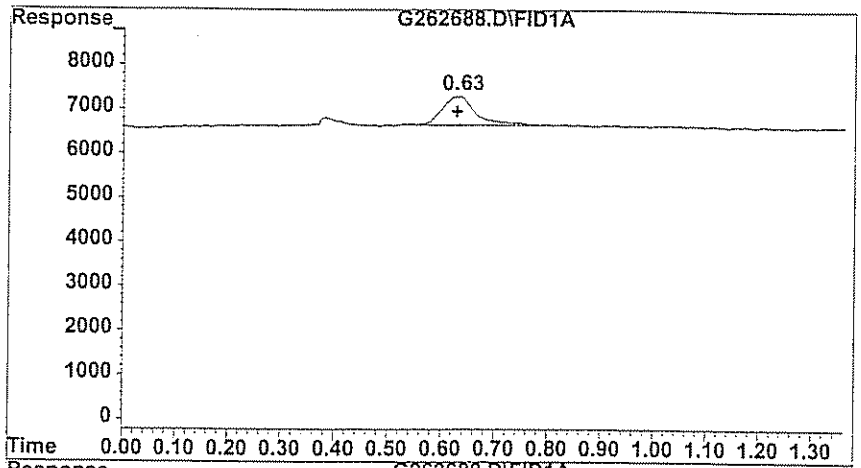
Data File : H:\GCDATA\G\032709\G262688.D
Acq On : 27 Mar 2009 10:41
Sample : CAL05
Misc : CAL05
IntFile : rteint.p
Quant Time: Mar 27 11:15 2009 Quant Results File: RSK0327.RES

Vial: 4
Operator: NK
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

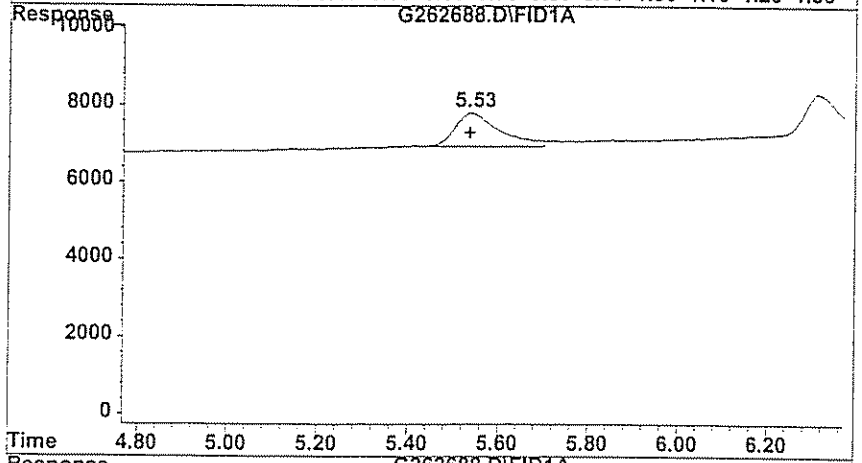
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





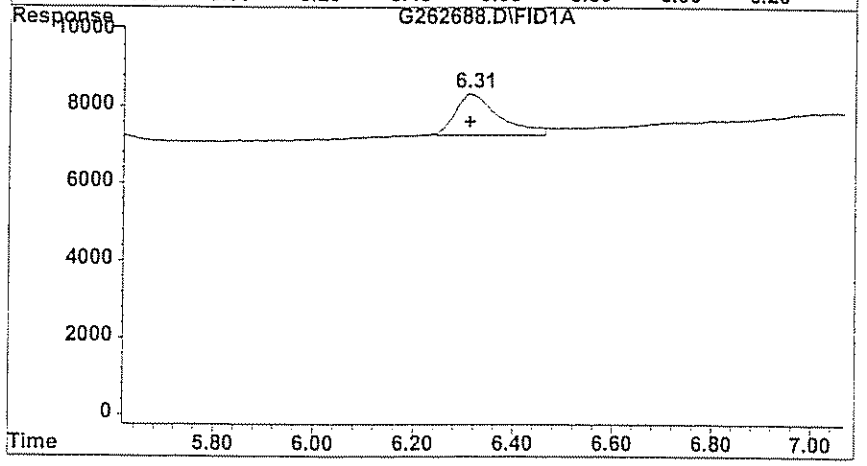
#1 Methane

R.T.:	0.627 min
Delta R.T.:	0.000 min
Response:	2860
Conc:	16.87 ppb m



#2 Ethane

R.T.:	5.533 min
Delta R.T.:	0.000 min
Response:	864
Conc:	31.20 ppb m



#3 Ethylene

R.T.:	6.310 min
Delta R.T.:	0.000 min
Response:	1079
Conc:	29.05 ppb m

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262689.D Vial: 5
Acq On : 27 Mar 2009 10:59 Operator: NK
Sample : CAL10 Inst : GC-G
Misc : CAL10 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:21 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) T	Methane	0.62	5131	26.326 ppb
2) T	Ethane	5.53	1544	48.589 ppb
3) T	Ethylene	6.31	1743	43.328 ppb

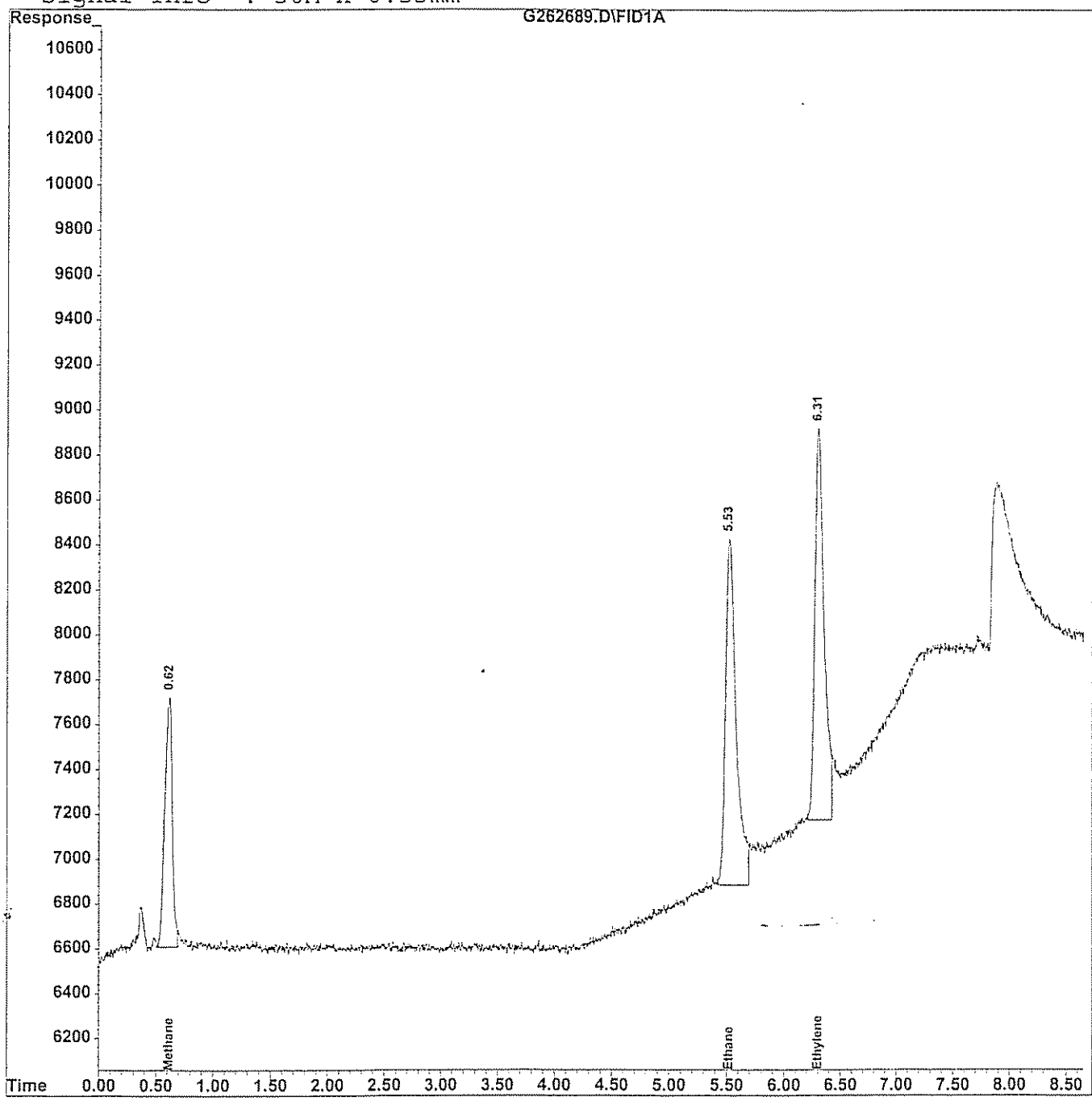
(f)=RT Delta > 1/2 Window (m)=manu

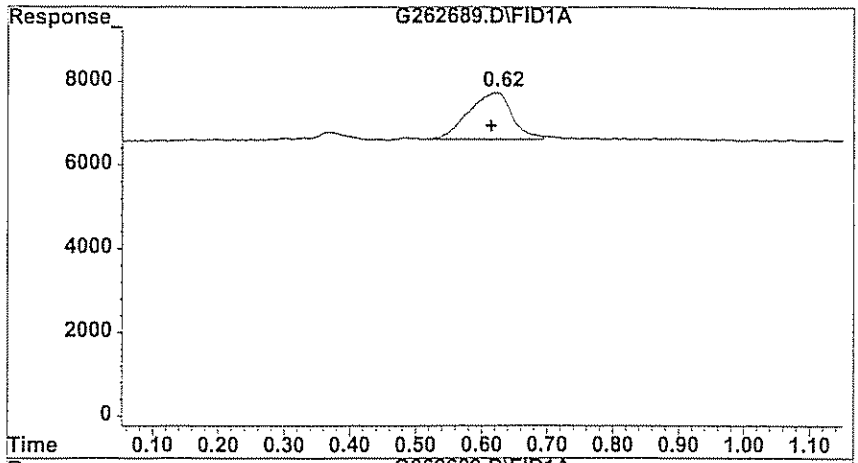
Quantitation Report

Data File : H:\GCDATA\G\032709\G262689.D Vial: 5
Acq On : 27 Mar 2009 10:59 Operator: NK
Sample : CAL10 Inst : GC-G
Misc : CAL10 Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 11:21 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

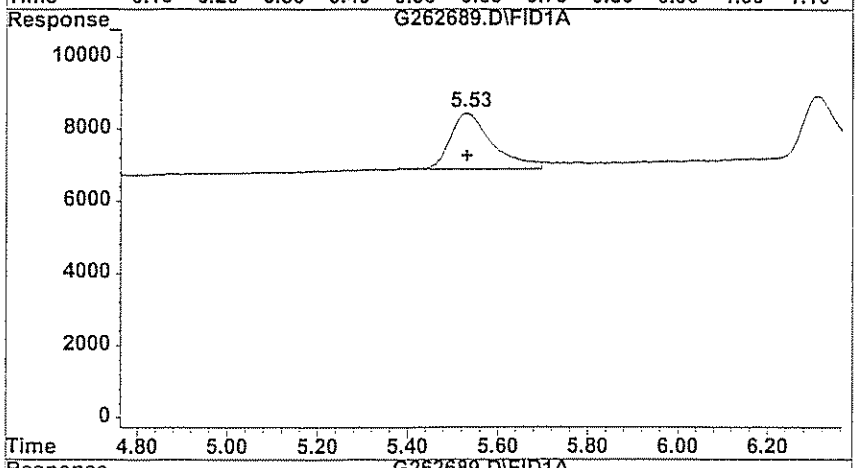
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





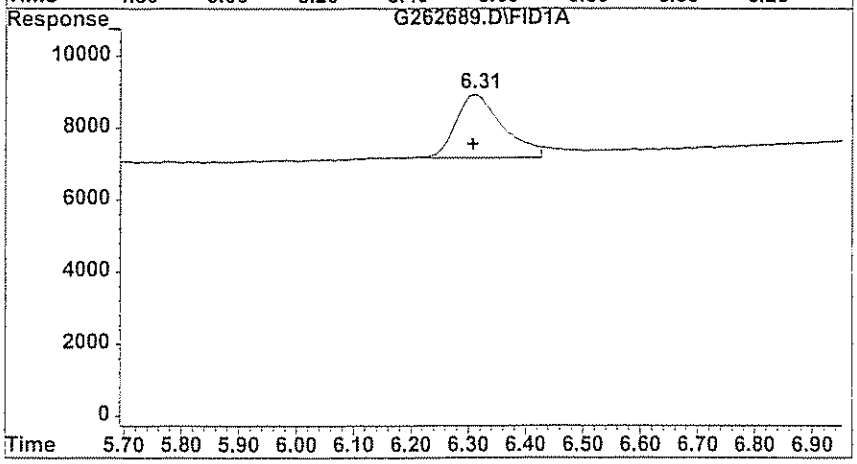
#1 Methane

R.T.: 0.623 min
Delta R.T.: 0.010 min
Response: 5131
Conc: 26.33 ppb



#2 Ethane

R.T.: 5.527 min
Delta R.T.: -0.003 min
Response: 1544
Conc: 48.59 ppb



#3 Ethylene

R.T.: 6.310 min
Delta R.T.: 0.003 min
Response: 1743
Conc: 43.33 ppb

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033109\G262728.D Vial: 1
Acq On : 31 Mar 2009 7:10 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	222.229	-19.0	131	0.02
2	T	Ethane	30.370	25.000	17.7	90	0.03
3	T	Ethylene	38.172	45.326	-18.7	122	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262728.D Vial: 1
Acq On : 31 Mar 2009 7:10 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 7:23 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	3689	19.755	ppb	m
2) T	Ethane	5.56	780	25.683	ppb	m
3) T	Ethylene	6.32	1319	34.554	ppb	m

(f)=RT Delta > 1/2 Window (m)=manu

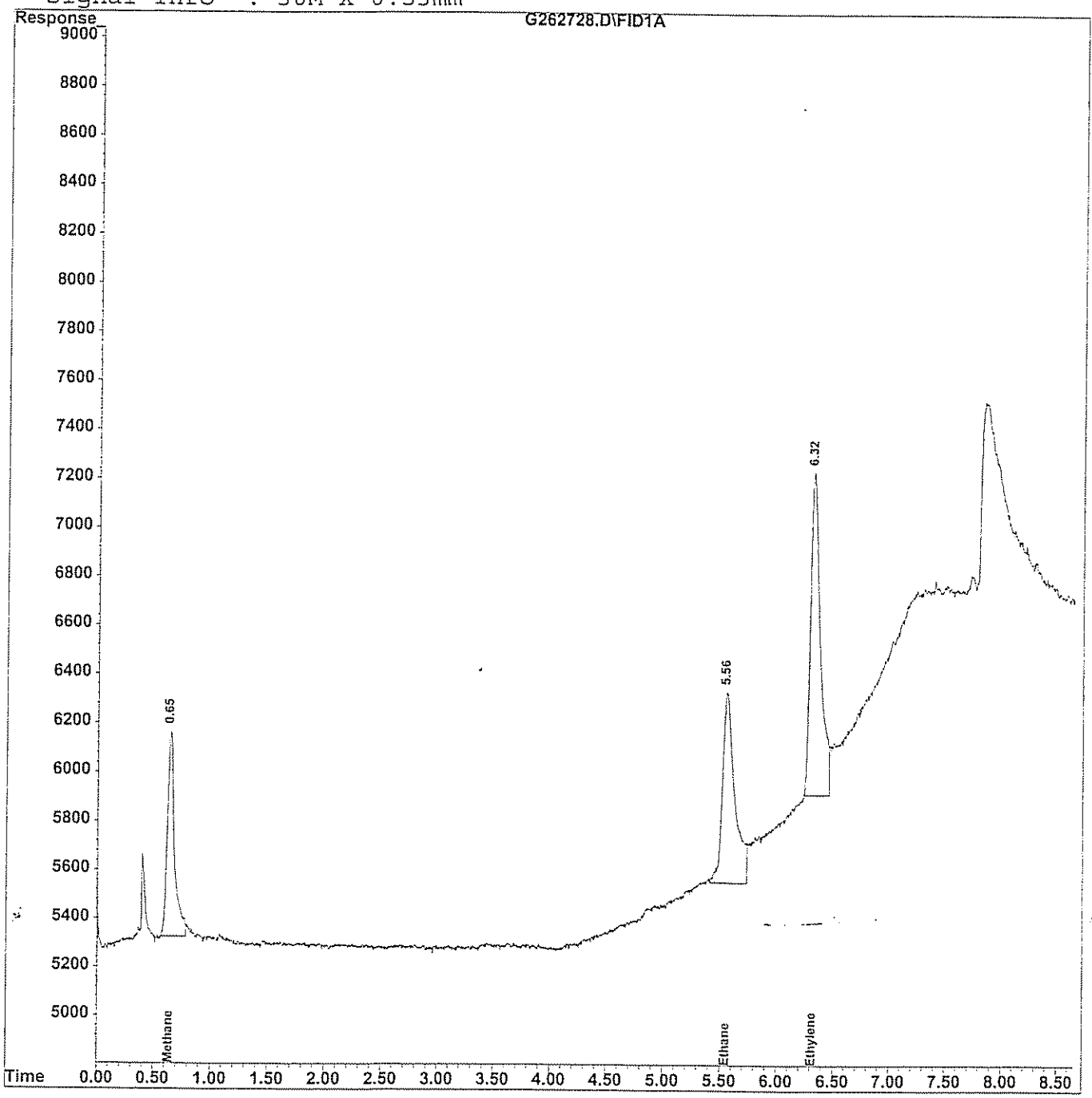
Quantitation Report

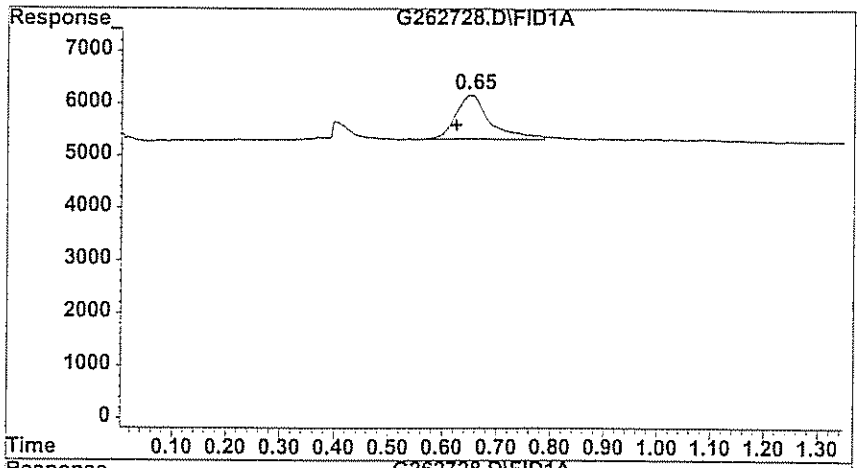
Data File : H:\GCDATA\G\033109\G262728.D
Acq On : 31 Mar 2009 7:10
Sample : CCV
Misc : CCV
IntFile : rteint.p
Quant Time: Mar 31 7:23 2009 Quant Results File: RSK0327.RES

Vial: 1
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

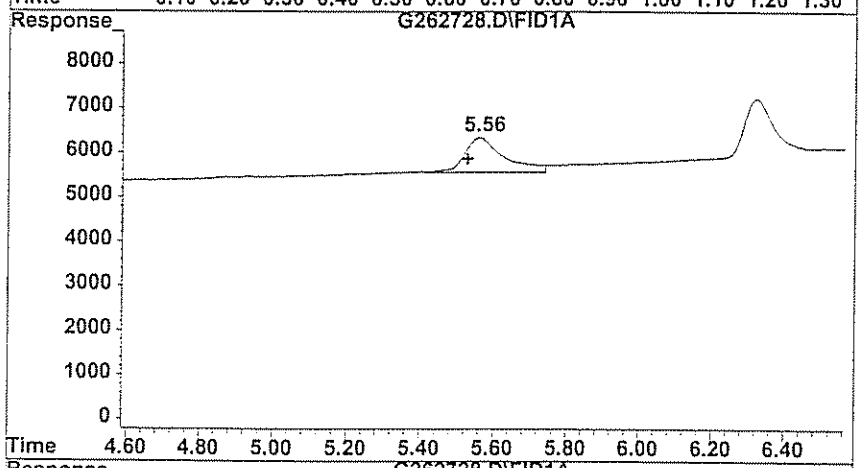
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





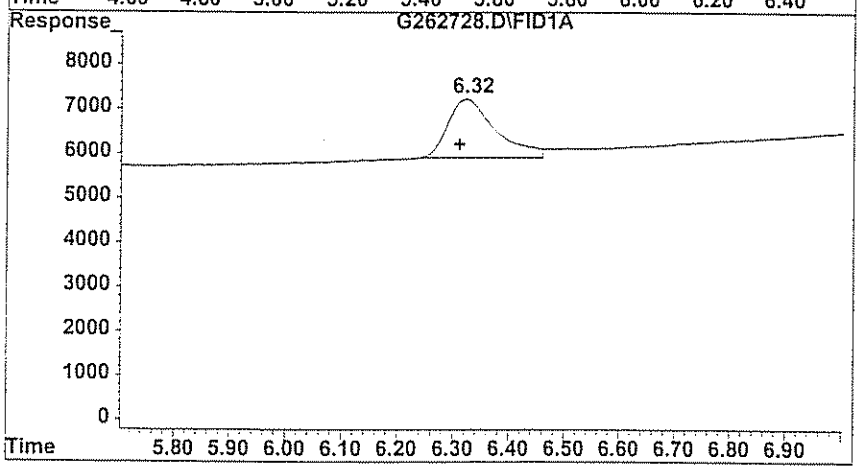
#1 Methane

R.T.: 0.647 min
Delta R.T.: 0.023 min
Response: 3689
Conc: 19.75 ppb m



#2 Ethane

R.T.: 5.557 min
Delta R.T.: 0.030 min
Response: 780
Conc: 25.68 ppb m



#3 Ethylene

R.T.: 6.323 min
Delta R.T.: 0.013 min
Response: 1319
Conc: 34.55 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033109\G262740.D Vial: 13
Acq On : 31 Mar 2009 10:51 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	215.422	-15.4	127	0.03
2	T	Ethane	30.370	24.519	19.3	89	0.04
3	T	Ethylene	38.172	44.124	-15.6	119	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262740.D Vial: 13
Acq On : 31 Mar 2009 10:51 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 11:04 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.66	3576	19.150	ppb	
2) T	Ethane	5.57	765	25.189	ppb	m
3) T	Ethylene	6.33	1284	33.637	ppb	m

(f)=RT Delta > 1/2 Window (m)=manual int

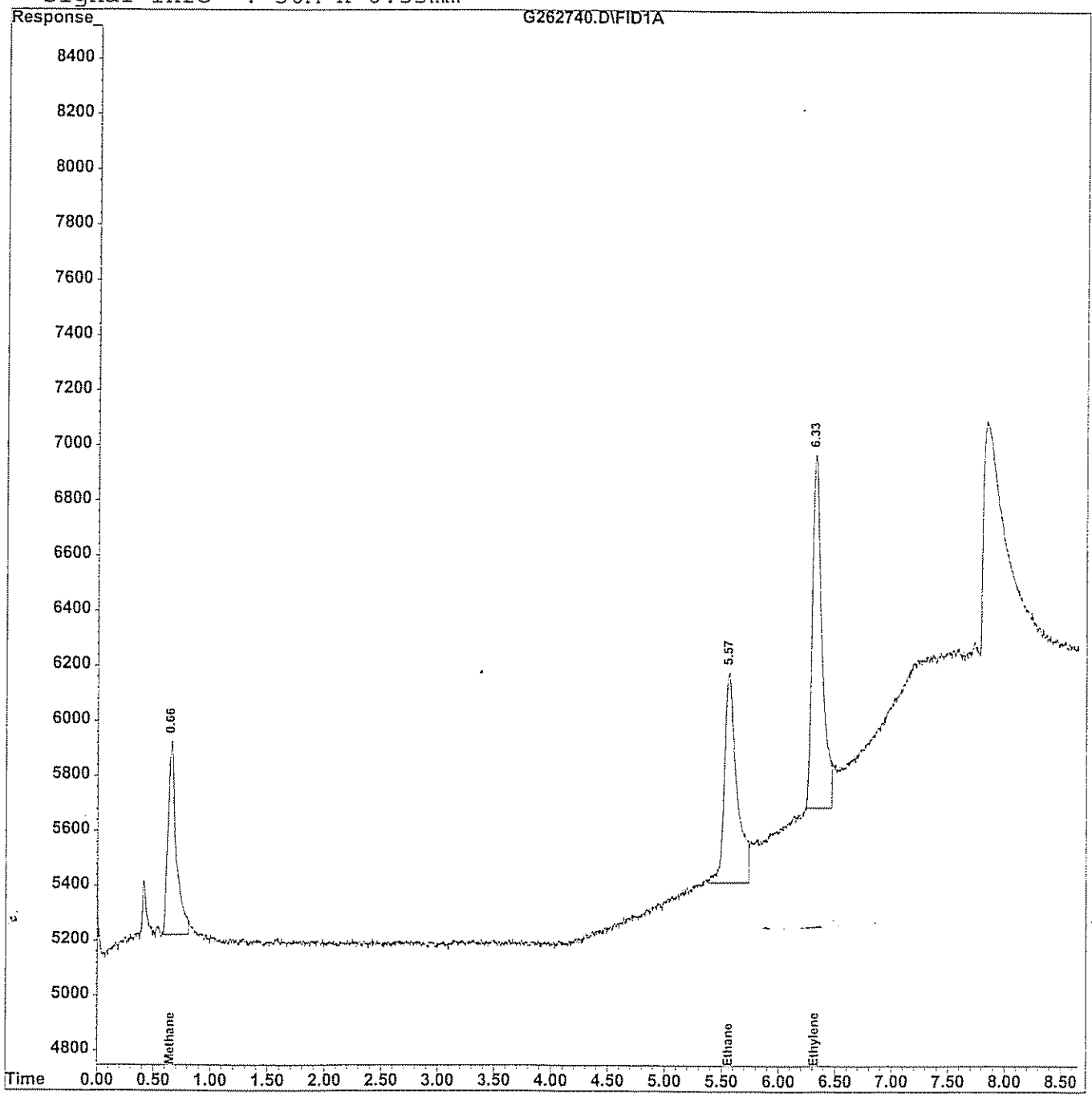
Quantitation Report

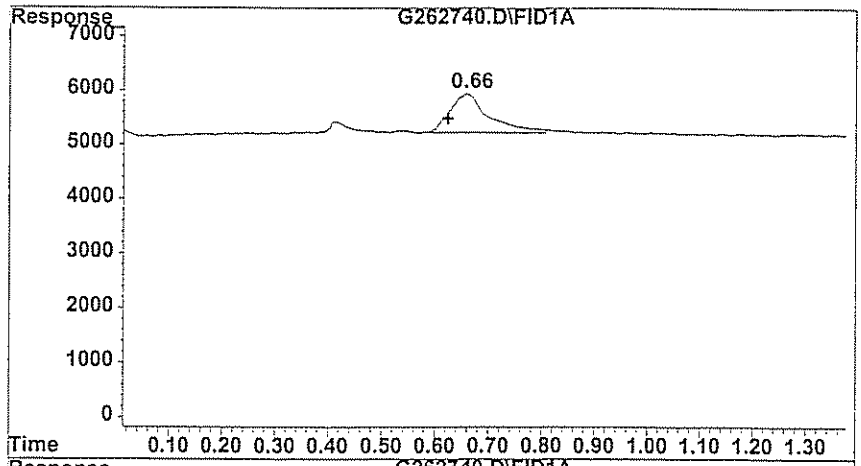
Data File : H:\GCDATA\G\033109\G262740.D
Acq On : 31 Mar 2009 10:51
Sample : CCV
Misc : CCV
IntFile : rteint.p
Quant Time: Mar 31 11:04 2009 Quant Results File: RSK0327.RES

Vial: 13
Operator: TG
Inst : GC-G
Multiplr: 1.00

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

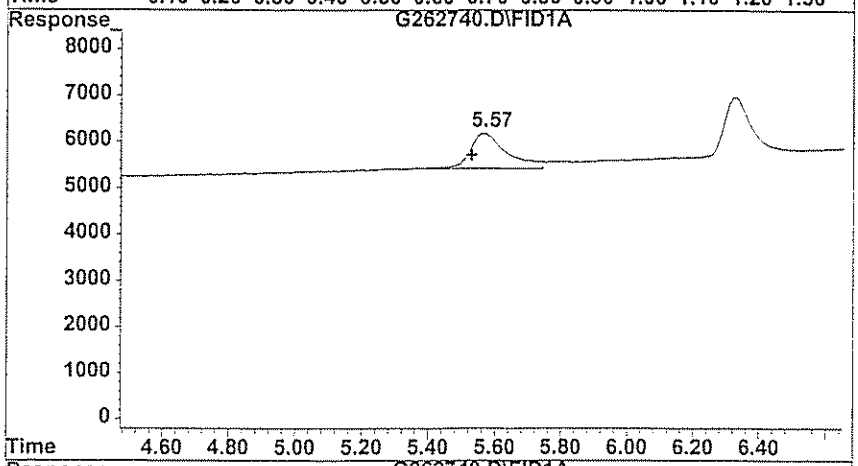
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





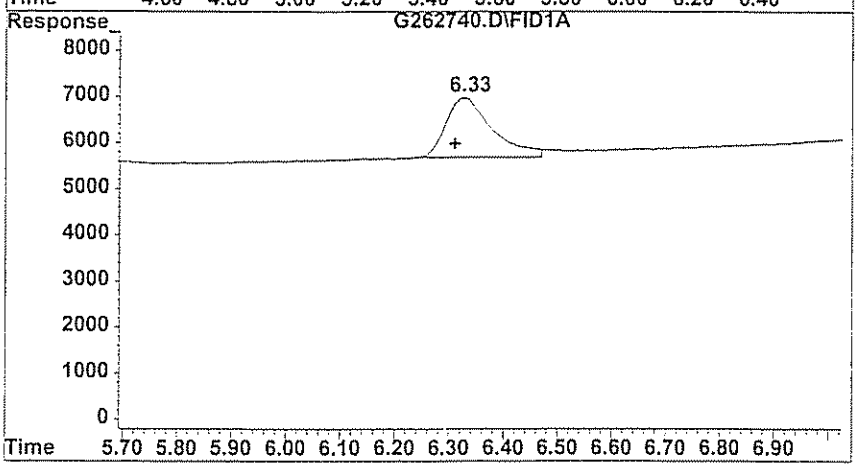
#1 Methane

R.T.: 0.657 min
Delta R.T.: 0.033 min
Response: 3576
Conc: 19.15 ppb



#2 Ethane

R.T.: 5.570 min
Delta R.T.: 0.043 min
Response: 765
Conc: 25.19 ppb m



#3 Ethylene

R.T.: 6.327 min
Delta R.T.: 0.017 min
Response: 1284
Conc: 33.64 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033109\G262752.D
Acq On : 31 Mar 2009 14:23
Sample : CCV
Misc : CCV
IntFile : rteint.p

Vial: 25
Operator: TG
Inst : GC-G
Multiplr: 1.00

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	222.229	-19.0	131	0.03
2	T	Ethane	30.370	24.840	18.2	90	0.03
3	T	Ethylene	38.172	44.983	-17.8	121	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262752.D Vial: 25
Acq On : 31 Mar 2009 14:23 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 14:35 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.65	3689	19.755	ppb	m
2) T	Ethane	5.56	775	25.518	ppb	m
3) T	Ethylene	6.33	1309	34.292	ppb	m

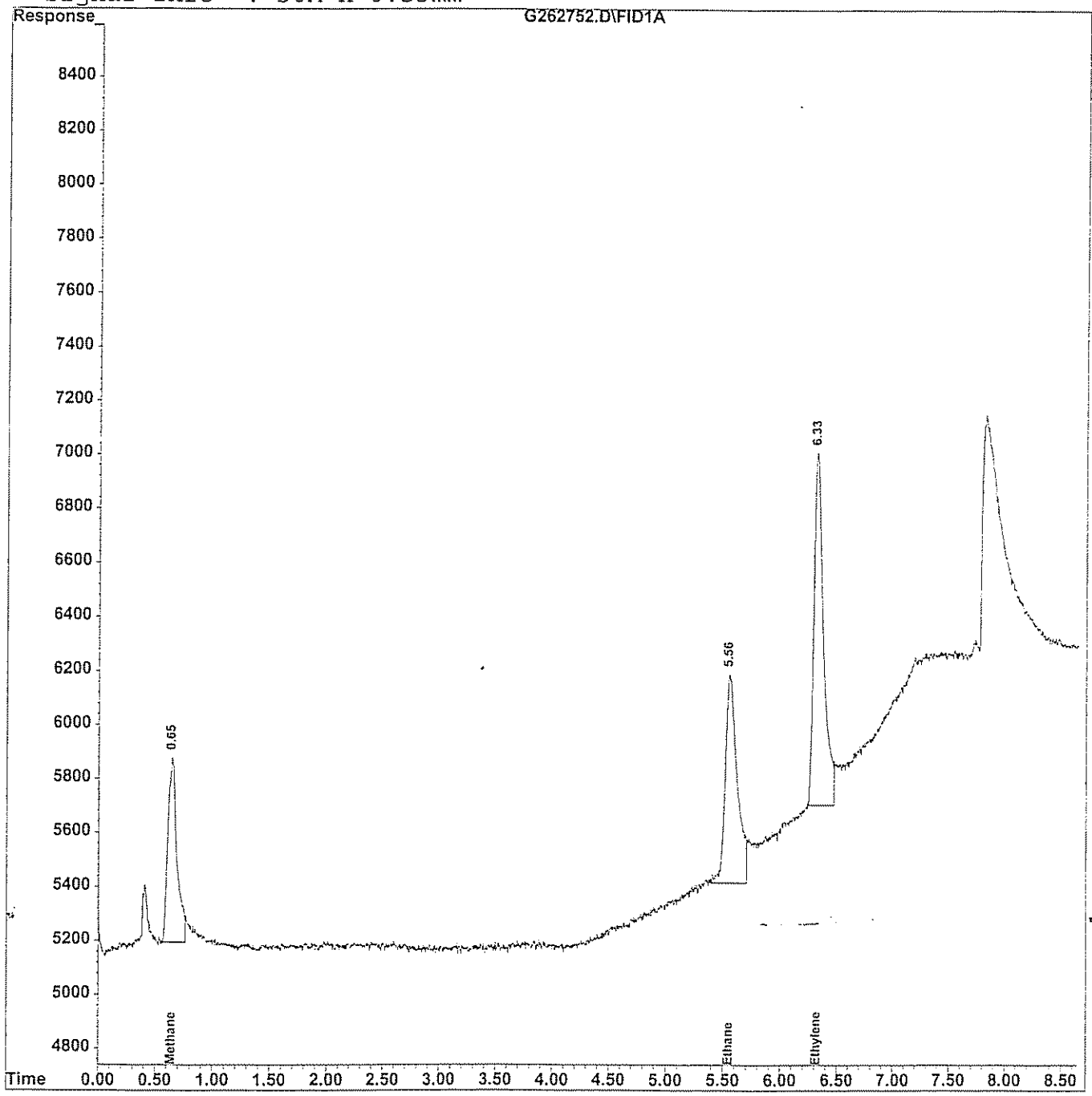
(f)=RT Delta > 1/2 Window (m)=manu

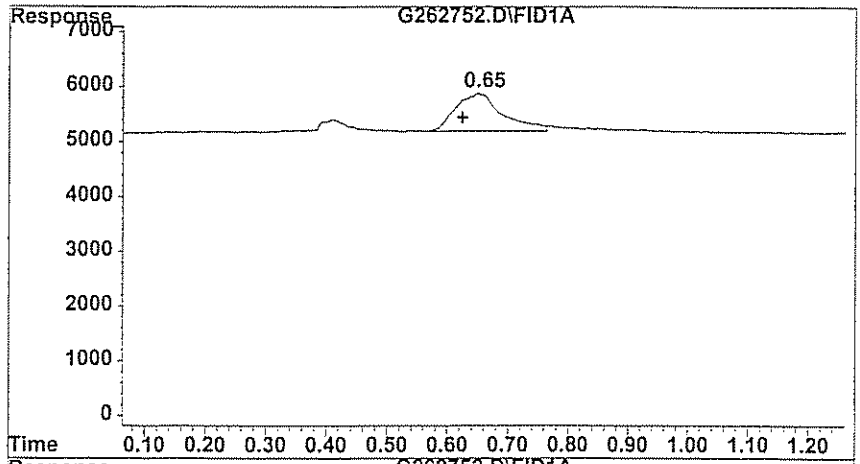
Quantitation Report

Data File : H:\GCDATA\G\033109\G262752.D Vial: 25
Acq On : 31 Mar 2009 14:23 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 14:35 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

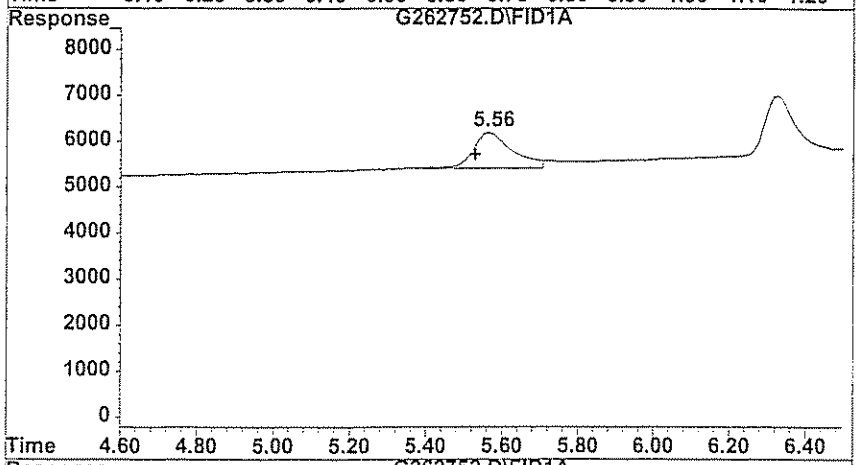
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





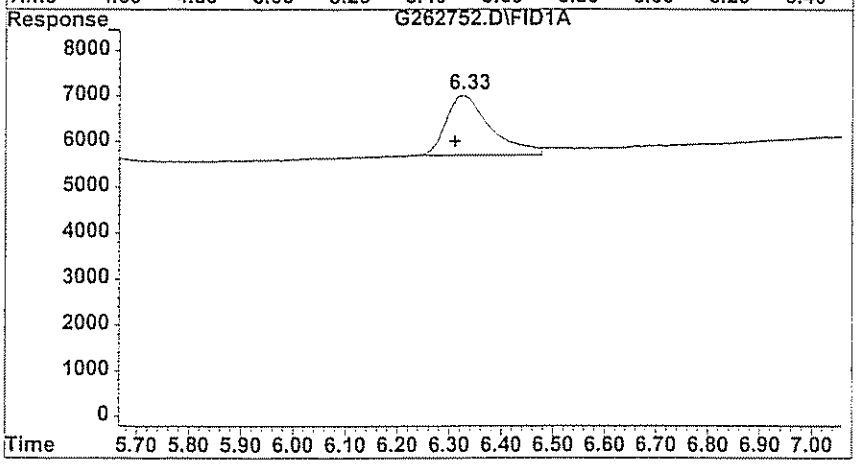
#1 Methane

R.T.: 0.650 min
Delta R.T.: 0.027 min
Response: 3689
Conc: 19.75 ppb m



#2 Ethane

R.T.: 5.560 min
Delta R.T.: 0.033 min
Response: 775
Conc: 25.52 ppb m



#3 Ethylene

R.T.: 6.327 min
Delta R.T.: 0.017 min
Response: 1309
Conc: 34.29 ppb m

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033109\G262756.D Vial: 29
Acq On : 31 Mar 2009 15:22 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	220.542	-18.1	130	0.02
2	T	Ethane	30.370	24.840	18.2	90	0.05
3	T	Ethylene	38.172	44.330	-16.1	119	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262756.D Vial: 29
Acq On : 31 Mar 2009 15:22 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 15:32 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.64	3661	19.605	ppb	m
2) T	Ethane	5.57	775	25.518	ppb	m
3) T	Ethylene	6.32	1290	33.794	ppb	m

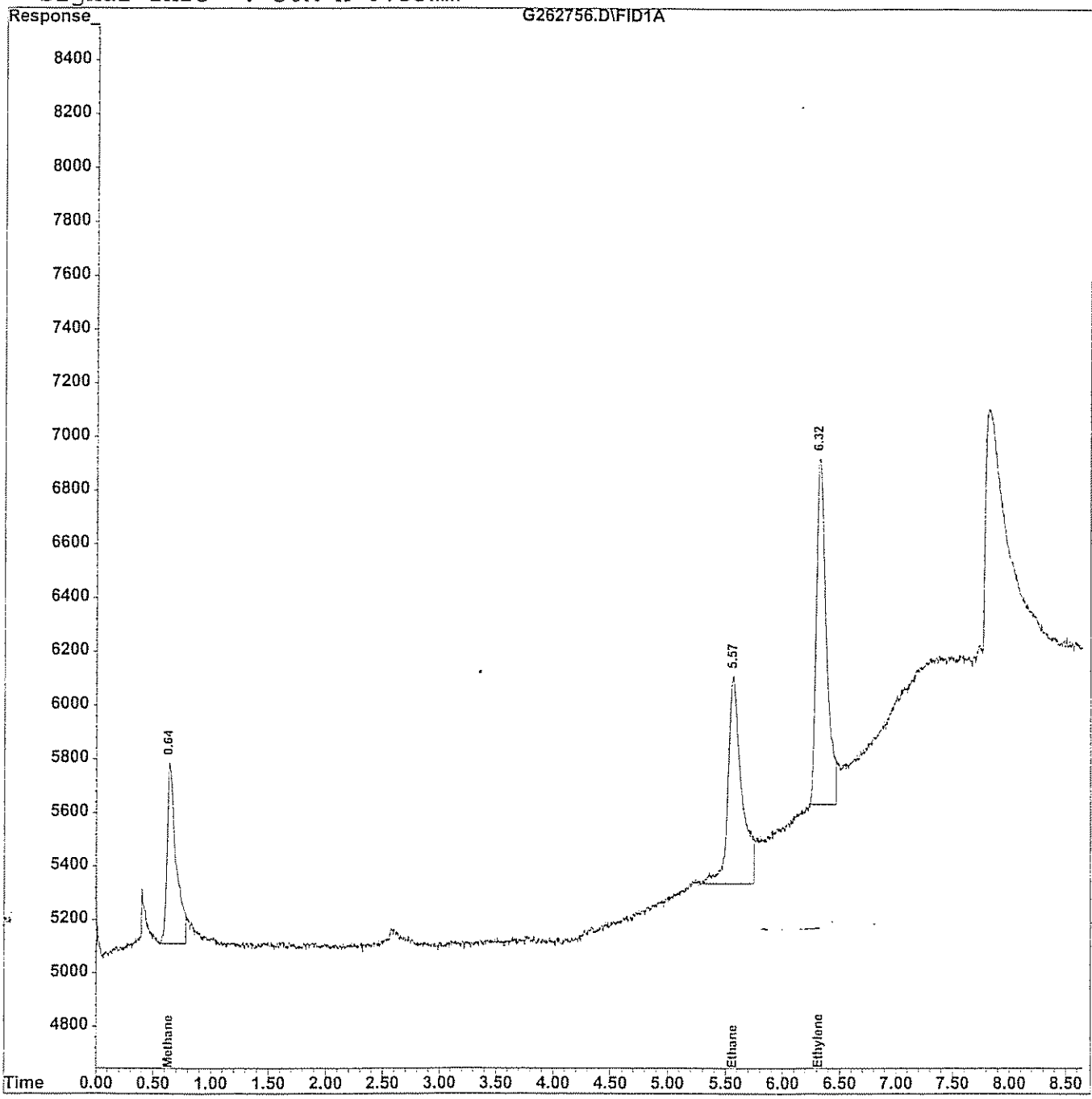
(f)=RT Delta > 1/2 Window (m)=manual
G262756.D RSK0327.M Tue Mar 31 15:32:50 2009 W28_IOANNIDE Page 1

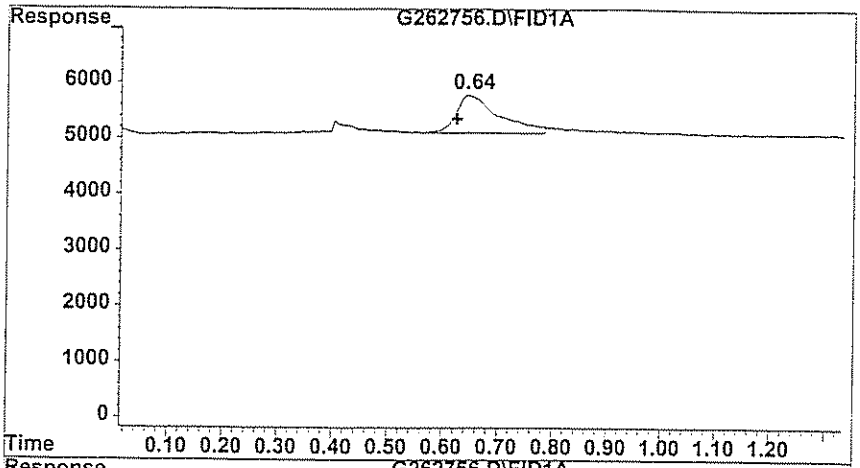
Quantitation Report

Data File : H:\GCDATA\G\033109\G262756.D Vial: 29
Acq On : 31 Mar 2009 15:22 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 15:32 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

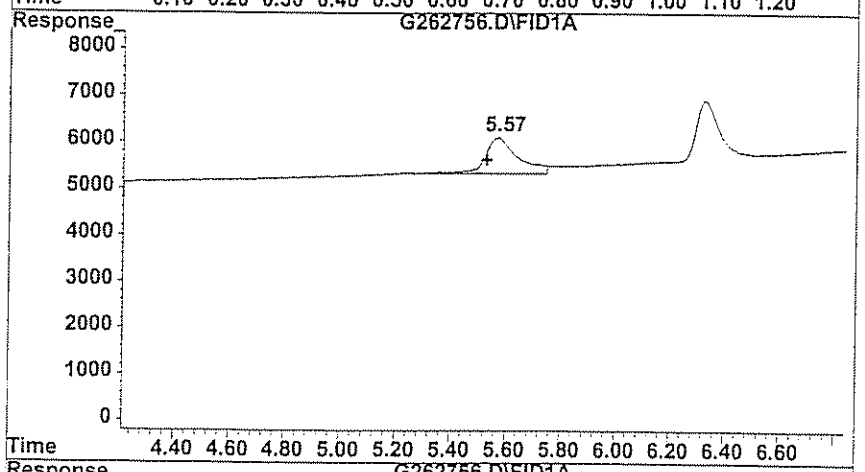
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





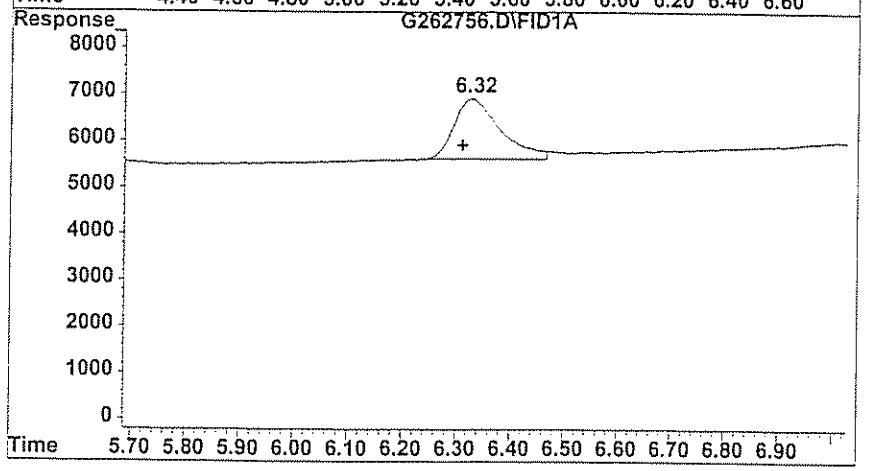
#1 Methane

R.T.: 0.643 min
Delta R.T.: 0.020 min
Response: 3661
Conc: 19.60 ppb m



#2 Ethane

R.T.: 5.573 min
Delta R.T.: 0.047 min
Response: 775
Conc: 25.52 ppb m



#3 Ethylene

R.T.: 6.323 min
Delta R.T.: 0.013 min
Response: 1290
Conc: 33.79 ppb m

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: MV DATE: 3/31/09

INSTRUMENT ID: **HP 5890 # G**
ANALYSIS/FRACTION: VOA
ANALYSTS: TL
ICAL DATE: 3/27/09

METHOD FILE: 0327-M
SEQUENCE FILE: 03/27/09

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262683	CCV	3/27/09	1X	water	10ml	N/A	BSLC125	not used
	G 84	CCV							OK
	G 85	cal 01							OK
	G 86	cal 02							OK
	G 87	cal 04							OK
	G 88	cal 05							OK
	G 89	cal 10							OK
	G 90	BLK							OK
	G 91	903098-012DL		10X		1ml			OK
	G 92	903098-012MS							OK
	G 93	903098-012MSD							OK
	G 94	903125-001		1X		10ml			need dilution
	G 95	-002							need dilution
	G 96	-003							need dilution
	G 97	CCV		1X		10ml			OK
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								
	G								

TL 3/30/09

REMARKS

Standards	Lot #	Conc.	Prep. Date	Volume
Methanol	8282011	100ppm	3/18/2009	2.5ml
Ethanol	907605L		3/17/2009	
Ethylene	801401L		7/16/2009	

D. Raw QC Data

1. BFB

2. Blank Data

3. Matrix Spike Data

4. Matrix Spike Duplicate Data

5. Laboratory Control Standard Data (where applicable)

6. Injection Logsheet

7. Control Charts (where applicable)

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108914

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108914
Sample Volume :	10	Lab File ID :	G262729.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262729.D Vial: 2
Acq On : 31 Mar 2009 7:25 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 7:37 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.00	0	N.D.	ppb	d
2) T	Ethane	0.00	0	N.D.	ppb	
3) T	Ethylene	0.00	0	N.D.	ppb	

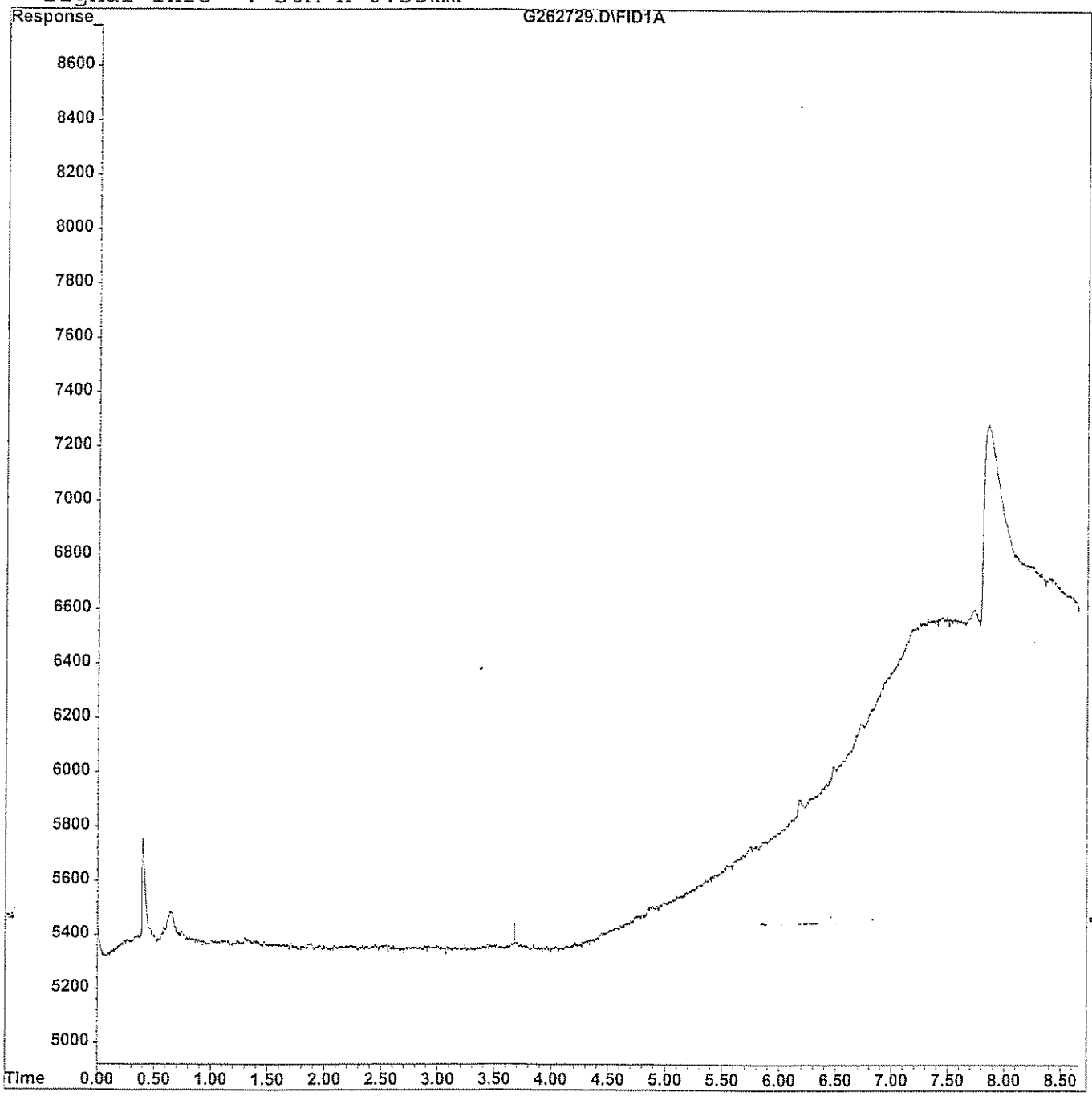
(f)=RT Delta > 1/2 Window (m)=manu

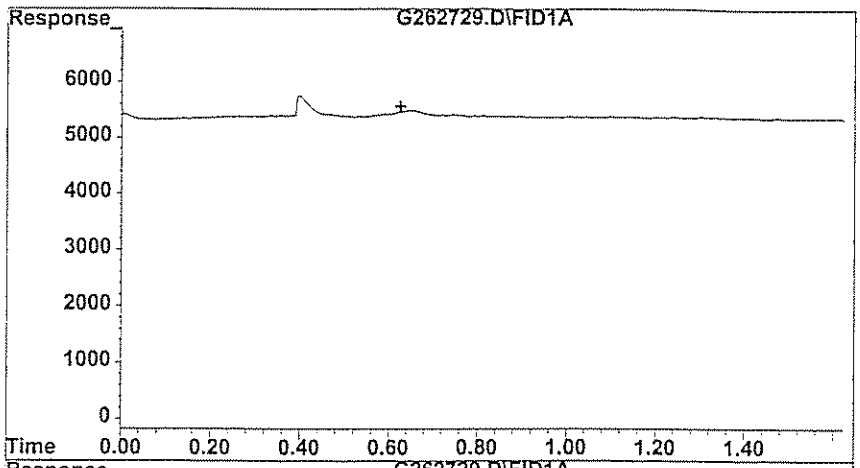
Quantitation Report

Data File : H:\GCDATA\G\033109\G262729.D
Acq On : 31 Mar 2009 7:25
Sample : BLK
Misc : BLK
IntFile : rteint.p
Vial: 2
Operator: TG
Inst : GC-G
Multiplr: 1.00
Quant Time: Mar 31 7:37 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

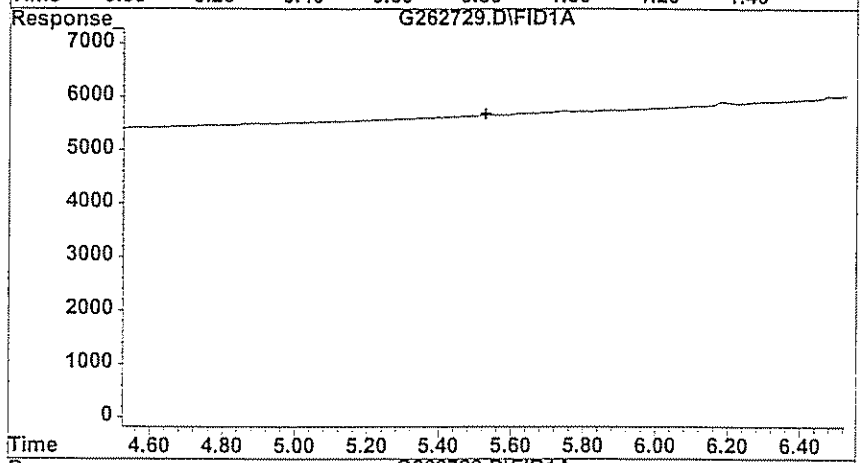
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





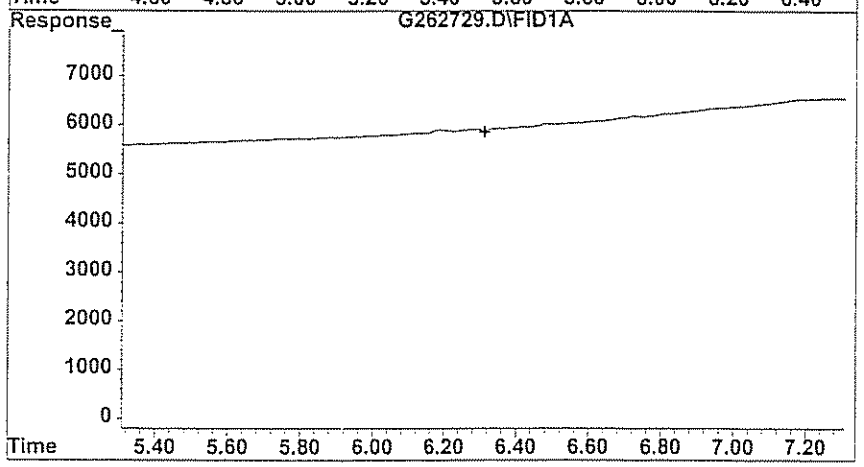
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.623 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108915

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903124
Case No. :		SDG NO :	903124
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108915
Sample Volume :	10	Lab File ID :	G262753.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\033109\G262753.D Vial: 26
Acq On : 31 Mar 2009 14:39 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 14:48 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

		Compound	R.T.	Response	Conc	Units	
Target Compounds							
1)	T	Methane	0.00	0	N.D.	ppb	d
2)	T	Ethane	0.00	0	N.D.	ppb	
3)	T	Ethylene	0.00	0	N.D.	ppb	

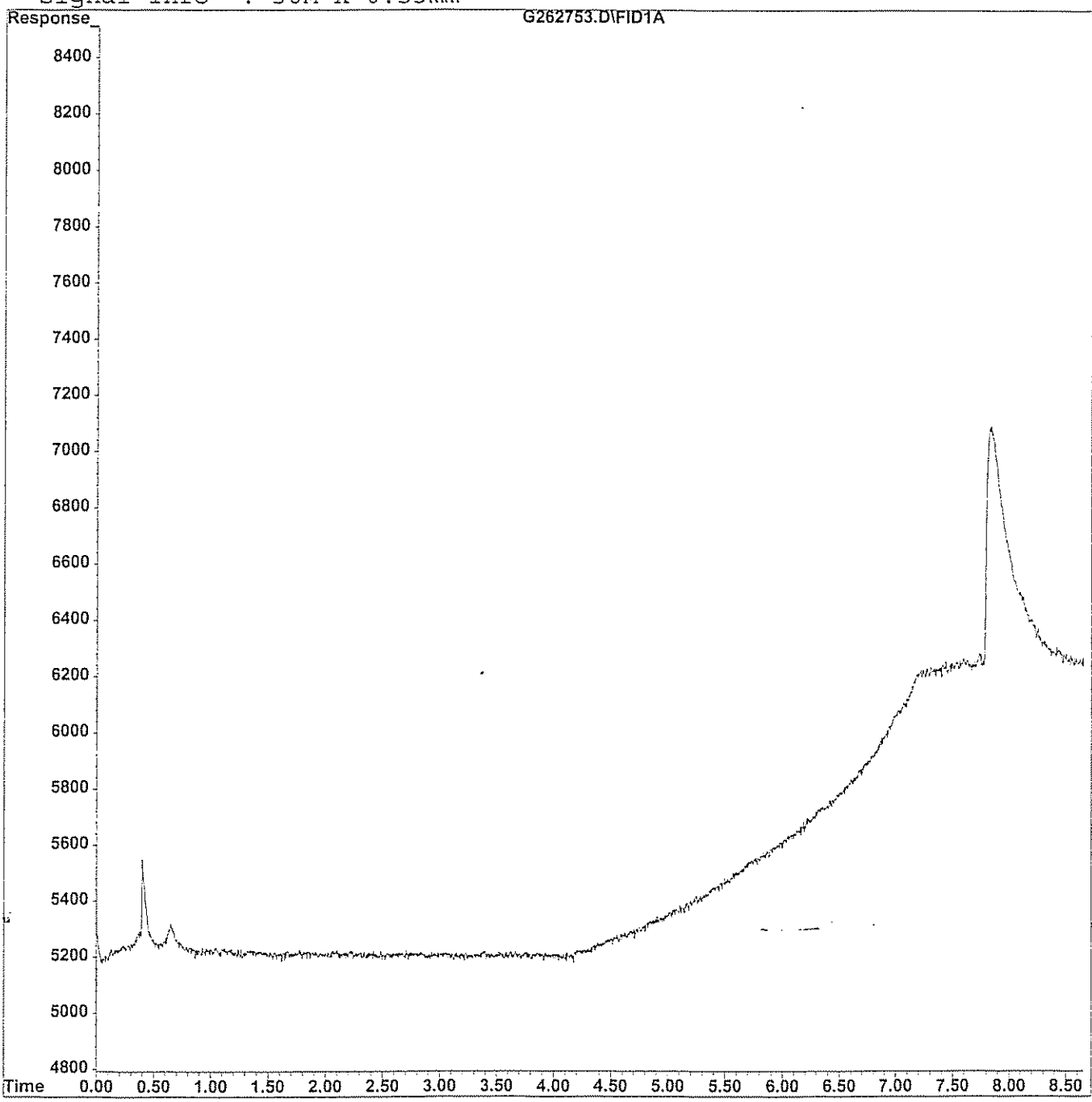
(f)=RT Delta > 1/2 Window (m)=manual
G262753.D RSK0327.M Tue Mar 31 14:49:04 2009 W28_IOANNIDE Page 1

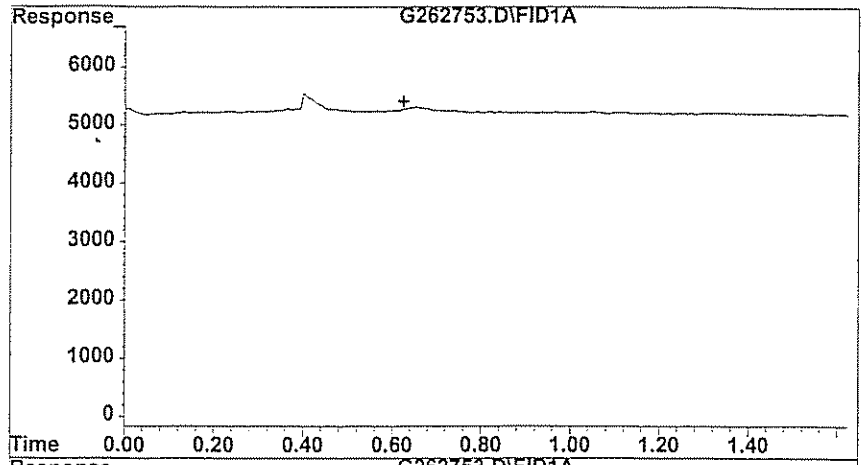
Quantitation Report

Data File : H:\GCDATA\G\033109\G262753.D Vial: 26
Acq On : 31 Mar 2009 14:39 Operator: TG
Sample : BLK Inst : GC-G
Misc : BLK Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 31 14:48 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

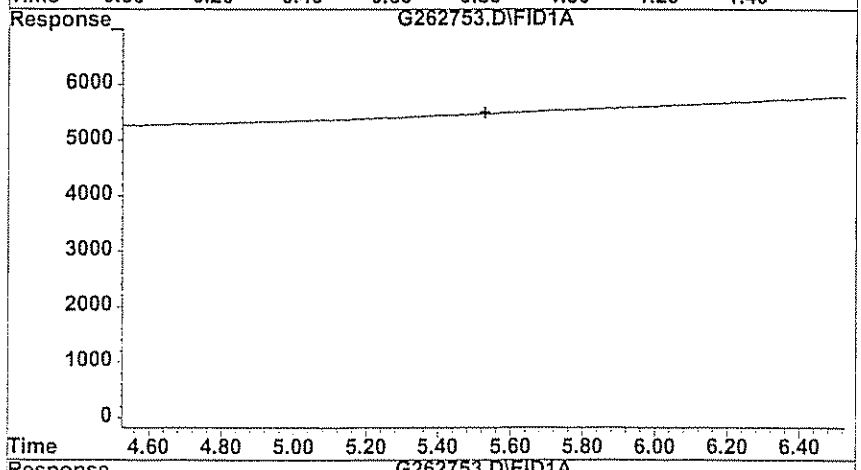
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





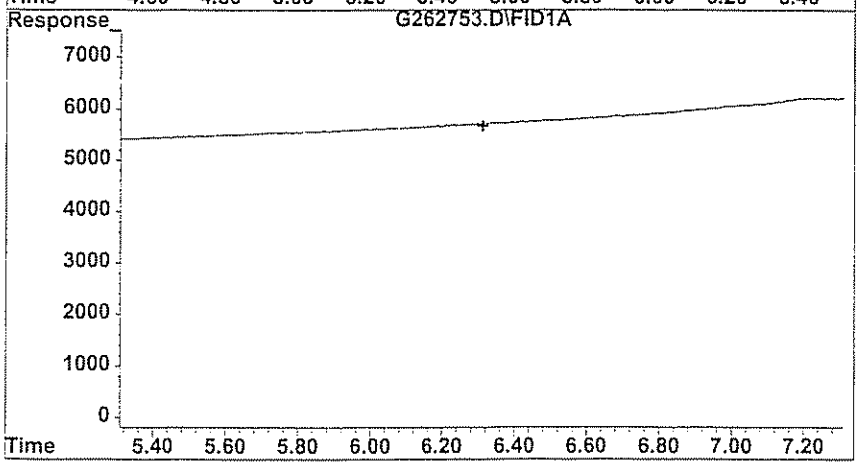
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.623 min
Response: 0
Conc: N.D.



#2 Ethane

R.T.: 0.000 min
Exp R.T. : 5.527 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 6.310 min
Response: 0
Conc: N.D.

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-111-2/6MS
Sample Volume :	1	Lab File ID :	G262692.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	290	
74-85-1	Ethene	280	
74-82-8	Methane	250	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262692.D Vial: 8
Acq On : 27 Mar 2009 12:15 Operator: NK
Sample : 903098-012MS Inst : GC-G
Misc : OU1-N4GW09-0309, CH2M, WATER, 1ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 12:42 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.62	4681	25.067	ppb	
2) T	Ethane	5.54	889	29.272	ppb	m
3) T	Ethylene	6.31	1084	28.398	ppb	m

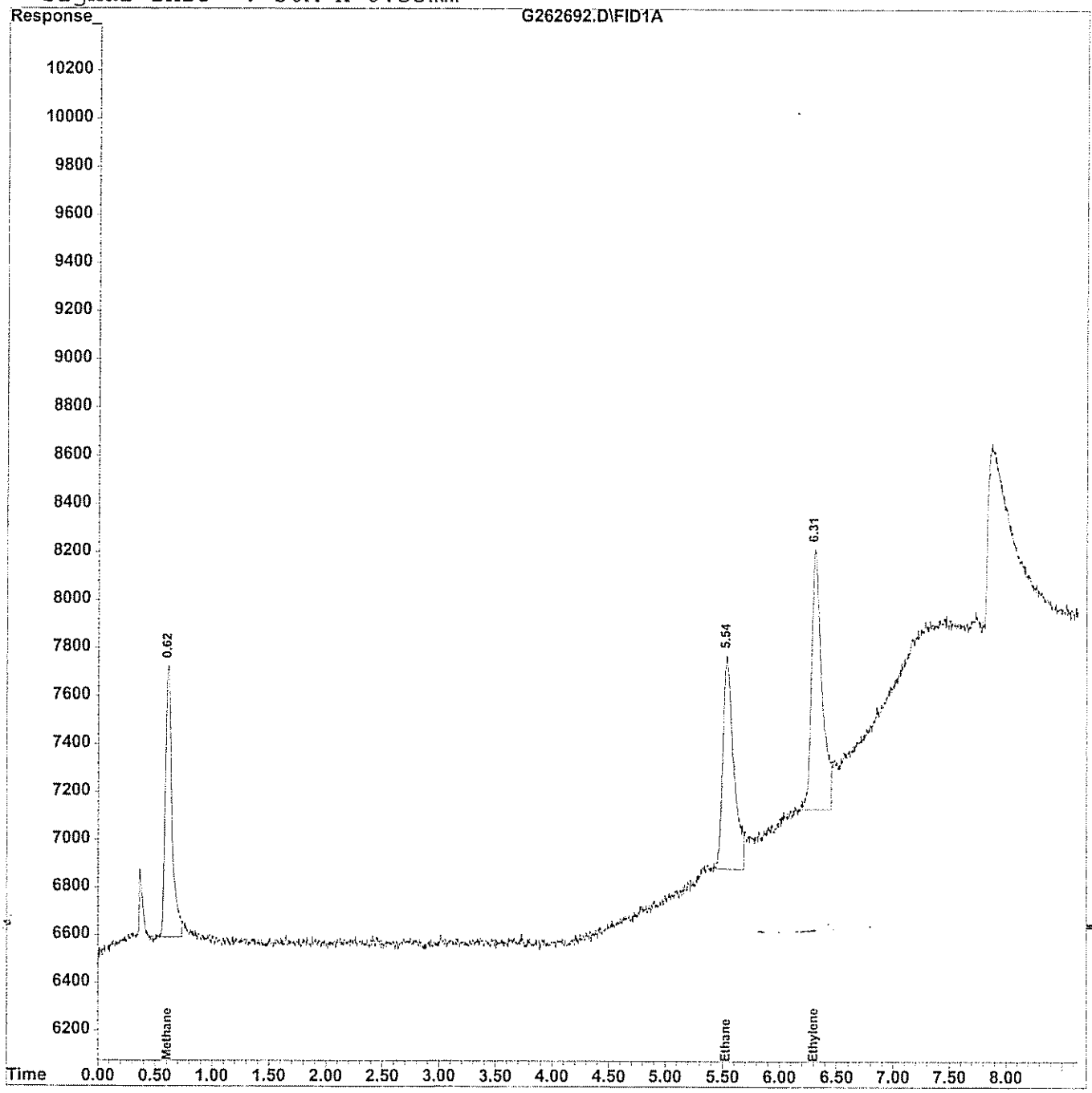
(f)=RT Delta > 1/2 Window (m)=manual int

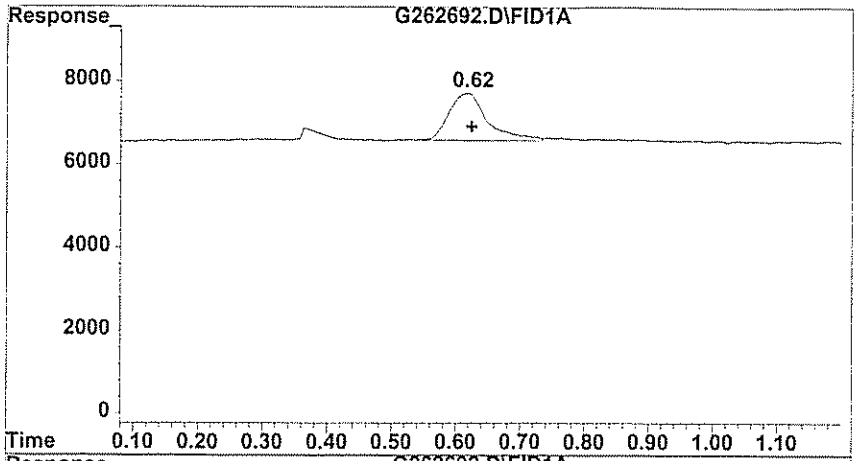
Quantitation Report

Data File : H:\GCDATA\G\032709\G262692.D Vial: 8
Acq On : 27 Mar 2009 12:15 Operator: NK
Sample : 903098-012MS Inst : GC-G
Misc : OU1-N4GW09-0309, CH2M, WATER, 1ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 12:42 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

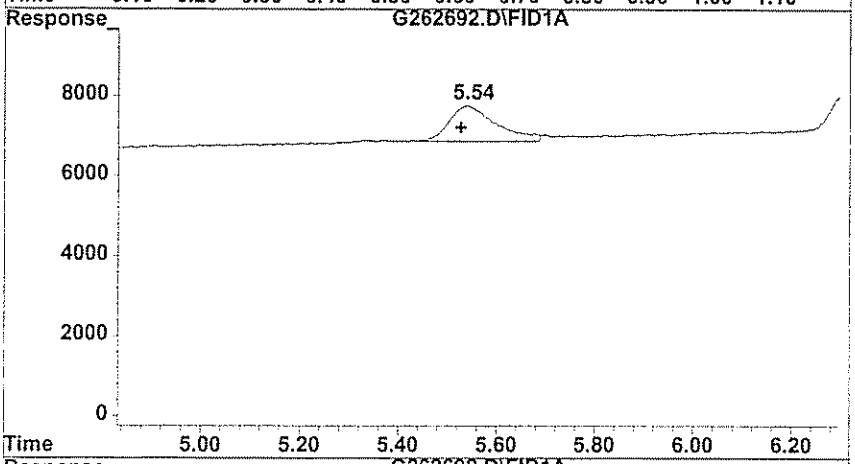
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





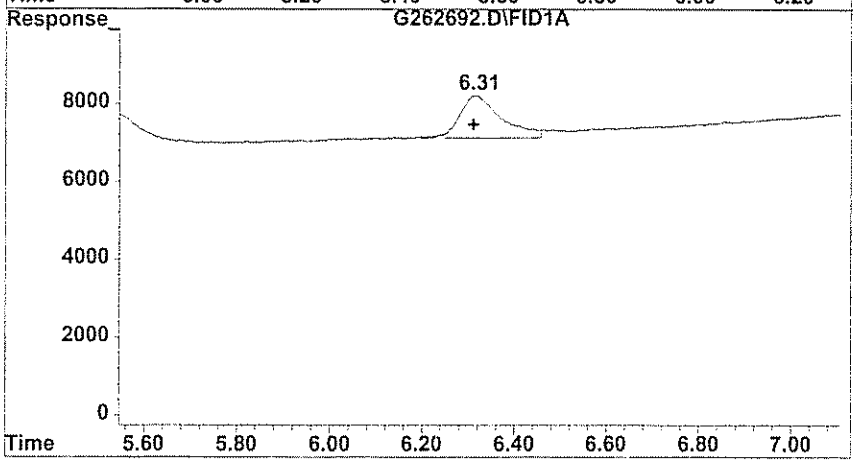
#1 Methane

R.T.: 0.617 min
Delta R.T.: -0.007 min
Response: 4681
Conc: 25.07 ppb



#2 Ethane

R.T.: 5.540 min
Delta R.T.: 0.013 min
Response: 889
Conc: 29.27 ppb m



#3 Ethylene

R.T.: 6.310 min
Delta R.T.: 0.000 min
Response: 1084
Conc: 28.40 ppb m

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-N4GW09-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903098
Case No. :		SDG NO :	903098
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903098-012-111-2/6MSD
Sample Volume :	1	Lab File ID :	G262693.D
Level :	Low	Date Received	03/17/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	290	
74-85-1	Ethene	280	
74-82-8	Methane	240	

Quantitation Report (QT Reviewed)

Data File : H:\GCDATA\G\032709\G262693.D Vial: 9
Acq On : 27 Mar 2009 12:29 Operator: NK
Sample : 903098-012MSD Inst : GC-G
Misc : OU1-N4GW09-0309, CH2M, WATER, 1ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 12:45 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Initial Calibration
DataAcq Meth : GASES.M

Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) T	Methane	0.61	4588	24.569	ppb	m
2) T	Ethane	5.55	884	29.107	ppb	
3) T	Ethylene	6.32	1079	28.267	ppb	m

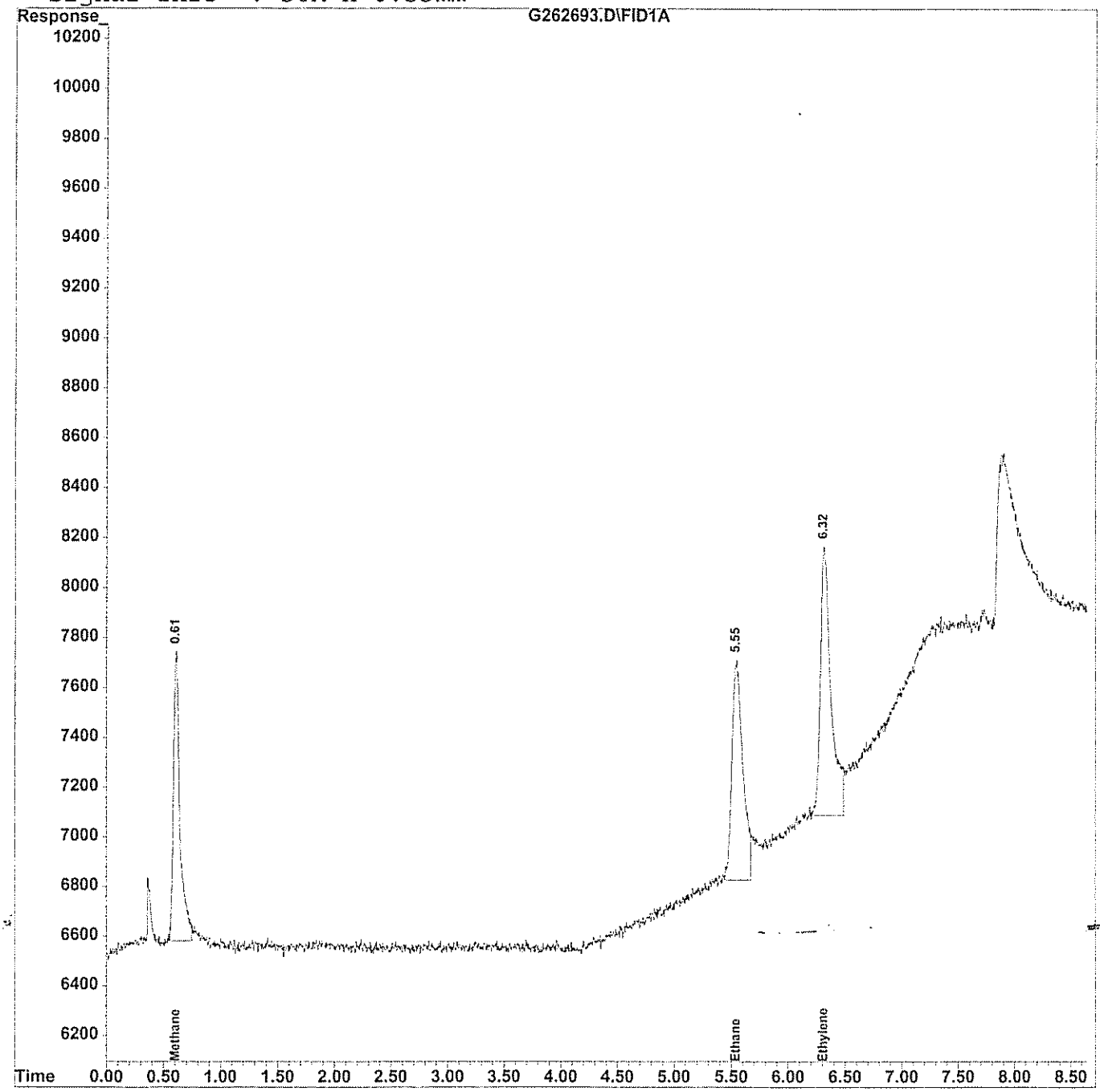
(f)=RT Delta > 1/2 Window (m)=manual int

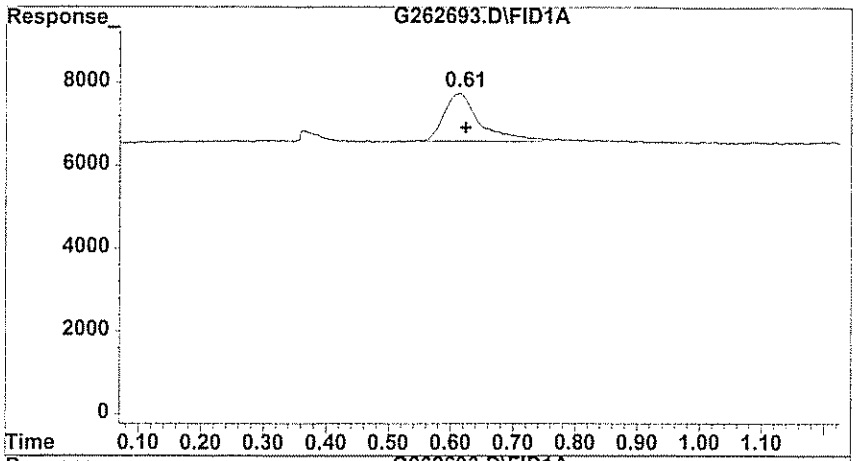
Quantitation Report

Data File : H:\GCDATA\G\032709\G262693.D Vial: 9
Acq On : 27 Mar 2009 12:29 Operator: NK
Sample : 903098-012MSD Inst : GC-G
Misc : OU1-N4GW09-0309, CH2M, WATER, 1ML Multiplr: 1.00
IntFile : rteint.p
Quant Time: Mar 27 12:45 2009 Quant Results File: RSK0327.RES

Quant Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration
DataAcq Meth : GASES.M

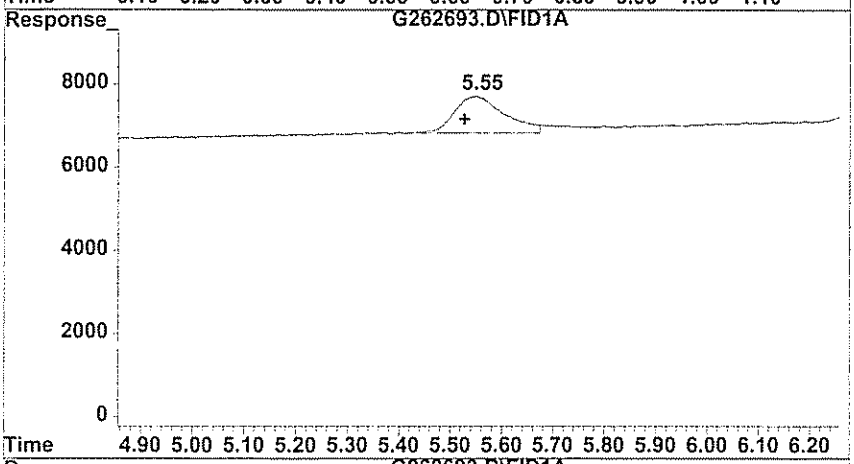
Volume Inj. : 0.5 ML
Signal Phase : CARBOXEN 1006 PLOT
Signal Info : 30M X 0.53mm





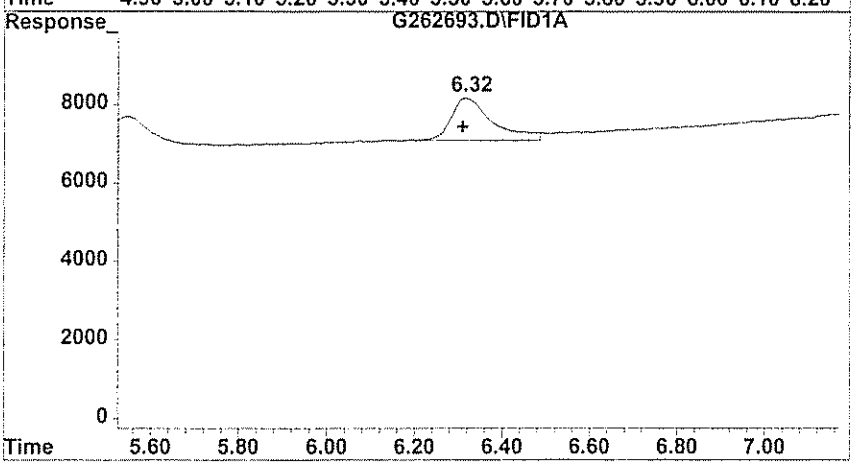
#1 Methane

R.T.: 0.613 min
Delta R.T.: -0.010 min
Response: 4588
Conc: 24.57 ppb m



#2 Ethane

R.T.: 5.550 min
Delta R.T.: 0.023 min
Response: 884
Conc: 29.11 ppb



#3 Ethylene

R.T.: 6.317 min
Delta R.T.: 0.007 min
Response: 1079
Conc: 28.27 ppb m

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: _____ DATE: 3/11/09

INSTRUMENT ID: **HP 5890 # G**
ANALYSIS/FRACTION: VOA
ANALYSTS: TV
ICAL DATE: 3/31/09

METHOD FILE: 0327.m
SEQUENCE FILE: 03/31/09

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G 262728	CCV	3/31/09	1X	water	10ml	NA	8SIL 175	OK
	G 29	BLK							OK
	G 30	903124-001							need dilution
	G 31	-002							need dilution
	G 32	-001DL		5X		2ml			OK
	G 33	-002DL		20X		0.5ml			OK
	G 34	-003		1X		10ml			need dilution
	G 35	-004							OK
	G 36	-003DL		5X		2ml			OK
	G 37	-005		1X		10ml			need dilution
	G 38	-006							need dilution
	G 39	CCV		1X		10ml			not used
	G 40	CCV							used
	G 41	903124-005DL		5X		2ml			OK
	G 42	-006DL		10X		1ml			OK
	G 43	-007		1X		10ml			need dilution
	G 44	-008							need dilution
	G 45	-007DL		10X		1ml			OK
	G 46	-008DL		10X					OK
	G 47	-009		1X		10ml			need dilution
	G 48	-010							need dilution
	G 49	-009DL		10X		1ml			OK
	G 50	-010DL		10X					OK
	G 51	CCV							not used
	G 52	CCV							OK
	G 53	BLK							OK

TV 3/31/09

REMARKS

Standards	Lot #	Conc.	Prep. Date	Volume
methanol	822201L	1000ppm	3/18/09	2-5ml
~~ethanol~~	907605L		3/17/09	
ethylene	801401L		7/16/09	

GC/MS ANALYSIS LOG - VOLATILES

Reviewed By: NV DATE: 4/1/09

INSTRUMENT ID: HP 5890 # G
ANALYSIS/FRACTION: VOA
ANALYSTS: TN
ICAL DATE: 3/27/09

METHOD FILE: D327-m
SEQUENCE FILE: 3/31/09

ALS	FILE ID	GPL ID	DATE	DIL	MATRIX	VOL	PH	METHOD	COMMENTS
	G262754	90324-011	3/31/09	1X	water	10ml	NA	RSK175	need dilution
	G262755	90324-011DL	↓	10X	↓	1ml	↓	↓	OK
	G262756	CCV	3/31/09	↓	water	10ml	NA	RSK175	OK
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REMARKS

2/2

Standards	Lot #	Conc.	Prep. Date	Volume
methane	82820IL	100ppm	3/18/09	2.5
ethane	907005L	↓	3/17/09	↓
ethylene	801401L	↓	7/16/09	↓

GENERAL CHEMISTRY

GPL Laboratories

A. QC Summary

1. Matrix Spike/ Matrix Spike Duplicate Summary

2. Laboratory Control Standard Summary
   (where applicable)

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLP Client: CH2M Hill

GPL Work-Order: 903124

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-52GW47-0309	BQL	BQL	N/C	15%

%RPD - 0 out of 1 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-52GW47-0309	2.00	6.89	5.00	97.8	85 - 115%
TOC	SW9060	OU1-52GW38-0309	2.36	7.35	5.00	99.8	85 - 115%

% Recovery - 0 out of 2 outside control limits

B. Sample Data

GPL Laboratories, LLLP

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1																	
2																	
3																	
4	Sulfide	AN	303124-001-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
5	Sulfide	AN	303124-001-04	MD / S	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
6	Sulfide	AN	303124-002-04	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
7	Sulfide	AN	303124-003-04	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
8	Sulfide	AN	303124-004-04	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
9	Sulfide	AN	303124-005-04	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
10	Sulfide	AN	303124-006-05	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
11	Sulfide	AN	303124-007-05	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
12	Sulfide	AN	303124-008-05	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
13	Sulfide	AN	303124-009-05	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
14	Sulfide	AN	303124-010-05	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
15	Sulfide	AN	303124-011-05	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
16	Sulfide	AN	303125-001-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
17	Sulfide	AN	303125-001-07	MD / S	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
18	Sulfide	AN	303125-002-07	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
19	Sulfide	AN	303125-003-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
20	Sulfide	AN	303125-004-07	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
21	Sulfide	AN	303125-005-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
22	Sulfide	AN	303125-006-07	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
23	Sulfide	AN	303125-007-07	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
24	Sulfide	AN	303125-008-07	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
25	Sulfide	AN	303125-009-07	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
26	Sulfide	AN	303125-010-07	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
27	Sulfide	AN	303125-011-08	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
28	Sulfide	AN	303125-012-08	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
29	Sulfide	AN	303125-013-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000
30	Sulfide	AN	303125-014-08	SMP /	E376.1	0	2.0000	✓	1.2000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	1.2000
31	Sulfide	AN	303125-015-08	SMP /	E376.1	0	2.0000	✓	0.0000	.00000000	MGL	MGL	0.0000	0	0.0000	0.00	0.0000

Method Title: Sulfide (Titrimetric)
Method Reference: MCAWW 376.1 / 9031
Normality of Iodine (Avg. N): 0.0268
Detection Limit: 2.0 mg/L

Analyst: CA
Date / Time: 3.23.09 / 9.00
Reviewed by/Date: CA 3.24.09

ANALYSIS RAW DATA #124186

Work Order	Frac.	Client ID	Sample Vol (ml)	Iodine (ml)	Sodium Thiosulfate (ml)	Sulfide mg/L
IW		#44135	20 mls	5	5.15	4.2
IB		Blank	20 mls	5	5.35	<2.0
903124	001		20 mls	5	5.35	<2.0
" Dup	001		20 mls	5	5.35	<2.0
	002		20 mls	5	5.35	<2.0
	003		20 mls	5	5.30	1.2 <2.0
	004		20 mls	5	5.30	1.2 <2.0
	005		20 mls	5	5.30	1.2 <2.0
	006		20 mls	5	5.30	1.2 <2.0
	007		20 mls	5	5.35	<2.0
	008		20 mls	5	5.35	<2.0
↓	009		20 mls	5	5.30	1.2 <2.0
CCV1		#44135	20 mls	5	5.15	4.2
CCB1		Blank	20 mls	5	5.35	<2.0
903124	010		20 mls	5	5.30	1.2 <2.0
↓	011		20 mls	5	5.35	<2.0
903125	001		20 mls	5	5.35	<2.0
" Dup	001		20 mls	5	5.35	<2.0
	002		20 mls	5	5.30	1.2 <2.0
	003		20 mls	5	5.35	<2.0
	004		20 mls	5	5.30	1.2 <2.0
	005		20 mls	5	5.30	<2.0
↓	006		20 mls	5	5.30	1.2 <2.0

CALCULATION:

1. mg/L Sulfide = $\frac{[(A \times B) - (C \times D)] \times 16000}{\text{mL Sample}}$ 0.134

where:

A = ml Iodine ; B = Normality of iodine;
C = ml $Na_2S_2O_3$ titrant; D = Normality of $Na_2S_2O_3$

* H2O Final Results = Dilution Factor X Concentration

Soil Final Results = $\frac{\text{Dilution Factor x Concentration x extract volume}}{\text{wt. of sample x \% solids}}$

Method Title: Sulfide (Titrimetric)
Method Reference: MCAWW 376.1 / 9031
Normality of Iodine (Avg. N): 0.0268
Detection Limit: 2.0 mg/L

Analyst: CP
Date / Time: 3.23.09 / 9.00a
Reviewed by/Date: OA 3.24.09

Continued from Pg. 70.

ANALYSIS RAW DATA

Work Order	Frac.	Client ID	Sample Vol. (ml)	Iodine (ml)	Sodium Thiosulfate (ml)	Sulfide mg/L
903125	007		20mls	5	5.35	< 2.0
CCV2		# 44135	20mls	5	5.18	3.6
CVB2		Blank	20mls	5	5.35	< 2.0
903125	008		20mls	5	5.30	1.2a < 2.0
	009		20mls	5	5.30	1.2a < 2.0
	010		20mls	5	5.30	1.2 < 2.0
	011		20mls	5	5.30	1.2 < 2.0
	012		20mls	5	5.30	1.2 < 2.0
	013		20mls	5	5.35	< 2.0
	014		20mls	5	5.30	1.2 < 2.0
	015		20mls	5	5.35	< 2.0
CCV3		# 44135	20mls	5	5.15	4.2
CVB3		Blank	20mls	5	5.35	< 2.0

OA 3.24.09

CALCULATION:

1. mg/L Sulfide = $\frac{[(A \times B) - (C \times D)] \times 16000}{\text{mL Sample}}$

where:
A = ml Iodine ; B = Normality of iodine;
C = ml Na2S2O3 titrant; D = Normality of Na2S2O3

* H2O Final Results = Dilution Factor X Concentration

Soil Final Results = $\frac{\text{Dilution Factor x Concentration x extract volume}}{\text{wt. of sample x \% solids}}$

	Description	A	Sample Id	ST	Method	Results	RL Raw	R	Raw	Multiplier	Reporti	Raw Unt	nFinal	Sort	spk	%	Raw Final
1																	
2																	
3																	
4	Total Organic Carbon	AN	903124-001-07	SMP /	SW9060	2.00	1.0000	✓	1.9995	.00000000	MGL	MGL	2.0000	0	0.0000	0.00	1.9995
5	Total Organic Carbon	AN	903124-001-07	MS / S	SW9060	6.89	1.0000	✓	6.8900	.00000000	MGL	MGL	6.8900	0	5.0000	98.00	6.8900
6	Total Organic Carbon	AN	903124-002-07	SMP /	SW9060	1.48	1.0000	✓	1.4818	.00000000	MGL	MGL	1.4800	0	0.0000	0.00	1.4818
7	Total Organic Carbon	AN	903124-003-08	SMP /	SW9060	1.30	1.0000	✓	1.2985	.00000000	MGL	MGL	1.3000	0	0.0000	0.00	1.2985
8	Total Organic Carbon	AN	903124-004-08	SMP /	SW9060	1.82	1.0000	✓	1.8228	.00000000	MGL	MGL	1.8200	0	0.0000	0.00	1.8228
9	Total Organic Carbon	AN	903124-005-08	SMP /	SW9060	3.11	1.0000	✓	3.1050	.00000000	MGL	MGL	3.1100	0	0.0000	0.00	3.1050
10	Total Organic Carbon	AN	903124-006-08	SMP /	SW9060	5.83	1.0000	✓	5.8324	.00000000	MGL	MGL	5.8300	0	0.0000	0.00	5.8324
11	Total Organic Carbon	AN	903124-007-08	SMP /	SW9060	4.39	1.0000	✓	4.3907	.00000000	MGL	MGL	4.3900	0	0.0000	0.00	4.3907
12	Total Organic Carbon	AN	903124-008-08	SMP /	SW9060	3.23	1.0000	✓	3.2324	.00000000	MGL	MGL	3.2300	0	0.0000	0.00	3.2324
13	Total Organic Carbon	AN	903124-009-08	SMP /	SW9060	1.32	1.0000	✓	1.3193	.00000000	MGL	MGL	1.3200	0	0.0000	0.00	1.3193
14	Total Organic Carbon	AN	903124-010-08	SMP /	SW9060	1.78	1.0000	✓	1.7810	.00000000	MGL	MGL	1.7800	0	0.0000	0.00	1.7810
15	Total Organic Carbon	AN	903124-011-08	SMP /	SW9060	2.36	1.0000	✓	2.3550	.00000000	MGL	MGL	2.3600	0	0.0000	0.00	2.3550
16	Total Organic Carbon	AN	903124-011-08	MS / S	SW9060	7.41	1.0000	✓	7.4100	.00000000	MGL	MGL	7.4100	0	0.0000		7.4100

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / 9060

Analyst: DAH
Date: 3-28-09 / 1100
Reviewed by / Date: CM 3.31.09

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
#43278	ICV	20	3	10.3037	10.30	30.9
blank	ICB	20	1	0.2094	0.21	<2.0
903124-001 (1)	Mean = 1.9995 mg/L	20	1	2.0169	2.02	2.02
(2)				2.0274	2.03	2.03
(3)				1.9921	1.99	1.99
(4)				1.9617	1.96	1.96
903124-001MS (1)	Mean = 6.8864 mg/L		1	6.8909	6.89	6.89
(2)	spike = 5.00 mg/L #4761			6.8819	6.88	6.88
903124-002 (1)	Mean = 1.4818 mg/L		1	1.5932	1.59	1.59
(2)				1.4663	1.47	1.47
(3)				1.4199	1.42	1.42
(4)				1.4479	1.45	1.45
#43278	CCV1		3	10.2220	10.22	30.7
blank	CCB1		1	0.2073	0.21	<1.0
903124-003 (1)	Mean = 1.2981 mg/L		1	1.3472	1.35	1.35
(2)				1.3233	1.32	1.32
(3)				1.2826	1.28	1.28
(4)				1.2411	1.24	1.24
903124-004 (1)	Mean = 1.8228 mg/L		1	1.8422	1.84	1.84
(2)				1.8324	1.83	1.83
(3)				1.7891	1.79	1.79
(4)				1.8276	1.83	1.83
903124-005 (1)	Mean = 3.1050 mg/L		1	3.0601	3.06	3.06

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml}}{\text{Sample weight (g) x \% solids}}$

(If not detected, report < _____)

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / 9060

Analyst: DAH
Date: 3-28-09 / 1400
Reviewed by / Date: CW 3-31-09

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
903124-005 (2)		20	1	3.0954	3.10	3.10
(3)				3.1368	3.14	3.14
(4)				3.1283	3.13	3.13
#43278	CCV2	20	3	10.2955	10.30	30.9
blank	CCB2	20	1	0.2628	026	<1.0
903124-006 (1)	Mean = 5.8324 mg/L	20	1	5.4145	5.41	5.41
(2)				5.8466	5.85	5.85
(3)				6.0862	6.09	6.09
(4)				5.9824	5.98	5.98
903124-007 (1)	Mean = 4.3907 mg/L	20	1	4.5502	4.55	4.55
(2)				4.3711	4.37	4.37
(3)				4.3092	4.31	4.31
(4)				4.3323	4.33	4.33
903124-008 (1)	Mean = 3.2324 mg/L	20	1	3.4208	3.42	3.42
(2)				3.2081	3.21	3.21
(3)				3.1461	3.15	3.15
(4)				3.1545	3.15	3.15
#43278	CCV3	20	3	10.1508	10.15	30.5
blank	CCB3	20	1	0.2779	0.28	<1.0
903124-009 (1)	Mean = 1.3193 mg/L	20	1	1.3383	1.34	1.34
(2)				1.2875	1.29	1.29
(3)				1.3023	1.30	1.30
(4)				~~1.2780~~ 1.3494	1.35	1.35

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml)}}{\text{Sample weight (g) x \% solids}}$
(If not detected, report < _____)

& continued pg. 86

Method Title: Total Organic Carbon
Method Reference: MCAWW 415.1 / SM5310C
Lloyd Kahn / 9060

Analyst: DAH
Date: 3-28-09 / DAH
Reviewed by / Date: On 3-31-09

GP ID	Client ID	Sample Vol/Wt.	D.F.	Instrument Reading	Conc.	Final Results mg/L / mg/Kg
903124-010 (1)	Mean = 1.7810 mg/L	20	1	1.7780	1.78	1.78
(2)				1.7708	1.77	1.77
(3)				1.7825	1.78	1.78
(4)				1.7928	1.79	1.79
903124-011 (1)	Mean = 2.3559 mg/L	20	1	2.3496	2.35	2.35
(2)				2.3702	2.37	2.37
(3)				2.3683	2.37	2.37
(4)				2.3356	2.34	2.34
#43278	CCV4	20	3	10.1169	10.12	30.4
blank	CCB4	20	1	0.1995	0.20	<1.0
903124-011MS (1)	Mean = 7.3456 mg/L	20	1	7.4124	7.41	7.41
(2)	Spike = 5.00 mg/L #41781			7.2788	7.28	7.28
#43278	CCV5	20	3	10.3204	10.32	31.0
blank	CCB5	20	1	0.3013	0.30	<1.0
		DAH 3-28-09				

Calculation:
Water Final Results = (instrument reading vs.cal.curve) x dilution factor
Soil Final Results = $\frac{\text{(instrument reading vs.cal. Curve) x 0.040ml}}{\text{Sample weight (g) x \% solids}}$

(If not detected, report < _____)

C. Standard Data

1. Initial Calibration Data

2. Continuing Calibration Data

GPL Laboratories, LLLP

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC | Client: CH2M Hill

Work-Order # 903124 | STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	4.00	4.20	105	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.20	105	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	4.00	4.20	105	70 - 130%

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903124 STD Solution ID: #43278

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	31.9	30.9	97	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	30.7	96	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	30.9	97	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	30.5	96	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	30.4	95	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV5	31.9	31.0	97	90 - 110%

Method Title: Sulfide, Titrimetric, Sodium Thiosulfate
Method Reference: MCAWW 376.1 / 9031

Analyst: CP.
Date / Time: 3.23.09. / 9.00a
Reviewed by/Date: JN 3.24.09

Instrument/Apparatus: Titration

Calibration:
Standardization Iodine Solution

Iodine Solution N = ml of $Na_2S_2O_3$ X 0.025N / 5 ml of Iodine

	ID#	Vol. Used / ml	Normality
Sodium Thiosulfate	#45401	5.35	0.025 N
Sodium Thiosulfate	#45401	5.35	0.025 N
Iodine solution	#44753	5	N 1= 0.0268
Iodine solution	#44753	5	N 2= 0.0268
			Avg N = 0.0268

QC Analysis
ICV Analysis
ICV ID: #44135
T.V.: 4.0 mg/L
Acceptance Range: 70 — 130%
ICV 4.20 mg/L CCV1 4.20 mg/L CCV2 3.6 mg/L
% Rec: ICV 105% CCV1 105% CCV2 90%

Duplicate Analysis Acceptance Range: 15%
Sample ID #1: 903124-001
Init. Sample Value #1: <2.0 mg/L
Dup. Sample Value #1: <2.0 mg/L
RPD #1: 0

Sample ID #2: 903125-001
Init. Sample Value #2: <2.0 mg/L
Dup. Sample Value #2: <2.0 mg/L
RPD #2: 0

LCS Analysis
LCS ID: N/A
T.V.:
F.V. #1:
% R #1:

LCS ID:
T.V.:
F.V. #2:
% R #2:

Reagent:
Starch Indicator ID: #44045
HCL ID: #45241

Comments:

Method Title: Total Organic Carbon Analyst: DM
Method Reference: MCAWW 415.1 / SM5310C/MCAWW415.2 Date: 3-28-09 / 1100
Lloyd Kahn / 9060 Reviewed by / Date: EH 3.31.09

Instrument/Apparatus: Pheonix 8000 - #G #124445

Calibration:

A. 1000ppm Stock Standard Solution ID: #41761
B. 2000ppm Working Standard Solution
C. 10ppm Working Standard Solution

Calibration Curve: ↙ see curve/chart at left

Std. Conc. mg/L	ml Stock Solution	F.V. ml	Instrument Reading
0		100	99421
1.0		100	696265
2.5		100	1601749
5.0		100	3175560
10		100	6124574
15		100	9349585
20		100	12272438
		100	

Corr. Coeff: (≥ 0.9950) .99987
y-Intercept: 89837
Slope: 1.528x105
System Blank: 57668

CCV4 30.4 mg/L 95% CCV3 30.3 95
CCV5 31.0 mg/L 97%
CCV6 ____

QC Analysis

QC ID: #143278
T.V.: 31.9 mg/L

Acceptance Range: 90-110%
Found Value:
ICV 30.9 mg/L
% Recovery:
ICV 97%

CCV1 30.7 mg/L CCV2 30.9 mg/L
CCV1 96% CCV2 97%

Matrix Spike Analysis:

Spike Acceptance Range: 15%
Sample ID #1 903124-001 Sample ID #2 903124-011
Sample Value #1 2.00 mg/L Sample Value #2: 2.36 mg/L
Spike Sample Value #1 6.89 mg/L #2: 7.35 mg/L
Spike Amount: 5.00 mg/L
% Recovery #1 97.8 % #2: 100%

Duplicate Analysis

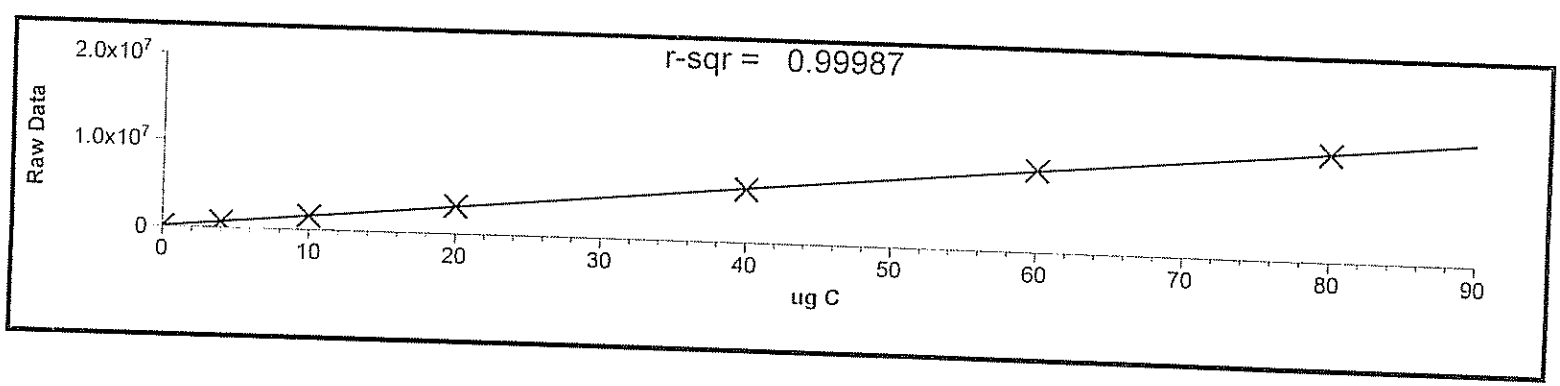
Dup Acceptance Range: 15%
Sample ID #1 / #2 * / ____
Init. Samp. Value #1 / #2 ____ / ____
Dup. Samp. Value #1 / #2 ____ / ____
RPD #1 / #2 ____ / ____

Comments: * samples run in quadruplicate

Calibration Report Print Date/Time: 2009/03/29 11:54:13

Cal. Curve ID:	WATER LOW
Created:	02/25/2009 14:35
Calibration Factor (m):	1.528e+05
Y Intercept (b):	89838
r-squared:	0.99987

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
Blank	99421	0.000	0.063		02/25/2009 13:25
1ppm	696265	4.000	3.970		02/25/2009 13:32
2.5ppm	1601749	10.000	9.897		02/25/2009 13:39
5ppm	3175560	20.000	20.200		02/25/2009 13:46
10ppm	6124574	40.000	39.505		02/25/2009 13:54
20ppm	12272438	80.000	79.750		02/25/2009 14:16
15ppm	9349585	60.000	60.616		02/25/2009 14:34



D. Raw QC Data
(as applicable)

1. Blank Data

2. Matrix Spike/Duplicate Data

3. Laboratory Control Standard Data

5. Extraction Logsheet

6. Injection Logsheet

7. Percent Solids

GPL Laboratories, LLLP

Detailed Analysis Report Print Date/Time: 2009/03/28 17:44:56

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03281021
Timestamp: 03/28/2009 10:27
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.3037	41.2147	6385806	3.597	4.594	139

Sample ID: ICB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03281043
Timestamp: 03/28/2009 10:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2094	0.8375	185604	3.439	4.438	52

Sample ID: 903124-001
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03281049
Timestamp: 03/28/2009 11:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.0169	8.0677	1290089	3.446	4.445	155
2	2.0274	8.1097	1296510	3.554	4.554	149
3	1.9921	7.9686	1274947	3.568	4.567	144
4	1.9617	7.8468	1256348	3.555	4.553	135

<<<Statistics>>> Mean: 1.9995 Std Dev: 0.0292 RSD: 1.46

Sample ID: 903124-001MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03281120
Timestamp: 03/28/2009 11:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

				Baseline	Baseline	Time
1	6.8909	27.5638	4268315	3.417	4.417	171
2	6.8819	27.5277	4262805	3.515	4.514	161

<<<Statistics>>> Mean: 6.8864 Std Dev: 0.0064 RSD: 0.09

Sample ID: 903124-002
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281135
Timestamp: 03/28/2009 11:58
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.5932	6.3727	1031157	3.532	4.526	71
2	1.4663	5.8653	953649	3.384	4.377	69
3	1.4199	5.6794	925254	3.333	4.328	72
4	1.4479	5.7917	942415	3.311	4.310	70

<<<Statistics>>> Mean: 1.4818 Std Dev: 0.0767 RSD: 5.17

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281158
Timestamp: 03/28/2009 12:05
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2220	40.8880	6335891	3.303	4.302	144

Sample ID: CCB1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281206
Timestamp: 03/28/2009 12:11
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2073	0.8290	184311	3.422	4.411	49

Sample ID: 903124-003

Mode: TOC

Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Filename: 03281217
Timestamp: 03/28/2009 12:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.3472	5.3888	880865	3.245	4.243	84
2	1.3233	5.2932	866253	3.291	4.290	78
3	1.2826	5.1305	841405	3.296	4.293	74
4	1.2411	4.9642	816001	3.286	4.282	73

<<<Statistics>>> Mean: 1.2986 Std Dev: 0.0467 RSD: 3.59

Sample ID: 903124-004
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281240
Timestamp: 03/28/2009 13:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.8422	7.3687	1183305	3.299	4.298	106
2	1.8324	7.3297	1177354	3.275	4.275	113
3	1.7891	7.1564	1150881	3.287	4.286	103
4	1.8276	7.3105	1174419	3.290	4.289	109

<<<Statistics>>> Mean: 1.8228 Std Dev: 0.0233 RSD: 1.28

Sample ID: 903124-005
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281306
Timestamp: 03/28/2009 13:29
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.0601	12.2404	1927506	3.334	4.333	92
2	3.0954	12.3814	1949056	3.371	4.367	88
3	3.1363	12.5454	1974097	3.400	4.399	94
4	3.1283	12.5131	1969169	3.427	4.426	92

<<<Statistics>>> Mean: 3.1050 Std Dev: 0.0348 RSD: 1.12

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281334
Timestamp: 03/28/2009 13:40
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2955	41.1818	6380776	3.369	4.369	154

Sample ID: CCB2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281351
Timestamp: 03/28/2009 13:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2628	1.0512	218251	3.383	4.374	52

Sample ID: 903124-006
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281401
Timestamp: 03/28/2009 14:29
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.4145	21.6581	3366161	3.387	4.386	110
2	5.8466	23.3864	3630177	3.561	4.560	150
3	6.0862	24.3449	3776604			
	3.604	4.601	172			
4	5.9824	23.9297	3713174	3.682	4.681	142

<<<Statistics>>> Mean: 5.8324 Std Dev: 0.2954 RSD: 5.06

Sample ID: 903124-007
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281431
Timestamp: 03/28/2009 15:03
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.5502	18.2010	2838049	3.577	4.576	215

2	4.3711	17.4844	2728590	3.552	4.551	200
3	4.3092	17.2366	2690735	3.437	4.436	198
4	4.3323	17.3294	2704905	3.253	4.250	199

<<<Statistics>>> Mean: 4.3907 Std Dev: 0.1094 RSD: 2.49

Sample ID: 903124-008
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281510
Timestamp: 03/28/2009 15:35
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.4208	13.6831	2147904	2.936	3.935	117
2	3.2081	12.8325	2017955	3.135	4.134	98
3	3.1461	12.5845	1980073	3.026	4.026	94
4	3.1545	12.6181	1985214	3.080	4.078	96

<<<Statistics>>> Mean: 3.2324 Std Dev: 0.1286 RSD: 3.98

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281535
Timestamp: 03/28/2009 15:41
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.1508	40.6034	6292411	3.014	4.014	110

Sample ID: CCB3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281542
Timestamp: 03/28/2009 15:47
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2779	1.1114	227449	3.147	4.141	50

Sample ID: 903124-009
Mode: TOC

Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Filename: 03281548
Timestamp: 03/28/2009 16:11
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.3494	5.3975	882183	2.857	3.856	79
2	1.3383	5.3531	875402	2.898	3.896	81
3	1.2875	5.1498	844353	2.938	3.934	77
4	1.3023	5.2090	853402	2.949	3.944	75

<<<Statistics>>> Mean: 1.3194 Std Dev: 0.0293 RSD: 2.22

Sample ID: 903124-010
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03281613
Timestamp: 03/28/2009 16:37
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.7780	7.1119	1144075	2.945	3.944	91
2	1.7708	7.0831	1139689	2.937	3.935	85
3	1.7825	7.1300	1146841	2.896	3.894	88
4	1.7928	7.1714	1153166	2.945	3.944	89

<<<Statistics>>> Mean: 1.7810 Std Dev: 0.0092 RSD: 0.52

Sample ID: 903124-011
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH
Mode: TOC
Filename: 03281638
Timestamp: 03/28/2009 17:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.3496	9.3986	1493394	2.936	3.935	124
2	2.3702	9.4807	1505933	2.970	3.969	130
3	2.3683	9.4731	1504783	2.997	3.996	128
4	2.3356	9.3426	1484841	3.039	4.039	123

<<<Statistics>>> Mean: 2.3559 Std Dev: 0.0164 RSD: 0.70

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281705
Timestamp: 03/28/2009 17:11
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.1169	40.4678	6271701	2.953	3.950	128

Sample ID: CCB4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281712
Timestamp: 03/28/2009 17:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1995	0.7979	179560	3.024	4.017	48

Sample ID: 903124-011MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281717
Timestamp: 03/28/2009 17:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.4124	29.6498	4586968	2.860	3.858	158
2	7.2788	29.1151	4505297	3.096	4.095	146

<<<Statistics>>> Mean: 7.3456 Std Dev: 0.0945 RSD: 1.29

Sample ID: 43278
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: WATER LOW
Operator ID: DH

Mode: TOC
Filename: 03281732
Timestamp: 03/28/2009 17:38
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.3204	41.2814	6395997	3.049	4.047	127

Sample ID:	CCB5	Mode:	TOC
Method:	TOC Range 0.1 - 20 ppm C	Filename:	03281739
Cal. Curve:	WATER LOW	Timestamp:	03/28/2009 17:44
Operator ID:	DH	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3013	1.2051	241752	3.113	4.106	48

GPL Laboratories

Work Order Approval

Work Order #: 903124
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-19-2009
Fax Due Date: Apr-02-2009
HC Due Date: Apr-02-2009
EDD Due Date Apr-02-2009

APPROVED

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

Contact: Emma Brower
Phone: 7033765082
Fax: 7033765582
E-Mail:

Comments: Level 4 Data Package
SNEDD EDD
ALL METHODS MUST MEET QSM VERSION 3 GUIDELINES.
For TOC Analysis CH2M Hill requests quadruplicate results on form 1's, and average result in EDD.

Lab ID : 903124-001 Field ID : OU1-52GW47-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev	Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6		HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6		HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E		COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E		SAPC	7D	
Total Organic Carbon	W	8	A-3E		SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6		HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6		HC	21D	

Lab ID : 903124-002 Field ID : OU1-52GW71-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev	Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6		HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6		HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E		COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E		SAPC	7D	
Total Organic Carbon	W	8	A-3E		SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6		HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6		HC	21D	

Lab ID : 903124-003 Field ID : OU1-52GW42-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev	Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6		HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6		HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E		COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E		SAPC	7D	
Total Organic Carbon	W	8	A-3E		SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6		HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6		HC	21D	

Approved By: _____ **Date and Time Approved :** 3-19-09

GPL Laboratories

Work Order Approval

Work Order #: 903124
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-19-2009
Fax Due Date: Apr-02-2009
HC Due Date: Apr-02-2009
EDD Due Date Apr-02-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903124-004 Field ID : OU1-52GW72-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E	COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E	SAPC	7D	
Total Organic Carbon	W	8	A-3E	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903124-005 Field ID : OU1-52GW48-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E	COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E	SAPC	7D	
Total Organic Carbon	W	8	A-3E	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903124-006 Field ID : OU1-52GW56-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E	COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E	SAPC	7D	
Total Organic Carbon	W	8	A-3E	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903124-007 Field ID : OU1-52GW39-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E	COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E	SAPC	7D	
Total Organic Carbon	W	8	A-3E	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

Work Order #: 903124
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-19-2009
Fax Due Date: Apr-02-2009
HC Due Date: Apr-02-2009
EDD Due Date Apr-02-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903124-008 Field ID : OU1-52GW58-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E	COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E	SAPC	7D	
Total Organic Carbon	W	8	A-3E	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903124-009 Field ID : OU1-52GW55-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E	COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E	SAPC	7D	
Total Organic Carbon	W	8	A-3E	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903124-010 Field ID : OU1-52GW57-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E	COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E	SAPC	7D	
Total Organic Carbon	W	8	A-3E	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903124-011 Field ID : OU1-52GW38-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	(On Hold/Spare)
GCFID Analysis of hydrocarbon gases	W	8	A1-6	HC	28D	
Inorganic Anions by EPA 300	W	8	A-3E	COOL	7D	
Sulfide by EPA 376.1	W	8	A-3E	SAPC	7D	
Total Organic Carbon	W	8	A-3E	SCPH2	7D	
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	8	A1-6	HC	21D	

Lab ID : 903124-012 Field ID : OU1-TB14-0309 Date Collected : 18-MAR-09

Method Name	Mtx	#Cont	Storage Loc	Presev Class	TAT	Comments
VOC by Method SW-846 using 25 ML Purge	W	3	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-6	HC	21D	

Approved By: _____ **Date and Time Approved :** _____

GPL Laboratories

Work Order Approval

Work Order #: 903124
GPL PM Garth Herdrich
Project #: 24981
Project Name CTO-059 386383.FI.FQ.FQ

Date Received Mar-19-2009
Fax Due Date: Apr-02-2009
HC Due Date: Apr-02-2009
EDD Due Date Apr-02-2009

Client: CH2M Hill Inc
Address: 15010 Conference Center Drive, Suite 200

APPROVED

Lab ID : 903124-013 Field ID : OU1-TB15-0309 Date Collected : 18-MAR-09

Method Name	*Mtx*	*#Cont*	*Storage Loc*	*Presev Class*	*TAT*	*Comments*
VOC by Method SW-846 using 25 ML Purge	W	3	A1-6	HC	21D	(On Hold/Spare)
VOC by Method SW-846 using 25 ML Purge	W	3	A1-6	HC	21D	

Approved By: _____ Date and Time Approved : _____

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Nitrate & Nitrite = 48h
Sulfate = 28d

Contract #/Billing Reference

1 of 2 Pgs.

Project: GW Sampling @ Old Cherry Point
Client: CH2M Hill
Send Results To: Bill Hanna
Address: 5700 Cleveland St. Suite 101
Virginia Beach, VA 23462
Phone: (757) 671-6277

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	Turnaround Time	14d	Dec Close	7d	14d	28d	Lab Cooler No.	CLIENT COMMENTS
					# of Containers	3	1	1	2	1		
					Container Type	VOA	500z. plastic	500z. plastic	VOA	500z. plastic		
					Preservative Used	HCl	None	NaOH	HCl	H_2SO_4		
					Type of Analysis	SW846 8260B (VOCs)	EPA 300.0 (Nitrate/Nitrite) (Chloride)	EPA 310.1 (Sulfate)	RSK-175 (Methane, ethane, ethene)	SW846 9060 (TOC)		
OU1-52GW47-0309	03/18/09	10:40	Water	DM		3	1	1	2	1		Low Voc exp.
OU1-52GW71-0309	03/18/09	16:35	Water	KB		3	1	1	2	1		Low Voc exp.
OU1-52GW42-0309	03/18/09	13:15	Water	DM		3	1	1	2	1		High Turbity decrease LW TAT to TArays Voc
OU1-52GW72-0309	03/18/09	15:35	Water	KB		3	1	1	2	1		Low Voc exp
OU1-52GW48-0309	03/18/09	11:25	Water	DM		3	1	1	2	1		Low Voc exp.
OU1-52GW56-0309	03/18/09	11:45	Water	KB		3	1	1	2	1		
OU1-52GW31-0309	03/18/09	15:50	Water	KB		3	1	1	2	1		
OU1-52GW55-0309	03/18/09	10:54	Water	KB		3	1	1	2	1		
OU1-52GW35-0309	03/18/09	12:56	Water	KB		3	1	1	2	1		
OU1-52GW57-0309	03/18/09	10:11	Water	KB		3	1	1	2	1		
OU1-52GW33-0309	03/18/09	14:35	Water	KB		3	1	1	2	1		
OU1-TB140309	03/18/09	—	Water	✓		3	—	—	—	—		

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Kurt Brocktmann	03/18/09 18:00			Walter Bell	3/19/09 9:30
Relinquished By:	Date/Time	Received By:	Date/Time / Shipper:	Airbill No.:	
Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp: 30	

G.P. W.O. 90324

CTO - 059

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Contract #/Billing Reference

2 of 2 Pgs.

Project: GW Sampling @ OU1 Cherry Point
Client: CH2M Hill
Send Results To: Bill Hanna
Address: 5700 Cleveland St. Suite 101
Virginia Beach, VA 23462
Phone: (757) 671-6277

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	Sample 524.2 (VOCs)	Turnaround Time: 14d	# of Containers: 3	Container Type: VOA	Preservative Used: HCl	Type of Analysis	Lab Cooler No.	CLIENT COMMENTS
OU1-TB15-0309	03/18/09	✓	water	✓	3							

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Kurt Brodtmann	03/18/09 18:00			Walter Beck	3/19/09 9:30
Relinquished By:	Date/Time	Received By:	Date/Time / Shipper:	Airbill No.:	
Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp: 3°	

G.P. W.O. 90324

Corrections to COCs

TO: Garth Herdrich

COPIES: File
EDD
Laboratory Package Multiple SDGs

FROM: Kyle Block
EIS
CH2M HILL

DATE: March 24, 2009

This memo is to document corrections made to entries on the Chains of Custody (COC) and Lab Logins for Cherry Point CTO-059.

The SDG 903062 had the sample below incorrectly labeled on the Lab Login. Please make the appropriate change changes to all deliverables.

Change Sample ID to this:	Incorrectly labeled ID:	Date Sample	Time Sample
OU1-MW50-0309	OU1-MW5D-0309	3/10/2009	12:05

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Additionally the below samples did not have sample times correlating to the sample on the COCs. Please add the **times** and make the appropriate changes to the COC and make appropriate changes to all deliverables.

Sample ID	Date Sample	Time Sample	SDG
OU1-TB01-0309	3/10/2009	6:50	903062
OU1-TB02-0309	3/11/2009	18:00	903069
OU1-TB03-0309	3/11/2009	18:02	903069
OU1-TB04-0309	3/11/2009	18:04	903069
OU1-TB05-0309	3/12/2009	17:15	903071
OU1-TB06-0309	3/13/2009	17:10	903093
OU1-TB07-0309	3/13/2009	17:12	903093
OU1-TB08-0309	3/16/2009	17:55	903098
OU1-TB09-0309	3/16/2009	17:57	903098
OU1-TB10-0309	3/16/2009	17:59	903098
OU1-TB11-0309	3/17/2009	17:55	903125
OU1-TB12-0309	3/17/2009	17:57	903125
OU1-TB13-0309	3/17/2009	17:59	903125
OU1-TB14-0309	3/18/2009	17:55	903124
OU1-TB15-0309	3/18/2009	17:57	903124
OU1-MW53P-0309	3/15/2009	15:20	903098
OU1-52GW46P-0309	3/16/2009	11:02	903098

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GPL Laboratories, LLLP

Figure 3

Sample Preservation Check Documentation Form

Work Order: 903124

Parameter: / Preservative: / pH Value	Metals (*A) HNO3 <2	Phenol H2SO4 <2	TPH O&G H2SO4 <2	Classical Parameters H2SO4 <2	Cyanide NaOH >12	Sulfide NaOH >9	Radiology (*B) HNO3 <2	Other Preservatio Adjustment	Reagent Lot #	see checklist for comments
GPL ID										
041-52GW47-0309				✓		✓		Y / N		
041-52GW71-0309				✓		✓		Y / N		
041-52GW42-0309				✓		✓		Y / N		
041-52GW72-0309				✓		✓		Y / N		
041-52GW48-0309				✓		✓		Y / N		
041-52GW56-0309				✓		✓		Y / N		
041-52GW39-0309				✓		✓		Y / N		
041-52GW58-0309				✓		✓		Y / N		
041-52GW055-0309				✓		✓		Y / N		
041-52GW57-0309				✓		✓		Y / N		
041-52GW38-0309				✓				Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
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								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		

(*A). If drinking water metals sample is acidified in the laboratory, the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.

(*B). If Radiochemistry sample is acidified in the laboratory, the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement. Tritium analysis should NOT be preserved.

Sample Preservation Check Performed By: Walter Bell Date: 3/19/09

FedEx Express **US Airbill**

FedEx Tracking Number 8656 2052 8221

Form ID No. 0200

From *Please print and press hard.*

Date 3/18/09 Sender's FedEx Account Number

Sender's Name Anika Muslawski Phone (541) 723 1648

Company CH2M Hill Hampton (Havelock)

Address 105 Tourist Center Drive

Dept/Floor/Suite/Room

City Havelock State NC ZIP 28532

Your Internal Billing Reference OPTIONAL

First 24 characters will appear on invoice.

To

Recipient's Name Attn Sample Receiving Phone 3011694 5310

Company GPL Laboratories

Recipient's Address 7210 A Corporate Court

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Frederick State MD ZIP 21703

4a Express Package Service *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation. ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [ ] Other

* Declared value limit $500.

6 Special Handling Includes FedEx addresses in Section 3

- [ ] SATURDAY Delivery — NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — NOT Available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [x] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. or Credit Card No. 1867 18208 Exp. Date

Total Packages	Total Weight	Total Declared Value†
5		$ 3000 .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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Simplify your shipping. Manage your account. Access all the tools you need.

RETAIN THIS COPY FOR YOUR RECORDS.

GPL Laboratories, LLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903124
Client Name: Chemtech
Date Received: 3/19/09
Time Received: 9:30
Received By: Walter

Carrier Name: Fed-Ex
Prepared (Logged In) By: WS 3/19/09
Project:
Site:
VOA Holding Blank ID No:

	YES	NO
Airbill/Manifest Present?	✓	
No: 8656205282 2 1		
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?	✓	
Condition: Good ✓ Broken		
Chain of Custody Present?	✓	
Chain of Custody Agrees with Sample Labels?	✓	
Chain of Custody Signed?	✓	
Packing Present in Shipping Container?	✓	
Type of Packing Bubble wrap		
Custody Seals on Sample Bottles?	✓	
Condition: Good ✓ Broken		
Total Number of Sample Bottles 94	✓	
Total Number of Samples 13	✓	
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks Received?	✓	
No. of Sets 2		
VOA Vials Have Zero Headspace?	✓	
Preservatives Added to Sample?	✓	
pH Check Required?	✓	
Performed By: WS		
Ice Present in Shipping Container?	✓	

Container #	Temperature
5°	3°
	WS

Project Manager Contacted?
Name: Garth
Date Contacted: 3/19/09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS:

Checklist Completed By: Walter B.
Date: 3/19/09

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903124

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Thirteen water samples were received on 03/19/2009. The samples were delivered by Federal Express. Sample receipt conditio and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soi are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Thirteen water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
Sample OU1-52GW58-0309 was diluted to fit the results within the instrument calibration.
All surrogate recoveries and internal standard responses were within the QC limits.
A matrix spike and matrix spike duplicate were shared from work order 903192. The RPDs of three compounds, out of forty-eigh were outside of the RPD QC limits, and twenty-seven spike recoveries, out of ninety-six, were outside of the QC limits.
A laboratory control sample was analyzed along with the sample batches. BKS108871 had two spike recoveries outside of the QC limits. BKS108876 had five spike recoveries outside of the QC limits. BKS108880 had four spike recoveries outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrate compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

DW 3/30/09

Work Order: 903124 Method: 8260

Volatiles Package Review Checklist

Case Narrative

	Analyst	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.	✓	
2. All nonconformances and corrective action must be mentioned and explained.	✓	
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	
4. If reanalyses were performed, one analysis must be designated to report results.	✓	

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	
2. Double-check spike amounts for the LCS and MS/MSD.	✓	
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	
4. A form 5 for the initial calibration must be provided.	✓	

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	
Raw Conc. x (5/mass) / 1 – (%moisture/100) *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	

Work Order: 903124 Method: 8260

3. Column name & ID are properly labeled.	✓	
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{\text{10mL of MeOH}}{\text{grams of soil}} \times \frac{\text{5mL Purge Volume}}{\text{mL of Extract Spiked}}$	✓	
5. All analyte recoveries over the calibration limit are flagged "E".	✓	
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	✓	
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	✓	

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	
2. All continuing calibrations used to analyze the samples are included.	✓	
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	✓	
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	
4. Injection Logbook copies must be provided for all analysis sequences.	✓	
5. If TCLP, a copy of the Extraction Log must be provided.	✓	
6. If Encore samples, a copy of the Sample Weight Log must be provided.	✓	

Analyst Signature: _____ Date: 3/23/09

Reviewer Signature: _____ Date: _____

Case Narrative

CH2M Hill Inc

Work Order: 903124

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Thirteen water samples were received on 03/19/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Thirteen water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.
Sample OU1-52GW58-0309 was diluted to fit the results within the instrument calibration.
All surrogate recoveries and internal standard responses were within the QC limits.
A matrix spike and matrix spike duplicate were shared from work order 903192. The RPDs of three compounds, out of forty-eight, were outside of the RPD QC limits, and twenty-seven spike recoveries, out of ninety-six, were outside of the QC limits.
A laboratory control sample was analyzed along with the sample batches. BKS108871 had two spike recoveries outside of the QC limits. BKS108876 had five spike recoveries outside of the QC limits. BKS108880 had four spike recoveries outside of the QC limits.
Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Eleven water samples were analyzed for Chloride, Nitrite as Nitrogen, and Nitrate as Nitrogen by EPA method 300.0

Matrix spike and duplicate analyses were performed on samples OU1-52GW47-0309 and OU1-52GW71-0309. Percent recoveries for Chloride were above the QC limits in both Matrix Spike analyses. Since Chloride had recovery within the QC limits in the laboratory control sample, no corrective action was taken. Percent recovery for Nitrate as Nitrogen was slightly below the QC limits in the Matrix Spike analysis of sample OU1-52GW47-0309. Since Nitrate as Nitrogen had recovery within the QC limits in the laboratory control sample, no corrective action was taken. Due to matrix interference, percent recovery of Nitrite as Nitrogen was above the QC limits in sample OU1-52GW71-0309. Since Nitrite as Nitrogen was not recovered in any client samples and recovery for Nitrite as Nitrogen was within the QC limits in the laboratory control sample, no corrective action was taken. All other QC criteria were met.

A laboratory control sample was analyzed along with the batch. All QC criteria were met.

In CCVH4 (run on 3/18/09), percent recovery for Nitrate as Nitrogen is slightly above the QC limits. Since Nitrate as Nitrogen was

Case Narrative

CH2M Hill Inc

Work Order: 903124

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

not reported from the high curve, no corrective action was taken. All other QC criteria were met.

JCSA 3/31/09

GPL LABORATORIES, LLLP

IC CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903124

PARAMETER: E300

		CRITERIA MET YES	NO	NA
EXTRACTION HOLDING TIMES				✓
ANALYSIS HOLDING TIMES		✓		
CALIBRATION CURVE IF NO,		✓		
INITIAL CALIBRATION IF NO,		✓		
CONTINUING CALIBRATION	* see narrative		✓*	
RETENTION TIME		✓		
METHOD BLANK		✓		
MS/MSD RECOVERIES IF NO	* see narrative		✓*	
DUP RECOVERIES		✓		
LCS RECOVERIES		✓		
CALCULATION CHECK		✓		
Is the peak integration in all initial and continuing calibrations as well as each chromatogram, conducted correctly, and in accordance with good laboratory practices and the GPL policies, SOPs and QA manual? IF" NO", the affected chromatograms must be immediately reviewed and re-integrated by the Lab Director and the QA manager,prior to their final release.		✓		
Has the manual integration been signed off on (initialled and dated)?		✓		
WAS IMPORTATION INTO LIMS CORRECT?		✓		JCSA Initials

ADDITIONAL COMMENTS

SIGNATURE [signature] DATE 3/31/09

REVIEWED BY _____ DATE _____

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

not reported from the high curve, no corrective action was taken. All other QC criteria were met.

General Chemistry

Eleven water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on sample OU1-52GW47-0309. All QC criteria were met.

Eleven water samples were analyzed for Total Organic Carbon using EPA method 9060A. Samples were run in quadruplicate, thus no duplicate analysis was performed. Matrix spike analysis was peformed on samples OU1-52GW47-0309 and OU1-52GW38-0309. All QC criteria were met.

Other Analysis

Eleven water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were shared with work order 903098. Two spike recoveries outside of the QC limits. All %RPDs were within the RPD limits.

4/1/09

Work Order: 903124 Method: 8514

Volatiles Package Review Checklist

Case Narrative

	Analyst	*Reviewer*
1. Proofread to ensure there are no spelling and grammatical errors.	✓	✓
2. All nonconformances and corrective action must be mentioned and explained.	✓	✓
3. Any unusual results (i.e. target analyte recoveries in the trip blank) must be explained.	✓	✓
4. If reanalyses were performed, one analysis must be designated to report results.	✓	✓

QC summary forms

1. All QC summary forms must be provided for all sample batches.	✓	✓
2. Double-check spike amounts for the LCS and MS/MSD.	✓	✓
3. A LCS and MS/MSD must be provided for each matrix, if not, the Case Narrative must explain the circumstances.	✓	✓
4. A form 5 for the initial calibration must be provided.	✓	✓

Sample Data

1. PERCENT MOISTURE IS PROVIDED FOR ALL SOIL SAMPLES AND RESULTS ARE ADJUSTED.	✓	✓
Raw Conc. x (5/mass) 1 – (%moisture/100) *Sample Calculations* Sample ID:_____ Sample ID: _____ Result:_____ PPB Result:_____ PPB		
2. All samples are properly labeled with "RE" & "DL".	✓	✓

Work Order: 903124 Method: RSK

3. Column name & ID are properly labeled.	✓	✓
4. Dilution factors are correct. Medium Level Dilution Calculation: $\frac{10mL\ of\ MeOH}{grams\ of\ soil} \times \frac{5mL\ Purge\ Volume}{mL\ of\ Extract\ Spiked}$	✓	✓
5. All analyte recoveries over the calibration limit are flagged "E".	✓	✓
6. Straight and diluted recoveries "match" and any inconsistencies were explained in the Case Narrative.	✓	✓
7. Verify all target recoveries reported on the Form 1 are reported on the Quant report and vice versa.	✓	✓

Calibration Data

1. All initial calibrations used to analyze the samples are included.	✓	✓
2. All continuing calibrations used to analyze the samples are included.	✓	✓
3. Any %RSDs or %Ds outside of QC limits are explained in the Case Narrative if necessary.	✓	✓

QC Data

1. Any BLKs or BKSs analyzed as medium level have a dilution factor of 50, NOT 125.	✓	✓
2. Any recoveries found in the BLK are explained in the Case Narrative.	✓	✓
3. BKS & MS/MSD Form 1s must show all spiked compounds. If the number of spiked compounds is less than the target list, then the Form 1 must be adjusted to omit non-spiked compounds.	✓	✓
4. Injection Logbook copies must be provided for all analysis sequences.	✓	✓
5. If TCLP, a copy of the Extraction Log must be provided.	✓	✓
6. If Encore samples, a copy of the Sample Weight Log must be provided.	✓	✓

Analyst Signature: _____ Date: 4/1/09

Reviewer Signature: _____ Date: 4/1/09 4/1/09

GPL Laboratories, LLLP

Case Narrative

CH2M Hill Inc

Work Order: 903124

Case Narrative Comments have not been Reviewed

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Eleven water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on sample OU1-52GW47-0309. All QC criteria were met.

Eleven water samples were analyzed for Total Organic Carbon using EPA method 9060A. Samples were run in quadruplicate, thus no duplicate analysis was performed. Matrix spike analysis was peformed on samples OU1-52GW47-0309 and OU1-52GW38-0309. All QC criteria were met.

CSA 3/31/09

GPL LABORATORIES, LLLP

WET CHEM CONFORMANCE SUMMARY REPORT

WORK ORDER NO: 903124

PARAMETER: 9060 / 3741

	CRITERIA MET YES	NO	NA
HOLDING TIMES	✓		
METHOD BLANK	✓		
CALIBRATION CURVE	✓		
IF NO,			
INITIAL CALIBRATION	✓		
IF NO,			
CONTINUING CALIBRATION	✓		
IF NO,			
MATRIX SPIKE RECOVERIES	✓		
COMMENTS			
DUP RECOVERIES	✓		
LCS RECOVERIES			✓
CALCULATION CHECK	✓		
ADDITIONAL COMMENTS			

SIGNATURE _____ DATE 3 31 09

REVIEWED BY _____ DATE 3/31/09

Analytical Report For 903125

for

CH2M Hill Inc

Project Manager: Emma Brower

Project Name: CTO-059 386383.FI.FQ.FQ

GPL

Laboratories

GPL Laboratories, LLLP certifies that the test results meet all requirements of the NELAC Standards unless otherwise noted.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Seventeen water samples were received on 03/19/2009. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Volatiles

Seventeen water samples were analyzed for volatile organic compounds by the SW846 method SW8260B.
The samples were analyzed within the holding time.

Several samples were diluted to fit the results within the instrument calibration.
All surrogate recoveries and internal standard responses were within the QC limits.

Four laboratory control samples and one laboratory control sample duplicate were analyzed along with the sample batches. BKS108942 had two spike recoveries outside of the QC limits. BKS108944 had four spike recoveries outside of the QC limits. For BKS/BKSD108945, all of the RPDs were within the RPD QC limits, and all of the spike recoveries were within the QC limits. BKS108946 had all of the spike recoveries within the QC limits.

Manual integration was performed on some compounds that were improperly integrated by the software. The manually integrated compounds are designated by an "m" next to the area of the quantitation report and the chromatograms were submitted with the package.

IC Analysis

Fifteen water samples were analyzed for Chloride, Nitrite as Nitrogen, and Nitrate as Nitrogen by EPA method 300.0

Matrix spike and duplicate analyses were performed on samples OU1-52GW50-0309 and OU1-52GW51-0309. Due to matrix interference, percent recovery of Nitrite as Nitrogen was above the QC limits in both samples. Since Nitrite as Nitrogen was not recovered in any client samples and recovery for Nitrite as Nitrogen was within the QC limits in the laboratory control sample, no corrective action was taken. All other QC criteria were met.

A laboratory control sample was analyzed along with the batch. All QC criteria were met.

In CCVH3 and CCVH4 (run on 3/18/09), percent recovery for Nitrate as Nitrogen is slightly above the QC limits. Since Nitrate as Nitrogen was not reported from the high curve, no corrective action was taken. All other QC criteria were met.

General Chemistry

Fifteen water samples were analyzed for Sulfide using EPA method 376.1. Duplicate analysis was performed on sample OU1-52GW50-0309. All QC criteria were met.

Fifteen water samples were analyzed for Total Organic Carbon using EPA method 9060A. Samples were run in quadruplicate thus no duplicate analysis was performed. Matrix spike analysis was performed on samples OU1-52GW60-0309 and OU1-52GW41-

0309. All QC criteria were met.

Other Analysis

Fifteen water samples were analyzed for Dissolved Gaseous Organics, by Headspace Gas Chromatography Analysis, using the U.S. EPA modified method RSK175.

The samples were analyzed within the holding time.

Several samples exhibited methane recoveries above the calibation range. The samples were reanalyzed at dilutions.

The matrix spike and matrix spike duplicate analyses were performed on sample OU1-52GW45-0309. All spike recoveries outside of the QC limits. All %RPDs were within the RPD limits.

Reviewed By,

Project Manager

Approved By,

Laboratory Director

Sample Summary Report

CH2M Hill Inc

Work Order: 903125

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
OU1-52GW34-0309	903125-014-040-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-014-111-1/2	GPL-RSK-175			
	903125-014-068-1/1	E300			
	903125-014-083-1/1	E376.1			
	903125-014-128-1/1	SW9060			
OU1-52GW34-0309DL	903125-014-112-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
OU1-52GW35-0309	903125-012-107-1/2	GPL-RSK-175	WATER	03/17/2009	03/19/2009
	903125-012-066-1/1	E300			
	903125-012-081-1/1	E376.1			
	903125-012-126-1/1	SW9060			
OU1-52GW35-0309DL	903125-012-108-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
	903125-012-108-2/2DL	SW8260LL			
OU1-52GW36-0309	903125-008-022-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-008-099-1/2	GPL-RSK-175			
	903125-008-062-1/1	E300			
	903125-008-077-1/1	E376.1			
	903125-008-122-1/1	SW9060			
OU1-52GW37-0309	903125-006-095-1/2	GPL-RSK-175	WATER	03/17/2009	03/19/2009
	903125-006-060-1/1	E300			
	903125-006-075-1/1	E376.1			
	903125-006-120-1/1	SW9060			
OU1-52GW37-0309DL	903125-006-096-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
	903125-006-096-2/2DL	SW8260LL			
OU1-52GW40-0309	903125-003-007-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-003-089-1/2	GPL-RSK-175			
	903125-003-057-1/1	E300			
	903125-003-072-1/1	E376.1			
	903125-003-117-1/1	SW9060			
OU1-52GW40-0309DL	903125-003-090-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
OU1-52GW41-0309	903125-007-019-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-007-097-1/2	GPL-RSK-175			
	903125-007-061-1/1	E300			

Sample Summary Report

CH2M Hill Inc

Work Order: 903125

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
	903125-007-076-1/1	E376.1			
	903125-007-121-1/1	SW9060			
OU1-52GW41-0309DL	903125-007-098-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
OU1-52GW41P-0309	903125-015-043-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-015-113-1/2	GPL-RSK-175			
	903125-015-069-1/1	E300			
	903125-015-084-1/1	E376.1			
	903125-015-129-1/1	SW9060			
OU1-52GW41P-0309DL	903125-015-114-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
OU1-52GW45-0309	903125-010-103-1/2	GPL-RSK-175	WATER	03/17/2009	03/19/2009
	903125-010-130-1/2	SW8260LL			
	903125-010-064-1/1	E300			
	903125-010-079-1/1	E376.1			
	903125-010-124-1/1	SW9060			
OU1-52GW50-0309	903125-001-001-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-001-085-1/2	GPL-RSK-175			
	903125-001-055-1/1	E300			
	903125-001-070-1/1	E376.1			
	903125-001-115-1/1	SW9060			
OU1-52GW50-0309DL	903125-001-086-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
OU1-52GW51-0309	903125-002-087-1/2	GPL-RSK-175	WATER	03/17/2009	03/19/2009
	903125-002-056-1/1	E300			
	903125-002-071-1/1	E376.1			
	903125-002-116-1/1	SW9060			
OU1-52GW51-0309DL	903125-002-088-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
	903125-002-088-2/2DL	SW8260LL			
OU1-52GW52-0309	903125-009-025-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-009-101-1/2	GPL-RSK-175			
	903125-009-063-1/1	E300			
	903125-009-078-1/1	E376.1			
	903125-009-123-1/1	SW9060			

Sample Summary Report

CH2M Hill Inc

Work Order: 903125

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
OU1-52GW53-0309	903125-013-037-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-013-109-1/2	GPL-RSK-175			
	903125-013-067-1/1	E300			
	903125-013-082-1/1	E376.1			
	903125-013-127-1/1	SW9060			
OU1-52GW53-0309DL	903125-013-110-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
	903125-013-110-2/2DL	SW8260LL			
OU1-52GW60-0309	903125-011-031-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-011-105-1/2	GPL-RSK-175			
	903125-011-065-1/1	E300			
	903125-011-080-1/1	E376.1			
	903125-011-125-1/1	SW9060			
OU1-52GW60-0309DL	903125-011-106-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
OU1-52GW69-0309	903125-004-010-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-004-091-1/2	GPL-RSK-175			
	903125-004-058-1/1	E300			
	903125-004-073-1/1	E376.1			
	903125-004-118-1/1	SW9060			
OU1-52GW69-0309DL	903125-004-092-2/2DL	GPL-RSK-175	WATER	03/17/2009	03/19/2009
OU1-52GW70-0309	903125-005-013-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
	903125-005-093-1/2	GPL-RSK-175			
	903125-005-059-1/1	E300			
	903125-005-074-1/1	E376.1			
	903125-005-119-1/1	SW9060			
OU1-52GW70-0309DL	903125-005-014-2/3DL	SW8260LL	WATER	03/17/2009	03/19/2009
OU1-TB11-0309	903125-016-046-1/3	SW8260LL	WATER	03/17/2009	03/19/2009
OU1-TB12-0309	903125-017-049-1/3	SW8260LL	WATER	03/17/2009	03/19/2009

QC SUMMARY PACKAGE

GPL Laboratories

VOLATILE ORGANICS

GPL Laboratories

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108942

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108942
Sample Volume :	5	Lab File ID :	A62636.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	48	
71-55-6	1,1,1-Trichloroethane	60	
79-34-5	1,1,2,2-Tetrachloroethane	45	
79-00-5	1,1,2-Trichloroethane	49	
75-34-3	1,1-Dichloroethane	57	
75-35-4	1,1-Dichloroethene	55	
563-58-6	1,1-Dichloropropene	51	
87-61-6	1,2,3-Trichlorobenzene	55	
96-18-4	1,2,3-Trichloropropane	44	
120-82-1	1,2,4-Trichlorobenzene	56	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	42	
95-50-1	1,2-Dichlorobenzene	58	
107-06-2	1,2-Dichloroethane	50	
78-87-5	1,2-Dichloropropane	43	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	57	
142-28-9	1,3-Dichloropropane	46	
106-46-7	1,4-Dichlorobenzene	57	
594-20-7	2,2-Dichloropropane	54	
78-93-3	2-Butanone	91	
95-49-8	2-Chlorotoluene	56	
591-78-6	2-Hexanone	71	
106-43-4	4-Chlorotoluene	54	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	71	
67-64-1	Acetone	120	
71-43-2	Benzene	44	
108-86-1	Bromobenzene	56	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108942

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108942
Sample Volume :	5	Lab File ID :	A62636.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	59	
75-27-4	Bromodichloromethane	45	
75-25-2	Bromoform	45	
74-83-9	Bromomethane	75	
75-15-0	Carbon Disulfide	49	
56-23-5	Carbon Tetrachloride	59	
108-90-7	Chlorobenzene	52	
75-00-3	Chloroethane	51	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	62	
110-82-7	Cyclohexane	54	
124-48-1	Dibromochloromethane	51	
74-95-3	Dibromomethane	47	
75-71-8	Dichlorodifluoromethane	46	
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	48	
76-13-1	Freon 113	65	
87-68-3	Hexachlorobutadiene	54	
98-82-8	Isopropylbenzene	54	
79-20-9	Methyl Acetate	53	
108-87-2	Methylcyclohexane	53	
75-09-2	Methylene Chloride	52	
91-20-3	Naphthalene	49	
135-98-8	Sec-Butylbenzene	54	
100-42-5	Styrene	53	
127-18-4	Tetrachloroethylene	57	
108-88-3	Toluene	55	
79-01-6	Trichloroethene	47	
75-69-4	Trichlorofluoromethane	80	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108942

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108942
Sample Volume :	5	Lab File ID :	A62636.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	36	
75-01-4	Vinyl Chloride	52	
156-59-2	cis-1,2-Dichloroethene	54	
10061-01-5	cis-1,3-Dichloropropene	40	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	53	
103-65-1	n-Propylbenzene	54	
95-47-6	o-Xylene	52	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	53	
156-60-5	trans-1,2-dichloroethene	56	
10061-02-6	trans-1,3-dichloropropene	46	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108944

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108944
Sample Volume :	5	Lab File ID :	A62668.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	48	
71-55-6	1,1,1-Trichloroethane	61	
79-34-5	1,1,2,2-Tetrachloroethane	49	
79-00-5	1,1,2-Trichloroethane	52	
75-34-3	1,1-Dichloroethane	58	
75-35-4	1,1-Dichloroethene	53	
563-58-6	1,1-Dichloropropene	49	
87-61-6	1,2,3-Trichlorobenzene	59	
96-18-4	1,2,3-Trichloropropane	54	
120-82-1	1,2,4-Trichlorobenzene	58	
95-63-6	1,2,4-Trimethylbenzene	54	
96-12-8	1,2-Dibromo-3-Chloropropane	50	
95-50-1	1,2-Dichlorobenzene	59	
107-06-2	1,2-Dichloroethane	54	
78-87-5	1,2-Dichloropropane	44	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	59	
142-28-9	1,3-Dichloropropane	48	
106-46-7	1,4-Dichlorobenzene	58	
594-20-7	2,2-Dichloropropane	49	
78-93-3	2-Butanone	110	
95-49-8	2-Chlorotoluene	56	
591-78-6	2-Hexanone	85	
106-43-4	4-Chlorotoluene	55	
99-87-6	4-Isopropyltoluene	59	
108-10-1	4-Methyl-2-Pentanone	84	
67-64-1	Acetone	140	
71-43-2	Benzene	44	
108-86-1	Bromobenzene	58	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108944

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108944
Sample Volume :	5	Lab File ID :	A62668.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	60	
75-27-4	Bromodichloromethane	46	
75-25-2	Bromoform	48	
74-83-9	Bromomethane	74	
75-15-0	Carbon Disulfide	43	
56-23-5	Carbon Tetrachloride	55	
108-90-7	Chlorobenzene	52	
75-00-3	Chloroethane	48	
67-66-3	Chloroform	54	
74-87-3	Chloromethane	56	
110-82-7	Cyclohexane	49	
124-48-1	Dibromochloromethane	52	
74-95-3	Dibromomethane	51	
75-71-8	Dichlorodifluoromethane	31	
100-41-4	Ethylbenzene	50	
106-93-4	Ethylene DiBromide	52	
76-13-1	Freon 113	64	
87-68-3	Hexachlorobutadiene	54	
98-82-8	Isopropylbenzene	54	
79-20-9	Methyl Acetate	71	
108-87-2	Methylcyclohexane	50	
75-09-2	Methylene Chloride	54	
91-20-3	Naphthalene	57	
135-98-8	Sec-Butylbenzene	55	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	80	
108-88-3	Toluene	52	
79-01-6	Trichloroethene	47	
75-69-4	Trichlorofluoromethane	74	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108944

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108944
Sample Volume :	5	Lab File ID :	A62668.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	32	
75-01-4	Vinyl Chloride	44	
156-59-2	cis-1,2-Dichloroethene	55	
10061-01-5	cis-1,3-Dichloropropene	40	
136777-61-2	m,p-Xylene	100	
104-51-8	n-Butylbenzene	53	
103-65-1	n-Propylbenzene	53	
95-47-6	o-Xylene	52	
98-06-6	tert-Butylbenzene	56	
1634-04-4	tert-butyl methyl ether	58	
156-60-5	trans-1,2-dichloroethene	55	
10061-02-6	trans-1,3-dichloropropene	45	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108945
Sample Volume :	5	Lab File ID :	A62762.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	57	
71-55-6	1,1,1-Trichloroethane	53	
79-34-5	1,1,2,2-Tetrachloroethane	54	
79-00-5	1,1,2-Trichloroethane	53	
75-34-3	1,1-Dichloroethane	58	
75-35-4	1,1-Dichloroethene	54	
563-58-6	1,1-Dichloropropene	49	
87-61-6	1,2,3-Trichlorobenzene	55	
96-18-4	1,2,3-Trichloropropane	54	
120-82-1	1,2,4-Trichlorobenzene	54	
95-63-6	1,2,4-Trimethylbenzene	53	
96-12-8	1,2-Dibromo-3-Chloropropane	53	
95-50-1	1,2-Dichlorobenzene	52	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	53	
108-67-8	1,3,5-trimethylbenzene	54	
541-73-1	1,3-Dichlorobenzene	54	
142-28-9	1,3-Dichloropropane	54	
106-46-7	1,4-Dichlorobenzene	53	
594-20-7	2,2-Dichloropropane	52	
78-93-3	2-Butanone	94	
95-49-8	2-Chlorotoluene	55	
591-78-6	2-Hexanone	100	
106-43-4	4-Chlorotoluene	53	
99-87-6	4-Isopropyltoluene	57	
108-10-1	4-Methyl-2-Pentanone	110	
67-64-1	Acetone	73	
71-43-2	Benzene	52	
108-86-1	Bromobenzene	56	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108945
Sample Volume :	5	Lab File ID :	A62762.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	52	
75-27-4	Bromodichloromethane	53	
75-25-2	Bromoform	53	
74-83-9	Bromomethane	63	
75-15-0	Carbon Disulfide	49	
56-23-5	Carbon Tetrachloride	55	
108-90-7	Chlorobenzene	55	
75-00-3	Chloroethane	51	
67-66-3	Chloroform	52	
74-87-3	Chloromethane	52	
110-82-7	Cyclohexane	49	
124-48-1	Dibromochloromethane	52	
74-95-3	Dibromomethane	50	
75-71-8	Dichlorodifluoromethane	47	
100-41-4	Ethylbenzene	54	
106-93-4	Ethylene DiBromide	55	
76-13-1	Freon 113	53	
87-68-3	Hexachlorobutadiene	53	
98-82-8	Isopropylbenzene	54	
79-20-9	Methyl Acetate	56	
108-87-2	Methylcyclohexane	57	
75-09-2	Methylene Chloride	52	
91-20-3	Naphthalene	56	
135-98-8	Sec-Butylbenzene	54	
100-42-5	Styrene	56	
127-18-4	Tetrachloroethylene	73	
108-88-3	Toluene	52	
79-01-6	Trichloroethene	55	
75-69-4	Trichlorofluoromethane	49	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108945
Sample Volume :	5	Lab File ID :	A62762.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	23	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	54	
10061-01-5	cis-1,3-Dichloropropene	53	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	54	
103-65-1	n-Propylbenzene	54	
95-47-6	o-Xylene	55	
98-06-6	tert-Butylbenzene	50	
1634-04-4	tert-butyl methyl ether	55	
156-60-5	trans-1,2-dichloroethene	54	
10061-02-6	trans-1,3-dichloropropene	54	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108946

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108946
Sample Volume :	5	Lab File ID :	A62772.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	47	
71-55-6	1,1,1-Trichloroethane	46	
79-34-5	1,1,2,2-Tetrachloroethane	48	
79-00-5	1,1,2-Trichloroethane	48	
75-34-3	1,1-Dichloroethane	48	
75-35-4	1,1-Dichloroethene	44	
563-58-6	1,1-Dichloropropene	43	
87-61-6	1,2,3-Trichlorobenzene	49	
96-18-4	1,2,3-Trichloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	46	
95-63-6	1,2,4-Trimethylbenzene	46	
96-12-8	1,2-Dibromo-3-Chloropropane	48	
95-50-1	1,2-Dichlorobenzene	45	
107-06-2	1,2-Dichloroethane	45	
78-87-5	1,2-Dichloropropane	45	
108-67-8	1,3,5-trimethylbenzene	45	
541-73-1	1,3-Dichlorobenzene	45	
142-28-9	1,3-Dichloropropane	49	
106-46-7	1,4-Dichlorobenzene	45	
594-20-7	2,2-Dichloropropane	46	
78-93-3	2-Butanone	88	
95-49-8	2-Chlorotoluene	46	
591-78-6	2-Hexanone	96	
106-43-4	4-Chlorotoluene	45	
99-87-6	4-Isopropyltoluene	48	
108-10-1	4-Methyl-2-Pentanone	100	
67-64-1	Acetone	68	
71-43-2	Benzene	45	
108-86-1	Bromobenzene	46	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108946

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108946
Sample Volume :	5	Lab File ID :	A62772.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	44	
75-27-4	Bromodichloromethane	46	
75-25-2	Bromoform	50	
74-83-9	Bromomethane	47	
75-15-0	Carbon Disulfide	42	
56-23-5	Carbon Tetrachloride	45	
108-90-7	Chlorobenzene	46	
75-00-3	Chloroethane	46	
67-66-3	Chloroform	43	
74-87-3	Chloromethane	43	
110-82-7	Cyclohexane	43	
124-48-1	Dibromochloromethane	50	
74-95-3	Dibromomethane	46	
75-71-8	Dichlorodifluoromethane	44	
100-41-4	Ethylbenzene	45	
106-93-4	Ethylene DiBromide	49	
76-13-1	Freon 113	46	
87-68-3	Hexachlorobutadiene	44	
98-82-8	Isopropylbenzene	46	
79-20-9	Methyl Acetate	48	
108-87-2	Methylcyclohexane	46	
75-09-2	Methylene Chloride	44	
91-20-3	Naphthalene	50	
135-98-8	Sec-Butylbenzene	46	
100-42-5	Styrene	48	
127-18-4	Tetrachloroethylene	47	
108-88-3	Toluene	45	
79-01-6	Trichloroethene	43	
75-69-4	Trichlorofluoromethane	44	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKS108946

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKS108946
Sample Volume :	5	Lab File ID :	A62772.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	22	
75-01-4	Vinyl Chloride	43	
156-59-2	cis-1,2-Dichloroethene	44	
10061-01-5	cis-1,3-Dichloropropene	47	
136777-61-2	m,p-Xylene	93	
104-51-8	n-Butylbenzene	46	
103-65-1	n-Propylbenzene	46	
95-47-6	o-Xylene	46	
98-06-6	tert-Butylbenzene	42	
1634-04-4	tert-butyl methyl ether	49	
156-60-5	trans-1,2-dichloroethene	43	
10061-02-6	trans-1,3-dichloropropene	51	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108945
Sample Volume :	5	Lab File ID :	A62763.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	52	
71-55-6	1,1,1-Trichloroethane	51	
79-34-5	1,1,2,2-Tetrachloroethane	54	
79-00-5	1,1,2-Trichloroethane	55	
75-34-3	1,1-Dichloroethane	54	
75-35-4	1,1-Dichloroethene	49	
563-58-6	1,1-Dichloropropene	47	
87-61-6	1,2,3-Trichlorobenzene	57	
96-18-4	1,2,3-Trichloropropane	55	
120-82-1	1,2,4-Trichlorobenzene	52	
95-63-6	1,2,4-Trimethylbenzene	52	
96-12-8	1,2-Dibromo-3-Chloropropane	55	
95-50-1	1,2-Dichlorobenzene	52	
107-06-2	1,2-Dichloroethane	51	
78-87-5	1,2-Dichloropropane	54	
108-67-8	1,3,5-trimethylbenzene	51	
541-73-1	1,3-Dichlorobenzene	52	
142-28-9	1,3-Dichloropropane	54	
106-46-7	1,4-Dichlorobenzene	52	
594-20-7	2,2-Dichloropropane	47	
78-93-3	2-Butanone	99	
95-49-8	2-Chlorotoluene	54	
591-78-6	2-Hexanone	110	
106-43-4	4-Chlorotoluene	52	
99-87-6	4-Isopropyltoluene	54	
108-10-1	4-Methyl-2-Pentanone	110	
67-64-1	Acetone	75	
71-43-2	Benzene	52	
108-86-1	Bromobenzene	52	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108945
Sample Volume :	5	Lab File ID :	A62763.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	51	
75-27-4	Bromodichloromethane	52	
75-25-2	Bromoform	55	
74-83-9	Bromomethane	58	
75-15-0	Carbon Disulfide	46	
56-23-5	Carbon Tetrachloride	51	
108-90-7	Chlorobenzene	53	
75-00-3	Chloroethane	50	
67-66-3	Chloroform	50	
74-87-3	Chloromethane	51	
110-82-7	Cyclohexane	46	
124-48-1	Dibromochloromethane	53	
74-95-3	Dibromomethane	51	
75-71-8	Dichlorodifluoromethane	49	
100-41-4	Ethylbenzene	51	
106-93-4	Ethylene DiBromide	54	
76-13-1	Freon 113	49	
87-68-3	Hexachlorobutadiene	51	
98-82-8	Isopropylbenzene	52	
79-20-9	Methyl Acetate	56	
108-87-2	Methylcyclohexane	54	
75-09-2	Methylene Chloride	50	
91-20-3	Naphthalene	58	
135-98-8	Sec-Butylbenzene	51	
100-42-5	Styrene	54	
127-18-4	Tetrachloroethylene	74	
108-88-3	Toluene	51	
79-01-6	Trichloroethene	53	
75-69-4	Trichlorofluoromethane	47	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BKSD108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BKSD108945
Sample Volume :	5	Lab File ID :	A62763.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	22	
75-01-4	Vinyl Chloride	47	
156-59-2	cis-1,2-Dichloroethene	51	
10061-01-5	cis-1,3-Dichloropropene	52	
136777-61-2	m,p-Xylene	110	
104-51-8	n-Butylbenzene	52	
103-65-1	n-Propylbenzene	51	
95-47-6	o-Xylene	53	
98-06-6	tert-Butylbenzene	47	
1634-04-4	tert-butyl methyl ether	57	
156-60-5	trans-1,2-dichloroethene	51	
10061-02-6	trans-1,3-dichloropropene	55	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108942

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108942
Sample Volume :	5	Lab File ID :	A62638.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108942

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108942
Sample Volume :	5	Lab File ID :	A62638.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108942

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108942
Sample Volume :	5	Lab File ID :	A62638.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108944

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108944
Sample Volume :	5	Lab File ID :	A62670.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108944

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108944
Sample Volume :	5	Lab File ID :	A62670.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108944

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108944
Sample Volume :	5	Lab File ID :	A62670.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108945
Sample Volume :	5	Lab File ID :	A62755.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108945
Sample Volume :	5	Lab File ID :	A62755.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108945
Sample Volume :	5	Lab File ID :	A62755.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK108946

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108946
Sample Volume :	5	Lab File ID :	A62773.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108946

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108946
Sample Volume :	5	Lab File ID :	A62773.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108946

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108946
Sample Volume :	5	Lab File ID :	A62773.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-014-040-1/3
Sample Volume :	5	Lab File ID :	A62692.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-014-040-1/3
Sample Volume :	5	Lab File ID :	A62692.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	110	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-014-040-1/3
Sample Volume :	5	Lab File ID :	A62692.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	24	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW35-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-012-034-1/3
Sample Volume :	.1	Lab File ID :	A62688.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
563-58-6	1,1-Dichloropropene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
96-12-8	1,2-Dibromo-3-Chloropropane	100	U
95-50-1	1,2-Dichlorobenzene	50	U
107-06-2	1,2-Dichloroethane	50	U
78-87-5	1,2-Dichloropropane	50	U
108-67-8	1,3,5-trimethylbenzene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
142-28-9	1,3-Dichloropropane	50	U
106-46-7	1,4-Dichlorobenzene	50	U
594-20-7	2,2-Dichloropropane	50	U
78-93-3	2-Butanone	250	U
95-49-8	2-Chlorotoluene	50	U
591-78-6	2-Hexanone	250	U
106-43-4	4-Chlorotoluene	50	U
99-87-6	4-Isopropyltoluene	50	U
108-10-1	4-Methyl-2-Pentanone	250	U
67-64-1	Acetone	250	U
71-43-2	Benzene	50	U
108-86-1	Bromobenzene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW35-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-012-034-1/3
Sample Volume :	.1	Lab File ID :	A62688.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	50	U
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
75-15-0	Carbon Disulfide	50	U
56-23-5	Carbon Tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
110-82-7	Cyclohexane	50	U
124-48-1	Dibromochloromethane	50	U
74-95-3	Dibromomethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
100-41-4	Ethylbenzene	50	U
106-93-4	Ethylene DiBromide	50	U
76-13-1	Freon 113	50	U
87-68-3	Hexachlorobutadiene	50	U
98-82-8	Isopropylbenzene	50	U
79-20-9	Methyl Acetate	50	U
108-87-2	Methylcyclohexane	50	U
75-09-2	Methylene Chloride	170	
91-20-3	Naphthalene	50	U
135-98-8	Sec-Butylbenzene	50	U
100-42-5	Styrene	50	U
127-18-4	Tetrachloroethylene	50	U
108-88-3	Toluene	50	U
79-01-6	Trichloroethene	540	
75-69-4	Trichlorofluoromethane	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW35-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-012-034-1/3
Sample Volume :	.1	Lab File ID :	A62688.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	50	U
75-01-4	Vinyl Chloride	50	U
156-59-2	cis-1,2-Dichloroethene	560	
10061-01-5	cis-1,3-Dichloropropene	50	U
136777-61-2	m,p-Xylene	50	U
104-51-8	n-Butylbenzene	50	U
103-65-1	n-Propylbenzene	50	U
95-47-6	o-Xylene	50	U
98-06-6	tert-Butylbenzene	50	U
1634-04-4	tert-butyl methyl ether	50	U
156-60-5	trans-1,2-dichloroethene	50	U
10061-02-6	trans-1,3-dichloropropene	50	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW36-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-008-022-1/3
Sample Volume :	5	Lab File ID :	A62680.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW36-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-008-022-1/3
Sample Volume :	5	Lab File ID :	A62680.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW36-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-008-022-1/3
Sample Volume :	5	Lab File ID :	A62680.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-006-016-1/3
Sample Volume :	.1	Lab File ID :	A62676.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
563-58-6	1,1-Dichloropropene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
96-12-8	1,2-Dibromo-3-Chloropropane	100	U
95-50-1	1,2-Dichlorobenzene	50	U
107-06-2	1,2-Dichloroethane	50	U
78-87-5	1,2-Dichloropropane	50	U
108-67-8	1,3,5-trimethylbenzene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
142-28-9	1,3-Dichloropropane	50	U
106-46-7	1,4-Dichlorobenzene	50	U
594-20-7	2,2-Dichloropropane	50	U
78-93-3	2-Butanone	250	U
95-49-8	2-Chlorotoluene	50	U
591-78-6	2-Hexanone	250	U
106-43-4	4-Chlorotoluene	50	U
99-87-6	4-Isopropyltoluene	50	U
108-10-1	4-Methyl-2-Pentanone	250	U
67-64-1	Acetone	250	U
71-43-2	Benzene	50	U
108-86-1	Bromobenzene	50	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-006-016-1/3
Sample Volume :	.1	Lab File ID :	A62676.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	50	U
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
75-15-0	Carbon Disulfide	50	U
56-23-5	Carbon Tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
110-82-7	Cyclohexane	50	U
124-48-1	Dibromochloromethane	50	U
74-95-3	Dibromomethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
100-41-4	Ethylbenzene	50	U
106-93-4	Ethylene DiBromide	50	U
76-13-1	Freon 113	50	U
87-68-3	Hexachlorobutadiene	50	U
98-82-8	Isopropylbenzene	50	U
79-20-9	Methyl Acetate	50	U
108-87-2	Methylcyclohexane	50	U
75-09-2	Methylene Chloride	160	
91-20-3	Naphthalene	50	U
135-98-8	Sec-Butylbenzene	50	U
100-42-5	Styrene	50	U
127-18-4	Tetrachloroethylene	50	U
108-88-3	Toluene	50	U
79-01-6	Trichloroethene	950	
75-69-4	Trichlorofluoromethane	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-006-016-1/3
Sample Volume :	.1	Lab File ID :	A62676.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	50	U
75-01-4	Vinyl Chloride	50	U
156-59-2	cis-1,2-Dichloroethene	200	
10061-01-5	cis-1,3-Dichloropropene	50	U
136777-61-2	m,p-Xylene	50	U
104-51-8	n-Butylbenzene	50	U
103-65-1	n-Propylbenzene	50	U
95-47-6	o-Xylene	50	U
98-06-6	tert-Butylbenzene	50	U
1634-04-4	tert-butyl methyl ether	50	U
156-60-5	trans-1,2-dichloroethene	50	U
10061-02-6	trans-1,3-dichloropropene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-003-007-1/3
Sample Volume :	5	Lab File ID :	A62660.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-003-007-1/3
Sample Volume :	5	Lab File ID :	A62660.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	2.6	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-003-007-1/3
Sample Volume :	5	Lab File ID :	A62660.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	3.1	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-007-019-1/3
Sample Volume :	5	Lab File ID :	A62678.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.1	
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-007-019-1/3
Sample Volume :	5	Lab File ID :	A62678.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.7	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	18	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-007-019-1/3
Sample Volume :	5	Lab File ID :	A62678.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	4.2	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-015-043-1/3
Sample Volume :	5	Lab File ID :	A62758.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	0.84	J
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	2.1	J
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-015-043-1/3
Sample Volume :	5	Lab File ID :	A62758.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	2.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	19	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-015-043-1/3
Sample Volume :	5	Lab File ID :	A62758.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	3.8	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW45-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-010-130-1/2
Sample Volume :	5	Lab File ID :	A62684.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW45-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-010-130-1/2
Sample Volume :	5	Lab File ID :	A62684.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW45-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-010-130-1/2
Sample Volume :	5	Lab File ID :	A62684.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-001-1/3
Sample Volume :	5	Lab File ID :	A62656.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-001-1/3
Sample Volume :	5	Lab File ID :	A62656.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	0.95	J
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-001-1/3
Sample Volume :	5	Lab File ID :	A62656.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.3	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-004-1/3
Sample Volume :	.1	Lab File ID :	A62658.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
563-58-6	1,1-Dichloropropene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
96-12-8	1,2-Dibromo-3-Chloropropane	100	U
95-50-1	1,2-Dichlorobenzene	50	U
107-06-2	1,2-Dichloroethane	50	U
78-87-5	1,2-Dichloropropane	50	U
108-67-8	1,3,5-trimethylbenzene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
142-28-9	1,3-Dichloropropane	50	U
106-46-7	1,4-Dichlorobenzene	50	U
594-20-7	2,2-Dichloropropane	50	U
78-93-3	2-Butanone	250	U
95-49-8	2-Chlorotoluene	50	U
591-78-6	2-Hexanone	250	U
106-43-4	4-Chlorotoluene	50	U
99-87-6	4-Isopropyltoluene	50	U
108-10-1	4-Methyl-2-Pentanone	250	U
67-64-1	Acetone	250	U
71-43-2	Benzene	50	U
108-86-1	Bromobenzene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-004-1/3
Sample Volume :	.1	Lab File ID :	A62658.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	50	U
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
75-15-0	Carbon Disulfide	50	U
56-23-5	Carbon Tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
110-82-7	Cyclohexane	50	U
124-48-1	Dibromochloromethane	50	U
74-95-3	Dibromomethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
100-41-4	Ethylbenzene	50	U
106-93-4	Ethylene DiBromide	50	U
76-13-1	Freon 113	50	U
87-68-3	Hexachlorobutadiene	50	U
98-82-8	Isopropylbenzene	50	U
79-20-9	Methyl Acetate	50	U
108-87-2	Methylcyclohexane	50	U
75-09-2	Methylene Chloride	170	
91-20-3	Naphthalene	50	U
135-98-8	Sec-Butylbenzene	50	U
100-42-5	Styrene	50	U
127-18-4	Tetrachloroethylene	50	U
108-88-3	Toluene	50	U
79-01-6	Trichloroethene	1800	
75-69-4	Trichlorofluoromethane	50	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-004-1/3
Sample Volume :	.1	Lab File ID :	A62658.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	50	U
75-01-4	Vinyl Chloride	50	U
156-59-2	cis-1,2-Dichloroethene	250	
10061-01-5	cis-1,3-Dichloropropene	50	U
136777-61-2	m,p-Xylene	50	U
104-51-8	n-Butylbenzene	50	U
103-65-1	n-Propylbenzene	50	U
95-47-6	o-Xylene	50	U
98-06-6	tert-Butylbenzene	50	U
1634-04-4	tert-butyl methyl ether	50	U
156-60-5	trans-1,2-dichloroethene	50	U
10061-02-6	trans-1,3-dichloropropene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW52-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-009-025-1/3
Sample Volume :	5	Lab File ID :	A62682.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW52-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-009-025-1/3
Sample Volume :	5	Lab File ID :	A62682.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	8.1	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW52-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-009-025-1/3
Sample Volume :	5	Lab File ID :	A62682.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-013-037-1/3
Sample Volume :	5	Lab File ID :	A62764.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	3.8	
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-013-037-1/3
Sample Volume :	5	Lab File ID :	A62764.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	2.0	
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	2.0	
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	10	
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	12000	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-013-037-1/3
Sample Volume :	5	Lab File ID :	A62764.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	21	
156-59-2	cis-1,2-Dichloroethene	870	E
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	3.7	
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	0.75	J
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	3.6	
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-013-038-2/3
Sample Volume :	.02	Lab File ID :	A62779.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	250
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	250	U
71-55-6	1,1,1-Trichloroethane	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
75-34-3	1,1-Dichloroethane	250	U
75-35-4	1,1-Dichloroethene	250	U
563-58-6	1,1-Dichloropropene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
96-12-8	1,2-Dibromo-3-Chloropropane	500	U
95-50-1	1,2-Dichlorobenzene	250	U
107-06-2	1,2-Dichloroethane	250	U
78-87-5	1,2-Dichloropropane	250	U
108-67-8	1,3,5-trimethylbenzene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
142-28-9	1,3-Dichloropropane	250	U
106-46-7	1,4-Dichlorobenzene	250	U
594-20-7	2,2-Dichloropropane	250	U
78-93-3	2-Butanone	1300	U
95-49-8	2-Chlorotoluene	250	U
591-78-6	2-Hexanone	1300	U
106-43-4	4-Chlorotoluene	250	U
99-87-6	4-Isopropyltoluene	250	U
108-10-1	4-Methyl-2-Pentanone	1300	U
67-64-1	Acetone	1300	U
71-43-2	Benzene	250	U
108-86-1	Bromobenzene	250	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-013-038-2/3
Sample Volume :	.02	Lab File ID :	A62779.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	250
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	250	U
75-15-0	Carbon Disulfide	250	U
56-23-5	Carbon Tetrachloride	250	U
108-90-7	Chlorobenzene	250	U
75-00-3	Chloroethane	250	U
67-66-3	Chloroform	250	U
74-87-3	Chloromethane	250	U
110-82-7	Cyclohexane	250	U
124-48-1	Dibromochloromethane	250	U
74-95-3	Dibromomethane	250	U
75-71-8	Dichlorodifluoromethane	250	U
100-41-4	Ethylbenzene	250	U
106-93-4	Ethylene DiBromide	250	U
76-13-1	Freon 113	250	U
87-68-3	Hexachlorobutadiene	250	U
98-82-8	Isopropylbenzene	250	U
79-20-9	Methyl Acetate	250	U
108-87-2	Methylcyclohexane	250	U
75-09-2	Methylene Chloride	250	U
91-20-3	Naphthalene	250	U
135-98-8	Sec-Butylbenzene	250	U
100-42-5	Styrene	250	U
127-18-4	Tetrachloroethylene	250	U
108-88-3	Toluene	250	U
79-01-6	Trichloroethene	9700	
75-69-4	Trichlorofluoromethane	250	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-013-038-2/3
Sample Volume :	.02	Lab File ID :	A62779.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	250
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	250	U
75-01-4	Vinyl Chloride	250	U
156-59-2	cis-1,2-Dichloroethene	600	
10061-01-5	cis-1,3-Dichloropropene	250	U
136777-61-2	m,p-Xylene	250	U
104-51-8	n-Butylbenzene	250	U
103-65-1	n-Propylbenzene	250	U
95-47-6	o-Xylene	250	U
98-06-6	tert-Butylbenzene	250	U
1634-04-4	tert-butyl methyl ether	250	U
156-60-5	trans-1,2-dichloroethene	250	U
10061-02-6	trans-1,3-dichloropropene	250	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW60-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-011-031-1/3
Sample Volume :	5	Lab File ID :	A62686.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW60-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-011-031-1/3
Sample Volume :	5	Lab File ID :	A62686.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW60-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-011-031-1/3
Sample Volume :	5	Lab File ID :	A62686.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.3	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-004-010-1/3
Sample Volume :	5	Lab File ID :	A62672.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-004-010-1/3
Sample Volume :	5	Lab File ID :	A62672.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-004-010-1/3
Sample Volume :	5	Lab File ID :	A62672.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-013-1/3
Sample Volume :	5	Lab File ID :	A62674.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-013-1/3
Sample Volume :	5	Lab File ID :	A62674.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	460	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-013-1/3
Sample Volume :	5	Lab File ID :	A62674.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.4	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-014-2/3
Sample Volume :	.5	Lab File ID :	A62765.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-014-2/3
Sample Volume :	.5	Lab File ID :	A62765.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	10	U
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	10	U
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	380	
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-014-2/3
Sample Volume :	.5	Lab File ID :	A62765.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-016-046-1/3
Sample Volume :	5	Lab File ID :	A62759.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-016-046-1/3
Sample Volume :	5	Lab File ID :	A62759.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB11-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-016-046-1/3
Sample Volume :	5	Lab File ID :	A62759.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-017-049-1/3
Sample Volume :	5	Lab File ID :	A62760.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-017-049-1/3
Sample Volume :	5	Lab File ID :	A62760.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-TB12-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-017-049-1/3
Sample Volume :	5	Lab File ID :	A62760.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903125**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108942	104	99	100	118
BLK108942	96	94	102	111
OU1-52GW40-0309	98	96	99	107
OU1-52GW50-0309	97	93	95	109
OU1-52GW51-0309DL	96	93	95	110

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903125**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108944	102	99	103	122
BLK108944	96	94	100	108
OU1-52GW34-0309	94	94	97	108
OU1-52GW35-0309DL	98	96	98	116
OU1-52GW36-0309	96	95	96	103
OU1-52GW37-0309DL	93	94	95	108
OU1-52GW41-0309	93	94	96	106
OU1-52GW45-0309	98	93	96	111
OU1-52GW52-0309	95	94	100	106
OU1-52GW60-0309	96	95	102	109
OU1-52GW69-0309	95	95	98	110
OU1-52GW70-0309	97	95	101	114

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903125**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108945	101	97	100	100
BKSD108945	103	99	99	102
BLK108945	103	94	98	96
OU1-52GW41P-0309	103	96	96	99
OU1-52GW53-0309	101	95	100	93
OU1-52GW70-0309DL	102	95	97	98
OU1-TB11-0309	99	95	99	95
OU1-TB12-0309	102	95	101	96

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER **Analytical Method : SW8260LL** **SDG No : 903125**

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	**75**	**85**	**70**	**64**
Upper QC Limits	**120**	**120**	**120**	**132**
Sample ID				
BKS108946	103	100	100	101
BLK108946	101	96	97	96
OU1-52GW53-0309DL	101	97	94	95

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108942

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108942
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	48	96	80-130
1,1,1-Trichloroethane	50	0	60	120	65-130
1,1,2,2-Tetrachloroethane	50	0	45	90	65-130
1,1,2-Trichloroethane	50	0	49	98	75-125
1,1-Dichloroethane	50	0	57	114	70-135
1,1-Dichloroethene	50	0	55	110	70-130
1,1-Dichloropropene	50	0	51	102	75-130
1,2,3-Trichlorobenzene	50	0	55	110	55-140
1,2,3-Trichloropropane	50	0	44	88	75-125
1,2,4-Trichlorobenzene	50	0	56	112	65-135
1,2,4-Trimethylbenzene	50	0	54	108	75-130
1,2-Dibromo-3-Chloropropane	50	0	42	84	50-130
1,2-Dichlorobenzene	50	0	58	116	70-120
1,2-Dichloroethane	50	0	50	100	70-130
1,2-Dichloropropane	50	0	43	86	75-125
1,3,5-trimethylbenzene	50	0	54	108	75-130
1,3-Dichlorobenzene	50	0	57	114	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	57	114	75-125
2,2-Dichloropropane	50	0	54	108	70-135
2-Butanone	100	0	91	91	30-150
2-Chlorotoluene	50	0	56	112	75-125
2-Hexanone	100	0	71	71	55-130
4-Chlorotoluene	50	0	54	108	75-130
4-Isopropyltoluene	50	0	59	118	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108942

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108942
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	71	71	60-135
Acetone	100	0	120	120	40-140
Benzene	50	0	44	88	80-120
Bromobenzene	50	0	56	112	75-125
Bromochloromethane	50	0	59	118	65-130
Bromodichloromethane	50	0	45	90	75-120
Bromoform	50	0	45	90	70-130
Bromomethane	50	0	75	150 *	30-145
Carbon Disulfide	50	0	49	98	35-160
Carbon Tetrachloride	50	0	59	118	65-140
Chlorobenzene	50	0	52	104	80-120
Chloroethane	50	0	51	102	60-135
Chloroform	50	0	54	108	65-135
Chloromethane	50	0	62	124	40-125
Cyclohexane	50	0	54	108	50-120
Dibromochloromethane	50	0	51	102	60-135
Dibromomethane	50	0	47	94	75-125
Dichlorodifluoromethane	50	0	46	92	30-155
Ethylbenzene	50	0	50	100	75-125
Ethylene DiBromide	50	0	48	96	80-120
Freon 113	50	0	65	130	70-130
Hexachlorobutadiene	50	0	54	108	50-140
Isopropylbenzene	50	0	54	108	75-125
Methyl Acetate	50	0	53	106	50-120
Methylcyclohexane	50	0	53	106	50-120

* Values Outside of QC Limits.

Spike recovery : 1 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108942

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108942
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	52	104	55-140
Naphthalene	50	0	49	98	55-140
Sec-Butylbenzene	50	0	54	108	70-125
Styrene	50	0	53	106	65-135
Tetrachloroethylene	50	0	57	114	45-150
Toluene	50	0	55	110	75-120
Trichloroethene	50	0	47	94	70-125
Trichlorofluoromethane	50	0	80	160 *	60-145
Vinyl Acetate	50	0	36	72	41-139
Vinyl Chloride	50	0	52	104	50-145
cis-1,2-Dichloroethene	50	0	54	108	70-125
cis-1,3-Dichloropropene	50	0	40	80	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	53	106	70-135
n-Propylbenzene	50	0	54	108	70-130
o-Xylene	50	0	52	104	80-120
tert-Butylbenzene	50	0	56	112	70-130
tert-butyl methyl ether	50	0	53	106	65-125
trans-1,2-dichloroethene	50	0	56	112	60-140
trans-1,3-dichloropropene	50	0	46	92	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108944

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108944
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	48	96	80-130
1,1,1-Trichloroethane	50	0	61	122	65-130
1,1,2,2-Tetrachloroethane	50	0	49	98	65-130
1,1,2-Trichloroethane	50	0	52	104	75-125
1,1-Dichloroethane	50	0	58	116	70-135
1,1-Dichloroethene	50	0	53	106	70-130
1,1-Dichloropropene	50	0	49	98	75-130
1,2,3-Trichlorobenzene	50	0	59	118	55-140
1,2,3-Trichloropropane	50	0	54	108	75-125
1,2,4-Trichlorobenzene	50	0	58	116	65-135
1,2,4-Trimethylbenzene	50	0	54	108	75-130
1,2-Dibromo-3-Chloropropane	50	0	50	100	50-130
1,2-Dichlorobenzene	50	0	59	118	70-120
1,2-Dichloroethane	50	0	54	108	70-130
1,2-Dichloropropane	50	0	44	88	75-125
1,3,5-trimethylbenzene	50	0	54	108	75-130
1,3-Dichlorobenzene	50	0	59	118	75-125
1,3-Dichloropropane	50	0	48	96	75-125
1,4-Dichlorobenzene	50	0	58	116	75-125
2,2-Dichloropropane	50	0	49	98	70-135
2-Butanone	100	0	110	110	30-150
2-Chlorotoluene	50	0	56	112	75-125
2-Hexanone	100	0	85	85	55-130
4-Chlorotoluene	50	0	55	110	75-130
4-Isopropyltoluene	50	0	59	118	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108944

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108944
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	84	84	60-135
Acetone	100	0	140	140	40-140
Benzene	50	0	44	88	80-120
Bromobenzene	50	0	58	116	75-125
Bromochloromethane	50	0	60	120	65-130
Bromodichloromethane	50	0	46	92	75-120
Bromoform	50	0	48	96	70-130
Bromomethane	50	0	74	148 *	30-145
Carbon Disulfide	50	0	43	86	35-160
Carbon Tetrachloride	50	0	55	110	65-140
Chlorobenzene	50	0	52	104	80-120
Chloroethane	50	0	48	96	60-135
Chloroform	50	0	54	108	65-135
Chloromethane	50	0	56	112	40-125
Cyclohexane	50	0	49	98	50-120
Dibromochloromethane	50	0	52	104	60-135
Dibromomethane	50	0	51	102	75-125
Dichlorodifluoromethane	50	0	31	62	30-155
Ethylbenzene	50	0	50	100	75-125
Ethylene DiBromide	50	0	52	104	80-120
Freon 113	50	0	64	128	70-130
Hexachlorobutadiene	50	0	54	108	50-140
Isopropylbenzene	50	0	54	108	75-125
Methyl Acetate	50	0	71	142 *	50-120
Methylcyclohexane	50	0	50	100	50-120

* Values Outside of QC Limits.

Spike recovery : 2 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108944

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108944
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	54	108	55-140
Naphthalene	50	0	57	114	55-140
Sec-Butylbenzene	50	0	55	110	70-125
Styrene	50	0	54	108	65-135
Tetrachloroethylene	50	0	80	160 *	45-150
Toluene	50	0	52	104	75-120
Trichloroethene	50	0	47	94	70-125
Trichlorofluoromethane	50	0	74	148 *	60-145
Vinyl Acetate	50	0	32	64	41-139
Vinyl Chloride	50	0	44	88	50-145
cis-1,2-Dichloroethene	50	0	55	110	70-125
cis-1,3-Dichloropropene	50	0	40	80	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	53	106	70-135
n-Propylbenzene	50	0	53	106	70-130
o-Xylene	50	0	52	104	80-120
tert-Butylbenzene	50	0	56	112	70-130
tert-butyl methyl ether	50	0	58	116	65-125
trans-1,2-dichloroethene	50	0	55	110	60-140
trans-1,3-dichloropropene	50	0	45	90	55-140

* Values Outside of QC Limits.

Spike recovery : 2 out of 20 outside limits

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108945

Lab Name : GPL Laboratories SDG NO : 903125 Method : SW8260LL

Lab Code : GPL Lab Sample ID : BKSD108945 Matrix : WATER Analysis Date : 03/31/2009

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	QC Limits
1,1,1,2-Tetrachloroethane	50	0.0	57	52	114	104	9	25	80-130
1,1,1-Trichloroethane	50	0.0	53	51	106	102	4	25	65-130
1,1,2,2-Tetrachloroethane	50	0.0	54	54	108	108	0	25	65-130
1,1,2-Trichloroethane	50	0.0	53	55	106	110	4	25	75-125
1,1-Dichloroethane	50	0.0	58	54	116	108	7	25	70-135
1,1-Dichloroethene	50	0.0	54	49	108	98	10	25	70-130
1,1-Dichloropropene	50	0.0	49	47	98	94	4	25	75-130
1,2,3-Trichlorobenzene	50	0.0	55	57	110	114	4	25	55-140
1,2,3-Trichloropropane	50	0.0	54	55	108	110	2	25	75-125
1,2,4-Trichlorobenzene	50	0.0	54	52	108	104	4	25	65-135
1,2,4-Trimethylbenzene	50	0.0	53	52	106	104	2	25	75-130
1,2-Dibromo-3-Chloropropane	50	0.0	53	55	106	110	4	25	50-130
1,2-Dichlorobenzene	50	0.0	53	52	104	104	0	25	70-120
1,2-Dichloroethane	50	0.0	51	51	102	102	0	25	70-130
1,2-Dichloropropane	50	0.0	53	54	106	108	2	25	75-125
1,3,5-trimethylbenzene	50	0.0	54	51	108	102	6	25	75-130
1,3-Dichlorobenzene	50	0.0	54	52	108	104	4	25	75-125
1,3-Dichloropropane	50	0.0	54	54	108	108	0	25	75-125

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 0 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108945

Lab Name : GPL Laboratories SDG NO : 903125

Lab Code : GPL Lab Sample ID : BKSD108945

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
1,4-Dichlorobenzene	50	0.0	53	52	106	104	2	25	75-125
2,2-Dichloropropane	50	0.0	52	47	104	94	10	25	70-135
2-Butanone	100	0.0	95	99	94	99	5	25	30-150
2-Chlorotoluene	50	0.0	55	54	110	108	2	25	75-125
2-Hexanone	100	0.0	110	110	100	110	10	25	55-130
4-Chlorotoluene	50	0.0	53	52	106	104	2	25	75-130
4-Isopropyltoluene	50	0.0	57	54	114	108	5	25	75-130
4-Methyl-2-Pentanone	100	0.0	110	120	110	110	0	25	60-135
Acetone	100	0.0	73	75	73	75	3	25	40-140
Benzene	50	0.0	53	52	104	104	0	25	80-120
Bromobenzene	50	0.0	56	52	112	104	7	25	75-125
Bromochloromethane	50	0.0	52	51	104	102	2	25	65-130
Bromodichloromethane	50	0.0	53	52	106	104	2	25	75-120
Bromoform	50	0.0	53	55	106	110	4	25	70-130
Bromomethane	50	0.0	63	58	126	116	8	25	30-145
Carbon Disulfide	50	0.0	49	46	98	92	6	25	35-160
Carbon Tetrachloride	50	0.0	55	51	110	102	8	25	65-140
Chlorobenzene	50	0.0	55	53	110	106	4	25	80-120

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 0 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108945

Lab Name : GPL Laboratories SDG NO : 903125

Lab Code : GPL Lab Sample ID : BKSD108945

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Chloroethane	50	0.0	51	51	102	100	2	25	60-135
Chloroform	50	0.0	52	50	104	100	4	25	65-135
Chloromethane	50	0.0	52	51	104	102	2	25	40-125
Cyclohexane	50	0.0	49	46	98	92	6	25	50-120
Dibromochloromethane	50	0.0	53	53	104	106	2	25	60-135
Dibromomethane	50	0.0	50	51	100	102	2	25	75-125
Dichlorodifluoromethane	50	0.0	47	49	94	98	4	25	30-155
Ethylbenzene	50	0.0	54	51	108	102	6	25	75-125
Ethylene DiBromide	50	0.0	55	54	110	108	2	25	80-120
Freon 113	50	0.0	53	49	106	98	8	25	70-130
Hexachlorobutadiene	50	0.0	53	51	106	102	4	25	50-140
Isopropylbenzene	50	0.0	54	52	108	104	4	25	75-125
Methyl Acetate	50	0.0	56	56	112	112	0	25	50-120
Methylcyclohexane	50	0.0	57	54	114	108	5	25	50-120
Methylene Chloride	50	0.0	52	50	104	100	4	25	55-140
Naphthalene	50	0.0	56	58	112	116	4	25	55-140
Sec-Butylbenzene	50	0.0	54	52	108	102	6	25	70-125
Styrene	50	0.0	56	54	112	108	4	25	65-135

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 0 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108945

Lab Name : GPL Laboratories SDG NO : 903125

Lab Code : GPL Lab Sample ID : BKSD108945

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Tetrachloroethylene	50	0.0	73	74	146	148	1	25	45-150
Toluene	50	0.0	53	51	104	102	2	25	75-120
Trichloroethene	50	0.0	55	53	110	106	4	25	70-125
Trichlorofluoromethane	50	0.0	49	47	98	94	4	25	60-145
Vinyl Acetate	50	0.0	23	23	46	44	4	25	41-139
Vinyl Chloride	50	0.0	47	47	94	94	0	25	50-145
cis-1,2-Dichloroethene	50	0.0	54	51	108	102	6	25	70-125
cis-1,3-Dichloropropene	50	0.0	53	52	106	104	2	25	70-130
m,p-Xylene	100	0.0	110	110	110	110	0	25	75-130
n-Butylbenzene	50	0.0	54	52	108	104	4	25	70-135
n-Propylbenzene	50	0.0	54	51	108	102	6	25	70-130
o-Xylene	50	0.0	55	53	110	106	4	25	80-120
tert-Butylbenzene	50	0.0	50	47	100	94	6	25	70-130
tert-butyl methyl ether	50	0.0	55	57	110	114	4	25	65-125
trans-1,2-dichloroethene	50	0.0	54	52	108	102	6	25	60-140
trans-1,3-dichloropropene	50	0.0	55	55	108	110	2	25	55-140

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 0 Out of 140 outside limit

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108946

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108946
Analysis Date : 04/01/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	47	94	80-130
1,1,1-Trichloroethane	50	0	46	92	65-130
1,1,2,2-Tetrachloroethane	50	0	48	96	65-130
1,1,2-Trichloroethane	50	0	48	96	75-125
1,1-Dichloroethane	50	0	48	96	70-135
1,1-Dichloroethene	50	0	44	88	70-130
1,1-Dichloropropene	50	0	43	86	75-130
1,2,3-Trichlorobenzene	50	0	49	98	55-140
1,2,3-Trichloropropane	50	0	48	96	75-125
1,2,4-Trichlorobenzene	50	0	46	92	65-135
1,2,4-Trimethylbenzene	50	0	46	92	75-130
1,2-Dibromo-3-Chloropropane	50	0	48	96	50-130
1,2-Dichlorobenzene	50	0	45	90	70-120
1,2-Dichloroethane	50	0	45	90	70-130
1,2-Dichloropropane	50	0	45	90	75-125
1,3,5-trimethylbenzene	50	0	45	90	75-130
1,3-Dichlorobenzene	50	0	45	90	75-125
1,3-Dichloropropane	50	0	49	98	75-125
1,4-Dichlorobenzene	50	0	45	90	75-125
2,2-Dichloropropane	50	0	46	92	70-135
2-Butanone	100	0	88	88	30-150
2-Chlorotoluene	50	0	46	92	75-125
2-Hexanone	100	0	96	96	55-130
4-Chlorotoluene	50	0	45	90	75-130
4-Isopropyltoluene	50	0	48	96	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108946

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108946
Analysis Date : 04/01/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	100	100	60-135
Acetone	100	0	68	68	40-140
Benzene	50	0	45	90	80-120
Bromobenzene	50	0	46	92	75-125
Bromochloromethane	50	0	44	88	65-130
Bromodichloromethane	50	0	46	92	75-120
Bromoform	50	0	50	100	70-130
Bromomethane	50	0	47	94	30-145
Carbon Disulfide	50	0	42	84	35-160
Carbon Tetrachloride	50	0	45	90	65-140
Chlorobenzene	50	0	46	92	80-120
Chloroethane	50	0	46	92	60-135
Chloroform	50	0	43	86	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	43	86	50-120
Dibromochloromethane	50	0	50	100	60-135
Dibromomethane	50	0	46	92	75-125
Dichlorodifluoromethane	50	0	44	88	30-155
Ethylbenzene	50	0	45	90	75-125
Ethylene DiBromide	50	0	49	98	80-120
Freon 113	50	0	46	92	70-130
Hexachlorobutadiene	50	0	44	88	50-140
Isopropylbenzene	50	0	46	92	75-125
Methyl Acetate	50	0	48	96	50-120
Methylcyclohexane	50	0	46	92	50-120

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108946

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108946
Analysis Date : 04/01/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	44	88	55-140
Naphthalene	50	0	50	100	55-140
Sec-Butylbenzene	50	0	46	92	70-125
Styrene	50	0	48	96	65-135
Tetrachloroethylene	50	0	47	94	45-150
Toluene	50	0	45	90	75-120
Trichloroethene	50	0	43	86	70-125
Trichlorofluoromethane	50	0	44	88	60-145
Vinyl Acetate	50	0	22	44	41-139
Vinyl Chloride	50	0	43	86	50-145
cis-1,2-Dichloroethene	50	0	44	88	70-125
cis-1,3-Dichloropropene	50	0	47	94	70-130
m,p-Xylene	100	0	93	93	75-130
n-Butylbenzene	50	0	46	92	70-135
n-Propylbenzene	50	0	46	92	70-130
o-Xylene	50	0	46	92	80-120
tert-Butylbenzene	50	0	42	84	70-130
tert-butyl methyl ether	50	0	49	98	65-125
trans-1,2-dichloroethene	50	0	43	86	60-140
trans-1,3-dichloropropene	50	0	51	102	55-140

* Values Outside of QC Limits.

Spike recovery : 0 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108942

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	A62638.D	SDG NO :	903125
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108942
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:46

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108942	BKS108942	A62636.D	11:06
OU1-52GW40-0309	903125-003-007-1/3	A62660.D	19:35
OU1-52GW50-0309	903125-001-001-1/3	A62656.D	18:14
OU1-52GW51-0309DL	903125-002-004-1/3	A62658.D	18:55

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108944

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	A62670.D	SDG NO :	903125
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108944
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	22:59

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108944	BKS108944	A62668.D	22:18
OU1-52GW34-0309	903125-014-040-1/3	A62692.D	06:26
OU1-52GW35-0309DL	903125-012-034-1/3	A62688.D	05:05
OU1-52GW36-0309	903125-008-022-1/3	A62680.D	02:23
OU1-52GW37-0309DL	903125-006-016-1/3	A62676.D	01:01
OU1-52GW41-0309	903125-007-019-1/3	A62678.D	01:42
OU1-52GW45-0309	903125-010-130-1/2	A62684.D	03:43
OU1-52GW52-0309	903125-009-025-1/3	A62682.D	03:03
OU1-52GW60-0309	903125-011-031-1/3	A62686.D	04:24
OU1-52GW69-0309	903125-004-010-1/3	A62672.D	23:39
OU1-52GW70-0309	903125-005-013-1/3	A62674.D	00:21

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	A62755.D	SDG NO :	903125
Date Analyzed	03/31/2009	Lab Sample ID :	BLK108945
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	15:08

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108945	BKS108945	A62762.D	18:52
BKSD108945	BKSD108945	A62763.D	19:24
OU1-52GW41P-0309	903125-015-043-1/3	A62758.D	16:44
OU1-52GW53-0309	903125-013-037-1/3	A62764.D	19:55
OU1-52GW70-0309DL	903125-005-014-2/3	A62765.D	20:27
OU1-TB11-0309	903125-016-046-1/3	A62759.D	17:16
OU1-TB12-0309	903125-017-049-1/3	A62760.D	17:48

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108946

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	A62773.D	SDG NO :	903125
Date Analyzed	04/01/2009	Lab Sample ID :	BLK108946
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	09:14

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108946	BKS108946	A62772.D	08:42
OU1-52GW53-0309DL	903125-013-038-2/3	A62779.D	12:26

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62630.D BFB Injection Date : 03/27/2009 BFB Injection Time : 08:38

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.1	
75	30.0 - 60.0% of mass 95	50.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	1.6	(1.7)1
174	50.0 - 120.0% of mass 95	95.2	
175	5.0 - 9.0% of mass 174	8.2	(8.6)1
176	95.0 - 101.0% of mass 174	94.1	(98.8)1
177	5.0 - 9.0% of mass 176	6.4	(6.8)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62634.D	03/27/2009	10:25
2	BKS108942	BKS108942	A62636.D	03/27/2009	11:06
3	BLK108942	BLK108942	A62638.D	03/27/2009	11:46
4	OU1-52GW50-0309	903125-001-001-1/3	A62656.D	03/27/2009	18:14
5	OU1-52GW51-0309DL	903125-002-004-1/3	A62658.D	03/27/2009	18:55
6	OU1-52GW40-0309	903125-003-007-1/3	A62660.D	03/27/2009	19:35

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62664.D BFB Injection Date : 03/27/2009 BFB Injection Time : 20:56

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	23.3	
75	30.0 - 60.0% of mass 95	52.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	1.7	(1.8)1
174	50.0 - 120.0% of mass 95	93.5	
175	5.0 - 9.0% of mass 174	8.2	(8.8)1
176	95.0 - 101.0% of mass 174	91.0	(97.4)1
177	5.0 - 9.0% of mass 176	5.7	(6.3)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62666.D	03/27/2009	21:37
2	BKS108944	BKS108944	A62668.D	03/27/2009	22:18
3	BLK108944	BLK108944	A62670.D	03/27/2009	22:59
4	OU1-52GW69-0309	903125-004-010-1/3	A62672.D	03/27/2009	23:39
5	OU1-52GW70-0309	903125-005-013-1/3	A62674.D	03/28/2009	00:21
6	OU1-52GW37-0309DL	903125-006-016-1/3	A62676.D	03/28/2009	01:01
7	OU1-52GW41-0309	903125-007-019-1/3	A62678.D	03/28/2009	01:42
8	OU1-52GW36-0309	903125-008-022-1/3	A62680.D	03/28/2009	02:23
9	OU1-52GW52-0309	903125-009-025-1/3	A62682.D	03/28/2009	03:03
10	OU1-52GW45-0309	903125-010-130-1/2	A62684.D	03/28/2009	03:43
11	OU1-52GW60-0309	903125-011-031-1/3	A62686.D	03/28/2009	04:24
12	OU1-52GW35-0309DL	903125-012-034-1/3	A62688.D	03/28/2009	05:05
13	OU1-52GW34-0309	903125-014-040-1/3	A62692.D	03/28/2009	06:26

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62739.D BFB Injection Date : 03/31/2009 BFB Injection Time : 08:26

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.9	
75	30.0 - 60.0% of mass 95	52.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.2	
173	Less than 2.0% of mass 174	1.7	(1.8)1
174	50.0 - 120.0% of mass 95	96.0	
175	5.0 - 9.0% of mass 174	8.0	(8.4)1
176	95.0 - 101.0% of mass 174	94.0	(98.0)1
177	5.0 - 9.0% of mass 176	6.0	(6.4)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL50	CAL50	A62746.D	03/31/2009	11:19
2	BLK108945	BLK108945	A62755.D	03/31/2009	15:08
3	OU1-52GW41P-0309	903125-015-043-1/3	A62758.D	03/31/2009	16:44
4	OU1-TB11-0309	903125-016-046-1/3	A62759.D	03/31/2009	17:16
5	OU1-TB12-0309	903125-017-049-1/3	A62760.D	03/31/2009	17:48
6	BKS108945	BKS108945	A62762.D	03/31/2009	18:52
7	BKSD108945	BKSD108945	A62763.D	03/31/2009	19:24
8	OU1-52GW53-0309	903125-013-037-1/3	A62764.D	03/31/2009	19:55
9	OU1-52GW70-0309DL	903125-005-014-2/3	A62765.D	03/31/2009	20:27

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62770.D BFB Injection Date : 04/01/2009 BFB Injection Time : 07:38

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	53.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.4	
173	Less than 2.0% of mass 174	1.8	(2.1)1
174	50.0 - 120.0% of mass 95	89.6	
175	5.0 - 9.0% of mass 174	7.5	(8.4)1
176	95.0 - 101.0% of mass 174	89.5	(99.9)1
177	5.0 - 9.0% of mass 176	6.1	(6.8)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62771.D	04/01/2009	08:10
2	BKS108946	BKS108946	A62772.D	04/01/2009	08:42
3	BLK108946	BLK108946	A62773.D	04/01/2009	09:14
4	OU1-52GW53-0309DL	903125-013-038-2/3	A62779.D	04/01/2009	12:26

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62634.D Date Analyzed: 03/27/2009 Time Analyzed: 10:25

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	501933	04.69	502179	07.79	552639	04.56
UPPER LIMIT	1003866	05.19	1004358	08.29	1105278	05.06
LOWER LIMIT	250967	04.19	251090	07.29	276320	04.06
Client Sample						
BKS108942	468985	04.69	477046	07.78	520085	04.56
BLK108942	372311	04.69	358557	07.78	402942	04.56
OU1-52GW40-0309	415213	04.69	389461	07.78	455263	04.56
OU1-52GW50-0309	452397	04.69	425850	07.78	499311	04.56
OU1-52GW51-0309DL	451288	04.69	412129	07.78	487556	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzen

AREA UPPER LIMIT = +100% of internal standard ar
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL

Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62666.D Date Analyzed: 03/27/2009 Time Analyzed: 21:37

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	455744	04.69	470192	07.78	512290	04.56
UPPER LIMIT	911488	05.19	940384	08.28	1024580	05.06
LOWER LIMIT	227872	04.19	235096	07.28	256145	04.06
Client Sample						
BKS108944	473726	04.69	480177	07.78	532127	04.56
BLK108944	467813	04.69	434826	07.78	511339	04.57
OU1-52GW34-0309	412462	04.69	406102	07.78	445557	04.57
OU1-52GW35-0309DL	370537	04.69	352757	07.78	408589	04.56
OU1-52GW36-0309	431637	04.69	410962	07.78	466498	04.57
OU1-52GW37-0309DL	448524	04.69	422032	07.78	486270	04.57
OU1-52GW41-0309	430779	04.69	404979	07.78	449763	04.57
OU1-52GW45-0309	445669	04.69	409017	07.78	485244	04.57
OU1-52GW52-0309	434883	04.69	406295	07.78	462696	04.57
OU1-52GW60-0309	430438	04.69	406792	07.78	459268	04.56
OU1-52GW69-0309	448775	04.69	417994	07.78	484408	04.56
OU1-52GW70-0309	366965	04.68	342567	07.78	402875	04.56

14DFBZ = 1,4-Difluorobenzen

CLBZD5 = Chlorobenzene-d

FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +.50 minutes of internal standard RT

RT LOWER LIMIT = -.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asteris

* Values outside of contract required QC limits

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62746.D Date Analyzed: 03/31/2009 Time Analyzed: 11:19

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	365061	04.68	311437	07.78	409940	04.55
UPPER LIMIT	730122	05.18	622874	08.28	819880	05.05
LOWER LIMIT	182531	04.18	155719	07.28	204970	04.05
Client Sample						
BKS108945	384680	04.68	326504	07.78	422627	04.55
BKSD108945	388813	04.68	333363	07.78	434287	04.55
BLK108945	414080	04.68	326613	07.78	461264	04.56
OU1-52GW41P-0309	378595	04.68	301029	07.78	421994	04.56
OU1-52GW53-0309	411413	04.68	333217	07.78	453453	04.56
OU1-52GW70-0309DL	403708	04.68	322080	07.78	453613	04.55
OU1-TB11-0309	393147	04.68	323658	07.78	441468	04.55
OU1-TB12-0309	390853	04.68	307249	07.78	431101	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62771.D Date Analyzed: 04/01/2009 Time Analyzed: 08:10

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	434523	04.68	380821	07.78	487079	04.56
UPPER LIMIT	869046	05.18	761642	08.28	974158	05.06
LOWER LIMIT	217262	04.18	190411	07.28	243540	04.06
Client Sample						
BKS108946	448088	04.68	381315	07.78	500642	04.56
BLK108946	448805	04.68	365654	07.78	502837	04.55
OU1-52GW53-0309DL	383139	04.68	317499	07.78	434059	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: GPL LABORATORIES, LLC. Contract: _____

Lab Code: GPLL Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: A62206.D BFB Injection Date: 03/10/09

Instrument ID: HP#A BFB Injection Time: 07:55

GC Column: RTX_624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	51.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.1)1
174	50.0 - 120.0% of mass 95	78.5
175	4.0 - 9.0% of mass 174	5.9 (7.5)1
176	93.0 - 101.0% of mass 174	79.2 (100.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL01	CAL01	A62208.D	03/10/09	09:10
02	CAL05	CAL05	A62210.D	03/10/09	09:51
03	CAL20	CAL20	A62212.D	03/10/09	11:24
04	CAL50	CAL50	A62214.D	03/10/09	12:04
05	CAL100	CAL100	A62216.D	03/10/09	13:09
06	CAL200	CAL200	A62220.D	03/10/09	14:43
07	ICV50	BKS/ICV50	A62242.D	03/11/09	12:15

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260
Last Update : Thu Mar 12 13:55:43 2009
Response Via : Initial Calibration

Calibration Files
1 =A62208.D 5 =A62210.D 20 =A62212.D 50 =A62214.D 100 =A62216.D
200 =A62220.D

		Compound	1	5	20	50	100	200	Avg	%R SD
1)	I	Fluorobenzene	----------	ISTD	----------					
2)		Dichlorodifluo...	0.120	0.111	0.119	0.086	0.118	0.123	0.113	12.08
3)		Chloromethane	0.130	0.128	0.142	0.106	0.203		0.142	25.94
4)		Vinyl chloride	0.134	0.140	0.199	0.167	0.224	0.235	0.183	~~23.46~~
5)		Bromomethane	0.070	0.054	0.062	0.055	0.080		0.064	17.43
6)		Chloroethane	0.167	0.122	0.140	0.117	0.143	0.163	0.142	14.33
7)		Trichlorofluor...	0.169	0.246	0.270	0.217	0.296		0.239	20.54
8)		Ethyl Ether	0.184	0.185	0.175	0.149	0.191	0.230	0.186	14.22
9)		Freon 113	0.186	0.161	0.176	0.130	0.186	0.179	0.170	12.63
10)		Acrolein		0.055	0.035	0.030	0.038	0.058	0.043	~~28.85~~
11)		Tert-Butyl alc...	0.026	0.015	0.013	0.012	0.015	0.037	0.020	~~50.87~~
12)		1,1-Dichloroet...	0.203	0.187	0.176	0.140	0.189	0.208	0.184	13.36
13)		Iodomethane	0.081	0.109	0.177	0.181	0.257	0.182	0.164	37.82
14)		Acetonitrile	0.068	0.068	0.088	0.088	0.133	0.131	0.096	~~30.66~~
15)		Methylene chlo...	0.408	0.270	0.218	0.182	0.225	0.236	0.257	~~30.95~~
16)		Trans-1,2-dich...	0.232	0.181	0.191	0.166	0.217	0.212	0.200	12.32
17)		Isopropyl ether	0.850		0.767	0.665	0.845	0.895	0.805	11.26
18)		1,1-Dichloroet...	0.342	0.335	0.343	0.313	0.402	0.401	0.356	10.34
19)		Acetone	0.172	0.075	0.062	0.056	0.068	0.117	0.092	~~48.84~~
20)		Methyl Acetate	0.271	0.158	0.133	0.151	0.158	0.384	0.209	~~47.13~~
21)		MTBE	0.578	0.576	0.560	0.483	0.627	0.649	0.579	10.01
22)		Carbon disulfide	1.523	0.763	0.587	0.470	0.611	0.629	0.764	~~50.20~~
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile	0.103	0.070	0.061	0.054	0.067	0.097	0.075	~~26.82~~
25)		Chloroprene	0.379	0.349		0.270	0.372	0.333	0.341	12.75
26)	T	n-Heptane	0.233	0.164	0.181	0.154	0.163	0.148	0.174	17.86
27)		2,2-Dichloropr...	0.302	0.253	0.292	0.265	0.324	0.309	0.291	9.30
28)		Cis-1,2-dichlo...	0.289	0.221	0.221	0.207	0.248	0.241	0.238	12.28
29)		1,2-dichloroet...		0.211	0.214	0.190	0.235	0.236	0.217	8.87
30)		Propionitrile	0.043	0.032	0.027	0.027	0.030		0.032	20.48
31)		Bromochloromet...	0.120		0.106	0.105	0.120	0.128	0.115	8.57
32)		Tetrahydrofuran	0.064	0.054	0.051	0.050	0.056	0.082	0.059	20.48
33)		Chloroform	0.488	0.356	0.351	0.347	0.418	0.460	0.403	15.18
34)		Cyclohexane	0.624	0.344	0.365	0.320	0.372	0.360	0.398	~~28.35~~
35)		1,1,1-Trichlor...	0.302	0.283	0.291	0.299	0.329	0.339	0.307	7.22
36)		Carbon tetrach...	0.150	0.170	0.251	0.261	0.291	0.270	0.232	~~24.84~~
37)		Methylcyclohexane	0.373	0.314	0.345	0.327	0.363	0.328	0.342	6.72
38)		Isobutyl Alcohol	0.021	0.014	0.017	0.014	0.015	0.014	0.016	16.89
39)	SS	1,2-Dichloroet...	0.274	0.278	0.271	0.267	0.271	0.296	0.276	3.84
40)		1,4-Difluorobenzene	----------	ISTD	----------					
41)		2-Butanone	0.276	0.183	0.150	0.139	0.165	0.234	0.191	~~27.74~~
42)		1,1-Dichloropr...	0.318	0.297	0.314	0.325	0.352	0.348	0.326	6.44

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

43)		Vinyl Acetate	0.355	0.307		0.299	0.425	0.399	0.357	15.52
44)		Benzene	1.162	1.016	0.997	1.042	1.084	1.166	1.078	6.77
45)		1,2-Dichloroet...	0.321	0.321	0.325	0.338	0.359	0.378	0.340	6.86
46)		Trichloroethene	0.302	0.290	0.250	0.265	0.269	0.282	0.276	6.77
47)		1,2-Dichloropr...	0.271	0.259	0.255	0.291	0.292	0.314	0.280	8.00
48)		Methyl methacr...	0.306	0.199	0.189	0.198	0.197	0.239	0.221	~~30.32~~ r=0.99
49)		Dibromomethane	0.151	0.152	0.164	0.176	0.180	0.198	0.170	10.64
50)		Bromodichlorom...	0.384	0.294	0.339	0.371	0.375	0.400	0.361	10.59
51)		2-Chloroethylv...	0.166	0.177	0.173	0.188	0.198	0.226	0.188	11.62
52)		Cis-1,3-dichlo...	0.282	0.339		0.457	0.463	0.499	0.408	~~22.73~~ r=0.99
53)	SS	Toluene-d8	1.145	1.137	1.147	0.834	1.137	1.258	1.110	12.88
54)		Toluene	0.558	0.576	0.613	0.509	0.688		0.589	11.38
55)		Trans-1,3-dich...	0.300		0.366	0.310	0.411	0.476	0.372	19.64
56)		Ethyl methacry...	0.350	0.351	0.329	0.276		0.437	0.349	16.62
57)		1,1,2-Trichlor...	0.267	0.199	0.198	0.162	0.215		0.208	18.35
58)	I	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
59)		4-Methyl-2-pen...	0.448	0.306	0.309	0.325	0.335	0.376	0.350	15.51
60)		2-Hexanone	0.310	0.216	0.205	0.233	0.226	0.248	0.240	15.66
61)		Tetrachloroethene	0.213	0.252	0.268	0.281	0.295	0.277	0.264	11.02
62)		1,3-Dichloropr...	0.377	0.381	0.401	0.426	0.425	0.421	0.405	5.47
63)		Dibromochlorom...	0.220	0.243	0.272	0.303	0.315	0.315	0.278	14.36
64)		1,2-Dibromoethane	0.213	0.229	0.251	0.272	0.268	0.275	0.251	10.06
65)		1-Chlorohexane	0.529	0.403	0.371	0.396	0.400	0.392	0.415	13.76
66)		Chlorobenzene	0.727	0.736	0.798	0.865	0.892	0.909	0.821	9.61
67)		1,1,1,2-Tetrac...	0.206		0.283	0.330	0.345	0.362	0.305	~~20.59~~ r=0.99
68)		Ethylbenzene	1.250		1.301	1.441	1.467	1.554	1.403	8.89
69)		m,p-Xylene	0.497		0.533	0.593	0.610	0.662	0.579	11.23
70)		o-Xylene	0.464	0.535	0.537	0.607	0.623	0.660	0.571	12.59
71)		Xylene (Total)	0.486	0.528	0.536	0.601	0.614	0.670	0.573	11.81
72)		Styrene	0.844	0.875	0.906	1.015	1.024	1.094	0.959	10.27
73)		Bromoform	0.116	0.146	0.183	0.211	0.219	0.245	0.187	~~25.82~~ r=0.99
74)		Isopropylbenzene	1.112	1.127	1.193	1.321	1.373	1.484	1.268	11.70
75)	SS	4-Bromofluorob...	0.493	0.497	0.482	0.500	0.491	0.514	0.496	2.12
76)		Bromobenzene	0.331		0.329	0.375	0.368	0.409	0.362	9.18
77)		1,1,2,2-Tetrac...	0.409	0.350	0.353	0.390	0.391	0.432	0.387	8.21
78)		1,2,3-Trichlor...	0.110	0.118	0.106	0.114	0.114	0.132	0.116	7.90
79)		n-Propylbenzene	1.491	1.574	1.624	1.835	1.809	1.975	1.718	10.71
80)		Trans-1,4-dich...	0.090	0.091	0.100	0.116	0.119	0.143	0.110	18.56
81)		2-Chlorotoluene	0.318	0.344	0.342	0.399	0.389	0.419	0.368	10.71
82)		4-Chlorotoluene	0.338		0.369	0.414	0.404	0.433	0.392	9.73
83)		1,3,5-Trimethy...	1.052		1.205	1.397	1.408	1.590	1.331	15.55
84)		Tert-butylbenzene	0.951		1.060	1.235	1.263	1.433	1.188	15.76
85)		Pentachloroethane							0.000	-1.00
86)		1,2,4-Trimethy...	1.269		1.244	1.445	1.449	1.671	1.416	12.12
87)		Sec-Butylbenzene	1.559		1.670	1.913	1.912	2.147	1.840	12.53
88)		1,3-Dichlorobe...	0.718		0.695	0.816	0.814	0.982	0.805	14.06
89)		4-Isopropyltol...	1.343	1.326	1.420	1.664	1.697	2.024	1.579	17.07
90)		1,4-Dichlorobe...	0.716		0.720	0.833	0.822	0.928	0.804	11.04
91)	SS	1,2-Dichlorobe...	0.527	0.540	0.530	0.544	0.532	0.576	0.541	3.33
92)		1,2-Dichlorobe...	0.720		0.691	0.789	0.783	0.884	0.773	9.59
93)		n-Butylbenzene	1.464	1.337	1.352	1.543	1.549	1.732	1.496	9.82
94)		1,2-Dibromo-3-...	0.065	0.072	0.069	0.079	0.078	0.096	0.077	14.47
95)		1,2,4-Trichlor...	0.544		0.445	0.520	0.509	0.627	0.529	12.45
96)		Hexachlorobuta...	0.281		0.192	0.208	0.221	0.274	0.235	17.09

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C2_031009.M
Title : 8260

97)	Naphthalene	1.475	1.372	1.280	1.433	1.414	1.706	1.447	9.91
98)	1,2,3-Trichlor...	0.492		0.401	0.469	0.454	0.549	0.473	11.47

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	113	0.00
2		Dichlorodifluoromethane	0.113	0.094	16.8	122	0.01
3		Chloromethane	0.142	0.169	-19.0	180#	0.00
4		Vinyl chloride	0.183	0.205	-12.0	138	0.00
5		Bromomethane	0.064	0.102	-59.4#	210#	0.00
6		Chloroethane	0.142	0.138	2.8	133	0.00
7		Trichlorofluoromethane	0.239	0.357	-49.4#	185#	0.01
8		Ethyl Ether	0.186	0.185	0.5	140	0.00
9		Freon 113	0.170	0.208	-22.4	179#	0.00
10		Acrolein	0.043	0.033	23.3	121	0.00
11		Tert-Butyl alcohol	0.020	0.013	35.0#	129	0.00
12		1,1-Dichloroethene	0.184	0.205	-11.4	165#	0.00
13		Iodomethane	0.164	0.317	-93.3#	198#	0.00
14		Acetonitrile	0.096	0.163	-69.8#	208#	0.00
15		Methylene chloride	0.257	0.227	11.7	140	0.00
16		Trans-1,2-dichloroethene	0.200	0.220	-10.0	149	0.00
17		Isopropyl ether	0.805	0.806	-0.1	136	0.01
18		1,1-Dichloroethane	0.356	0.399	-12.1	143	0.00
19		Acetone	0.092	0.061	33.7#	122	0.00
20		Methyl Acetate	0.209	0.136	34.9#	101	0.00
21		MTBE	0.579	0.614	-6.0	143	0.00
22		Carbon disulfide	0.764	0.532	30.4#	127	0.01
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.061	18.7	127	0.00
25		Chloroprene	0.341	0.341	0.0	142	0.00
26	T	n-Heptane	0.174	0.008	95.4#	6#	0.12
27		2,2-Dichloropropane	0.291	0.310	-6.5	132	0.01
28		Cis-1,2-dichloroethene	0.238	0.254	-6.7	138	0.00
29		1,2-dichloroethene(total)	0.217	0.242	-11.5	144	0.00
30		Propionitrile	0.032	0.023	28.1#	97	0.00
31		Bromochloromethane	0.115	0.136	-18.3	146	0.00
32		Tetrahydrofuran	0.059	0.046	22.0	103	0.01
33		Chloroform	0.403	0.428	-6.2	139	0.00
34		Cyclohexane	0.398	0.369	7.3	130	0.00
35		1,1,1-Trichloroethane	0.307	0.359	-16.9	135	0.00
36		Carbon tetrachloride	0.232	0.317	-36.6#	137	0.00
37		Methylcyclohexane	0.342	0.348	-1.8	120	0.00
38		Isobutyl Alcohol	0.016	0.007	56.3#	54	-0.17

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.281	-1.8	118	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	124	0.00
41		2-Butanone	0.191	0.130	31.9#	116	0.00
42		1,1-Dichloropropene	0.326	0.318	2.5	121	0.00
43		Vinyl Acetate	0.357	0.251	29.7#	104	0.00
44		Benzene	1.078	0.938	13.0	112	0.00
45		1,2-Dichloroethane	0.340	0.336	1.2	123	0.00
46		Trichloroethene	0.276	0.249	9.8	116	0.00
47		1,2-Dichloropropane	0.280	0.228	18.6	97	0.00
48		Methyl methacrylate	0.221	0.151	31.7#	94	0.00
49		Dibromomethane	0.170	0.162	4.7	115	0.00
50		Bromodichloromethane	0.361	0.327	9.4	109	0.00
51		2-Chloroethylvinyl ether	0.188	0.152	19.1	100	0.00
52		Cis-1,3-dichloropropene	0.408	0.364	10.8	99	0.00
53	SS	Toluene-d8	1.110	1.077	3.0	160#	0.00
54		Toluene	0.589	0.609	-3.4	149	0.00
55		Trans-1,3-dichloropropene	0.372	0.319	14.2	128	0.00
56		Ethyl methacrylate	0.349	0.277	20.6	125	0.00
57		1,1,2-Trichloroethane	0.208	0.179	13.9	138	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	168#	0.00
59		4-Methyl-2-pentanone	0.350	0.253	27.7#	131	0.00
60		2-Hexanone	0.240	0.182	24.2	131	0.00
61		Tetrachloroethene	0.264	0.281	-6.4	168#	0.00
62		1,3-Dichloropropane	0.405	0.359	11.4	142	0.00
63		Dibromochloromethane	0.278	0.273	1.8	151#	0.01
64		1,2-Dibromoethane	0.251	0.233	7.2	144	0.00
65		1-Chlorohexane	0.415	0.361	13.0	153#	0.00
66		Chlorobenzene	0.821	0.829	-1.0	161#	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.318	-4.3	162#	0.00
68		Ethylbenzene	1.403	1.344	4.2	157#	0.00
69		m,p-Xylene	0.579	0.579	0.0	164#	0.00
70		o-Xylene	0.571	0.574	-0.5	159#	0.00
71		Xylene (Total)	0.573	0.579	-1.0	162#	0.00
72		Styrene	0.959	0.973	-1.5	161#	0.00
73		Bromoform	0.187	0.201	-7.5	160#	0.00
74		Isopropylbenzene	1.268	1.335	-5.3	170#	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62634.D
Acq On : 27 Mar 2009 10:25 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 31 10:33:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.507	-2.2	171#	0.00
76		Bromobenzene	0.362	0.389	-7.5	175#	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.355	8.3	153#	0.00
78		1,2,3-Trichloropropane	0.116	0.102	12.1	151#	0.00
79		n-Propylbenzene	1.718	1.747	-1.7	160#	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.106	3.6	154#	0.00
81		2-Chlorotoluene	0.368	0.394	-7.1	166#	0.00
82		4-Chlorotoluene	0.392	0.417	-6.4	169#	0.00
83		1,3,5-Trimethylbenzene	1.331	1.376	-3.4	166#	0.00
84		Tert-butylbenzene	1.188	1.262	-6.2	172#	0.00
85		Pentachloroethane	0.000	0.000	0.0	167#	0.00
86		1,2,4-Trimethylbenzene	1.416	1.493	-5.4	174#	0.00
87		Sec-Butylbenzene	1.840	1.910	-3.8	168#	0.00
88		1,3-Dichlorobenzene	0.805	0.899	-11.7	185#	0.00
89		4-Isopropyltoluene	1.579	1.793	-13.6	181#	0.00
90		1,4-Dichlorobenzene	0.804	0.896	-11.4	181#	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.613	-13.3	190#	0.00
92		1,2-Dichlorobenzene	0.773	0.871	-12.7	186#	0.00
93		n-Butylbenzene	1.496	1.528	-2.1	167#	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.069	10.4	146	0.00
95		1,2,4-Trichlorobenzene	0.529	0.567	-7.2	183#	0.00
96		Hexachlorobutadiene	0.235	0.235	0.0	191#	0.00
97		Naphthalene	1.447	1.418	2.0	167#	0.00
98		1,2,3-Trichlorobenzene	0.473	0.498	-5.3	179#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62666.D
Acq On : 27 Mar 2009 9:37 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Apr 01 14:57:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	104	0.00
2		Dichlorodifluoromethane	0.113	0.081	28.3#	98	0.01
3		Chloromethane	0.142	0.153	-7.7	151#	0.00
4		Vinyl chloride	0.183	0.194	-6.0	121	0.00
5		Bromomethane	0.064	0.088	-37.5#	168#	0.00
6		Chloroethane	0.142	0.130	8.5	116	0.00
7		Trichlorofluoromethane	0.239	0.355	-48.5#	170#	0.00
8		Ethyl Ether	0.186	0.196	-5.4	137	0.00
9		Freon 113	0.170	0.211	-24.1	169#	0.00
10		Acrolein	0.043	0.038	11.6	129	0.00
11		Tert-Butyl alcohol	0.020	0.015	25.0#	131	0.00
12		1,1-Dichloroethene	0.184	0.197	-7.1	147	0.00
13		Iodomethane	0.164	0.285	-73.8#	165#	0.00
14		Acetonitrile	0.096	0.154	-60.4#	182#	0.00
15		Methylene chloride	0.257	0.236	8.2	136	0.00
16		Trans-1,2-dichloroethene	0.200	0.216	-8.0	135	0.00
17		Isopropyl ether	0.805	0.821	-2.0	129	0.01
18		1,1-Dichloroethane	0.356	0.394	-10.7	131	0.00
19		Acetone	0.092	0.069	25.0	127	0.00
20		Methyl Acetate	0.209	0.173	17.2	119	0.00
21		MTBE	0.579	0.648	-11.9	140	0.00
22		Carbon disulfide	0.764	0.475	37.8#	105	0.00
23		Allyl Chloride	0.000	0.000	0.0	0#	0.00
24		Acrylonitrile	0.075	0.070	6.7	136	0.00
25		Chloroprene	0.341	0.353	-3.5	136	0.00
26	T	n-Heptane	0.174	0.007	96.0#	5#	0.11
27		2,2-Dichloropropane	0.291	0.289	0.7	114	0.00
28		Cis-1,2-dichloroethene	0.238	0.252	-5.9	127	0.00
29		1,2-dichloroethene(total)	0.217	0.239	-10.1	132	-0.82#
30		Propionitrile	0.032	0.030	6.3	116	0.00
31		Bromochloromethane	0.115	0.145	-26.1#	145	0.00
32		Tetrahydrofuran	0.059	0.050	15.3	103	0.01
33		Chloroform	0.403	0.440	-9.2	132	0.00
34		Cyclohexane	0.398	0.340	14.6	111	0.00
35		1,1,1-Trichloroethane	0.307	0.360	-17.3	125	0.00
36		Carbon tetrachloride	0.232	0.315	-35.8#	126	0.00
37		Methylcyclohexane	0.342	0.330	3.5	105	0.00
38		Isobutyl Alcohol	0.016	0.009	43.8#	64	-0.17

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62666.D
Acq On : 27 Mar 2009 9:37 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Apr 01 14:57:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	SS	1,2-Dichloroethane-d4	0.276	0.278	-0.7	109	0.00
40		1,4-Difluorobenzene	1.000	1.000	0.0	113	0.00
41		2-Butanone	0.191	0.149	22.0	120	0.00
42		1,1-Dichloropropene	0.326	0.310	4.9	107	0.00
43		Vinyl Acetate	0.357	0.267	25.2#	101	0.00
44		Benzene	1.078	0.959	11.0	104	0.00
45		1,2-Dichloroethane	0.340	0.343	-0.9	114	0.00
46		Trichloroethene	0.276	0.253	8.3	108	0.00
47		1,2-Dichloropropane	0.280	0.245	12.5	95	0.00
48		Methyl methacrylate	0.221	0.172	22.2	98	0.00
49		Dibromomethane	0.170	0.170	0.0	109	0.00
50		Bromodichloromethane	0.361	0.337	6.6	102	0.00
51		2-Chloroethylvinyl ether	0.188	0.161	14.4	96	0.00
52		Cis-1,3-dichloropropene	0.408	0.367	10.0	90	0.01
53	SS	Toluene-d8	1.110	1.120	-0.9	151#	0.00
54		Toluene	0.589	0.641	-8.8	142	0.00
55		Trans-1,3-dichloropropene	0.372	0.337	9.4	123	0.00
56		Ethyl methacrylate	0.349	0.319	8.6	130	0.00
57		1,1,2-Trichloroethane	0.208	0.200	3.8	139	0.00
58	I	Chlorobenzene-d5	1.000	1.000	0.0	158#	0.00
59		4-Methyl-2-pentanone	0.350	0.281	19.7	136	0.00
60		2-Hexanone	0.240	0.187	22.1	127	0.00
61		Tetrachloroethene	0.264	0.302	-14.4	169#	0.00
62		1,3-Dichloropropane	0.405	0.375	7.4	138	0.00
63		Dibromochloromethane	0.278	0.277	0.4	144	0.01
64		1,2-Dibromoethane	0.251	0.248	1.2	144	0.00
65		1-Chlorohexane	0.415	0.360	13.3	143	0.00
66		Chlorobenzene	0.821	0.851	-3.7	155#	0.00
67		1,1,1,2-Tetrachloroethane	0.305	0.312	-2.3	149	0.00
68		Ethylbenzene	1.403	1.363	2.9	149	0.00
69		m,p-Xylene	0.579	0.588	-1.6	156#	0.00
70		o-Xylene	0.571	0.583	-2.1	151#	0.00
71		Xylene (Total)	0.573	0.589	-2.8	154#	0.00
72		Styrene	0.959	0.990	-3.2	154#	0.00
73		Bromoform	0.187	0.206	-10.2	154#	0.00
74		Isopropylbenzene	1.268	1.342	-5.8	160#	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62666.D
Acq On : 27 Mar 2009 9:37 pm
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Apr 01 14:57:46 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:55:43 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75	SS	4-Bromofluorobenzene	0.496	0.518	-4.4	163#	0.00
76		Bromobenzene	0.362	0.410	-13.3	172#	0.00
77		1,1,2,2-Tetrachloroethane	0.387	0.375	3.1	151#	0.00
78		1,2,3-Trichloropropane	0.116	0.120	-3.4	167#	0.00
79		n-Propylbenzene	1.718	1.805	-5.1	155#	0.00
80		Trans-1,4-dichloro-2-butene	0.110	0.121	-10.0	164#	0.00
81		2-Chlorotoluene	0.368	0.419	-13.9	165#	0.00
82		4-Chlorotoluene	0.392	0.429	-9.4	163#	0.00
83		1,3,5-Trimethylbenzene	1.331	1.421	-6.8	160#	0.00
84		Tert-butylbenzene	1.188	1.312	-10.4	167#	0.00
85		Pentachloroethane	0.000	0.000	0.0	157#	0.00
86		1,2,4-Trimethylbenzene	1.416	1.519	-7.3	166#	0.00
87		Sec-Butylbenzene	1.840	1.997	-8.5	164#	0.00
88		1,3-Dichlorobenzene	0.805	0.923	-14.7	178#	0.00
89		4-Isopropyltoluene	1.579	1.824	-15.5	173#	0.00
90		1,4-Dichlorobenzene	0.804	0.936	-16.4	177#	0.00
91	SS	1,2-Dichlorobenzene-d4	0.541	0.646	-19.4	187#	0.00
92		1,2-Dichlorobenzene	0.773	0.910	-17.7	182#	0.00
93		n-Butylbenzene	1.496	1.598	-6.8	163#	0.00
94		1,2-Dibromo-3-chloropropane	0.077	0.076	1.3	150#	0.00
95		1,2,4-Trichlorobenzene	0.529	0.612	-15.7	185#	0.00
96		Hexachlorobutadiene	0.235	0.245	-4.3	186#	0.00
97		Naphthalene	1.447	1.599	-10.5	176#	0.00
98		1,2,3-Trichlorobenzene	0.473	0.555	-17.3	187#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: GPL LABORATORIES, LLC. Contract: _____

Lab Code: GPLL Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: A62739.D BFB Injection Date: 03/31/09

Instrument ID: HP#A BFB Injection Time: 08:26

GC Column: RTX_624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.9
75	30.0 - 66.0% of mass 95	52.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	1.7 (1.8)1
174	50.0 - 120.0% of mass 95	96.0
175	4.0 - 9.0% of mass 174	8.0 (8.4)1
176	93.0 - 101.0% of mass 174	94.0 (98.0)1
177	5.0 - 9.0% of mass 176	6.0 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL01	CAL01	A62740.D	03/31/09	09:17
02	CAL05	CAL05	A62742.D	03/31/09	09:57
03	CAL20	CAL20	A62744.D	03/31/09	10:38
04	CAL50	CAL50	A62746.D	03/31/09	11:19
05	CAL100	CAL100	A62748.D	03/31/09	12:00
06	CAL200	CAL200	A62752.D	03/31/09	13:41
07	ICV50	ICV50	A62762.D	03/31/09	18:52

Response Factor Report Instrument A

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C1_033109B.M
Title : 8260
Last Update : Thu Apr 02 00:53:07 2009
Response Via : Initial Calibration

Calibration Files
1 =A62740.D 5 =A62742.D 20 =A62744.D 50 =A62746.D 100 =A62748.D
200 =A62752.D

		Compound	1	5	20	50	100	200	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluo...	0.104	0.125	0.147	0.183		0.158	0.144	~~21.02~~ r^2=0,99
3)		Chloromethane	0.328	0.206	0.232	0.268	0.257	0.271	0.261	15.88
4)		Vinyl chloride	0.322	0.233	0.261	0.275	0.264	0.253	0.268	11.11
5)		Bromomethane	0.276	0.158	0.328	0.383	0.341		0.297	~~29.23~~ r^2=0,99
6)		Chloroethane	0.158	0.167	0.169	0.311	0.357	0.397	0.260	~~41.52~~ r^2=0,99
7)		Trichlorofluor...	0.346	0.360	0.419	0.458	0.572		0.431	~~21.08~~ r^2=0,99
8)		Ethyl Ether	0.190	0.203	0.208	0.232	0.249	0.243	0.221	10.78
9)		Freon 113	0.223	0.212	0.266	0.275		0.295	0.254	13.96
10)		Acrolein		0.031	0.036	0.037	0.043	0.041	0.038	12.58
11)		Tert-Butyl alc...	0.017	0.020	0.026	0.029	0.031		0.025	~~23.11~~ r^2=0,99
12)		1,1-Dichloroet...	0.201	0.196	0.223	0.238	0.251	0.261	0.228	11.49
13)		Iodomethane	0.368	0.196	0.221	0.273	0.261	0.398	0.286	~~28.10~~ r^2=0,99
14)		Acetonitrile	0.107	0.104	0.127	0.168	0.232	0.287	0.171	~~43.54~~ r^2=0,99
15)		Methylene chlo...	0.437	0.277	0.268	0.279	0.275	0.295	0.305	~~21.43~~ r^2=0,99
16)		Trans-1,2-dich...	0.286	0.242	0.257	0.274	0.299		0.271	8.36
17)		Isopropyl ether	0.808	0.858	0.959	1.000	1.068		0.939	11.24
18)		1,1-Dichloroet...	0.428	0.427	0.485	0.505	0.552		0.479	11.05
19)		Acetone	0.162	0.101	0.125	0.134	0.122	0.101	0.124	18.51
20)		Methyl Acetate	0.334	0.342	0.376	0.407		0.406	0.373	9.20
21)		MTBE	0.665	0.648	0.738	0.820	0.879		0.750	13.19
22)		Carbon disulfide	1.069	0.725	0.747	0.816	0.874	0.911	0.857	14.69
23)		Allyl Chloride							0.000	-1.00
24)		Acrylonitrile		0.053	0.064	0.070	0.075	0.070	0.066	12.79
25)		Chloroprene	0.373	0.294	0.350	0.394	0.427	0.459	0.383	15.19
26)	T	n-Heptane							0.000	-1.00
27)		2,2-Dichloropr...	0.355	0.326		0.410	0.440	0.428	0.392	12.52
28)		Cis-1,2-dichlo...	0.329	0.258		0.324	0.331	0.340	0.317	10.54
29)		1,2-dichloroet...	0.308		0.283	0.309	0.316	0.331	0.309	5.63
30)		Propionitrile	0.031	0.032	0.037	0.040	0.041	0.037	0.036	11.65
31)		Bromochloromet...	0.174	0.147	0.160	0.175	0.186	0.188	0.172	9.04
32)		Tetrahydrofuran	0.069	0.054	0.066	0.070	0.071	0.065	0.066	9.56
33)		Chloroform	0.541	0.446	0.491	0.549	0.603	0.665	0.549	14.20
34)		Cyclohexane	0.349	0.373	0.447	0.476	0.449	0.495	0.432	13.43
35)		1,1,1-Trichlor...	0.362	0.365	0.421	0.466	0.474	0.490	0.430	13.11
36)		Carbon tetrach...	0.314	0.312	0.387	0.407	0.432	0.438	0.382	14.72
37)		Methacrylonitrile	0.163		0.195	0.221	0.242	0.249	0.214	16.59
38)		Methylcyclohexane	0.324	0.368	0.439	0.451	0.447	0.464	0.415	13.50
39)		Isobutyl Alcohol	0.011	0.011	0.013	0.015		0.009	0.012	18.66
40)	SS	1,2-Dichloroet...	0.287	0.280	0.280	0.284	0.293	0.290	0.286	1.88
41)		1,4-Difluorobenzene	ISTD							
42)		2-Butanone	0.172	0.160	0.198	0.210	0.203	0.201	0.191	10.40

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C1_033109B.M
Title : 8260

43)		1,1-Dichloropr...	0.419	0.367	0.405	0.438	0.446	0.515	0.432	11.45
44)		Vinyl Acetate	1.256	1.013	0.918	0.674	0.559	0.442	0.810	~~37.79~~ r^2=0.99
45)		Benzene	1.093	1.062	1.182	1.263	1.316	1.541	1.243	14.11
46)		1,2-Dichloroet...	0.446	0.349	0.390	0.419	0.425	0.485	0.419	11.13
47)		Trichloroethene	0.293	0.276	0.288	0.337	0.337	0.368	0.317	11.44
48)		1,2-Dichloropr...	0.274	0.259	0.284	0.300	0.330	0.359	0.301	12.44
49)		Methyl methacr...	0.198	0.191	0.184	0.209	0.228	0.236	0.208	10.01
50)		Dibromomethane	0.176	0.154	0.174	0.191	0.217	0.233	0.191	15.42
51)		Bromodichlorom...	0.331	0.322	0.372	0.405	0.457	0.491	0.396	17.22
52)		2-Chloroethylv...	0.042	0.104	0.536	0.158	0.165	0.110	0.186	~~95.36~~ r^2=0.99
53)		Cis-1,3-dichlo...	0.414	0.375		0.478	0.485	0.575	0.465	16.43
54)	SS	Toluene-d8	1.068	0.984	1.013	1.000	0.995	1.134	1.032	5.62
55)		Toluene	0.718	0.653	0.718	0.786	0.788	0.943	0.768	12.97
56)		Trans-1,3-dich...	0.315	0.307		0.434	0.444	0.512	0.402	22.00
57)		Ethyl methacry...	0.283	0.294	0.363	0.385	0.386	0.432	0.357	16.23
58)		1,1,2-Trichlor...	0.200	0.179		0.230	0.238	0.277	0.225	16.78
59)	I	Chlorobenzene-d5	----------	ISTD	----------					
60)		4-Methyl-2-pen...	0.259	0.315	0.374	0.381	0.374	0.318	0.337	14.34
61)		2-Hexanone	0.194	0.230	0.271	0.282	0.266	0.224	0.245	13.75
62)		Tetrachloroethene	0.344	0.361	0.408	0.428	0.428	0.457	0.404	10.71
63)		1,3-Dichloropr...	0.491	0.456	0.528	0.533	0.534	0.507	0.508	6.05
64)		Dibromochlorom...	0.345	0.314	0.365	0.396	0.406	0.403	0.371	9.97
65)		1,2-Dibromoethane	0.277	0.287	0.305	0.329	0.331	0.312	0.307	7.07
66)		1-Chlorohexane	0.513	0.457	0.512	0.534	0.529	0.529	0.512	5.60
67)		Chlorobenzene	0.937	0.991	1.086	1.141	1.148	1.170	1.079	8.79
68)		1,1,1,2-Tetrac...	0.288	0.332	0.388	0.431	0.454	0.474	0.394	18.46
69)		Ethylbenzene	1.620	1.522	1.778	1.891	1.938	2.047	1.799	11.07
70)		m,p-Xylene	0.648	0.631	0.715	0.783	0.821		0.720	11.51
71)		o-Xylene	0.618	0.599	0.683	0.736	0.754	0.771	0.693	10.43
72)		Xylene (Total)	0.638	0.620	0.706	0.770	0.802	0.861	0.733	12.93
73)		Styrene	0.984	0.997	1.182	1.266	1.293	1.340	1.177	13.03
74)		Bromoform	0.169	0.185	0.229	0.259	0.267	0.256	0.228	18.19
75)		Isopropylbenzene	1.238	1.355	1.530	1.632	1.677	1.708	1.523	12.45
76)	SS	4-Bromofluorob...	0.436	0.433	0.432	0.433	0.430	0.398	0.427	3.30
77)		Bromobenzene	0.436	0.390	0.456	0.476	0.493	0.490	0.457	8.60
78)		1,1,2,2-Tetrac...	0.364	0.354	0.411	0.419	0.430	0.396	0.396	7.77
79)		1,2,3-Trichlor...	0.113	0.115	0.124	0.134	0.133	0.122	0.124	7.27
80)		n-Propylbenzene	1.766	1.772	2.085	2.215	2.297	2.358	2.082	12.45
81)		Trans-1,4-dich...	0.077	0.111	0.129	0.129	0.130	0.091	0.111	20.42
82)		2-Chlorotoluene	0.393	0.412	0.456	0.482	0.503	0.503	0.458	10.25
83)		4-Chlorotoluene	0.427	0.438	0.475	0.519	0.522	0.537	0.486	9.63
84)		1,3,5-Trimethy...	1.261	1.293	1.478	1.589	1.700	1.753	1.512	13.58
85)		Tert-butylbenzene	1.400	1.522	1.352	1.466	1.551	1.573	1.477	5.92
86)		Pentachloroethane							0.000	-1.00
87)		1,2,4-Trimethy...	1.261	1.271	1.538	1.704	1.820	1.947	1.590	17.91
88)		Sec-Butylbenzene	1.598	1.701	2.040	2.190	2.305	2.353	2.031	15.57
89)		1,3-Dichlorobe...	0.840	0.753	0.926	1.038	1.122	1.232	0.985	18.20
90)		4-Isopropyltol...	1.400	1.522	1.846	2.067	2.196		1.806	18.93
91)		1,4-Dichlorobe...	0.934	0.845	0.923	1.021	1.066	1.110	0.983	10.11
92)	SS	1,2-Dichlorobe...	0.456	0.477	0.483	0.493	0.486	0.495	0.482	2.95
93)		1,2-Dichlorobe...	0.888	0.774		0.943	0.961	1.030	0.919	10.39
94)		n-Butylbenzene	1.427	1.347	1.603	1.801	1.818	1.946	1.657	14.35
95)		1,2-Dibromo-3-...	0.028	0.053	0.068	0.073	0.073	0.065	0.060	~~28.76~~ r^2=0.99
96)		1,2,4-Trichlor...	0.614	0.450	0.524	0.602	0.651	0.682	0.587	14.64

Method Path : H:\GCMSDATA\A\METHODS\
Method File : A8260C1_033109B.M
Title : 8260

97)	Hexachlorobuta...	0.314	0.207	0.255	0.295	0.313	0.339	0.287	16.76
98)	Naphthalene	0.942	1.060	1.275	1.450	1.520	1.376	1.271	17.86
99)	1,2,3-Trichlor...	0.413	0.394	0.462	0.533	0.560	0.537	0.483	14.57

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\040109C1\
Data File : A62771.D
Acq On : 1 Apr 2009 8:10 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:04:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C1_033109B.M
Quant Title : 8260
QLast Update : Thu Apr 02 00:51:18 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	119	0.00
2		Dichlorodifluoromethane	0.144	0.130	9.7	84	0.00
3		Chloromethane	0.261	0.231	11.5	102	0.00
4		Vinyl chloride	0.268	0.231	13.8	99	0.00
5		Bromomethane	0.297	0.338	-13.8	105	0.00
6		Chloroethane	0.260	0.237	8.8	90	-0.01
7		Trichlorofluoromethane	0.431	0.418	3.0	108	0.00
8		Ethyl Ether	0.221	0.210	5.0	107	0.00
9		Freon 113	0.254	0.247	2.8	107	0.00
10		Acrolein	0.038	0.035	7.9	112	0.00
11		Tert-Butyl alcohol	0.025	0.026	-4.0	106	0.00
12		1,1-Dichloroethene	0.228	0.212	7.0	106	0.00
13		Iodomethane	0.286	0.292	-2.1	127	0.00
14		Acetonitrile	0.171	0.147	14.0	104	0.00
15		Methylene chloride	0.305	0.247	19.0	105	0.00
16		Trans-1,2-dichloroethene	0.271	0.250	7.7	109	0.00
17		Isopropyl ether	0.939	0.912	2.9	108	0.00
18		1,1-Dichloroethane	0.479	0.470	1.9	111	0.00
19		Acetone	0.124	0.084	32.3#	74	0.00
20		Methyl Acetate	0.373	0.369	1.1	108	0.00
21		MTBE	0.750	0.754	-0.5	109	0.00
22		Carbon disulfide	0.857	0.754	12.0	110	0.00
23		Allyl Chloride	0.000	0.000	0.0	104	0.00
24		Acrylonitrile	0.066	0.065	1.5	110	0.00
25		Chloroprene	0.383	0.382	0.3	115	0.00
26	T	n-Heptane	0.000	0.000	0.0	164#	0.14
27		2,2-Dichloropropane	0.392	0.389	0.8	113	0.00
28		Cis-1,2-dichloroethene	0.317	0.285	10.1	104	0.00
29		1,2-dichloroethene(total)	0.309	0.273	11.7	105	0.00
30		Propionitrile	0.036	0.037	-2.8	109	0.00
31		Bromochloromethane	0.172	0.156	9.3	106	0.00
32		Tetrahydrofuran	0.066	0.060	9.1	101	0.00
33		Chloroform	0.549	0.491	10.6	106	0.00
34		Cyclohexane	0.432	0.419	3.0	105	0.00
35		1,1,1-Trichloroethane	0.430	0.417	3.0	106	0.00
36		Carbon tetrachloride	0.382	0.370	3.1	108	0.00
37		Methacrylonitrile	0.214	0.198	7.5	107	0.00
38		Methylcyclohexane	0.415	0.410	1.2	108	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\040109C1\
Data File : A62771.D
Acq On : 1 Apr 2009 8:10 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:04:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C1_033109B.M
Quant Title : 8260
QLast Update : Thu Apr 02 00:51:18 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		Isobutyl Alcohol	0.012	0.013	-8.3	103	0.00
40	SS	1,2-Dichloroethane-d4	0.286	0.283	1.0	118	0.00
41		1,4-Difluorobenzene	1.000	1.000	0.0	119	0.00
42		2-Butanone	0.191	0.169	11.5	96	0.00
43		1,1-Dichloropropene	0.432	0.396	8.3	108	0.00
44		Vinyl Acetate	0.810	0.347	57.2#	61	0.00
45		Benzene	1.243	1.158	6.8	109	0.00
46		1,2-Dichloroethane	0.419	0.388	7.4	110	0.00
47		Trichloroethene	0.317	0.278	12.3	98	0.00
48		1,2-Dichloropropane	0.301	0.283	6.0	112	0.00
49		Methyl methacrylate	0.208	0.194	6.7	110	0.00
50		Dibromomethane	0.191	0.174	8.9	108	0.00
51		Bromodichloromethane	0.396	0.380	4.0	112	0.00
52		2-Chloroethylvinyl ether	0.186	0.162	12.9	122	0.00
53		Cis-1,3-dichloropropene	0.465	0.455	2.2	113	0.00
54	SS	Toluene-d8	1.032	1.029	0.3	123	0.00
55		Toluene	0.768	0.716	6.8	108	0.00
56		Trans-1,3-dichloropropene	0.402	0.415	-3.2	114	0.00
57		Ethyl methacrylate	0.357	0.365	-2.2	113	0.00
58		1,1,2-Trichloroethane	0.225	0.223	0.9	115	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	122	0.00
60		4-Methyl-2-pentanone	0.337	0.333	1.2	107	0.00
61		2-Hexanone	0.245	0.237	3.3	103	0.00
62		Tetrachloroethene	0.404	0.373	7.7	107	0.00
63		1,3-Dichloropropane	0.508	0.495	2.6	113	0.00
64		Dibromochloromethane	0.371	0.355	4.3	110	0.00
65		1,2-Dibromoethane	0.307	0.296	3.6	110	0.00
66		1-Chlorohexane	0.512	0.471	8.0	108	0.00
67		Chlorobenzene	1.079	1.004	7.0	108	0.00
68		1,1,1,2-Tetrachloroethane	0.394	0.374	5.1	106	0.00
69		Ethylbenzene	1.799	1.664	7.5	108	0.00
70		m,p-Xylene	0.720	0.691	4.0	108	0.00
71		o-Xylene	0.693	0.657	5.2	109	0.00
72		Xylene (Total)	0.733	0.680	7.2	108	0.00
73		Styrene	1.177	1.124	4.5	109	0.00
74		Bromoform	0.228	0.228	0.0	108	0.00

Evaluate Continuing Calibration Report

Data Path : H:\GCMSDATA\A\040109C1\
Data File : A62771.D
Acq On : 1 Apr 2009 8:10 am
Operator : SM
Sample : CCV50
Misc : CCV50
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:04:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C1_033109B.M
Quant Title : 8260
QLast Update : Thu Apr 02 00:51:18 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
75		Isopropylbenzene	1.523	1.450	4.8	109	0.00
76	SS	4-Bromofluorobenzene	0.427	0.435	-1.9	123	0.00
77		Bromobenzene	0.457	0.430	5.9	111	0.00
78		1,1,2,2-Tetrachloroethane	0.396	0.383	3.3	112	0.00
79		1,2,3-Trichloropropane	0.124	0.119	4.0	108	0.00
80		n-Propylbenzene	2.082	1.967	5.5	109	0.00
81		Trans-1,4-dichloro-2-butene	0.111	0.118	-6.3	112	0.00
82		2-Chlorotoluene	0.458	0.431	5.9	109	0.00
83		4-Chlorotoluene	0.486	0.447	8.0	105	0.00
84		1,3,5-Trimethylbenzene	1.512	1.417	6.3	109	0.00
85		Tert-butylbenzene	1.477	1.282	13.2	107	0.00
86		Pentachloroethane	0.000	0.000	0.0	117	0.00
87		1,2,4-Trimethylbenzene	1.590	1.484	6.7	106	0.00
88		Sec-Butylbenzene	2.031	1.910	6.0	107	0.00
89		1,3-Dichlorobenzene	0.985	0.915	7.1	108	0.00
90		4-Isopropyltoluene	1.806	1.764	2.3	104	0.00
91		1,4-Dichlorobenzene	0.983	0.895	9.0	107	0.00
92	SS	1,2-Dichlorobenzene-d4	0.482	0.488	-1.2	121	0.00
93		1,2-Dichlorobenzene	0.919	0.838	8.8	109	0.00
94		n-Butylbenzene	1.657	1.553	6.3	105	0.00
95		1,2-Dibromo-3-chloropropane	0.060	0.066	-10.0	110	0.00
96		1,2,4-Trichlorobenzene	0.587	0.528	10.1	107	0.00
97		Hexachlorobutadiene	0.287	0.265	7.7	110	0.00
98		Naphthalene	1.271	1.251	1.6	105	0.00
99		1,2,3-Trichlorobenzene	0.483	0.458	5.2	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ION CHROMATOGRAPHY ANALYSES

GPL Laboratories

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-014-068-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.4	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-012-066-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	13	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW36-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-008-062-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.9	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-006-060-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	16	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-003-057-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.2	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-007-061-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	5.2	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-015-069-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	5.4	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW45-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-010-064-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	9.8	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-055-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.0	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-055-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/30/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
14797-55-8	Nitrate	1.0	
7727-37-9	Nitrite	1.4	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-055-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/31/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	17	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-056-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	6.4	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-056-1/1MS
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/31/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	16	
14797-55-8	Nitrate	0.95	
7727-37-9	Nitrite	1.2	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW52-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-009-063-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	11	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-013-067-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	10	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW60-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-011-065-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µ L	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	8.9	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-004-058-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	7.2	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-059-1/1
Sample Volume :		Lab File ID :	1
% Moisture:		Date Received	03/19/2009
Extraction:		Date Extracted:	
Extract Volume:	mL	Date Analyzed	03/19/2009
Injection Volume :	µL	Dilution Factor :	1
GPC Clean up (Y/N):	pH:		

Concentration Units (ug/L or ug/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
16887-00-6	Chloride	6.3	
14797-55-8	Nitrate	0.10	U
7727-37-9	Nitrite	0.10	U

Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.67 min	1.00 min	
Chloride	6.20 min	1.00 min	
Nitrite-N	7.83 min	1.00 min	
Bromide	10.33 min	1.00 min	
Nitrate-N	12.20 min	1.00 min	
Phosphate-P	15.67 min	5.00 min	
Sulfate	17.80 min	1.00 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.67 min	0	0
Chloride	6.20 min	0	0
Nitrite-N	7.83 min	0	0
Bromide	10.33 min	0	0
Nitrate-N	12.20 min	0	0
Phosphate-P	15.67 min	0	0
Sulfate	17.80 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.67 min	Linear	Ignore	Area		0.00
Chloride	6.20 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	7.83 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.33 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	12.20 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.67 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.80 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	21958
2	0.10	135267
3	0.25	287985
4	0.50	546281
5	1.00	1.21146e+006
6	2.50	3.07327e+006

CD20 Component = Chloride Levels Table

Retention Time : 6.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	14140.9
2	0.10	104137
3	0.25	210975
4	0.50	423601
5	1.00	886345
6	2.50	2.27702e+006

CD20 Component = Nitrite-N Levels Table

Retention Time : 7.83 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	62855.3
2	0.10	238116
3	0.25	487595
4	0.50	880655
5	1.00	1.79323e+006
6	2.50	4.50791e+006

CD20 Component = Bromide Levels Table

Retention Time : 10.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	2913.3
2	0.10	36053.3
3	0.25	87423.9
4	0.50	184692
5	1.00	378819
6	2.50	940431

CD20 Component = Nitrate-N Levels Table

Retention Time : 12.20 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	5156.9
2	0.10	198696
3	0.25	532712
4	0.50	1.03372e+006
5	1.00	2.36629e+006
6	2.50	6.12422e+006

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.67 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	8388.6
2	0.10	29693.1
3	0.25	120423
4	0.50	216150
5	1.00	493533
6	2.50	1.34148e+006

CD20 Component = Sulfate Levels Table

Retention Time : 17.80 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	6080.9
2	0.10	79015.6
3	0.25	193779
4	0.50	348721
5	1.00	729749
6	2.50	1.79531e+006

CD20 XY Data Parameters

Calibration Update Report

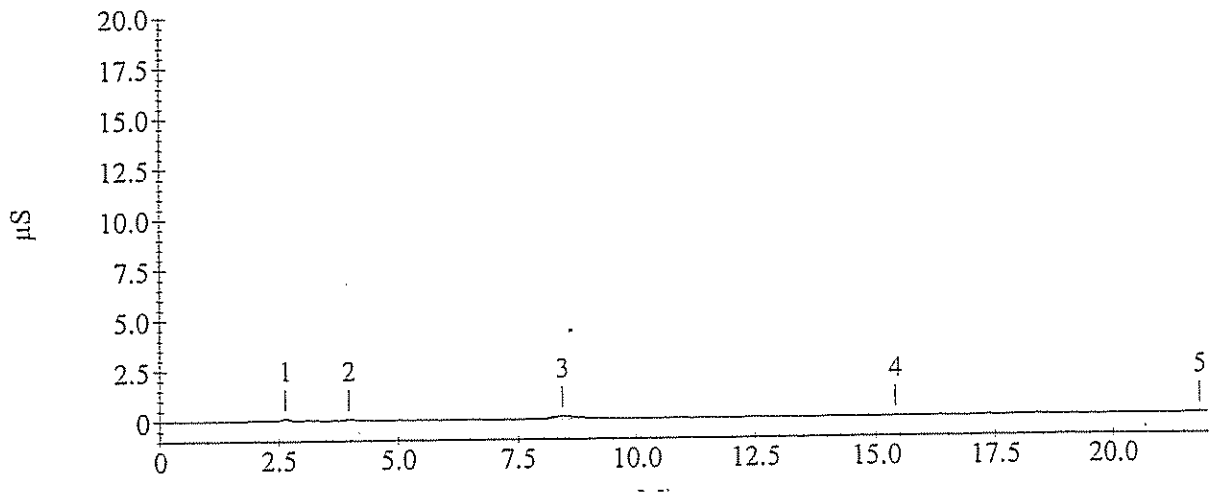
Sample Name : STD 1 - BLK
Data File Name : I:\ICDATA\IC500\090318\090318__005.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:30:43 PM
Calibration Date : 3/19/09 9:53:29 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.97	4957	21958	21958
3	Chloride Nitrite-N Bromide	8.43	13027	62855	62855
4	Nitrate-N Phosphate-P Sulfate	15.40	7303	8389	8389

STD 1 - BLK



Calibration Update Report

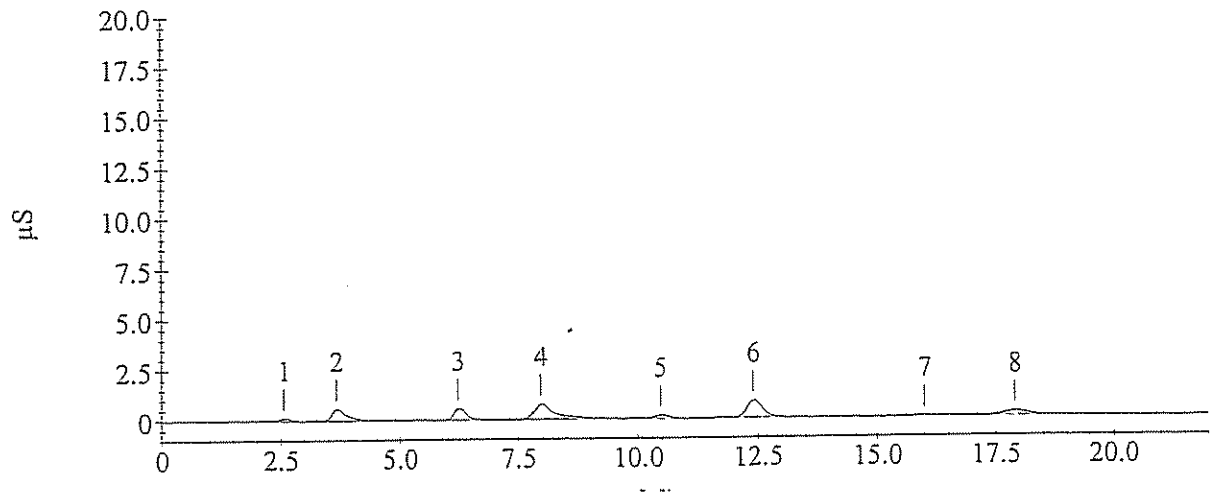
Sample Name : STD 2 - 0.10 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__006.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 1:55:47 PM
Calibration Date : 3/19/09 10:00:49 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	109547	135267	135267
3	Chloride	6.23	77116	104137	104137
4	Nitrite-N	7.97	159558	238116	238116
5	Bromide	10.47	38327	36053	36053
6	Nitrate-N	12.40	205502	198696	198696
7	Phosphate-P	16.00	67440	29693	29693
8	Sulfate	17.90	53957	79016	79016

STD 2 - 0.10 mg/L



Calibration Update Report

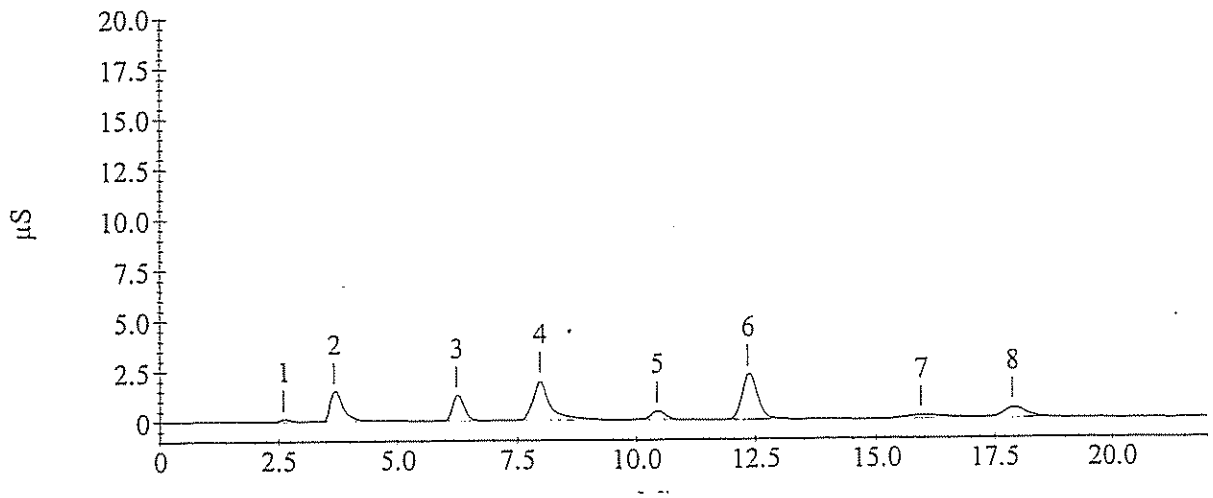
Sample Name : STD 3 - 0.25 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__007.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:20:51 PM
Calibration Date : 3/19/09 9:16:23 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	277132	287985	287985
3	Chloride	6.23	197410	210975	210975
4	Nitrite-N	7.97	359105	487595	487595
5	Bromide	10.43	88554	87424	87424
6	Nitrate-N	12.33	506529	532712	532712
7	Phosphate-P	15.93	165945	120423	120423
8	Sulfate	17.87	139751	193779	193779

STD 3 - 0.25 mg/L



Calibration Update Report

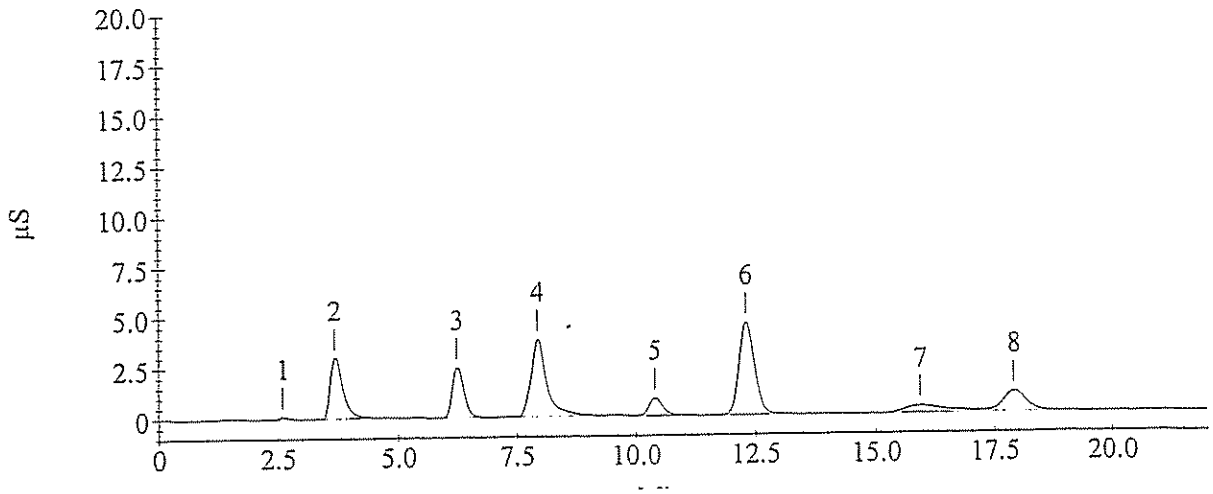
Sample Name : STD 4 - 0.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__008.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 2:45:56 PM
Calibration Date : 3/19/09 9:16:47 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	557311	546281	546281
3	Chloride	6.23	408470	423601	423601
4	Nitrite-N	7.93	820570	880655	880655
5	Bromide	10.40	165498	184692	184692
6	Nitrate-N	12.30	970676	1033717	1033717
7	Phosphate-P	15.93	353067	216150	216150
8	Sulfate	17.90	274835	348721	348721

STD 4 - 0.50 mg/L



Calibration Update Report

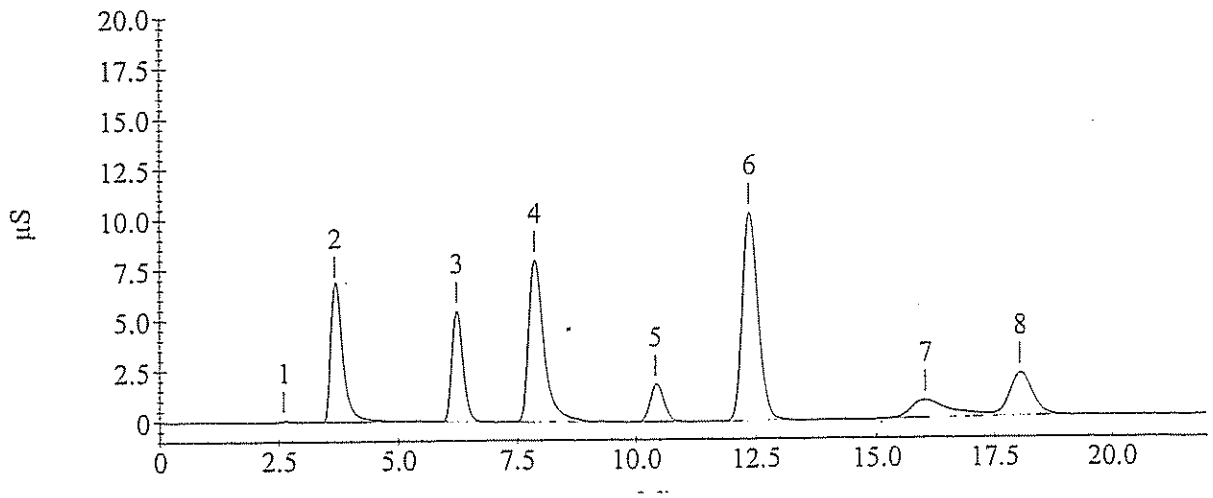
Sample Name : STD 5 - 1.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__009.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:11:03 PM
Calibration Date : 3/19/09 9:17:01 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	1241286	1211455	1211455
3	Chloride	6.23	836176	886345	886345
4	Nitrite-N	7.87	1743424	1793231	1793231
5	Bromide	10.40	356395	378819	378819
6	Nitrate-N	12.37	2165069	2366291	2366291
7	Phosphate-P	16.03	734622	493533	493533
8	Sulfate	18.03	612643	729749	729749

STD 5 - 1.00 mg/L



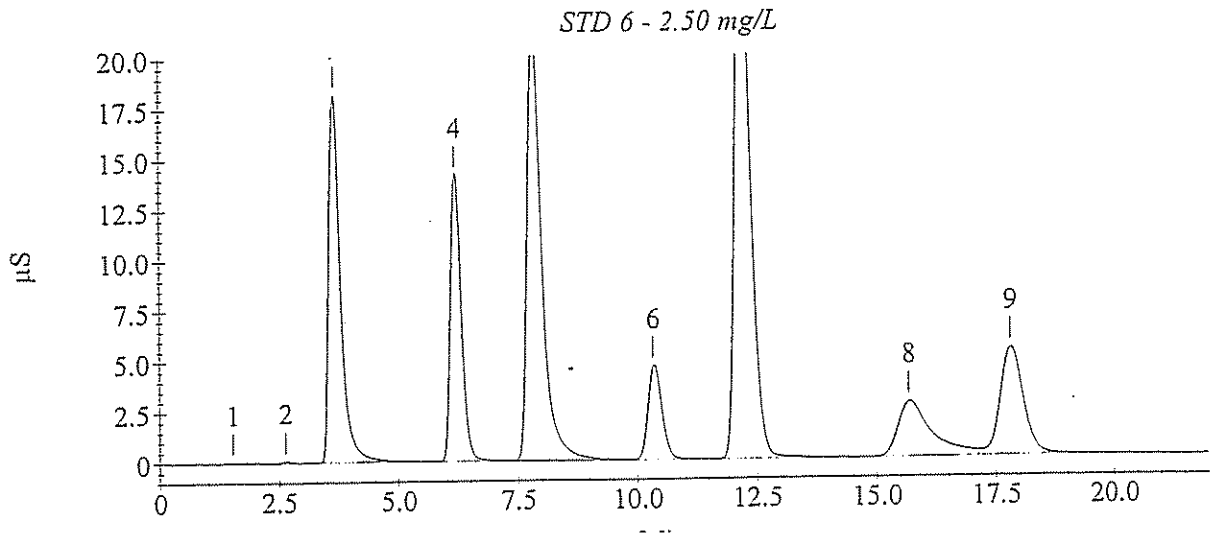
Calibration Update Report

Sample Name : STD 6 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__010.DXD

Method File Name : H:\icdata\methods\method 300\090318l-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 3:36:08 PM
Calibration Date : 3/19/09 9:17:14 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.67	3200757	3073266	3073266
4	Chloride	6.20	2128443	2277017	2277017
5	Nitrite-N	7.83	4384638	4507913	4507913
6	Bromide	10.33	912041	940431	940431
7	Nitrate-N	12.20	6057211	6124224	6124224
8	Phosphate-P	15.67	1937708	1341477	1341477
9	Sulfate	17.80	1520461	1795309	1795309



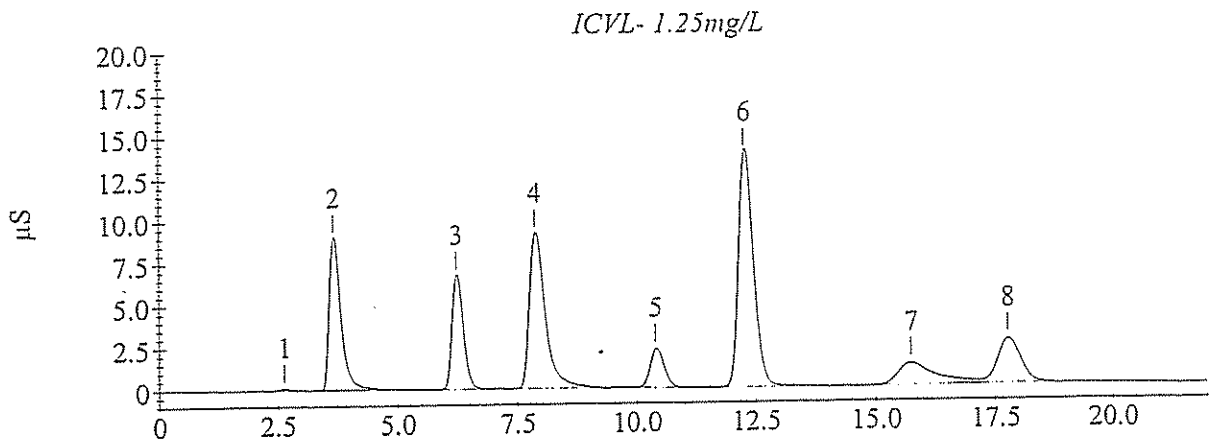
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__017.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/18/09 6:31:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.283	1565911	89179
3	Chloride	6.23	1.228	1107725	66995
4	Nitrite-N	7.87	1.169	2120349	91415
5	Bromide	10.40	1.243	466511	23016
6	Nitrate-N	12.27	1.307	3138229	138573
7	Phosphate-P	15.73	1.340	701225	13082
8	Sulfate	17.77	1.256	905537	26377



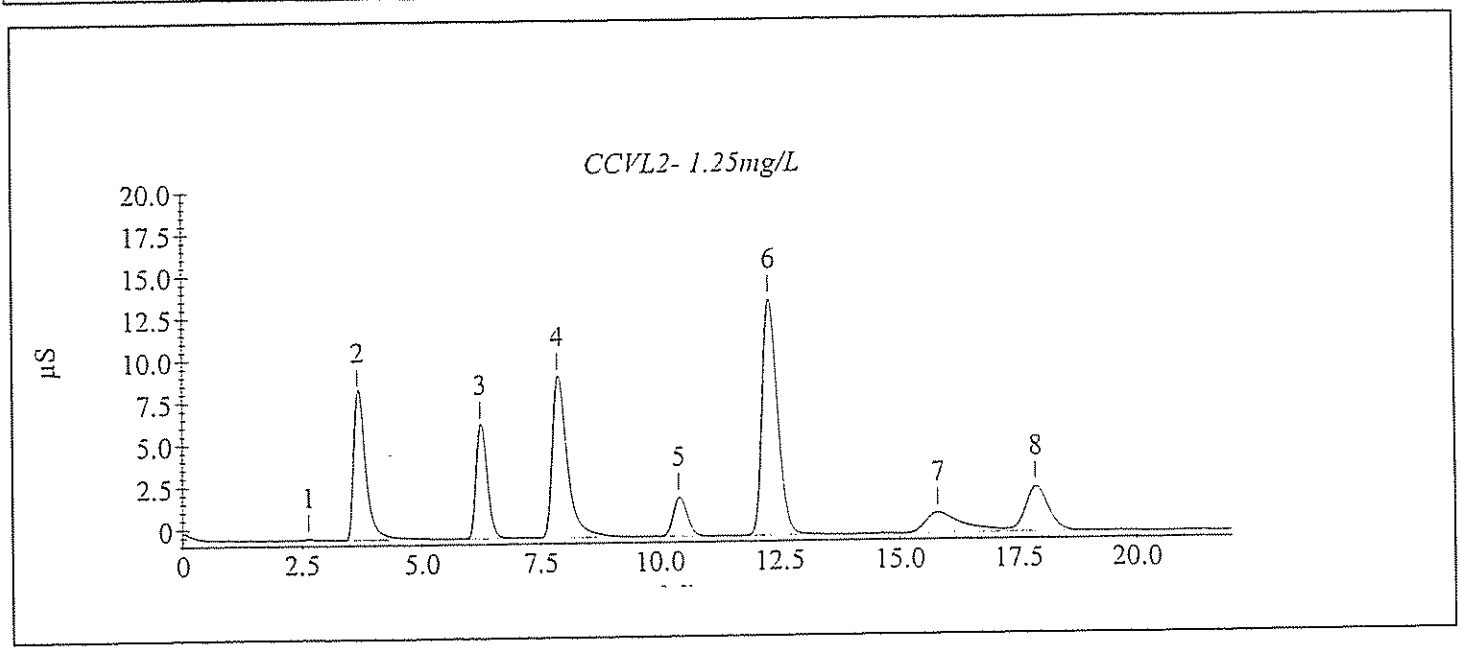
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__043.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/19/09 5:24:18 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.295	1580585	86219
3	Chloride	6.23	1.230	1109382	66522
4	Nitrite-N	7.87	1.158	2100598	94705
5	Bromide	10.40	1.248	468415	22791
6	Nitrate-N	12.30	1.298	3116374	139567
7	Phosphate-P	15.80	1.247	650862	12193
8	Sulfate	17.87	1.232	888404	26343



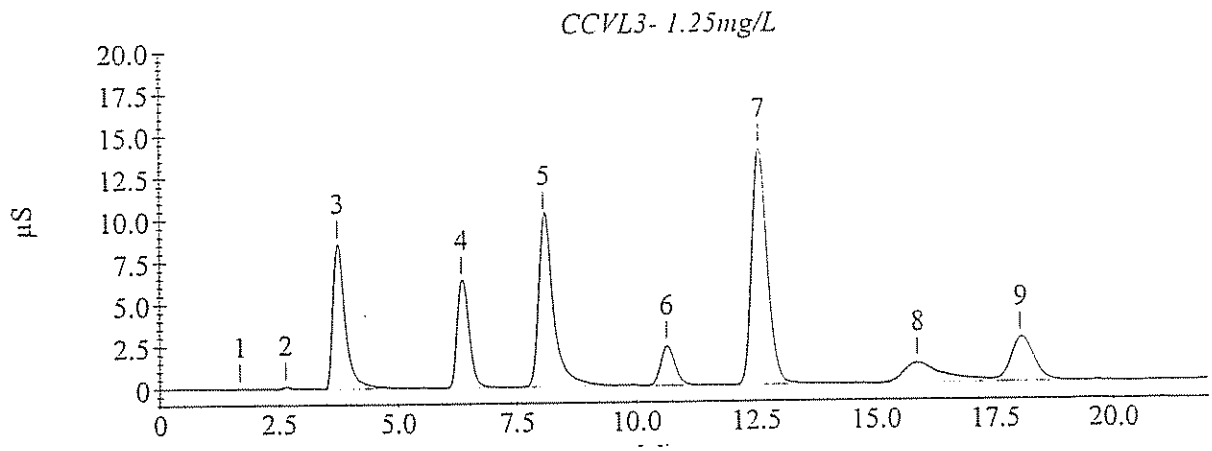
Sample Analysis Report

Sample Name : CCVL3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__056.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/19/09 12:44:51 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
3	Fluoride	3.73	1.282	1564227	85177
4	Chloride	6.33	1.254	1131185	63102
5	Nitrite-N	8.07	1.213	2197744	100634
6	Bromide	10.63	1.295	486145	23290
7	Nitrate-N	12.57	1.328	3191612	139809
8	Phosphate-P	15.87	1.328	694598	11871
9	Sulfate	18.03	1.286	926892	26240



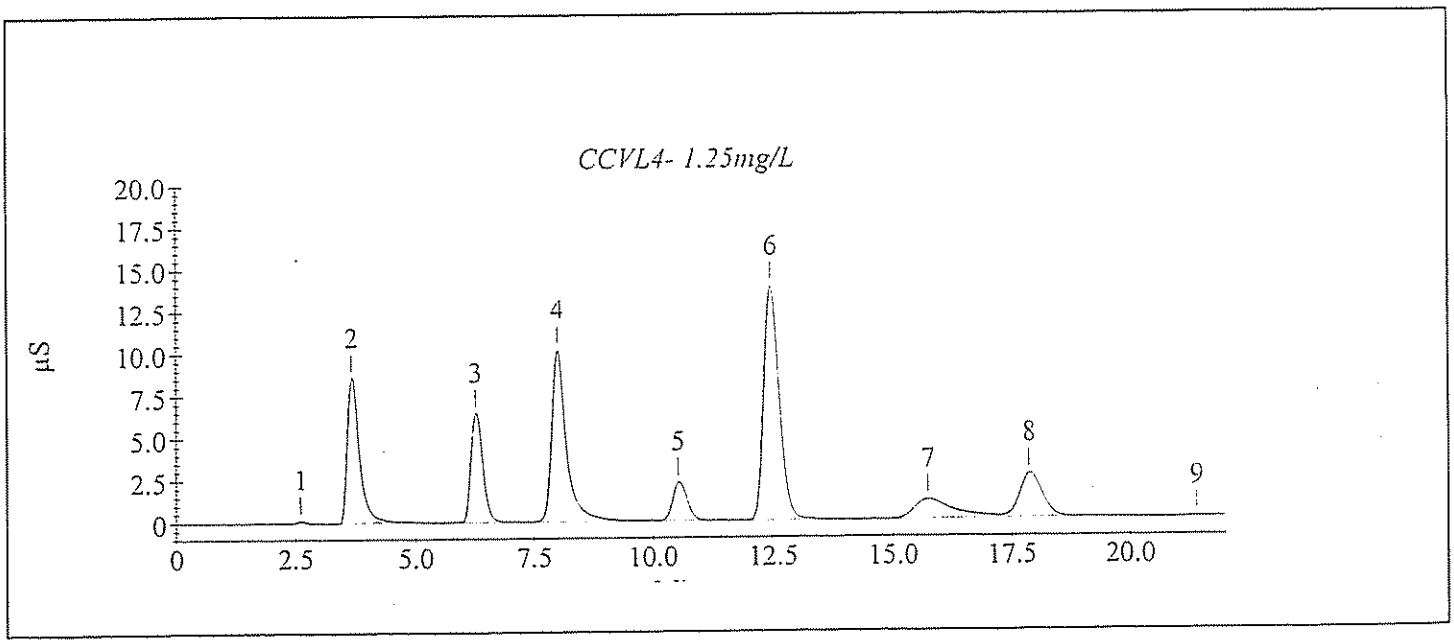
Sample Analysis Report

Sample Name : CCVL4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__069.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/19/09 6:10:54 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.252	1527641	84961
3	Chloride	6.27	1.241	1119338	64077
4	Nitrite-N	8.00	1.206	2185117	101260
5	Bromide	10.53	1.252	470063	22596
6	Nitrate-N	12.47	1.311	3148602	138354
7	Phosphate-P	15.73	1.266	661248	11562
8	Sulfate	17.87	1.226	884043	26061



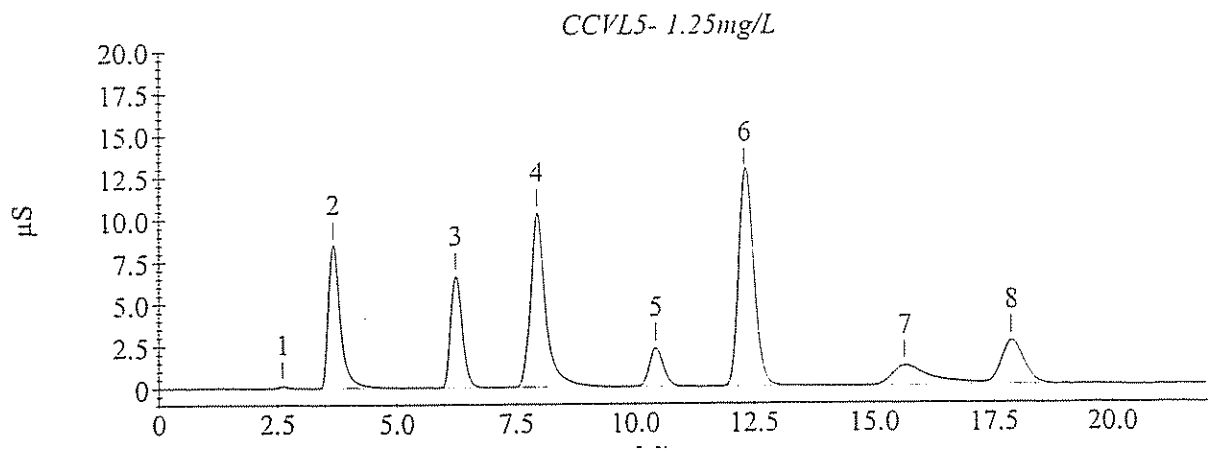
Sample Analysis Report

Sample Name : CCVL5- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__083.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/20/09 12:02:00 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	1.231	1501750	84233
3	Chloride	6.23	1.230	1109631	65603
4	Nitrite-N	7.93	1.246	2256803	102863
5	Bromide	10.43	1.269	476184	23013
6	Nitrate-N	12.30	1.211	2899459	126558
7	Phosphate-P	15.63	1.274	665210	11776
8	Sulfate	17.87	1.207	870814	25849



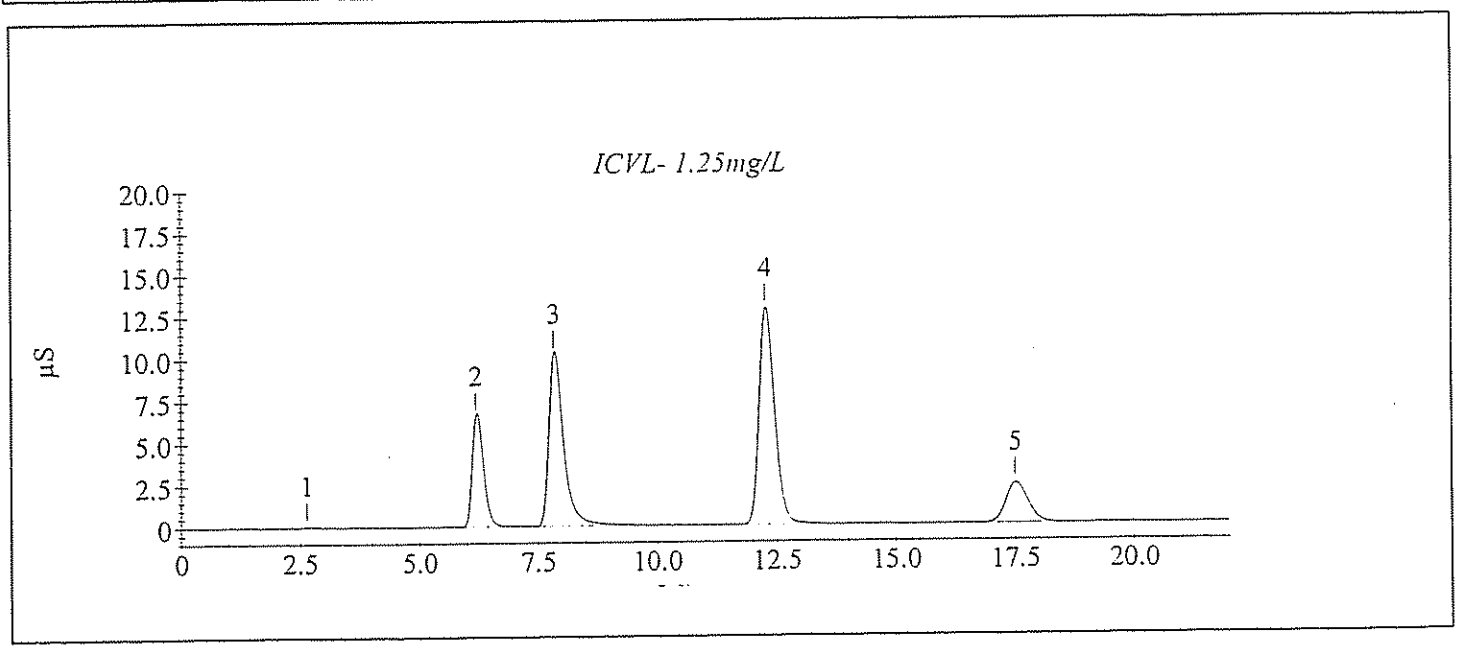
Sample Analysis Report

Sample Name : ICVL- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__002.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/30/09 5:01:22 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	9997	569
2	Chloride	6.20	1.236	1114816	64847
3	Nitrite-N	7.83	1.229	2225878	101293
4	Bromide Nitrate-N	12.27	1.221	2923807	127937
5	Phosphate-P Sulfate	17.50	1.090	786840	23760



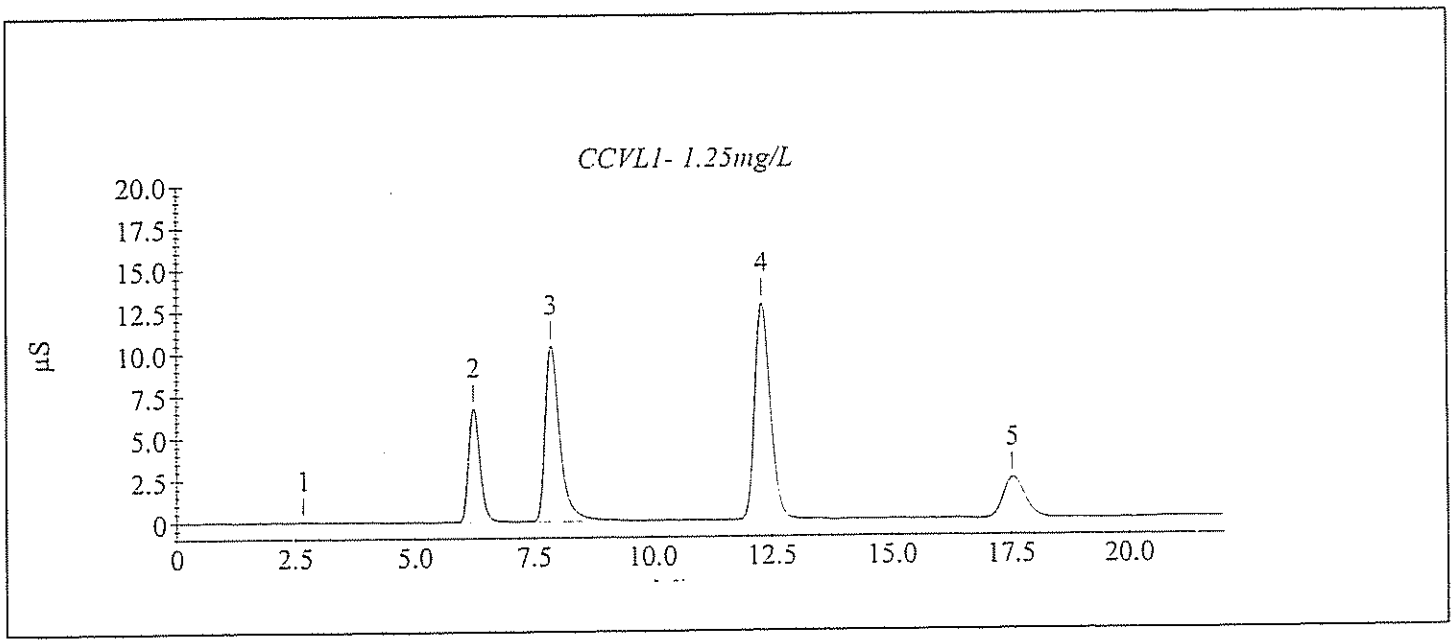
Sample Analysis Report

Sample Name : CCVL1- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__015.DXD

Method File Name : h:\icdata\methods\method 300\090318l-300-0.met
Date Time Collected : 3/30/09 10:25:38 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.67	0.000	5538	485
2	Chloride	6.23	1.258	1134603	67089
3	Nitrite-N	7.87	1.246	2256217	103754
4	Bromide Nitrate-N	12.30	1.213	2904837	128028
5	Phosphate-P Sulfate	17.53	1.090	786906	23916



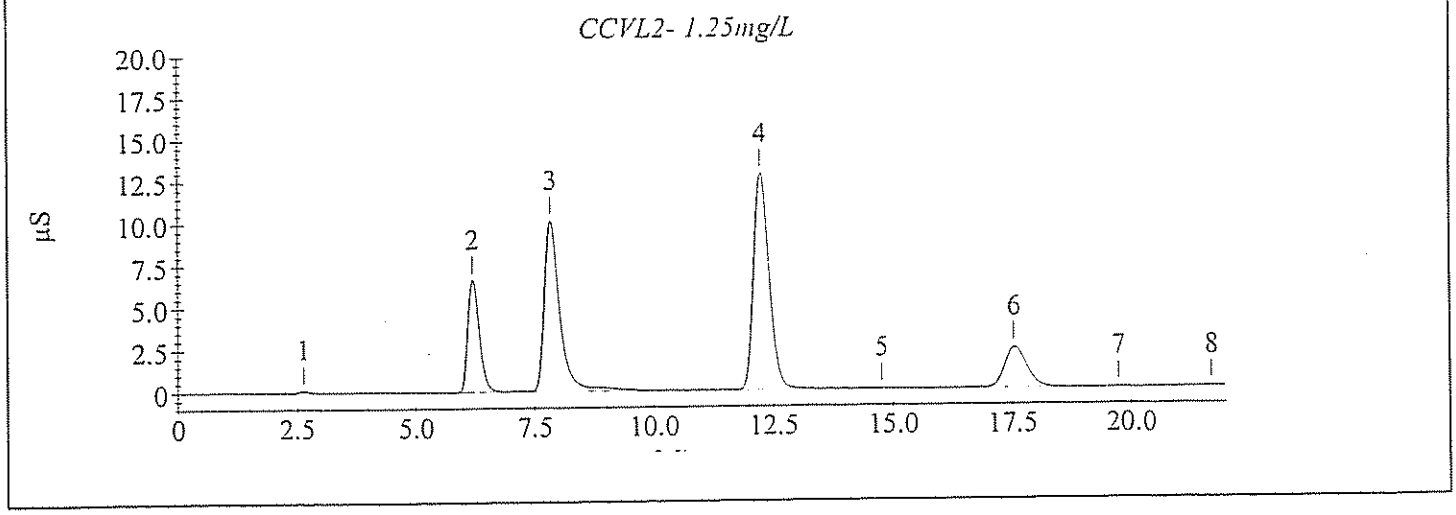
Sample Analysis Report

Sample Name : CCVL2- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__028.DXD

Method File Name : h:\icdata\methods\method 300\0903181-300-0.met
Date Time Collected : 3/31/09 3:49:59 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	18628	1180
2	Chloride	6.20	1.230	1109339	65647
3	Nitrite-N Bromide	7.83	1.245	2254212	100462
4	Nitrate-N	12.23	1.220	2921807	127962
5	Phosphate-P	14.77	0.054	4986	323
6	Sulfate	17.53	1.085	783102	23914



Method Information : Select Module(s)

System Name : DX 500
System Number : 1
Method Type : Ion Chromatography
Column :
Analyst :
Comment : (null)

CD20 Timed Events

Module Name : CD20
Module Serial Number :
SRS Current : 100 mA
Temperature Compensation : 1.7 (% / °C)
Cell Temperature : 35 °C

Time	Range (µS)	Offset	Mark	TTL1	TTL2	Relay1	Relay2	Collect
Init	10.000			Low	Low	Open	Open	
0.00	10.000			Low	Low	Open	Open	
2.40	10.000	*		Low	Low	Open	Open	
2.50	10.000			Low	Low	Open	Open	Begin

CD20 Detector Parameters

Detector Type : CD20
Data collection time (minutes) : 22.00
Data Collection Rate : 5.00
Real time plot scale maximum (µS) : 20.000
Real time plot scale minimum (µS) : -1.000

CD20 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 20.00
Peak threshold : 0.50
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

CD20 Smoothing Parameters

Filter Type : No filter

CD20 Report Data

Report Format File : C:\PeakNet\method\DEFAULT.RPT
Print Sample Analysis : No
Print Calibration Update : No
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

CD20 Integration Data Events

CD20 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units :
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

CD20 Component Identification Table

Component	Retention	Tolerance	Reference
Fluoride	3.77 min	0.50 min	
Chloride	6.30 min	0.50 min	
Nitrite-N	8.10 min	0.50 min	
Bromide	10.30 min	0.50 min	
Nitrate-N	11.57 min	0.50 min	
Phosphate-P	15.33 min	2.00 min	
Sulfate	17.57 min	0.50 min	

CD20 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Fluoride	3.77 min	0	0
Chloride	6.30 min	0	0
Nitrite-N	8.10 min	0	0
Bromide	10.30 min	0	0
Nitrate-N	11.57 min	0	0
Phosphate-P	15.33 min	0	0
Sulfate	17.57 min	0	0

CD20 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Fluoride	3.77 min	Quadratic	Ignore	Area		0.00
Chloride	6.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrite-N	8.10 min	Linear	Ignore	Area	Fluoride	0.00
Bromide	10.30 min	Linear	Ignore	Area	Fluoride	0.00
Nitrate-N	11.57 min	Linear	Ignore	Area	Fluoride	0.00
Phosphate-P	15.33 min	Linear	Ignore	Area	Fluoride	0.00
Sulfate	17.57 min	Linear	Ignore	Area	Fluoride	0.00

CD20 Component = Fluoride Levels Table

Retention Time : 3.77 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	3.15815e+006
2	5.00	6.62291e+006
3	10.00	1.42856e+007
4	15.00	2.21646e+007
5	25.00	3.34462e+007
6	50.00	6.13006e+007

CD20 Component = Chloride Levels Table

Retention Time : 6.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	2.34091e+006
2	5.00	4.89685e+006
3	10.00	1.13979e+007
4	15.00	1.89895e+007
5	25.00	3.15239e+007
6	50.00	6.72952e+007

CD20 Component = Nitrite-N Levels Table

Retention Time : 8.10 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	4.6136e+006
2	5.00	9.39187e+006
3	10.00	1.96921e+007
4	15.00	3.01176e+007
5	25.00	2.88199e+007
6	50.00	6.67587e+007

CD20 Component = Bromide Levels Table

Retention Time : 10.30 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	945000
2	5.00	2.00041e+006
3	10.00	4.43449e+006
4	15.00	7.26943e+006
5	25.00	1.25028e+007
6	50.00	2.80553e+007

CD20 Component = Nitrate-N Levels Table

Retention Time : 11.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	6.14169e+006
2	5.00	1.34767e+007
3	10.00	3.11935e+007
4	15.00	4.97951e+007
5	25.00	8.26983e+007
6	50.00	1.73831e+008

CD20 Component = Phosphate-P Levels Table

Retention Time : 15.33 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.36602e+006
2	5.00	3.00592e+006
3	10.00	7.23811e+006
4	15.00	1.23546e+007
5	25.00	2.24377e+007
6	50.00	5.21304e+007

CD20 Component = Sulfate Levels Table

Retention Time : 17.57 min
Amount units :
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	2.50	1.86363e+006
2	5.00	3.65608e+006
3	10.00	8.17294e+006
4	15.00	1.31745e+007
5	25.00	2.26888e+007
6	50.00	5.00818e+007

CD20 XY Data Parameters

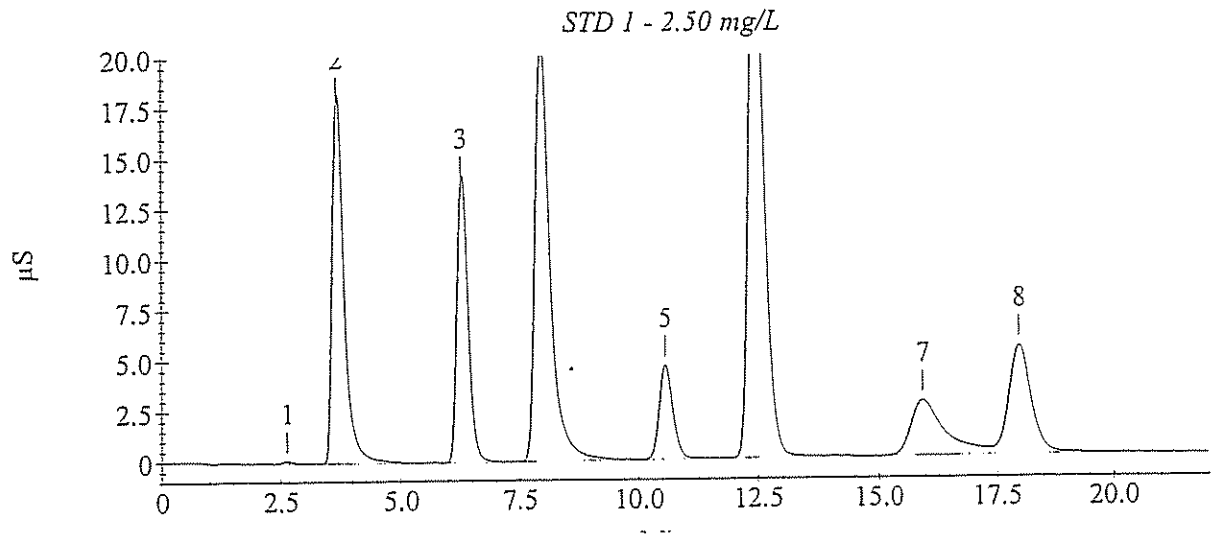
Calibration Update Report

Sample Name : STD 1 - 2.50 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__011.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:01:12 PM
Calibration Date : 3/19/09 10:11:19 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	3196333	3158146	3158146
3	Chloride	6.27	2172090	2340913	2340913
4	Nitrite-N	7.97	4502370	4613604	4613604
5	Bromide	10.57	944915	945000	945000
6	Nitrate-N	12.47	6079699	6141691	6141691
7	Phosphate-P	15.93	1919795	1366019	1366019
8	Sulfate	17.97	1511958	1863633	1863633



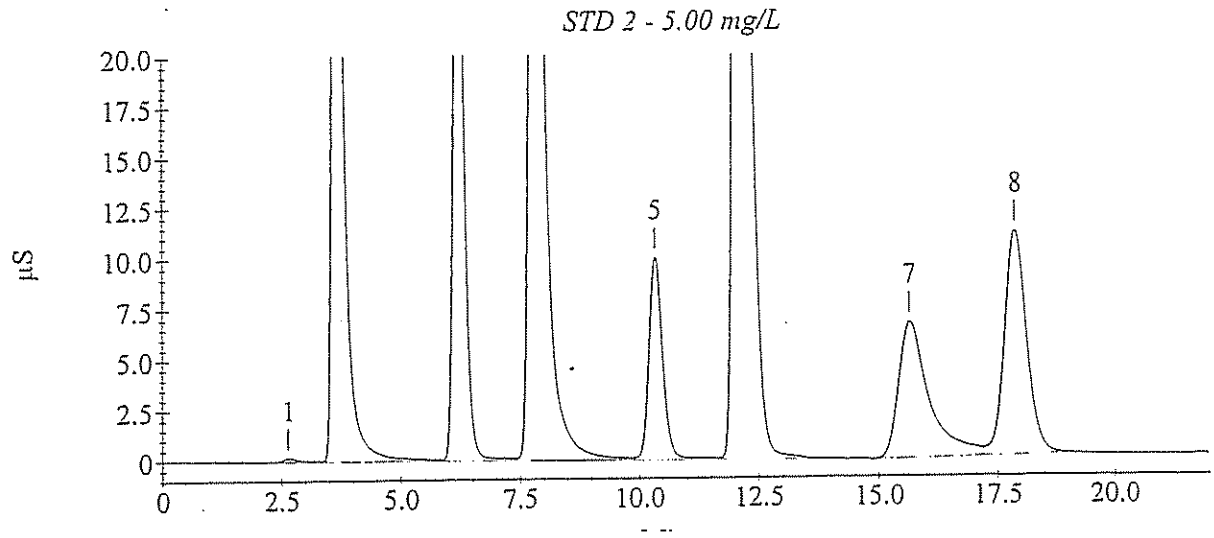
Calibration Update Report

Sample Name : STD 2 - 5.00 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__012.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:26:15 PM
Calibration Date : 3/19/09 10:11:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.67	6799090	6622907	6622907
3	Chloride	6.23	4744908	4896855	4896855
4	Nitrite-N	7.83	9326874	9391873	9391873
5	Bromide	10.33	1941879	2000411	2000411
6	Nitrate-N	12.13	13478598	13476689	13476689
7	Phosphate-P	15.63	4103184	3005917	3005917
8	Sulfate	17.87	3101926	3656077	3656077



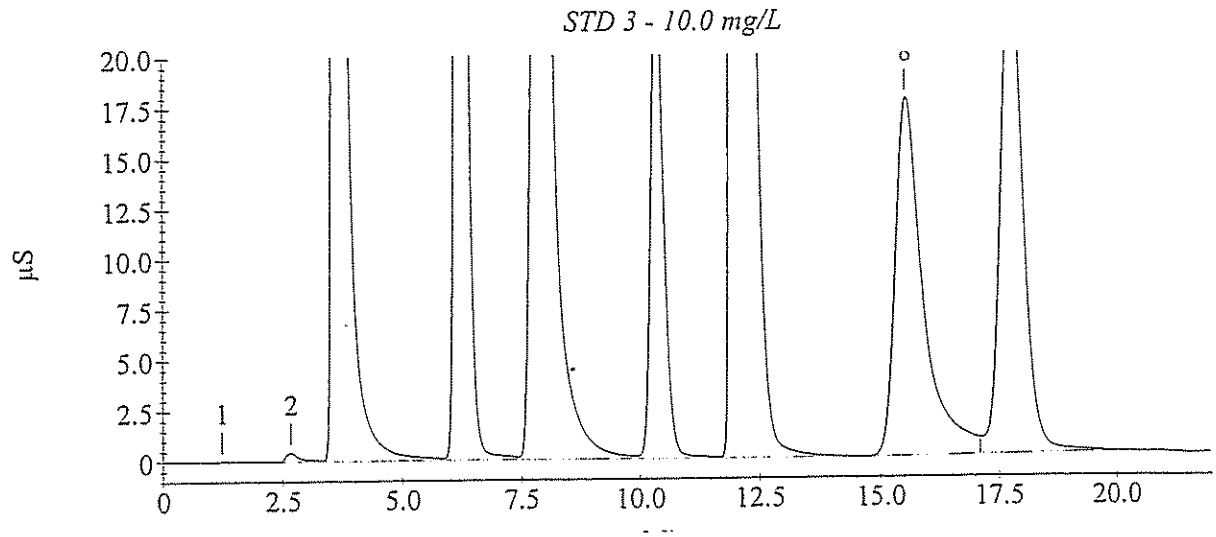
Calibration Update Report

Sample Name : STD 3 - 10.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__013.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 4:51:19 PM
Calibration Date : 3/19/09 10:12:26 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
3	Fluoride	3.70	14197049	14285628	14285628
4	Chloride	6.23	10917702	11397868	11397868
5	Nitrite-N	7.97	18846586	19692133	19692133
6	Bromide	10.37	4224476	4434487	4434487
7	Nitrate-N	12.07	29765135	31193530	31193530
8	Phosphate-P	15.53	9260527	7238114	7238114
9	Sulfate	17.77	6779202	8172944	8172944



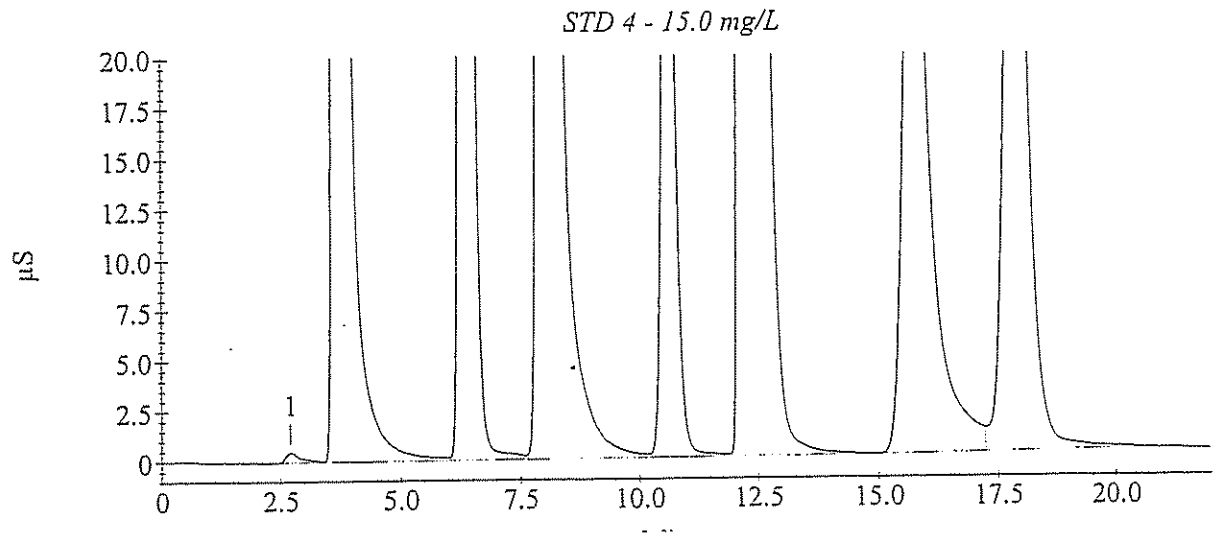
Calibration Update Report

Sample Name : STD 4 - 15.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__014.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:16:22 PM
Calibration Date : 3/19/09 10:12:53 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	22358309	22164612	22164612
3	Chloride	6.40	18190071	18989499	18989499
4	Nitrite-N	8.03	28434383	30117586	30117586
5	Bromide	10.60	6967382	7269428	7269428
6	Nitrate-N	12.23	46826178	49795080	49795080
7	Phosphate-P	15.73	15093639	12354609	12354609
8	Sulfate	17.87	10793955	13174498	13174498



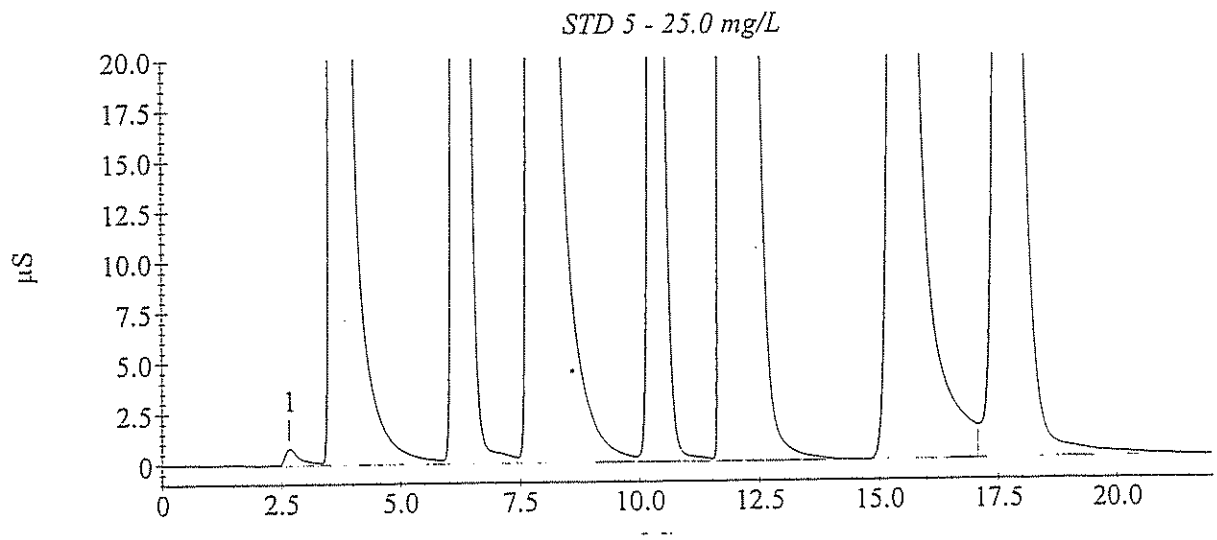
Calibration Update Report

Sample Name : STD 5 - 25.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__015.DXD

Method File Name : H:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 5:41:25 PM
Calibration Date : 3/19/09 10:13:35 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.73	32466619	33446184	33446184
3	Chloride	6.30	30230161	31523897	31523897
4	Nitrite-N	8.03	43008339	45944217	45944217
5	Bromide	10.33	12092529	12502770	12502770
6	Nitrate-N	11.83	79555670	82698295	82698295
7	Phosphate-P	15.47	27314683	22437677	22437677
8	Sulfate	17.70	19585760	22688766	22688766



Calibration Update Report

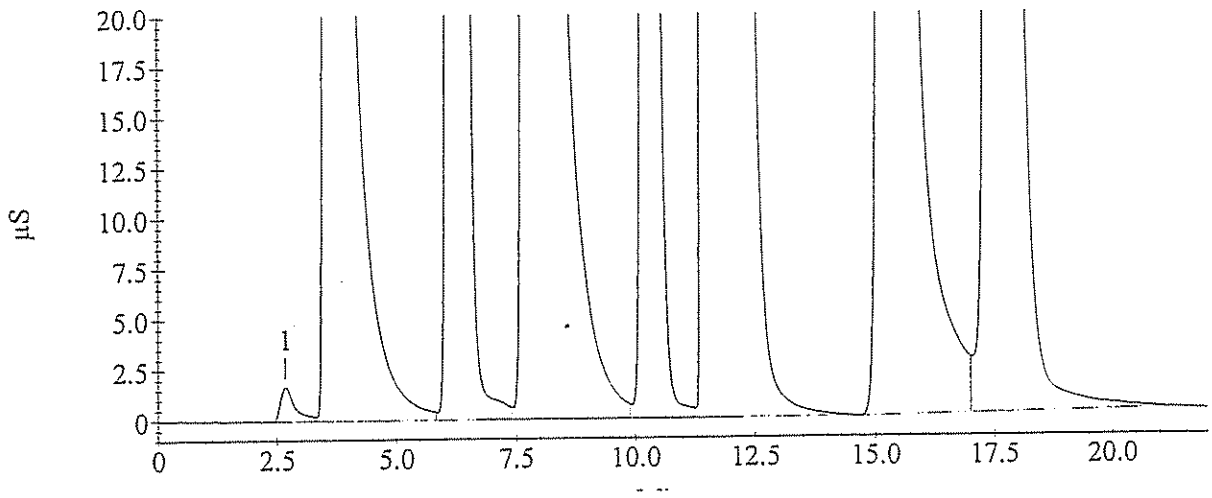
Sample Name : STD 6 - 50.0 mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Schedule File Name : h:\icdata\schedules\090318-300.sch
Date Time Collected : 3/18/09 6:06:29 PM
Calibration Date : 3/19/09 10:14:21 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	Fluoride	3.77	59562057	61300580	61300580
3	Chloride	6.30	64997521	67295213	67295213
4	Nitrite-N	8.10	77822760	84216623	84216623
5	Bromide	10.30	27128528	28055333	28055333
6	Nitrate-N	11.57	168531288	173831497	173831497
7	Phosphate-P	15.33	58470285	52130379	52130379
8	Sulfate	17.57	42094125	50081829	50081829

STD 6 - 50.0 mg/L



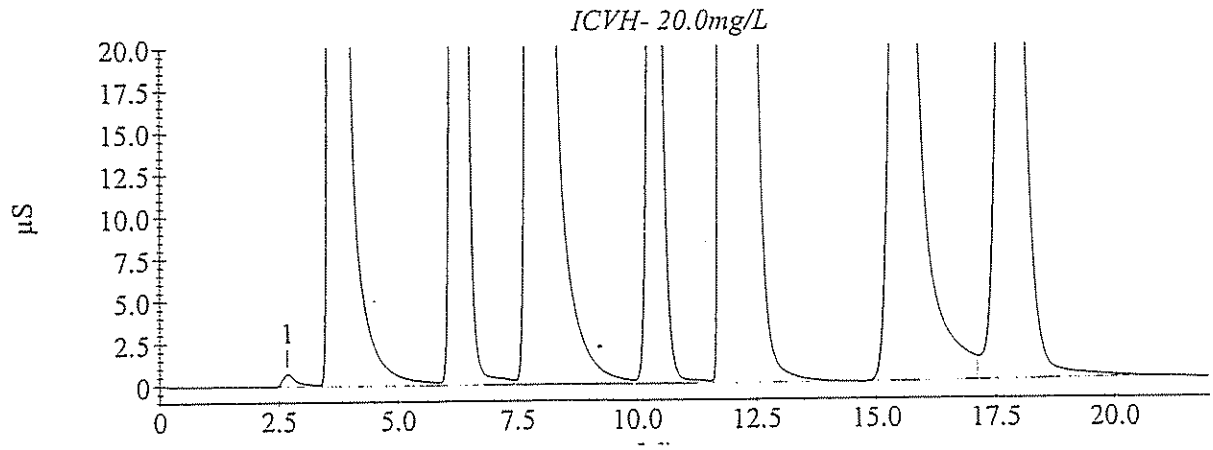
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__018.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/18/09 6:56:48 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.853	28908967	1468246
3	Chloride	6.30	20.403	26159770	1607849
4	Nitrite-N	8.03	26.346	37411211	1341677
5	Bromide	10.37	19.702	10227679	568903
6	Nitrate-N	11.90	21.920	73689596	2518243
7	Phosphate-P	15.53	19.467	18102759	494475
8	Sulfate	17.77	19.921	18657155	567511



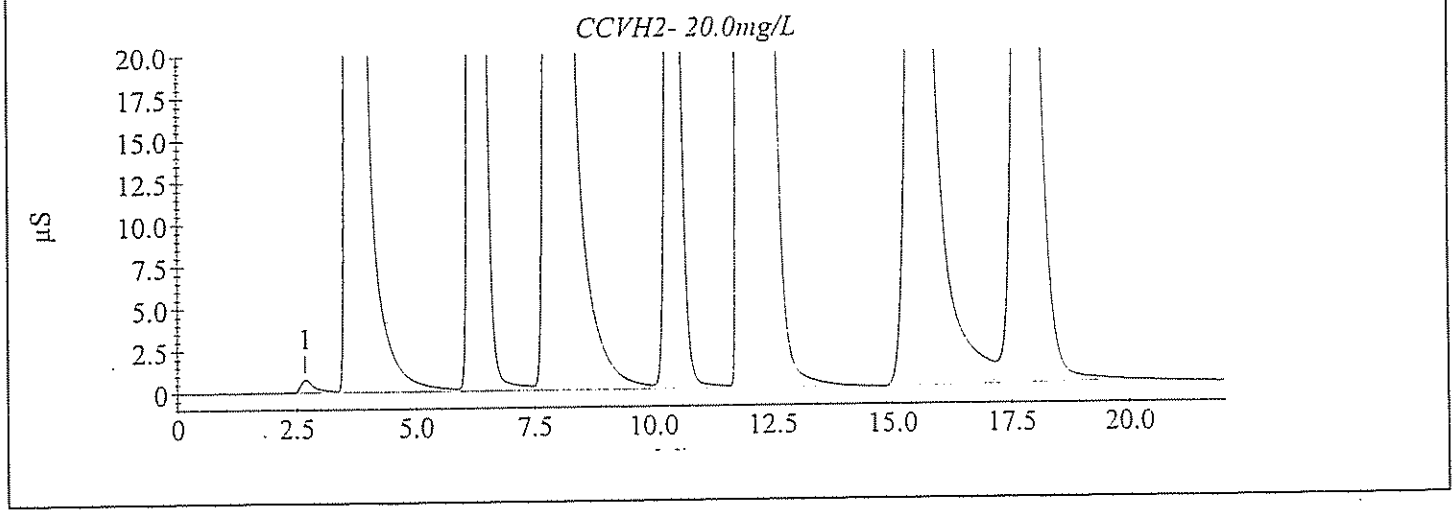
Sample Analysis Report

Sample Name : CCVH2- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__044.DXD

Method File Name : H:\ICDATA\METHODS\METHOD 300\090318H-300-0.met
Date Time Collected : 3/19/09 5:49:27 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.73	20.874	28935388	1455707
3	Chloride	6.30	20.412	26172005	1551110
4	Nitrite-N	8.07	26.020	36991645	1543132
5	Bromide	10.40	19.807	10288060	564487
6	Nitrate-N	11.93	22.016	74029796	2501695
7	Phosphate-P	15.53	19.704	18359508	493241
8	Sulfate	17.80	20.033	18771939	577102



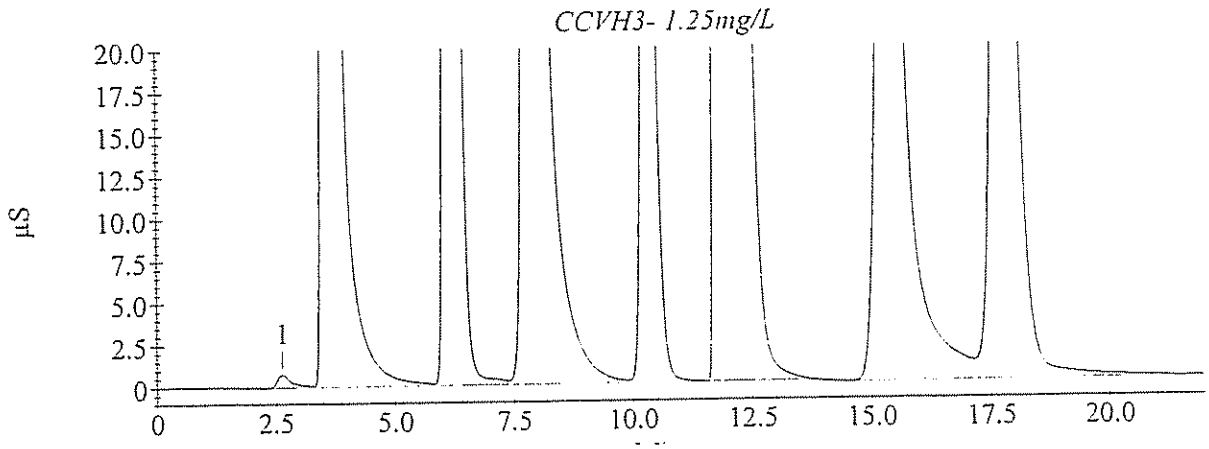
Sample Analysis Report

Sample Name : CCVH3- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__057.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/19/09 1:09:56 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.67	20.712	28730755	1445462
3	Chloride	6.20	20.346	26082416	1471543
4	Nitrite-N	7.97	25.661	36530080	1570740
5	Bromide	10.33	19.929	10358407	568967
6	Nitrate-N	11.87	22.289	74994103	2488826
7	Phosphate-P	15.37	20.079	18765317	501765
8	Sulfate	17.77	20.171	18913100	577012



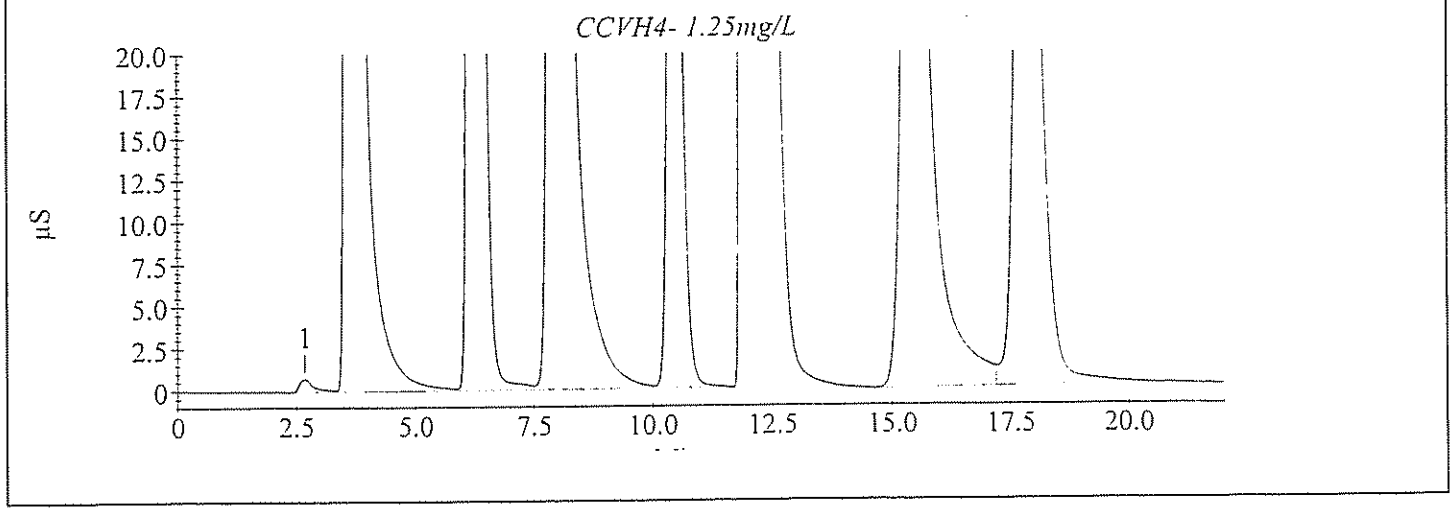
Sample Analysis Report

Sample Name : CCVH4- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__070.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/19/09 6:35:59 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	21.091	29207590	1425211
3	Chloride	6.30	20.517	26317478	1437686
4	Nitrite-N	8.07	25.888	36821309	1587946
5	Bromide	10.47	19.936	10362459	573695
6	Nitrate-N	12.00	22.340	75176502	2489873
7	Phosphate-P	15.47	20.058	18743158	496916
8	Sulfate	17.83	20.179	18921965	580441



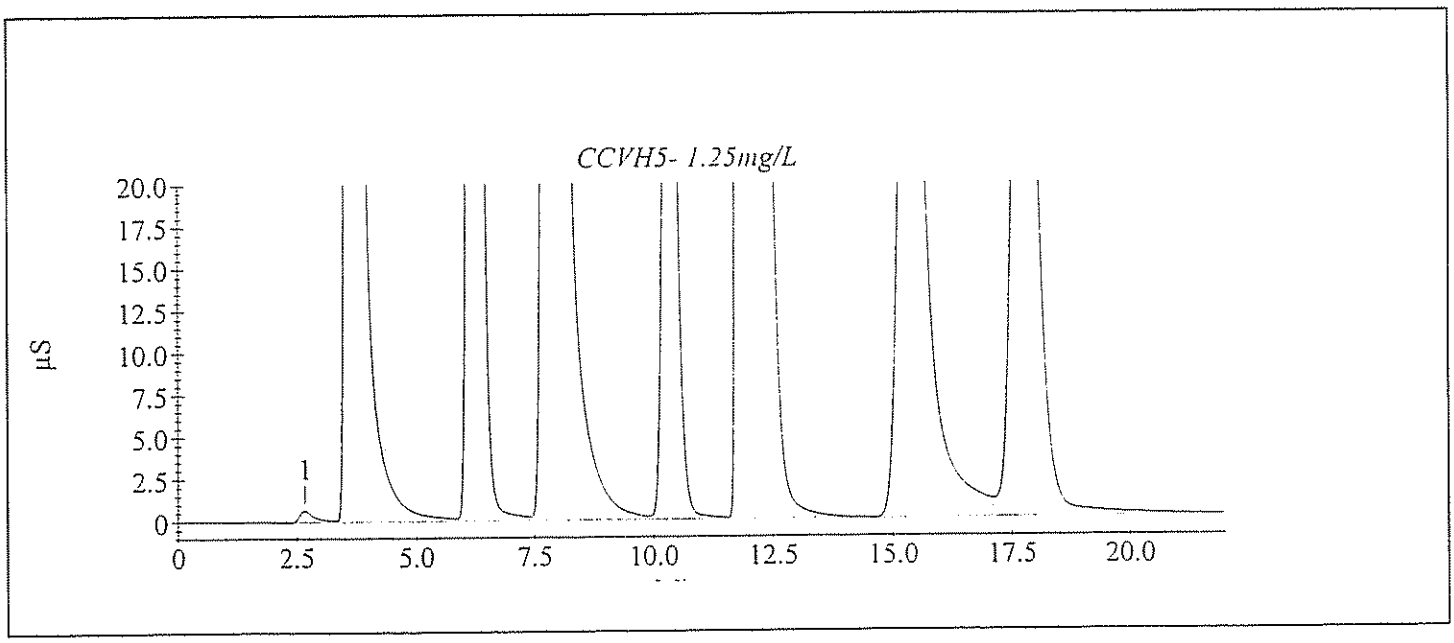
Sample Analysis Report

Sample Name : CCVH5- 1.25mg/L
Data File Name : I:\ICDATA\IC500\090318\090318__084.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/20/09 12:27:03 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.70	19.330	26977573	1379507
3	Chloride	6.23	19.193	24495378	1455009
4	Nitrite-N	8.00	26.189	37209497	1337235
5	Bromide	10.33	18.568	9575713	521131
6	Nitrate-N	11.90	19.539	65265056	2270088
7	Phosphate-P	15.33	18.774	17351243	475868
8	Sulfate	17.73	18.733	17441575	529830



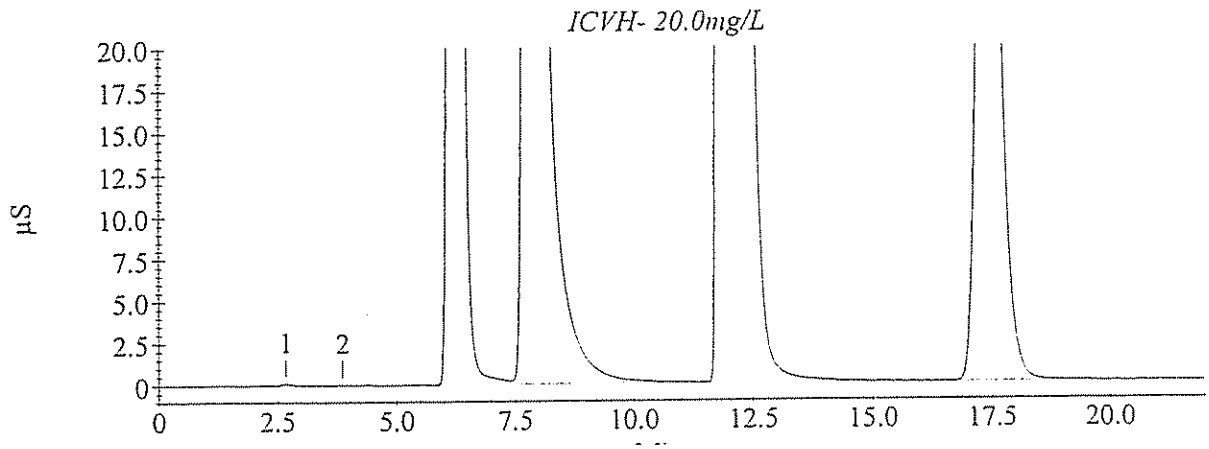
Sample Analysis Report

Sample Name : ICVH- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__003.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/30/09 5:26:21 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
2	Fluoride	3.87	0.626	5039	330
3	Chloride	6.27	20.279	25989547	1608966
4	Nitrite-N	7.87	26.713	37883822	1626345
5	Bromide Nitrate-N	11.90	20.193	67577828	2299168
6	Phosphate-P Sulfate	17.40	17.387	16064747	524215



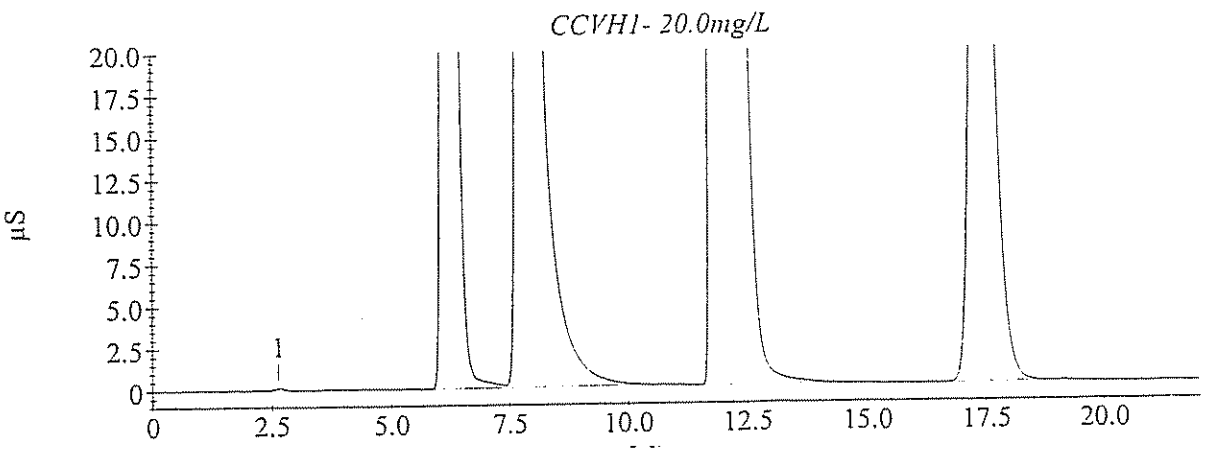
Sample Analysis Report

Sample Name : CCVH1- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__016.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/30/09 10:50:36 PM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	18172	1292
2	Chloride	6.27	20.229	25921103	1597396
3	Nitrite-N	7.87	26.705	37873038	1622801
4	Bromide Nitrate-N	11.90	20.204	67615911	2304509
5	Phosphate-P Sulfate	17.40	17.340	16016482	523187



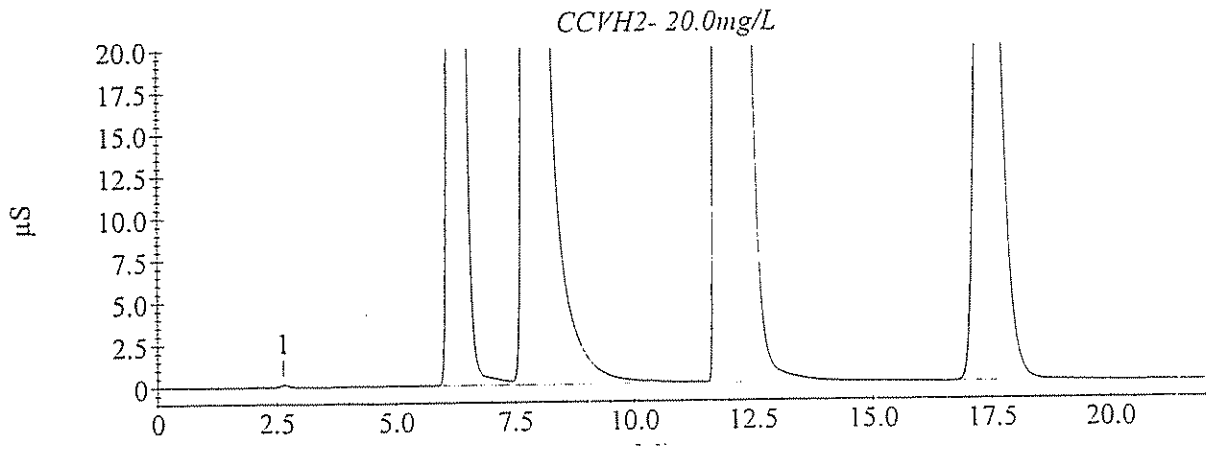
Sample Analysis Report

Sample Name : CCVH2- 20.0mg/L
Data File Name : I:\ICDATA\IC500\090330\090330__029.DXD

Method File Name : h:\icdata\methods\method 300\090318h-300-0.met
Date Time Collected : 3/31/09 4:14:57 AM
System Operator : JCSA

Peak Information : All Components

Peak #	Component Name	Peak Retention Time	Component Amount	Peak Area	Peak Height
1		2.63	0.000	19609	1412
2	Chloride	6.27	20.173	25843283	1543562
3	Nitrite-N	7.87	26.688	37851508	1571017
4	Bromide Nitrate-N	11.87	20.054	67087932	2282156
5	Phosphate-P Sulfate	17.40	17.311	15986564	520681



Form 3 MD/MS

E300 CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

GPL Work-Order: 903125

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Chloride	E300.0	OU1-52GW50-0309	7.00	7.00	0.086	15%
Nitrite-N	E300.0	OU1-52GW50-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-52GW50-0309	BQL	BQL	N/C	15%
Chloride	E300.0	OU1-52GW51-0309	6.45	6.42	0.482	15%
Nitrite-N	E300.0	OU1-52GW51-0309	BQL	BQL	N/C	15%
Nitrate-N	E300.0	OU1-52GW51-0309	BQL	BQL	N/C	15%

RPD - 0 out of 6 outside control limits

Analyte	Method	Sample ID	Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
Chloride	E300.0	OU1-52GW50-0309	7.00	17.2	10.0	102	90 - 110%
Nitrite-N	E300.0	OU1-52GW50-0309	0.00	1.35	1.00	135*	90 - 110%
Nitrate-N	E300.0	OU1-52GW50-0309	0.00	0.995	1.00	99.5	90 - 110%
Chloride	E300.0	OU1-52GW51-0309	6.45	16.1	10.0	97.0	90 - 110%
Nitrite-N	E300.0	OU1-52GW51-0309	0.00	1.16	1.00	116*	90 - 110%
Nitrate-N	E300.0	OU1-52GW51-0309	0.00	0.954	1.00	95.4	90 - 110%

Recovery - 2 out of 6 outside control limits

General Chemistry Form 2

E300.0 CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903125 STD Solution ID: 45325/45405

3/18/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	Chloride	1.25	1.23	98.4	90 - 110%
	Nitrite-N	1.25	1.16	92.6	90 - 110%
	Nitrate-N	1.25	1.30	104	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL3	Chloride	1.25	1.25	100	90 - 110%
	Nitrite-N	1.25	1.21	97.0	90 - 110%
	Nitrate-N	1.25	1.33	106	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL4	Chloride	1.25	1.24	99.3	90 - 110%
	Nitrite-N	1.25	1.21	96.5	90 - 110%
	Nitrate-N	1.25	1.31	105	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL5	Chloride	1.25	1.23	98.4	90 - 110%
	Nitrite-N	1.25	1.25	100	90 - 110%
	Nitrate-N	1.25	1.21	96.9	90 - 110%

3/30/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVL	Chloride	1.25	1.24	98.9	90 - 110%
	Nitrite-N	1.25	1.23	98.3	90 - 110%
	Nitrate-N	1.25	1.22	97.7	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL1	Chloride	1.25	1.26	101	90 - 110%
	Nitrite-N	1.25	1.25	100	90 - 110%
	Nitrate-N	1.25	1.21	97.0	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVL2	Chloride	1.25	1.23	98.4	90 - 110%
	Nitrite-N	1.25	1.25	100	90 - 110%
	Nitrate-N	1.25	1.22	97.6	90 - 110%

3/18/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	Chloride	20.0	20.4	102	90 - 110%
	Nitrate-N	20.0	22.0	110	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH3	Chloride	20.0	20.3	102	90 - 110%
	Nitrate-N	20.0	22.3	111*	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH4	Chloride	20.0	20.5	103	90 - 110%
	Nitrate-N	20.0	22.3	112*	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH5	Chloride	20.0	19.2	96.0	90 - 110%
	Nitrate-N	20.0	19.5	97.7	90 - 110%

3/30/2009

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICVH	Chloride	20.0	20.3	101	90 - 110%
	Nitrate-N	20.0	20.2	101	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH1	Chloride	20.0	20.2	101	90 - 110%
	Nitrate-N	20.0	20.2	101	90 - 110%

Standard ID	Analyte	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCVH2	Chloride	20.0	20.2	101	90 - 110%
	Nitrate-N	20.0	20.1	100	90 - 110%

General Chemistry Form VII

E300 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: GPL Laboratories Client: CH2M Hill

QC Sample ID: #45307/#44035

LCSL (3/18/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	143	90.5	85 - 115%
Nitrite-N	732	670	91.5	85 - 115%
Nitrate-N	187	167	89.2	85 - 115%

Recovery - 0 out of 3 outside Control Limits

LCSH (3/18/09)

Analyte	LCS True Value (mg/L)	LCS Concentration (mg/L)	LCS %Recovery	Recovery Control Limits
Chloride	158	148	93.7	85 - 115%
Nitrate-N	187	176	94.2	85 - 115%

Recovery - 0 out of 2 outside Control Limits

SAMPLE DATA PACKAGE

RSK I75

GPL Laboratories, LLLP

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
OU1-52GW45-0309MSD

Lab Name : GPL Laboratories SDG NO : 903125 Method : GPL-RSK-175

Lab Code : GPL Lab Sample ID : 903125-010-103-1/2MSD Matrix : WATER Analysis Date : 04/01/2009

Compound	Spike Added (ug/L)		CONCENTRATION (ug/L)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Ethane	31	31	0.0	20	21	65 *	68 *	5	25	80-120
Ethene	29	29	0.0	37	35	128 *	121 *	6	25	80-120
Methane	16	16	13	33	37	125 *	150 *	18	25	80-120

* Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 3 Outside Limit
Spike Recovery : 6 Out of 6 outside limit

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108894

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	G262690.D	SDG NO :	903125
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108894
GC Column :	ID. RTX_VC	Time Analyzed :	11:29

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-52GW40-0309	903125-003-089-1/2	G262696.D	14:02
OU1-52GW50-0309	903125-001-085-1/2	G262694.D	13:32
OU1-52GW51-0309	903125-002-087-1/2	G262695.D	13:47

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108917

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	G262700.D	SDG NO :	903125
Date Analyzed	03/30/2009	Lab Sample ID :	BLK108917
GC Column :	ID. RTX_VC	Time Analyzed :	08:10

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-52GW35-0309	903125-012-107-1/2	G262716.D	13:38
OU1-52GW35-0309DL	903125-012-108-2/2	G262719.D	14:21
OU1-52GW36-0309	903125-008-099-1/2	G262712.D	12:04
OU1-52GW37-0309	903125-006-095-1/2	G262707.D	10:23
OU1-52GW37-0309DL	903125-006-096-2/2	G262709.D	10:59
OU1-52GW40-0309DL	903125-003-090-2/2	G262703.D	09:22
OU1-52GW41-0309	903125-007-097-1/2	G262708.D	10:43
OU1-52GW41-0309DL	903125-007-098-2/2	G262711.D	11:43
OU1-52GW45-0309	903125-010-103-1/2	G262714.D	13:10
OU1-52GW50-0309DL	903125-001-086-2/2	G262701.D	08:52
OU1-52GW51-0309DL	903125-002-088-2/2	G262702.D	09:06
OU1-52GW52-0309	903125-009-101-1/2	G262713.D	12:55
OU1-52GW53-0309	903125-013-109-1/2	G262717.D	13:52
OU1-52GW53-0309DL	903125-013-110-2/2	G262720.D	14:35
OU1-52GW60-0309	903125-011-105-1/2	G262715.D	13:24
OU1-52GW60-0309DL	903125-011-106-2/2	G262718.D	14:06
OU1-52GW69-0309	903125-004-091-1/2	G262704.D	09:36
OU1-52GW69-0309DL	903125-004-092-2/2	G262706.D	10:09
OU1-52GW70-0309	903125-005-093-1/2	G262705.D	09:50

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108918

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	G262722.D	SDG NO :	903125
Date Analyzed	03/30/2009	Lab Sample ID :	BLK108918
GC Column :	ID. RTX_VC	Time Analyzed :	15:07

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-52GW34-0309	903125-014-111-1/2	G262723.D	15:22
OU1-52GW34-0309DL	903125-014-112-2/2	G262725.D	15:52
OU1-52GW41P-0309	903125-015-113-1/2	G262724.D	15:36
OU1-52GW41P-0309DL	903125-015-114-2/2	G262726.D	16:06

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108919

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	G262758.D	SDG NO :	903125
Date Analyzed	04/01/2009	Lab Sample ID :	BLK108919
GC Column :	ID. RTX_VC	Time Analyzed :	07:51

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
OU1-52GW45-0309MS	903125-010-103-1/2MS	G262759.D	08:11
OU1-52GW45-0309MSD	903125-010-103-1/2MSD	G262760.D	08:26

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108894

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108894
Sample Volume :	10	Lab File ID :	G262690.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108917

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108917
Sample Volume :	10	Lab File ID :	G262700.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108918

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108918
Sample Volume :	10	Lab File ID :	G262722.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK108919

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	BLK108919
Sample Volume :	10	Lab File ID :	G262758.D
Level :	Low	Date Received	
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	3.3	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-014-111-1/2
Sample Volume :	10	Lab File ID :	G262723.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	160	E

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW34-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-014-112-2/2
Sample Volume :	1	Lab File ID :	G262725.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	96	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-012-107-1/2
Sample Volume :	10	Lab File ID :	G262716.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	900	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW35-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-012-108-2/2
Sample Volume :	.1	Lab File ID :	G262719.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	1200	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW36-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-008-099-1/2
Sample Volume :	10	Lab File ID :	G262712.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	22	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-006-095-1/2
Sample Volume :	10	Lab File ID :	G262707.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	250	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-006-096-2/2
Sample Volume :	20	Lab File ID :	G262709.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	20
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	120	U
74-85-1	Ethene	120	U
74-82-8	Methane	200	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-003-089-1/2
Sample Volume :	10	Lab File ID :	G262696.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	160	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-003-090-2/2
Sample Volume :	1	Lab File ID :	G262703.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	190	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-007-097-1/2
Sample Volume :	10	Lab File ID :	G262708.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	73	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-007-098-2/2
Sample Volume :	1	Lab File ID :	G262711.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	61	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-015-113-1/2
Sample Volume :	10	Lab File ID :	G262724.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	77	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41P-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-015-114-2/2
Sample Volume :	1	Lab File ID :	G262726.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	64	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW45-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-010-103-1/2
Sample Volume :	10	Lab File ID :	G262714.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	13	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW45-0309MS

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-010-103-1/2MS
Sample Volume :	10	Lab File ID :	G262759.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	20	
74-85-1	Ethene	37	
74-82-8	Methane	33	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW45-0309MSD

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-010-103-1/2MSD
Sample Volume :	10	Lab File ID :	G262760.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	04/01/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	21	
74-85-1	Ethene	35	
74-82-8	Methane	37	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-085-1/2
Sample Volume :	10	Lab File ID :	G262694.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	86	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-086-2/2
Sample Volume :	1	Lab File ID :	G262701.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	93	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-087-1/2
Sample Volume :	10	Lab File ID :	G262695.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	110	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-088-2/2
Sample Volume :	1	Lab File ID :	G262702.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	95	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW52-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-009-101-1/2
Sample Volume :	10	Lab File ID :	G262713.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	33	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-013-109-1/2
Sample Volume :	10	Lab File ID :	G262717.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	110	E
74-82-8	Methane	400	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-013-110-2/2
Sample Volume :	.1	Lab File ID :	G262720.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	100
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	620	U
74-85-1	Ethene	580	U
74-82-8	Methane	490	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW60-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-011-105-1/2
Sample Volume :	10	Lab File ID :	G262715.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	150	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW60-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-011-106-2/2
Sample Volume :	1	Lab File ID :	G262718.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	130	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-004-091-1/2
Sample Volume :	10	Lab File ID :	G262704.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	120	E

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-004-092-2/2
Sample Volume :	1	Lab File ID :	G262706.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	62	U
74-85-1	Ethene	58	U
74-82-8	Methane	92	

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-093-1/2
Sample Volume :	10	Lab File ID :	G262705.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/30/2009
GC Column :	ID. RTX_VC	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-84-0	Ethane	6.2	U
74-85-1	Ethene	5.8	U
74-82-8	Methane	28	

Response Factor Report GC-G

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009

Calibration Files
1 =G262685.D 2 =G262686.D 10 =G262689.D
5 =G262688.D 4 =G262687.D =

		Compound	1	2	10	5	4	Avg	%RSD
1)	T	Methane	2.216	1.903	1.541	1.696	1.981	1.867 E2	13.96
2)	T	Ethane	3.958	3.168	2.474	2.769	2.815	3.037 E1	18.80
3)	T	Ethylene	4.914	3.707	2.995	3.715	3.755	3.817 E1	18.08

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\032709\G262697.D Vial: 13
Acq On : 27 Mar 2009 14:27 Operator: NK
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	168.193	9.9	99	-0.01
2	T	Ethane	30.370	26.699	12.1	96	0.00
3	T	Ethylene	38.172	35.670	6.6	96	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033009\G262699.D Vial: 2
Acq On : 30 Mar 2009 7:41 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	183.253	1.9	108	0.03
2	T	Ethane	30.370	31.346	-3.2	113	0.03
3	T	Ethylene	38.172	43.608	-14.2	117	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033009\G262710.D Vial: 13
Acq On : 30 Mar 2009 11:15 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	212.108	-13.6	125	0.03
2	T	Ethane	30.370	28.526	6.1	103	0.03
3	T	Ethylene	38.172	39.828	-4.3	107	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033009\G262721.D Vial: 24
Acq On : 30 Mar 2009 14:52 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	219.337	-17.5	129	0.04
2	T	Ethane	30.370	30.609	-0.8	111	0.03
3	T	Ethylene	38.172	43.333	-13.5	117	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\033009\G262727.D Vial: 30
Acq On : 30 Mar 2009 16:20 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:13:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	209.337	-12.1	123	0.03
2	T	Ethane	30.370	31.090	-2.4	112	0.03
3	T	Ethylene	38.172	44.605	-16.9	120	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\040109\G262757.D Vial: 1
Acq On : 1 Apr 2009 7:20 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	223.916	-19.9	132	0.03
2	T	Ethane	30.370	27.853	8.3	101	0.02
3	T	Ethylene	38.172	45.601	-19.5	123	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : H:\GCDATA\G\040109\G262768.D Vial: 12
Acq On : 1 Apr 2009 10:40 Operator: TG
Sample : CCV Inst : GC-G
Misc : CCV Multiplr: 1.00
IntFile : rteint.p

Method : H:\GCDATA\METHODS\G_ICAL\RSK0327.M (RTE Integrator)
Title : DISSOLVED GASES
Last Update : Fri Mar 27 11:23:05 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	Methane	186.741	205.241	-9.9	121	0.03
2	T	Ethane	30.370	25.353	16.5	92	0.03
3	T	Ethylene	38.172	45.223	-18.5	122	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GENERAL CHEMISTRY ANALYSES

GPL Laboratories

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW34-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-014-083-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW35-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-012-081-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW36-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-008-077-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-006-075-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-003-072-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-007-076-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41P-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-015-084-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW45-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-010-079-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-070-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-071-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW52-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-009-078-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-013-082-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW60-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-011-080-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-004-073-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-074-1/1
Sample Volume :		Lab File ID :	1
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/23/2009
GC Column :	ID.	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
18496-25-8	Sulfide	2.0	U

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-001-115-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/29/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.4	
7440-44-0	Total Organic Carbon, Replicate 2	1.4	
7440-44-0	Total Organic Carbon, Replicate 3	1.5	
7440-44-0	Total Organic Carbon, Replicate 4	1.4	
7440-44-0	Total Organic Carbon, Average	1.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-002-116-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/30/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	5.6	
7440-44-0	Total Organic Carbon, Replicate 2	5.3	
7440-44-0	Total Organic Carbon, Replicate 3	5.0	
7440-44-0	Total Organic Carbon, Replicate 4	4.9	
7440-44-0	Total Organic Carbon, Average	5.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-003-117-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/29/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.5	
7440-44-0	Total Organic Carbon, Replicate 2	1.5	
7440-44-0	Total Organic Carbon, Replicate 3	1.5	
7440-44-0	Total Organic Carbon, Replicate 4	1.5	
7440-44-0	Total Organic Carbon, Average	1.5	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-004-118-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/29/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.2	
7440-44-0	Total Organic Carbon, Replicate 2	1.2	
7440-44-0	Total Organic Carbon, Replicate 3	1.2	
7440-44-0	Total Organic Carbon, Replicate 4	1.2	
7440-44-0	Total Organic Carbon, Average	1.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW60-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-011-125-1/1MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/30/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.9	
7440-44-0	Total Organic Carbon, Replicate 2	3.8	
7440-44-0	Total Organic Carbon, Average	3.8	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-005-119-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/29/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.1	
7440-44-0	Total Organic Carbon, Replicate 2	2.1	
7440-44-0	Total Organic Carbon, Replicate 3	2.1	
7440-44-0	Total Organic Carbon, Replicate 4	2.1	
7440-44-0	Total Organic Carbon, Average	2.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-006-120-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/29/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.0	
7440-44-0	Total Organic Carbon, Replicate 2	1.9	
7440-44-0	Total Organic Carbon, Replicate 3	1.9	
7440-44-0	Total Organic Carbon, Replicate 4	2.0	
7440-44-0	Total Organic Carbon, Average	1.9	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-007-121-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/29/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	4.1	
7440-44-0	Total Organic Carbon, Replicate 2	4.1	
7440-44-0	Total Organic Carbon, Replicate 3	4.1	
7440-44-0	Total Organic Carbon, Replicate 4	4.1	
7440-44-0	Total Organic Carbon, Average	4.1	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-007-121-1/1MS
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/29/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	8.6	
7440-44-0	Total Organic Carbon, Replicate 2	8.7	
7440-44-0	Total Organic Carbon, Average	8.7	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW36-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-008-122-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/29/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.4	
7440-44-0	Total Organic Carbon, Replicate 2	1.2	
7440-44-0	Total Organic Carbon, Replicate 3	1.1	
7440-44-0	Total Organic Carbon, Replicate 4	1.1	
7440-44-0	Total Organic Carbon, Average	1.2	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW52-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-009-123-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/29/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.6	
7440-44-0	Total Organic Carbon, Replicate 2	1.3	
7440-44-0	Total Organic Carbon, Replicate 3	1.3	
7440-44-0	Total Organic Carbon, Replicate 4	1.3	
7440-44-0	Total Organic Carbon, Average	1.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW45-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-010-124-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/29/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.4	
7440-44-0	Total Organic Carbon, Replicate 2	1.4	
7440-44-0	Total Organic Carbon, Replicate 3	1.4	
7440-44-0	Total Organic Carbon, Replicate 4	1.4	
7440-44-0	Total Organic Carbon, Average	1.4	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW60-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-011-125-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/30/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	1.7	
7440-44-0	Total Organic Carbon, Replicate 2	1.5	
7440-44-0	Total Organic Carbon, Replicate 3	1.5	
7440-44-0	Total Organic Carbon, Replicate 4	1.5	
7440-44-0	Total Organic Carbon, Average	1.6	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW35-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-012-126-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/30/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	9.9	
7440-44-0	Total Organic Carbon, Replicate 2	10.0	
7440-44-0	Total Organic Carbon, Replicate 3	10.1	
7440-44-0	Total Organic Carbon, Replicate 4	10.1	
7440-44-0	Total Organic Carbon, Average	10.0	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW53-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-013-127-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/30/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	3.1	
7440-44-0	Total Organic Carbon, Replicate 2	2.8	
7440-44-0	Total Organic Carbon, Replicate 3	2.8	
7440-44-0	Total Organic Carbon, Replicate 4	2.8	
7440-44-0	Total Organic Carbon, Average	2.9	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW34-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125-014-128-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/30/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	2.4	
7440-44-0	Total Organic Carbon, Replicate 2	2.3	
7440-44-0	Total Organic Carbon, Replicate 3	2.3	
7440-44-0	Total Organic Carbon, Replicate 4	2.3	
7440-44-0	Total Organic Carbon, Average	2.3	

GPL
Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41P-0309

Lab Name:	GPL Laboratories	Client:	CH2M Hill Inc
Lab Code:	GPL	SAS NO.:	903125
Case No.:		SDG NO.:	903125
Matrix: (Soil/Water)	WATER	Lab Sample ID:	903125903125-015-129-1/1
Sample Volume:		Lab File ID:	1
Level:	Low	Date Received:	3/19/2009
% Moisture:	ID.	Date Analyzed:	3/30/2009
GC Column:		Dilution factor	1
Soil Extract Volume:		Soil Aliquot Volume:	

Concentration Units (mg/L or mg/kg dry weight) : mg/L

CAS NO	COMPOUND		Q
7440-44-0	Total Organic Carbon, Replicate 1	4.1	
7440-44-0	Total Organic Carbon, Replicate 2	4.1	
7440-44-0	Total Organic Carbon, Replicate 3	4.1	
7440-44-0	Total Organic Carbon, Replicate 4	4.1	
7440-44-0	Total Organic Carbon, Average	4.1	

Form 3 MD/MS

WATER GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLP Client: CH2M Hill

GPL Work-Order: 903125

Analyte	Method	Sample ID	Sample Conc. (mg/L)	Duplicate Conc. (mg/L)	RPD	RPD Limit
Sulfide	E376.1	OU1-52GW50-0309	BQL	BQL	N/C	15%

%RPD - 0 out of 1 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/L)	MS Conc. (mg/L)	Spike Added (mg/L)	MS % Recov.	MS Recovery Limits
TOC	SW9060	OU1-52GW41-0309	4.11	8.66	5.00	91.0	85 - 115%
TOC	SW9060	OU1-52GW60-0309	1.55	3.84	2.50	91.6	85 - 115%

% Recovery - 0 out of 2 outside control limits

General Chemistry Form 2

TOTAL ORGANIC CARBON CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903125 STD Solution ID: #43278

3/29/2009

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	31.9	29.6	93	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	34.5	108	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	32.0	100	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	31.8	100	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV4	31.9	33.6	105	90 - 110%

3/30/2009

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
ICV	31.9	32.6	102	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	31.9	33.5	105	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	31.9	33.3	104	90 - 110%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	31.9	33.0	103	90 - 110%

General Chemistry Form 2

SULFIDE CONTINUING CALIBRATION CHECK STANDARD RECOVERY

Lab Name: GPL Laboratories, LLLC Client: CH2M Hill

Work-Order # 903125 STD Solution ID: #44135

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV1	4.00	4.20	105	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV2	4.00	4.20	105	70 - 130%

Standard ID	Control Std True Value (mg/L)	Standard Concentration (mg/L)	Standard %Recovery	Recovery Control Limits
CCV3	4.00	4.20	105	70 - 130%

Qualifier Definitions

CH2M Hill Inc

Work Order: 903125

All Departments

U	Indicates that the compound was analyzed for but not detected
BQL	Below Quantitation Limit

Organics

B	Indicates that the analyte was found in the associated blank as well as in the sample
D	Indicates that the analyte was reported from a diluted analysis
E	Indicates that the concentration detected exceeded the calibration range of the instrument
J	Value is less than the reporting limit but greater than the MDL
P	Indicates that there is greater than 25% difference for detected pesticide/Arochlor results between the two GC columns

Metals

J	Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL
E	Indicates that the reported value is estimated because of the possible presence of interference (i.e. the serial dilution not within control limits)
H	Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit
D	Indicates that the analyte was reported from a diluted analysis
N	Spiked sample recovery not within control limits
*	Duplicate analysis not within control limits

Chain of Custody

CH2M Hill Inc

SDG: 903125

CTO-059

GPL LABORATORIES, LLC

7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731

Contract/Billing Reference:

Page 1 of 2

Project: GW Sampling @ Ball Chuck Point

Client: Citizen Hill

Send Results To: Bill Hennie

Address: 5300 Christiansted St, Suite 101

Phone: (757) 671-6274

Turnaround time:

# of Containers

Container Type

Preservative Used

Type of Analysis Requested

Sample ID#

Date Sampled

Time Sampled

Sample Matrix

Sampler's Initials

Lab Sample ID#

CLIENT COMMENTS

Lab Cooler No.

	Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	Lab Sample ID#	CLIENT COMMENTS	Lab Cooler No.
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Relinquished By: — Date/Time — Received By: — Date/Time

Relinquished By: — Date/Time — Received By: — Date/Time

Relinquished By: — Date/Time — Received By: — Date/Time

Relinquished By: — Date/Time — Received for Laboratory By: — Date/Time

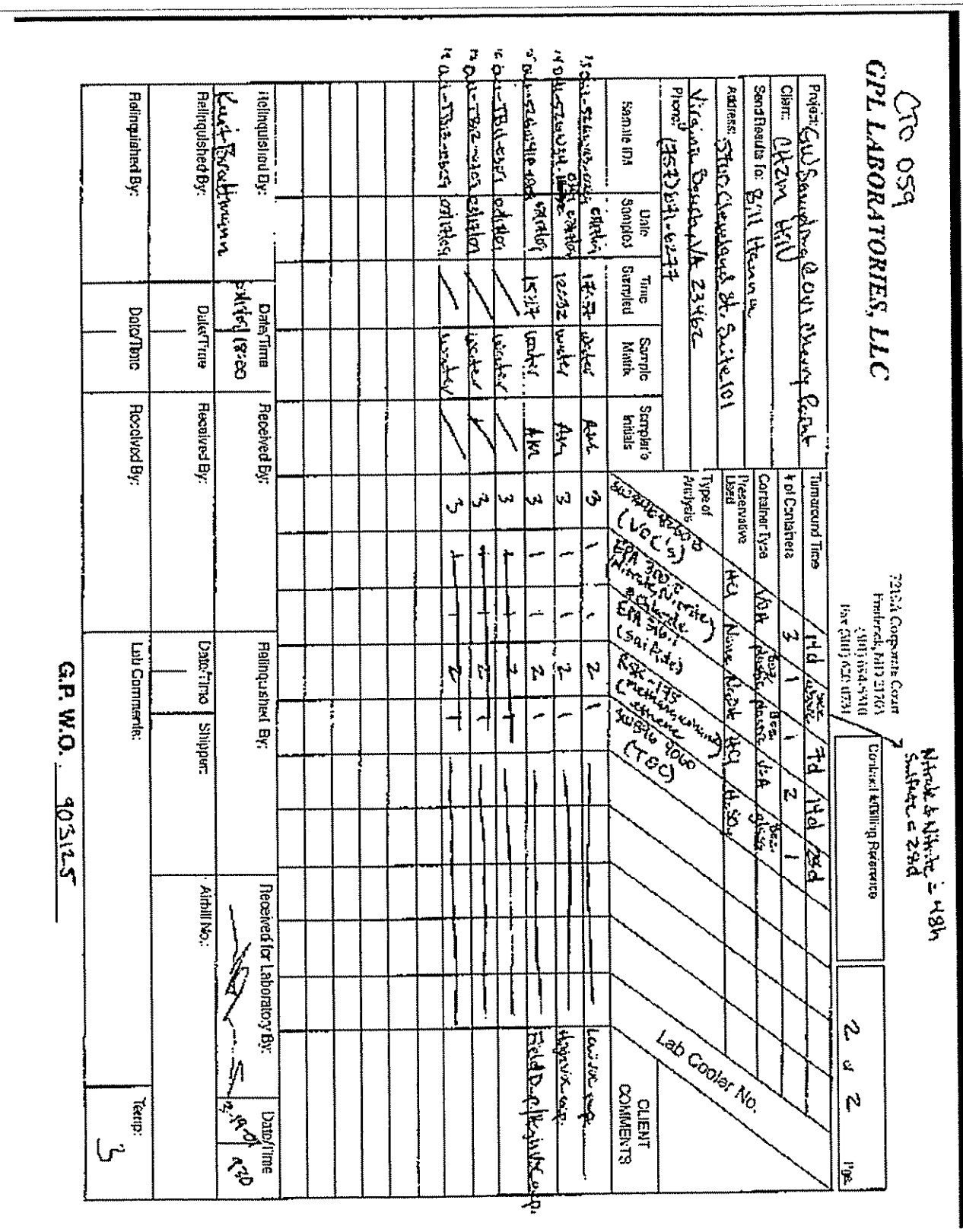
Lab Comments:

Shipper:

Airbill No.:

Temp.

G.P. W.O. 903125


GPL LABORATORIES, LLC
7210A Corporate Court
Frederick, MD 21703
(301) 694-5310
Fax (301) 620-0731
Project:
Client:
Send Results to:
Address:
Phone:
Turnaround Time
# of Containers
Container Type
Preservative Used
Type of Analysis
Contract/Billing Reference
Page
Sample ID#
Date Sampled
Time Sampled
Sample Matrix
Sampler's Initials
Lab Cooler No.
CLIENT COMMENTS
Relinquished By:
Received By:
Date/Time
Relinquished By:
Received By:
Relinquished By:
Received By:
Relinquished by Sampler:
Received for Laboratory By:
Airbill No.:
Lab Comments:
Temp:
G.P. W.O. 903125

MEMORANDUM

CH2MHILL

Corrections to COCs

TO: Garth Herdrich

COPIES: File
EDD
Laboratory Package Multiple SDGs

FROM: Kyle Block
EIS
CH2M HILL

DATE: March 24, 2009

This memo is to document corrections made to entries on the Chains of Custody (COC) and Lab Logins for Cherry Point CTO-059.

The SDG 903062 had the sample below incorrectly labeled on the Lab Login. Please make the appropriate change changes to all deliverables.

Change Sample ID to this:	Incorrectly labeled ID:	Date Sample	Time Sample
OU1 MW50 0309	OU1 MW5D 0309	3/10/2009	12:05

MEMORANDUM

CH: MHILL

Corrections to COCs

TO: Garth Herdrich

COPIES: File
HDD
Laboratory Package Multiple SDG #s

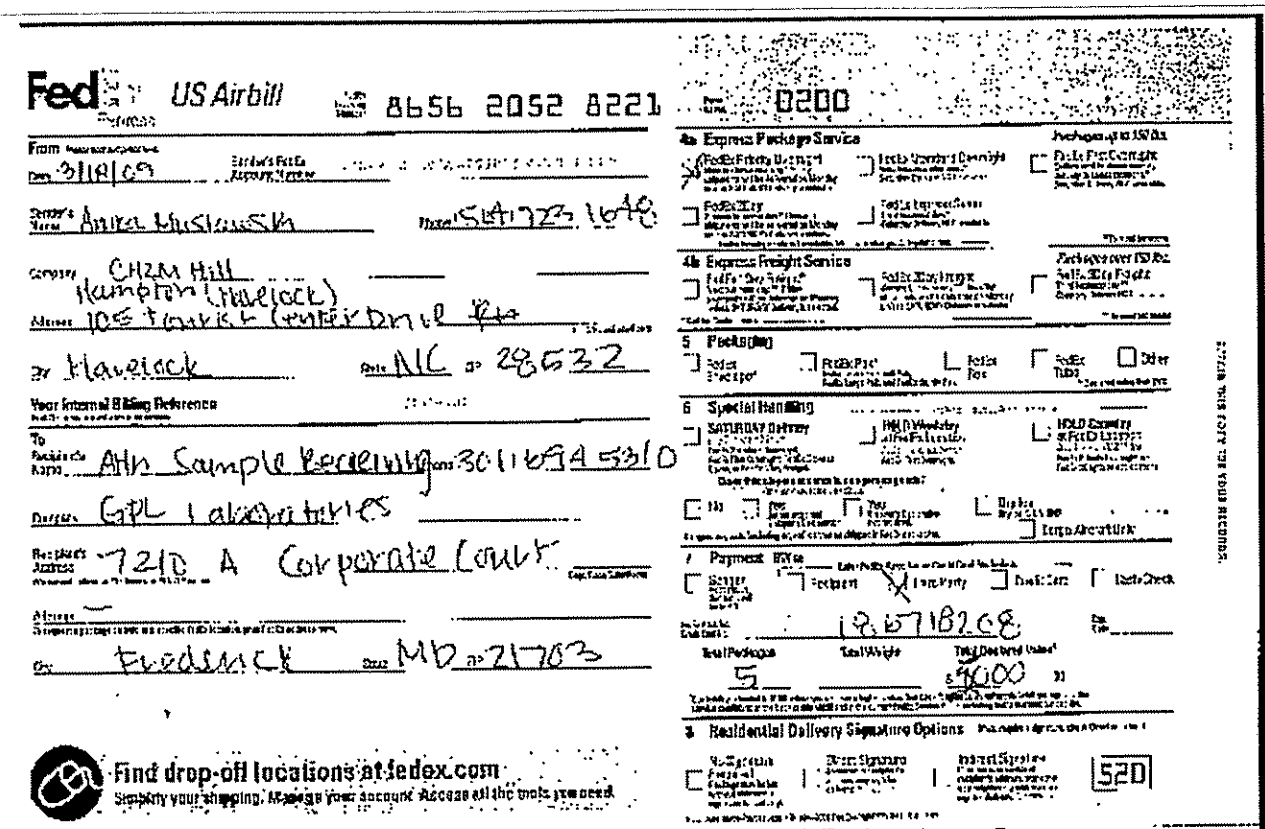
FROM: Kyle Block
EIS
CH2M HILL

DATE: March 24, 2009

This memo is to document corrections made to entries on the Chains of Custody (COC) and Lab Logins for Cherry Point CTO-059.

The SDG 903062 had the sample below incorrectly labeled on the Lab Login. Please make the appropriate change changes to all deliverables.

Change Sample ID to this:	Incorrectly labeled as:	Date Sample	Time Sample
OU1-MW50-0309	OU1 MW5D 0309	3/10/2009	12:05



FedEx US Airbill 8656 2052 8221 0200

From
Date 3/18/09
Sender's Name Anna Mustowska Phone 514 773 1648
Company CH2M Hill Hampton (Havelock)
Address 105 Tourist Center Drive
City Havelock State NC ZIP 28532
Your Internal Billing Reference

To
Recipient's Name Attn Sample Receiving Phone 301 695 4531 0
Company GPL Laboratories
Recipient's Address 7210 A Corporate Court
Address
City Frederick State MD ZIP 21703

Find drop-off locations at fedex.com
Simplify your shipping. Manage your account. Access all the tools you need.

4a Express Package Service
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight
FedEx 2Day
FedEx Express Saver

4b Express Freight Service
FedEx 1Day Freight
FedEx 2Day Freight
FedEx 3Day Freight

5 Packaging
FedEx Envelope
FedEx Pak
FedEx Box
FedEx Tube
Other

6 Special Handling
SATURDAY Delivery
HOLD Weekday at FedEx Location
HOLD Saturday at FedEx Location
No
Yes
Dry Ice
Dangerous Goods
Cargo Aircraft Only

7 Payment Bill to
Sender
Recipient
Third Party
Credit Card
Cash/Check
Account No.
Credit Card No. 19 6571 8208
Exp. Date
Total Packages 5
Total Weight
Total Declared Value $ 10000 .00

8 Residential Delivery Signature Options
No Signature Required
Direct Signature
Indirect Signature
520

GPL Laboratories, LLLP

Figure 3
Sample Preservation Check Documentation Form

Work Order: 903125

Parameter:	Metals (A) HNO3	Phenol H2SO4	TKN O&G H2SO4	Classical Parameters H2SO4	Cyanide NaOH	Sulfide NaOH	Radiology (B) HNO3	Other Preservative Adjustment	Reagent Lot #	Use check at for comments
Preservative pH Value	<2	<2	<2	<2	>12	>9	<2			
GFL ID								Y / N		
QU1-S26W50-0309								Y / N		
51-0309								Y / N		
40-0309								Y / N		
68-0309								Y / N		
30-0309								Y / N		
37-0309								Y / N		
41-0309								Y / N		
56-0309								Y / N		
52-0309								Y / N		
45-0309								Y / N		
60-0309								Y / N		
35-0309								Y / N		
53-0309								Y / N		
34-0309								Y / N		
41F-0309								Y / N		
QU1-TB11-0309								Y / N		
12-0309								Y / N		
15-0309								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		
								Y / N		

(A). If drinking water metals sample is acidified in the laboratory
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.
(B) If Rad chemistry sample is acidified in the laboratory.
the TIME that the samples are acidified MUST be recorded in order to meet the 16 hour hold time requirement.
Tritium analysis should NOT be preserved

Sample Preservation Check Performed By: _____ Date: 3-19-09

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 903125 — Carrier Name: Fed Ex

Client Name: CH2M Hill — Prepared (Logged In) By: TP / 3-19-09

Date Received: 3-19-09 — Project:

Time Received: 930 — Site:

Received By: Travis — VOA Holding Blank ID No:

	YES	NO		YES	NO
Air Bill/Manifest Present?	✓		Trip Blanks Received?	✓	
No: 8056 2052 3224			No. of Sets 3		
Shipping Container in Good Condition?	✓		VOA Vials Have Zero Headspace?	✓	
Custody Seals Present on Shipping Container?	✓		Preservatives Added to Sample?	✓	
Condition: Good ✓ Broken			pH Check Required?	✓	
Chain of Custody Present?	✓		Performed By: TP		
Chain of Custody Agrees with Sample Labels?	✓		Ice Present in Shipping Container?	✓	
Chain of Custody Signed?	✓				
Packing Present in Shipping Container?	✓				
Type of Packing: Bubble wrap					
Custody Seals on Sample Bottles?	✓				
Condition: Good ✓ Broken					
Total Number of Sample Bottles	✓				
Total Number of Samples 18	✓				
Samples Intact?	✓				
Sufficient Sample Volume for Indicated Test?	✓				

Container #	Temperature
1	3
2	1
3	
4	
5	

TP

Project Manager Contacted?

Name: Gail

Date Contacted: 3-19-09

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS: QUI-52644S-0309 one vial for VOC damaged in transit

Checklist Completed By: TP

Date: 3-19-09

VOLATILE ORGANICS

GPL Laboratories

A. QC Summary

1. System Monitoring Compound Recovery

2. Matrix Spike/Matrix Spike Duplicate Recovery

3. Laboratory Control Standard Summary
   (where applicable)

4. Method Blank Summary

5. GC/MS Instrument Performance Check

6. Internal Standard Area and RT Summary

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903125

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108942	104	99	100	118
BLK108942	96	94	102	111
OU1-52GW40-0309	98	96	99	107
OU1-52GW50-0309	97	93	95	109
OU1-52GW51-0309DL	96	93	95	110

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903125

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108944	102	99	103	122
BLK108944	96	94	100	108
OU1-52GW34-0309	94	94	97	108
OU1-52GW35-0309DL	98	96	98	116
OU1-52GW36-0309	96	95	96	103
OU1-52GW37-0309DL	93	94	95	108
OU1-52GW41-0309	93	94	96	106
OU1-52GW45-0309	98	93	96	111
OU1-52GW52-0309	95	94	100	106
OU1-52GW60-0309	96	95	102	109
OU1-52GW69-0309	95	95	98	110
OU1-52GW70-0309	97	95	101	114

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903125

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108945	101	97	100	100
BKSD108945	103	99	99	102
BLK108945	103	94	98	96
OU1-52GW41P-0309	103	96	96	99
OU1-52GW53-0309	101	95	100	93
OU1-52GW70-0309DL	102	95	97	98
OU1-TB11-0309	99	95	99	95
OU1-TB12-0309	102	95	101	96

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

Surrogate Recovery Summary

Matrix : WATER Analytical Method : SW8260LL SDG No : 903125

Surrogate	BR4FBZ	BZMED8	DCA12D4	DCBZ12D4
Lower QC Limits	75	85	70	64
Upper QC Limits	120	120	120	132
Sample ID				
BKS108946	103	100	100	101
BLK108946	101	96	97	96
OU1-52GW53-0309DL	101	97	94	95

* Value outside of QC Limts

BR4FBZ = 4-Bromofluorobenzene BZMED8 = Toluene-D8 DCA12D4 = 1,2-Dichloroethane-d4 DCBZ12D4 = 1,2-Dichlorobenzene-d4

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108942

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108942
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	48	96	80-130
1,1,1-Trichloroethane	50	0	60	120	65-130
1,1,2,2-Tetrachloroethane	50	0	45	90	65-130
1,1,2-Trichloroethane	50	0	49	98	75-125
1,1-Dichloroethane	50	0	57	114	70-135
1,1-Dichloroethene	50	0	55	110	70-130
1,1-Dichloropropene	50	0	51	102	75-130
1,2,3-Trichlorobenzene	50	0	55	110	55-140
1,2,3-Trichloropropane	50	0	44	88	75-125
1,2,4-Trichlorobenzene	50	0	56	112	65-135
1,2,4-Trimethylbenzene	50	0	54	108	75-130
1,2-Dibromo-3-Chloropropane	50	0	42	84	50-130
1,2-Dichlorobenzene	50	0	58	116	70-120
1,2-Dichloroethane	50	0	50	100	70-130
1,2-Dichloropropane	50	0	43	86	75-125
1,3,5-trimethylbenzene	50	0	54	108	75-130
1,3-Dichlorobenzene	50	0	57	114	75-125
1,3-Dichloropropane	50	0	46	92	75-125
1,4-Dichlorobenzene	50	0	57	114	75-125
2,2-Dichloropropane	50	0	54	108	70-135
2-Butanone	100	0	91	91	30-150
2-Chlorotoluene	50	0	56	112	75-125
2-Hexanone	100	0	71	71	55-130
4-Chlorotoluene	50	0	54	108	75-130
4-Isopropyltoluene	50	0	59	118	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108942

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108942
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	71	71	60-135
Acetone	100	0	120	120	40-140
Benzene	50	0	44	88	80-120
Bromobenzene	50	0	56	112	75-125
Bromochloromethane	50	0	59	118	65-130
Bromodichloromethane	50	0	45	90	75-120
Bromoform	50	0	45	90	70-130
Bromomethane	50	0	75	150 *	30-145
Carbon Disulfide	50	0	49	98	35-160
Carbon Tetrachloride	50	0	59	118	65-140
Chlorobenzene	50	0	52	104	80-120
Chloroethane	50	0	51	102	60-135
Chloroform	50	0	54	108	65-135
Chloromethane	50	0	62	124	40-125
Cyclohexane	50	0	54	108	50-120
Dibromochloromethane	50	0	51	102	60-135
Dibromomethane	50	0	47	94	75-125
Dichlorodifluoromethane	50	0	46	92	30-155
Ethylbenzene	50	0	50	100	75-125
Ethylene DiBromide	50	0	48	96	80-120
Freon 113	50	0	65	130	70-130
Hexachlorobutadiene	50	0	54	108	50-140
Isopropylbenzene	50	0	54	108	75-125
Methyl Acetate	50	0	53	106	50-120
Methylcyclohexane	50	0	53	106	50-120

* Values Outside of QC Limits.

Spike recovery : 1 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108942

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108942
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	52	104	55-140
Naphthalene	50	0	49	98	55-140
Sec-Butylbenzene	50	0	54	108	70-125
Styrene	50	0	53	106	65-135
Tetrachloroethylene	50	0	57	114	45-150
Toluene	50	0	55	110	75-120
Trichloroethene	50	0	47	94	70-125
Trichlorofluoromethane	50	0	80	160 *	60-145
Vinyl Acetate	50	0	36	72	41-139
Vinyl Chloride	50	0	52	104	50-145
cis-1,2-Dichloroethene	50	0	54	108	70-125
cis-1,3-Dichloropropene	50	0	40	80	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	53	106	70-135
n-Propylbenzene	50	0	54	108	70-130
o-Xylene	50	0	52	104	80-120
tert-Butylbenzene	50	0	56	112	70-130
tert-butyl methyl ether	50	0	53	106	65-125
trans-1,2-dichloroethene	50	0	56	112	60-140
trans-1,3-dichloropropene	50	0	46	92	55-140

* Values Outside of QC Limits.

Spike recovery : 1 out of 20 outside limits

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108945

Lab Name : GPL Laboratories SDG NO : 903125 Method : SW8260LL

Lab Code : GPL Lab Sample ID : BKSD108945 Matrix : WATER Analysis Date : 03/31/2009

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	QC Limits
1,1,1,2-Tetrachloroethane	50	0.0	57	52	114	104	9	25	80-130
1,1,1-Trichloroethane	50	0.0	53	51	106	102	4	25	65-130
1,1,2,2-Tetrachloroethane	50	0.0	54	54	108	108	0	25	65-130
1,1,2-Trichloroethane	50	0.0	53	55	106	110	4	25	75-125
1,1-Dichloroethane	50	0.0	58	54	116	108	7	25	70-135
1,1-Dichloroethene	50	0.0	54	49	108	98	10	25	70-130
1,1-Dichloropropene	50	0.0	49	47	98	94	4	25	75-130
1,2,3-Trichlorobenzene	50	0.0	55	57	110	114	4	25	55-140
1,2,3-Trichloropropane	50	0.0	54	55	108	110	2	25	75-125
1,2,4-Trichlorobenzene	50	0.0	54	52	108	104	4	25	65-135
1,2,4-Trimethylbenzene	50	0.0	53	52	106	104	2	25	75-130
1,2-Dibromo-3-Chloropropane	50	0.0	53	55	106	110	4	25	50-130
1,2-Dichlorobenzene	50	0.0	53	52	104	104	0	25	70-120
1,2-Dichloroethane	50	0.0	51	51	102	102	0	25	70-130
1,2-Dichloropropane	50	0.0	53	54	106	108	2	25	75-125
1,3,5-trimethylbenzene	50	0.0	54	51	108	102	6	25	75-130
1,3-Dichlorobenzene	50	0.0	54	52	108	104	4	25	75-125
1,3-Dichloropropane	50	0.0	54	54	108	108	0	25	75-125

#column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 0 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108945

Lab Name : GPL Laboratories SDG NO : 903125

Lab Code : GPL Lab Sample ID : BKSD108945

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
1,4-Dichlorobenzene	50	0.0	53	52	106	104	2	25	75-125
2,2-Dichloropropane	50	0.0	52	47	104	94	10	25	70-135
2-Butanone	100	0.0	95	99	94	99	5	25	30-150
2-Chlorotoluene	50	0.0	55	54	110	108	2	25	75-125
2-Hexanone	100	0.0	110	110	100	110	10	25	55-130
4-Chlorotoluene	50	0.0	53	52	106	104	2	25	75-130
4-Isopropyltoluene	50	0.0	57	54	114	108	5	25	75-130
4-Methyl-2-Pentanone	100	0.0	110	120	110	110	0	25	60-135
Acetone	100	0.0	73	75	73	75	3	25	40-140
Benzene	50	0.0	53	52	104	104	0	25	80-120
Bromobenzene	50	0.0	56	52	112	104	7	25	75-125
Bromochloromethane	50	0.0	52	51	104	102	2	25	65-130
Bromodichloromethane	50	0.0	53	52	106	104	2	25	75-120
Bromoform	50	0.0	53	55	106	110	4	25	70-130
Bromomethane	50	0.0	63	58	126	116	8	25	30-145
Carbon Disulfide	50	0.0	49	46	98	92	6	25	35-160
Carbon Tetrachloride	50	0.0	55	51	110	102	8	25	65-140
Chlorobenzene	50	0.0	55	53	110	106	4	25	80-120

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#Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 0 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108945

Lab Name : GPL Laboratories SDG NO : 903125

Lab Code : GPL Lab Sample ID : BKSD108945

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Chloroethane	50	0.0	51	51	102	100	2	25	60-135
Chloroform	50	0.0	52	50	104	100	4	25	65-135
Chloromethane	50	0.0	52	51	104	102	2	25	40-125
Cyclohexane	50	0.0	49	46	98	92	6	25	50-120
Dibromochloromethane	50	0.0	53	53	104	106	2	25	60-135
Dibromomethane	50	0.0	50	51	100	102	2	25	75-125
Dichlorodifluoromethane	50	0.0	47	49	94	98	4	25	30-155
Ethylbenzene	50	0.0	54	51	108	102	6	25	75-125
Ethylene DiBromide	50	0.0	55	54	110	108	2	25	80-120
Freon 113	50	0.0	53	49	106	98	8	25	70-130
Hexachlorobutadiene	50	0.0	53	51	106	102	4	25	50-140
Isopropylbenzene	50	0.0	54	52	108	104	4	25	75-125
Methyl Acetate	50	0.0	56	56	112	112	0	25	50-120
Methylcyclohexane	50	0.0	57	54	114	108	5	25	50-120
Methylene Chloride	50	0.0	52	50	104	100	4	25	55-140
Naphthalene	50	0.0	56	58	112	116	4	25	55-140
Sec-Butylbenzene	50	0.0	54	52	108	102	6	25	70-125
Styrene	50	0.0	56	54	112	108	4	25	65-135

#olumn to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 0 Out of 140 outside limit

GPL Laboratories

BKS/BSD RECOVERY

SAMPLE NO
BKSD108945

Lab Name : GPL Laboratories SDG NO : 903125

Lab Code : GPL Lab Sample ID : BKSD108945

Compound	Spike Added (ug/L)	CONCENTRATION (ug/L) BLANK	BKS	BSD	%RECOVERY BKS	BSD	% RPD	RPD Limit	
Tetrachloroethylene	50	0.0	73	74	146	148	1	25	45-150
Toluene	50	0.0	53	51	104	102	2	25	75-120
Trichloroethene	50	0.0	55	53	110	106	4	25	70-125
Trichlorofluoromethane	50	0.0	49	47	98	94	4	25	60-145
Vinyl Acetate	50	0.0	23	23	46	44	4	25	41-139
Vinyl Chloride	50	0.0	47	47	94	94	0	25	50-145
cis-1,2-Dichloroethene	50	0.0	54	51	108	102	6	25	70-125
cis-1,3-Dichloropropene	50	0.0	53	52	106	104	2	25	70-130
m,p-Xylene	100	0.0	110	110	110	110	0	25	75-130
n-Butylbenzene	50	0.0	54	52	108	104	4	25	70-135
n-Propylbenzene	50	0.0	54	51	108	102	6	25	70-130
o-Xylene	50	0.0	55	53	110	106	4	25	80-120
tert-Butylbenzene	50	0.0	50	47	100	94	6	25	70-130
tert-butyl methyl ether	50	0.0	55	57	110	114	4	25	65-125
trans-1,2-dichloroethene	50	0.0	54	52	108	102	6	25	60-140
trans-1,3-dichloropropene	50	0.0	55	55	108	110	2	25	55-140

#Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 70 Outside Limit
Spike Recovery : 0 Out of 140 outside limit

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108946

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108946
Analysis Date : 04/01/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	47	94	80-130
1,1,1-Trichloroethane	50	0	46	92	65-130
1,1,2,2-Tetrachloroethane	50	0	48	96	65-130
1,1,2-Trichloroethane	50	0	48	96	75-125
1,1-Dichloroethane	50	0	48	96	70-135
1,1-Dichloroethene	50	0	44	88	70-130
1,1-Dichloropropene	50	0	43	86	75-130
1,2,3-Trichlorobenzene	50	0	49	98	55-140
1,2,3-Trichloropropane	50	0	48	96	75-125
1,2,4-Trichlorobenzene	50	0	46	92	65-135
1,2,4-Trimethylbenzene	50	0	46	92	75-130
1,2-Dibromo-3-Chloropropane	50	0	48	96	50-130
1,2-Dichlorobenzene	50	0	45	90	70-120
1,2-Dichloroethane	50	0	45	90	70-130
1,2-Dichloropropane	50	0	45	90	75-125
1,3,5-trimethylbenzene	50	0	45	90	75-130
1,3-Dichlorobenzene	50	0	45	90	75-125
1,3-Dichloropropane	50	0	49	98	75-125
1,4-Dichlorobenzene	50	0	45	90	75-125
2,2-Dichloropropane	50	0	46	92	70-135
2-Butanone	100	0	88	88	30-150
2-Chlorotoluene	50	0	46	92	75-125
2-Hexanone	100	0	96	96	55-130
4-Chlorotoluene	50	0	45	90	75-130
4-Isopropyltoluene	50	0	48	96	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108946

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108946
Analysis Date : 04/01/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	100	100	60-135
Acetone	100	0	68	68	40-140
Benzene	50	0	45	90	80-120
Bromobenzene	50	0	46	92	75-125
Bromochloromethane	50	0	44	88	65-130
Bromodichloromethane	50	0	46	92	75-120
Bromoform	50	0	50	100	70-130
Bromomethane	50	0	47	94	30-145
Carbon Disulfide	50	0	42	84	35-160
Carbon Tetrachloride	50	0	45	90	65-140
Chlorobenzene	50	0	46	92	80-120
Chloroethane	50	0	46	92	60-135
Chloroform	50	0	43	86	65-135
Chloromethane	50	0	43	86	40-125
Cyclohexane	50	0	43	86	50-120
Dibromochloromethane	50	0	50	100	60-135
Dibromomethane	50	0	46	92	75-125
Dichlorodifluoromethane	50	0	44	88	30-155
Ethylbenzene	50	0	45	90	75-125
Ethylene DiBromide	50	0	49	98	80-120
Freon 113	50	0	46	92	70-130
Hexachlorobutadiene	50	0	44	88	50-140
Isopropylbenzene	50	0	46	92	75-125
Methyl Acetate	50	0	48	96	50-120
Methylcyclohexane	50	0	46	92	50-120

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108946

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108946
Analysis Date : 04/01/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	44	88	55-140
Naphthalene	50	0	50	100	55-140
Sec-Butylbenzene	50	0	46	92	70-125
Styrene	50	0	48	96	65-135
Tetrachloroethylene	50	0	47	94	45-150
Toluene	50	0	45	90	75-120
Trichloroethene	50	0	43	86	70-125
Trichlorofluoromethane	50	0	44	88	60-145
Vinyl Acetate	50	0	22	44	41-139
Vinyl Chloride	50	0	43	86	50-145
cis-1,2-Dichloroethene	50	0	44	88	70-125
cis-1,3-Dichloropropene	50	0	47	94	70-130
m,p-Xylene	100	0	93	93	75-130
n-Butylbenzene	50	0	46	92	70-135
n-Propylbenzene	50	0	46	92	70-130
o-Xylene	50	0	46	92	80-120
tert-Butylbenzene	50	0	42	84	70-130
tert-butyl methyl ether	50	0	49	98	65-125
trans-1,2-dichloroethene	50	0	43	86	60-140
trans-1,3-dichloropropene	50	0	51	102	55-140

* Values Outside of QC Limits.

Spike recovery : 0 out of 20 outside limits

SW8260LL

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108944

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108944
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
1,1,1,2-Tetrachloroethane	50	0	48	96	80-130
1,1,1-Trichloroethane	50	0	61	122	65-130
1,1,2,2-Tetrachloroethane	50	0	49	98	65-130
1,1,2-Trichloroethane	50	0	52	104	75-125
1,1-Dichloroethane	50	0	58	116	70-135
1,1-Dichloroethene	50	0	53	106	70-130
1,1-Dichloropropene	50	0	49	98	75-130
1,2,3-Trichlorobenzene	50	0	59	118	55-140
1,2,3-Trichloropropane	50	0	54	108	75-125
1,2,4-Trichlorobenzene	50	0	58	116	65-135
1,2,4-Trimethylbenzene	50	0	54	108	75-130
1,2-Dibromo-3-Chloropropane	50	0	50	100	50-130
1,2-Dichlorobenzene	50	0	59	118	70-120
1,2-Dichloroethane	50	0	54	108	70-130
1,2-Dichloropropane	50	0	44	88	75-125
1,3,5-trimethylbenzene	50	0	54	108	75-130
1,3-Dichlorobenzene	50	0	59	118	75-125
1,3-Dichloropropane	50	0	48	96	75-125
1,4-Dichlorobenzene	50	0	58	116	75-125
2,2-Dichloropropane	50	0	49	98	70-135
2-Butanone	100	0	110	110	30-150
2-Chlorotoluene	50	0	56	112	75-125
2-Hexanone	100	0	85	85	55-130
4-Chlorotoluene	50	0	55	110	75-130
4-Isopropyltoluene	50	0	59	118	75-130

* Values Outside of QC Limits.

Spike recovery : 0 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108944

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108944
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
4-Methyl-2-Pentanone	100	0	84	84	60-135
Acetone	100	0	140	140	40-140
Benzene	50	0	44	88	80-120
Bromobenzene	50	0	58	116	75-125
Bromochloromethane	50	0	60	120	65-130
Bromodichloromethane	50	0	46	92	75-120
Bromoform	50	0	48	96	70-130
Bromomethane	50	0	74	148 *	30-145
Carbon Disulfide	50	0	43	86	35-160
Carbon Tetrachloride	50	0	55	110	65-140
Chlorobenzene	50	0	52	104	80-120
Chloroethane	50	0	48	96	60-135
Chloroform	50	0	54	108	65-135
Chloromethane	50	0	56	112	40-125
Cyclohexane	50	0	49	98	50-120
Dibromochloromethane	50	0	52	104	60-135
Dibromomethane	50	0	51	102	75-125
Dichlorodifluoromethane	50	0	31	62	30-155
Ethylbenzene	50	0	50	100	75-125
Ethylene DiBromide	50	0	52	104	80-120
Freon 113	50	0	64	128	70-130
Hexachlorobutadiene	50	0	54	108	50-140
Isopropylbenzene	50	0	54	108	75-125
Methyl Acetate	50	0	71	142 *	50-120
Methylcyclohexane	50	0	50	100	50-120

* Values Outside of QC Limits.

Spike recovery : 2 out of 25 outside limits

GPL Laboratories

LCS SUMMARY

SAMPLE NO
BKS108944

Lab Name : GPL Laboratories
Lab Code : GPL
Matrix : WATER
Method : SW8260LL

Contract. : CTO-059 386383.FI.FQ.FC
SDG NO : 903125
Lab Sample ID : BKS108944
Analysis Date : 03/27/2009

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMTS
Methylene Chloride	50	0	54	108	55-140
Naphthalene	50	0	57	114	55-140
Sec-Butylbenzene	50	0	55	110	70-125
Styrene	50	0	54	108	65-135
Tetrachloroethylene	50	0	80	160 *	45-150
Toluene	50	0	52	104	75-120
Trichloroethene	50	0	47	94	70-125
Trichlorofluoromethane	50	0	74	148 *	60-145
Vinyl Acetate	50	0	32	64	41-139
Vinyl Chloride	50	0	44	88	50-145
cis-1,2-Dichloroethene	50	0	55	110	70-125
cis-1,3-Dichloropropene	50	0	40	80	70-130
m,p-Xylene	100	0	100	100	75-130
n-Butylbenzene	50	0	53	106	70-135
n-Propylbenzene	50	0	53	106	70-130
o-Xylene	50	0	52	104	80-120
tert-Butylbenzene	50	0	56	112	70-130
tert-butyl methyl ether	50	0	58	116	65-125
trans-1,2-dichloroethene	50	0	55	110	60-140
trans-1,3-dichloropropene	50	0	45	90	55-140

* Values Outside of QC Limits.

Spike recovery : 2 out of 20 outside limits

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108942

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	A62638.D	SDG NO :	903125
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108942
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	11:46

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108942	BKS108942	A62636.D	11:06
OU1-52GW40-0309	903125-003-007-1/3	A62660.D	19:35
OU1-52GW50-0309	903125-001-001-1/3	A62656.D	18:14
OU1-52GW51-0309DL	903125-002-004-1/3	A62658.D	18:55

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108944

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	A62670.D	SDG NO :	903125
Date Analyzed	03/27/2009	Lab Sample ID :	BLK108944
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	22:59

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108944	BKS108944	A62668.D	22:18
OU1-52GW34-0309	903125-014-040-1/3	A62692.D	06:26
OU1-52GW35-0309DL	903125-012-034-1/3	A62688.D	05:05
OU1-52GW36-0309	903125-008-022-1/3	A62680.D	02:23
OU1-52GW37-0309DL	903125-006-016-1/3	A62676.D	01:01
OU1-52GW41-0309	903125-007-019-1/3	A62678.D	01:42
OU1-52GW45-0309	903125-010-130-1/2	A62684.D	03:43
OU1-52GW52-0309	903125-009-025-1/3	A62682.D	03:03
OU1-52GW60-0309	903125-011-031-1/3	A62686.D	04:24
OU1-52GW69-0309	903125-004-010-1/3	A62672.D	23:39
OU1-52GW70-0309	903125-005-013-1/3	A62674.D	00:21

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108945

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	A62755.D	SDG NO :	903125
Date Analyzed	03/31/2009	Lab Sample ID :	BLK108945
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	15:08

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108945	BKS108945	A62762.D	18:52
BKSD108945	BKSD108945	A62763.D	19:24
OU1-52GW41P-0309	903125-015-043-1/3	A62758.D	16:44
OU1-52GW53-0309	903125-013-037-1/3	A62764.D	19:55
OU1-52GW70-0309DL	903125-005-014-2/3	A62765.D	20:27
OU1-TB11-0309	903125-016-046-1/3	A62759.D	17:16
OU1-TB12-0309	903125-017-049-1/3	A62760.D	17:48

GPL Laboratories

GPL
FORM 4
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO
BLK108946

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Lab File ID :	A62773.D	SDG NO :	903125
Date Analyzed	04/01/2009	Lab Sample ID :	BLK108946
GC Column :	RTX_624 ID. 0.18	Time Analyzed :	09:14

HIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES,MS AND MSD

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
BKS108946	BKS108946	A62772.D	08:42
OU1-52GW53-0309DL	903125-013-038-2/3	A62779.D	12:26

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: GPL LABORATORIES, LLC. Contract:

Lab Code: GPLL Case No.: SAS No.: SDG No.:

Lab File ID: A62206.D BFB Injection Date: 03/10/09

Instrument ID: HP#A BFB Injection Time: 07:55

GC Column: RTX_624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	51.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.1)1
174	50.0 - 120.0% of mass 95	78.5
175	4.0 - 9.0% of mass 174	5.9 (7.5)1
176	93.0 - 101.0% of mass 174	79.2 (100.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL01	CAL01	A62208.D	03/10/09	09:10
02	CAL05	CAL05	A62210.D	03/10/09	09:51
03	CAL20	CAL20	A62212.D	03/10/09	11:24
04	CAL50	CAL50	A62214.D	03/10/09	12:04
05	CAL100	CAL100	A62216.D	03/10/09	13:09
06	CAL200	CAL200	A62220.D	03/10/09	14:43
07	ICV50	BKS/ICV50	A62242.D	03/11/09	12:15

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: GPL LABORATORIES, LLC. Contract:

Lab Code: GPLL Case No.: SAS No.: SDG No.:

Lab File ID: A62739.D BFB Injection Date: 03/31/09

Instrument ID: HP#A BFB Injection Time: 08:26

GC Column: RTX_624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.9
75	30.0 - 66.0% of mass 95	52.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	1.7 (1.8)1
174	50.0 - 120.0% of mass 95	96.0
175	4.0 - 9.0% of mass 174	8.0 (8.4)1
176	93.0 - 101.0% of mass 174	94.0 (98.0)1
177	5.0 - 9.0% of mass 176	6.0 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL01	CAL01	A62740.D	03/31/09	09:17
02	CAL05	CAL05	A62742.D	03/31/09	09:57
03	CAL20	CAL20	A62744.D	03/31/09	10:38
04	CAL50	CAL50	A62746.D	03/31/09	11:19
05	CAL100	CAL100	A62748.D	03/31/09	12:00
06	CAL200	CAL200	A62752.D	03/31/09	13:41
07	ICV50	ICV50	A62762.D	03/31/09	18:52

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62630.D BFB Injection Date : 03/27/2009 BFB Injection Time : 08:38

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	22.1	
75	30.0 - 60.0% of mass 95	50.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	1.6	(1.7)1
174	50.0 - 120.0% of mass 95	95.2	
175	5.0 - 9.0% of mass 174	8.2	(8.6)1
176	95.0 - 101.0% of mass 174	94.1	(98.8)1
177	5.0 - 9.0% of mass 176	6.4	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62634.D	03/27/2009	10:25
2	BKS108942	BKS108942	A62636.D	03/27/2009	11:06
3	BLK108942	BLK108942	A62638.D	03/27/2009	11:46
4	OU1-52GW50-0309	903125-001-001-1/3	A62656.D	03/27/2009	18:14
5	OU1-52GW51-0309DL	903125-002-004-1/3	A62658.D	03/27/2009	18:55
6	OU1-52GW40-0309	903125-003-007-1/3	A62660.D	03/27/2009	19:35

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62664.D BFB Injection Date : 03/27/2009 BFB Injection Time : 20:56

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	23.3	
75	30.0 - 60.0% of mass 95	52.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	1.7	(1.8)1
174	50.0 - 120.0% of mass 95	93.5	
175	5.0 - 9.0% of mass 174	8.2	(8.8)1
176	95.0 - 101.0% of mass 174	91.0	(97.4)1
177	5.0 - 9.0% of mass 176	5.7	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62666.D	03/27/2009	21:37
2	BKS108944	BKS108944	A62668.D	03/27/2009	22:18
3	BLK108944	BLK108944	A62670.D	03/27/2009	22:59
4	OU1-52GW69-0309	903125-004-010-1/3	A62672.D	03/27/2009	23:39
5	OU1-52GW70-0309	903125-005-013-1/3	A62674.D	03/28/2009	00:21
6	OU1-52GW37-0309DL	903125-006-016-1/3	A62676.D	03/28/2009	01:01
7	OU1-52GW41-0309	903125-007-019-1/3	A62678.D	03/28/2009	01:42
8	OU1-52GW36-0309	903125-008-022-1/3	A62680.D	03/28/2009	02:23
9	OU1-52GW52-0309	903125-009-025-1/3	A62682.D	03/28/2009	03:03
10	OU1-52GW45-0309	903125-010-130-1/2	A62684.D	03/28/2009	03:43
11	OU1-52GW60-0309	903125-011-031-1/3	A62686.D	03/28/2009	04:24
12	OU1-52GW35-0309DL	903125-012-034-1/3	A62688.D	03/28/2009	05:05
13	OU1-52GW34-0309	903125-014-040-1/3	A62692.D	03/28/2009	06:26

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62739.D BFB Injection Date : 03/31/2009 BFB Injection Time : 08:26

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.9	
75	30.0 - 60.0% of mass 95	52.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.2	
173	Less than 2.0% of mass 174	1.7	(1.8)1
174	50.0 - 120.0% of mass 95	96.0	
175	5.0 - 9.0% of mass 174	8.0	(8.4)1
176	95.0 - 101.0% of mass 174	94.0	(98.0)1
177	5.0 - 9.0% of mass 176	6.0	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CAL50	CAL50	A62746.D	03/31/2009	11:19
2	BLK108945	BLK108945	A62755.D	03/31/2009	15:08
3	OU1-52GW41P-0309	903125-015-043-1/3	A62758.D	03/31/2009	16:44
4	OU1-TB11-0309	903125-016-046-1/3	A62759.D	03/31/2009	17:16
5	OU1-TB12-0309	903125-017-049-1/3	A62760.D	03/31/2009	17:48
6	BKS108945	BKS108945	A62762.D	03/31/2009	18:52
7	BKSD108945	BKSD108945	A62763.D	03/31/2009	19:24
8	OU1-52GW53-0309	903125-013-037-1/3	A62764.D	03/31/2009	19:55
9	OU1-52GW70-0309DL	903125-005-014-2/3	A62765.D	03/31/2009	20:27

GPL
Form 5

OLATILE INSTRUMENT PERFORMANCE CHECK BROMOFLUROBENZENE(BFI

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62770.D BFB Injection Date : 04/01/2009 BFB Injection Time : 07:38

GC Column: RTX_624 ID: 0.18

m/e	ION ABUNDANCE CRITERIA	%Relative Abundance	
50	15.0 - 40.0% of mass 95	21.2	
75	30.0 - 60.0% of mass 95	53.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.4	
173	Less than 2.0% of mass 174	1.8	(2.1)1
174	50.0 - 120.0% of mass 95	89.6	
175	5.0 - 9.0% of mass 174	7.5	(8.4)1
176	95.0 - 101.0% of mass 174	89.5	(99.9)1
177	5.0 - 9.0% of mass 176	6.1	(6.8)2

1-Value is % mass 174

2-Value is % mass 176

	Client Sample	Lab Sample NO	Lab File ID	Date Analyzed	Time Analyzed
1	CCV50-01	CCV50-01	A62771.D	04/01/2009	08:10
2	BKS108946	BKS108946	A62772.D	04/01/2009	08:42
3	BLK108946	BLK108946	A62773.D	04/01/2009	09:14
4	OU1-52GW53-0309DL	903125-013-038-2/3	A62779.D	04/01/2009	12:26

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62634.D Date Analyzed: 03/27/2009 Time Analyzed: 10:25

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	501933	04.69	502179	07.79	552639	04.56
UPPER LIMIT	1003866	05.19	1004358	08.29	1105278	05.06
LOWER LIMIT	250967	04.19	251090	07.29	276320	04.06
Client Sample						
BKS108942	468985	04.69	477046	07.78	520085	04.56
BLK108942	372311	04.69	358557	07.78	402942	04.56
OU1-52GW40-0309	415213	04.69	389461	07.78	455263	04.56
OU1-52GW50-0309	452397	04.69	425850	07.78	499311	04.56
OU1-52GW51-0309DL	451288	04.69	412129	07.78	487556	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzen

AREA UPPER LIMIT = +100% of internal standard ar
AREA LOWER LIMIT = -50% of internal standard are
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62666.D Date Analyzed: 03/27/2009 Time Analyzed: 21:37

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	455744	04.69	470192	07.78	512290	04.56
UPPER LIMIT	911488	05.19	940384	08.28	1024580	05.06
LOWER LIMIT	227872	04.19	235096	07.28	256145	04.06
Client Sample						
BKS108944	473726	04.69	480177	07.78	532127	04.56
BLK108944	467813	04.69	434826	07.78	511339	04.57
OU1-52GW34-0309	412462	04.69	406102	07.78	445557	04.57
OU1-52GW35-0309DL	370537	04.69	352757	07.78	408589	04.56
OU1-52GW36-0309	431637	04.69	410962	07.78	466498	04.57
OU1-52GW37-0309DL	448524	04.69	422032	07.78	486270	04.57
OU1-52GW41-0309	430779	04.69	404979	07.78	449763	04.57
OU1-52GW45-0309	445669	04.69	409017	07.78	485244	04.57
OU1-52GW52-0309	434883	04.69	406295	07.78	462696	04.57
OU1-52GW60-0309	430438	04.69	406792	07.78	459268	04.56
OU1-52GW69-0309	448775	04.69	417994	07.78	484408	04.56
OU1-52GW70-0309	366965	04.68	342567	07.78	402875	04.56

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62746.D Date Analyzed: 03/31/2009 Time Analyzed: 11:19

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	365061	04.68	311437	07.78	409940	04.55
UPPER LIMIT	730122	05.18	622874	08.28	819880	05.05
LOWER LIMIT	182531	04.18	155719	07.28	204970	04.05
Client Sample						
BKS108945	384680	04.68	326504	07.78	422627	04.55
BKSD108945	388813	04.68	333363	07.78	434287	04.55
BLK108945	414080	04.68	326613	07.78	461264	04.56
OU1-52GW41P-0309	378595	04.68	301029	07.78	421994	04.56
OU1-52GW53-0309	411413	04.68	333217	07.78	453453	04.56
OU1-52GW70-0309DL	403708	04.68	322080	07.78	453613	04.55
OU1-TB11-0309	393147	04.68	323658	07.78	441468	04.55
OU1-TB12-0309	390853	04.68	307249	07.78	431101	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

GPL
Form 8 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GPL LABORATORIES Contract : CH2M Hill Inc

Lab Code: GPL Case No: N/A SAS No:N/A SDG No : 903125

Lab File ID: A62771.D Date Analyzed: 04/01/2009 Time Analyzed: 08:10

	14DFBZ		CLBZD5		FBZ	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	434523	04.68	380821	07.78	487079	04.56
UPPER LIMIT	869046	05.18	761642	08.28	974158	05.06
LOWER LIMIT	217262	04.18	190411	07.28	243540	04.06
Client Sample						
BKS108946	448088	04.68	381315	07.78	500642	04.56
BLK108946	448805	04.68	365654	07.78	502837	04.55
OU1-52GW53-0309DL	383139	04.68	317499	07.78	434059	04.55

14DFBZ = 1,4-Difluorobenzen
CLBZD5 = Chlorobenzene-d
FBZ = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard are
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT
Column to be used to flag values outside QC limit with an asteris
* Values outside of contract required QC limits

B. Sample Data

1. TCL Results

2. Tentatively Identified Compounds

3. Quantitation Report and Reconstructed Total Ion Chromatograms

4. Mass Spectra for Identified TCL Compounds

5. Library Search Mass Spectra for Tentatively Identified Compounds

6. Quantitation/Calibration of Tentatively Identified Compounds

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-001-1/3
Sample Volume :	5	Lab File ID :	A62656.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-001-1/3
Sample Volume :	5	Lab File ID :	A62656.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	0.95	J
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW50-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-001-001-1/3
Sample Volume :	5	Lab File ID :	A62656.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.3	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62656.D
Acq On : 27 Mar 2009 6:14 pm
Operator : SM
Sample : 903125-001
Misc : OUI-52GW50-0309,CH2M HILL,WATER
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Apr 01 13:44:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

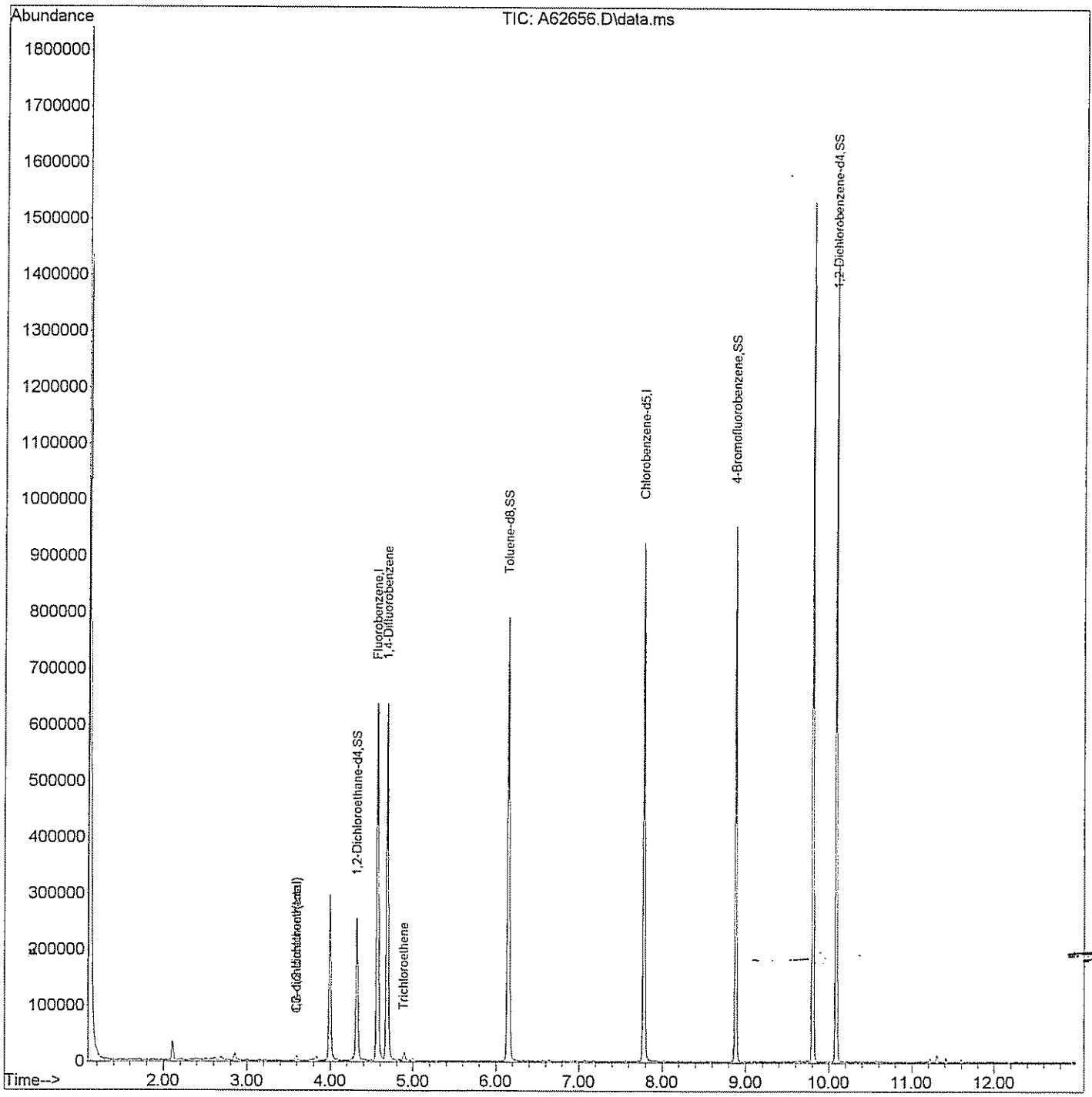
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	499311	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	452397	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	425850	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	131540	47.68	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 95.36%			
53) Toluene-d8	6.147	98	466436	46.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 92.90%			
75) 4-Bromofluorobenzene	8.881	95	204317	48.35	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 96.70%			
91) 1,2-Dichlorobenzene-d4	10.085	152	251972	54.65	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 109.30%			
Target Compounds						Qvalue
28) Cis-1,2-dichloroethene	3.596	96	3134	1.32	ug/L #	66
29) 1,2-dichloroethene(total)	3.596	96	3134	1.45	ug/L #	66
46) Trichloroethene	4.890	95	2370	0.95	ug/L	91

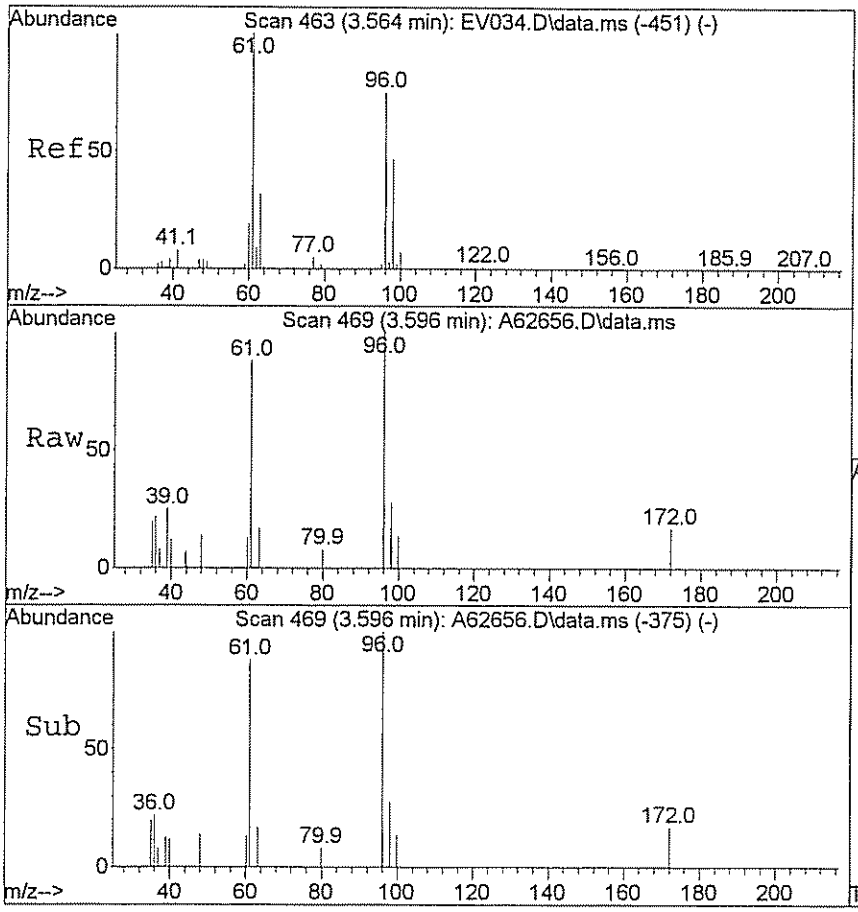
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62656.D
Acq On : 27 Mar 2009 6:14 pm
Operator : SM
Sample : 903125-001
Misc : OUI-52GW50-0309,CH2M HILL,WATER
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Apr 01 13:44:44 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

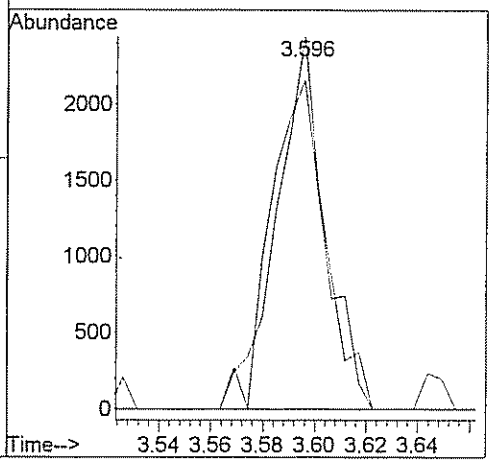


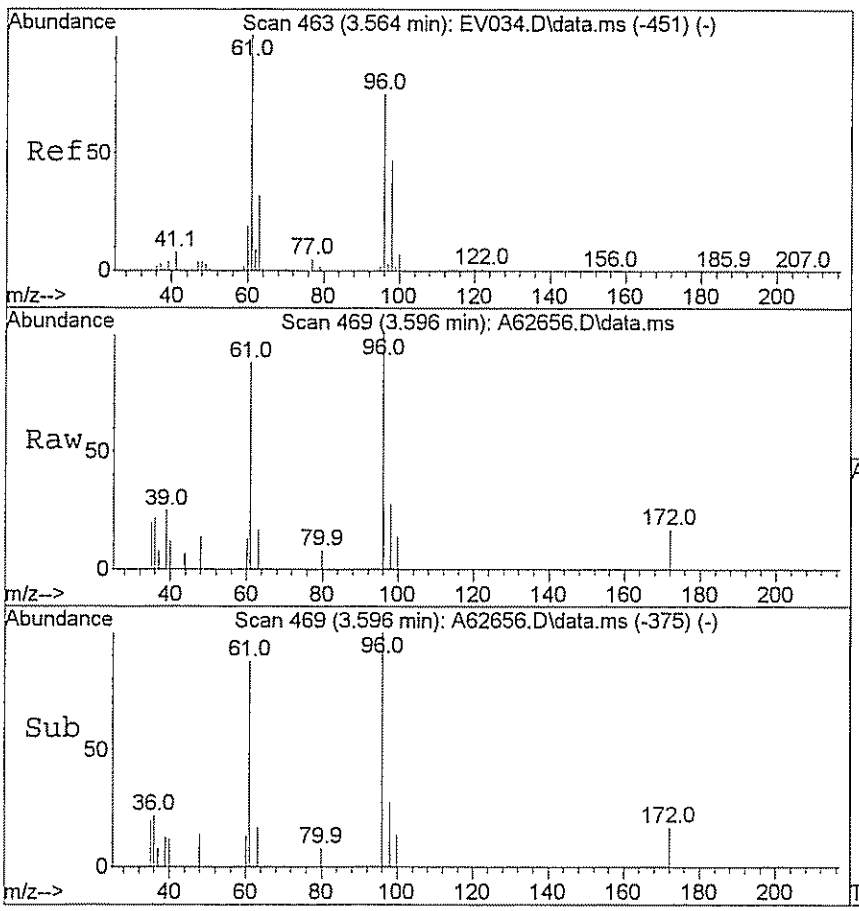


#28
Cis-1,2-dichloroethene
Concen: 1.32 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62656.D
Acq: 27 Mar 2009 6:14 pm

Tgt Ion: 96 Resp: 3134

Ion	Ratio	Lower	Upper
96	100		
61	102.3	115.0	172.6#

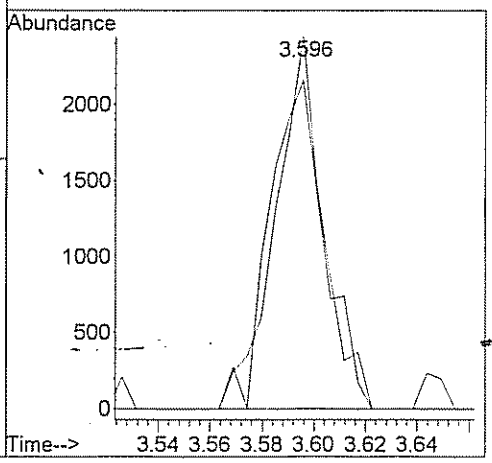


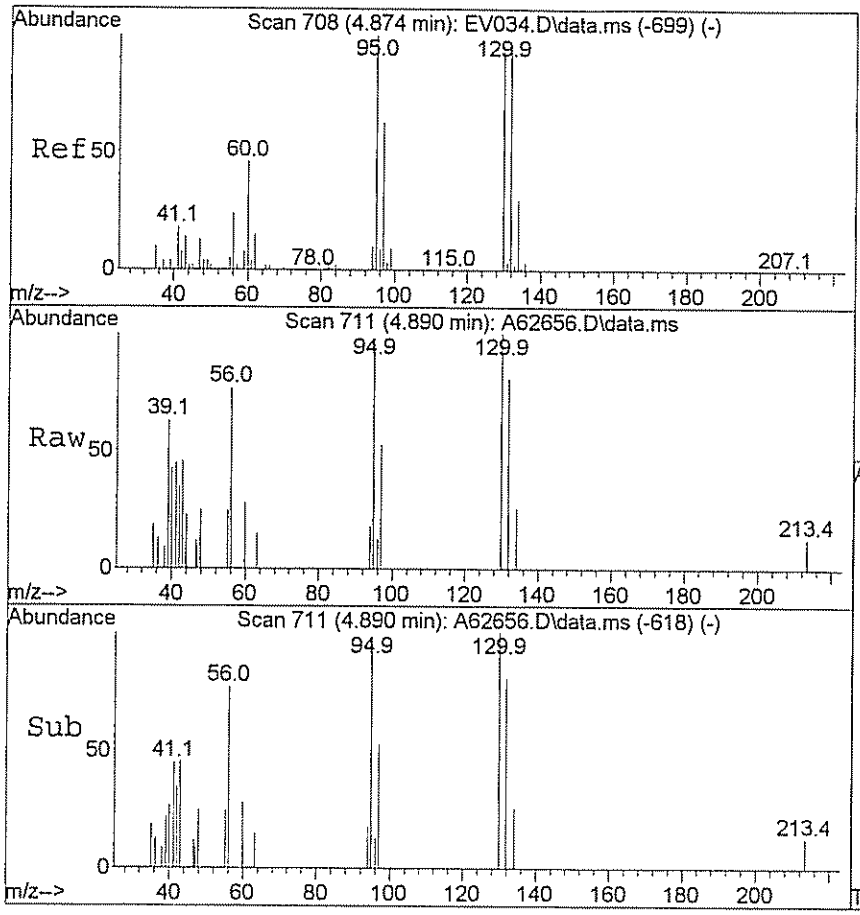


#29
1,2-dichloroethene(total)
Concen: 1.45 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62656.D
Acq: 27 Mar 2009 6:14 pm

Tgt Ion: 96 Resp: 3134

Ion	Ratio	Lower	Upper
96	100		
61	102.3	115.0	172.6#

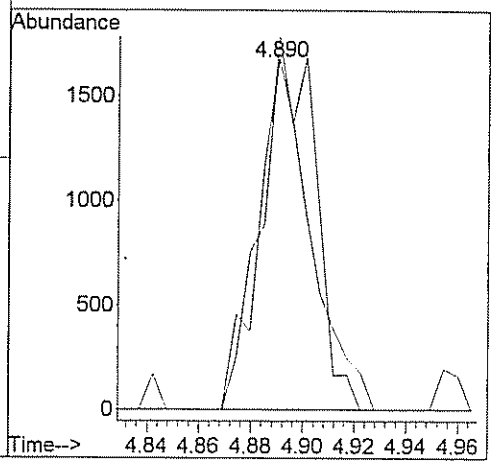




#46
Trichloroethene
Concen: 0.95 ug/L
RT: 4.890 min Scan# 711
Delta R.T. -0.000 min
Lab File: A62656.D
Acq: 27 Mar 2009 6:14 pm

Tgt Ion: 95 Resp: 2370

Ion	Ratio	Lower	Upper
95	100		
130	108.2	79.7	119.5



GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-004-1/3
Sample Volume :	.1	Lab File ID :	A62658.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
563-58-6	1,1-Dichloropropene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
96-12-8	1,2-Dibromo-3-Chloropropane	100	U
95-50-1	1,2-Dichlorobenzene	50	U
107-06-2	1,2-Dichloroethane	50	U
78-87-5	1,2-Dichloropropane	50	U
108-67-8	1,3,5-trimethylbenzene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
142-28-9	1,3-Dichloropropane	50	U
106-46-7	1,4-Dichlorobenzene	50	U
594-20-7	2,2-Dichloropropane	50	U
78-93-3	2-Butanone	250	U
95-49-8	2-Chlorotoluene	50	U
591-78-6	2-Hexanone	250	U
106-43-4	4-Chlorotoluene	50	U
99-87-6	4-Isopropyltoluene	50	U
108-10-1	4-Methyl-2-Pentanone	250	U
67-64-1	Acetone	250	U
71-43-2	Benzene	50	U
108-86-1	Bromobenzene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-004-1/3
Sample Volume :	.1	Lab File ID :	A62658.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	50	U
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
75-15-0	Carbon Disulfide	50	U
56-23-5	Carbon Tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
110-82-7	Cyclohexane	50	U
124-48-1	Dibromochloromethane	50	U
74-95-3	Dibromomethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
100-41-4	Ethylbenzene	50	U
106-93-4	Ethylene DiBromide	50	U
76-13-1	Freon 113	50	U
87-68-3	Hexachlorobutadiene	50	U
98-82-8	Isopropylbenzene	50	U
79-20-9	Methyl Acetate	50	U
108-87-2	Methylcyclohexane	50	U
75-09-2	Methylene Chloride	170	
91-20-3	Naphthalene	50	U
135-98-8	Sec-Butylbenzene	50	U
100-42-5	Styrene	50	U
127-18-4	Tetrachloroethylene	50	U
108-88-3	Toluene	50	U
79-01-6	Trichloroethene	1800	
75-69-4	Trichlorofluoromethane	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW51-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-002-004-1/3
Sample Volume :	.1	Lab File ID :	A62658.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	50	U
75-01-4	Vinyl Chloride	50	U
156-59-2	cis-1,2-Dichloroethene	250	
10061-01-5	cis-1,3-Dichloropropene	50	U
136777-61-2	m,p-Xylene	50	U
104-51-8	n-Butylbenzene	50	U
103-65-1	n-Propylbenzene	50	U
95-47-6	o-Xylene	50	U
98-06-6	tert-Butylbenzene	50	U
1634-04-4	tert-butyl methyl ether	50	U
156-60-5	trans-1,2-dichloroethene	50	U
10061-02-6	trans-1,3-dichloropropene	50	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62658.D
Acq On : 27 Mar 2009 6:55 pm
Operator : SM
Sample : 903125-002
Misc : OUI-52GW51-0309,CH2M HILL,50X
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Apr 01 13:47:31 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

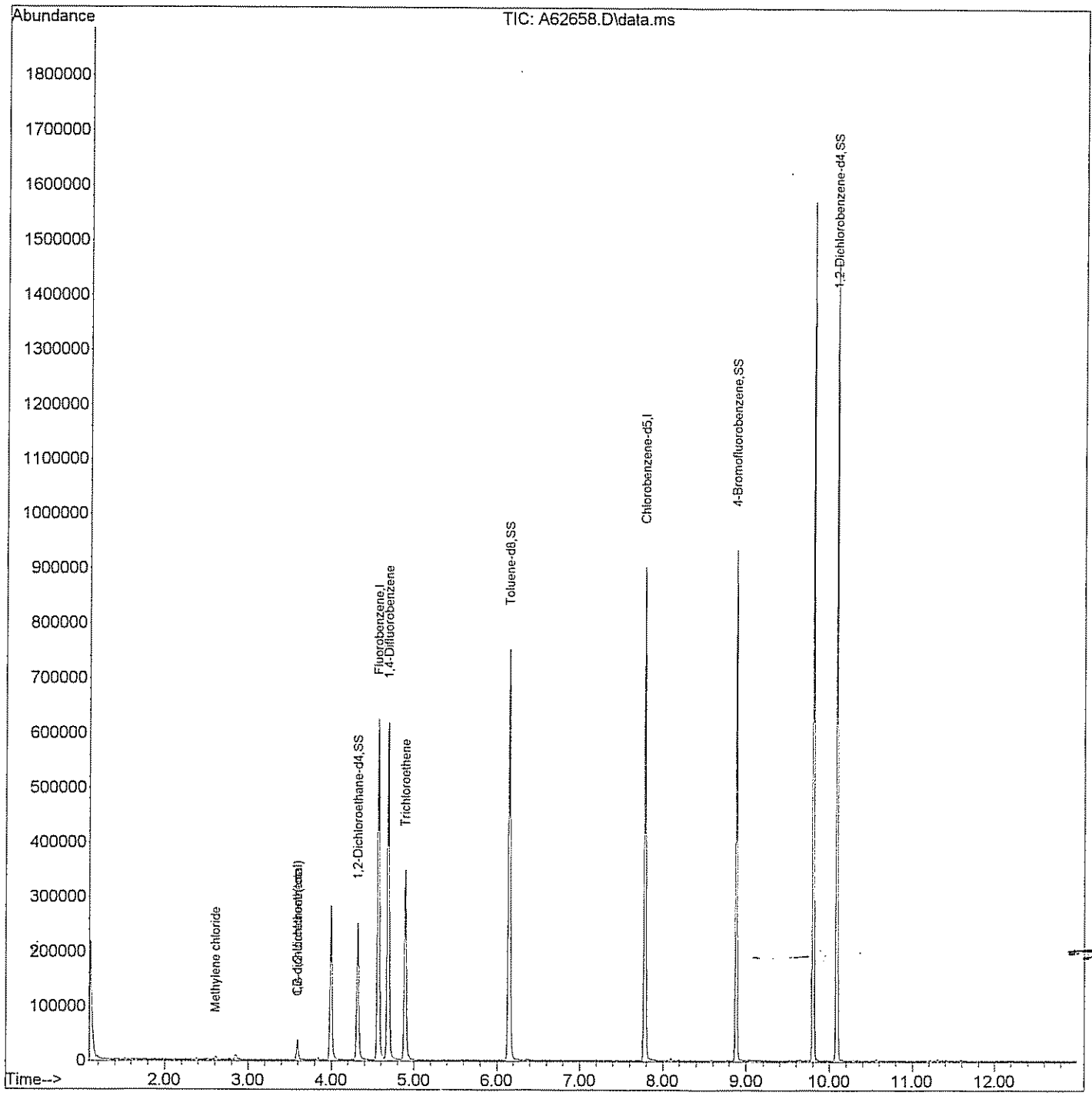
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.564	96	487556	50.00 ug/L	# 0.00
40) 1,4-Difluorobenzene	4.687	114	451288	50.00 ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	412129	50.00 ug/L	0.00
System Monitoring Compounds					
39) 1,2-Dichloroethane-d4	4.318	65	127983	47.51 ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 95.02%		
53) Toluene-d8	6.148	98	467863	46.71 ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 93.42%		
75) 4-Bromofluorobenzene	8.881	95	195637	47.83 ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 95.66%		
91) 1,2-Dichlorobenzene-d4	10.085	152	246001	55.14 ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 110.28%		
Target Compounds					Qvalue
15) Methylene chloride	2.612	84	1974	3.41 ug/L #	58
28) Cis-1,2-dichloroethene	3.596	96	11564	4.99 ug/L	84
29) 1,2-dichloroethene(total)	3.596	96	12549m	5.93 ug/L	
46) Trichloroethene	4.896	95	88974	35.67 ug/L	83

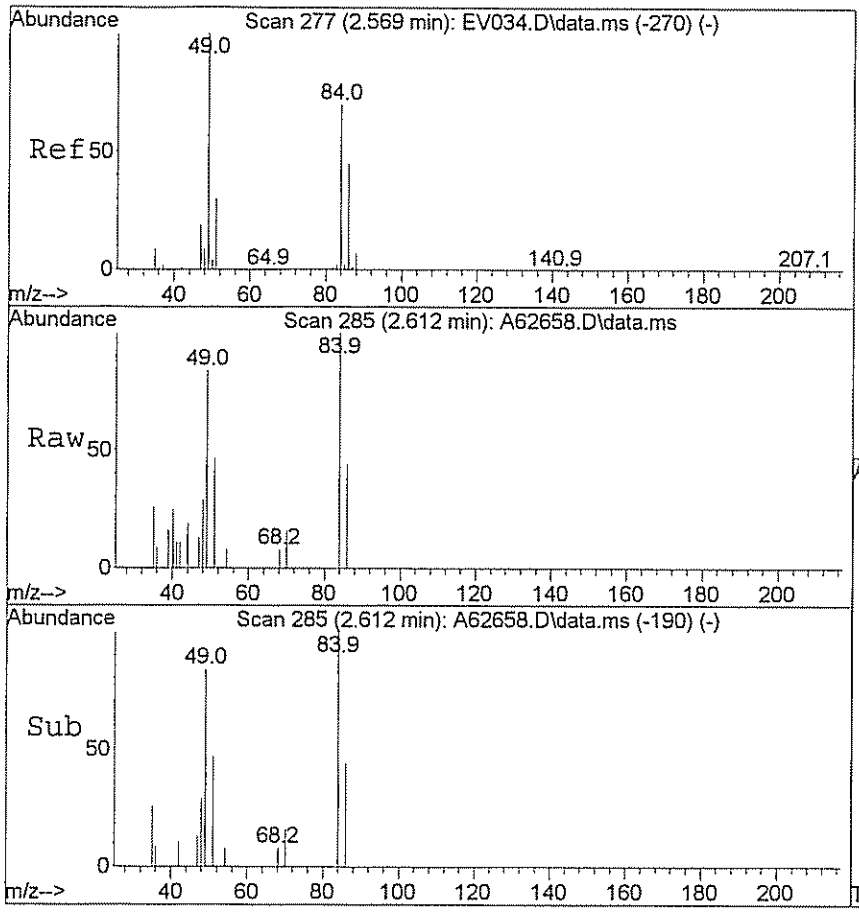
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62658.D
Acq On : 27 Mar 2009 6:55 pm
Operator : SM
Sample : 903125-002
Misc : OUI-52GW51-0309,CH2M HILL,50X
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Apr 01 13:47:31 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

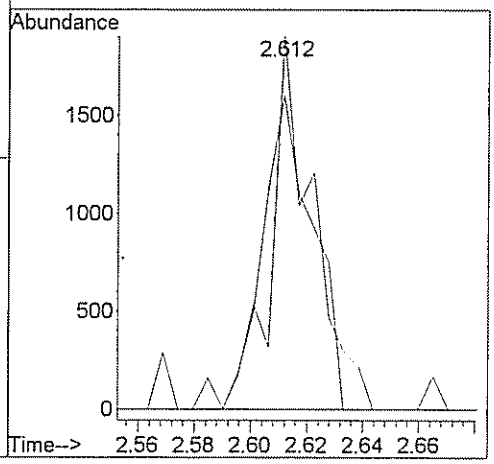


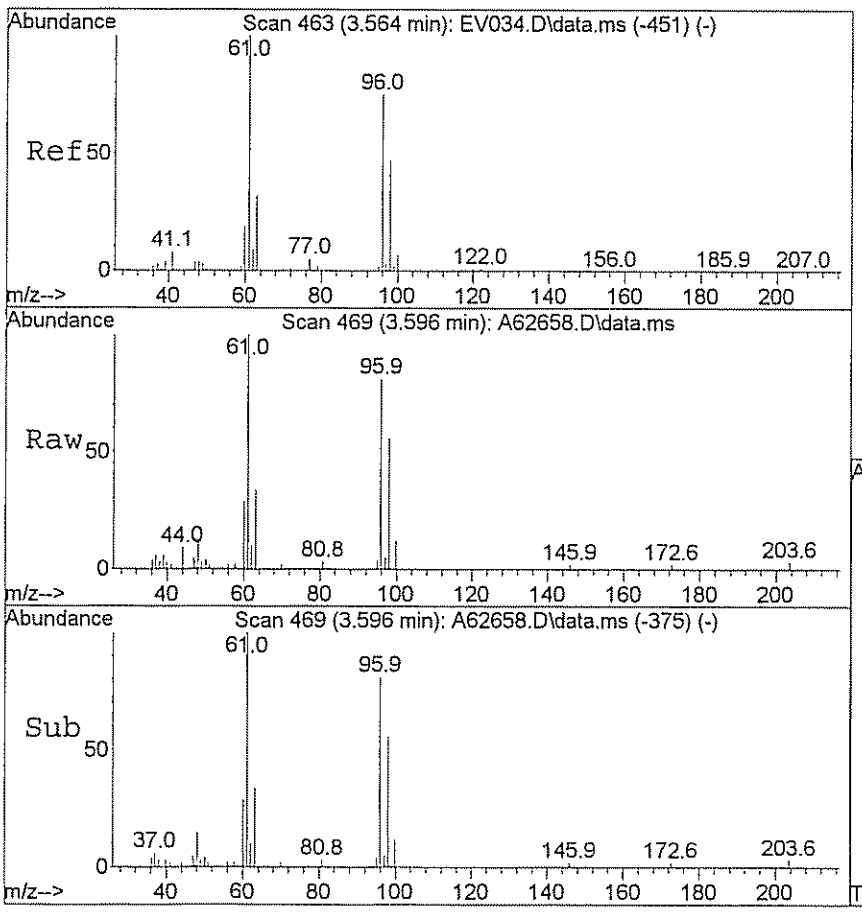


#15
Methylene chloride
Concen: 3.41 ug/L
RT: 2.612 min Scan# 285
Delta R.T. 0.006 min
Lab File: A62658.D
Acq: 27 Mar 2009 6:55 pm

Tgt Ion: 84 Resp: 1974

Ion	Ratio	Lower	Upper
84	100		
49	103.1	125.9	188.9#

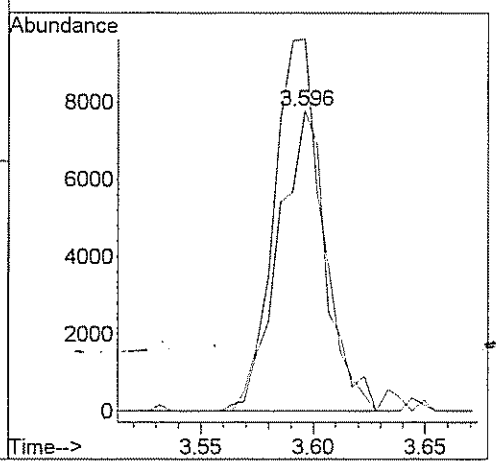


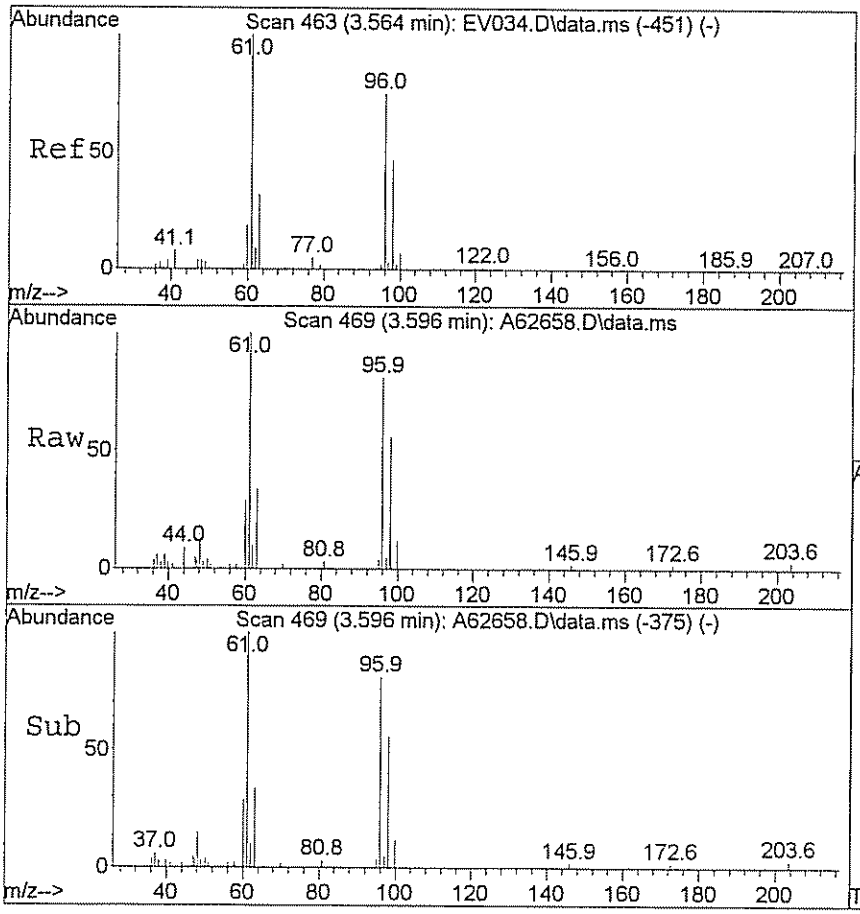


#28
Cis-1,2-dichloroethene
Concen: 4.99 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62658.D
Acq: 27 Mar 2009 6:55 pm

Tgt Ion: 96 Resp: 11564

Ion	Ratio	Lower	Upper
96	100		
61	124.1	115.0	172.6

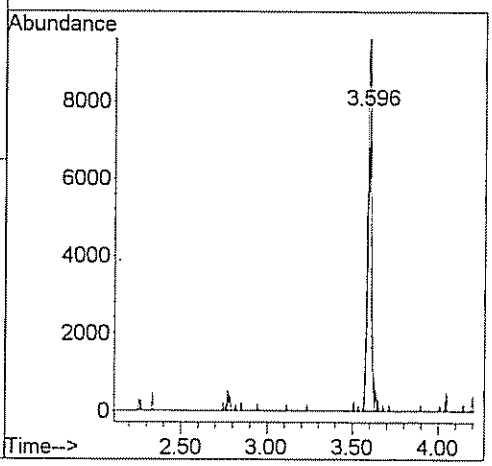


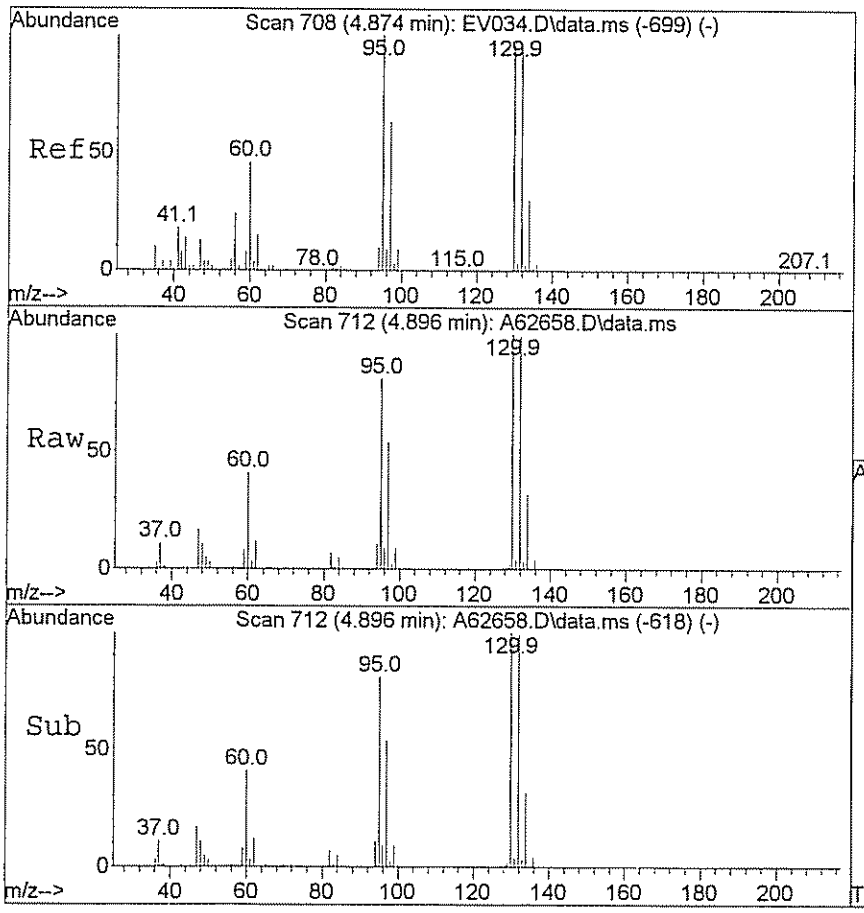


#29
1,2-dichloroethene(total)
Concen: 5.93 ug/L m
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62658.D
Acq: 27 Mar 2009 6:55 pm

Tgt Ion: 96 Resp: 12549

Ion	Ratio	Lower	Upper
96	100		
61	114.4	115.0	172.6#

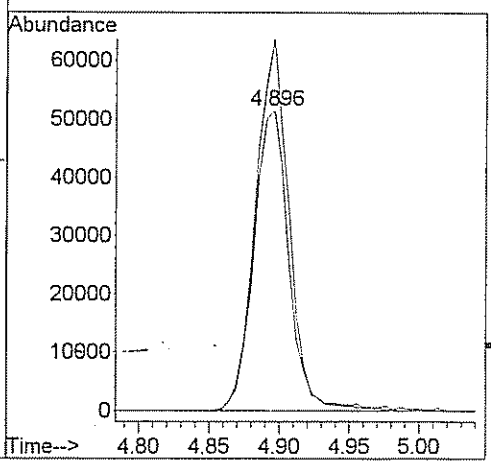




#46
Trichloroethene
Concen: 35.67 ug/L
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62658.D
Acq: 27 Mar 2009 6:55 pm

Tgt Ion: 95 Resp: 88974

Ion	Ratio	Lower	Upper
95	100		
130	116.7	79.7	119.5



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-003-007-1/3
Sample Volume :	5	Lab File ID :	A62660.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-003-007-1/3
Sample Volume :	5	Lab File ID :	A62660.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.4	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	2.6	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW40-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-003-007-1/3
Sample Volume :	5	Lab File ID :	A62660.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	3.1	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62660.D
Acq On : 27 Mar 2009 7:35 pm
Operator : SM
Sample : 903125-003
Misc : OUI-52GW40-0309,CH2M HILL,WATER
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Apr 01 13:50:15 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

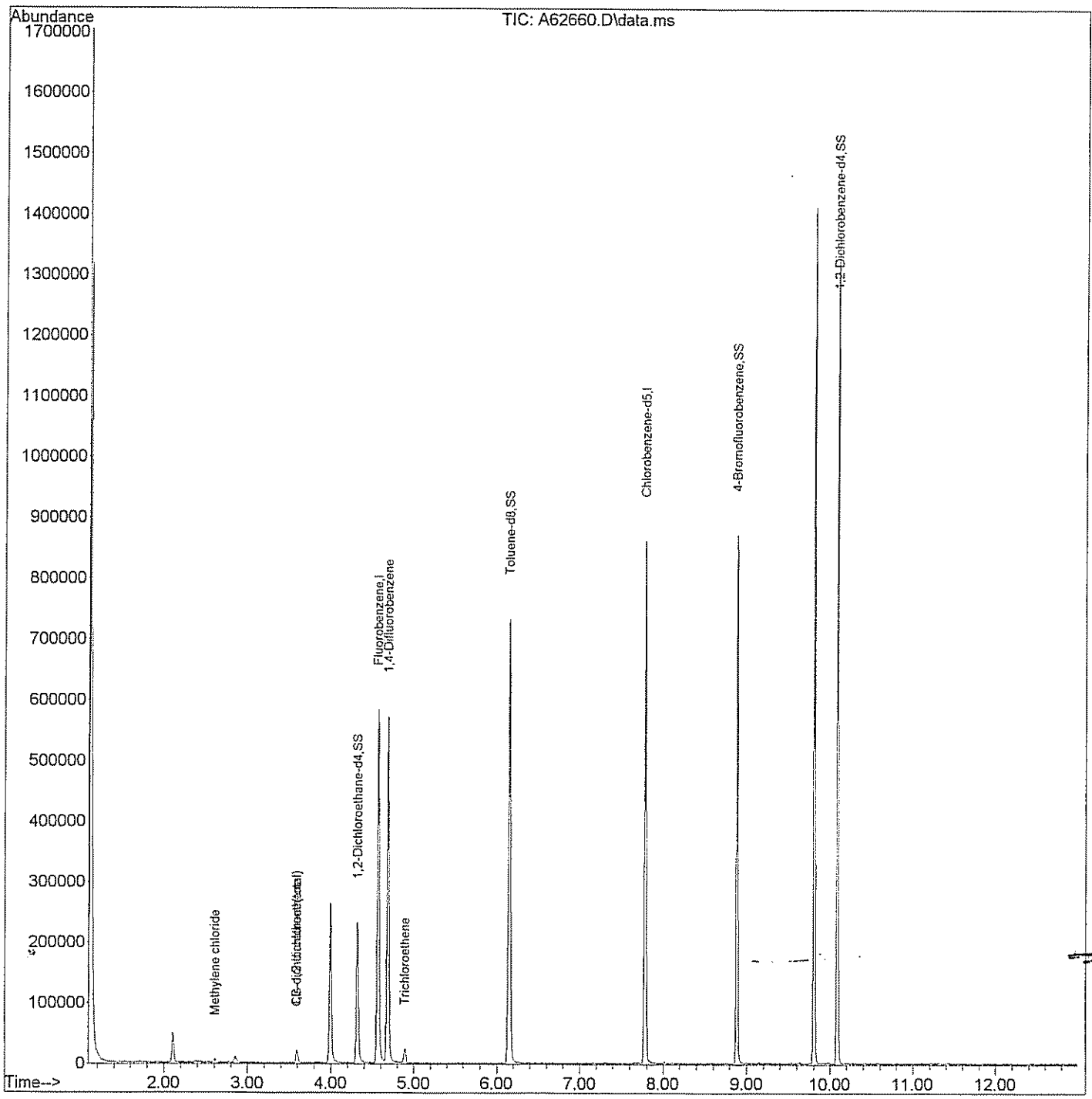
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	455263	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	415213	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	389461	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	125069	49.73	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 99.46%			
53) Toluene-d8	6.148	98	443018	48.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 96.14%			
75) 4-Bromofluorobenzene	8.881	95	188778	48.84	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.68%			
91) 1,2-Dichlorobenzene-d4	10.085	152	226467	53.71	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 107.42%			
Target Compounds						Qvalue
15) Methylene chloride	2.611	84	1739	3.36	ug/L	98
28) Cis-1,2-dichloroethene	3.590	96	6803	3.14	ug/L	98
29) 1,2-dichloroethene(total)	3.590	96	7444m	3.77	ug/L	
46) Trichloroethene	4.896	95	6042	2.63	ug/L	99

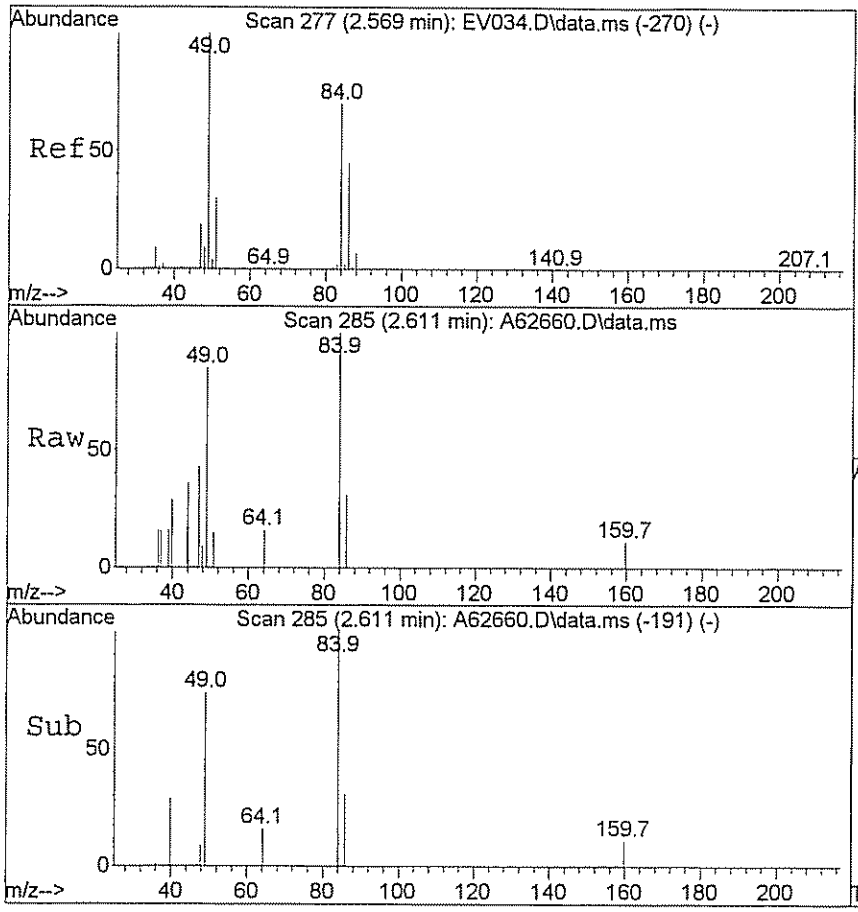
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709C2\
Data File : A62660.D
Acq On : 27 Mar 2009 7:35 pm
Operator : SM
Sample : 903125-003
Misc : OUI-52GW40-0309,CH2M HILL,WATER
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Apr 01 13:50:15 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

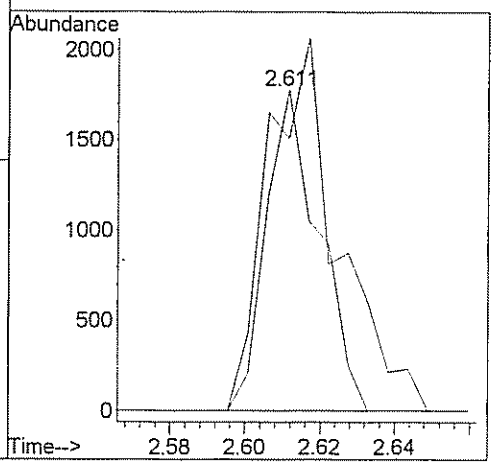


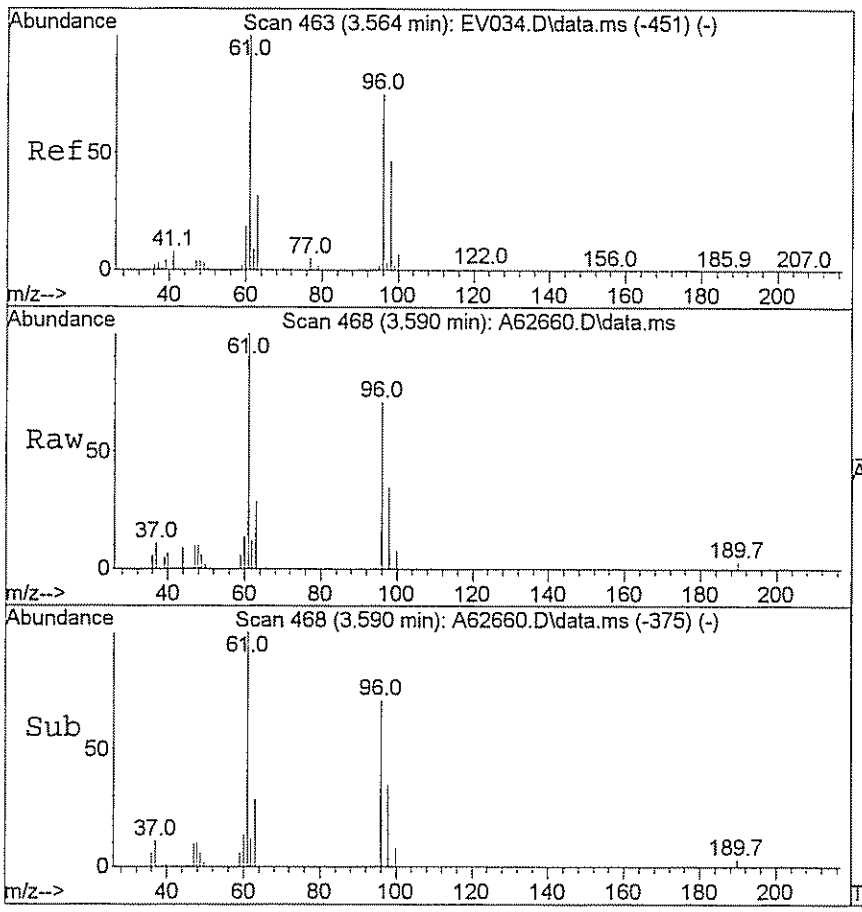


#15
Methylene chloride
Concen: 3.36 ug/L
RT: 2.611 min Scan# 285
Delta R.T. 0.005 min
Lab File: A62660.D
Acq: 27 Mar 2009 7:35 pm

Tgt Ion: 84 Resp: 1739

Ion	Ratio	Lower	Upper
84	100		
49	155.0	125.9	188.9

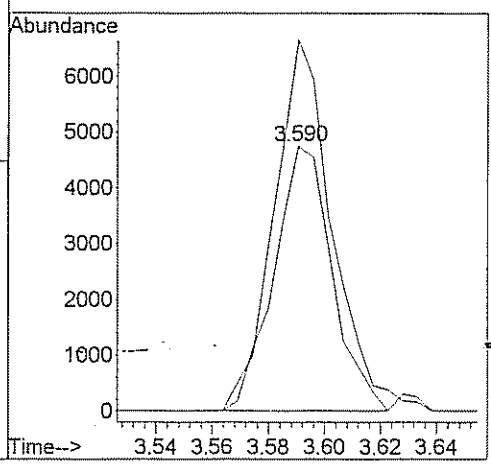


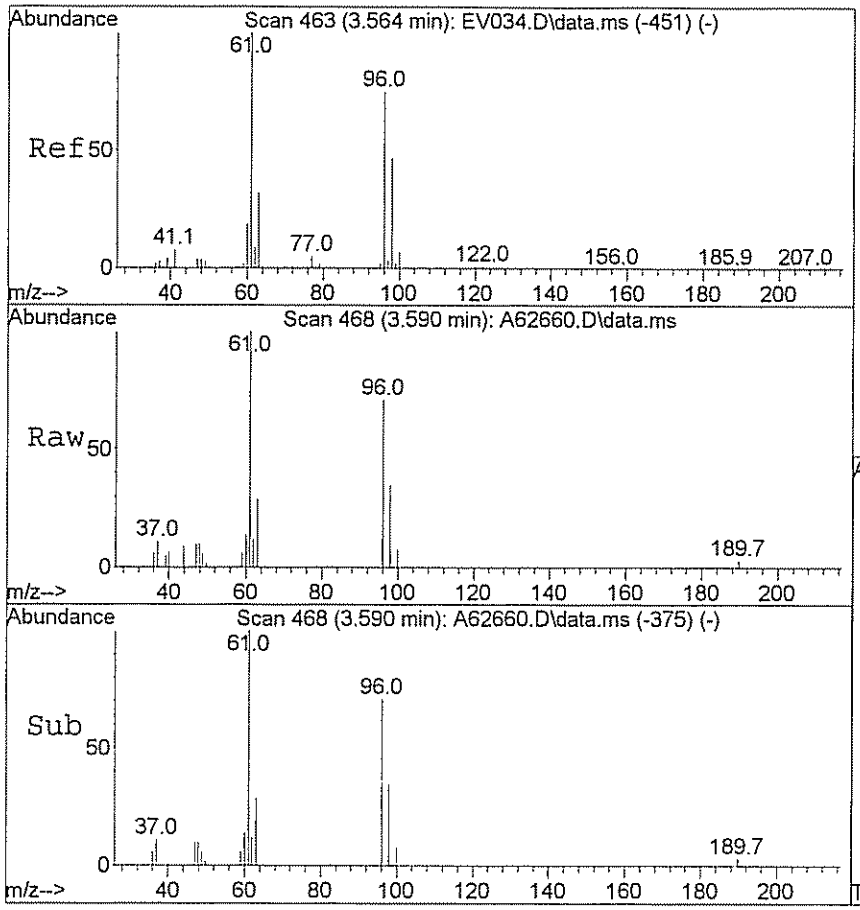


#28
Cis-1,2-dichloroethene
Concen: 3.14 ug/L
RT: 3.590 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62660.D
Acq: 27 Mar 2009 7:35 pm

Tgt Ion: 96 Resp: 6803

Ion	Ratio	Lower	Upper
96	100		
61	141.2	115.0	172.6

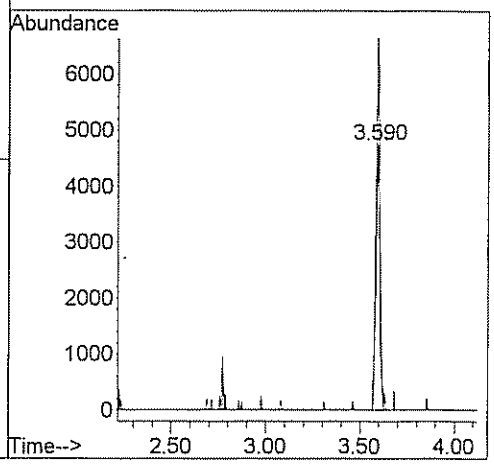


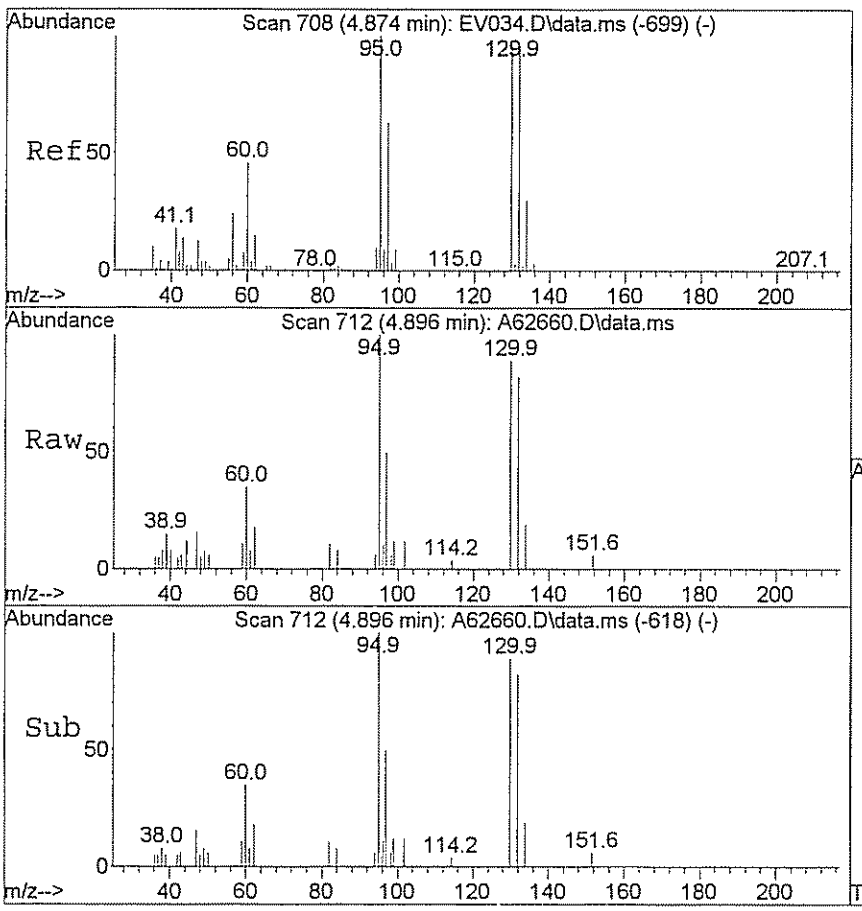


#29
1,2-dichloroethene(total)
Concen: 3.77 ug/L m
RT: 3.590 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62660.D
Acq: 27 Mar 2009 7:35 pm

Tgt Ion: 96 Resp: 7444

Ion	Ratio	Lower	Upper
96	100		
61	129.1	115.0	172.6

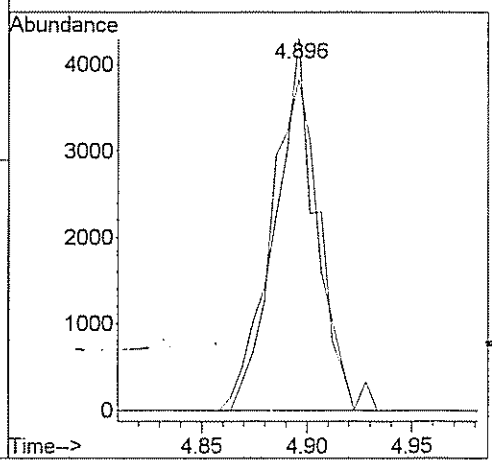




#46
Trichloroethene
Concen: 2.63 ug/L
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62660.D
Acq: 27 Mar 2009 7:35 pm

Tgt Ion: 95 Resp: 6042

Ion	Ratio	Lower	Upper
95	100		
130	98.4	79.7	119.5



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-004-010-1/3
Sample Volume :	5	Lab File ID :	A62672.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-004-010-1/3
Sample Volume :	5	Lab File ID :	A62672.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW69-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-004-010-1/3
Sample Volume :	5	Lab File ID :	A62672.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/27/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62672.D
Acq On : 27 Mar 2009 11:39 pm
Operator : SM
Sample : 903125-004
Misc : OUI-52GW69-0309,CH2M HILL,WATER
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Apr 01 15:04:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

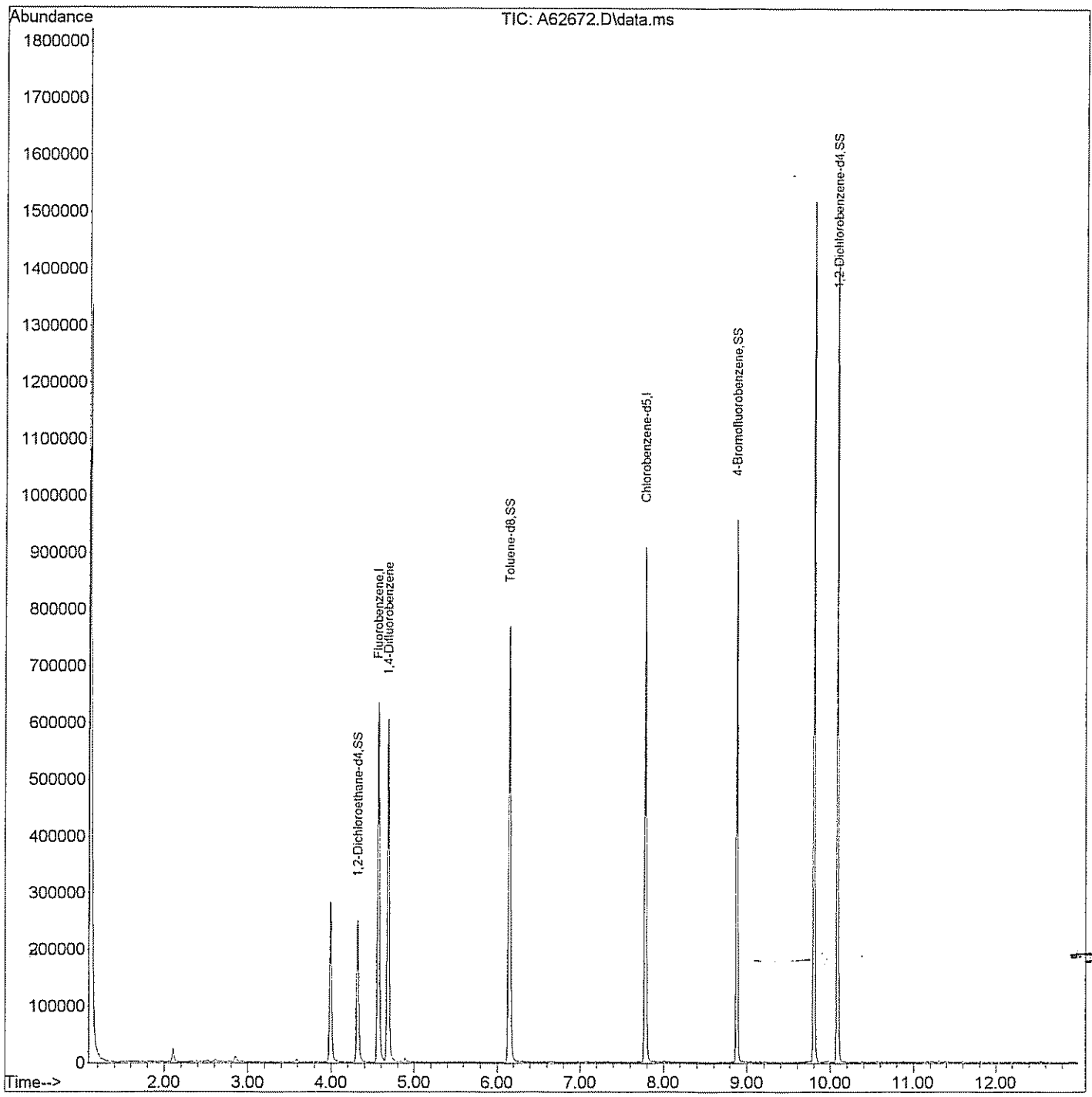
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		4.564	96	484408	50.00	ug/L	# 0.00
40) 1,4-Difluorobenzene		4.687	114	448775	50.00	ug/L	# 0.00
58) Chlorobenzene-d5		7.779	117	417994	50.00	ug/L	0.00
System Monitoring Compounds							
39) 1,2-Dichloroethane-d4		4.318	65	130627	48.81	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120		Recovery =	97.62%		
53) Toluene-d8		6.148	98	470954	47.28	ug/L	0.00
Spiked Amount	50.000	Range 85 - 120		Recovery =	94.56%		
75) 4-Bromofluorobenzene		8.881	95	197449	47.60	ug/L	0.00
Spiked Amount	50.000	Range 75 - 120		Recovery =	95.20%		
91) 1,2-Dichlorobenzene-d4		10.085	152	248728	54.97	ug/L	0.00
Spiked Amount	50.000	Range 64 - 132		Recovery =	109.94%		
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62672.D
Acq On : 27 Mar 2009 11:39 pm
Operator : SM
Sample : 903125-004
Misc : OUI-52GW69-0309,CH2M HILL,WATER
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Apr 01 15:04:24 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-013-1/3
Sample Volume :	5	Lab File ID :	A62674.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-013-1/3
Sample Volume :	5	Lab File ID :	A62674.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	1.0	U
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	460	E
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-013-1/3
Sample Volume :	5	Lab File ID :	A62674.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.4	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62674.D
Acq On : 28 Mar 2009 12:21 am
Operator : SM
Sample : 903125-005
Misc : OUI-52GW70-0309,CH2M HILL,WATER
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Apr 01 15:08:39 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

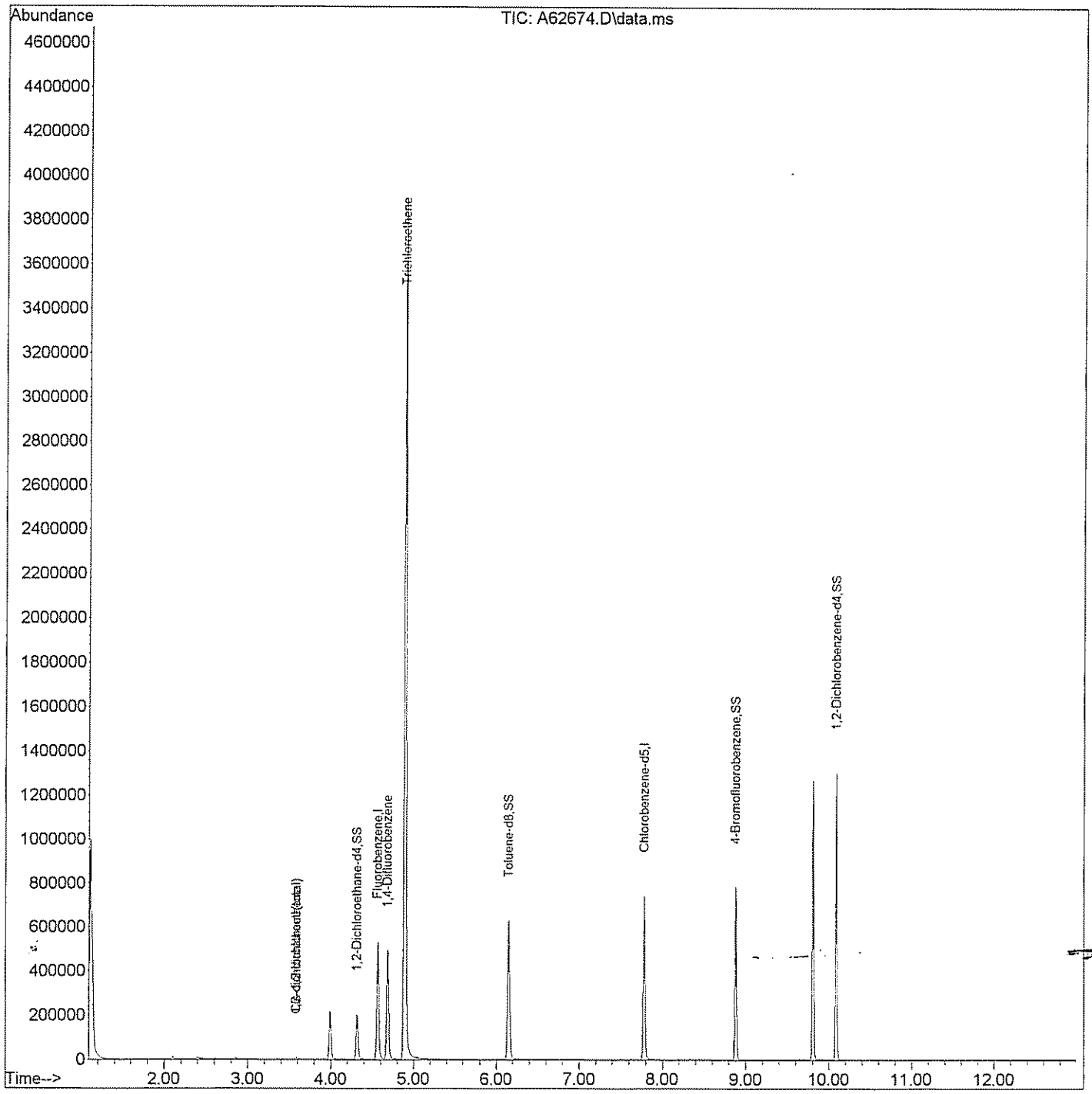
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.564	96	402875	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.682	114	366965	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	342567	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.313	65	112618	50.60	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 101.20%			
53) Toluene-d8	6.148	98	385651	47.35	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 94.70%			
75) 4-Bromofluorobenzene	8.881	95	165663	48.73	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 97.46%			
91) 1,2-Dichlorobenzene-d4	10.085	152	210529	56.77	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 113.54%			
Target Compounds						Qvalue
28) Cis-1,2-dichloroethene	3.585	96	2643	1.38	ug/L	85
29) 1,2-dichloroethene(total)	3.585	96	2643	1.51	ug/L	85
46) Trichloroethene	4.891	95	931591	459.32	ug/L #	79

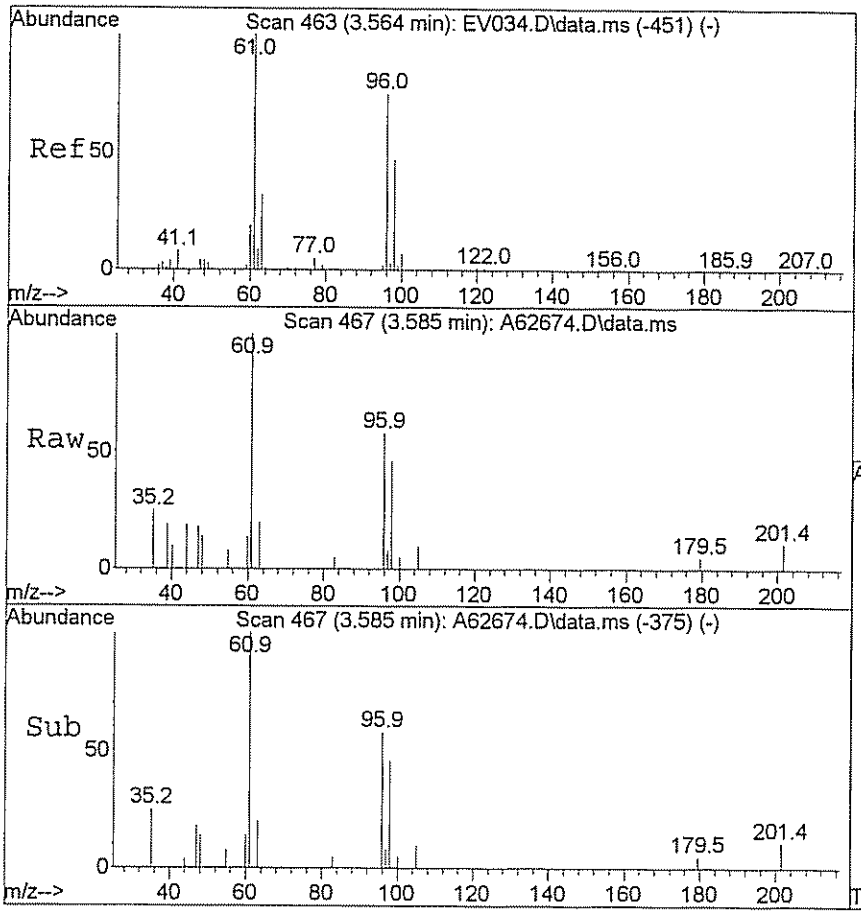
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62674.D
Acq On : 28 Mar 2009 12:21 am
Operator : SM
Sample : 903125-005
Misc : OUI-52GW70-0309,CH2M HILL,WATER
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Apr 01 15:08:39 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

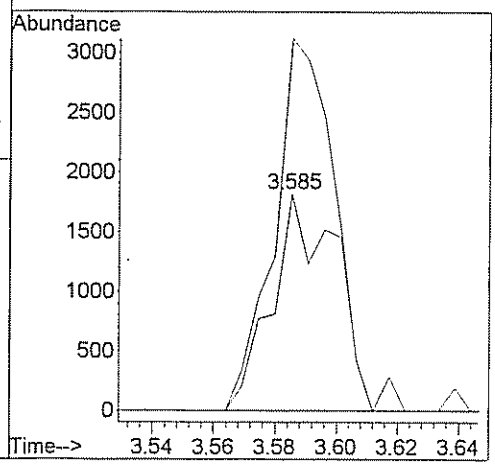


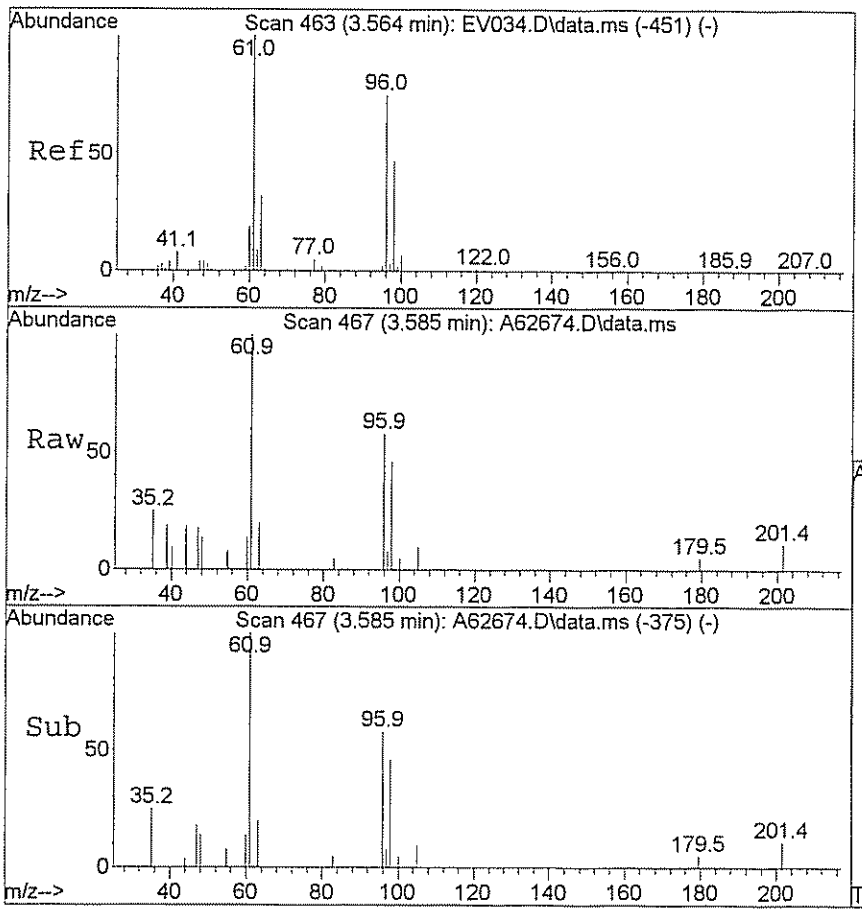


#28
Cis-1,2-dichloroethene
Concen: 1.38 ug/L
RT: 3.585 min Scan# 467
Delta R.T. -0.006 min
Lab File: A62674.D
Acq: 28 Mar 2009 12:21 am

Tgt Ion: 96 Resp: 2643

Ion	Ratio	Lower	Upper
96	100		
61	161.9	115.0	172.6

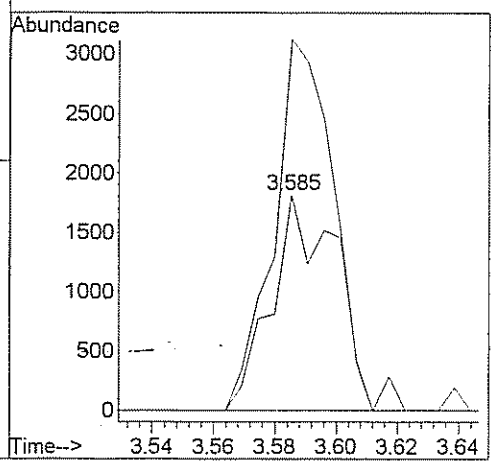


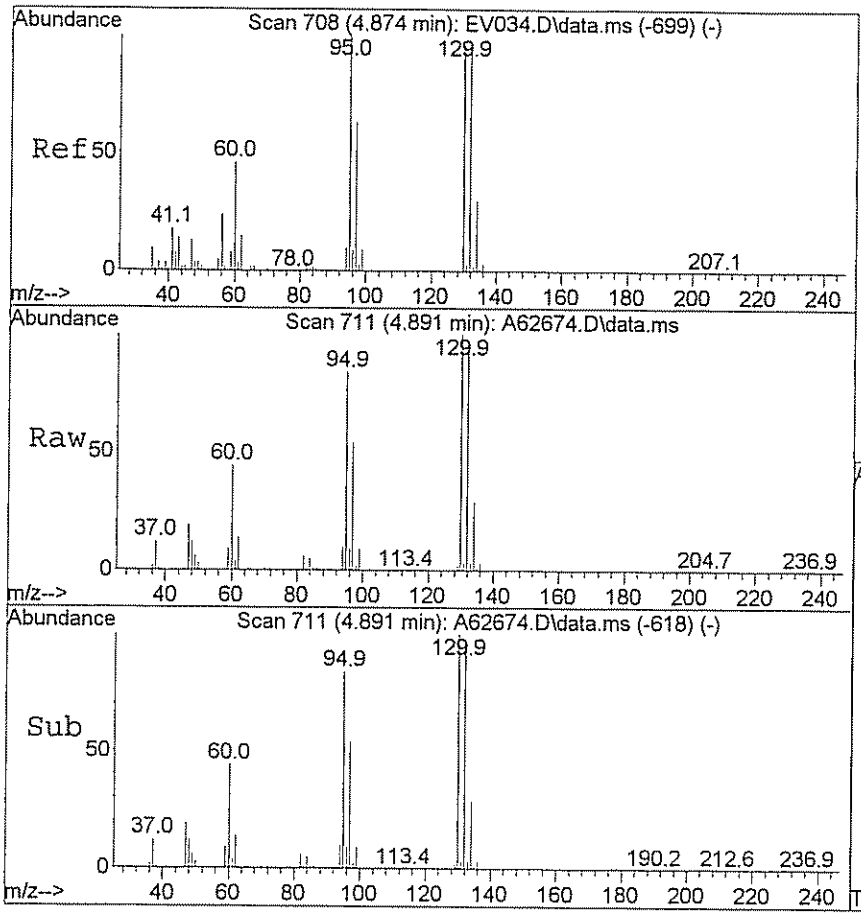


#29
1,2-dichloroethene(total)
Concen: 1.51 ug/L
RT: 3.585 min Scan# 467
Delta R.T. -0.006 min
Lab File: A62674.D
Acq: 28 Mar 2009 12:21 am

Tgt Ion: 96 Resp: 2643

Ion	Ratio	Lower	Upper
96	100		
61	161.9	115.0	172.6

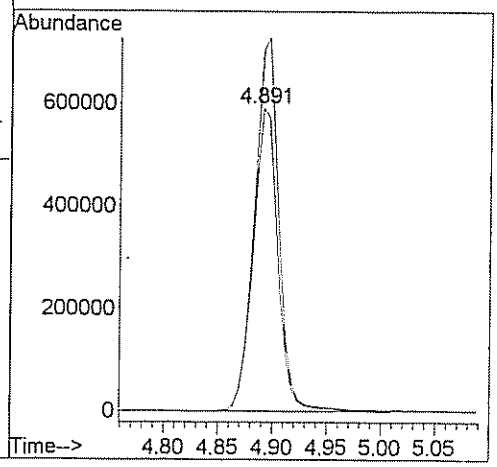




#46
Trichloroethene
Concen: 459.32 ug/L
RT: 4.891 min Scan# 711
Delta R.T. 0.000 min
Lab File: A62674.D
Acq: 28 Mar 2009 12:21 am

Tgt Ion: 95 Resp: 931591

Ion	Ratio	Lower	Upper
95	100		
130	120.5	79.7	119.5#



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-014-2/3
Sample Volume :	.5	Lab File ID :	A62765.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
563-58-6	1,1-Dichloropropene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
95-50-1	1,2-Dichlorobenzene	10	U
107-06-2	1,2-Dichloroethane	10	U
78-87-5	1,2-Dichloropropane	10	U
108-67-8	1,3,5-trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
142-28-9	1,3-Dichloropropane	10	U
106-46-7	1,4-Dichlorobenzene	10	U
594-20-7	2,2-Dichloropropane	10	U
78-93-3	2-Butanone	50	U
95-49-8	2-Chlorotoluene	10	U
591-78-6	2-Hexanone	50	U
106-43-4	4-Chlorotoluene	10	U
99-87-6	4-Isopropyltoluene	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
67-64-1	Acetone	50	U
71-43-2	Benzene	10	U
108-86-1	Bromobenzene	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-014-2/3
Sample Volume :	.5	Lab File ID :	A62765.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon Tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	10	U
74-95-3	Dibromomethane	10	U
75-71-8	Dichlorodifluoromethane	10	U
100-41-4	Ethylbenzene	10	U
106-93-4	Ethylene DiBromide	10	U
76-13-1	Freon 113	10	U
87-68-3	Hexachlorobutadiene	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl Acetate	10	U
108-87-2	Methylcyclohexane	10	U
75-09-2	Methylene Chloride	10	U
91-20-3	Naphthalene	10	U
135-98-8	Sec-Butylbenzene	10	U
100-42-5	Styrene	10	U
127-18-4	Tetrachloroethylene	10	U
108-88-3	Toluene	10	U
79-01-6	Trichloroethene	380	
75-69-4	Trichlorofluoromethane	10	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW70-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-005-014-2/3
Sample Volume :	.5	Lab File ID :	A62765.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/31/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	10
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl Chloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
136777-61-2	m,p-Xylene	10	U
104-51-8	n-Butylbenzene	10	U
103-65-1	n-Propylbenzene	10	U
95-47-6	o-Xylene	10	U
98-06-6	tert-Butylbenzene	10	U
1634-04-4	tert-butyl methyl ether	10	U
156-60-5	trans-1,2-dichloroethene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\033109C1\
Data File : A62765.D
Acq On : 31 Mar 2009 8:27 pm
Operator : SM
Sample : 903125-005
Misc : OU1-52GW70-0309,CH2M HILL,10X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 01 17:09:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C1_033109B.M
Quant Title : 8260
QLast Update : Thu Apr 02 00:51:18 2009
Response via : Initial Calibration

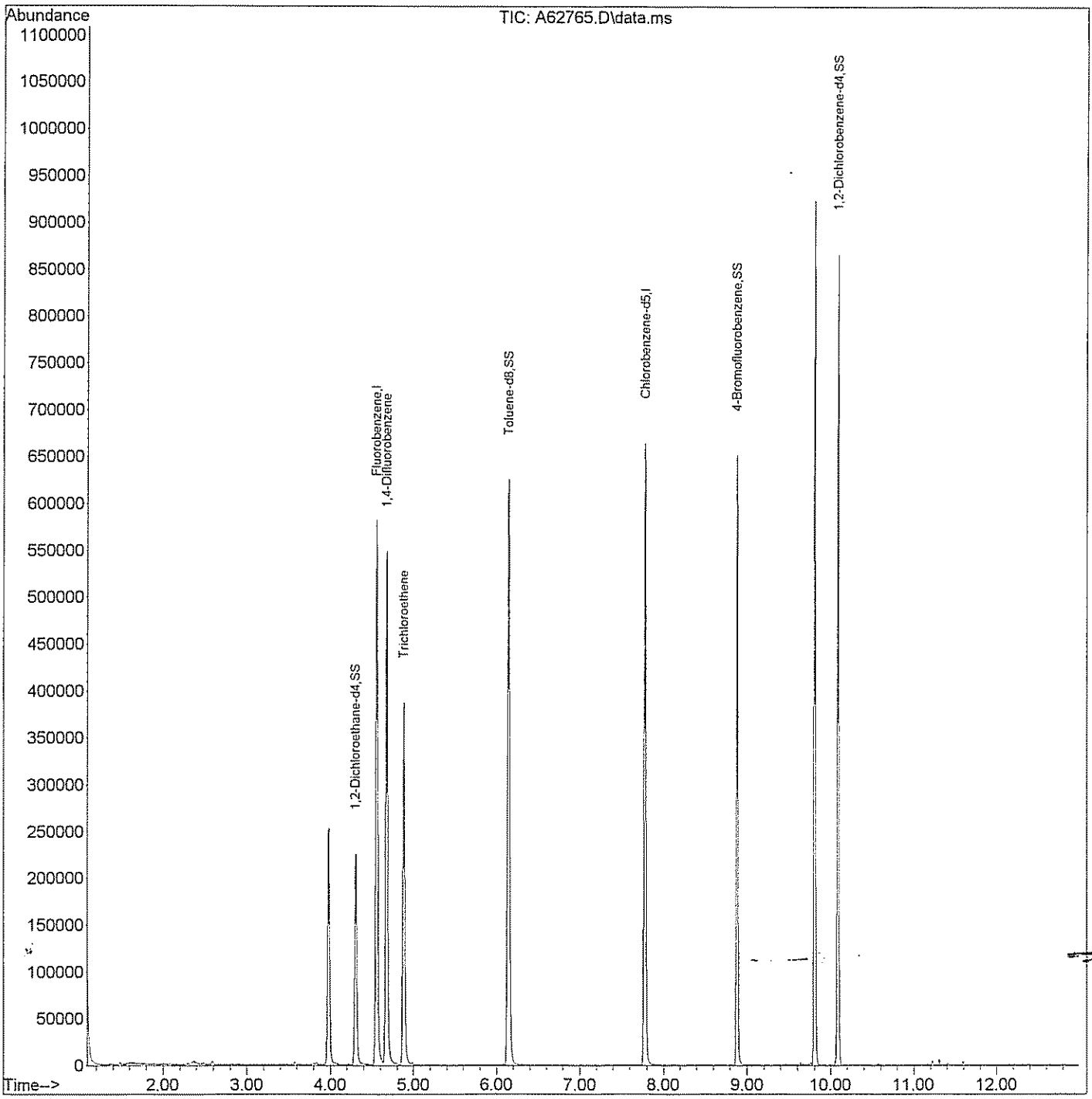
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.553	96	453613	50.00 ug/L	0.00
41) 1,4-Difluorobenzene	4.677	114	403708	50.00 ug/L	# 0.00
59) Chlorobenzene-d5	7.779	117	322080	50.00 ug/L	0.00
System Monitoring Compounds					
40) 1,2-Dichloroethane-d4	4.302	65	126090	48.62 ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 97.24%		
54) Toluene-d8	6.142	98	393835	47.25 ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 94.50%		
76) 4-Bromofluorobenzene	8.881	95	140739	51.16 ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 102.32%		
92) 1,2-Dichlorobenzene-d4	10.085	152	151556	48.84 ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 97.68%		
Target Compounds					Qvalue
47) Trichloroethene	4.885	95	98562	38.56 ug/L	81

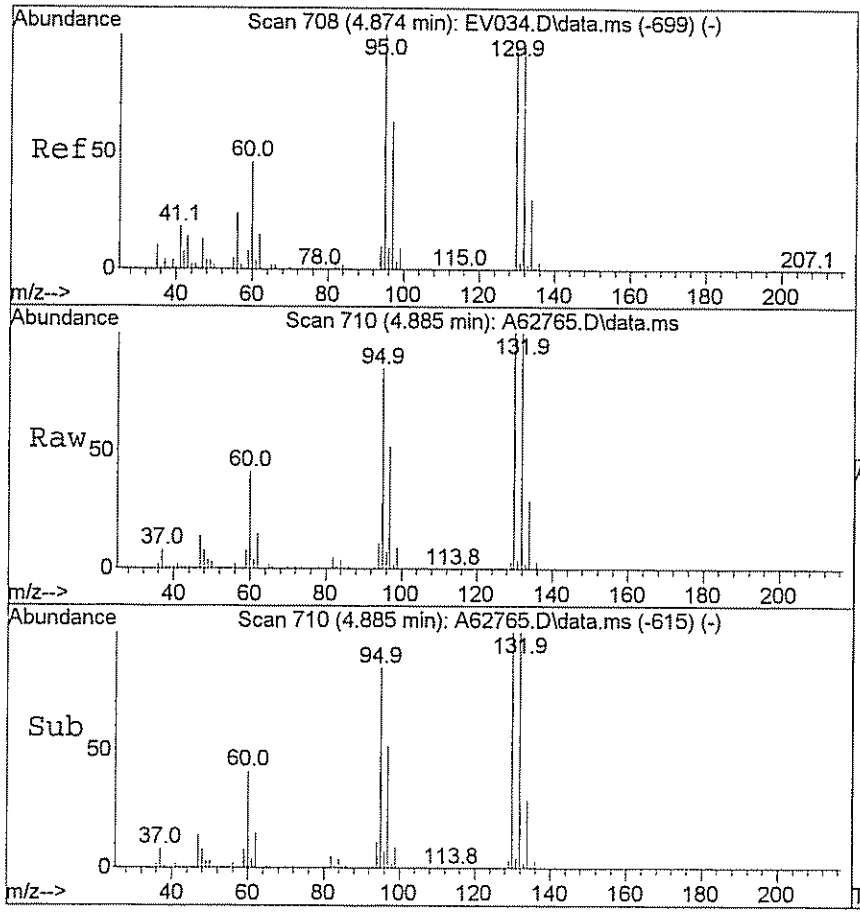
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\033109C1\
Data File : A62765.D
Acq On : 31 Mar 2009 8:27 pm
Operator : SM
Sample : 903125-005
Misc : OU1-52GW70-0309,CH2M HILL,10X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 01 17:09:59 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C1_033109B.M
Quant Title : 8260
QLast Update : Thu Apr 02 00:51:18 2009
Response via : Initial Calibration

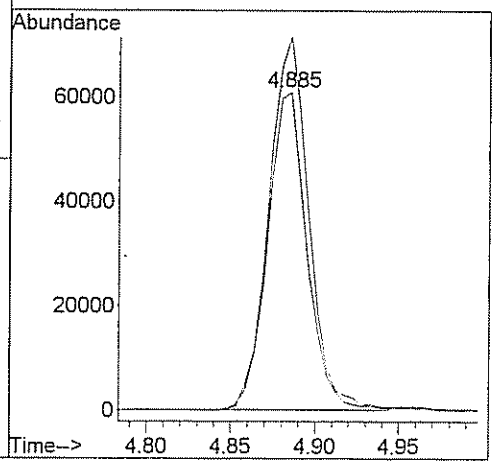




#47
Trichloroethene
Concen: 38.56 ug/L
RT: 4.885 min Scan# 710
Delta R.T. 0.006 min
Lab File: A62765.D
Acq: 31 Mar 2009 8:27 pm

Tgt Ion: 95 Resp: 98562

Ion	Ratio	Lower	Upper
95	100		
130	119.1	79.7	119.5



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-006-016-1/3
Sample Volume :	.1	Lab File ID :	A62676.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
563-58-6	1,1-Dichloropropene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
96-12-8	1,2-Dibromo-3-Chloropropane	100	U
95-50-1	1,2-Dichlorobenzene	50	U
107-06-2	1,2-Dichloroethane	50	U
78-87-5	1,2-Dichloropropane	50	U
108-67-8	1,3,5-trimethylbenzene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
142-28-9	1,3-Dichloropropane	50	U
106-46-7	1,4-Dichlorobenzene	50	U
594-20-7	2,2-Dichloropropane	50	U
78-93-3	2-Butanone	250	U
95-49-8	2-Chlorotoluene	50	U
591-78-6	2-Hexanone	250	U
106-43-4	4-Chlorotoluene	50	U
99-87-6	4-Isopropyltoluene	50	U
108-10-1	4-Methyl-2-Pentanone	250	U
67-64-1	Acetone	250	U
71-43-2	Benzene	50	U
108-86-1	Bromobenzene	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-006-016-1/3
Sample Volume :	.1	Lab File ID :	A62676.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	50	U
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
75-15-0	Carbon Disulfide	50	U
56-23-5	Carbon Tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
110-82-7	Cyclohexane	50	U
124-48-1	Dibromochloromethane	50	U
74-95-3	Dibromomethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
100-41-4	Ethylbenzene	50	U
106-93-4	Ethylene DiBromide	50	U
76-13-1	Freon 113	50	U
87-68-3	Hexachlorobutadiene	50	U
98-82-8	Isopropylbenzene	50	U
79-20-9	Methyl Acetate	50	U
108-87-2	Methylcyclohexane	50	U
75-09-2	Methylene Chloride	160	
91-20-3	Naphthalene	50	U
135-98-8	Sec-Butylbenzene	50	U
100-42-5	Styrene	50	U
127-18-4	Tetrachloroethylene	50	U
108-88-3	Toluene	50	U
79-01-6	Trichloroethene	950	
75-69-4	Trichlorofluoromethane	50	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW37-0309DL

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-006-016-1/3
Sample Volume :	.1	Lab File ID :	A62676.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	50
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	50	U
75-01-4	Vinyl Chloride	50	U
156-59-2	cis-1,2-Dichloroethene	200	
10061-01-5	cis-1,3-Dichloropropene	50	U
136777-61-2	m,p-Xylene	50	U
104-51-8	n-Butylbenzene	50	U
103-65-1	n-Propylbenzene	50	U
95-47-6	o-Xylene	50	U
98-06-6	tert-Butylbenzene	50	U
1634-04-4	tert-butyl methyl ether	50	U
156-60-5	trans-1,2-dichloroethene	50	U
10061-02-6	trans-1,3-dichloropropene	50	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62676.D
Acq On : 28 Mar 2009 1:01 am
Operator : SM
Sample : 903125-006
Misc : OUI-52GW37-0309,CH2M HILL,50X
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Apr 01 15:10:38 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

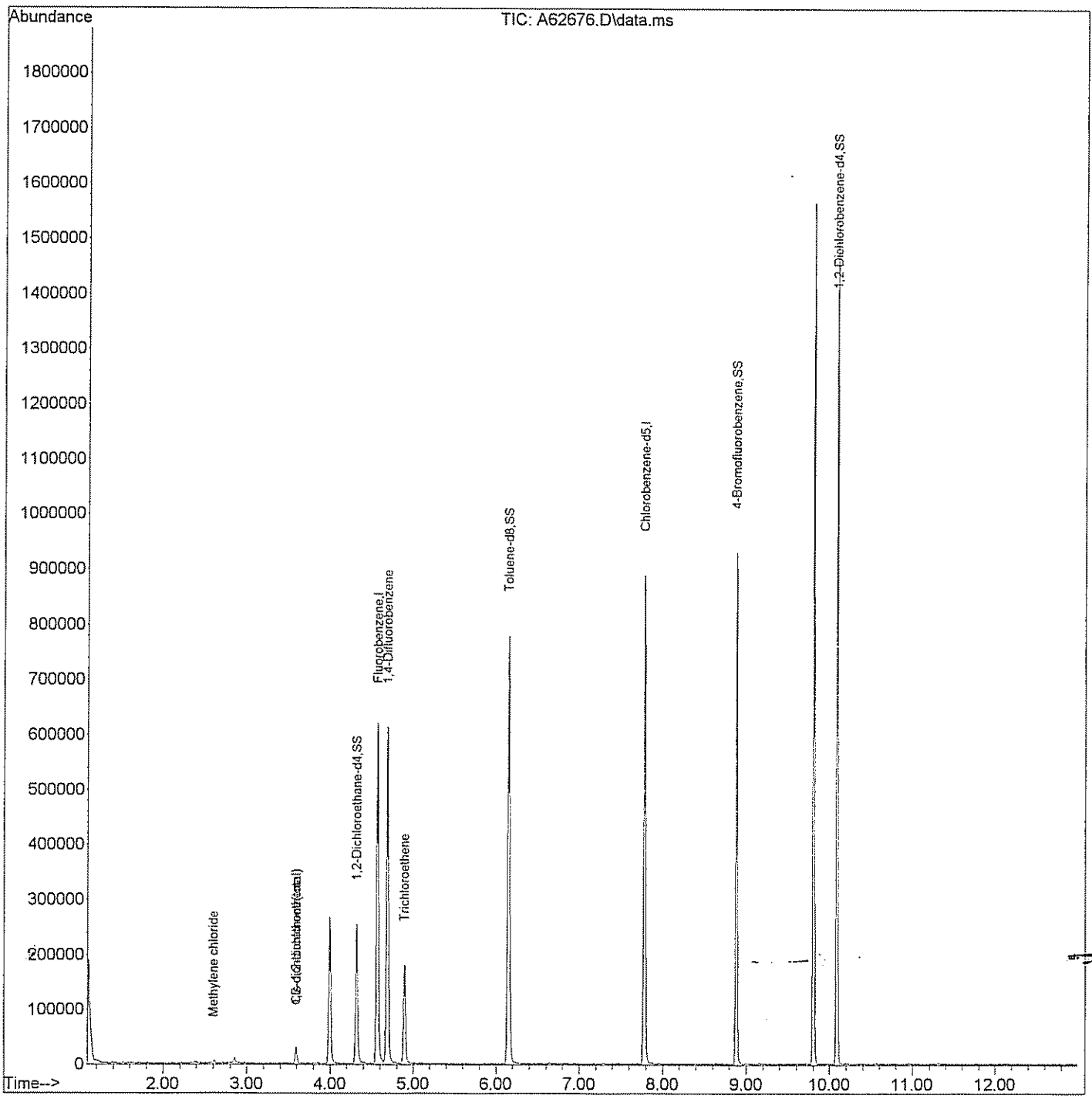
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.569	96	486270	50.00 ug/L	# 0.00
40) 1,4-Difluorobenzene	4.687	114	448524	50.00 ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	422032	50.00 ug/L	0.00
System Monitoring Compounds					
39) 1,2-Dichloroethane-d4	4.318	65	127603	47.50 ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 95.00%		
53) Toluene-d8	6.148	98	467508	46.96 ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 93.92%		
75) 4-Bromofluorobenzene	8.881	95	194146	46.35 ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 92.70%		
91) 1,2-Dichlorobenzene-d4	10.085	152	247332	54.13 ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 108.26%		
Target Compounds					Qvalue
15) Methylene chloride	2.606	84	1541	3.22 ug/L	96
28) Cis-1,2-dichloroethene	3.596	96	9462	4.09 ug/L	84
29) 1,2-dichloroethene(total)	3.596	96	10394m	4.92 ug/L	
46) Trichloroethene	4.896	95	47043	18.98 ug/L	91

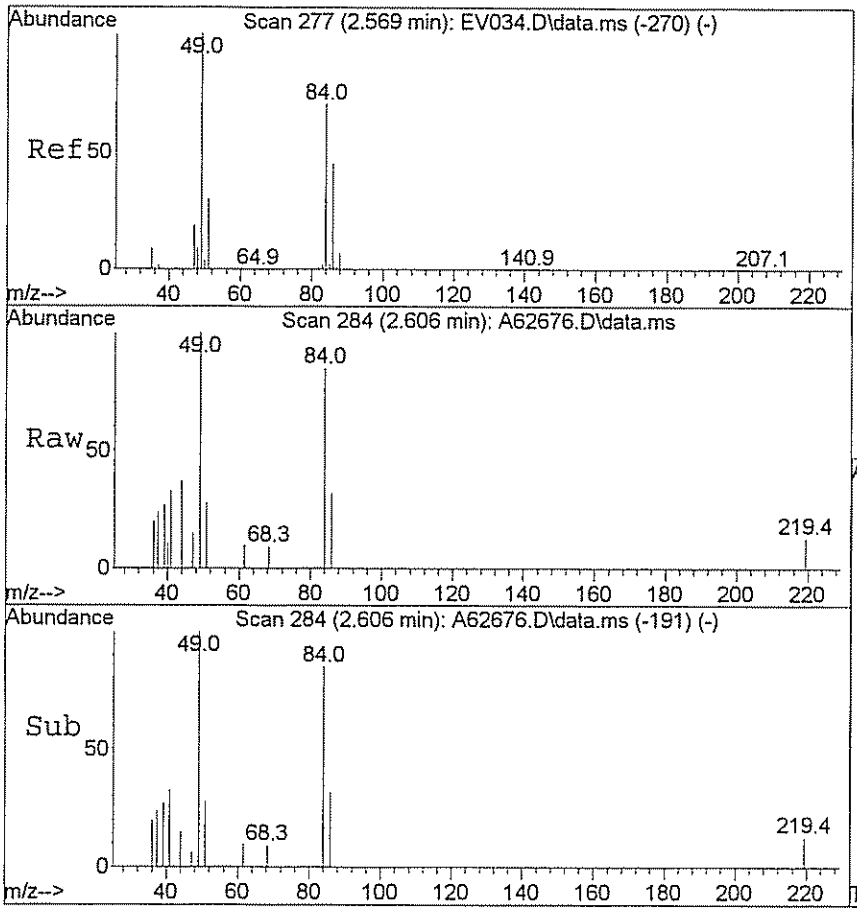
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62676.D
Acq On : 28 Mar 2009 1:01 am
Operator : SM
Sample : 903125-006
Misc : OUI-52GW37-0309,CH2M HILL,50X
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Apr 01 15:10:38 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

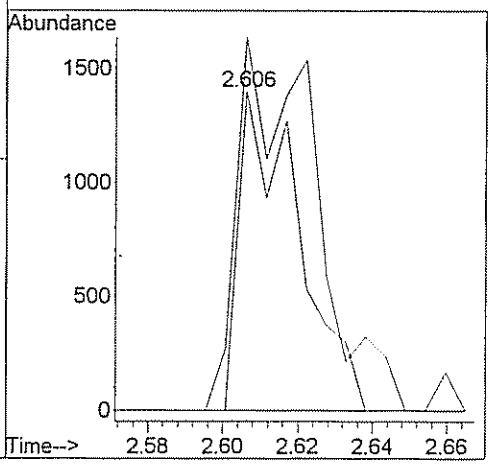


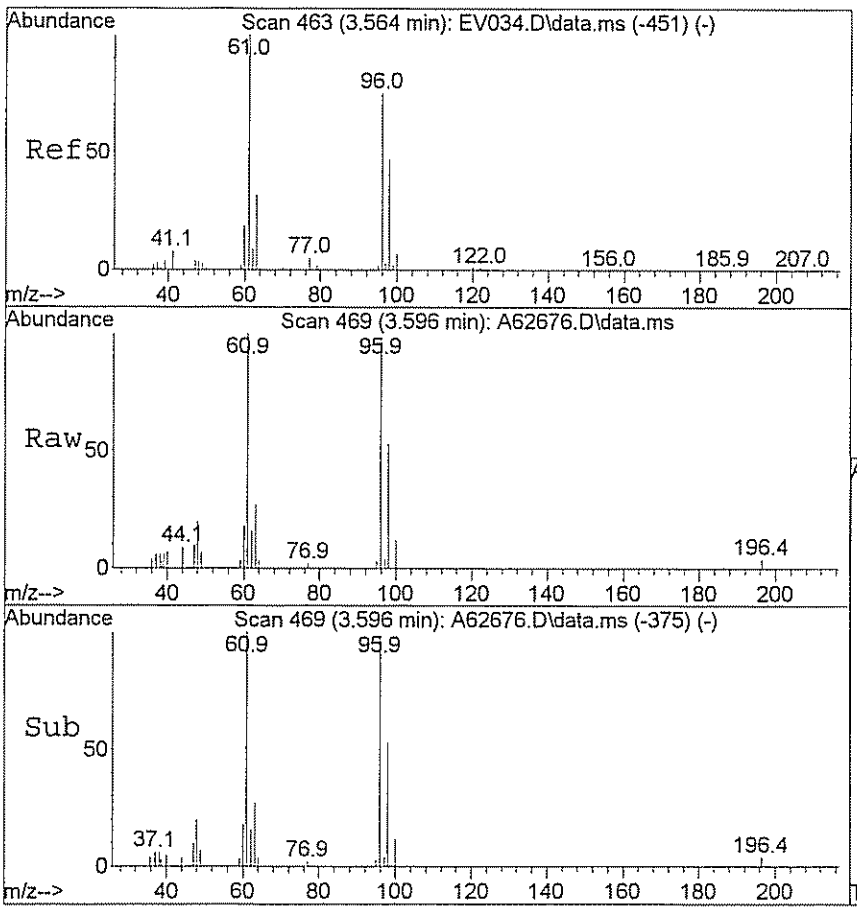


#15
Methylene chloride
Concen: 3.22 ug/L
RT: 2.606 min Scan# 284
Delta R.T. 0.000 min
Lab File: A62676.D
Acq: 28 Mar 2009 1:01 am

Tgt Ion: 84 Resp: 1541

Ion	Ratio	Lower	Upper
84	100		
49	151.8	125.9	188.9

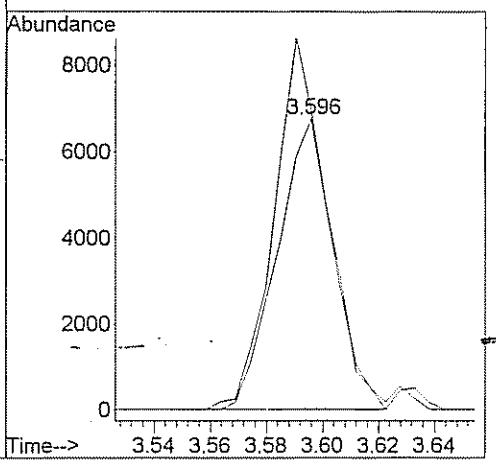


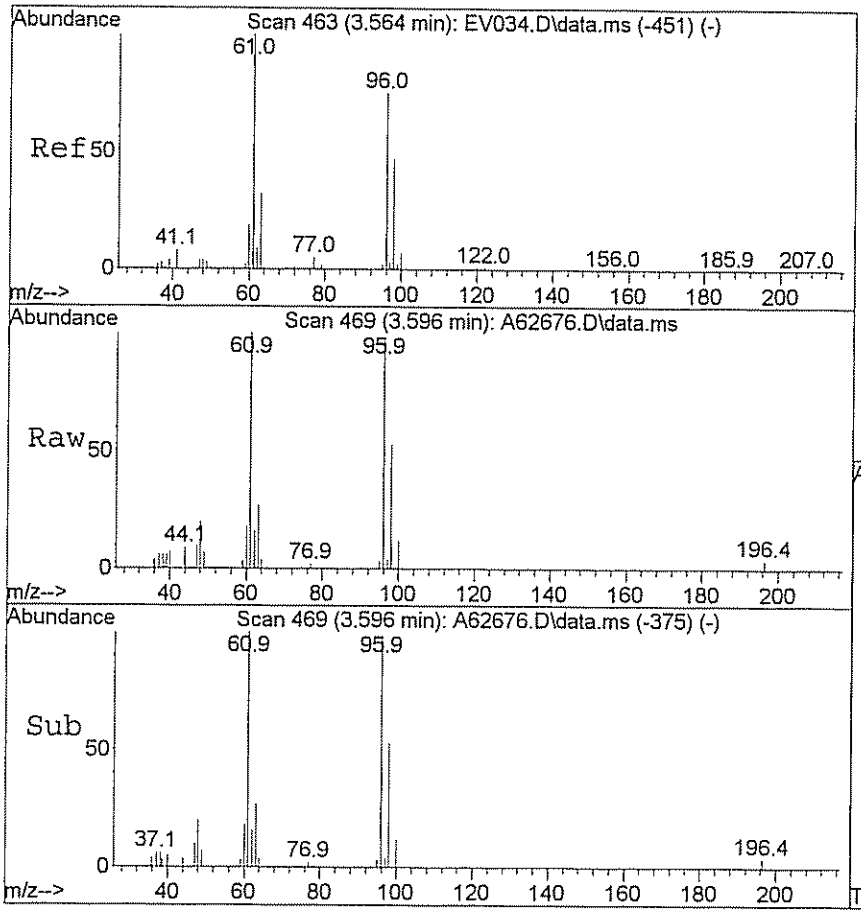


#28
Cis-1,2-dichloroethene
Concen: 4.09 ug/L
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62676.D
Acq: 28 Mar 2009 1:01 am

Tgt Ion: 96 Resp: 9462

Ion	Ratio	Lower	Upper
96	100		
61	123.5	115.0	172.6

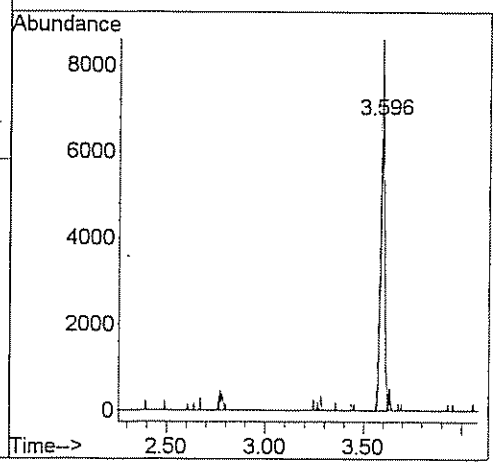


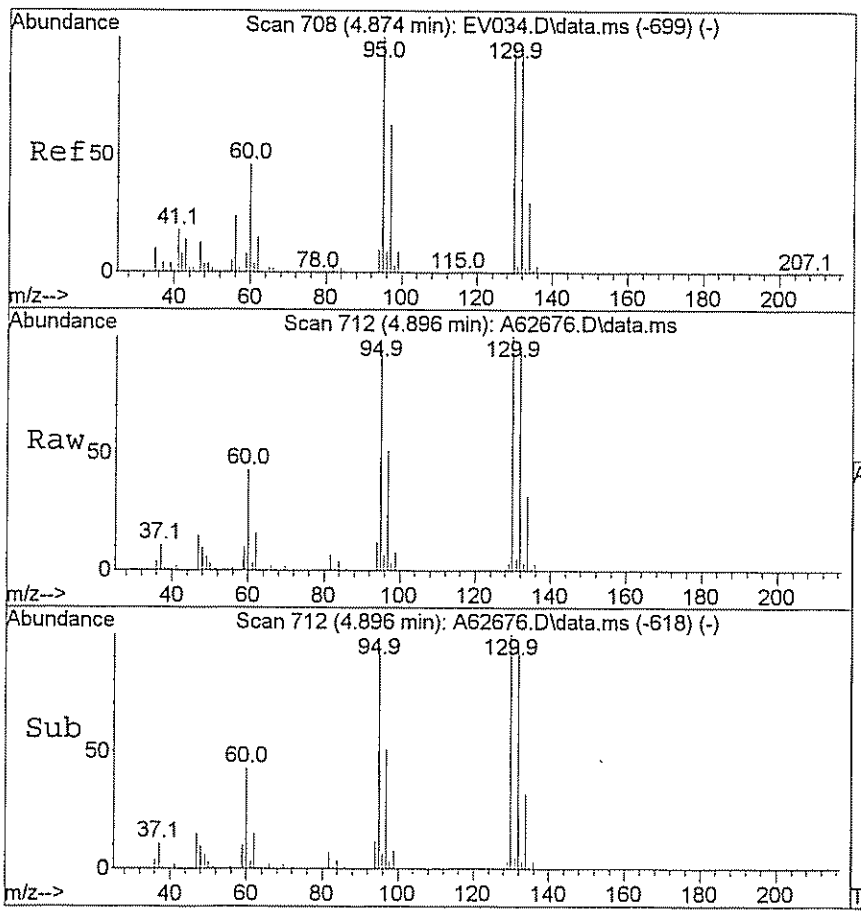


#29
1,2-dichloroethene(total)
Concen: 4.92 ug/L m
RT: 3.596 min Scan# 469
Delta R.T. 0.005 min
Lab File: A62676.D
Acq: 28 Mar 2009 1:01 am

Tgt Ion: 96 Resp: 10394

Ion	Ratio	Lower	Upper
96	100		
61	112.4	115.0	172.6#

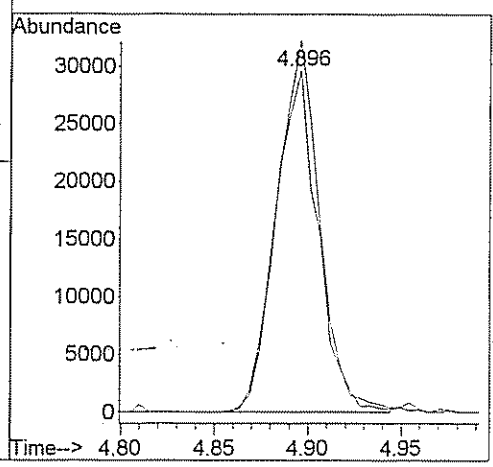




#46
Trichloroethene
Concen: 18.98 ug/L
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62676.D
Acq: 28 Mar 2009 1:01 am

Tgt Ion: 95 Resp: 47043

Ion	Ratio	Lower	Upper
95	100		
130	109.1	79.7	119.5



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-007-019-1/3
Sample Volume :	5	Lab File ID :	A62678.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.1	
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-007-019-1/3
Sample Volume :	5	Lab File ID :	A62678.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.7	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	18	
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW41-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-007-019-1/3
Sample Volume :	5	Lab File ID :	A62678.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	4.2	
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62678.D
Acq On : 28 Mar 2009 1:42 am
Operator : SM
Sample : 903125-007
Misc : OUI-52GW41-0309,CH2M HILL,WATER
ALS Vial : 75 Sample Multiplier: 1

Quant Time: Apr 01 15:13:48 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

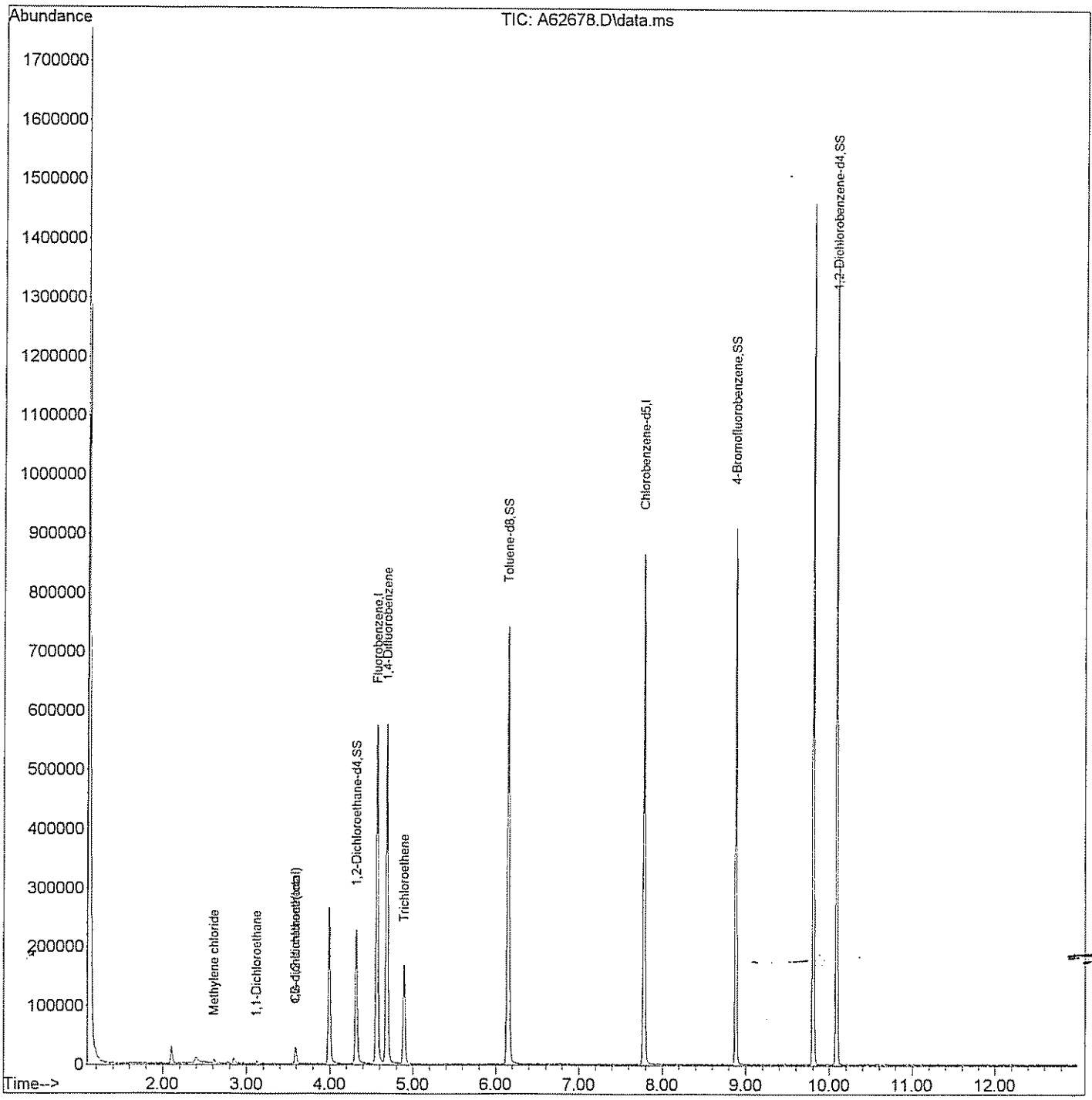
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.569	96	449763	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	4.687	114	430779	50.00	ug/L	# 0.00
58) Chlorobenzene-d5	7.779	117	404979	50.00	ug/L	0.00
System Monitoring Compounds						
39) 1,2-Dichloroethane-d4	4.318	65	119376	48.04	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 96.08%			
53) Toluene-d8	6.148	98	448365	46.89	ug/L	0.00
Spiked Amount 50.000	Range 85 - 120		Recovery = 93.78%			
75) 4-Bromofluorobenzene	8.881	95	186994	46.53	ug/L	0.00
Spiked Amount 50.000	Range 75 - 120		Recovery = 93.06%			
91) 1,2-Dichlorobenzene-d4	10.085	152	233018	53.15	ug/L	0.00
Spiked Amount 50.000	Range 64 - 132		Recovery = 106.30%			
Target Compounds						Qvalue
15) Methylene chloride	2.617	84	2446	3.70	ug/L #	52
18) 1,1-Dichloroethane	3.120	63	3501	1.09	ug/L	98
28) Cis-1,2-dichloroethene	3.590	96	8974	4.19	ug/L	85
29) 1,2-dichloroethene(total)	3.590	96	9591m	4.91	ug/L	
46) Trichloroethene	4.896	95	42878	18.01	ug/L	84

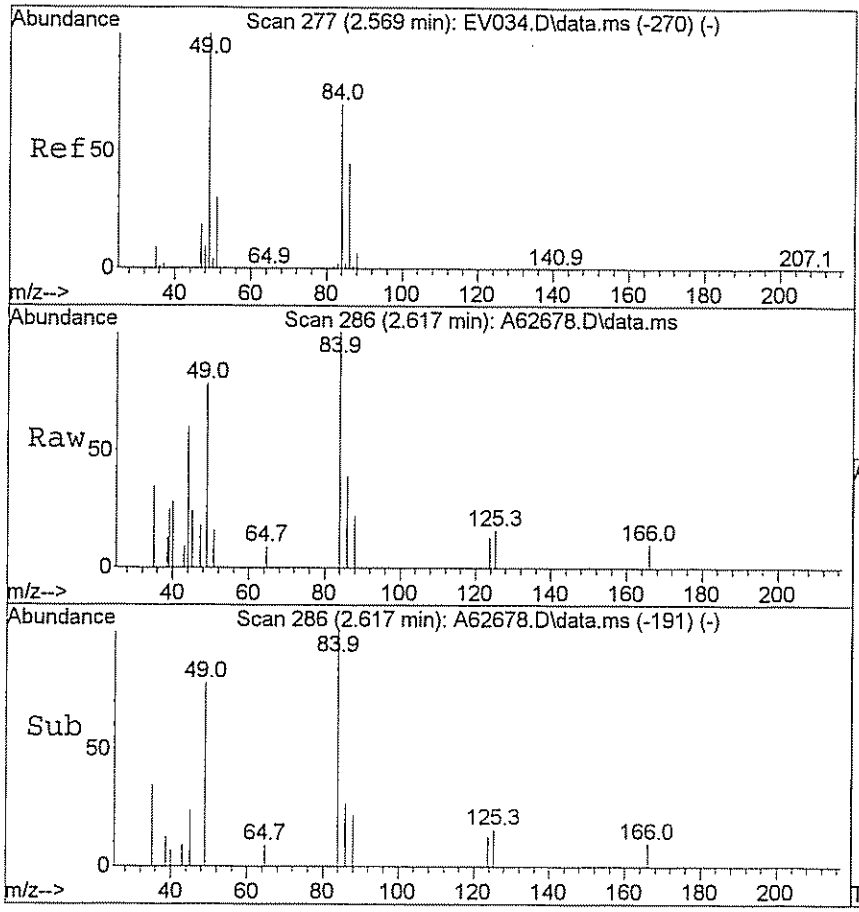
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\GCMSDATA\A\032709AC2\
Data File : A62678.D
Acq On : 28 Mar 2009 1:42 am
Operator : SM
Sample : 903125-007
Misc : OUI-52GW41-0309,CH2M HILL,WATER
ALS Vial : 75 Sample Multiplier: 1

Quant Time: Apr 01 15:13:48 2009
Quant Method : H:\GCMSDATA\A\METHODS\A8260C2_031009.M
Quant Title : 8260
QLast Update : Thu Mar 12 13:28:08 2009
Response via : Initial Calibration

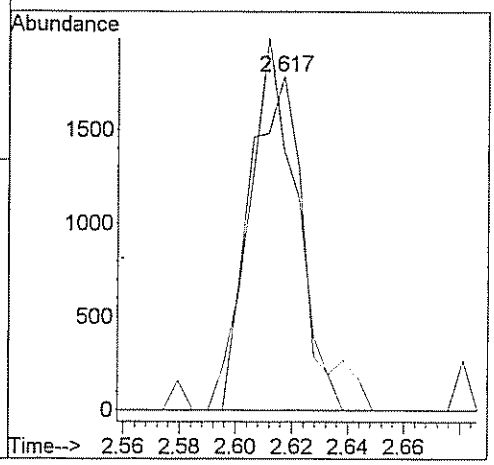


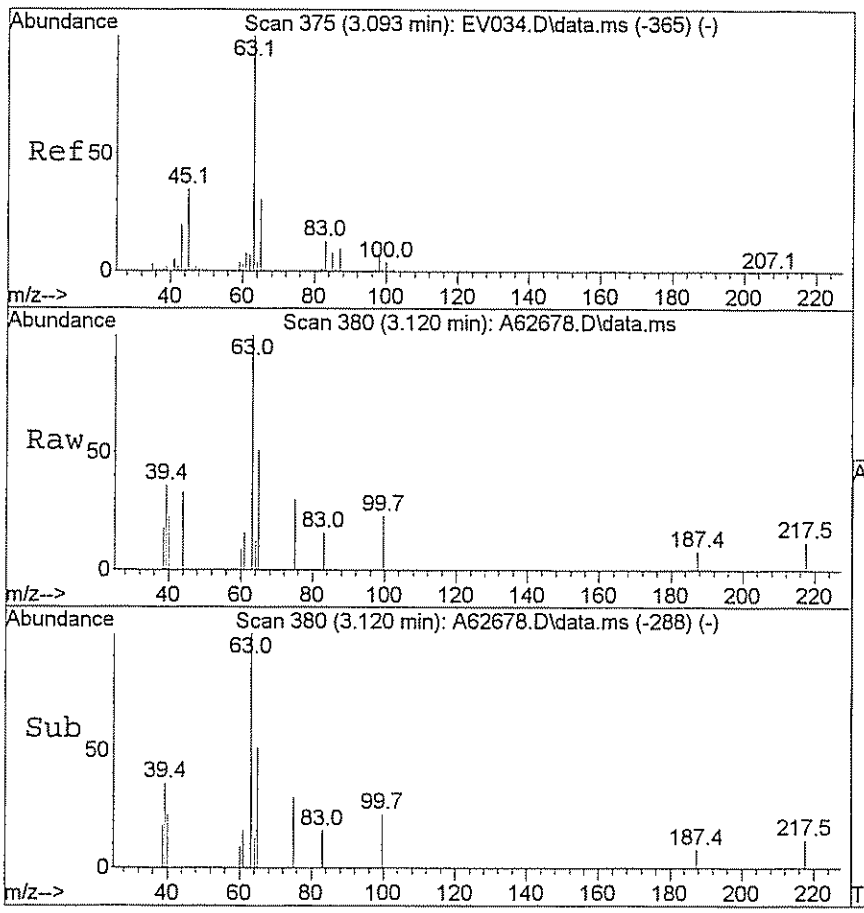


#15
Methylene chloride
Concen: 3.70 ug/L
RT: 2.617 min Scan# 286
Delta R.T. 0.011 min
Lab File: A62678.D
Acq: 28 Mar 2009 1:42 am

Tgt Ion: 84 Resp: 2446

Ion	Ratio	Lower	Upper
84	100		
49	94.8	125.9	188.9#

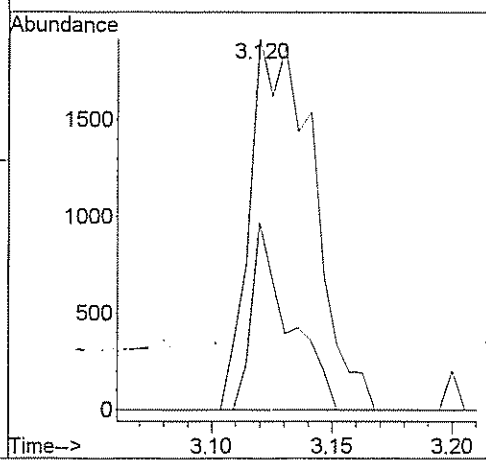


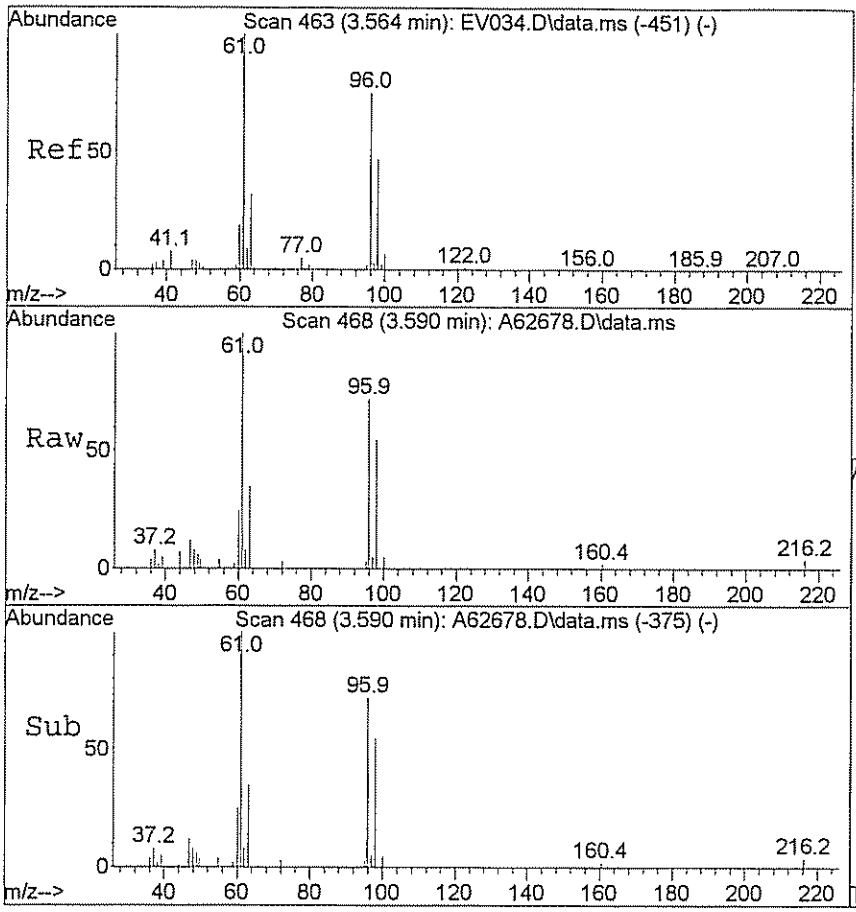


#18
1,1-Dichloroethane
Concen: 1.09 ug/L
RT: 3.120 min Scan# 380
Delta R.T. -0.005 min
Lab File: A62678.D
Acq: 28 Mar 2009 1:42 am

Tgt Ion: 63 Resp: 3501

Ion	Ratio	Lower	Upper
63	100		
65	29.8	25.0	37.4

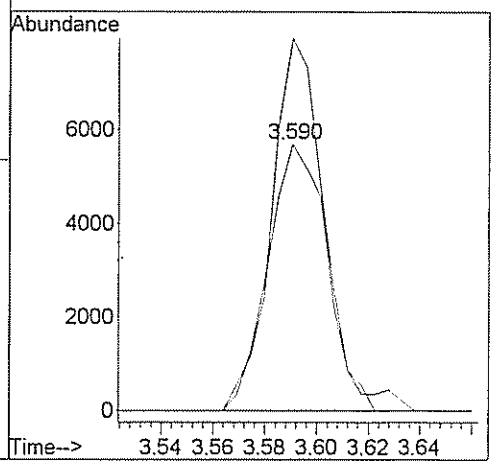


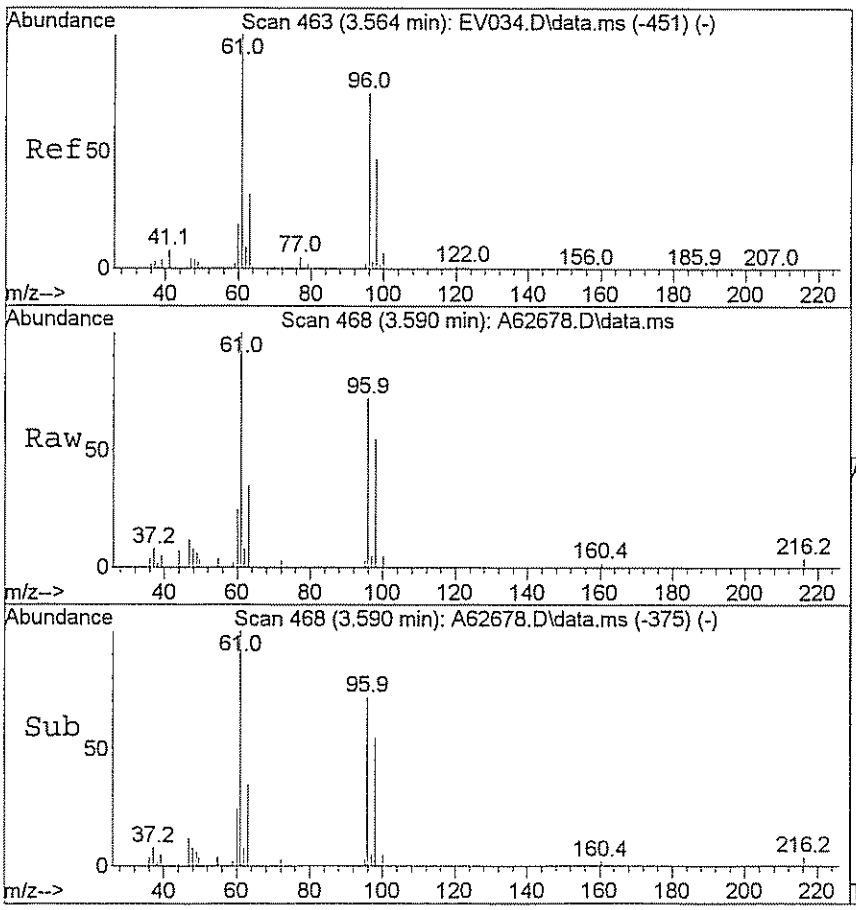


#28
Cis-1,2-dichloroethene
Concen: 4.19 ug/L
RT: 3.590 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62678.D
Acq: 28 Mar 2009 1:42 am

Tgt Ion: 96 Resp: 8974

Ion	Ratio	Lower	Upper
96	100		
61	125.6	115.0	172.6

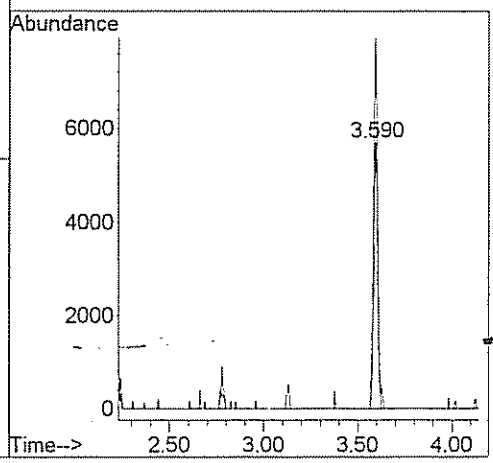


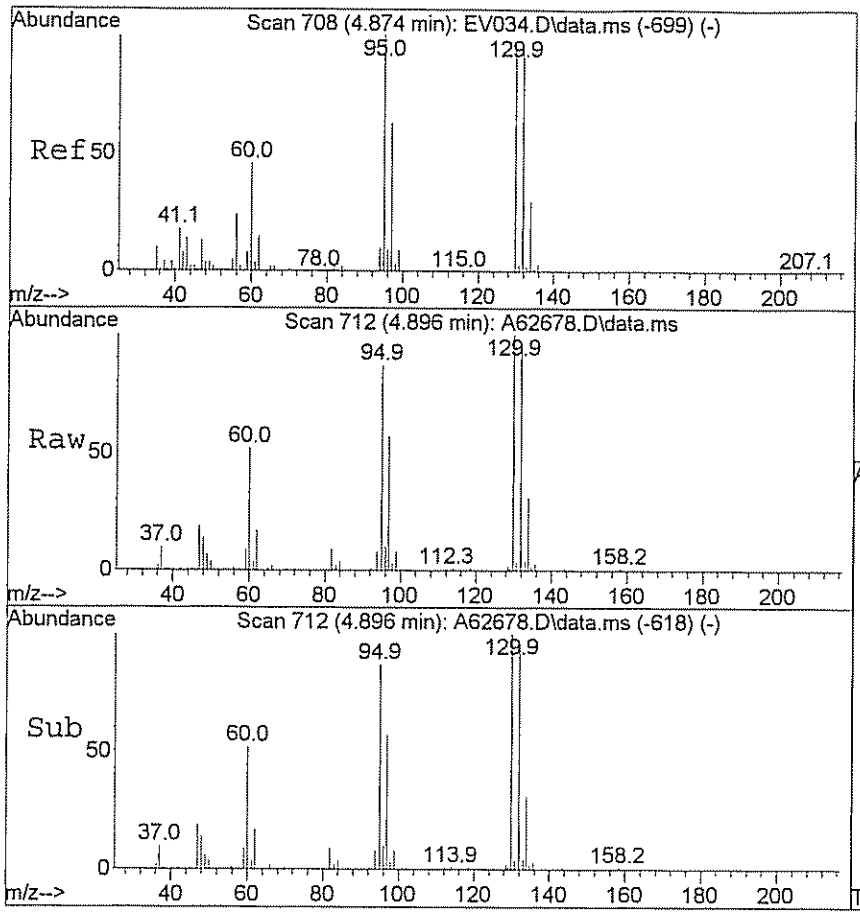


#29
1,2-dichloroethene(total)
Concen: 4.91 ug/L m
RT: 3.590 min Scan# 468
Delta R.T. -0.001 min
Lab File: A62678.D
Acq: 28 Mar 2009 1:42 am

Tgt Ion: 96 Resp: 9591

Ion	Ratio	Lower	Upper
96	100		
61	117.5	115.0	172.6

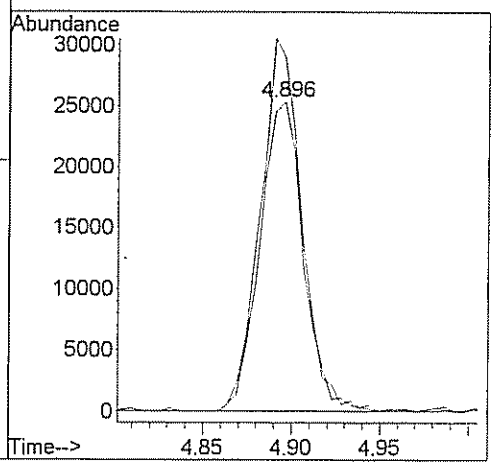




#46
Trichloroethene
Concen: 18.01 ug/L
RT: 4.896 min Scan# 712
Delta R.T. 0.005 min
Lab File: A62678.D
Acq: 28 Mar 2009 1:42 am

Tgt Ion: 95 Resp: 42878

Ion	Ratio	Lower	Upper
95	100		
130	115.6	79.7	119.5



GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW36-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-008-022-1/3
Sample Volume :	5	Lab File ID :	A62680.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
108-67-8	1,3,5-trimethylbenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
78-93-3	2-Butanone	5.0	U
95-49-8	2-Chlorotoluene	1.0	U
591-78-6	2-Hexanone	5.0	U
106-43-4	4-Chlorotoluene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW36-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-008-022-1/3
Sample Volume :	5	Lab File ID :	A62680.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
106-93-4	Ethylene DiBromide	1.0	U
76-13-1	Freon 113	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene Chloride	3.2	
91-20-3	Naphthalene	1.0	U
135-98-8	Sec-Butylbenzene	1.0	U
100-42-5	Styrene	1.0	U
127-18-4	Tetrachloroethylene	1.0	U
108-88-3	Toluene	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U

GPL Laboratories

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FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
OU1-52GW36-0309

Lab Name :	GPL Laboratories	Client. :	CH2M Hill Inc
Lab Code :	GPL	SAS NO. :	903125
Case No. :		SDG NO :	903125
Matrix : (Soil / Water)	WATER	Lab Sample ID :	903125-008-022-1/3
Sample Volume :	5	Lab File ID :	A62680.D
Level :	Low	Date Received	03/19/2009
% Moisture: not dec		Date Analyzed	03/28/2009
GC Column :	RTX_624 ID. 0.18	Dilution Factor :	1
Soil Extract Volume :	(µ L)	Soil Aliquot Volume :	(µ L)

Concentration Units (mg/L or mg/kg dry weight) : ug/L

CAS NO	COMPOUND		Q
108-05-4	Vinyl Acetate	1.0	U
75-01-4	Vinyl Chloride	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
136777-61-2	m,p-Xylene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-butyl methyl ether	1.0	U
156-60-5	trans-1,2-dichloroethene	1.0	U
10061-02-6	trans-1,3-dichloropropene	1.0	U