N90845.AR.001880
NWIRP BETHPAGE
5090.3a

VALIDATED DATA PACKAGE, TH0715, NWIRP BETHPAGE NY
1/5/2015
KATAHDIN ANALYTICAL SERVICES

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, Maine

CASE NO. WE15 SDG NO. TH071S SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO.
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)	0000001	0000003	✓	
2. **SDG Case Narrative**	0000006	0000007	✓	
3. **SDG Cover Sheet/Traffic Report**	0000004	0000005	✓	
4. **Volatiles Data**				
a. QC Summary				
System Monitoring Compound Summary (Form II	0000015	0000017	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	NA	NA	✓	
Method Blank Summary (Form IV VOA)	0000018	0000015	✓	
GC/MS Instrument Performance Check (Form V VOA)	0000019	0000020	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	0000021	0000022	✓	
b. Sample Data	0000023	0000068		
TCL Results - (Form I VOA-1, VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	0000069	0000112		
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
BFB	0000113	0000118 MMB 1-3,5	✓	
Blank Data	0000119	0000030	✓	
Martix Spike/Matrix Spike Duplicate Data MMB 1-3,5	0000025	0000024	✓	
		0000030	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. TH075 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
e. Raw GPC Data	NA	NA	✓	
f. Raw Florisil Data	NA	NA	✓	
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages	0000131	0000133	✓	
Internal sample and sample extract transfer chain-of-custody records	0000002	0000004	✓	
Screening records	NA	NA	✓	
All instrument output, including strip charts from screening activities (describe or list)				
	NA	NA	✓	
	NA	NA	✓	
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments _____)	NA	NA	✓	
Chain-of-Custody Records	0000009	0000009	✓	
Sample Tags			✓	
Sample Log-in Sheet (Lab & DC1)	NA	NA	✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
Sample Receipt Condition Report	0000008	0000008	✓	
Login Chain of Custody	0000010	0000011	✓	
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
	NA	NA	✓	
	NA	NA	✓	
10. **Other Records** (describe or list)				
Telephone Communication Log	NA	NA	✓	
	NA	NA	✓	
	NA	NA	✓	

11. **Comments:** _____

FORM DC-2-4 OLM04.2

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. TH071S SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	[signature] (Signature)	Melanie Brown/OM (Printed Name/Title)	1-3-15 (Date)
Verified by: (CLP Lab)	(Signature)	(Printed Name/Title)	(Date)
Audited by: (EPA)	(Signature)	(Printed Name/Title)	(Date)

ENSAFE
NAVY CLEAN WE15-03-06
NWIRP BETHPAGE, NY
TH0715

KATAHDIN ANALYTICAL SERVICES, LLC
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

0000004

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
ENSAFE
NAVY CLEAN WE15-03-06 NWIRP BETHPAGE, NY
TH0715

Sample Receipt

The following samples were received on December 19, 2014 and were logged in under Katahdin Analytical Services work order number TH0715 for a hardcopy due date of January 07, 2015

KATAHDIN Sample No.	ENSAFE Sample Identification
TH0715-1	VPB153-GW-121514-798-800
TH0715-2	VPB153-GW-121514-818-820
TH0715-3	VPB153-GW-121514-838-840
TH0715-4	VPB153-GW-121614-878-880
TH0715-5	VPB153-GW-121614-898-900
TH0715-6	VPB153-GW-121614-918-920
TH0715-7	VPB153-TRIP BLANK-121814

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Some of the client IDs on the Chain of Custody exceeds the 19-character limit of the Katahdin Analytical Information Management System. Therefore, the first characters "VPB" and middle characters "GW-" in the client ID for samples TH0715-1 through -6 were omitted on all forms. The middle characters "TRIP BLANK" for sample TH0715-7 were truncated to "TB" on all forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Jennifer Obrin.** This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order TH0715 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA and/or for the specific methods listed below or on the Report of Analysis.

8260B Analysis

Samples TH0715-2, 3, 4 and 6 were manually integrated for the target analyte 2-butanone. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

The independent check standard (file C0225A), associated with the initial calibration analyzed on the D instrument on 11/26/14, had a high concentration for the target analyte carbon disulfide, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL.

Due to vials containing mostly soil and not very much liquid, samples TH0715-1 through 6 were decanted, compounded into one vial and analyzed. The three vials of sample TH0715-1 were decanted, compounded into one vial and due to limited volume analyzed at a dilution of 1:4. Consequently, the sample's detections limits were elevated accordingly. The two vials of samples TH0715-2, 5 and 6 were decanted, compounded into one vial for each sample and analyzed. The three vials of samples TH0715-3 and 4 were decanted, compounded into one vial for each sample and analyzed.

There were no other protocol deviations or observations noted by the organics laboratory staff.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
12.29.14
Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client: AECOM	KAS PM: Jo	Sampled By: Client
Project:	KIMS Entry By: GN	Delivered By: FedEx
KAS Work Order#: TH0715	KIMS Review By:	Received By: GN
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 12-19-14/0830

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 1.8
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?	✓				
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved?					
Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Katahdin ANALYTICAL SERVICES
ology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: Resolution Consultants
Contact: Eleanor Vivendou
Phone #: (845) 425-4820
Fax #: ( )
Address: 100 Red Schoolhouse Rd.
City: Chestnut Ridge
State: NY
Zip Code: 10977
Purchase Order #:
Proj. Name / No.: NWFRP Bethpage / 60266526
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Michael Zobel / Michael Zobel
Copies To:

LAB USE ONLY
WORK ORDER #: TH0715
KATAHDIN PROJECT NUMBER:
REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	VPB153-GW-121514-798-800	12-15-14 / 1115	GW	3	X										
	VPB153-GW-121514-818-820	12-15-14 / 1330	GW	2	X										
	VPB153-GW-121514-838-840	12-15-14 / 1550	GW	3	X										
	VPB153-GW-121614-878-880	12-16-14 / 1150	GW	3	X										
	VPB153-GW-121614-898-900	12-16-14 / 1435	GW	3	X										
	VPB153-GW-121614-918-920	12-16-14 / 1710	GW	2	X										
	~~VPB153-GW-121714~~	/													
	VPB153-TRIP BLANK-121814	9-15-14 / 1130	W	3	X										
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													

COMMENTS
818-820 + 918-920 only 2 VOAs, limited sample quantity. 798-800, 818-820, 838-840, + 878-880 very silty

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Michael Zobel	12-18-14 / 1130	12-19-14 0930			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Dec. 22, 2014
06:28 AM

Login Number: TH0715

Account: ENSAFE001
ENSAFE

NoWeb

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

Primary Report Address:
Dana Miller
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134
dmiller@Ensafe.com

Primary Invoice Address:
Accounts Payable
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: AECOM-BETHPAGE

Login Information:

ANALYSIS INSTRUCTIONS	:	Form 1's due in 48 hrs for VOCs. Follow DoD QSM Version 4.2 using DoD limits. "U" LOD. "J" flag between DL and LOQ.
CHECK NO.	:	
CLIENT PO#	:	16518
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	
COOLER TEMPERATURE	:	1.8
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	GN
PM	:	JO
PROJECT NAME	:	Navy Clean WE15-03-06 NWIRP Bethpage, NY
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send HC and CD to Dana. Email invoice to purchasing@ensafe.com
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
TH0715-1	153-121514-798-800	15-DEC-14 11:15	19-DEC-14		**30-DEC-14**	07-JAN-15	
Matrix Aqueous	S ***Product*** SW8260-S	***Hold Date (shortest)*** 29-DEC-14	***Bottle Type*** 40mL Vial+HCl		***Bottle Count***		***Comments*** **VPB153-GW-121514-798-800,very silty**
TH0715-2	153-121514-818-820	15-DEC-14 13:30	19-DEC-14		**30-DEC-14**	07-JAN-15	
Matrix Aqueous	S ***Product*** SW8260-S	***Hold Date (shortest)*** 29-DEC-14	***Bottle Type*** 40mL Vial+HCl		***Bottle Count***		***Comments*** **VPB153-GW-121514-818-820, very silty**
TH0715-3	153-121514-838-840	15-DEC-14 15:50	19-DEC-14		**30-DEC-14**	07-JAN-15	
Matrix Aqueous	S ***Product*** SW8260-S	***Hold Date (shortest)*** 29-DEC-14	***Bottle Type*** 40mL Vial+HCl		***Bottle Count***		***Comments*** **VPB153-GW-121514-838-840, very silty**
TH0715-4	153-121614-878-880	16-DEC-14 11:50	19-DEC-14		**30-DEC-14**	07-JAN-15	
Matrix Aqueous	S ***Product*** SW8260-S	***Hold Date (shortest)*** 30-DEC-14	***Bottle Type*** 40mL Vial+HCl		***Bottle Count***		***Comments*** **VPB153-GW-121614-878-880, very silty**
TH0715-5	153-121614-898-900	16-DEC-14 14:35	19-DEC-14		**30-DEC-14**	07-JAN-15	
Matrix Aqueous	S ***Product*** SW8260-S	***Hold Date (shortest)*** 30-DEC-14	***Bottle Type*** 40mL Vial+HCl		***Bottle Count***		***Comments*** **VPB153-GW-121614-898-900**
TH0715-6	153-121614-918-920	16-DEC-14 17:10	19-DEC-14		**30-DEC-14**	07-JAN-15	
Matrix Aqueous	S ***Product*** SW8260-S	***Hold Date (shortest)*** 30-DEC-14	***Bottle Type*** 40mL Vial+HCl		***Bottle Count***		***Comments*** **VPB153-GW-121614-918-920**
TH0715-7	VPB153-TB-121814	18-DEC-14 00:00	19-DEC-14		**30-DEC-14**	07-JAN-15	
Matrix Aqueous	S ***Product*** SW8260-S	***Hold Date (shortest)*** 01-JAN-15	***Bottle Type*** 40mL Vial+HCl		***Bottle Count***		***Comments*** **VPB153-Trip Blank-121814**

12.22.14

000010

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Dec. 22, 2014
06:28 AM

Login Number: TH0715

Quote/Incoming: AECOM-BETHPAGE

Account: ENSAFE001
ENSAFE

NoWeb

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed

Total Samples: *7* ***Total Analyses:*** *7*

QP
12.22.14

0000011

Katahdin Analytical Services, Inc.

Container Transfer History for TH0715

Samplenum TH0715-1

Container Id TH0715-1A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Container Id TH0715-1B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Container Id TH0715-1C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Samplenum TH0715-2

Container Id TH0715-2A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Container Id TH0715-2B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 12/19/14 14:27 .

Samplenum TH0715-3

Container Id TH0715-3A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Container Id TH0715-3B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Container Id TH0715-3C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Samplenum TH0715-4

Container Id TH0715-4A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Katahdin Analytical Services, Inc.

Container Transfer History for TH0715

Samplenum TH0715-4

Container Id TH0715-4A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Container Id TH0715-4B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Container Id TH0715-4C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Samplenum TH0715-5

Container Id TH0715-5A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Container Id TH0715-5B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 12/19/14 14:27 .

Container Id TH0715-5C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	

Samplenum TH0715-6

Container Id TH0715-6A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Container Id TH0715-6B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Samplenum TH0715-7

Container Id TH0715-7A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments

Katahdin Analytical Services, Inc.

Container Transfer History for TH0715

Samplenum TH0715-7

Container Id TH0715-7A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 11:37	LOGIN	VOA_FRIDGE1	RCROCKER	N	
19-DEC-14 11:37	VOA_FRIDGE1	GC/MS	RCROCKER	N	
20-DEC-14 15:17	GC/MS	WALK-IN	DPAUL	N	

Container Id TH0715-7B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	
22-DEC-14 11:29	VOA_FRIDGE1	GC/MS	RCROCKER	N	
23-DEC-14 07:26	GC/MS	WALK-IN	RCROCKER	N	

Container Id TH0715-7C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
19-DEC-14 14:27	LOGIN	VOA_FRIDGE1	APIMENTEL	N	

VOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** TH0715

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
153-121514-798-800	TH0715-1DL		103.		102.		96.2		102.	
153-121514-818-820	TH0715-2		103.		103.		94.8		104.	
153-121514-838-840	TH0715-3		107.		104.		94.2		106.	
153-121614-878-880	TH0715-4		102.		102.		99.2		105.	
153-121614-898-900	TH0715-5		106.		103.		99.2		106.	
153-121614-918-920	TH0715-6		104.		108.		101.		104.	
VPB153-TB-121814	TH0715-7		104.		102.		96.1		104.	
Laboratory Control S	WG156070-1		105.		94.7		83.0		102.	
Method Blank Sample	WG156070-2		103.		96.6		94.4		102.	

		QC Limits
DCA	1,2-DICHLOROETHANE-D4	70-120
BFB	P-BROMOFLUOROBENZENE	75-120
DBF	DIBROMOFLUOROMETHANE	85-115
TOL	TOLUENE-D8	85-120

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
SDG : TH0715
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG156070-2
Lab File ID : C0674.D
Date Analyzed : 22-DEC-14
Instrument ID : GCMS-C
Time Analyzed : 12:54
Heated Purge : No

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG156070-1	C0670.D	12/22/14	10:35
VPB153-TB-121814	TH0715-7	C0675.D	12/22/14	13:26
153-121514-798-800	TH0715-1DL	C0678.D	12/22/14	15:01
153-121514-818-820	TH0715-2	C0679.D	12/22/14	15:33
153-121514-838-840	TH0715-3	C0680.D	12/22/14	16:05
153-121614-878-880	TH0715-4	C0681.D	12/22/14	16:37
153-121614-898-900	TH0715-5	C0682.D	12/22/14	17:08
153-121614-918-920	TH0715-6	C0683.D	12/22/14	17:40

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : CB958.D
Instrument ID : GCMS-C

SDG : TH0715
Date Analyzed : 26-NOV-14
Time Analyzed : 06:54
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.8		
75	30.0 - 60.0% of mass 95	51.0		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	8.8		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	82.4		
175	5.0 - 9.0% of mass 174	5.1	6.23	1
176	95.0 - 101.0% of mass 174	79.8	96.81	1
177	5.0 - 9.0% of mass 176	5.7	7.17	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG154861-3	C0212.D	11/26/14	08:07
Initial Calibration	WG154861-2	C0213.D	11/26/14	08:39
Initial Calibration	WG154861-6	C0215.D	11/26/14	09:42
Initial Calibration	WG154861-1	C0220.D	11/26/14	13:18
Initial Calibration	WG154861-5	C0222.D	11/26/14	14:22
Initial Calibration	WG154861-4	C0223.D	11/26/14	14:53
Independent Source	WG154861-7	C0225A.D	11/26/14	15:57

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Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : CB977.D
Instrument ID : GCMS-C

SDG : TH0715
Date Analyzed : 22-DEC-14
Time Analyzed : 08:22
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	19.8		
75	30.0 - 60.0% of mass 95	52.9		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.3		
173	Less than 2.0% of mass 174	0.3	0.38	1
174	Greater than 50.0% of mass 95	79.6		
175	5.0 - 9.0% of mass 174	5.8	7.25	1
176	95.0 - 101.0% of mass 174	77.4	97.22	1
177	5.0 - 9.0% of mass 176	5.9	7.57	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG156070-4	C0669.D	12/22/14	09:51
Laboratory Control S	WG156070-1	C0670.D	12/22/14	10:35
Method Blank Sample	WG156070-2	C0674.D	12/22/14	12:54
VPB153-TB-121814	TH0715-7	C0675.D	12/22/14	13:26
153-121514-798-800	TH0715-1DL	C0678.D	12/22/14	15:01
153-121514-818-820	TH0715-2	C0679.D	12/22/14	15:33
153-121514-838-840	TH0715-3	C0680.D	12/22/14	16:05
153-121614-878-880	TH0715-4	C0681.D	12/22/14	16:37
153-121614-898-900	TH0715-5	C0682.D	12/22/14	17:08
153-121614-918-920	TH0715-6	C0683.D	12/22/14	17:40

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Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG154861-4
Lab File ID : C0223.D

SDG: TH0715
Analytical Date: 11/26/14 14:53
Instrument ID: GCMS-C

		PENTAFLUOROBENZENE			1,4-DIFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	Area	#	RT	Area	#	RT
	Std .	520134		8.04	828322		8.71	837594		12.19
	Upper Limit	1040268		8.54	1656644		9.21	1675188		12.69
	Lower Limit	260067		7.54	414161		8.21	418797		11.69
Client Sample ID	Lab Sample ID									
Continuing Calibrati	WG156070-4	529766		8.04	858492		8.70	891845		12.19
Laboratory Control S	WG156070-1	527450		8.04	845719		8.71	867767		12.19
Method Blank Sample	WG156070-2	477544		8.04	785976		8.71	805029		12.19
VPB153-TB-121814	TH0715-7	459833		8.04	764008		8.71	796693		12.19
153-121514-798-800	TH0715-1DL	438960		8.04	729096		8.70	753889		12.19
153-121514-818-820	TH0715-2	437666		8.05	723966		8.70	746470		12.19
153-121514-838-840	TH0715-3	430067		8.04	705310		8.70	746167		12.19
153-121614-878-880	TH0715-4	427054		8.04	714118		8.70	730955		12.19
153-121614-898-900	TH0715-5	424319		8.04	707234		8.71	748528		12.19
153-121614-918-920	TH0715-6	416136		8.04	707571		8.71	735850		12.19

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG154861-4
Lab File ID : C0223.D

SDG: TH0715
Analytical Date: 11/26/14 14:53
Instrument ID: GCMS-C

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	470887		15.52	
	Upper Limit	941774		16.02	
	Lower Limit	235443.5		15.02	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG156070-4	508307		15.52	
Laboratory Control S	WG156070-1	504768		15.52	
Method Blank Sample	WG156070-2	452928		15.52	
VPB153-TB-121814	TH0715-7	444345		15.52	
153-121514-798-800	TH0715-1DL	419690		15.52	
153-121514-818-820	TH0715-2	415686		15.52	
153-121514-838-840	TH0715-3	415822		15.52	
153-121614-878-880	TH0715-4	414911		15.52	
153-121614-898-900	TH0715-5	421926		15.52	
153-121614-918-920	TH0715-6	413969		15.52	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

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The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as “U” MDL have a 50% rate for false negatives compared to those results reported as “U” PQL/LOQ or “U” LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

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Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-1DL
Client ID: 153-121514-798-800
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0678.D

Sample Date: 15-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	4.0	ug/L	4	2	8.0	0.96	4.0
Chloromethane	U	4.0	ug/L	4	2	8.0	1.4	4.0
Vinyl Chloride	U	4.0	ug/L	4	2	8.0	1.0	4.0
Bromomethane	U	4.0	ug/L	4	2	8.0	2.0	4.0
Chloroethane	U	4.0	ug/L	4	2	8.0	2.2	4.0
Trichlorofluoromethane	U	4.0	ug/L	4	2	8.0	0.96	4.0
1,1-Dichloroethene	U	2.0	ug/L	4	1	4.0	1.4	2.0
Carbon Disulfide	U	2.0	ug/L	4	1	4.0	1.0	2.0
Freon-113	U	2.0	ug/L	4	1	4.0	1.2	2.0
Methylene Chloride	U	10	ug/L	4	5	20.	4.5	10.
Acetone	J	11	ug/L	4	5	20.	8.8	10.
trans-1,2-Dichloroethene	U	2.0	ug/L	4	1	4.0	1.0	2.0
Methyl tert-butyl Ether	U	2.0	ug/L	4	1	4.0	1.4	2.0
1,1-Dichloroethane	U	2.0	ug/L	4	1	4.0	0.84	2.0
cis-1,2-Dichloroethene	U	2.0	ug/L	4	1	4.0	0.84	2.0
Chloroform	U	2.0	ug/L	4	1	4.0	1.3	2.0
1,1,1-Trichloroethane	U	2.0	ug/L	4	1	4.0	0.80	2.0
2-Butanone	U	10	ug/L	4	5	20.	5.2	10.
Cyclohexane	U	2.0	ug/L	4	1	4.0	1.2	2.0
Carbon Tetrachloride	U	2.0	ug/L	4	1	4.0	0.88	2.0
Benzene	U	2.0	ug/L	4	1	4.0	1.0	2.0
1,2-Dichloroethane	U	2.0	ug/L	4	1	4.0	0.80	2.0
Trichloroethene	U	2.0	ug/L	4	1	4.0	1.1	2.0
1,2-Dichloropropane	U	2.0	ug/L	4	1	4.0	1.0	2.0
Bromodichloromethane	U	2.0	ug/L	4	1	4.0	1.3	2.0
cis-1,3-Dichloropropene	U	2.0	ug/L	4	1	4.0	0.76	2.0
Toluene	U	2.0	ug/L	4	1	4.0	1.1	2.0
4-Methyl-2-Pentanone	U	10	ug/L	4	5	20.	5.3	10.
trans-1,3-Dichloropropene	U	2.0	ug/L	4	1	4.0	0.80	2.0
1,1,2-Trichloroethane	U	2.0	ug/L	4	1	4.0	1.3	2.0
Tetrachloroethene	U	2.0	ug/L	4	1	4.0	1.6	2.0
Dibromochloromethane	U	2.0	ug/L	4	1	4.0	1.2	2.0
2-Hexanone	U	10	ug/L	4	5	20.	6.8	10.
Chlorobenzene	U	2.0	ug/L	4	1	4.0	0.88	2.0
Ethylbenzene	U	2.0	ug/L	4	1	4.0	0.84	2.0

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-1DL
Client ID: 153-121514-798-800
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0678.D

Sample Date: 15-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	6.0	ug/L	4	3	12.	1.0	6.0
Styrene	U	2.0	ug/L	4	1	4.0	0.92	2.0
Bromoform	U	2.0	ug/L	4	1	4.0	0.92	2.0
Isopropylbenzene	U	2.0	ug/L	4	1	4.0	0.92	2.0
1,1,2,2-Tetrachloroethane	U	2.0	ug/L	4	1	4.0	1.5	2.0
1,3-Dichlorobenzene	U	2.0	ug/L	4	1	4.0	1.0	2.0
1,4-Dichlorobenzene	U	2.0	ug/L	4	1	4.0	0.96	2.0
1,2-Dichlorobenzene	U	2.0	ug/L	4	1	4.0	0.60	2.0
1,2,4-Trichlorobenzene	U	2.0	ug/L	4	1	4.0	1.5	2.0
Methyl Acetate	U	3.0	ug/L	4	1	4.0	2.1	3.0
Methylcyclohexane	U	2.0	ug/L	4	1	4.0	1.2	2.0
o-Xylene	U	2.0	ug/L	4	1	4.0	1.0	2.0
M+P-Xylenes	U	4.0	ug/L	4	2	8.0	2.4	4.0
1,2-Dichloroethylene (Total)	U	4.0	ug/L	4	2	8.0	0.84	4.0
1,2-Dibromoethane	U	2.0	ug/L	4	1	4.0	0.88	2.0
1,2-Dibromo-3-Chloropropane	U	3.0	ug/L	4	1	4.0	2.0	3.0
P-Bromofluorobenzene		103.	%					
Toluene-d8		102.	%					
1,2-Dichloroethane-d4		96.2	%					
Dibromofluoromethane		102.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0678.D
Report Date: 23-Dec-2014 14:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122214.b\C0678.D
Lab Smp Id: TH0715-1DL Client Smp ID: 153-121514-798-800
Inj Date : 22-DEC-2014 15:01 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : TH0715-1DL
Misc Info : WG156070,WG154861-4
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-c.i\C122214.b\C826A26.m
Meth Date : 23-Dec-2014 14:19 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 11
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

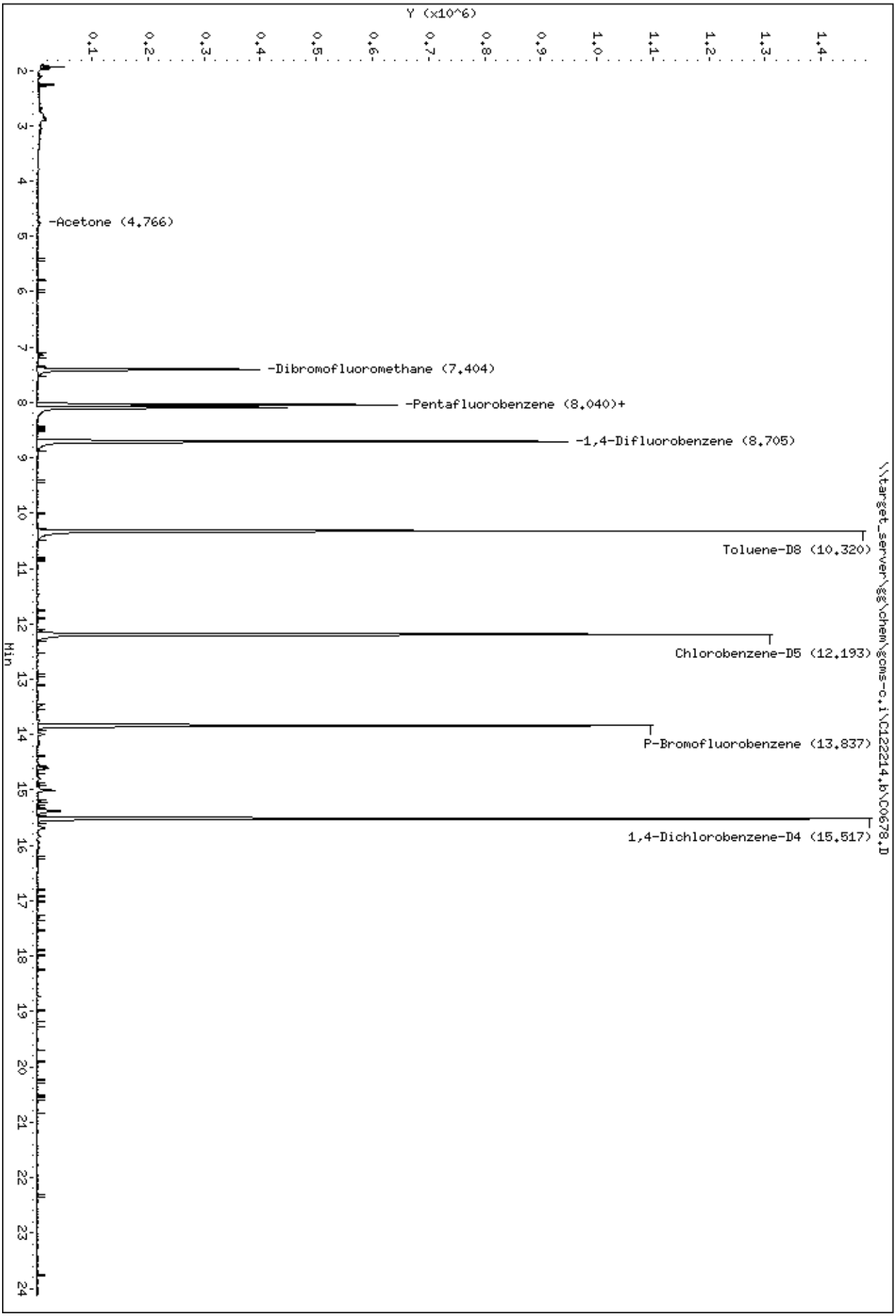
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.766	4.753	(0.593)	6062	2.80402	11.2(a)	
$ 37 Dibromofluoromethane	113	7.403	7.405	(0.921)	244353	51.0114	51.0	
* 42 Pentafluorobenzene	168	8.040	8.041	(1.000)	438960	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	292061	48.0947	48.1	
* 49 1,4-Difluorobenzene	114	8.704	8.706	(1.000)	729096	50.0000		
$ 55 Toluene-D8	98	10.320	10.322	(1.186)	860560	51.2513	51.2	
* 66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	753889	50.0000		
$ 76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	373560	51.5598	51.6	
* 91 1,4-Dichlorobenzene-D4	152	15.516	15.518	(1.000)	419690	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0678.D
Date : 22-DEC-2014 15:01
Client ID: 153-121514-798-800
Sample Info: TH0715-1DL
Instrument: gcms-c.i
\\target_server\gg\chem\gcms-c.i\C122214.b\C0678.D
Y (x10^6)
Min
-Acetone (4.766)
-Dibromofluoromethane (7.404)
-Pentafluorobenzene (8.040)+
-1,4-Difluorobenzene (8.705)
Toluene-D8 (10.320)
Chlorobenzene-D5 (12.193)
P-Bromofluorobenzene (13.837)
1,4-Dichlorobenzene-D4 (15.517)

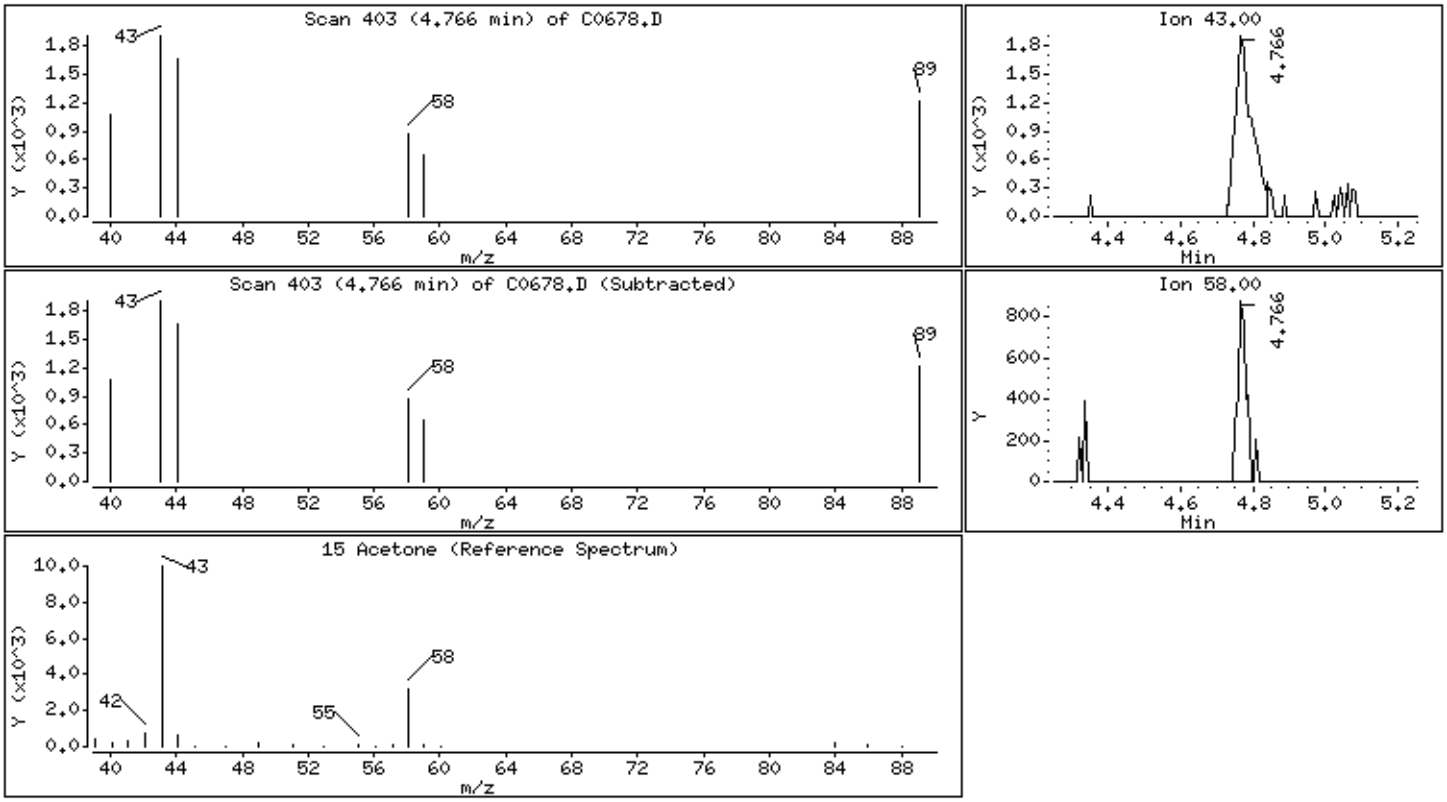
Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0678.D

Date : 22-DEC-2014 15:01

Client ID: 153-121514-798-800 Instrument: gcms-c.i

Sample Info: TH0715-1DL

15 Acetone Concentration: 11.2 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-2
Client ID: 153-121514-818-820
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0679.D

Sample Date: 15-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		11	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	J	1.7	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-2
Client ID: 153-121514-818-820
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0679.D

Sample Date: 15-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		103.	%					
Toluene-d8		104.	%					
1,2-Dichloroethane-d4		94.8	%					
Dibromofluoromethane		103.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0679.D
Report Date: 23-Dec-2014 14:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122214.b\C0679.D
Lab Smp Id: TH0715-2 Client Smp ID: 153-121514-818-820
Inj Date : 22-DEC-2014 15:33 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : TH0715-2
Misc Info : WG156070,WG154861-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C122214.b\C826A26.m
Meth Date : 23-Dec-2014 14:19 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

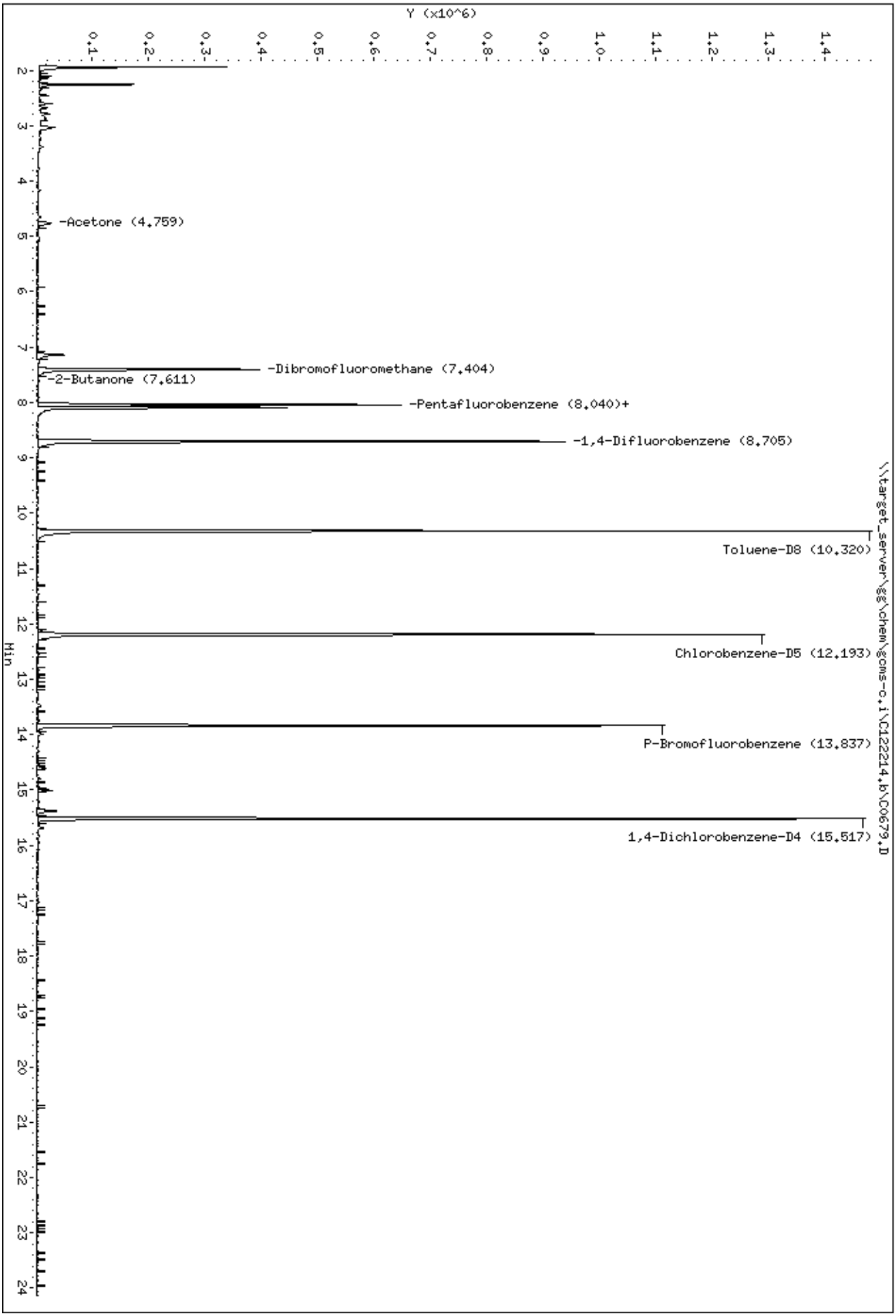
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.759	4.753	(0.591)	24059	11.1616	11.2	
$ 37 Dibromofluoromethane	113	7.403	7.405	(0.920)	246280	51.5657	51.6	
40 2-Butanone	43	7.611	7.584	(0.946)	5216	1.74387	1.7(aM)	M9
* 42 Pentafluorobenzene	168	8.047	8.041	(1.000)	437666	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.005)	286891	47.3830	47.4	
* 49 1,4-Difluorobenzene	114	8.704	8.706	(1.000)	723966	50.0000		
$ 55 Toluene-D8	98	10.320	10.322	(1.186)	865803	51.9289	51.9	
* 66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	746470	50.0000		
$ 76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	369366	51.3422	51.3	
* 91 1,4-Dichlorobenzene-D4	152	15.516	15.518	(1.000)	415686	50.0000		

REC
2:37 pm, Dec 23, 2014

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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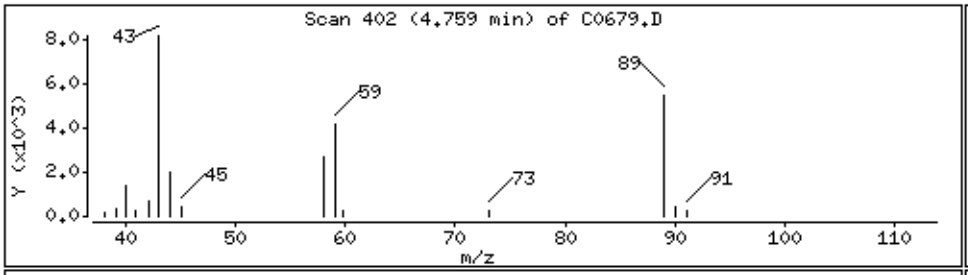
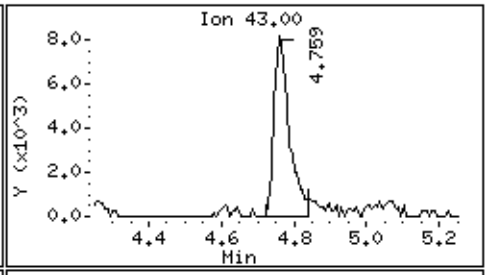
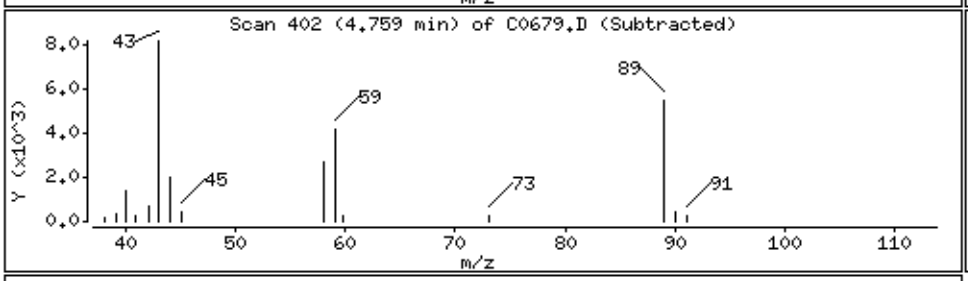
Date : 22-DEC-2014 15:33
Client ID: 153-121514-818-820
Sample Info: TH0715-2
Instrument: gcms-c.i
Y (x10^6)
Min
-Acetone (4.759)
-Dibromofluoromethane (7.404)
-2-Butanone (7.611)
-Pentafluorobenzene (8.040)+
-1,4-Difluorobenzene (8.705)
Toluene-D8 (10.320)
Chlorobenzene-D5 (12.193)
P-Bromofluorobenzene (13.837)
1,4-Dichlorobenzene-D4 (15.517)
\\target_server\gg\chem\gcms-c.i\C122214.b\C0679.D

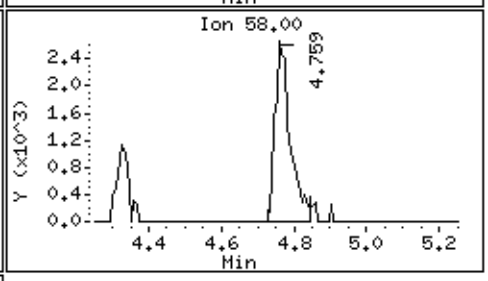
Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0679.D
Date : 22-DEC-2014 15:33
Client ID: 153-121514-818-820 Instrument: gcms-c.i
Sample Info: TH0715-2

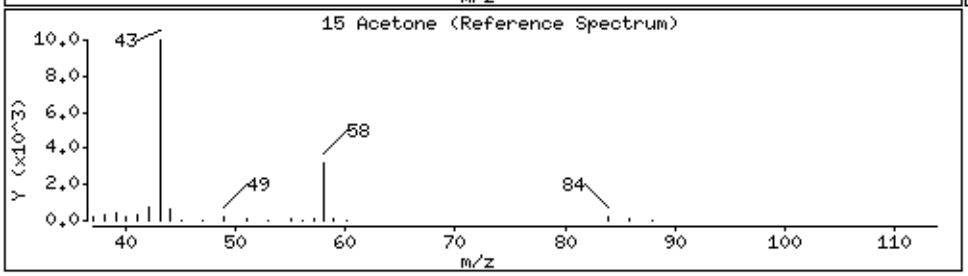
15 Acetone Concentration: 11.2 ug/l



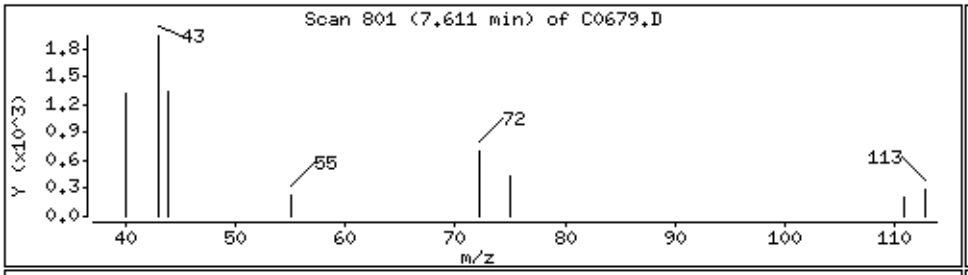


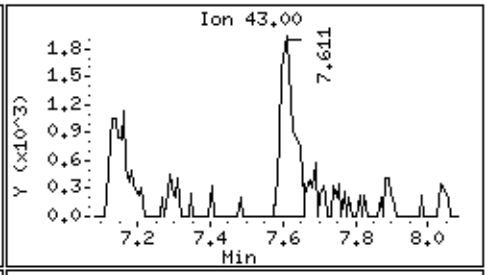


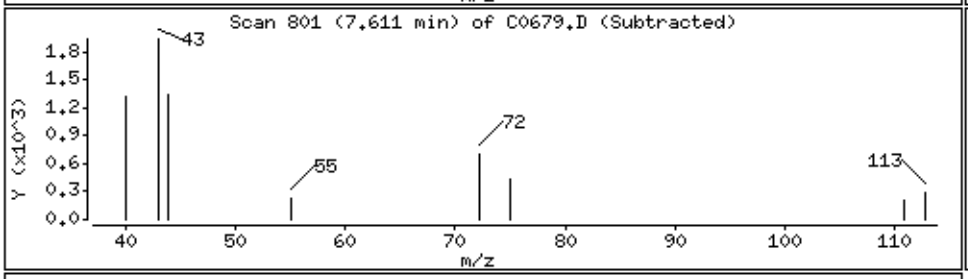


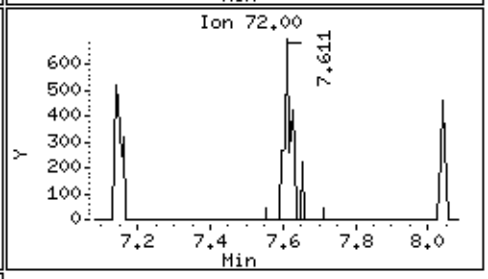


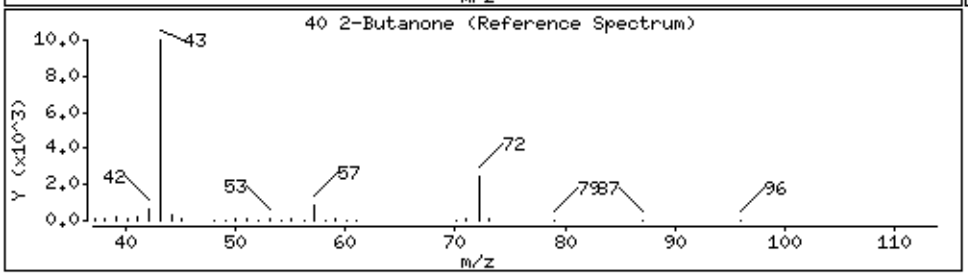
40 2-Butanone Concentration: 1.7 ug/l











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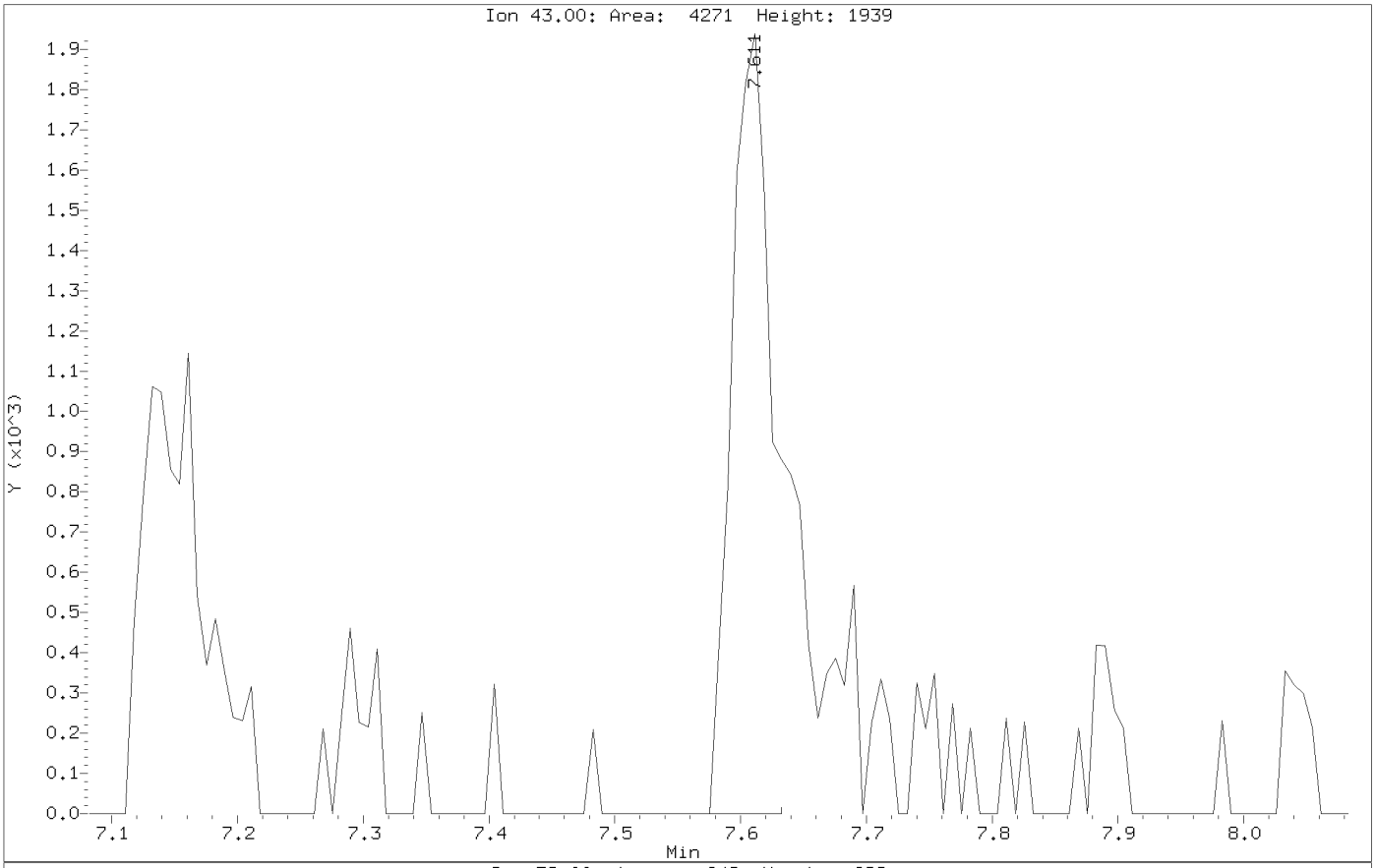
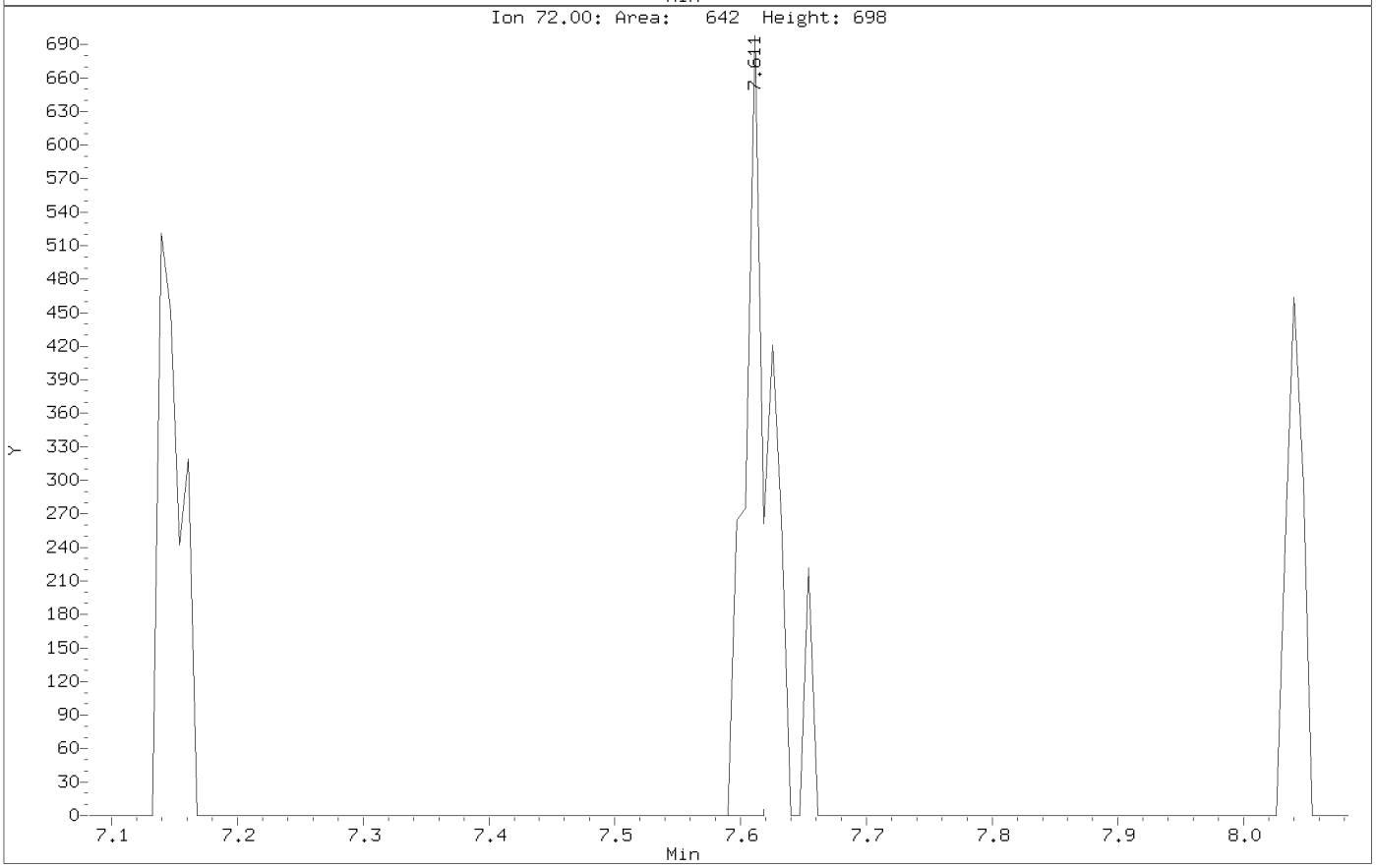
Injection Date: 22-DEC-2014 15:33
Instrument: gcms-c.i
Client Sample ID: 153-121514-818-820

BEFORE MANUAL INTEGRATION

Compound: 2-Butanone
CAS Number: 78-93-3

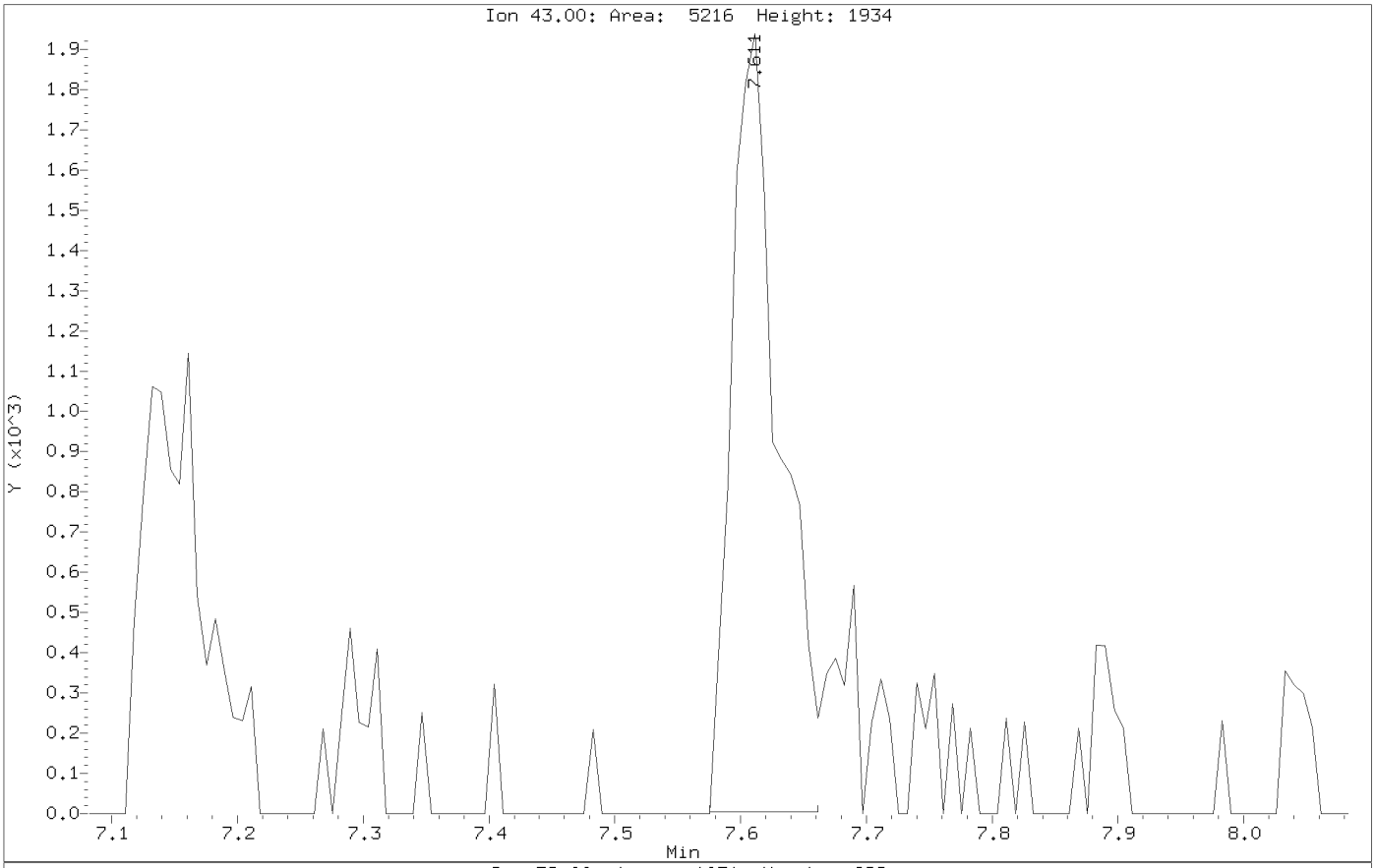


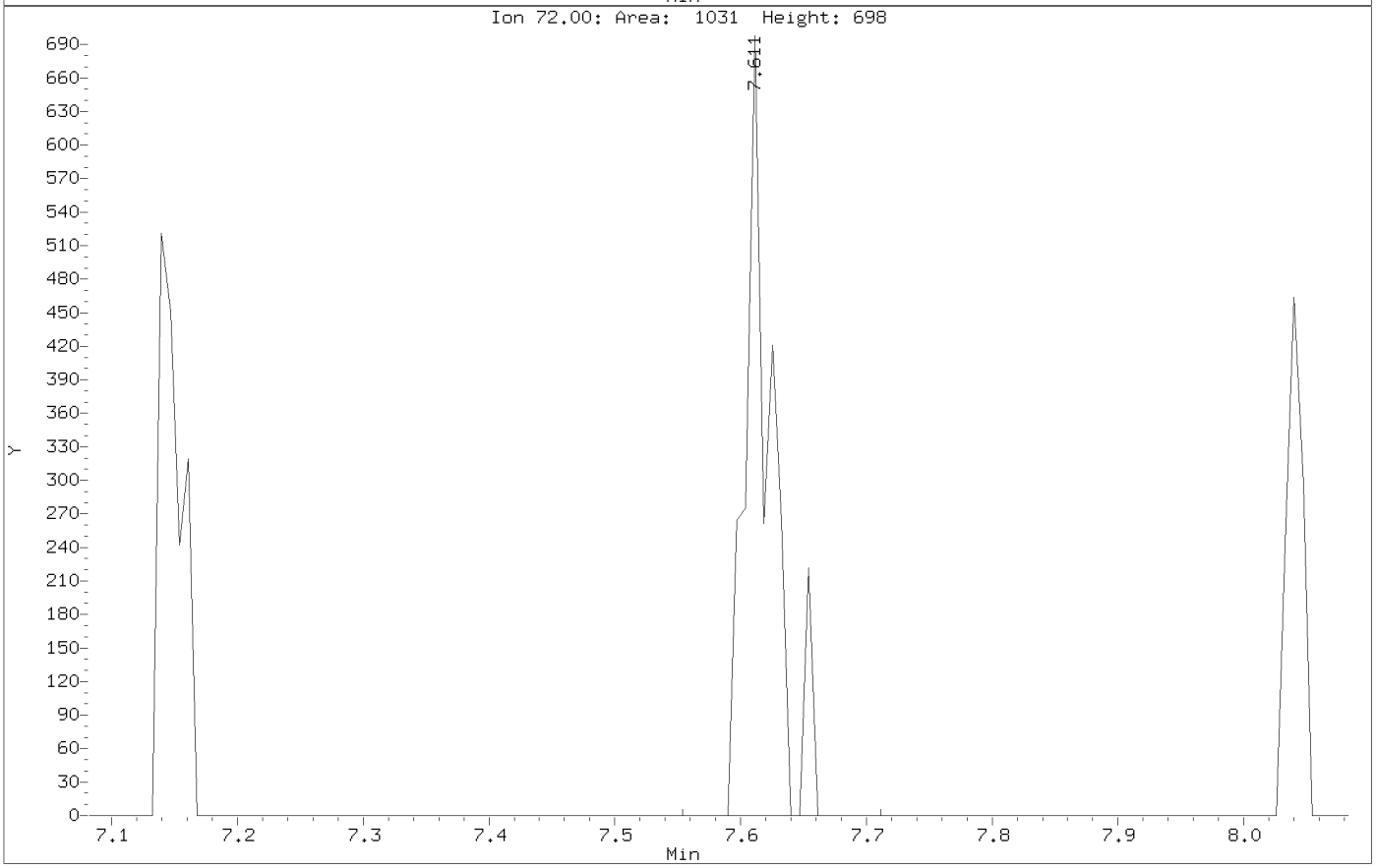


Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0679.D
Injection Date: 22-DEC-2014 15:33
Instrument: gcms-c.i
Client Sample ID: 153-121514-818-820

Compound: 2-Butanone
CAS Number: 78-93-3

AFTER MANUAL INTEGRATION





Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-3
Client ID: 153-121514-838-840
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0680.D

Sample Date: 15-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		15	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	J	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-3
Client ID: 153-121514-838-840
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0680.D

Sample Date: 15-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		107.	%					
Toluene-d8		106.	%					
1,2-Dichloroethane-d4		94.2	%					
Dibromofluoromethane		104.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0680.D
Report Date: 23-Dec-2014 14:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122214.b\C0680.D
Lab Smp Id: TH0715-3 Client Smp ID: 153-121514-838-840
Inj Date : 22-DEC-2014 16:05 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : TH0715-3
Misc Info : WG156070,WG154861-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C122214.b\C826A26.m
Meth Date : 23-Dec-2014 14:19 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

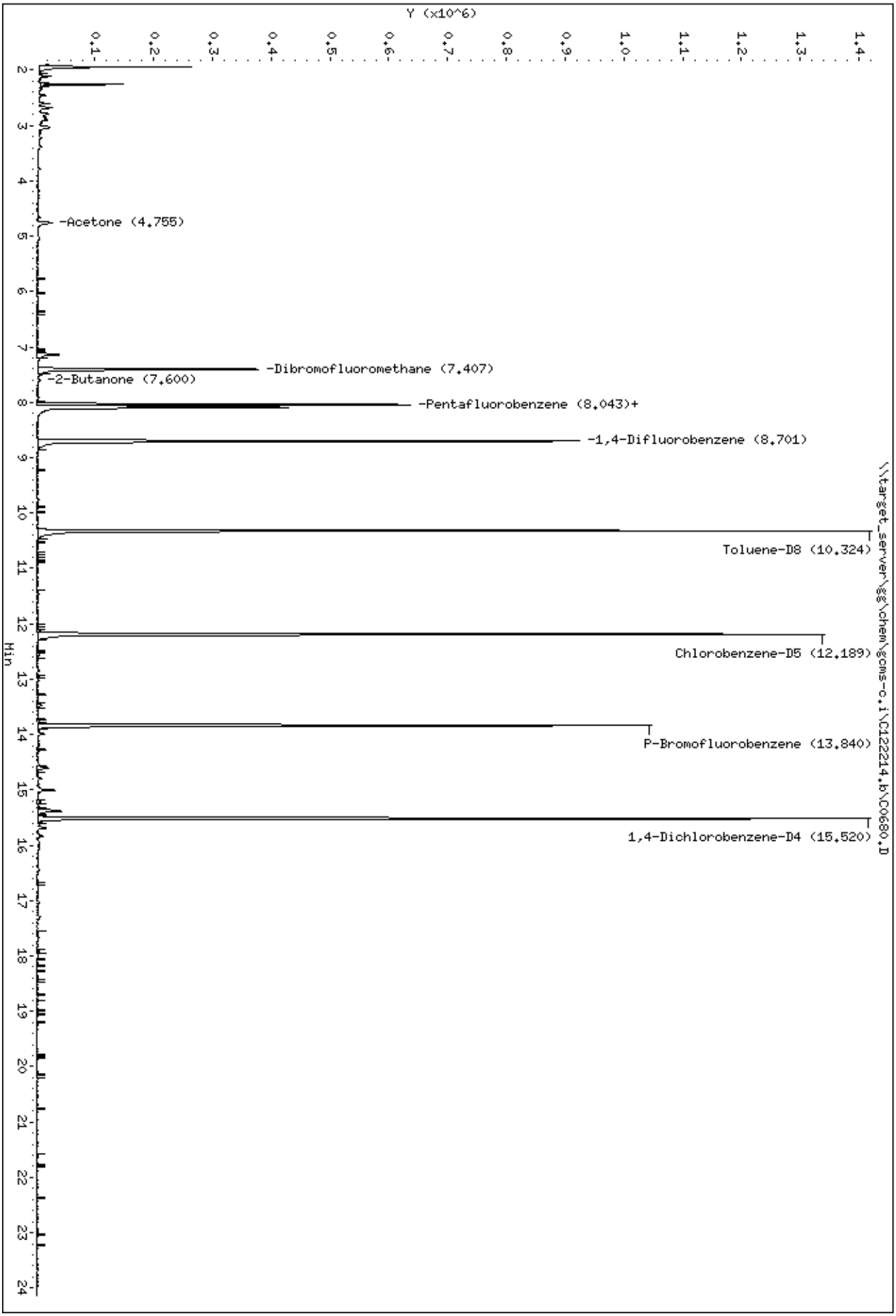
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.755	4.753	(0.591)	32161	15.1839	15.2	
$ 37 Dibromofluoromethane	113	7.407	7.405	(0.921)	244318	52.0587	52.0	
40 2-Butanone	43	7.600	7.584	(0.945)	7260	2.47013	2.5(aM)	M9
* 42 Pentafluorobenzene	168	8.043	8.041	(1.000)	430067	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.093	8.090	(1.006)	280272	47.1077	47.1	
* 49 1,4-Difluorobenzene	114	8.701	8.706	(1.000)	705310	50.0000		
$ 55 Toluene-D8	98	10.323	10.322	(1.186)	858531	52.8548	52.8	
* 66 Chlorobenzene-D5	117	12.189	12.194	(1.000)	746167	50.0000		
$ 76 P-Bromofluorobenzene	95	13.833	13.838	(1.590)	373803	53.3333	53.3	
* 91 1,4-Dichlorobenzene-D4	152	15.520	15.518	(1.000)	415822	50.0000		

REC
2:38 pm, Dec 23, 2014

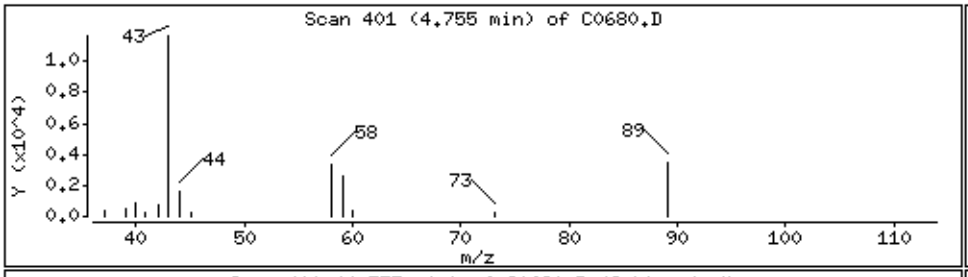
QC Flag Legend

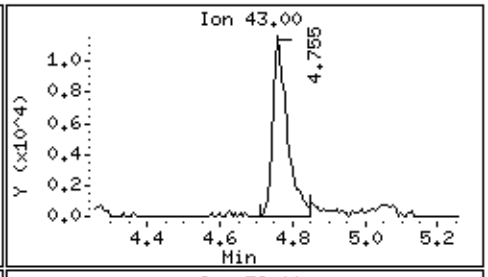
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

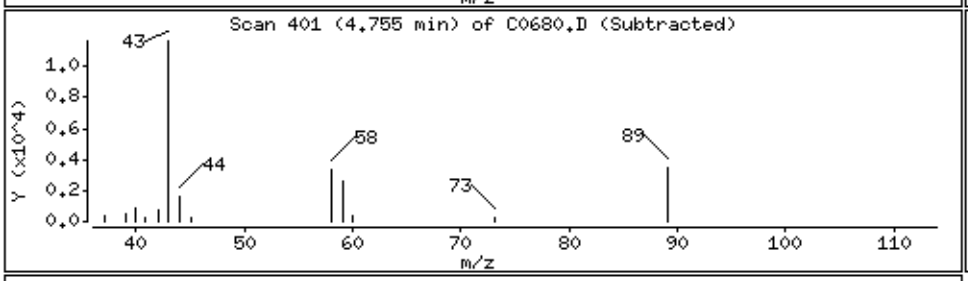

Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0680.D
Date : 22-DEC-2014 16:05
Client ID: 153-121514-838-840
Sample Info: TH0715-3
Instrument: gcms-c.i
\\target_server\gg\chem\gcms-c.i\C122214.b\C0680.D
Y (x10^6)
Min
-Acetone (4.755)
-Dibromofluoromethane (7.407)
-2-Butanone (7.600)
-Pentafluorobenzene (8.043)+
-1,4-Difluorobenzene (8.701)
Toluene-D8 (10.324)
Chlorobenzene-D5 (12.189)
P-Bromofluorobenzene (13.840)
1,4-Dichlorobenzene-D4 (15.520)

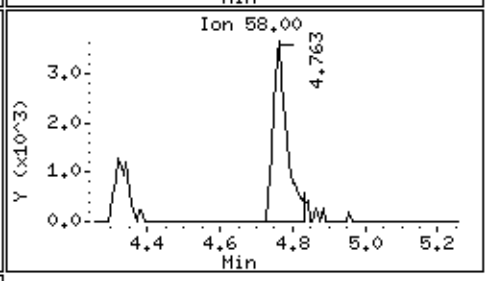
Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0680.D
Date : 22-DEC-2014 16:05
Client ID: 153-121514-838-840 Instrument: gcms-c.i
Sample Info: TH0715-3

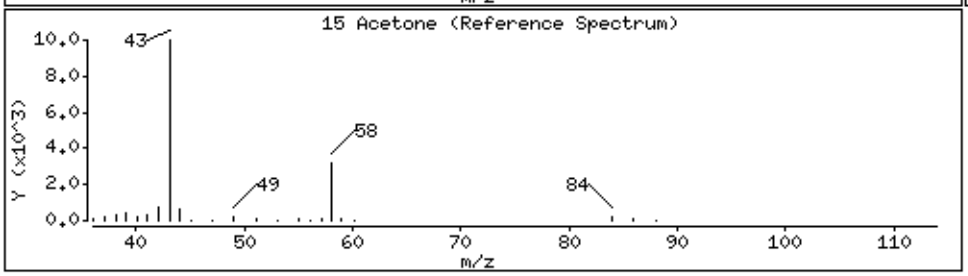
15 Acetone Concentration: 15.2 ug/l



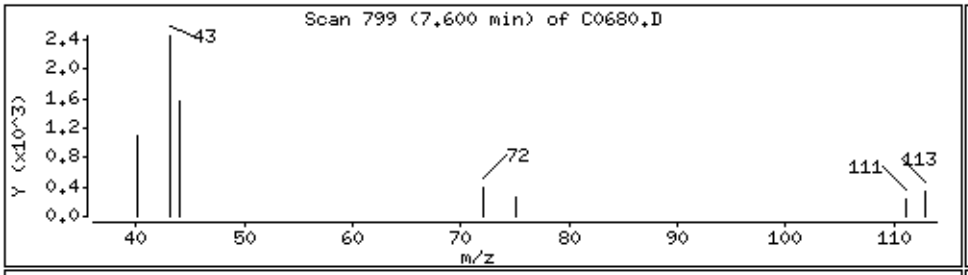


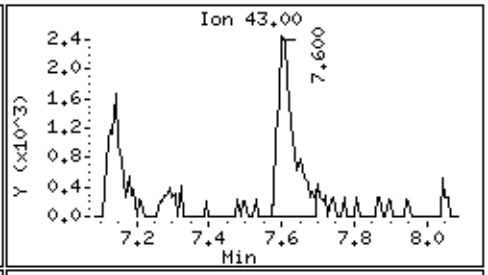


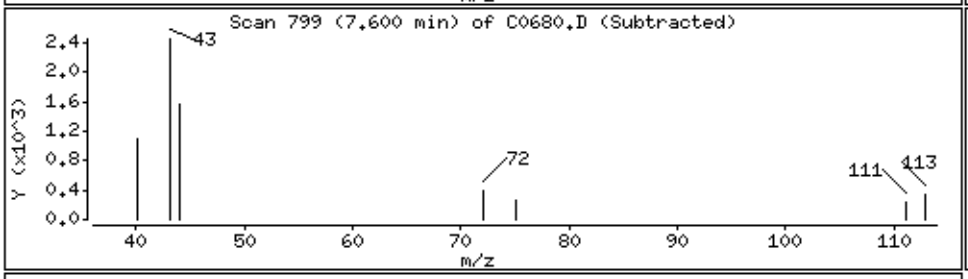


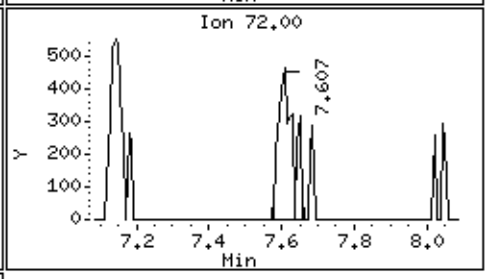


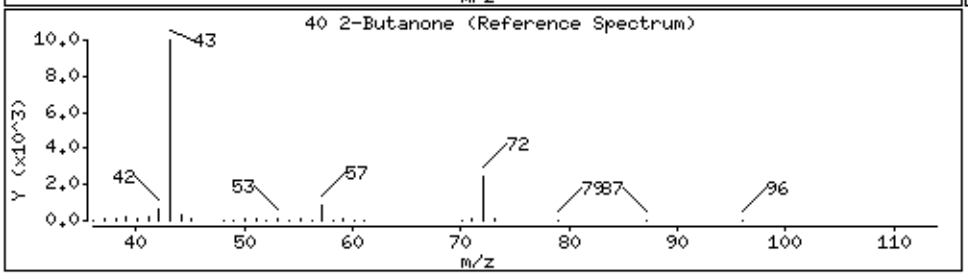
40 2-Butanone Concentration: 2.5 ug/l







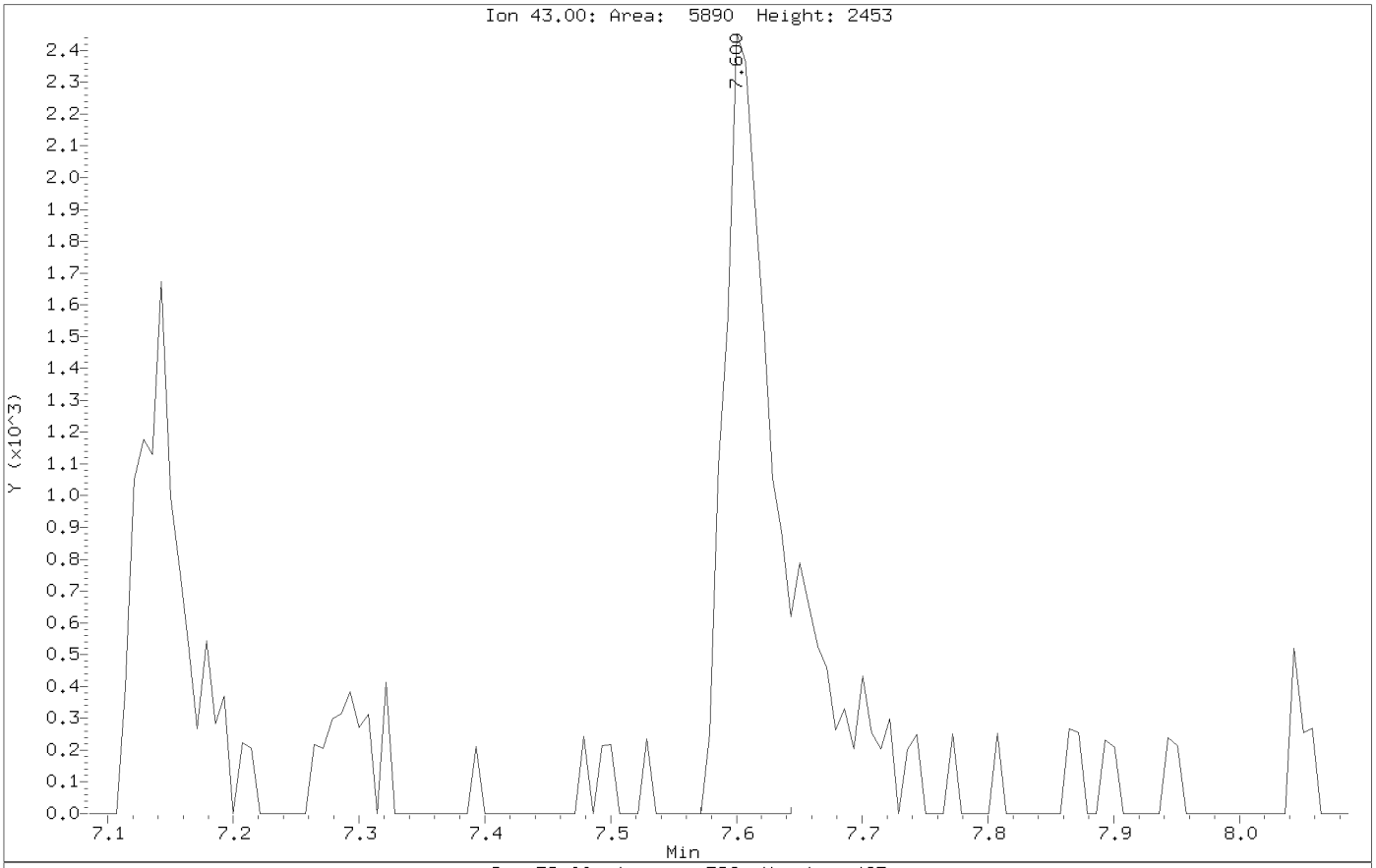


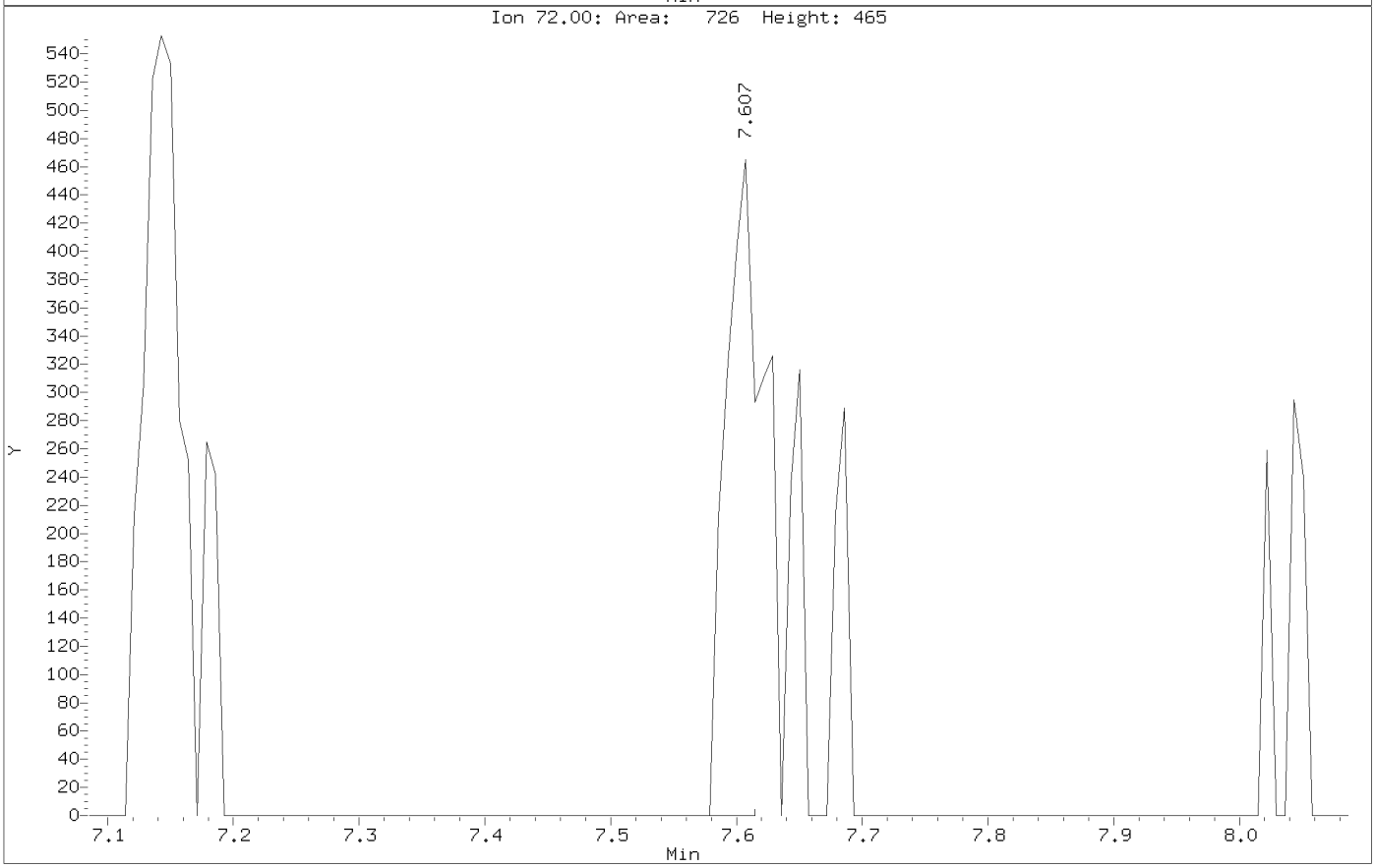


Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0680.D
Injection Date: 22-DEC-2014 16:05
Instrument: gcms-c.i
Client Sample ID: 153-121514-838-840

Compound: 2-Butanone
CAS Number: 78-93-3

BEFORE MANUAL INTEGRATION

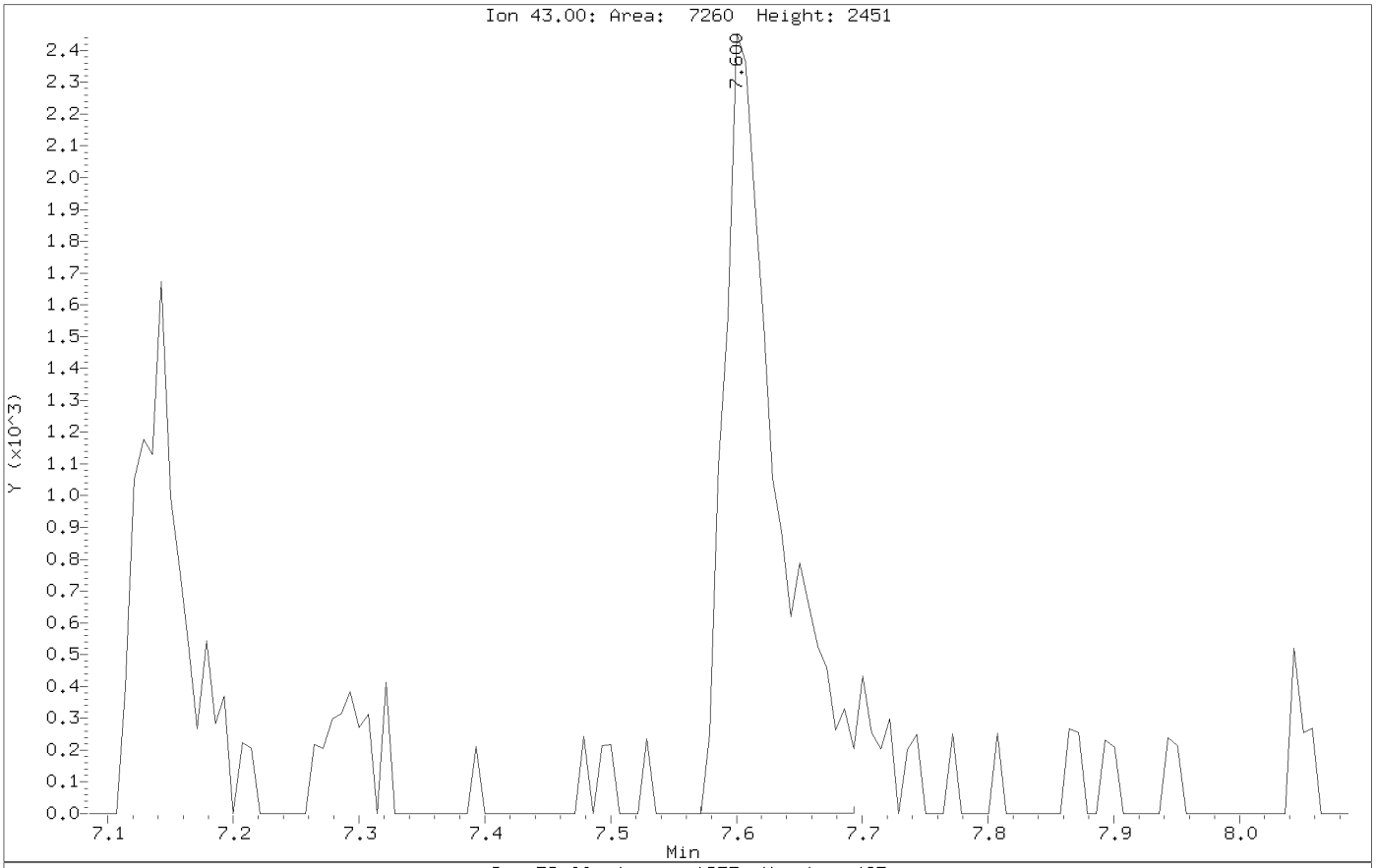


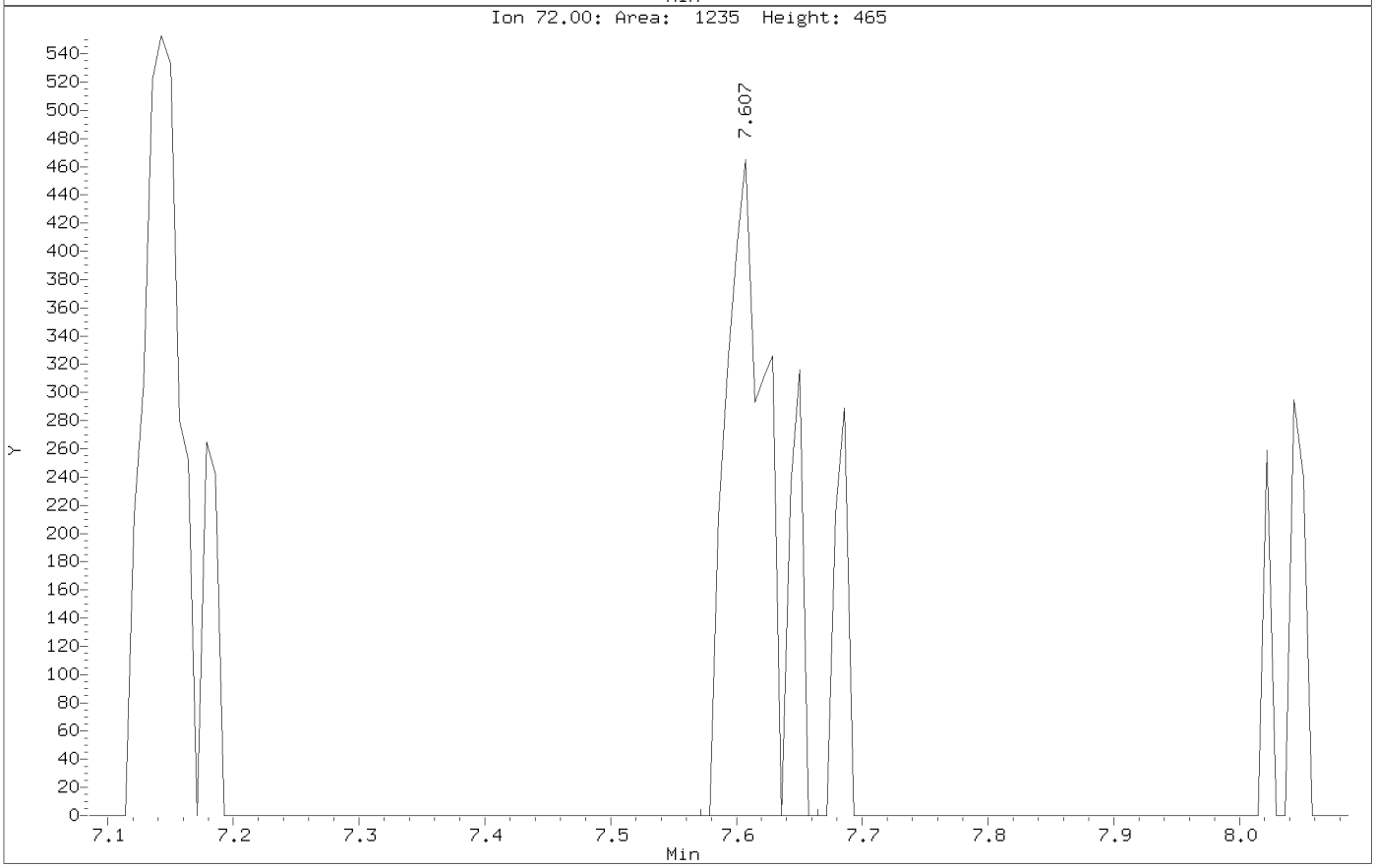


Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0680.D
Injection Date: 22-DEC-2014 16:05
Instrument: gcms-c.i
Client Sample ID: 153-121514-838-840

Compound: 2-Butanone
CAS Number: 78-93-3

AFTER MANUAL INTEGRATION





Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-4
Client ID: 153-121614-878-880
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0681.D

Sample Date: 16-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		12	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	J	2.0	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-4
Client ID: 153-121614-878-880
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0681.D

Sample Date: 16-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		102.	%					
Toluene-d8		105.	%					
1,2-Dichloroethane-d4		99.2	%					
Dibromofluoromethane		102.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0681.D
Report Date: 23-Dec-2014 14:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122214.b\C0681.D
Lab Smp Id: TH0715-4 Client Smp ID: 153-121614-878-880
Inj Date : 22-DEC-2014 16:37 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : TH0715-4
Misc Info : WG156070,WG154861-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C122214.b\C826A26.m
Meth Date : 23-Dec-2014 14:19 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

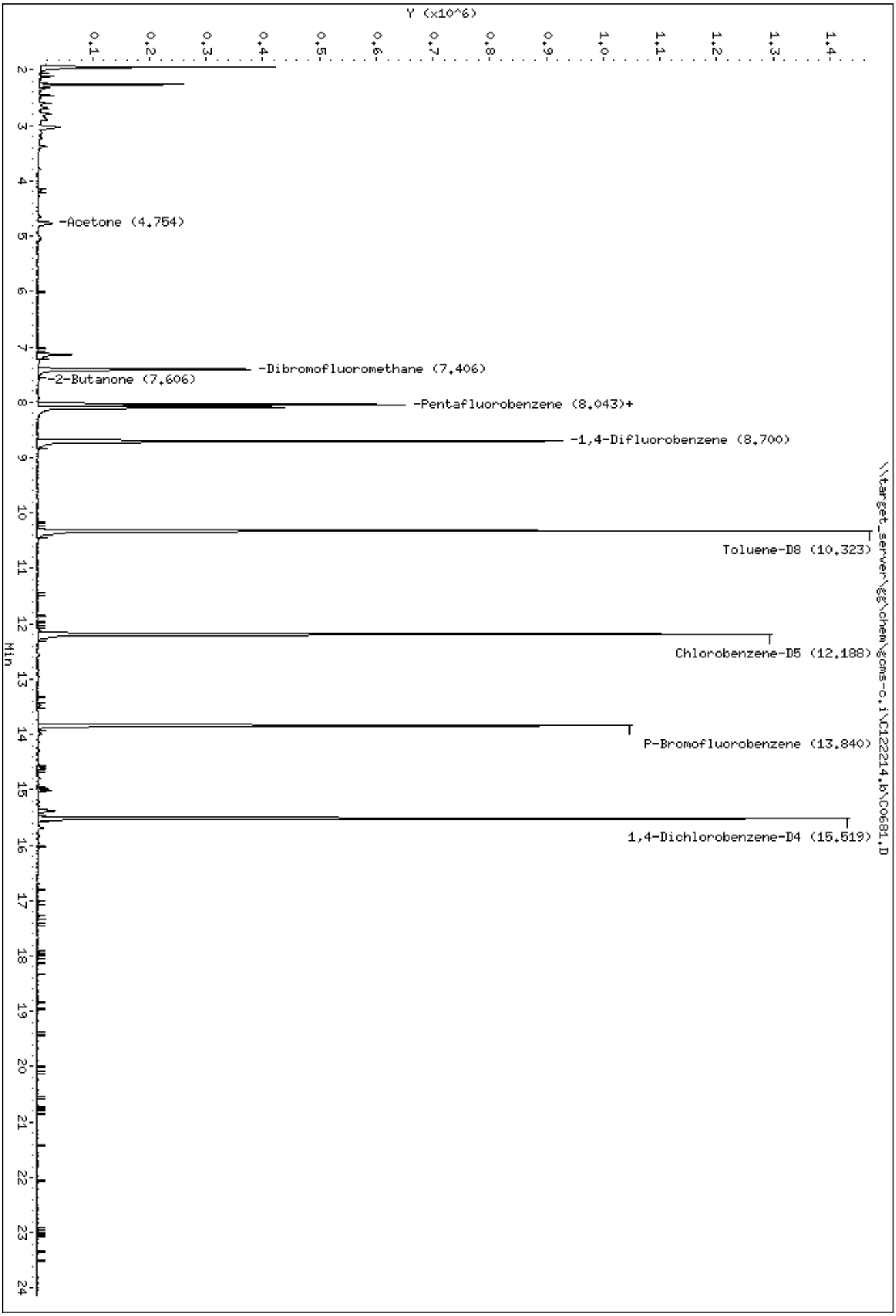
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.754	4.753	(0.591)	25292	12.0252	12.0	
$ 37 Dibromofluoromethane	113	7.406	7.405	(0.921)	238111	51.0941	51.1	
40 2-Butanone	43	7.606	7.584	(0.946)	5989	2.05207	2.0(aM)	M9
* 42 Pentafluorobenzene	168	8.042	8.041	(1.000)	427054	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.092	8.090	(1.006)	292966	49.5887	49.6	
* 49 1,4-Difluorobenzene	114	8.700	8.706	(1.000)	714118	50.0000		
$ 55 Toluene-D8	98	10.322	10.322	(1.187)	860290	52.3099	52.3	
* 66 Chlorobenzene-D5	117	12.188	12.194	(1.000)	730955	50.0000		
$ 76 P-Bromofluorobenzene	95	13.839	13.838	(1.591)	363630	51.2419	51.2	
* 91 1,4-Dichlorobenzene-D4	152	15.519	15.518	(1.000)	414911	50.0000		

REC
2:38 pm, Dec 23, 2014

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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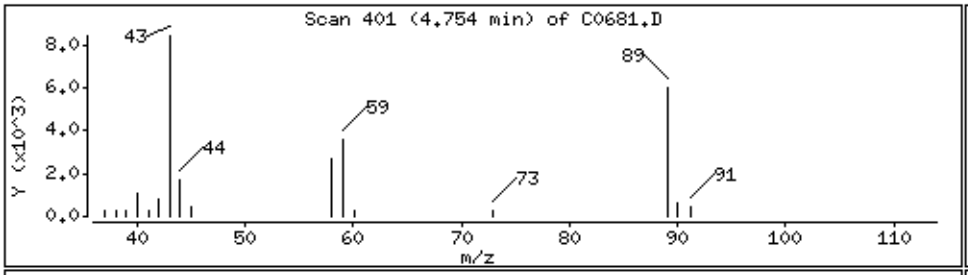
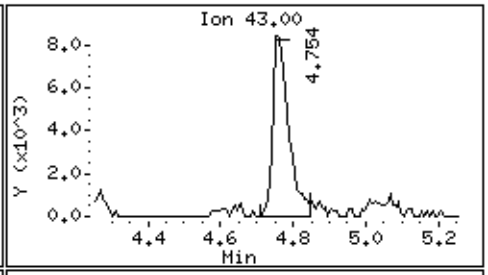
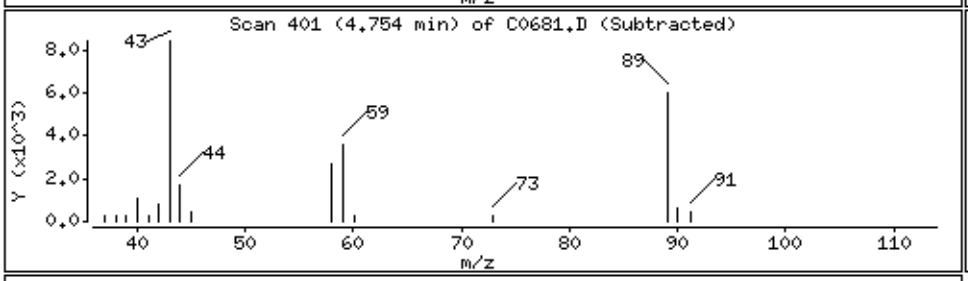
Date : 22-DEC-2014 16:37
Client ID: 153-121614-878-880
Sample Info: TH0715-4
Instrument: gcms-c.i
\\target_server\gg\chem\gcms-c.i\C122214.b\C0681.D
Y (x10^6)
Min
-Acetone (4.754)
-Dibromofluoromethane (7.406)
-2-Butanone (7.606)
-Pentafluorobenzene (8.043)+
-1,4-Difluorobenzene (8.700)
Toluene-D8 (10.323)
Chlorobenzene-D5 (12.188)
P-Bromofluorobenzene (13.840)
1,4-Dichlorobenzene-D4 (15.519)

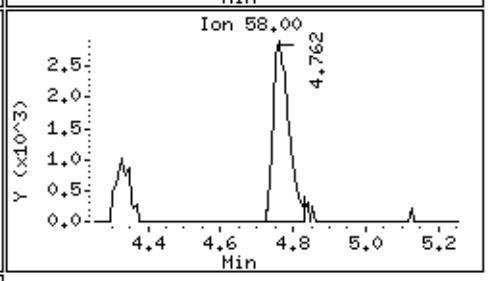
Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0681.D
Date : 22-DEC-2014 16:37
Client ID: 153-121614-878-880 Instrument: gcms-c.i
Sample Info: TH0715-4

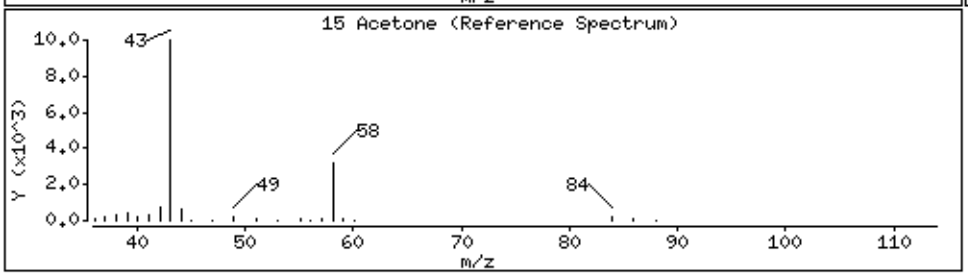
15 Acetone Concentration: 12.0 ug/l



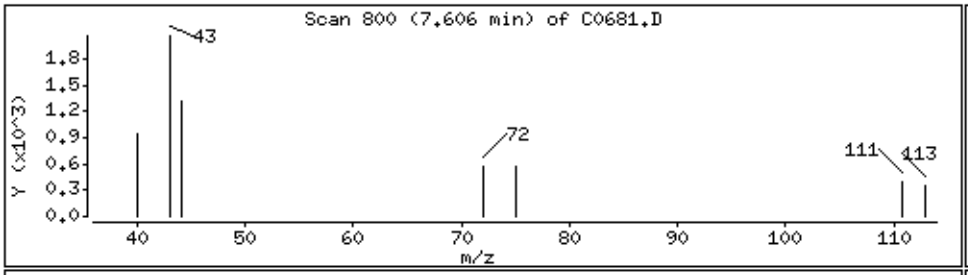


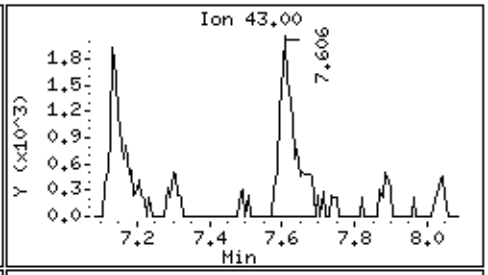


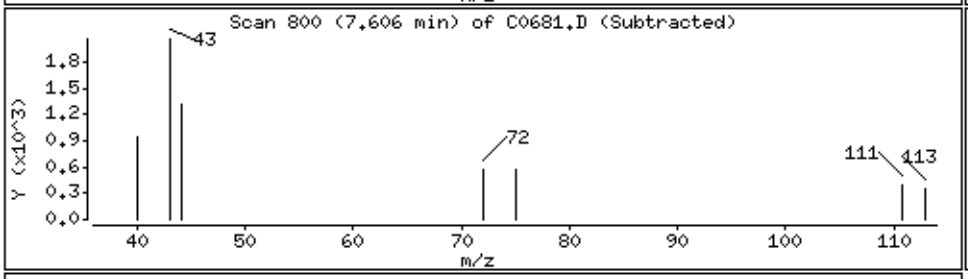


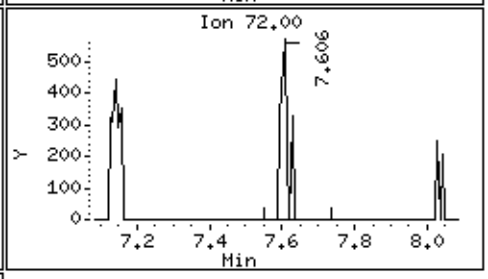


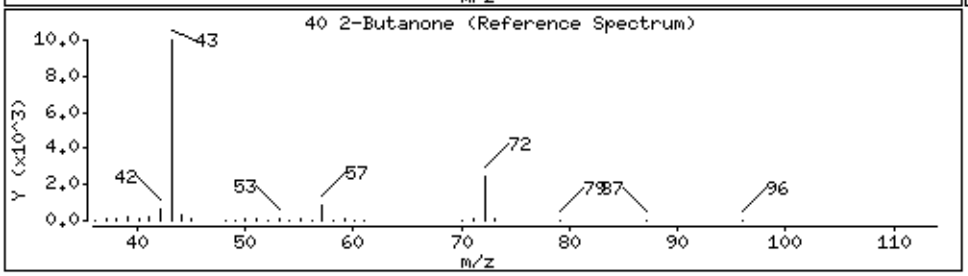
40 2-Butanone Concentration: 2.0 ug/l











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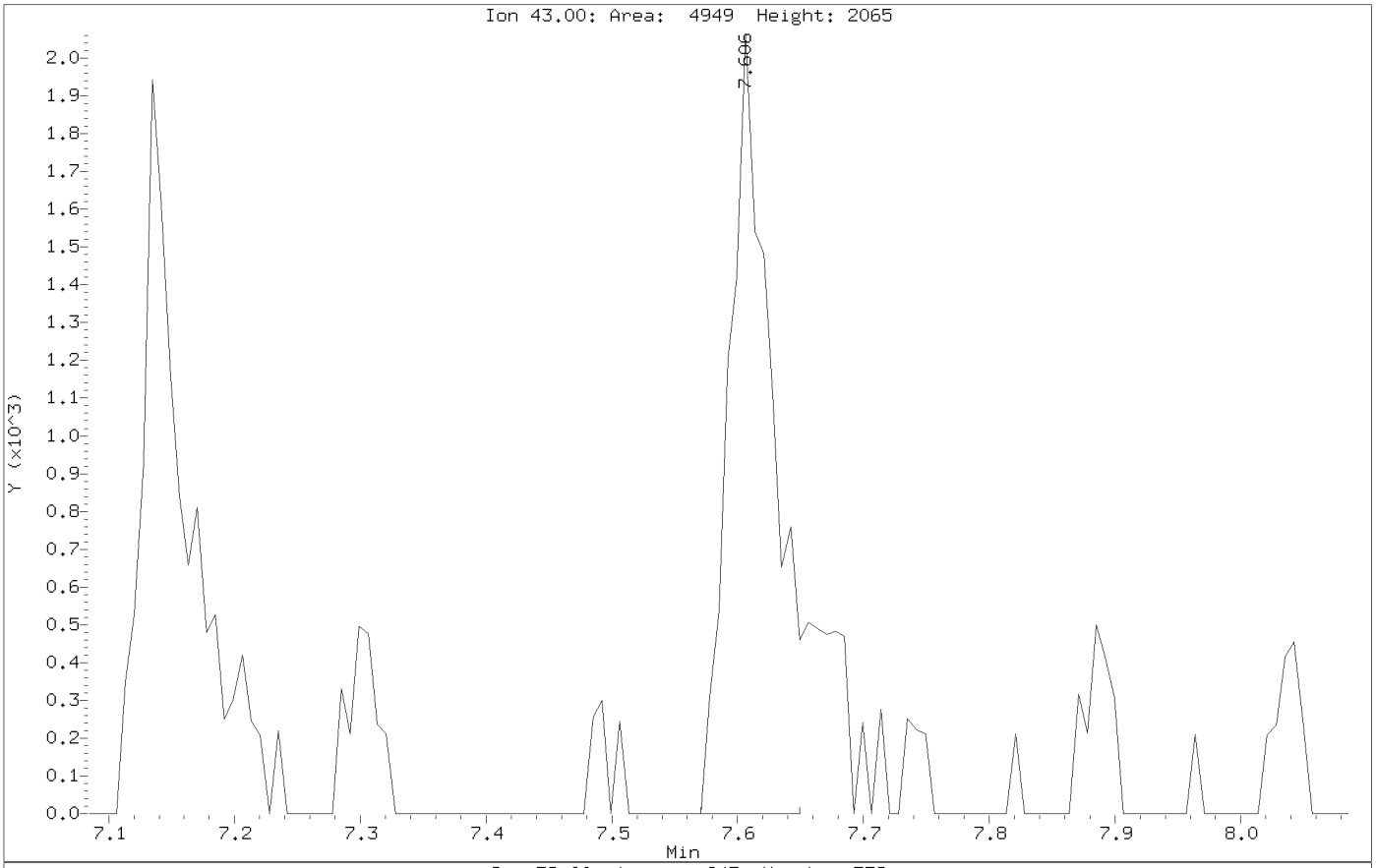
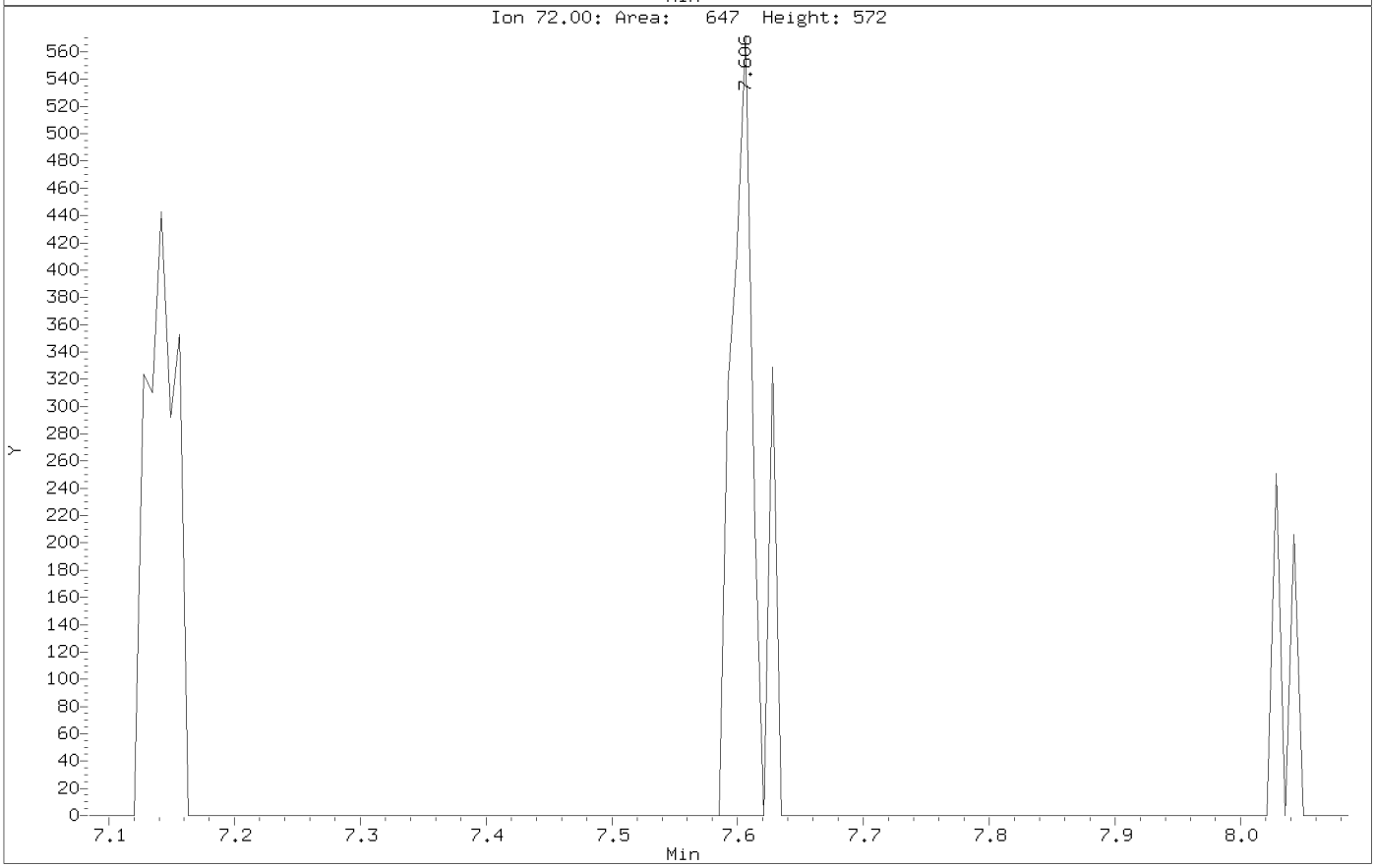
Injection Date: 22-DEC-2014 16:37
Instrument: gcms-c.i
Client Sample ID: 153-121614-878-880

BEFORE MANUAL INTEGRATION

Compound: 2-Butanone
CAS Number: 78-93-3

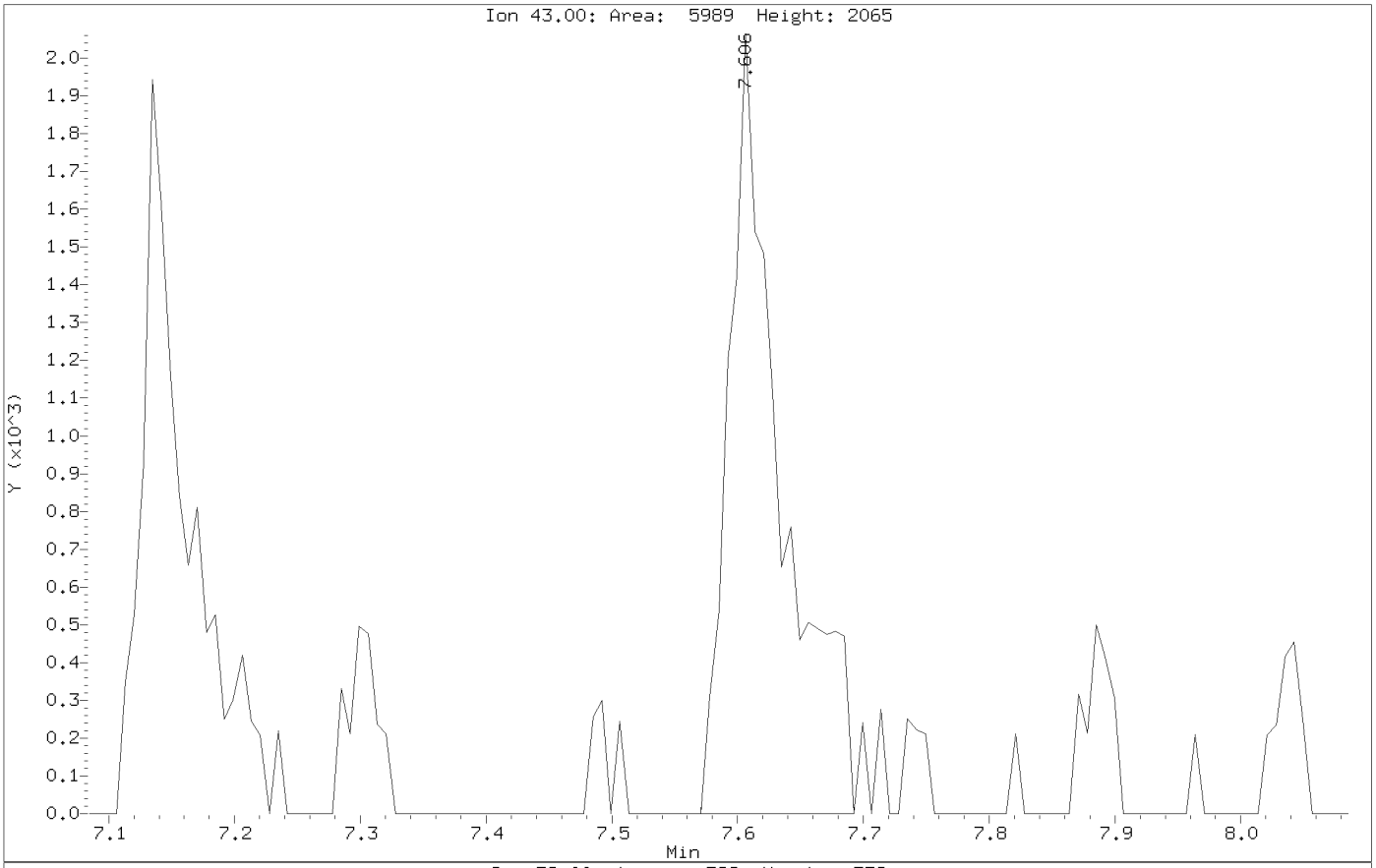


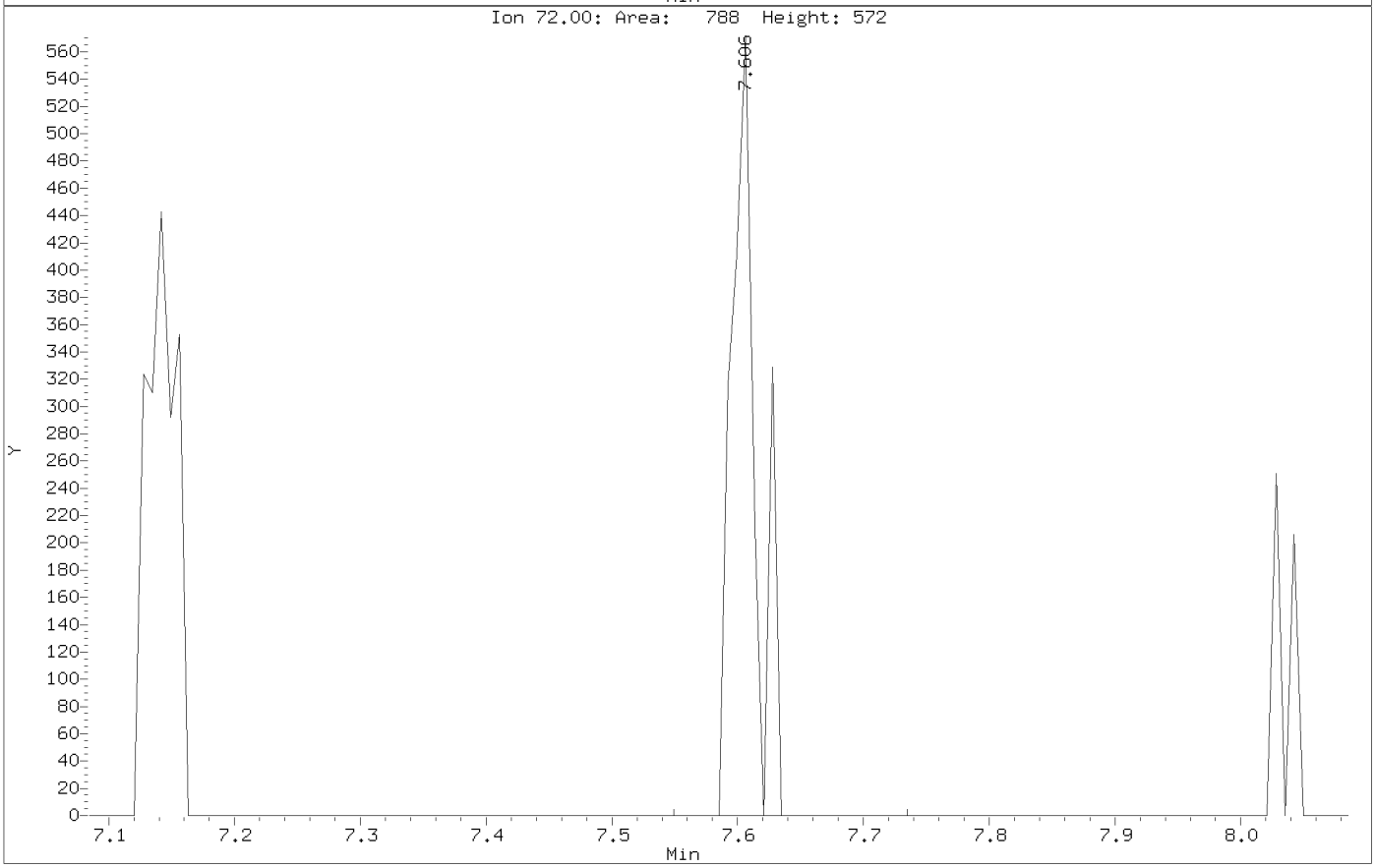


Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0681.D
Injection Date: 22-DEC-2014 16:37
Instrument: gcms-c.i
Client Sample ID: 153-121614-878-880

Compound: 2-Butanone
CAS Number: 78-93-3

AFTER MANUAL INTEGRATION





Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-5
Client ID: 153-121614-898-900
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0682.D

Sample Date: 16-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		11	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-5
Client ID: 153-121614-898-900
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0682.D

Sample Date: 16-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		106.	%					
Toluene-d8		106.	%					
1,2-Dichloroethane-d4		99.2	%					
Dibromofluoromethane		103.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0682.D
Report Date: 23-Dec-2014 14:28

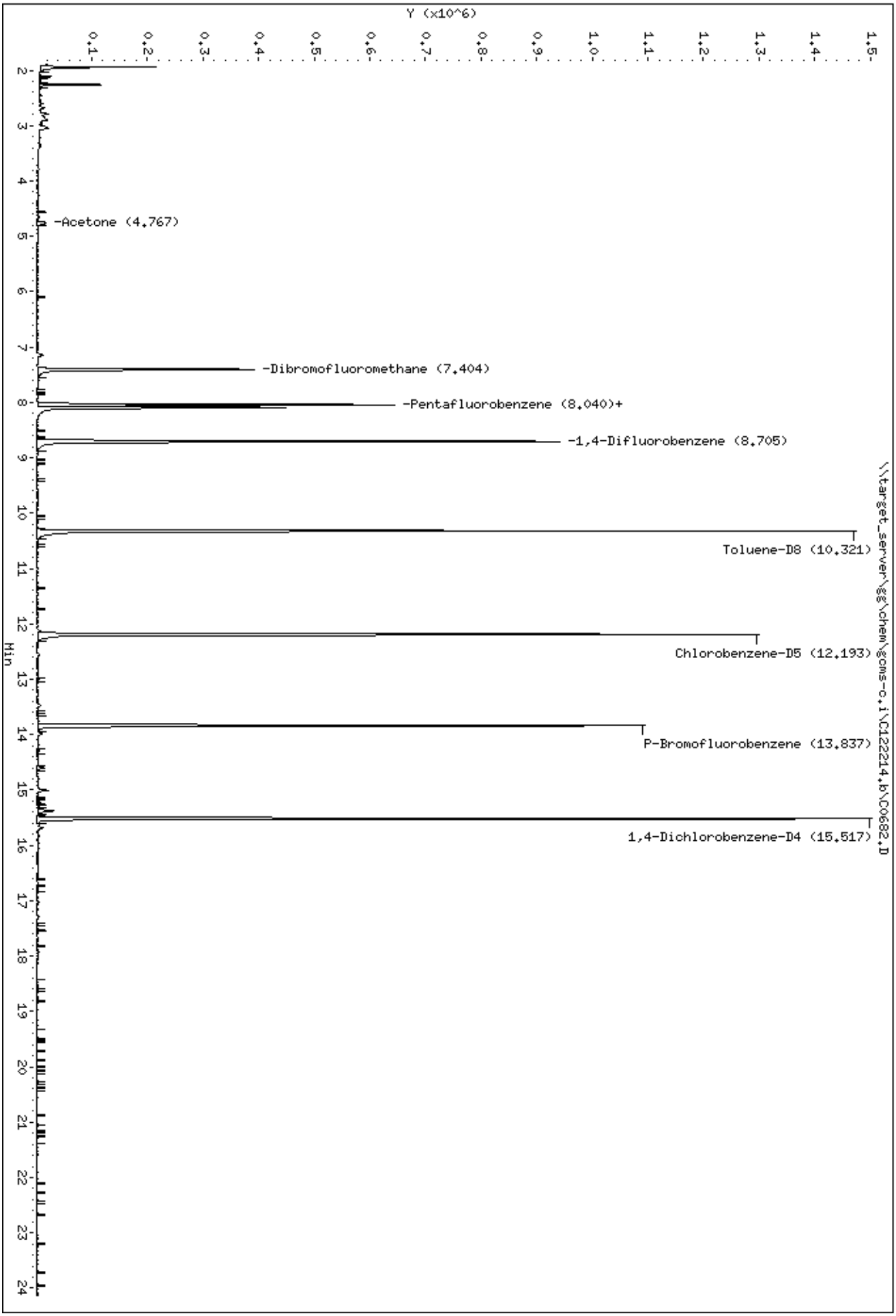
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122214.b\C0682.D
Lab Smp Id: TH0715-5 Client Smp ID: 153-121614-898-900
Inj Date : 22-DEC-2014 17:08 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : TH0715-5
Misc Info : WG156070,WG154861-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C122214.b\C826A26.m
Meth Date : 23-Dec-2014 14:19 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

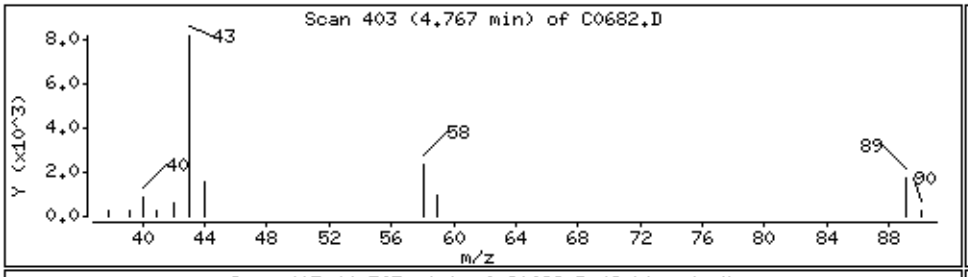
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

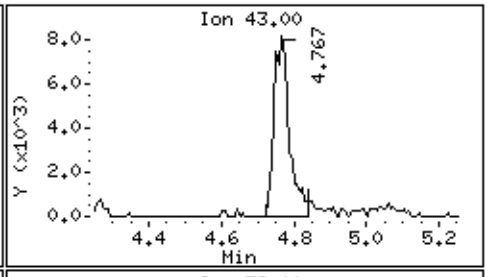
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.766	4.753	(0.593)	23589	11.2877	11.3	
$ 37 Dibromofluoromethane	113	7.404	7.405	(0.921)	238906	51.5951	51.6	
* 42 Pentafluorobenzene	168	8.040	8.041	(1.000)	424319	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	291253	49.6165	49.6	
* 49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	707234	50.0000		
$ 55 Toluene-D8	98	10.320	10.322	(1.186)	866365	53.1920	53.2	
* 66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	748528	50.0000		
$ 76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	372745	53.0376	53.0	
* 91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	421926	50.0000		

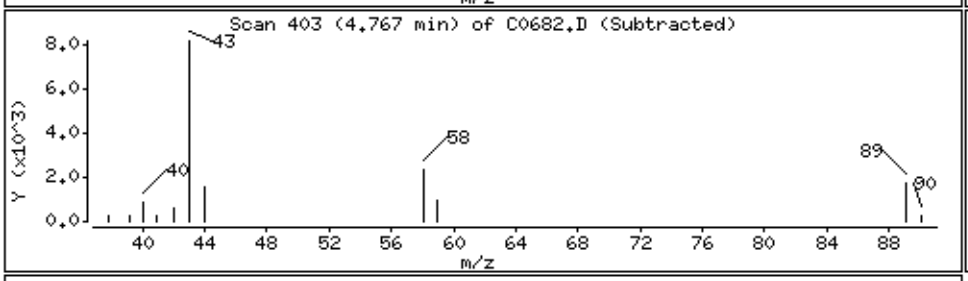

Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0682.D
Date : 22-DEC-2014 17:08
Client ID: 153-121614-898-900
Sample Info: TH0715-5
Instrument: gcms-c.i
\\target_server\gg\chem\gcms-c.i\C122214.b\C0682.D
Y (x10^6)
Min
-Acetone (4.767)
-Dibromofluoromethane (7.404)
-Pentafluorobenzene (8.040)+
-1,4-Difluorobenzene (8.705)
Toluene-D8 (10.321)
Chlorobenzene-D5 (12.193)
P-Bromofluorobenzene (13.837)
1,4-Dichlorobenzene-D4 (15.517)

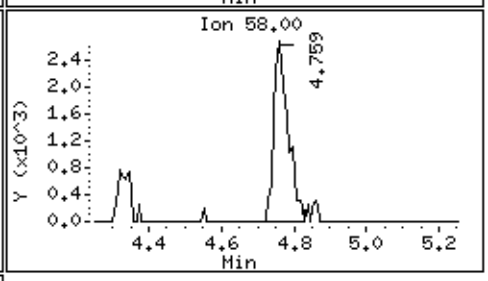
Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0682.D
Date : 22-DEC-2014 17:08
Client ID: 153-121614-898-900 Instrument: gcms-c.i
Sample Info: TH0715-5

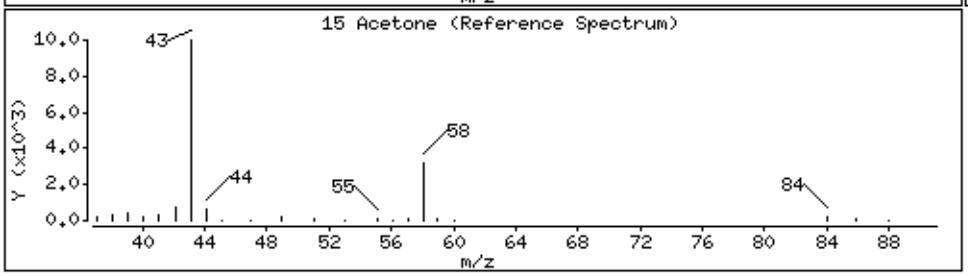
15 Acetone Concentration: 11.3 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-6
Client ID: 153-121614-918-920
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0683.D

Sample Date: 16-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		15	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	J	2.1	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-6
Client ID: 153-121614-918-920
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0683.D

Sample Date: 16-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		104.	%					
Toluene-d8		104.	%					
1,2-Dichloroethane-d4		101.	%					
Dibromofluoromethane		108.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0683.D
Report Date: 23-Dec-2014 14:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122214.b\C0683.D
Lab Smp Id: TH0715-6 Client Smp ID: 153-121614-918-920
Inj Date : 22-DEC-2014 17:40 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : TH0715-6
Misc Info : WG156070,WG154861-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C122214.b\C826A26.m
Meth Date : 23-Dec-2014 14:19 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

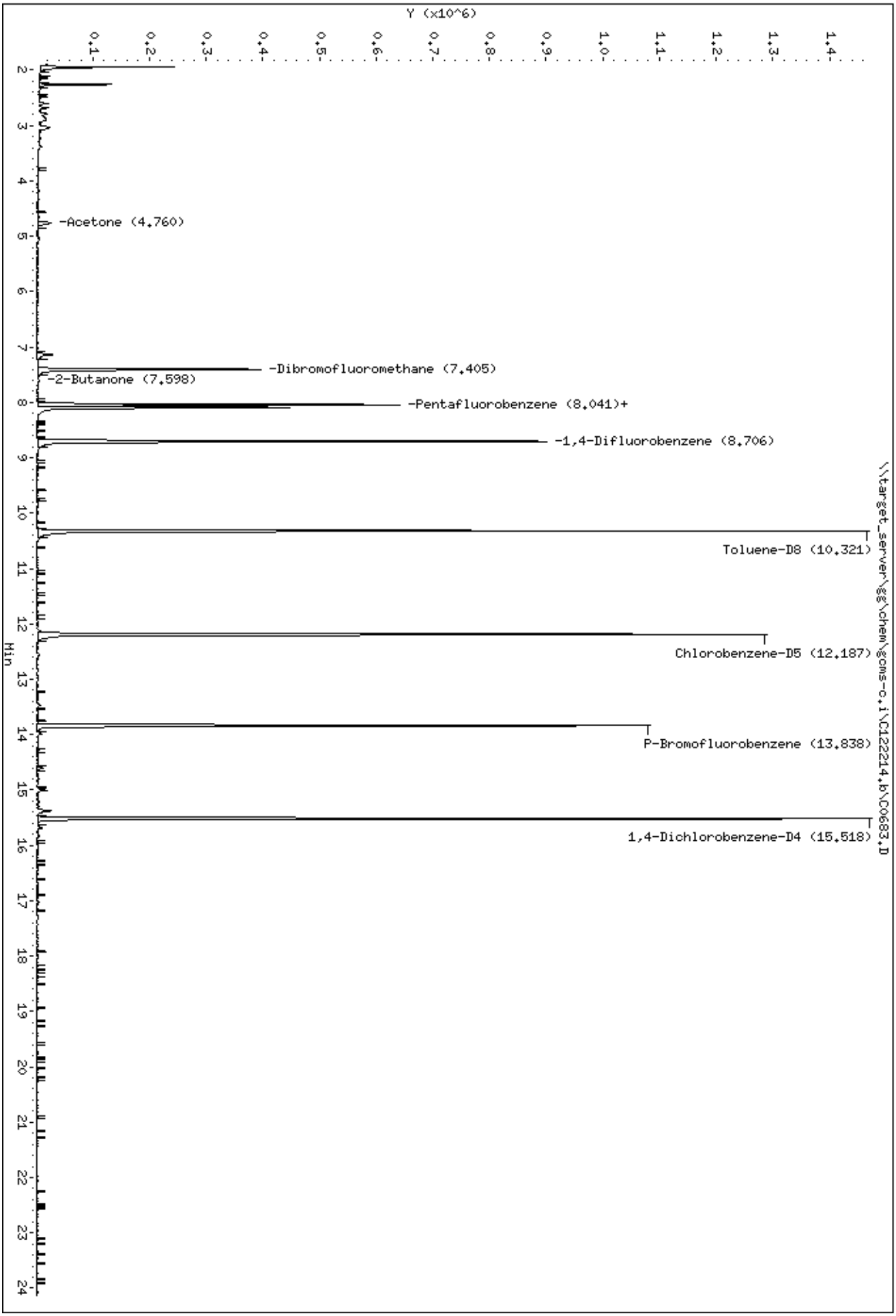
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.760	4.753	(0.592)	30824	15.0399	15.0	
$ 37 Dibromofluoromethane	113	7.404	7.405	(0.921)	244196	53.7746	53.8	
40 2-Butanone	43	7.597	7.584	(0.945)	6107	2.14740	2.1(aM)	M10
* 42 Pentafluorobenzene	168	8.041	8.041	(1.000)	416136	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.091	8.090	(1.006)	291739	50.6766	50.7	
* 49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	707571	50.0000		
$ 55 Toluene-D8	98	10.321	10.322	(1.186)	849481	52.1305	52.1	
* 66 Chlorobenzene-D5	117	12.186	12.194	(1.000)	735850	50.0000		
$ 76 P-Bromofluorobenzene	95	13.838	13.838	(1.590)	366320	52.0986	52.1	
* 91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	413969	50.0000		

REC
2:39 pm, Dec 23, 2014

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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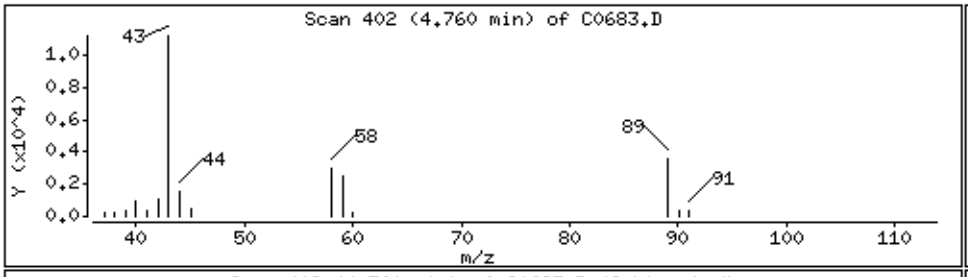
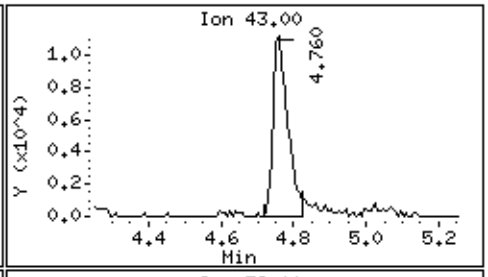
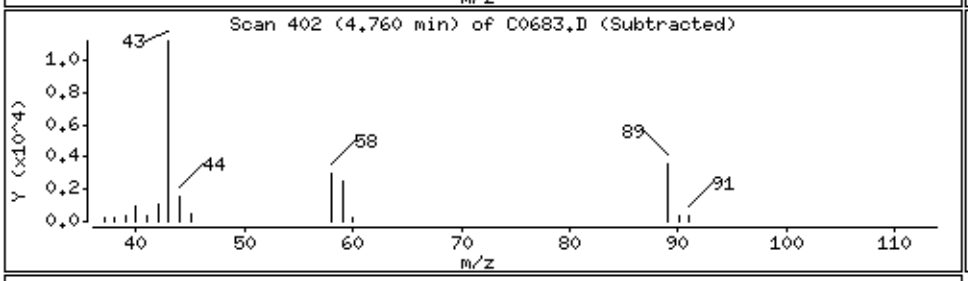
Date : 22-DEC-2014 17:40
Client ID: 153-121614-918-920
Sample Info: TH0715-6
Instrument: gcms-c.i
\\target_server\gg\chem\gcms-c.i\C122214.b\C0683.D
Y (x10^6)
Min
-Acetone (4.760)
-Dibromofluoromethane (7.405)
-2-Butanone (7.598)
-Pentafluorobenzene (8.041)+
-1,4-Difluorobenzene (8.706)
Toluene-D8 (10.321)
Chlorobenzene-D5 (12.187)
P-Bromofluorobenzene (13.838)
1,4-Dichlorobenzene-D4 (15.518)

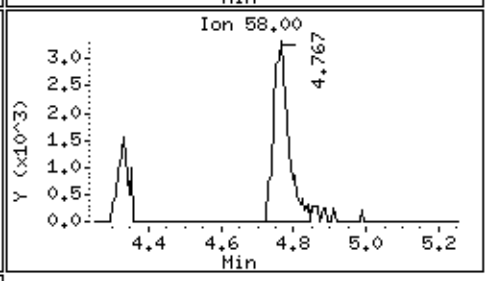
Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0683.D
Date : 22-DEC-2014 17:40
Client ID: 153-121614-918-920 Instrument: gcms-c.i
Sample Info: TH0715-6

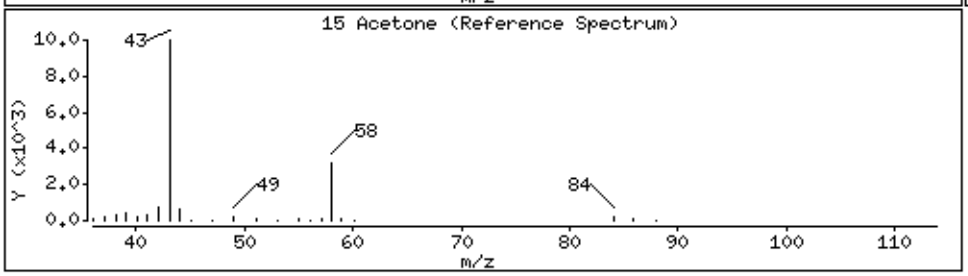
15 Acetone Concentration: 15.0 ug/l



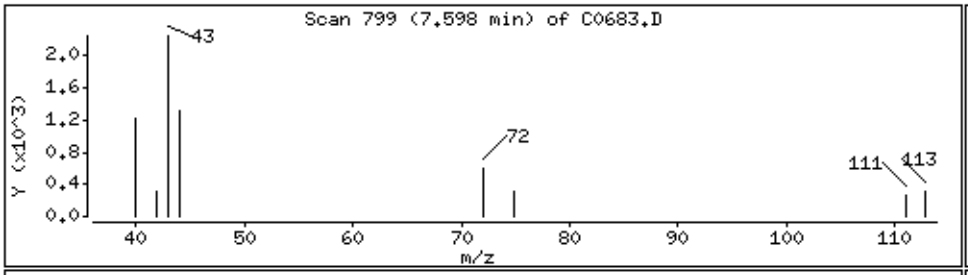


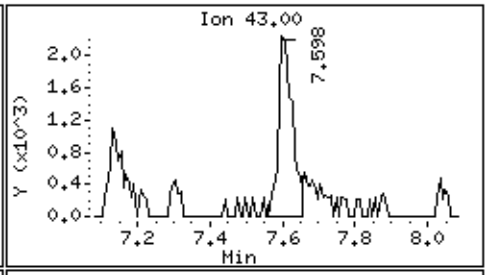


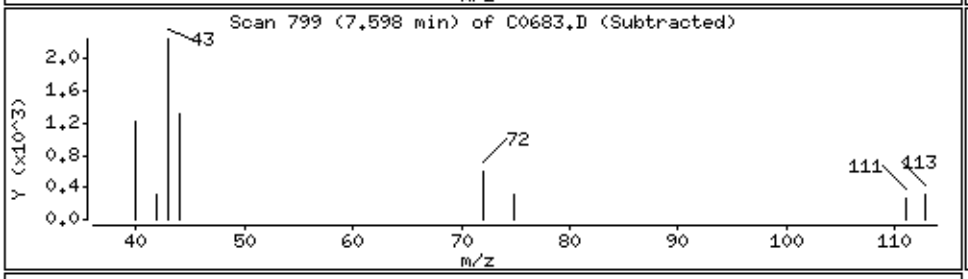


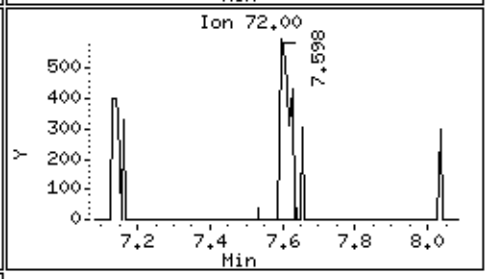


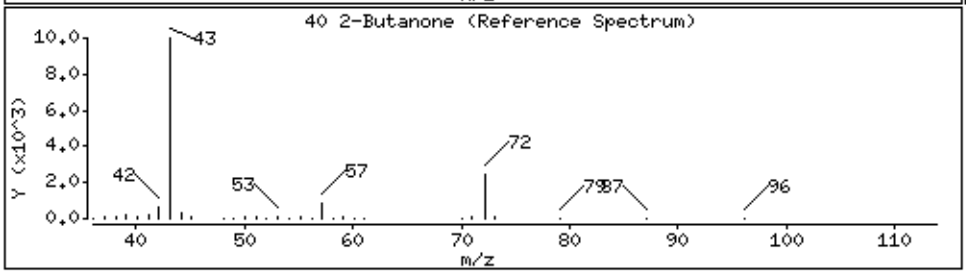
40 2-Butanone Concentration: 2.1 ug/l











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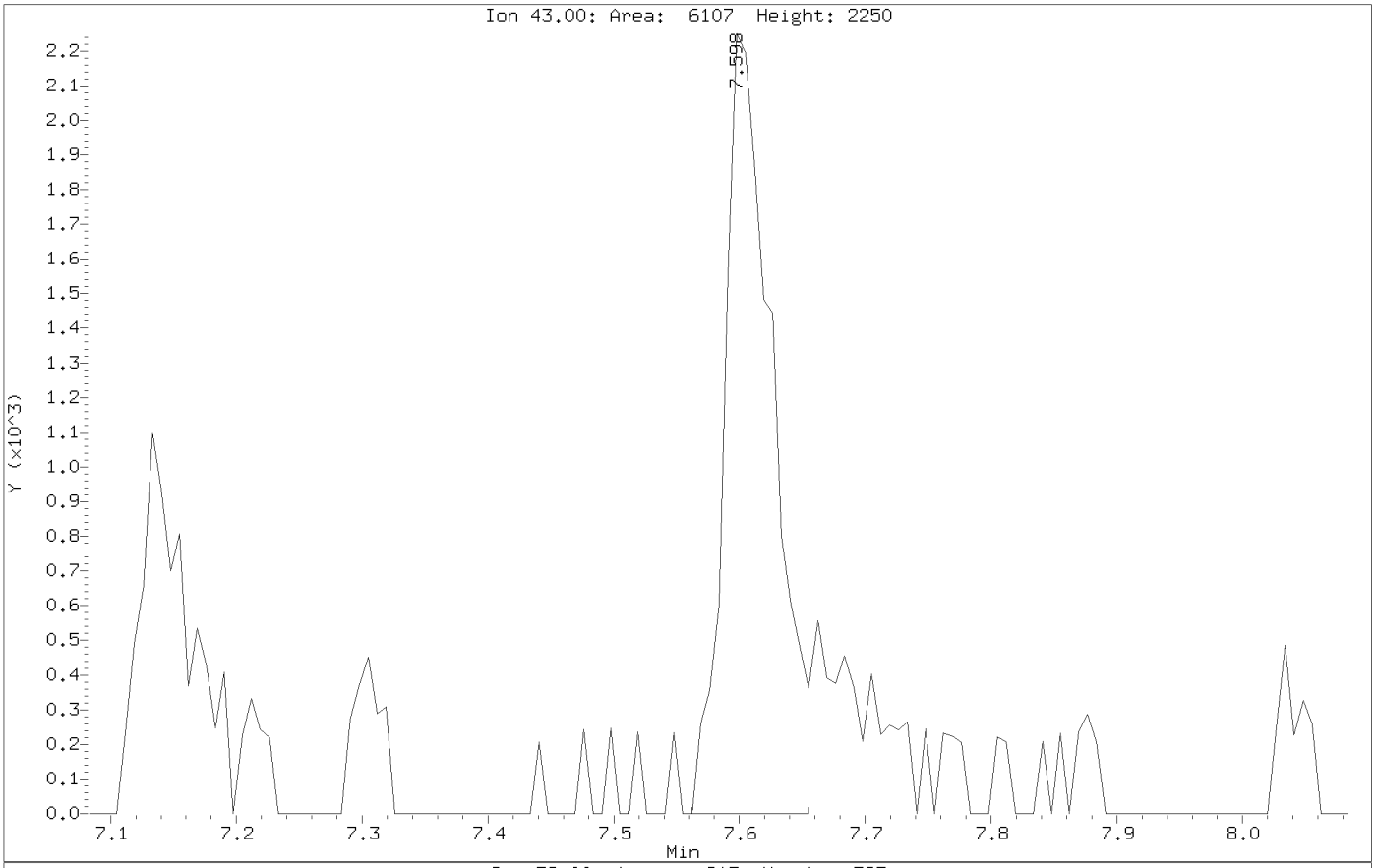
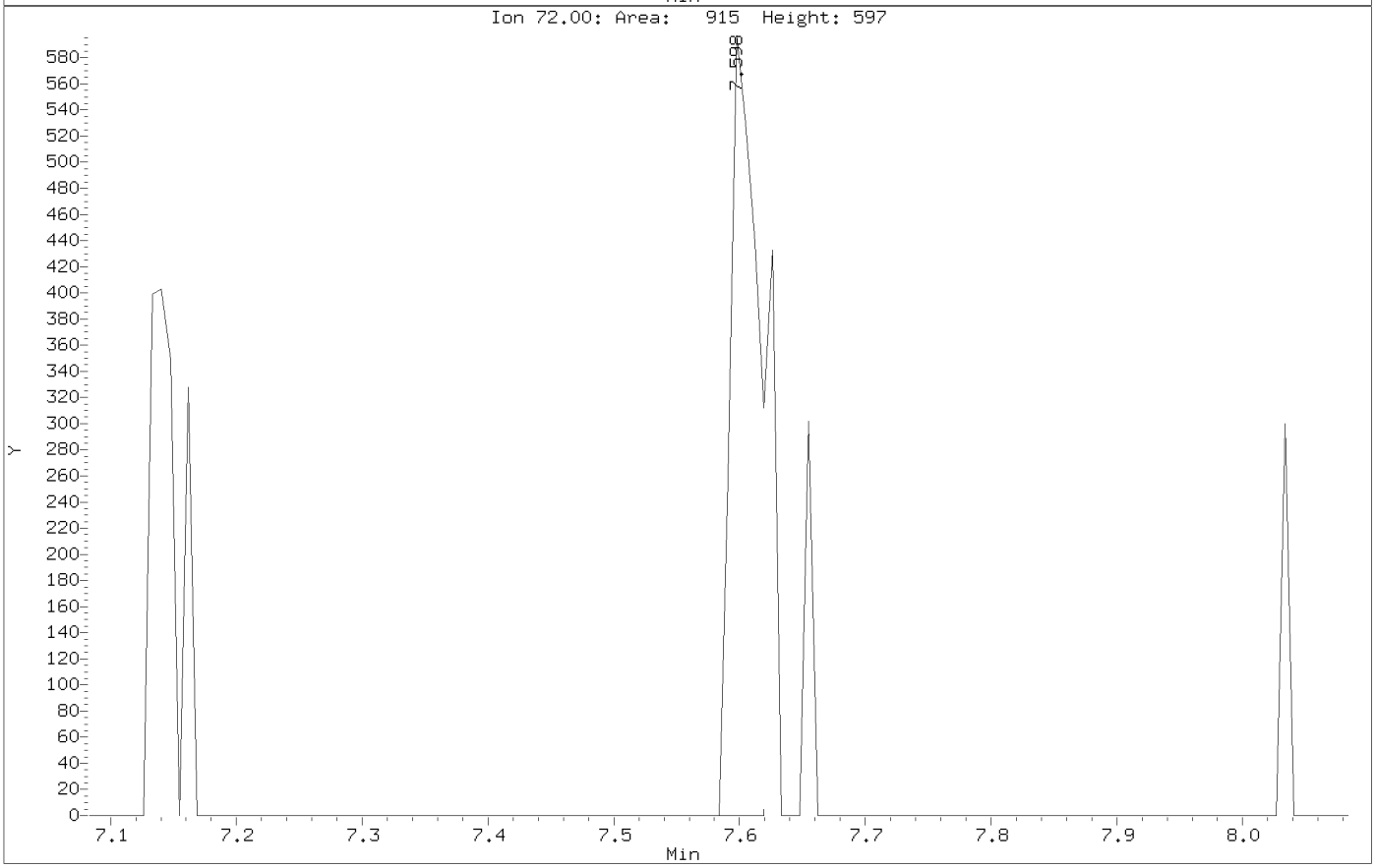
Injection Date: 22-DEC-2014 17:40
Instrument: gcms-c.i
Client Sample ID: 153-121614-918-920

Compound: 2-Butanone
CAS Number: 78-93-3

BEFORE MANUAL INTEGRATION





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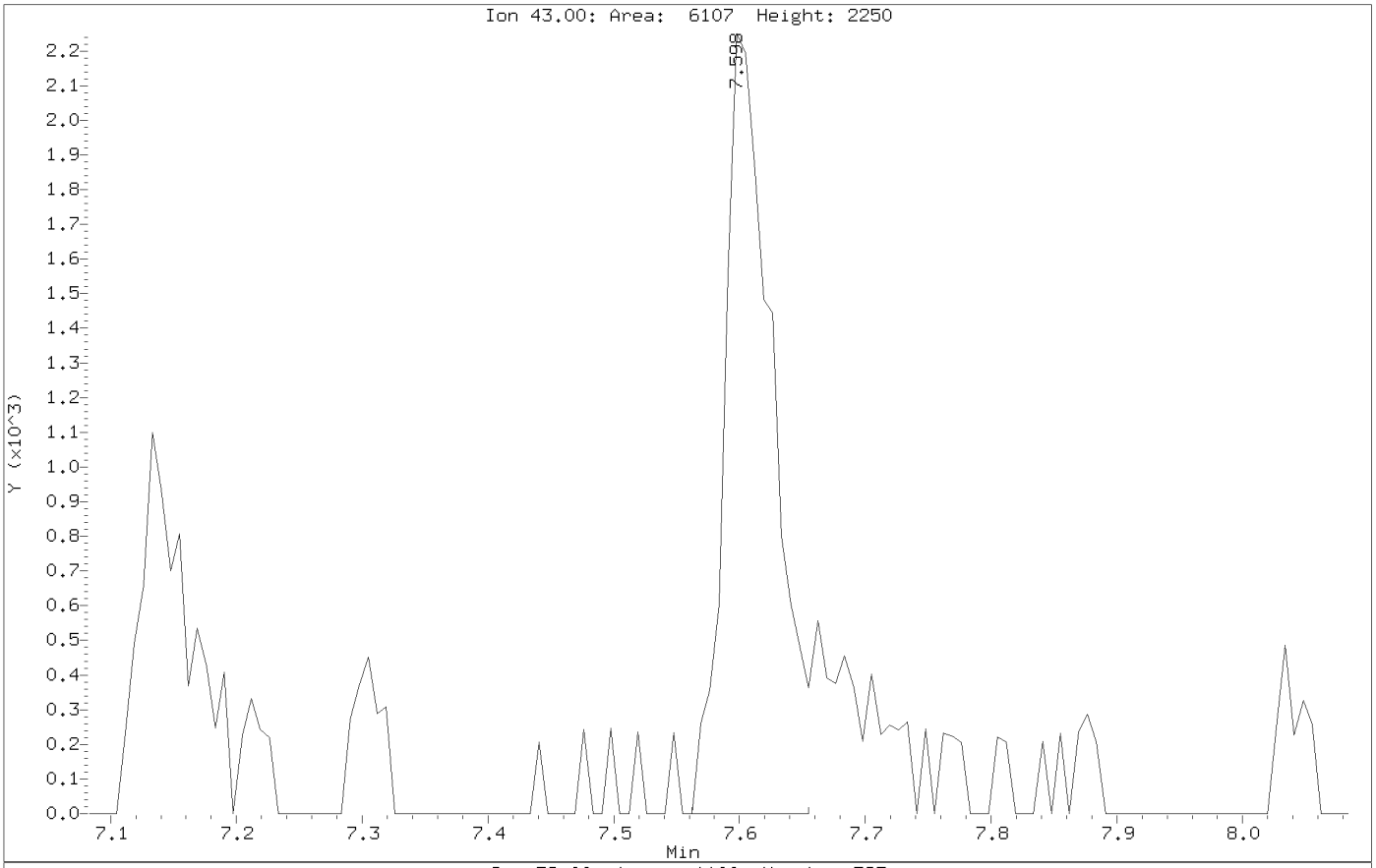
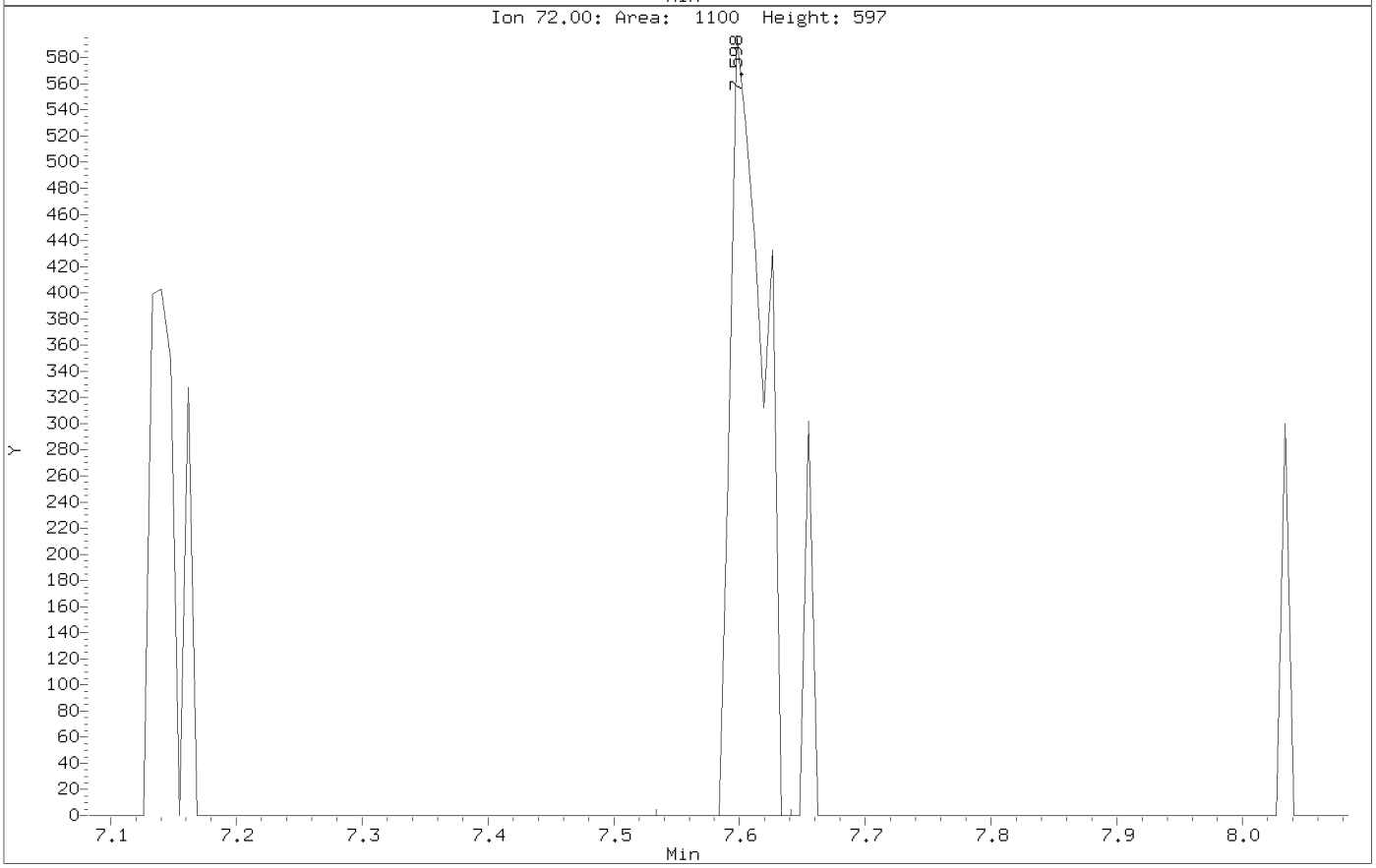
Injection Date: 22-DEC-2014 17:40
Instrument: gcms-c.i
Client Sample ID: 153-121614-918-920

Compound: 2-Butanone
CAS Number: 78-93-3

AFTER MANUAL INTEGRATION





Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-7
Client ID: VPB153-TB-121814
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0675.D

Sample Date: 18-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		5.6	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0715-7
Client ID: VPB153-TB-121814
Project: Navy Clean WE15-03-06 NW
SDG: TH0715
Lab File ID: C0675.D

Sample Date: 18-DEC-14
Received Date: 19-DEC-14
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		104.	%					
Toluene-d8		104.	%					
1,2-Dichloroethane-d4		96.1	%					
Dibromofluoromethane		102.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0675.D
Report Date: 23-Dec-2014 14:28

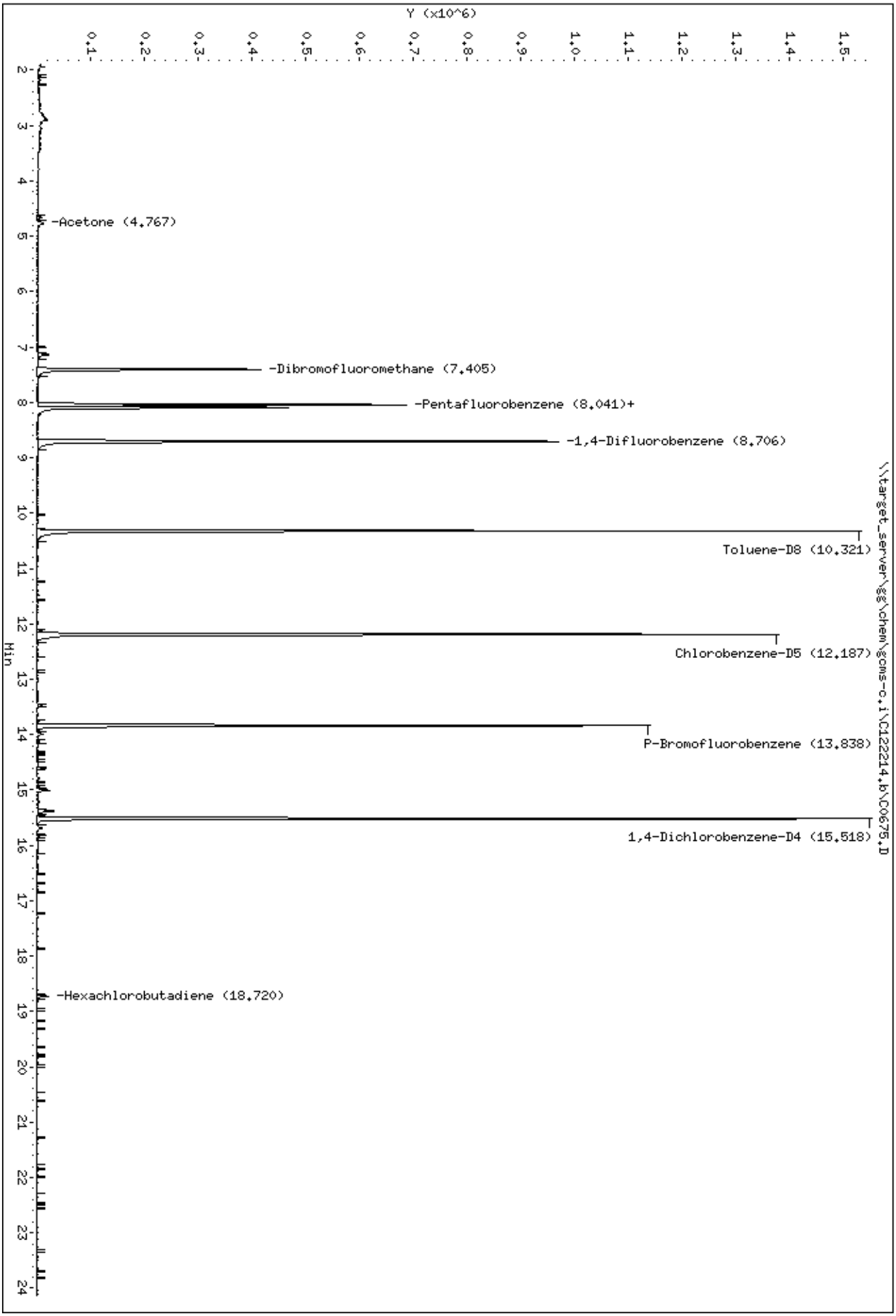
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122214.b\C0675.D
Lab Smp Id: TH0715-7 Client Smp ID: VPB153-TB-121814
Inj Date : 22-DEC-2014 13:26 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : TH0715-7
Misc Info : WG156070,WG154861-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C122214.b\C826A26.m
Meth Date : 23-Dec-2014 14:19 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.767	4.753	(0.593)	12705	5.61003	5.6	
$ 37 Dibromofluoromethane	113	7.404	7.405	(0.921)	257194	51.2548	51.2	
* 42 Pentafluorobenzene	168	8.040	8.041	(1.000)	459833	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	305701	48.0557	48.0	
* 49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	764008	50.0000		
$ 55 Toluene-D8	98	10.321	10.322	(1.186)	915078	52.0078	52.0	
* 66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	796693	50.0000		
$ 76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	395428	52.0841	52.1	
* 91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	444345	50.0000		
98 Hexachlorobutadiene	225	18.727	18.728	(1.207)	5008	1.01587	1.0	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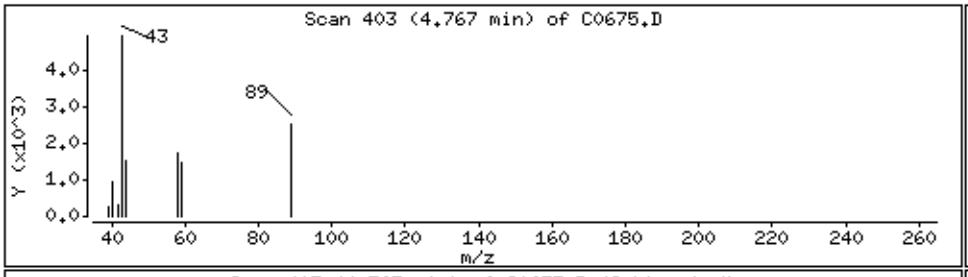
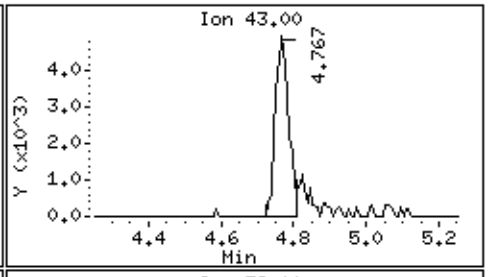
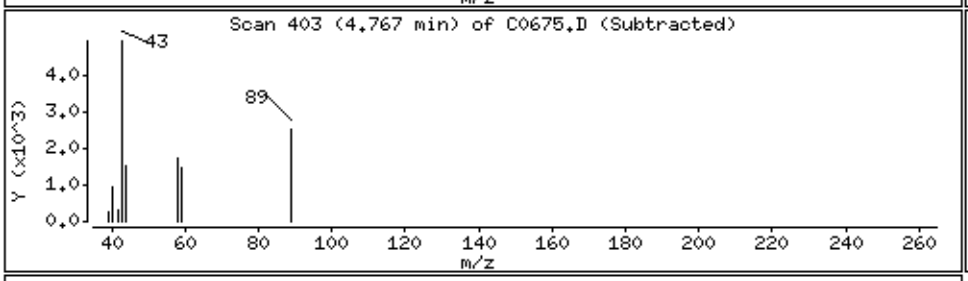
Date : 22-DEC-2014 13:26
Client ID: VPB153-TB-121814
Sample Info: TH0715-7
Instrument: gcms-c.i
Y (x10^6)
Min
-Acetone (4.767)
-Dibromofluoromethane (7.405)
-Pentafluorobenzene (8.041)+
-1,4-Difluorobenzene (8.706)
Toluene-D8 (10.321)
Chlorobenzene-D5 (12.187)
P-Bromofluorobenzene (13.838)
1,4-Dichlorobenzene-D4 (15.518)
-Hexachlorobutadiene (18.720)
\\target_server\gg\chem\gcms-c.i\C122214.b\C0675.D

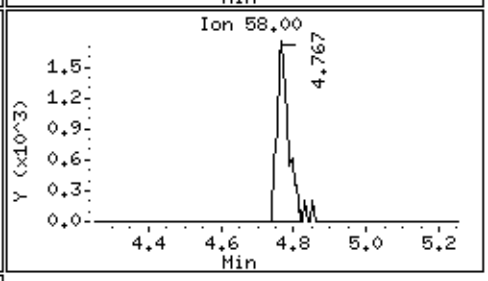
Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0675.D
Date : 22-DEC-2014 13:26
Client ID: VPB153-TB-121814 Instrument: gcms-c.i
Sample Info: TH0715-7

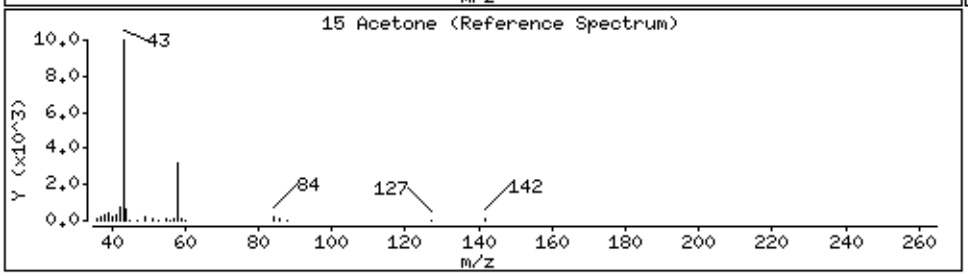
15 Acetone Concentration: 5.6 ug/l



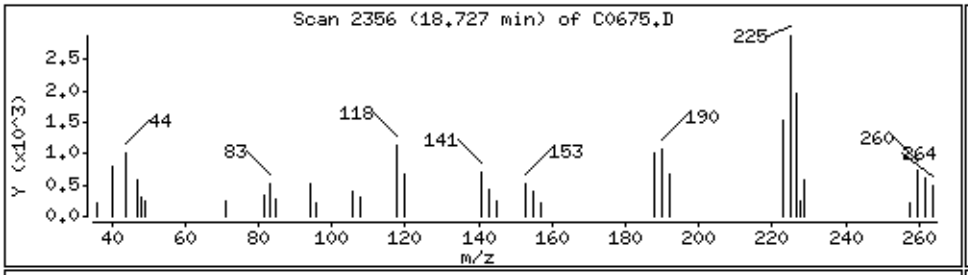


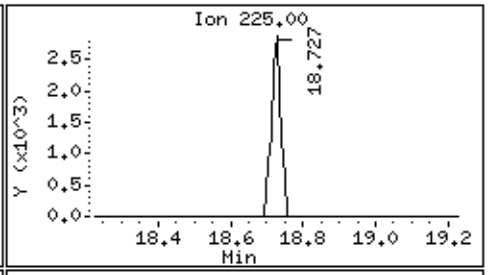


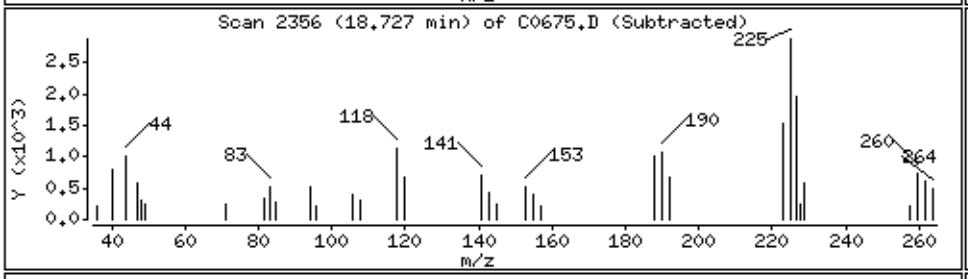


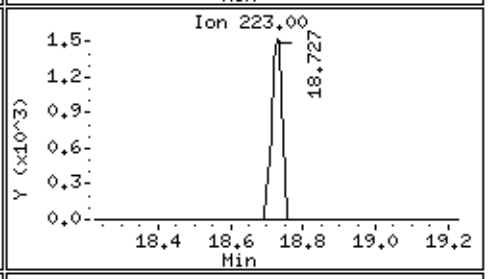


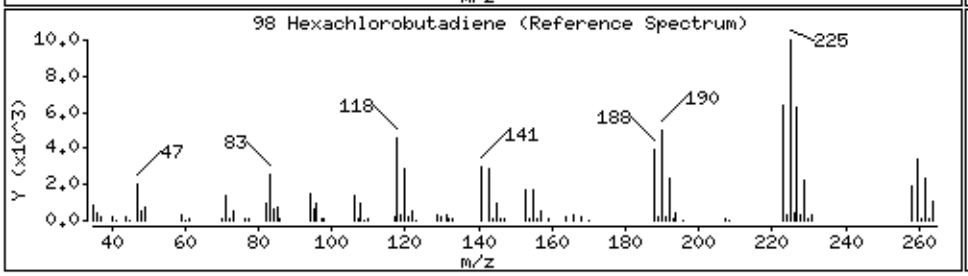
98 Hexachlorobutadiene Concentration: 1.0 ug/l

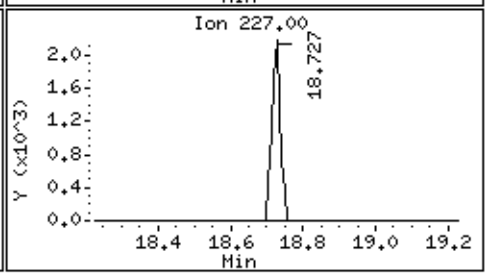












Standards Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** TH0715
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-C
Lab File IDs : C0220.D C0213.D C0212.D C0223.D C0222.D C0215.D **Column ID:**
Calibration Date(s): 26-NOV-14 08:07
26-NOV-14 14:53

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv					Max	
	1.0000	5.0000	20.0000	50.0000	100.0000	200.0000	New	b	m1	m2	%RSD	%RSD	
Dichlorodifluoromethane	0.65951	0.67716	0.73153	0.64390	0.62712	0.61286	AVG		0.65868		6.42782	15.00000	O
Chloromethane	12309	45035	175551	441595	826979	1618755	LNR	-0.04210	0.79732		0.99920	0.99000	O
Vinyl chloride	0.76073	0.73828	0.75728	0.68617	0.68349	0.62764	AVG		0.70893		7.37178	15.00000	O
Bromomethane	3768	11563	44815	156928	309589	622524	LNR	0.01678	0.30920		0.99946	0.99000	O
Chloroethane	4585	19633	74375	150237	300052	565228	LNR	-0.06920	0.27851		0.99685	0.99000	O
Trichlorofluoromethane	1.21939	1.19896	1.23262	1.04252	1.20544	+++++	AVG		1.17979		6.59659	15.00000	O
1,1-Dichloroethene	0.46580	0.48131	0.45631	0.44753	0.47863	0.48332	AVG		0.46882		3.13646	15.00000	O
Carbon Disulfide	19476	61915	267284	724568	1470539	2825501	LNR	-0.01559	1.40419		0.99887	0.99000	O
Freon-113	0.36853	0.38029	0.33202	0.31453	0.32960	0.33352	AVG		0.34308		7.42294	15.00000	O
Methylene Chloride	8163	26406	113262	302119	596985	1180470	LNR	-0.01383	0.58346		0.99961	0.99000	O
Acetone	0.25329	0.25076	0.25593	0.24927	0.22925	0.23901	AVG		0.24625		4.11769	15.00000	O
trans-1,2-Dichloroethene	0.64980	0.52689	0.53399	0.50616	0.54598	0.50260	AVG		0.54424		9.97513	15.00000	O
Methyl tert-butyl ether	1.17875	1.21893	1.35360	1.33108	1.30928	1.28626	AVG		1.27965		5.28907	15.00000	O
1,1-Dichloroethane	1.02195	1.04840	1.04087	0.99281	1.03826	0.94331	AVG		1.01427		3.94439	15.00000	O
cis-1,2-Dichloroethene	0.65631	0.63274	0.59725	0.58459	0.61965	0.57210	AVG		0.61044		5.17956	15.00000	O
1,2-Dichloroethylene (total	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
Chloroform	1.04222	1.09897	1.07023	0.98030	1.03414	0.94292	AVG		1.02813		5.60001	15.00000	O
Carbon Tetrachloride	0.35222	0.41517	0.43477	0.43887	0.45717	0.44822	AVG		0.42440		8.97394	15.00000	O
1,1,1-Trichloroethane	0.77460	0.88134	0.90280	0.85832	0.91988	0.87805	AVG		0.86916		5.86457	15.00000	O
2-Butanone	0.26884	0.35186	0.36930	0.36431	0.34872	0.34720	AVG		0.34170		10.7642(	15.00000	O
Benzene	1.38452	1.36786	1.40910	1.36419	1.34519	1.17691	AVG		1.34130		6.21380	15.00000	O
Cyclohexane	0.76948	0.89268	0.95260	0.89933	0.94308	0.90196	AVG		0.89319		7.33104	15.00000	O
1,2-Dichloroethane	0.55225	0.50710	0.48075	0.46305	0.46588	0.45059	AVG		0.48660		7.71438	15.00000	O
Trichloroethene	0.32920	0.35066	0.35195	0.34474	0.35755	0.33481	AVG		0.34482		3.15299	15.00000	O
1,2-Dichloropropane	0.33036	0.33542	0.33807	0.34771	0.35441	0.33454	AVG		0.34009		2.67723	15.00000	O
Bromodichloromethane	0.39717	0.42514	0.48041	0.48307	0.49666	0.48322	AVG		0.46095		8.67226	15.00000	O
cis-1,3-dichloropropene	0.44925	0.46452	0.56488	0.58715	0.58022	0.56899	AVG		0.53583		11.54351	15.00000	O
Toluene	0.75370	0.83814	0.88257	0.87302	0.89288	0.80448	AVG		0.84080		6.38463	15.00000	O
4-methyl-2-pentanone	21050	133349	630356	1700805	3021946	+++++	LNR	-0.08459	0.37932		0.99720	0.99000	O
Tetrachloroethene	0.32457	0.29337	0.29010	0.31359	0.32359	0.31822	AVG		0.31057		4.87933	15.00000	O
trans-1,3-Dichloropropene	0.41131	0.40591	0.47805	0.49725	0.50282	0.51819	AVG		0.46892		10.3389[illegible]	15.00000	O
1,1,2-Trichloroethane	0.25996	0.27742	0.28496	0.27587	0.27949	0.28321	AVG		0.27682		3.23057	15.00000	O
Dibromochloromethane	0.28129	0.29955	0.35295	0.37547	0.37393	0.37560	AVG		0.34313		12.2735[illegible]	15.00000	O
1,2-Dibromoethane	0.35872	0.30327	0.33717	0.35430	0.35027	0.36056	AVG		0.34405		6.29040	15.00000	O
2-Hexanone	14278	95385	478384	1313827	2401338	+++++	LNR	-0.09832	0.28378		0.99549	0.99000	O
Chlorobenzene	1.13107	1.09752	1.03714	1.01762	0.98552	0.86216	AVG		1.02184		9.25583	15.00000	O
Ethylbenzene	0.52179	0.53017	0.53905	0.53848	0.54361	0.50666	AVG		0.52996		2.60275	15.00000	O

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** TH0715
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-C
Lab File IDs : C0220.D C0213.D C0212.D **Column ID:**
C0223.D C0222.D C0215.D **Calibration Date(s):** 26-NOV-14 08:07
26-NOV-14 14:53

Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
m+p-Xylenes	0.59297	0.68349	0.69404	0.69116	0.67275	0.57451	AVG		0.65149		8.18311	15.00000	O
o-Xylene	0.51230	0.63033	0.67380	0.70064	0.69299	0.62765	AVG		0.63962		10.87237	15.00000	O
Styrene	0.71947	0.93875	1.05697	1.09541	1.08100	0.93365	AVG		0.97088		14.61511	15.00000	O
Bromoform	2752	13113	68155	219440	454828	1011055	LNR	0.03585	0.27660		0.99943	0.99000	O
Isopropylbenzene	2.67148	3.10400	3.31323	3.14628	3.09134	2.61016	AVG		2.98942		9.43650	15.00000	O
1,1,2,2-Tetrachloroethane	0.98329	1.00135	0.98849	0.93659	0.90843	0.87789	AVG		0.94934		5.23132	15.00000	O
1,3-Dichlorobenzene	1.83952	1.67624	1.63588	1.62136	1.61373	1.48319	AVG		1.64499		7.01671	15.00000	O
1,4-Dichlorobenzene	2.09830	1.68589	1.64215	1.58167	1.56087	1.45521	AVG		1.67068		13.39244	15.00000	O
1,2-Dichlorobenzene	1.53111	1.49494	1.52735	1.49538	1.48517	1.39182	AVG		1.48763		3.39671	15.00000	O
1,2-Dibromo-3-Chloropropane	879	5400	26315	77856	159508	354875	LNR	0.04780	0.18538		0.99798	0.99000	O
1,2,4-Trichlorobenzene	0.94335	0.77695	0.86858	0.89412	0.87729	0.84728	AVG		0.86793		6.34517	15.00000	O
Methyl Acetate	0.64681	0.57028	0.57971	0.57035	0.60650	0.62166	AVG		0.59922		5.21014	15.00000	O
Methylcyclohexane	0.80574	0.92409	1.00486	1.01513	1.03276	1.03476	AVG		0.96956		9.27932	15.00000	O
Dibromofluoromethane	0.51455	0.54224	0.53831	0.55171	0.57792	0.54903	AVG		0.54563		3.77579	15.00000	
1,2-Dichloroethane-D4	0.80692	0.70146	0.66923	0.64080	0.68008	0.65176	AVG		0.69171		8.72147	15.00000	
Toluene-D8	1.05416	1.14721	1.20748	1.23741	1.21573	1.04698	AVG		1.15149		7.27174	15.00000	
P-Bromofluorobenzene	0.44127	0.44694	0.48854	0.53129	0.55179	0.52133	AVG		0.49686		9.20220	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

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Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG154861-7
Level: LOW
Data Type: MS DATA
SpikeList File: IND_CHECK4.1.spk
Sublist File: SW8260APPIX-S.sub
Method File: \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Misc Info: WG154861,WG154861-4,TH0145-1

Client SDG: SDGa02236
Fraction: VOA
Client Smp ID: WG154861-LCS
Operator: DJP
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	58.0	115.99	80-120
	2 Chloromethane	50.0	53.2	106.34	80-120
	3 Vinyl chloride	50.0	52.3	104.68	80-120
	4 Bromomethane	50.0	50.0	99.90	80-120
	5 Chloroethane	50.0	44.0	87.96	80-120
	6 Trichlorofluoromet	50.0	43.8	87.61	80-120
	7 Diethyl Ether	50.0	46.0	91.92	80-120
	8 Tertiary-butyl alc	250	226	90.34	80-120
	9 1,1-Dichloroethene	50.0	50.3	100.53	80-120
	10 Carbon Disulfide	50.0	63.2	126.32*	80-120
	11 Freon-113	50.0	46.2	92.37	80-120
	12 Iodomethane	50.0	55.5	110.93	80-120
	13 Acrolein	250	245	97.89	80-120
	14 Methylene Chloride	50.0	51.0	101.97	80-120
	15 Acetone	50.0	51.6	103.16	80-120
	16 Isobutyl Alcohol	1000	887	88.71	80-120
	17 trans-1,2-Dichloro	50.0	47.8	95.65	80-120
	18 Allyl Chloride	50.0	48.4	96.87	80-120
	19 Methyl tert-butyl	100	108	108.28	80-120
	20 Acetonitrile	500	480	95.99	80-120
	21 Di-isopropyl ether	50.0	51.0	102.05	80-120
	22 Chloroprene	50.0	50.6	101.22	80-120
	23 Propionitrile	500	460	92.03	80-120
	24 Methacrylonitrile	500	466	93.10	80-120
	25 1,1-Dichloroethane	50.0	51.5	103.07	80-120
	26 Acrylonitrile	250	236	94.48	80-120
	27 Ethyl tertiary-but	50.0	52.3	104.60	80-120
	28 Vinyl Acetate	50.0	56.6	113.30	80-120
	29 cis-1,2-Dichloroet	50.0	48.8	97.61	80-120
M	30 1,2-Dichloroethyle	100	96.6	96.63	80-120
	31 Methyl Methacrylat	50.0	47.1	94.16	80-120
	32 2,2-Dichloropropan	50.0	50.1	100.17	80-120
	33 Bromochloromethane	50.0	45.5	91.04	80-120
	34 Chloroform	50.0	48.6	97.28	80-120
	35 Carbon Tetrachlori	50.0	55.4	110.79	80-120
	36 Tetrahydrofuran	50.0	48.7	97.49	80-120
	38 1,1,1-Trichloroeth	50.0	50.1	100.29	80-120
	39 1,1-Dichloropropen	50.0	54.6	109.28	80-120
	40 2-Butanone	50.0	50.3	100.68	80-120
	41 Benzene	50.0	51.8	103.60	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	51.7	103.45	80-120
	44	Ethyl Methacrylate	50.0	47.7	95.33	80-120
	46	Tertiary-amyl meth	50.0	52.8	105.58	80-120
	47	1,2-Dichloroethane	50.0	48.6	97.13	80-120
	48	Trichloroethene	50.0	50.2	100.35	80-120
	50	Dibromomethane	50.0	48.7	97.47	80-120
	51	1,2-Dichloropropan	50.0	52.3	104.62	80-120
	52	Bromodichlorometha	50.0	54.2	108.43	80-120
	53	cis-1,3-dichloropr	50.0	52.0	104.10	80-120
	54	1,4-Dioxane	1000	968	96.76	80-120
	56	2-Chloroethylvinyl	50.0	47.2	94.41	80-120
	57	Toluene	50.0	52.6	105.28	80-120
	58	4-methyl-2-pentano	50.0	50.6	101.23	80-120
	59	Tetrachloroethene	50.0	50.8	101.59	80-120
	60	trans-1,3-Dichloro	50.0	54.6	109.28	80-120
	61	1,1,2-Trichloroeth	50.0	50.4	100.84	80-120
	62	Dibromochlorometha	50.0	55.5	111.05	80-120
	63	1,3-Dichloropropan	50.0	54.2	108.34	80-120
	64	1,2-Dibromoethane	50.0	52.1	104.24	80-120
	65	2-Hexanone	50.0	48.9	97.74	80-120
	67	Chlorobenzene	50.0	49.3	98.59	80-120
	152	1-Chlorohexane	50.0	51.0	101.91	80-120
	68	Ethylbenzene	50.0	52.0	103.99	80-120
	69	1,1,1,2-Tetrachlor	50.0	54.1	108.16	80-120
M	70	Xylenes (total)	150	159	106.09	80-120
	71	m+p-Xylenes	100	106	106.05	80-120
	72	o-Xylene	50.0	53.1	106.16	80-120
	73	Styrene	50.0	57.6	115.29	80-120
	74	Bromoform	50.0	49.0	98.03	80-120
	75	Isopropylbenzene	50.0	51.9	103.80	80-120
	77	cis-1,4-Dichloro-2	50.0	47.9	95.82	80-120
	78	trans-1,4-Dichloro	50.0	47.1	94.16	80-120
	79	Bromobenzene	50.0	50.8	101.60	80-120
	80	N-Propylbenzene	50.0	50.8	101.63	80-120
	81	1,1,2,2-Tetrachlor	50.0	49.7	99.49	80-120
	82	1,3,5-Trimethylben	50.0	52.1	104.24	80-120
	83	2-Chlorotoluene	50.0	49.5	99.07	80-120
	84	1,2,3-Trichloropro	50.0	49.7	99.34	80-120
	85	4-Chlorotoluene	50.0	50.1	100.14	80-120
	86	tert-Butylbenzene	50.0	51.2	102.49	80-120
	87	Pentachloroethane	50.0	49.2	98.47	80-120
	88	1,2,4-Trimethylben	50.0	54.2	108.42	80-120
	89	P-Isopropyltoluene	50.0	56.1	112.17	80-120
	90	1,3-Dichlorobenzen	50.0	48.3	96.61	80-120
	92	1,4-Dichlorobenzen	50.0	47.8	95.57	80-120
	93	N-Butylbenzene	50.0	54.4	108.75	80-120
	94	sec-Butylbenzene	50.0	51.0	102.12	80-120
	95	1,2-Dichlorobenzen	50.0	49.4	98.72	80-120
	96	1,2-Dibromo-3-Chlo	50.0	48.3	96.56	80-120
	97	1,3,5-Trichloroben	50.0	48.4	96.91	80-120
	98	Hexachlorobutadien	50.0	48.9	97.88	80-120
	99	1,2,4-Trichloroben	50.0	52.9	105.84	80-120
	100	1,2,3-Trimethylben	50.0	50.2	100.42	80-120
	101	Naphthalene	50.0	54.5	108.98	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	52.9	105.83	80-120
103 Methyl Acetate	50.0	47.2	94.39	80-120
104 Methylcyclohexane	50.0	50.4	100.76	80-120
M 153 Total Alkylbenzene	350	370	105.69	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	47.2	94.44	68-128
$ 45 1,2-Dichloroethane	50.0	44.5	89.04	67-135
$ 55 Toluene-D8	50.0	52.1	104.16	65-128
$ 76 P-Bromofluorobenze	50.0	51.4	102.79	56-133

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0212.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0212.D
Lab Smp Id: WG154861-3 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 08:07
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-3
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 08:07 Cal File: C0212.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.986	1.994	(0.247)	132334	20.0000	22.2	
2 Chloromethane	50	2.229	2.230	(0.277)	175551	20.0000	22.2	
3 Vinyl chloride	62	2.329	2.330	(0.290)	136992	20.0000	21.4	
4 Bromomethane	94	2.729	2.730	(0.339)	44815	20.0000	16.9	
5 Chloroethane	64	2.879	2.880	(0.358)	74375	20.0000	26.1	
6 Trichlorofluoromethane	101	3.058	3.059	(0.380)	222981	20.0000	20.9	
7 Diethyl Ether	59	3.494	3.488	(0.435)	97957	20.0000	20.5	
8 Tertiary-butyl alcohol	59	5.359	5.347	(0.667)	43053	100.000	90.1	
9 1,1-Dichloroethene	96	3.751	3.753	(0.467)	82547	20.0000	19.5	
10 Carbon Disulfide	76	3.787	3.788	(0.471)	267284	20.0000	20.3	
11 Freon-113	151	3.808	3.817	(0.474)	60063	20.0000	19.4	
12 Iodomethane	142	3.951	3.967	(0.491)	48193	20.0000	18.7	
13 Acrolein	56	4.266	4.274	(0.531)	107175	100.000	97.5	
14 Methylene Chloride	84	4.652	4.653	(0.579)	113262	20.0000	20.8	
15 Acetone	43	4.752	4.753	(0.591)	231493	100.000	104	
16 Isobutyl Alcohol	43	8.254	8.256	(1.027)	94309	400.000	354	
17 trans-1,2-Dichloroethene	96	4.916	4.925	(0.612)	96598	20.0000	19.6	
18 Allyl Chloride	41	4.473	4.482	(0.556)	172721	20.0000	20.8	
19 Methyl tert-butyl ether	73	5.131	5.132	(0.638)	489733	40.0000	42.3	
20 Acetonitrile	39	5.545	5.540	(0.690)	40277	200.000	184	
21 Di-isopropyl ether	45	5.788	5.790	(0.720)	347263	20.0000	21.0	
22 Chloroprene	53	5.910	5.918	(0.735)	165285	20.0000	20.8	
23 Propionitrile	54	7.969	7.970	(0.991)	234751	200.000	211	
24 Methacrylonitrile	41	7.990	7.991	(0.994)	892918	200.000	200	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0212.D
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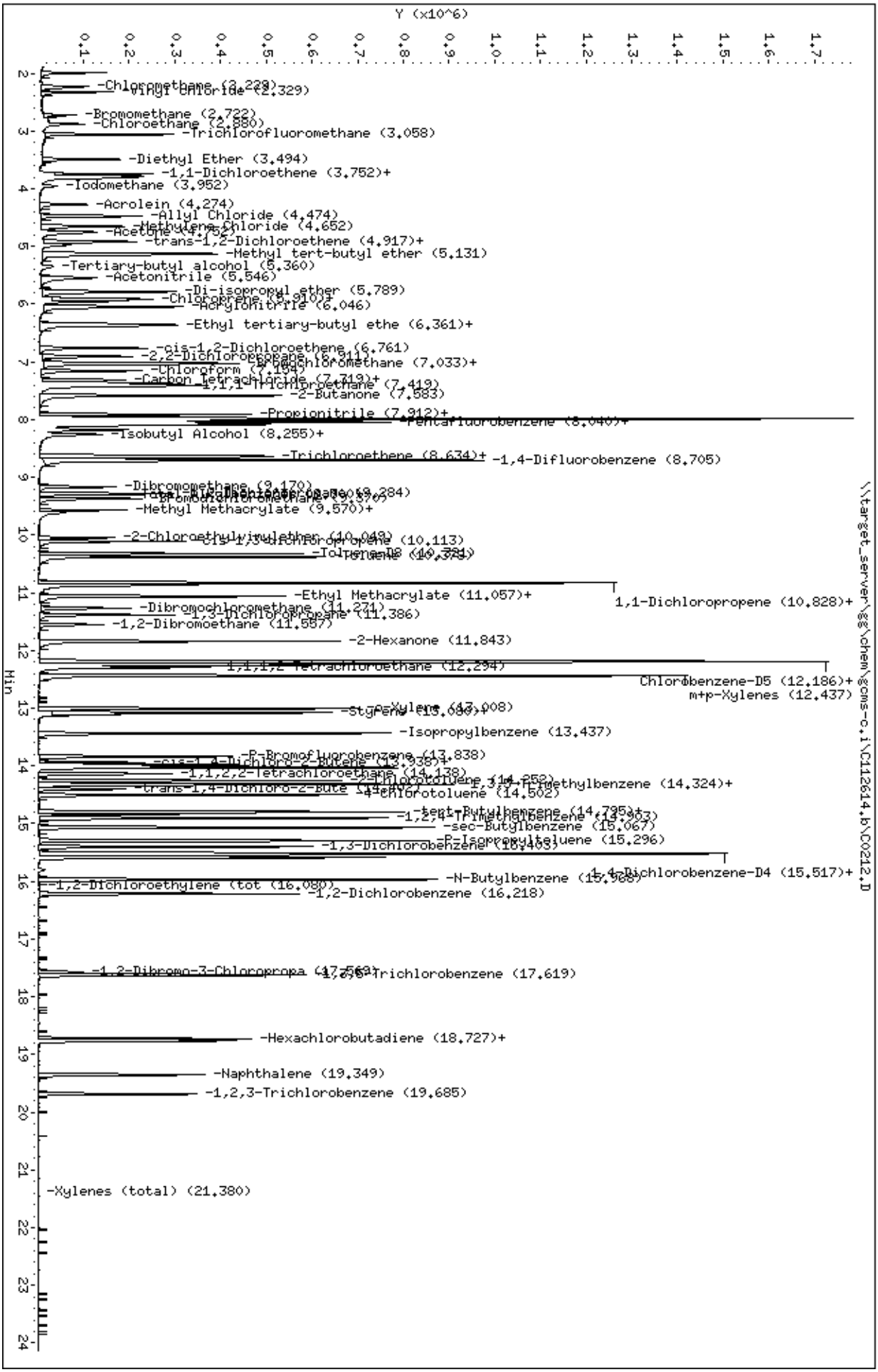
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.946	5.954	(0.740)	188293	20.0000	20.5	
	26 Acrylonitrile	52	6.046	6.047	(0.752)	239819	100.000	102	
	27 Ethyl tertiary-butyl ether	59	6.353	6.354	(0.790)	275256	20.0000	20.5	
	28 Vinyl Acetate	43	6.375	6.376	(0.732)	268465	20.0000	21.5	
	29 cis-1,2-Dichloroethene	96	6.761	6.762	(0.841)	108042	20.0000	19.6	
	31 Methyl Methacrylate	41	9.570	9.571	(1.099)	95506	20.0000	18.3	
	32 2,2-Dichloropropane	77	6.911	6.912	(0.860)	137315	20.0000	20.9	
	33 Bromochloromethane	128	7.039	7.041	(0.876)	50112	20.0000	20.2	
	34 Chloroform	83	7.161	7.162	(0.891)	193604	20.0000	20.8	
	35 Carbon Tetrachloride	117	7.318	7.319	(0.841)	127500	20.0000	20.5	
	36 Tetrahydrofuran	42	7.361	7.362	(0.916)	206782	100.000	107	
$	37 Dibromofluoromethane	113	7.404	7.405	(0.921)	97381	20.0000	19.7	
	38 1,1,1-Trichloroethane	97	7.418	7.419	(0.923)	163316	20.0000	20.8	
	39 1,1-Dichloropropene	75	10.871	10.872	(1.249)	140194	20.0000	20.4	
	40 2-Butanone	43	7.583	7.584	(0.943)	334032	100.000	108	
	41 Benzene	78	7.911	7.913	(0.909)	413233	20.0000	21.0	
*	42 Pentafluorobenzene	168	8.040	8.041	(1.000)	452250	50.0000		
	43 Cyclohexane	56	7.018	7.026	(0.873)	172326	20.0000	21.3	
	44 Ethyl Methacrylate	69	11.064	11.058	(1.271)	131954	20.0000	19.4	
$	45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	121063	20.0000	19.4	
	46 Tertiary-amyl methyl ether	73	8.083	8.084	(1.005)	228880	20.0000	20.2	
	47 1,2-Dichloroethane	62	8.176	8.177	(0.939)	140985	20.0000	19.8	
	48 Trichloroethene	95	8.655	8.656	(0.994)	103213	20.0000	20.4	
*	49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	733153	50.0000		
	50 Dibromomethane	93	9.169	9.164	(1.053)	63695	20.0000	19.0	
	51 1,2-Dichloropropane	63	9.284	9.285	(1.067)	99144	20.0000	19.9	
	52 Bromodichloromethane	83	9.370	9.371	(1.076)	140885	20.0000	20.8	
	53 cis-1,3-dichloropropene	75	10.113	10.114	(1.162)	165656	20.0000	21.1	
	54 1,4-Dioxane	88	9.613	9.614	(1.104)	38416	400.000	398	
$	55 Toluene-D8	98	10.320	10.322	(1.186)	354106	20.0000	21.0	
	56 2-Chloroethylvinylether	63	10.049	10.050	(1.154)	64592	20.0000	19.2	
	57 Toluene	92	10.377	10.379	(1.192)	258824	20.0000	21.0	
	58 4-methyl-2-pentanone	43	10.828	10.829	(1.244)	630356	100.000	109	
	59 Tetrachloroethene	164	10.821	10.822	(0.887)	84809	20.0000	18.7	
	60 trans-1,3-Dichloropropene	75	10.871	10.872	(1.249)	140194	20.0000	20.4	
	61 1,1,2-Trichloroethane	83	11.056	11.058	(1.270)	83568	20.0000	20.6	
	62 Dibromochloromethane	129	11.271	11.272	(0.924)	103183	20.0000	20.6	
	63 1,3-Dichloropropane	76	11.385	11.387	(0.934)	169045	20.0000	21.3	
	64 1,2-Dibromoethane	107	11.557	11.551	(1.328)	98879	20.0000	19.6	
	65 2-Hexanone	43	11.843	11.837	(0.971)	478384	100.000	110	
*	66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	730870	50.0000		
	67 Chlorobenzene	112	12.214	12.216	(1.002)	303206	20.0000	20.3	
	152 1-Chlorohexane	91	12.186	12.187	(0.999)	162642	20.0000	19.9	
	68 Ethylbenzene	106	12.243	12.251	(1.004)	157590	20.0000	20.3	
	69 1,1,1,2-Tetrachloroethane	131	12.293	12.294	(1.008)	101774	20.0000	20.6	
	71 m+p-Xylenes	106	12.436	12.437	(1.020)	405804	40.0000	42.6	
	72 o-Xylene	106	13.008	13.009	(1.067)	196985	20.0000	21.1	
	73 Styrene	104	13.079	13.081	(1.073)	309003	20.0000	21.8	
	74 Bromoform	173	13.115	13.116	(1.076)	68155	20.0000	18.6	
	75 Isopropylbenzene	105	13.437	13.438	(0.866)	533868	20.0000	22.2	
$	76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	143271	20.0000	19.7	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.938	(0.898)	56289	20.0000	20.9	
	78 trans-1,4-Dichloro-2-Butene	53	14.402	14.403	(0.928)	45429	20.0000	20.4	
	79 Bromobenzene	156	13.987	13.988	(0.901)	127842	20.0000	19.7	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0212.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	80 N-Propylbenzene	91	14.030	14.031	(0.904)	677572	20.0000	22.5	
	81 1,1,2,2-Tetrachloroethane	83	14.137	14.139	(0.911)	159277	20.0000	20.8	
	82 1,3,5-Trimethylbenzene	105	14.316	14.317	(0.923)	457198	20.0000	21.9	
	83 2-Chlorotoluene	91	14.252	14.253	(0.918)	400549	20.0000	21.5	
	84 1,2,3-Trichloropropane	75	14.330	14.332	(0.924)	126025	20.0000	20.8	
	85 4-Chlorotoluene	91	14.502	14.503	(0.935)	408199	20.0000	21.1	
	86 tert-Butylbenzene	119	14.795	14.796	(0.953)	477117	20.0000	21.5	
	87 Pentachloroethane	117	14.823	14.825	(0.955)	101646	20.0000	20.5	
	88 1,2,4-Trimethylbenzene	105	14.902	14.903	(0.960)	451957	20.0000	22.2	
	89 P-Isopropyltoluene	119	15.295	15.297	(0.986)	521927	20.0000	23.0	
	90 1,3-Dichlorobenzene	146	15.402	15.404	(0.993)	263594	20.0000	19.9	
*	91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	402831	50.0000		
	92 1,4-Dichlorobenzene	146	15.545	15.547	(1.002)	264603	20.0000	19.6	
	93 N-Butylbenzene	91	15.967	15.968	(1.029)	541675	20.0000	24.2	
	94 sec-Butylbenzene	105	15.066	15.068	(0.971)	659485	20.0000	22.8	
	95 1,2-Dichlorobenzene	146	16.217	16.219	(1.045)	246105	20.0000	20.5	
	96 1,2-Dibromo-3-Chloropropane	75	17.568	17.570	(1.132)	26315	20.0000	20.0	
	97 1,3,5-Trichlorobenzene	180	17.625	17.627	(1.136)	204773	20.0000	20.5	
	98 Hexachlorobutadiene	225	18.726	18.728	(1.207)	93691	20.0000	21.0	
	99 1,2,4-Trichlorobenzene	180	18.762	18.763	(1.209)	139956	20.0000	20.0	
	100 1,2,3-Trimethylbenzene	105	15.588	15.590	(1.005)	473614	20.0000	21.6	
	101 Naphthalene	128	19.355	19.349	(1.247)	315955	20.0000	19.2	
	102 1,2,3-Trichlorobenzene	180	19.684	19.685	(1.269)	116027	20.0000	20.9	
	103 Methyl Acetate	43	4.974	4.975	(0.619)	104869	20.0000	19.3	
	104 Methylcyclohexane	83	8.626	8.635	(1.073)	181780	20.0000	20.7	


Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0212.D
Date : 26-NOV-2014 08:07
Client ID: Initial Calibration
Sample Info: WG154861-3
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.229)
-Vinyl Chloride (2.329)
-Bromomethane (2.722)
-Chloroethane (2.880)
-Trichlorofluoromethane (3.058)
-Diethyl Ether (3.494)
-1,1-Dichloroethene (3.752)+
-Iodomethane (3.952)
-Acrolein (4.274)
-Allyl Chloride (4.474)
-Methylene Chloride (4.652)
-Acetone (4.762)
-trans-1,2-Dichloroethene (4.917)+
-Methyl tert-butyl ether (5.131)
-Tertiary-butyl alcohol (5.360)
-Acetonitrile (5.546)
-Di-isopropyl ether (5.789)
-Chloroprene (6.010)+
-Acrylonitrile (6.046)
-Ethyl tertiary-butyl ethe (6.361)+
-cis-1,2-Dichloroethene (6.761)
-2,2-Dichloropropane (6.911)
-Bromochloromethane (7.033)+
-Chloroform (7.194)
-Carbon tetrachloride (7.319)+
-1,1,1-Trichloroethane (7.419)
-2-Butanone (7.583)
-Propionitrile (7.912)+
-Pentafluorobenzene (8.040)+
-Isobutyl Alcohol (8.255)+
-Trichloroethene (8.634)+
-1,4-Difluorobenzene (8.705)
-Dibromomethane (9.170)
-Methyl Methacrylate (9.570)+
-2-Chloroethylvinylether (10.049)
-Toluene (10.373)
-Ethyl Methacrylate (11.057)+
1,1-Dichloropropene (10.828)+
-Dibromochloromethane (11.271)
-1,3-Dichloropropane (11.386)
-1,2-Dibromoethane (11.587)
-2-Hexanone (11.843)
-1,1,1,2-Tetrachloroethane (12.294)
Chlorobenzene-D5 (12.186)+
m+p-Xylenes (12.437)
-Styrene (13.080)+
-Isopropylbenzene (13.437)
-P-Bromofluorobenzene (13.838)
-1,1,2,2-Tetrachloroethane (14.138)
-2-Chlorotoluene (14.252)
-1,3,5-Trimethylbenzene (14.324)+
-trans-1,4-Dichloro-2-Bute
-4-Chlorotoluene (14.502)
-tert-Butylbenzene (14.795)
-1,2,4-Trimethylbenzene (14.903)
-sec-Butylbenzene (15.067)
-P-Isopropyltoluene (15.296)
-1,3-Dichlorobenzene (15.403)
1,4-Dichlorobenzene-D4 (15.517)+
-N-Butylbenzene (15.968)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.218)
-1,2-Dibromo-3-Chloropropa (17.569)
-1,2,4-Trichlorobenzene (17.619)
-Hexachlorobutadiene (18.727)+
-Naphthalene (19.349)
-1,2,3-Trichlorobenzene (19.685)
-Xylenes (total) (21.380)
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Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Lab Smp Id: WG154861-2 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 08:39
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-2
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 08:39 Cal File: C0213.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.989	1.994	(0.247)	29683	5.00000	5.1	
2 Chloromethane	50	2.232	2.230	(0.278)	45035	5.00000	4.3	
3 Vinyl chloride	62	2.325	2.330	(0.289)	32362	5.00000	5.2	
4 Bromomethane	94	2.725	2.730	(0.339)	11563	5.00000	5.1	
5 Chloroethane	64	2.882	2.880	(0.358)	19633	5.00000	4.6	
6 Trichlorofluoromethane	101	3.061	3.059	(0.381)	52556	5.00000	5.1	
7 Diethyl Ether	59	3.490	3.488	(0.434)	24109	5.00000	5.2	
8 Tertiary-butyl alcohol	59	5.363	5.347	(0.667)	10309	25.0000	33.6	
9 1,1-Dichloroethene	96	3.754	3.753	(0.467)	21098	5.00000	5.1	
10 Carbon Disulfide	76	3.783	3.788	(0.470)	61915	5.00000	4.2	
11 Freon-113	151	3.819	3.817	(0.475)	16670	5.00000	5.5	
12 Iodomethane	142	3.955	3.967	(0.492)	10370	5.00000	4.2	
13 Acrolein	56	4.269	4.274	(0.531)	24085	25.0000	22.6	
14 Methylene Chloride	84	4.648	4.653	(0.578)	26406	5.00000	4.5(a)	
15 Acetone	43	4.755	4.753	(0.591)	54959	25.0000	25.4	
16 Isobutyl Alcohol	43	8.258	8.256	(1.027)	20185	100.000	122	
17 trans-1,2-Dichloroethene	96	4.927	4.925	(0.613)	23096	5.00000	4.8	
18 Allyl Chloride	41	4.476	4.482	(0.557)	41436	5.00000	5.2	
19 Methyl tert-butyl ether	73	5.134	5.132	(0.638)	106862	10.0000	9.5	
20 Acetonitrile	39	5.563	5.540	(0.692)	11137	50.0000	62.7	
21 Di-isopropyl ether	45	5.792	5.790	(0.720)	75271	5.00000	4.7	
22 Chloroprene	53	5.920	5.918	(0.736)	35836	5.00000	4.6	
23 Propionitrile	54	7.972	7.970	(0.991)	55550	50.0000	51.5	
24 Methacrylonitrile	41	7.993	7.991	(0.994)	215571	50.0000	48.4	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.949	5.954	(0.740)	45956	5.00000	5.2	
	26 Acrylonitrile	52	6.049	6.047	(0.752)	57511	25.0000	25.1	
	27 Ethyl tertiary-butyl ether	59	6.356	6.354	(0.790)	58028	5.00000	4.5	
	28 Vinyl Acetate	43	6.385	6.376	(0.734)	54215	5.00000	4.4	
	29 cis-1,2-Dichloroethene	96	6.764	6.762	(0.841)	27736	5.00000	5.2	
	31 Methyl Methacrylate	41	9.573	9.571	(1.100)	17279	5.00000	5.0	
	32 2,2-Dichloropropane	77	6.914	6.912	(0.860)	30147	5.00000	4.7	
	33 Bromochloromethane	128	7.042	7.041	(0.876)	11910	5.00000	4.9	
	34 Chloroform	83	7.157	7.162	(0.890)	48173	5.00000	5.3	
	35 Carbon Tetrachloride	117	7.321	7.319	(0.841)	29892	5.00000	4.9	
	36 Tetrahydrofuran	42	7.371	7.362	(0.916)	42098	25.0000	22.4	
$	37 Dibromofluoromethane	113	7.400	7.405	(0.920)	23769	5.00000	5.0	
	38 1,1,1-Trichloroethane	97	7.414	7.419	(0.922)	38633	5.00000	5.1	
	39 1,1-Dichloropropene	75	10.874	10.872	(1.250)	29225	5.00000	4.3	
	40 2-Butanone	43	7.586	7.584	(0.943)	77119	25.0000	25.7	
	41 Benzene	78	7.914	7.913	(0.910)	98485	5.00000	5.1	
*	42 Pentafluorobenzene	168	8.043	8.041	(1.000)	438345	50.0000		
	43 Cyclohexane	56	7.021	7.026	(0.873)	39130	5.00000	5.0	
	44 Ethyl Methacrylate	69	11.067	11.058	(1.272)	20610	5.00000	4.7	
$	45 1,2-Dichloroethane-D4	65	8.093	8.090	(1.006)	30748	5.00000	5.1	
	46 Tertiary-amyl methyl ether	73	8.079	8.084	(1.004)	48540	5.00000	4.4	
	47 1,2-Dichloroethane	62	8.179	8.177	(0.940)	36511	5.00000	5.2	
	48 Trichloroethene	95	8.651	8.656	(0.994)	25247	5.00000	5.1	
*	49 1,4-Difluorobenzene	114	8.701	8.706	(1.000)	719991	50.0000		
	50 Dibromomethane	93	9.165	9.164	(1.053)	14603	5.00000	4.4	
	51 1,2-Dichloropropane	63	9.287	9.285	(1.067)	24150	5.00000	4.9	
	52 Bromodichloromethane	83	9.373	9.371	(1.077)	30610	5.00000	4.6	
	53 cis-1,3-dichloropropene	75	10.109	10.114	(1.162)	33445	5.00000	4.3	
	54 1,4-Dioxane	88	9.616	9.614	(1.105)	12998	100.000	137	
$	55 Toluene-D8	98	10.323	10.322	(1.186)	82598	5.00000	5.0	
	56 2-Chloroethylvinylether	63	10.052	10.050	(1.155)	12267	5.00000	4.6	
	57 Toluene	92	10.381	10.379	(1.193)	60345	5.00000	5.0	
	58 4-methyl-2-pentanone	43	10.831	10.829	(1.245)	133349	25.0000	20.2	
	59 Tetrachloroethene	164	10.824	10.822	(0.888)	20738	5.00000	4.7	
	60 trans-1,3-Dichloropropene	75	10.874	10.872	(1.250)	29225	5.00000	4.3	
	61 1,1,2-Trichloroethane	83	11.060	11.058	(1.271)	19974	5.00000	5.0	
	62 Dibromochloromethane	129	11.274	11.272	(0.925)	21175	5.00000	4.4	
	63 1,3-Dichloropropane	76	11.388	11.387	(0.934)	40200	5.00000	5.2	
	64 1,2-Dibromoethane	107	11.553	11.551	(1.328)	21835	5.00000	4.4	
	65 2-Hexanone	43	11.846	11.837	(0.972)	95385	25.0000	18.8	
*	66 Chlorobenzene-D5	117	12.189	12.194	(1.000)	706884	50.0000		
	67 Chlorobenzene	112	12.210	12.216	(1.002)	77582	5.00000	5.4	
	152 1-Chlorohexane	91	12.189	12.187	(1.000)	40056	5.00000	5.0	
	68 Ethylbenzene	106	12.246	12.251	(1.005)	37477	5.00000	5.0	
	69 1,1,1,2-Tetrachloroethane	131	12.296	12.294	(1.009)	22241	5.00000	4.6	
	71 m+p-Xylenes	106	12.439	12.437	(1.021)	96629	10.0000	10.5	
	72 o-Xylene	106	13.011	13.009	(1.067)	44557	5.00000	4.9	
	73 Styrene	104	13.083	13.081	(1.073)	66359	5.00000	4.8	
	74 Bromoform	173	13.118	13.116	(1.076)	13113	5.00000	5.1(M)	M6
	75 Isopropylbenzene	105	13.440	13.438	(0.866)	118063	5.00000	5.2	
$	76 P-Bromofluorobenzene	95	13.840	13.838	(1.591)	32179	5.00000	4.5	
	77 cis-1,4-Dichloro-2-Butene	53	13.940	13.938	(0.898)	11791	5.00000	4.6	
	78 trans-1,4-Dichloro-2-Butene	53	14.405	14.403	(0.928)	9544	5.00000	4.5	
	79 Bromobenzene	156	13.990	13.988	(0.901)	30098	5.00000	4.9	

WAS

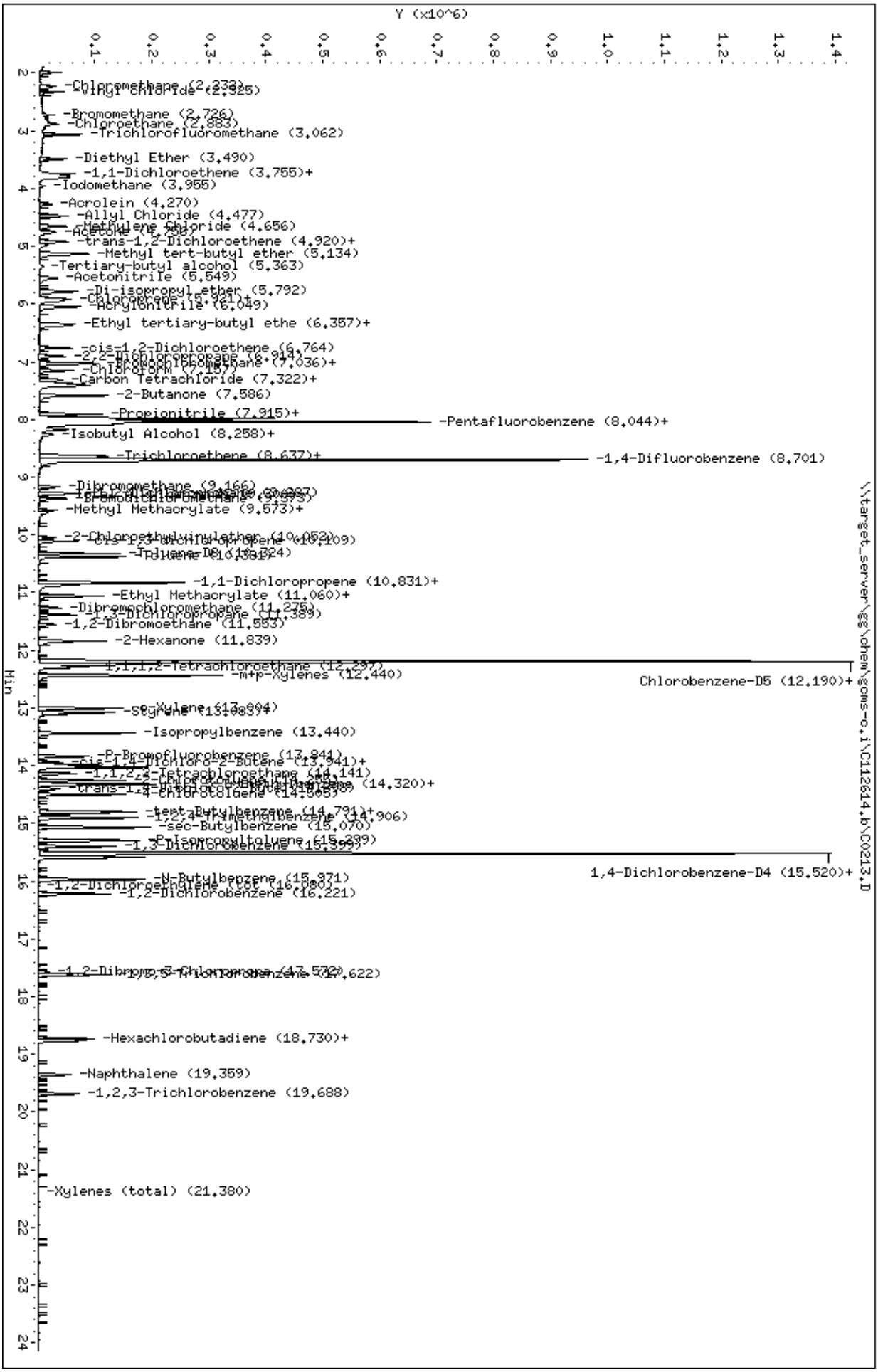
9:10 am, Dec 03, 2014

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Report Date: 01-Dec-2014 07:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80 N-Propylbenzene	91	14.026	14.031	(0.904)	158418	5.00000	5.6	
81 1,1,2,2-Tetrachloroethane	83	14.140	14.139	(0.911)	38087	5.00000	5.3	
82 1,3,5-Trimethylbenzene	105	14.319	14.317	(0.923)	102254	5.00000	5.2	
83 2-Chlorotoluene	91	14.255	14.253	(0.918)	92719	5.00000	5.3	
84 1,2,3-Trichloropropane	75	14.333	14.332	(0.924)	30295	5.00000	5.3	
85 4-Chlorotoluene	91	14.505	14.503	(0.935)	96367	5.00000	5.3	
86 tert-Butylbenzene	119	14.791	14.796	(0.953)	105292	5.00000	5.0	
87 Pentachloroethane	117	14.827	14.825	(0.955)	22066	5.00000	4.7	
88 1,2,4-Trimethylbenzene	105	14.905	14.903	(0.960)	101735	5.00000	5.3	
89 P-Isopropyltoluene	119	15.298	15.297	(0.986)	113087	5.00000	5.3	
90 1,3-Dichlorobenzene	146	15.406	15.404	(0.993)	63757	5.00000	5.1	
* 91 1,4-Dichlorobenzene-D4	152	15.520	15.518	(1.000)	380357	50.0000		
92 1,4-Dichlorobenzene	146	15.541	15.547	(1.001)	64124	5.00000	5.0	
93 N-Butylbenzene	91	15.970	15.968	(1.029)	112563	5.00000	5.3	
94 sec-Butylbenzene	105	15.070	15.068	(0.971)	149648	5.00000	5.5	
95 1,2-Dichlorobenzene	146	16.220	16.219	(1.045)	56861	5.00000	5.0	
96 1,2-Dibromo-3-Chloropropane	75	17.564	17.570	(1.132)	5400	5.00000	6.2	
97 1,3,5-Trichlorobenzene	180	17.621	17.627	(1.135)	43286	5.00000	4.6	
98 Hexachlorobutadiene	225	18.729	18.728	(1.207)	20685	5.00000	4.9	
99 1,2,4-Trichlorobenzene	180	18.765	18.763	(1.209)	29552	5.00000	4.5	
100 1,2,3-Trimethylbenzene	105	15.584	15.590	(1.004)	110210	5.00000	5.3	
101 Naphthalene	128	19.358	19.349	(1.247)	52421	5.00000	2.5	
102 1,2,3-Trichlorobenzene	180	19.687	19.685	(1.269)	24311	5.00000	4.6	
103 Methyl Acetate	43	4.977	4.975	(0.619)	24998	5.00000	4.8	
104 Methylcyclohexane	83	8.629	8.635	(1.073)	40507	5.00000	4.8	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Date : 26-NOV-2014 08:39
Client ID: Initial Calibration
Sample Info: WG154861-2
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.338)
-Vinyl Chloride (2.525)
-Bromomethane (2.726)
-Chloroethane (2.883)
-Trichlorofluoromethane (3.062)
-Diethyl Ether (3.490)
-1,1-Dichloroethene (3.755)+
-Iodomethane (3.955)
-Acrolein (4.270)
-Allyl Chloride (4.477)
-Methylene Chloride (4.656)
-Acetone (4.756)
-trans-1,2-Dichloroethene (4.920)+
-Methyl tert-butyl ether (5.134)
-Tertiary-butyl alcohol (5.363)
-Acetonitrile (5.549)
-Di-isopropyl ether (5.792)
-Chloroprene (5.921)+
-Acrylonitrile (6.049)
-Ethyl tertiary-butyl ethe (6.357)+
-cis-1,2-Dichloroethene (6.764)
-2,2-Dichloropropane (6.914)
-Bromochloromethane (7.036)+
-Chloroform (7.157)
-Carbon Tetrachloride (7.322)+
-2-Butanone (7.586)
-Propionitrile (7.915)+
-Pentafluorobenzene (8.044)+
-Isobutyl Alcohol (8.258)+
-Trichloroethene (8.637)+
-1,4-Difluorobenzene (8.701)
-Dibromomethane (9.166)
-Bromodichloromethane (9.573)
-Methyl Methacrylate (9.573)+
-2-Chloroethylvinylether (10.052)
-Toluene-D8 (10.324)
-1,1-Dichloropropene (10.831)+
-Ethyl Methacrylate (11.060)+
-Dibromochloromethane (11.275)
-1,2-Dibromoethane (11.553)
-2-Hexanone (11.839)
-1,1,1,2-Tetrachloroethane (12.297)
-m+p-Xylenes (12.440)
Chlorobenzene-D5 (12.190)+
-Styrene (13.094)
-Isopropylbenzene (13.440)
-P-Bromofluorobenzene (13.841)
-cis-1,4-Dichloro-2-Butene (13.941)+
-1,1,2,2-Tetrachloroethane (14.141)
-trans-1,4-Dichloro-2-Butene (14.320)+
-Chlorotoluene (14.566)
-tert-Butylbenzene (14.791)+
-1,2,4-Trimethylbenzene (14.906)
-sec-Butylbenzene (15.070)
-P-Isopropyltoluene (15.239)
-1,3-Dichlorobenzene (15.399)
1,4-Dichlorobenzene-D4 (15.520)+
-N-Butylbenzene (15.971)
-1,2-Dichloroethylene (tot) (16.080)
-1,2-Dichlorobenzene (16.221)
-1,2-Dibromo-3-Chloropropane (17.572)
-1,3,5-Trichlorobenzene (17.622)
-Hexachlorobutadiene (18.730)+
-Naphthalene (19.359)
-1,2,3-Trichlorobenzene (19.688)
-Xylenes (total) (21.380)

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0215.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0215.D
Lab Smp Id: WG154861-6 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 09:42
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-6
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 09:42 Cal File: C0215.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.986	1.994	(0.247)	1244119	200.000	186	
2 Chloromethane	50	2.229	2.230	(0.277)	1618755	200.000	198	
3 Vinyl chloride	62	2.329	2.330	(0.289)	1274113	200.000	177	
4 Bromomethane	94	2.730	2.730	(0.339)	622524	200.000	199	
5 Chloroethane	64	2.880	2.880	(0.358)	565228	200.000	196	
6 Trichlorofluoromethane	101	3.044	3.059	(0.378)	1427148	200.000	119(M)	M9
7 Diethyl Ether	59	3.509	3.488	(0.436)	1005231	200.000	188	
8 Tertiary-butyl alcohol	59	5.396	5.347	(0.670)	646789	1000.00	1020(A)	
9 1,1-Dichloroethene	96	3.752	3.753	(0.466)	981145	200.000	206(A)	
10 Carbon Disulfide	76	3.781	3.788	(0.470)	2825501	200.000	197	
11 Freon-113	151	3.809	3.817	(0.473)	677048	200.000	194	
12 Iodomethane	142	3.952	3.967	(0.491)	624331	200.000	216(A)	
13 Acrolein	56	4.281	4.274	(0.532)	1292675	1000.00	1050(A)	
14 Methylene Chloride	84	4.653	4.653	(0.578)	1180470	200.000	199	
15 Acetone	43	4.774	4.753	(0.593)	2425931	1000.00	970	
16 Isobutyl Alcohol	43	8.277	8.256	(1.028)	1427256	4000.00	4060(A)	
17 trans-1,2-Dichloroethene	96	4.917	4.925	(0.611)	1020284	200.000	185	
18 Allyl Chloride	41	4.481	4.482	(0.557)	1648677	200.000	177	
19 Methyl tert-butyl ether	73	5.139	5.132	(0.639)	5222244	400.000	402(A)	
20 Acetonitrile	39	5.553	5.540	(0.690)	533269	2000.00	2020(A)	
21 Di-isopropyl ether	45	5.796	5.790	(0.720)	3723898	200.000	200(A)	
22 Chloroprene	53	5.911	5.918	(0.734)	1841956	200.000	206(A)	
23 Propionitrile	54	7.991	7.970	(0.993)	2393366	2000.00	1920	
24 Methacrylonitrile	41	8.012	7.991	(0.996)	6391919	2000.00	2000	

WAS
9:10 am, Dec 03, 2014

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0215.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.954	5.954	(0.740)	1914930	200.000	186	
	26 Acrylonitrile	52	6.061	6.047	(0.753)	2581061	1000.00	974	
	27 Ethyl tertiary-butyl ether	59	6.361	6.354	(0.790)	3120984	200.000	207(A)	
	28 Vinyl Acetate	43	6.375	6.376	(0.732)	2911354	200.000	208(A)	
	29 cis-1,2-Dichloroethene	96	6.761	6.762	(0.840)	1161371	200.000	187	
	31 Methyl Methacrylate	41	9.570	9.571	(1.099)	1314883	200.000	202(A)	
	32 2,2-Dichloropropane	77	6.911	6.912	(0.859)	1557729	200.000	212(A)	
	33 Bromochloromethane	128	7.047	7.041	(0.876)	519326	200.000	186	
	34 Chloroform	83	7.162	7.162	(0.890)	1914139	200.000	183	
	35 Carbon Tetrachloride	117	7.319	7.319	(0.841)	1474830	200.000	211(A)	
	36 Tetrahydrofuran	42	7.369	7.362	(0.916)	2224548	1000.00	1020(A)	
$	37 Dibromofluoromethane	113	7.405	7.405	(0.920)	1114528	200.000	201(A)	
	38 1,1,1-Trichloroethane	97	7.419	7.419	(0.922)	1782442	200.000	202(A)	
	39 1,1-Dichloropropene	75	10.871	10.872	(1.249)	1705083	200.000	221(A)	
	40 2-Butanone	43	7.590	7.584	(0.943)	3524069	1000.00	1020(A)	
	41 Benzene	78	7.912	7.913	(0.909)	3872551	200.000	175	
*	42 Pentafluorobenzene	168	8.048	8.041	(1.000)	507503	50.0000		
	43 Cyclohexane	56	7.019	7.026	(0.872)	1830984	200.000	202(A)	
	44 Ethyl Methacrylate	69	11.064	11.058	(1.271)	1691124	200.000	202(A)	
$	45 1,2-Dichloroethane-D4	65	8.098	8.090	(1.006)	1323084	200.000	188	
	46 Tertiary-amyl methyl ether	73	8.091	8.084	(1.005)	2824607	200.000	222(A)	
	47 1,2-Dichloroethane	62	8.184	8.177	(0.940)	1482620	200.000	185	
	48 Trichloroethene	95	8.655	8.656	(0.994)	1101656	200.000	194	
*	49 1,4-Difluorobenzene	114	8.706	8.706	(1.000)	822608	50.0000		
	50 Dibromomethane	93	9.170	9.164	(1.053)	732205	200.000	194	
	51 1,2-Dichloropropane	63	9.284	9.285	(1.067)	1100781	200.000	197	
	52 Bromodichloromethane	83	9.370	9.371	(1.076)	1589998	200.000	210(A)	
	53 cis-1,3-dichloropropene	75	10.114	10.114	(1.162)	1872237	200.000	212(A)	
	54 1,4-Dioxane	88	9.620	9.614	(1.105)	368209	4000.00	3400	
$	55 Toluene-D8	98	10.321	10.322	(1.186)	3445018	200.000	182	
	56 2-Chloroethylvinylether	63	10.049	10.050	(1.154)	803036	200.000	201(A)	
	57 Toluene	92	10.385	10.379	(1.193)	2647090	200.000	191	
	58 4-methyl-2-pentanone	43	10.836	10.829	(1.245)	5277527	1000.00	841	
	59 Tetrachloroethene	164	10.821	10.822	(0.887)	1163904	200.000	205(A)	
	60 trans-1,3-Dichloropropene	75	10.871	10.872	(1.249)	1705083	200.000	221(A)	
	61 1,1,2-Trichloroethane	83	11.064	11.058	(1.271)	931872	200.000	205(A)	
	62 Dibromochloromethane	129	11.272	11.272	(0.924)	1373775	200.000	219(A)	
	63 1,3-Dichloropropane	76	11.386	11.387	(0.934)	1817362	200.000	183	
	64 1,2-Dibromoethane	107	11.558	11.551	(1.328)	1186385	200.000	210(A)	
	65 2-Hexanone	43	11.843	11.837	(0.971)	4413519	1000.00	846	
*	66 Chlorobenzene-D5	117	12.194	12.194	(1.000)	914379	50.0000		
	67 Chlorobenzene	112	12.215	12.216	(1.002)	3153370	200.000	169	
	152 1-Chlorohexane	91	12.187	12.187	(0.999)	1906916	200.000	186	
	68 Ethylbenzene	106	12.251	12.251	(1.005)	1853109	200.000	191	
	69 1,1,1,2-Tetrachloroethane	131	12.301	12.294	(1.009)	1276863	200.000	207(A)	
	71 m+p-Xylenes	106	12.444	12.437	(1.021)	4202547	400.000	353	
	72 o-Xylene	106	13.009	13.009	(1.067)	2295645	200.000	196	
	73 Styrene	104	13.080	13.081	(1.073)	3414822	200.000	192	
	74 Bromoform	173	13.123	13.116	(1.076)	1011055	200.000	202(A)	
	75 Isopropylbenzene	105	13.437	13.438	(0.866)	4973048	200.000	175	
$	76 P-Bromofluorobenzene	95	13.838	13.838	(1.590)	1715415	200.000	210(A)	
	77 cis-1,4-Dichloro-2-Butene	53	13.945	13.938	(0.898)	698992	200.000	219(A)	
	78 trans-1,4-Dichloro-2-Butene	53	14.402	14.403	(0.928)	554518	200.000	211(A)	
	79 Bromobenzene	156	13.988	13.988	(0.901)	1531685	200.000	199	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0215.D
Report Date: 01-Dec-2014 07:52

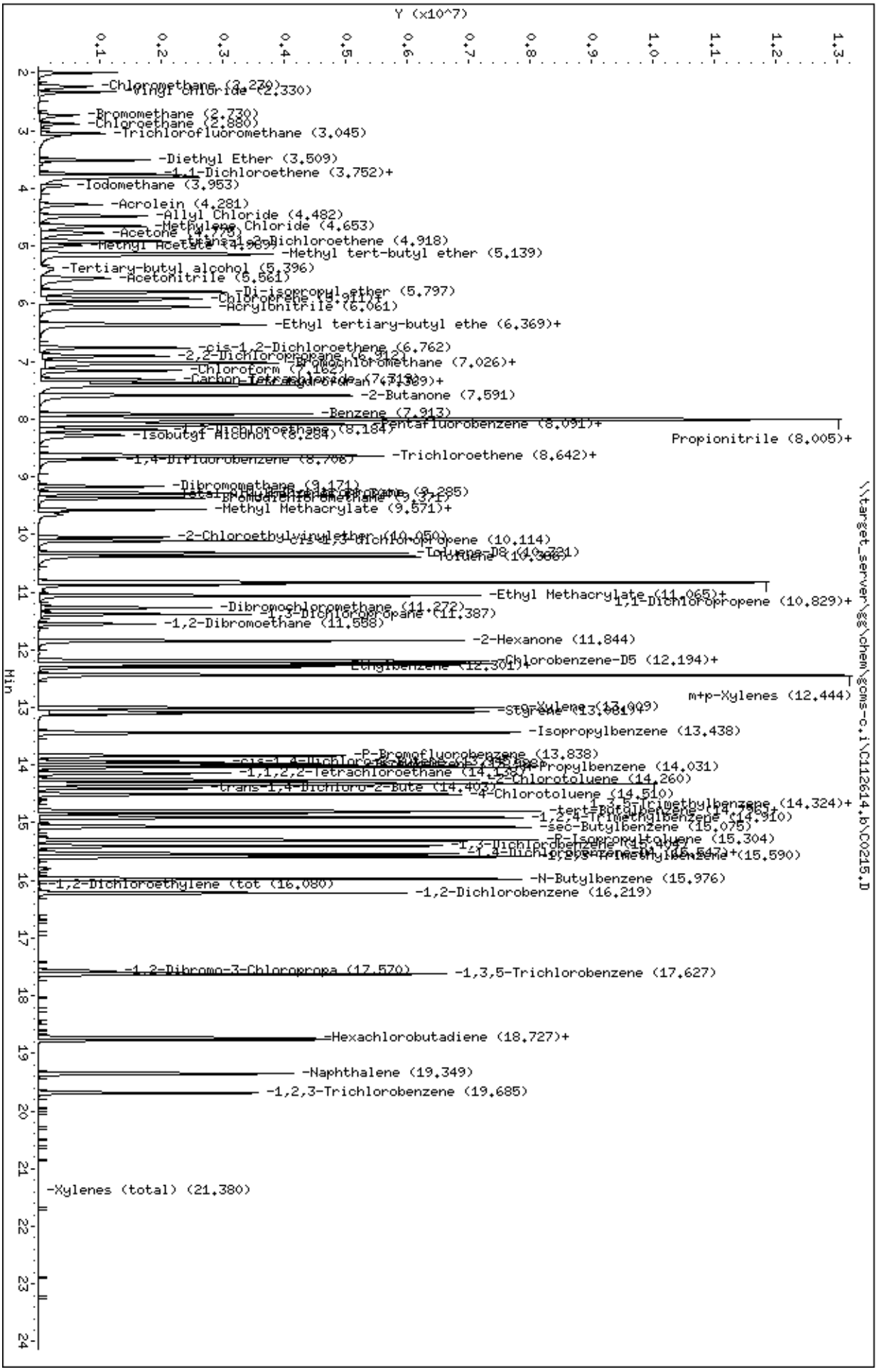
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	80 N-Propylbenzene	91	14.031	14.031	(0.904)	5546511	200.000	156	
	81 1,1,2,2-Tetrachloroethane	83	14.138	14.139	(0.911)	1672604	200.000	185	
	82 1,3,5-Trimethylbenzene	105	14.324	14.317	(0.923)	4317950	200.000	175	
	83 2-Chlorotoluene	91	14.260	14.253	(0.919)	3839120	200.000	174	
	84 1,2,3-Trichloropropane	75	14.338	14.332	(0.924)	1388776	200.000	194	
	85 4-Chlorotoluene	91	14.510	14.503	(0.935)	3886127	200.000	170	
	86 tert-Butylbenzene	119	14.796	14.796	(0.953)	4959360	200.000	189	
	87 Pentachloroethane	117	14.824	14.825	(0.955)	1263886	200.000	216(A)	
	88 1,2,4-Trimethylbenzene	105	14.910	14.903	(0.960)	4200030	200.000	174	
	89 P-Isopropyltoluene	119	15.303	15.297	(0.986)	4693286	200.000	175	
	90 1,3-Dichlorobenzene	146	15.403	15.404	(0.992)	2825878	200.000	180	
*	91 1,4-Dichlorobenzene-D4	152	15.525	15.518	(1.000)	476316	50.0000		
	92 1,4-Dichlorobenzene	146	15.546	15.547	(1.001)	2772558	200.000	174	
	93 N-Butylbenzene	91	15.975	15.968	(1.029)	4408271	200.000	166	
	94 sec-Butylbenzene	105	15.074	15.068	(0.971)	5448546	200.000	159	
	95 1,2-Dichlorobenzene	146	16.218	16.219	(1.045)	2651791	200.000	187	
	96 1,2-Dibromo-3-Chloropropane	75	17.569	17.570	(1.132)	354875	200.000	203(A)	
	97 1,3,5-Trichlorobenzene	180	17.626	17.627	(1.135)	2237455	200.000	190	
	98 Hexachlorobutadiene	225	18.727	18.728	(1.206)	938380	200.000	178	
	99 1,2,4-Trichlorobenzene	180	18.763	18.763	(1.209)	1614300	200.000	195	
	100 1,2,3-Trimethylbenzene	105	15.589	15.590	(1.004)	4371766	200.000	169	
	101 Naphthalene	128	19.356	19.349	(1.247)	3641918	200.000	196	
	102 1,2,3-Trichlorobenzene	180	19.685	19.685	(1.268)	1247857	200.000	190	
	103 Methyl Acetate	43	4.989	4.975	(0.620)	1261982	200.000	207(A)	
	104 Methylcyclohexane	83	8.634	8.635	(1.073)	2100583	200.000	213(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0215.D
Date : 26-NOV-2014 09:42
Client ID: Initial Calibration
Sample Info: WG154861-6
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Lab Smp Id: WG154861-1 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 13:18 MS Autotune Date: 03-APR-2014 08:54
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-1
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 13:18 Cal File: C0220.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.988	1.994	(0.247)	6183	1.00000	1.0	
3 Vinyl chloride	62	2.324	2.330	(0.289)	7132	1.00000	1.1	
4 Bromomethane	94	2.725	2.730	(0.339)	3768	1.00000	2.1	
6 Trichlorofluoromethane	101	3.061	3.059	(0.381)	11432	1.00000	1.0	
7 Diethyl Ether	59	3.489	3.488	(0.434)	5493	1.00000	1.1	
8 Tertiary-butyl alcohol	59	5.348	5.347	(0.665)	1935	5.00000	18.3(M)	M9
9 1,1-Dichloroethene	96	3.754	3.753	(0.467)	4367	1.00000	0.99(a)	
10 Carbon Disulfide	76	3.782	3.788	(0.470)	19476	1.00000	0.70(a)	
11 Freon-113	151	3.818	3.817	(0.475)	3455	1.00000	1.1	
12 Iodomethane	142	3.961	3.967	(0.493)	3183	1.00000	1.2(M)	M6
13 Acrolein	56	4.276	4.274	(0.532)	5997	5.00000	5.3	
15 Acetone	43	4.769	4.753	(0.593)	11873	5.00000	5.1	
16 Isobutyl Alcohol	43	8.264	8.256	(1.028)	3328	20.0000	67.1(M)	M9
17 trans-1,2-Dichloroethene	96	4.919	4.925	(0.612)	6092	1.00000	1.2	
18 Allyl Chloride	41	4.476	4.482	(0.557)	8041	1.00000	0.94(a)	
19 Methyl tert-butyl ether	73	5.133	5.132	(0.638)	22102	2.00000	1.8	
20 Acetonitrile	39	5.541	5.540	(0.689)	3391	10.0000	28.0(M)	M9
21 Di-isopropyl ether	45	5.798	5.790	(0.721)	15101	1.00000	0.88(a)	
22 Chloroprene	53	5.913	5.918	(0.735)	7220	1.00000	0.87(a)	
23 Propionitrile	54	7.978	7.970	(0.992)	11551	10.0000	10.0	
24 Methacrylonitrile	41	7.993	7.991	(0.994)	47534	10.0000	12.6	
25 1,1-Dichloroethane	63	5.948	5.954	(0.740)	9581	1.00000	1.0	
26 Acrylonitrile	52	6.048	6.047	(0.752)	12599	5.00000	5.1	
27 Ethyl tertiary-butyl ether	59	6.349	6.354	(0.789)	11838	1.00000	0.85(a)	

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9:10 am, Dec 03, 2014

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	28 Vinyl Acetate	43	6.391	6.376	(0.735)	11009	1.00000	0.83(a)	
	29 cis-1,2-Dichloroethene	96	6.770	6.762	(0.842)	6153	1.00000	1.1	
	31 Methyl Methacrylate	41	9.587	9.571	(1.102)	4151	1.00000	2.7(M)	M9
	32 2,2-Dichloropropane	77	6.913	6.912	(0.860)	6104	1.00000	0.90(a)	
	33 Bromochloromethane	128	7.042	7.041	(0.876)	3204	1.00000	1.2	
	34 Chloroform	83	7.163	7.162	(0.891)	9771	1.00000	1.0	
	35 Carbon Tetrachloride	117	7.328	7.319	(0.842)	5478	1.00000	0.83(a)	
	36 Tetrahydrofuran	42	7.378	7.362	(0.917)	9430	5.00000	4.7(aM)	M9
$	37 Dibromofluoromethane	113	7.406	7.405	(0.921)	4824	1.00000	0.94(a)	
	38 1,1,1-Trichloroethane	97	7.414	7.419	(0.922)	7262	1.00000	0.89(a)	
	39 1,1-Dichloropropene	75	10.873	10.872	(1.250)	6397	1.00000	0.88(a)	
	40 2-Butanone	43	7.592	7.584	(0.944)	12602	5.00000	3.9(a)	
	41 Benzene	78	7.914	7.913	(0.910)	21533	1.00000	1.0	
*	42 Pentafluorobenzene	168	8.043	8.041	(1.000)	468759	50.0000		
	43 Cyclohexane	56	7.020	7.026	(0.873)	7214	1.00000	0.86(a)	
	44 Ethyl Methacrylate	69	11.066	11.058	(1.272)	3929	1.00000	2.4(M)	M9
$	45 1,2-Dichloroethane-D4	65	8.093	8.090	(1.006)	7565	1.00000	1.2	
	46 Tertiary-amyl methyl ether	73	8.086	8.084	(1.005)	9695	1.00000	0.82(aM)	M9
	47 1,2-Dichloroethane	62	8.186	8.177	(0.941)	8589	1.00000	1.1	
	48 Trichloroethene	95	8.657	8.656	(0.995)	5120	1.00000	0.95(a)	
*	49 1,4-Difluorobenzene	114	8.700	8.706	(1.000)	777634	50.0000		
	50 Dibromomethane	93	9.172	9.164	(1.054)	4565	1.00000	1.3	
	51 1,2-Dichloropropane	63	9.286	9.285	(1.067)	5138	1.00000	0.97(a)	
	52 Bromodichloromethane	83	9.372	9.371	(1.077)	6177	1.00000	0.86(a)	
	53 cis-1,3-dichloropropene	75	10.116	10.114	(1.163)	6987	1.00000	0.84(a)	
	54 1,4-Dioxane	88	9.622	9.614	(1.106)	1710	20.0000	16.7(aM)	M9
$	55 Toluene-D8	98	10.323	10.322	(1.186)	16395	1.00000	0.92(a)	
	56 2-Chloroethylvinylether	63	10.051	10.050	(1.155)	2262	1.00000	1.8(M)	M9
	57 Toluene	92	10.387	10.379	(1.194)	11722	1.00000	0.90(a)	
	59 Tetrachloroethene	164	10.830	10.822	(0.889)	4957	1.00000	1.0	
	60 trans-1,3-Dichloropropene	75	10.873	10.872	(1.250)	6397	1.00000	0.88(a)	
	61 1,1,2-Trichloroethane	83	11.059	11.058	(1.271)	4043	1.00000	0.94(a)	
	62 Dibromochloromethane	129	11.266	11.272	(0.924)	4296	1.00000	0.82(a)	
	63 1,3-Dichloropropane	76	11.388	11.387	(0.934)	8023	1.00000	0.97(a)	
	64 1,2-Dibromoethane	107	11.559	11.551	(1.329)	5579	1.00000	1.0(M)	M6
*	66 Chlorobenzene-D5	117	12.188	12.194	(1.000)	763615	50.0000		
	67 Chlorobenzene	112	12.210	12.216	(1.002)	17274	1.00000	1.1	
	152 1-Chlorohexane	91	12.188	12.187	(1.000)	9155	1.00000	1.1	
	68 Ethylbenzene	106	12.253	12.251	(1.005)	7969	1.00000	0.98(a)	
	69 1,1,1,2-Tetrachloroethane	131	12.296	12.294	(1.009)	4524	1.00000	0.88(a)	
	71 m+p-Xylenes	106	12.439	12.437	(1.021)	18112	2.00000	1.8(a)	
	72 o-Xylene	106	13.011	13.009	(1.067)	7824	1.00000	0.80(a)	
	73 Styrene	104	13.082	13.081	(1.073)	10988	1.00000	0.74(a)	
	74 Bromoform	173	13.118	13.116	(1.076)	2752	1.00000	2.4	
	75 Isopropylbenzene	105	13.439	13.438	(0.866)	21803	1.00000	0.89(a)	
$	76 P-Bromofluorobenzene	95	13.840	13.838	(1.591)	6863	1.00000	0.89(a)	
	77 cis-1,4-Dichloro-2-Butene	53	13.940	13.938	(0.898)	2393	1.00000	0.88(a)	
	78 trans-1,4-Dichloro-2-Butene	53	14.397	14.403	(0.928)	2255	1.00000	1.00(M)	M9
	79 Bromobenzene	156	13.990	13.988	(0.901)	6669	1.00000	1.0	
	80 N-Propylbenzene	91	14.033	14.031	(0.904)	30312	1.00000	0.99(a)	
	81 1,1,2,2-Tetrachloroethane	83	14.140	14.139	(0.911)	8025	1.00000	1.0	
	82 1,3,5-Trimethylbenzene	105	14.319	14.317	(0.923)	19025	1.00000	0.90(a)	
	83 2-Chlorotoluene	91	14.261	14.253	(0.919)	17907	1.00000	0.95(a)	
	84 1,2,3-Trichloropropane	75	14.340	14.332	(0.924)	5828	1.00000	0.95(a)	

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9:10 am, Dec 03, 2014

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
85	4-Chlorotoluene	91	14.504	14.503	(0.935)	20021	1.00000	1.0	
86	tert-Butylbenzene	119	14.798	14.796	(0.953)	19491	1.00000	0.87(a)	
88	1,2,4-Trimethylbenzene	105	14.905	14.903	(0.960)	17663	1.00000	0.86(a)	
89	P-Isopropyltoluene	119	15.298	15.297	(0.986)	18594	1.00000	0.81(a)	
90	1,3-Dichlorobenzene	146	15.405	15.404	(0.993)	15013	1.00000	1.1	
* 91	1,4-Dichlorobenzene-D4	152	15.519	15.518	(1.000)	408069	50.0000		
92	1,4-Dichlorobenzene	146	15.541	15.547	(1.001)	17125	1.00000	1.2	
93	N-Butylbenzene	91	15.970	15.968	(1.029)	19164	1.00000	0.84(a)	
94	sec-Butylbenzene	105	15.069	15.068	(0.971)	27901	1.00000	0.95(a)	
95	1,2-Dichlorobenzene	146	16.220	16.219	(1.045)	12496	1.00000	1.0	
96	1,2-Dibromo-3-Chloropropane	75	17.571	17.570	(1.132)	879	1.00000	3.0	
97	1,3,5-Trichlorobenzene	180	17.628	17.627	(1.136)	11038	1.00000	1.1	
98	Hexachlorobutadiene	225	18.722	18.728	(1.206)	5648	1.00000	1.2	
99	1,2,4-Trichlorobenzene	180	18.765	18.763	(1.209)	7699	1.00000	1.1	
100	1,2,3-Trimethylbenzene	105	15.591	15.590	(1.005)	21769	1.00000	0.98(a)	
102	1,2,3-Trichlorobenzene	180	19.694	19.685	(1.269)	6018	1.00000	1.1	
103	Methyl Acetate	43	4.990	4.975	(0.621)	6064	1.00000	1.1(M)	M9
104	Methylcyclohexane	83	8.629	8.635	(1.073)	7554	1.00000	0.83(a)	

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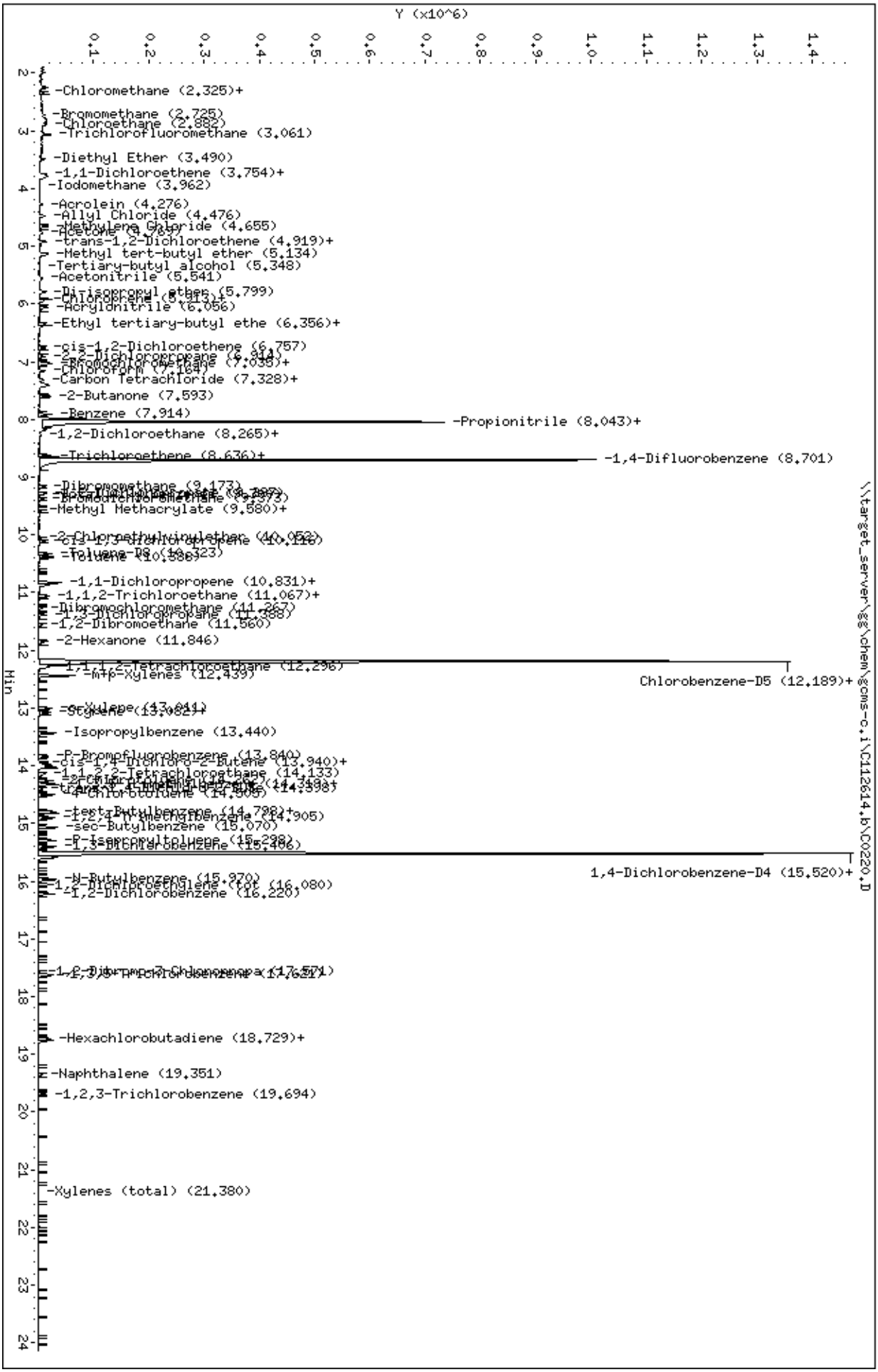
9:10 am, Dec 03, 2014

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Date : 26-NOV-2014 13:18
Client ID: Initial Calibration
Sample Info: WG154861-1
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.325)+
-Bromomethane (2.725)
-Chloroethane (2.882)
-Trichlorofluoromethane (3.061)
-Diethyl Ether (3.490)
-1,1-Dichloroethene (3.754)+
-Iodomethane (3.962)
-Acrolein (4.276)
-Allyl Chloride (4.476)
-Methylene Chloride (4.655)
-Acetone (4.769)
-trans-1,2-Dichloroethene (4.919)+
-Methyl tert-butyl ether (5.134)
-Tertiary-butyl alcohol (5.348)
-Acetonitrile (5.541)
-Diisopropyl ether (5.799)
-Chloroprene (6.021)+
-Acrylonitrile (6.056)
-Ethyl tertiary-butyl ethe (6.356)+
-cis-1,2-Dichloroethene (6.757)
-2,2-Dichloropropane (6.914)
-Bromochloromethane (7.035)+
-Chloroform (7.164)
-Carbon Tetrachloride (7.328)+
-2-Butanone (7.593)
-Benzene (7.914)
-Propionitrile (8.043)+
-1,2-Dichloroethane (8.265)+
-Trichloroethene (8.636)+
-1,4-Difluorobenzene (8.701)
-Dibromomethane (9.173)
-Methyl Methacrylate (9.580)+
-2-Chloroethylvinylether (10.052)
-Toluene-D8 (10.323)
-Toluene (10.586)
-1,1-Dichloropropene (10.831)+
-1,1,2-Trichloroethane (11.067)+
-Dibromochloromethane (11.267)
-1,2-Dibromoethane (11.560)
-2-Hexanone (11.846)
-1,1,1,2-Tetrachloroethane (12.296)
-m+p-Xylenes (12.439)
Chlorobenzene-D5 (12.189)+
-o-Xylene (13.041)
-Isopropylbenzene (13.440)
-P-Bromofluorobenzene (13.840)
-cis-1,4-Dichloro-2-Butene (13.940)+
-1,1,2,2-Tetrachloroethane (14.133)
-Chlorobenzene (14.506)
-tert-Butylbenzene (14.798)+
-1,2,4-Trimethylbenzene (14.905)
-sec-Butylbenzene (15.070)
-p-Isopropyltoluene (15.236)
-1,3-Dichlorobenzene (15.406)
1,4-Dichlorobenzene-D4 (15.520)+
-N-Butylbenzene (15.970)
-1,2-Dichloroethylene-tot (16.080)
-1,2-Dichlorobenzene (16.220)
-1,2-Dibromo-3-Chloropropa (17.571)
-1,3,5-Trichlorobenzene (17.621)
-Hexachlorobutadiene (18.729)+
-Naphthalene (19.351)
-1,2,3-Trichlorobenzene (19.694)
-Xylenes (total) (21.380)

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0222.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0222.D
Lab Smp Id: WG154861-5 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 14:22 MS Autotune Date: 03-APR-2014 08:54
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-5
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:22 Cal File: C0222.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

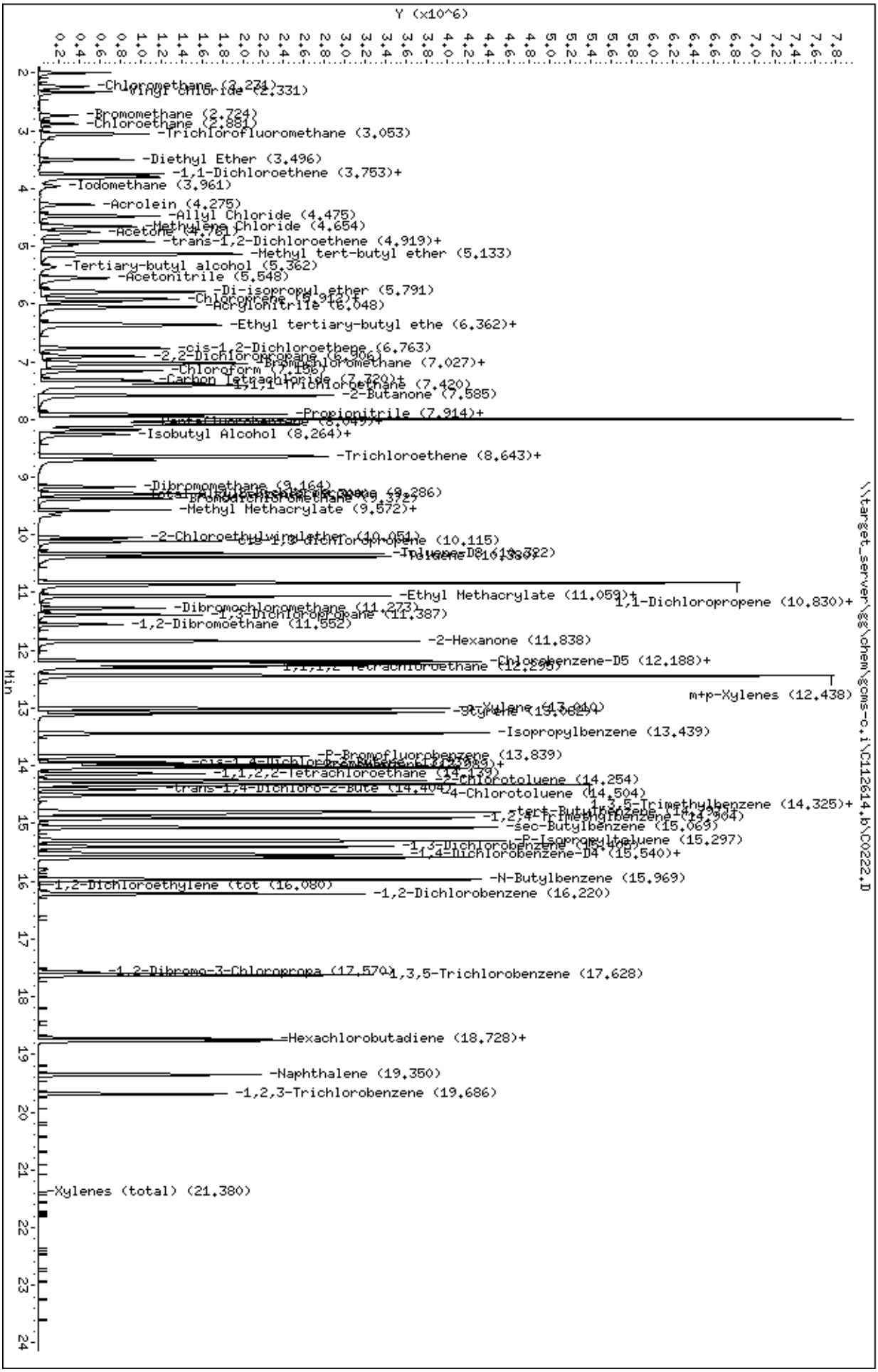
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.987	1.994	(0.247)	619262	100.000	95.2	
2 Chloromethane	50	2.230	2.230	(0.277)	826979	100.000	103	
3 Vinyl chloride	62	2.330	2.330	(0.290)	674925	100.000	96.4	
4 Bromomethane	94	2.724	2.730	(0.338)	309589	100.000	102	
5 Chloroethane	64	2.881	2.880	(0.358)	300052	100.000	106	
6 Trichlorofluoromethane	101	3.052	3.059	(0.379)	1190330	100.000	102	
7 Diethyl Ether	59	3.496	3.488	(0.434)	486136	100.000	93.3	
8 Tertiary-butyl alcohol	59	5.361	5.347	(0.666)	275030	500.000	455	
9 1,1-Dichloroethene	96	3.753	3.753	(0.466)	472626	100.000	102	
10 Carbon Disulfide	76	3.782	3.788	(0.470)	1470539	100.000	105	
11 Freon-113	151	3.810	3.817	(0.473)	325470	100.000	96.1	
12 Iodomethane	142	3.960	3.967	(0.492)	296801	100.000	106	
13 Acrolein	56	4.275	4.274	(0.531)	609493	500.000	508	
14 Methylene Chloride	84	4.654	4.653	(0.578)	596985	100.000	103	
15 Acetone	43	4.761	4.753	(0.592)	1131900	500.000	465	
16 Isobutyl Alcohol	43	8.263	8.256	(1.027)	642577	2000.00	1910	
17 trans-1,2-Dichloroethene	96	4.918	4.925	(0.611)	539135	100.000	100	
18 Allyl Chloride	41	4.475	4.482	(0.556)	957580	100.000	106	
19 Methyl tert-butyl ether	73	5.132	5.132	(0.638)	2585734	200.000	205	
20 Acetonitrile	39	5.547	5.540	(0.689)	249663	1000.00	978	
21 Di-isopropyl ether	45	5.790	5.790	(0.719)	1964835	100.000	109	
22 Chloroprene	53	5.912	5.918	(0.734)	945548	100.000	109	
23 Propionitrile	54	7.977	7.970	(0.991)	1186030	1000.00	976	
24 Methacrylonitrile	41	7.999	7.991	(0.994)	3806642	1000.00	1020	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0222.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.947	5.954	(0.739)	1025248	100.000	102	
	26 Acrylonitrile	52	6.047	6.047	(0.751)	1266909	500.000	492	
	27 Ethyl tertiary-butyl ether	59	6.355	6.354	(0.790)	1603244	100.000	110	
	28 Vinyl Acetate	43	6.376	6.376	(0.732)	1461496	100.000	106	
	29 cis-1,2-Dichloroethene	96	6.762	6.762	(0.840)	611883	100.000	102	
	31 Methyl Methacrylate	41	9.571	9.571	(1.099)	611744	100.000	96.8	
	32 2,2-Dichloropropane	77	6.905	6.912	(0.858)	737944	100.000	103	
	33 Bromochloromethane	128	7.041	7.041	(0.875)	250274	100.000	92.2	
	34 Chloroform	83	7.155	7.162	(0.889)	1021175	100.000	100	
	35 Carbon Tetrachloride	117	7.320	7.319	(0.841)	738159	100.000	108	
	36 Tetrahydrofuran	42	7.363	7.362	(0.915)	1094124	500.000	517	
$	37 Dibromofluoromethane	113	7.406	7.405	(0.920)	570677	100.000	106	
	38 1,1,1-Trichloroethane	97	7.420	7.419	(0.922)	908352	100.000	106	
	39 1,1-Dichloropropene	75	10.872	10.872	(1.249)	811870	100.000	107	
	40 2-Butanone	43	7.584	7.584	(0.942)	1721747	500.000	510	
	41 Benzene	78	7.913	7.913	(0.909)	2171994	100.000	100	
*	42 Pentafluorobenzene	168	8.049	8.041	(1.000)	493732	50.0000		
	43 Cyclohexane	56	7.027	7.026	(0.873)	931255	100.000	106	
	44 Ethyl Methacrylate	69	11.058	11.058	(1.270)	795493	100.000	97.6	
$	45 1,2-Dichloroethane-D4	65	8.092	8.090	(1.005)	671554	100.000	98.3	
	46 Tertiary-amyl methyl ether	73	8.085	8.084	(1.004)	1377779	100.000	111	
	47 1,2-Dichloroethane	62	8.178	8.177	(0.939)	752226	100.000	95.7	
	48 Trichloroethene	95	8.656	8.656	(0.994)	577308	100.000	104	
*	49 1,4-Difluorobenzene	114	8.706	8.706	(1.000)	807320	50.0000		
	50 Dibromomethane	93	9.164	9.164	(1.053)	351154	100.000	95.0	
	51 1,2-Dichloropropane	63	9.285	9.285	(1.066)	572244	100.000	104	
	52 Bromodichloromethane	83	9.371	9.371	(1.076)	801934	100.000	108	
	53 cis-1,3-dichloropropene	75	10.115	10.114	(1.162)	936845	100.000	108	
	54 1,4-Dioxane	88	9.614	9.614	(1.104)	166545	2000.00	1570	
$	55 Toluene-D8	98	10.322	10.322	(1.186)	1962959	100.000	106	
	56 2-Chloroethylvinylether	63	10.050	10.050	(1.154)	379075	100.000	97.4	
	57 Toluene	92	10.379	10.379	(1.192)	1441682	100.000	106	
	58 4-methyl-2-pentanone	43	10.829	10.829	(1.244)	3021946	500.000	489	
	59 Tetrachloroethene	164	10.822	10.822	(0.887)	557989	100.000	104	
	60 trans-1,3-Dichloropropene	75	10.872	10.872	(1.249)	811870	100.000	107	
	61 1,1,2-Trichloroethane	83	11.058	11.058	(1.270)	451269	100.000	101	
	62 Dibromochloromethane	129	11.273	11.272	(0.924)	644801	100.000	109	
	63 1,3-Dichloropropane	76	11.387	11.387	(0.934)	909485	100.000	97.0	
	64 1,2-Dibromoethane	107	11.551	11.551	(1.327)	565553	100.000	102	
	65 2-Hexanone	43	11.837	11.837	(0.971)	2401338	500.000	486	
*	66 Chlorobenzene-D5	117	12.195	12.194	(1.000)	862194	50.0000		
	67 Chlorobenzene	112	12.216	12.216	(1.002)	1699418	100.000	96.4	
	152 1-Chlorohexane	91	12.188	12.187	(0.999)	959744	100.000	99.4	
	68 Ethylbenzene	106	12.252	12.251	(1.005)	937396	100.000	102	
	69 1,1,1,2-Tetrachloroethane	131	12.295	12.294	(1.008)	621148	100.000	107	
	71 m+p-Xylenes	106	12.438	12.437	(1.020)	2320157	200.000	206	
	72 o-Xylene	106	13.010	13.009	(1.067)	1194987	100.000	108	
	73 Styrene	104	13.081	13.081	(1.073)	1864064	100.000	111	
	74 Bromoform	173	13.117	13.116	(1.076)	454828	100.000	97.1	
	75 Isopropylbenzene	105	13.438	13.438	(0.866)	2900600	100.000	103	
$	76 P-Bromofluorobenzene	95	13.839	13.838	(1.589)	890939	100.000	111	
	77 cis-1,4-Dichloro-2-Butene	53	13.939	13.938	(0.898)	320750	100.000	102	
	78 trans-1,4-Dichloro-2-Butene	53	14.403	14.403	(0.928)	259717	100.000	100	
	79 Bromobenzene	156	13.989	13.988	(0.901)	772823	100.000	102	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0222.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.032	14.031	(0.904)	3394685	100.000	96.6	
81	1,1,2,2-Tetrachloroethane	83	14.139	14.139	(0.911)	852378	100.000	95.7	
82	1,3,5-Trimethylbenzene	105	14.318	14.317	(0.923)	2513581	100.000	103	
83	2-Chlorotoluene	91	14.253	14.253	(0.918)	2206597	100.000	102	
84	1,2,3-Trichloropropane	75	14.332	14.332	(0.924)	694881	100.000	98.4	
85	4-Chlorotoluene	91	14.504	14.503	(0.935)	2221481	100.000	98.7	
86	tert-Butylbenzene	119	14.797	14.796	(0.953)	2718910	100.000	105	
87	Pentachloroethane	117	14.825	14.825	(0.955)	616519	100.000	107	
88	1,2,4-Trimethylbenzene	105	14.904	14.903	(0.960)	2445607	100.000	103	
89	P-Isopropyltoluene	119	15.297	15.297	(0.986)	2734758	100.000	103	
90	1,3-Dichlorobenzene	146	15.404	15.404	(0.993)	1514161	100.000	98.1	
* 91	1,4-Dichlorobenzene-D4	152	15.519	15.518	(1.000)	469150	50.0000		
92	1,4-Dichlorobenzene	146	15.547	15.547	(1.002)	1464567	100.000	93.4	
93	N-Butylbenzene	91	15.969	15.968	(1.029)	2587244	100.000	99.2	
94	sec-Butylbenzene	105	15.068	15.068	(0.971)	3288038	100.000	97.6	
95	1,2-Dichlorobenzene	146	16.219	16.219	(1.045)	1393533	100.000	99.8	
96	1,2-Dibromo-3-Chloropropane	75	17.570	17.570	(1.132)	159508	100.000	94.1	
97	1,3,5-Trichlorobenzene	180	17.627	17.627	(1.136)	1168428	100.000	100	
98	Hexachlorobutadiene	225	18.728	18.728	(1.207)	483802	100.000	93.0	
99	1,2,4-Trichlorobenzene	180	18.764	18.763	(1.209)	823159	100.000	101	
100	1,2,3-Trimethylbenzene	105	15.590	15.590	(1.005)	2528080	100.000	99.1	
101	Naphthalene	128	19.350	19.349	(1.247)	1908583	100.000	104	
102	1,2,3-Trichlorobenzene	180	19.686	19.685	(1.269)	626600	100.000	97.0	
103	Methyl Acetate	43	4.975	4.975	(0.618)	598898	100.000	101	
104	Methylcyclohexane	83	8.628	8.635	(1.072)	1019809	100.000	106	


Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0222.D
Date : 26-NOV-2014 14:22
Client ID: Initial Calibration
Sample Info: WG154861-5
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.271)
-Vinyl chloride (2.331)
-Bromomethane (2.724)
-Chloroethane (2.881)
-Trichlorofluoromethane (3.053)
-Diethyl Ether (3.496)
-1,1-Dichloroethene (3.753)+
-Iodomethane (3.961)
-Acrolein (4.275)
-Allyl Chloride (4.475)
-Methylene Chloride (4.654)
-Acetone (4.761)
-trans-1,2-Dichloroethene (4.919)+
-Methyl tert-butyl ether (5.133)
-Tertiary-butyl alcohol (5.362)
-Acetonitrile (5.548)
-Di-isopropyl ether (5.791)
-Acrylonitrile (6.048)
-Ethyl tertiary-butyl ethe (6.362)+
-cis-1,2-Dichloroethene (6.763)
-2,2-Dichloropropane (6.906)
-Bromochloromethane (7.027)+
-Chloroform (7.156)
-Carbon tetrachloride (7.320)+
-1,1,1-Trichloroethane (7.420)
-2-Butanone (7.585)
-Propionitrile (7.914)+
-Isobutyl Alcohol (8.264)+
-Trichloroethene (8.643)+
-Dibromomethane (9.164)
-Methyl Methacrylate (9.572)+
-2-Chloroethylvinylether (10.051)
-Ethyl Methacrylate (11.059)+
-1,1-Dichloropropene (10.830)+
-Dibromochloromethane (11.273)
-1,2-Dibromoethane (11.552)
-2-Hexanone (11.838)
-Chlorobenzene-D5 (12.188)+
m+p-Xylenes (12.438)
-Isopropylbenzene (13.439)
-P-Bromofluorobenzene (13.839)
-1,1,2,2-Tetrachloroethane (14.139)
-2-Chlorotoluene (14.254)
-4-Chlorotoluene (14.504)
-1,3,5-Trimethylbenzene (14.325)+
-1,2,4-Trimethylbenzene (14.904)
-sec-Butylbenzene (15.069)
-P-Isopropyltoluene (15.297)
-1,4-Dichlorobenzene-D4 (15.540)+
-N-Butylbenzene (15.969)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.220)
-1,3,5-Trichlorobenzene (17.628)
-Hexachlorobutadiene (18.728)+
-Naphthalene (19.350)
-1,2,3-Trichlorobenzene (19.686)
-Xylenes (total) (21.380)
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Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0223.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0223.D
Lab Smp Id: WG154861-4 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 14:53 MS Autotune Date: 03-APR-2014 08:54
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-4
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.986	1.994	(0.247)	334916	50.0000	48.9	
2 Chloromethane	50	2.236	2.230	(0.278)	441595	50.0000	51.1	
3 Vinyl chloride	62	2.329	2.330	(0.290)	356899	50.0000	48.4	
4 Bromomethane	94	2.729	2.730	(0.339)	156928	50.0000	49.6	
5 Chloroethane	64	2.879	2.880	(0.358)	150237	50.0000	48.4	
6 Trichlorofluoromethane	101	3.051	3.059	(0.379)	542251	50.0000	44.2	
7 Diethyl Ether	59	3.494	3.488	(0.435)	260074	50.0000	47.4	
8 Tertiary-butyl alcohol	59	5.360	5.347	(0.667)	153134	250.000	247	
9 1,1-Dichloroethene	96	3.751	3.753	(0.467)	232777	50.0000	47.7	
10 Carbon Disulfide	76	3.787	3.788	(0.471)	724568	50.0000	48.8	
11 Freon-113	151	3.816	3.817	(0.475)	163598	50.0000	45.8	
12 Iodomethane	142	3.959	3.967	(0.492)	132904	50.0000	44.9	
13 Acrolein	56	4.273	4.274	(0.531)	318007	250.000	251	
14 Methylene Chloride	84	4.652	4.653	(0.579)	302119	50.0000	49.1	
15 Acetone	43	4.752	4.753	(0.591)	648279	250.000	253	
16 Isobutyl Alcohol	43	8.255	8.256	(1.027)	329186	1000.00	957	
17 trans-1,2-Dichloroethene	96	4.916	4.925	(0.612)	263272	50.0000	46.5	
18 Allyl Chloride	41	4.473	4.482	(0.556)	497641	50.0000	52.2	
19 Methyl tert-butyl ether	73	5.131	5.132	(0.638)	1384684	100.000	104	
20 Acetonitrile	39	5.545	5.540	(0.690)	125989	500.000	476	
21 Di-isopropyl ether	45	5.789	5.790	(0.720)	998907	50.0000	52.4	
22 Chloroprene	53	5.910	5.918	(0.735)	477005	50.0000	52.1	
23 Propionitrile	54	7.969	7.970	(0.991)	627153	500.000	490	
24 Methacrylonitrile	41	7.990	7.991	(0.994)	2226928	500.000	484	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0223.D
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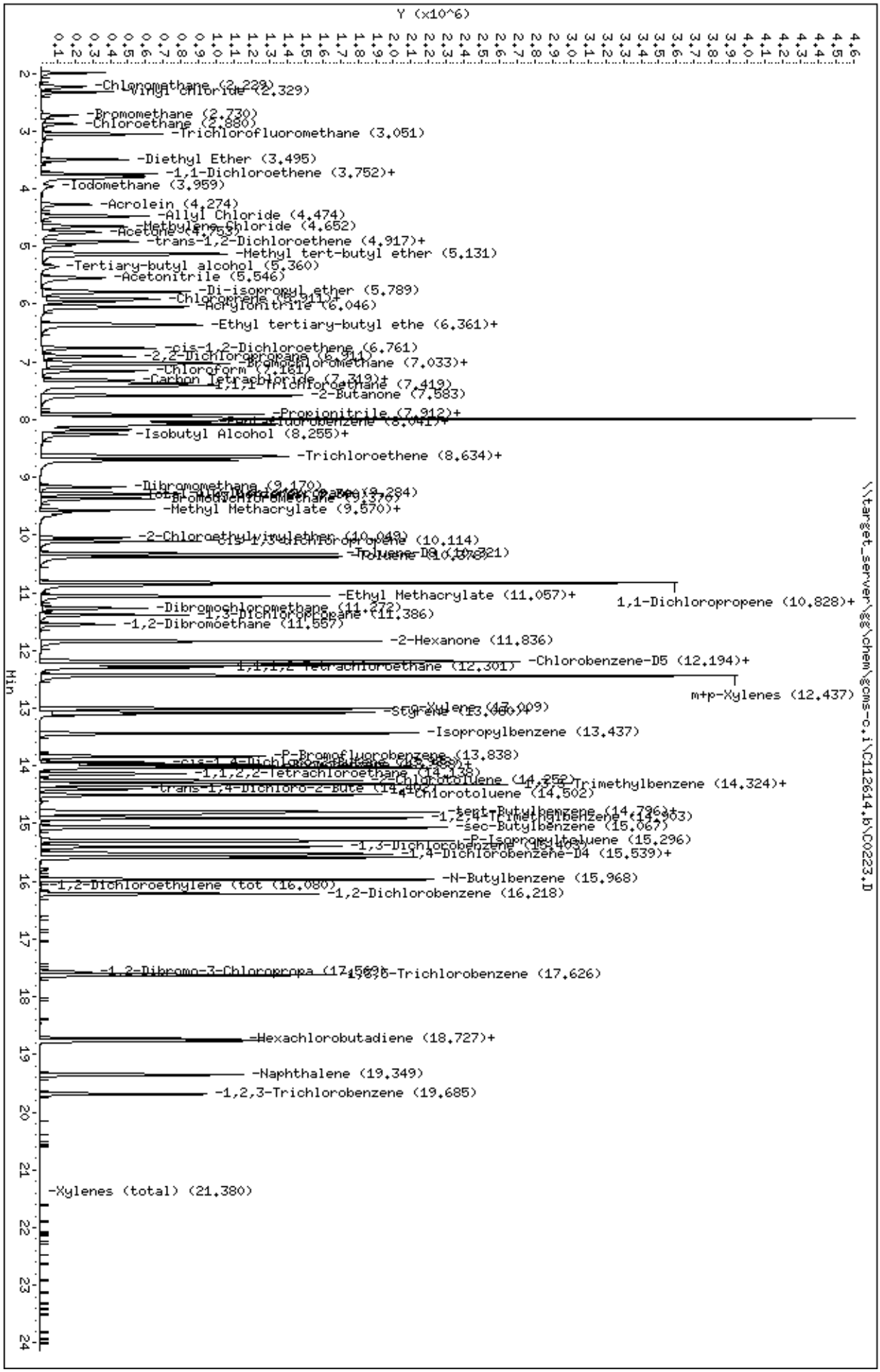
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.953	5.954	(0.740)	516396	50.0000	48.9	
	26 Acrylonitrile	52	6.046	6.047	(0.752)	673348	250.000	248	
	27 Ethyl tertiary-butyl ether	59	6.353	6.354	(0.790)	844962	50.0000	54.8	
	28 Vinyl Acetate	43	6.375	6.376	(0.732)	776364	50.0000	55.1	
	29 cis-1,2-Dichloroethene	96	6.761	6.762	(0.841)	304063	50.0000	47.9	
	31 Methyl Methacrylate	41	9.570	9.571	(1.099)	312563	50.0000	49.2	
	32 2,2-Dichloropropane	77	6.911	6.912	(0.860)	382477	50.0000	50.7	
	33 Bromochloromethane	128	7.039	7.041	(0.876)	129438	50.0000	45.3	
	34 Chloroform	83	7.161	7.162	(0.891)	509885	50.0000	47.7	
	35 Carbon Tetrachloride	117	7.318	7.319	(0.841)	363527	50.0000	51.7	
	36 Tetrahydrofuran	42	7.361	7.362	(0.916)	578777	250.000	260	
$	37 Dibromofluoromethane	113	7.404	7.405	(0.921)	286961	50.0000	50.6	
	38 1,1,1-Trichloroethane	97	7.418	7.419	(0.923)	446439	50.0000	49.4	
	39 1,1-Dichloropropene	75	10.871	10.872	(1.249)	411885	50.0000	53.0	
	40 2-Butanone	43	7.583	7.584	(0.943)	947439	250.000	266	
	41 Benzene	78	7.911	7.913	(0.909)	1129992	50.0000	50.8	
*	42 Pentafluorobenzene	168	8.040	8.041	(1.000)	520134	50.0000		
	43 Cyclohexane	56	7.025	7.026	(0.874)	467770	50.0000	50.3	
	44 Ethyl Methacrylate	69	11.064	11.058	(1.271)	394596	50.0000	48.2	
$	45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	333300	50.0000	46.3	
	46 Tertiary-amyl methyl ether	73	8.083	8.084	(1.005)	689818	50.0000	52.9	
	47 1,2-Dichloroethane	62	8.176	8.177	(0.939)	383558	50.0000	47.6	
	48 Trichloroethene	95	8.655	8.656	(0.994)	285552	50.0000	50.0	
*	49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	828322	50.0000		
	50 Dibromomethane	93	9.170	9.164	(1.053)	182453	50.0000	48.1	
	51 1,2-Dichloropropane	63	9.284	9.285	(1.067)	288019	50.0000	51.1	
	52 Bromodichloromethane	83	9.370	9.371	(1.076)	400138	50.0000	52.4	
	53 cis-1,3-dichloropropene	75	10.113	10.114	(1.162)	486352	50.0000	54.8	
	54 1,4-Dioxane	88	9.613	9.614	(1.104)	127050	1000.00	1160	
$	55 Toluene-D8	98	10.320	10.322	(1.186)	1024973	50.0000	53.7	
	56 2-Chloroethylvinylether	63	10.049	10.050	(1.154)	200257	50.0000	50.7	
	57 Toluene	92	10.378	10.379	(1.192)	723142	50.0000	51.9	
	58 4-methyl-2-pentanone	43	10.828	10.829	(1.244)	1700805	250.000	266	
	59 Tetrachloroethene	164	10.821	10.822	(0.887)	262663	50.0000	50.5	
	60 trans-1,3-Dichloropropene	75	10.871	10.872	(1.249)	411885	50.0000	53.0	
	61 1,1,2-Trichloroethane	83	11.057	11.058	(1.270)	228506	50.0000	49.8	
	62 Dibromochloromethane	129	11.271	11.272	(0.924)	314494	50.0000	54.7	
	63 1,3-Dichloropropane	76	11.385	11.387	(0.934)	473373	50.0000	52.0	
	64 1,2-Dibromoethane	107	11.557	11.551	(1.328)	293478	50.0000	51.5	
	65 2-Hexanone	43	11.836	11.837	(0.971)	1313827	250.000	271	
*	66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	837594	50.0000		
	67 Chlorobenzene	112	12.215	12.216	(1.002)	852351	50.0000	49.8	
	152 1-Chlorohexane	91	12.186	12.187	(0.999)	469664	50.0000	50.0	
	68 Ethylbenzene	106	12.250	12.251	(1.005)	451030	50.0000	50.8	
	69 1,1,1,2-Tetrachloroethane	131	12.300	12.294	(1.009)	299653	50.0000	53.0	
	71 m+p-Xylenes	106	12.436	12.437	(1.020)	1157818	100.000	106	
	72 o-Xylene	106	13.008	13.009	(1.067)	586851	50.0000	54.8	
	73 Styrene	104	13.079	13.081	(1.073)	917510	50.0000	56.4	
	74 Bromoform	173	13.115	13.116	(1.076)	219440	50.0000	49.2	
	75 Isopropylbenzene	105	13.437	13.438	(0.866)	1481543	50.0000	52.6	
$	76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	440076	50.0000	53.5	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.938	(0.898)	163761	50.0000	51.9	
	78 trans-1,4-Dichloro-2-Butene	53	14.402	14.403	(0.928)	132477	50.0000	50.9	
	79 Bromobenzene	156	13.987	13.988	(0.901)	381136	50.0000	50.2	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0223.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	80 N-Propylbenzene	91	14.030	14.031	(0.904)	1813817	50.0000	51.4	
	81 1,1,2,2-Tetrachloroethane	83	14.137	14.139	(0.911)	441026	50.0000	49.3	
	82 1,3,5-Trimethylbenzene	105	14.323	14.317	(0.923)	1302789	50.0000	53.3	
	83 2-Chlorotoluene	91	14.259	14.253	(0.919)	1121487	50.0000	51.5	
	84 1,2,3-Trichloropropane	75	14.338	14.332	(0.924)	354316	50.0000	50.0	
	85 4-Chlorotoluene	91	14.502	14.503	(0.935)	1158730	50.0000	51.3	
	86 tert-Butylbenzene	119	14.795	14.796	(0.953)	1376373	50.0000	53.0	
	87 Pentachloroethane	117	14.824	14.825	(0.955)	301315	50.0000	52.0	
	88 1,2,4-Trimethylbenzene	105	14.902	14.903	(0.960)	1271287	50.0000	53.4	
	89 P-Isopropyltoluene	119	15.295	15.297	(0.986)	1436989	50.0000	54.1	
	90 1,3-Dichlorobenzene	146	15.403	15.404	(0.993)	763479	50.0000	49.3	
*	91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	470887	50.0000		
	92 1,4-Dichlorobenzene	146	15.546	15.547	(1.002)	744790	50.0000	47.3	
	93 N-Butylbenzene	91	15.967	15.968	(1.029)	1381691	50.0000	52.8	
	94 sec-Butylbenzene	105	15.067	15.068	(0.971)	1752912	50.0000	51.9	
	95 1,2-Dichlorobenzene	146	16.217	16.219	(1.045)	704154	50.0000	50.3	
	96 1,2-Dibromo-3-Chloropropane	75	17.568	17.570	(1.132)	77856	50.0000	47.0	
	97 1,3,5-Trichlorobenzene	180	17.626	17.627	(1.136)	590106	50.0000	50.6	
	98 Hexachlorobutadiene	225	18.726	18.728	(1.207)	236792	50.0000	45.3	
	99 1,2,4-Trichlorobenzene	180	18.762	18.763	(1.209)	421031	50.0000	51.5	
	100 1,2,3-Trimethylbenzene	105	15.588	15.590	(1.005)	1324244	50.0000	51.7	
	101 Naphthalene	128	19.355	19.349	(1.247)	1032041	50.0000	55.5	
	102 1,2,3-Trichlorobenzene	180	19.684	19.685	(1.269)	334045	50.0000	51.5	
	103 Methyl Acetate	43	4.981	4.975	(0.620)	296659	50.0000	47.6	
	104 Methylcyclohexane	83	8.633	8.635	(1.074)	528005	50.0000	52.4	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0223.D
Date : 26-NOV-2014 14:53
Client ID: Initial Calibration
Sample Info: WG154861-4
Purge Volume: 5.0
Column phase: RTX-VMS

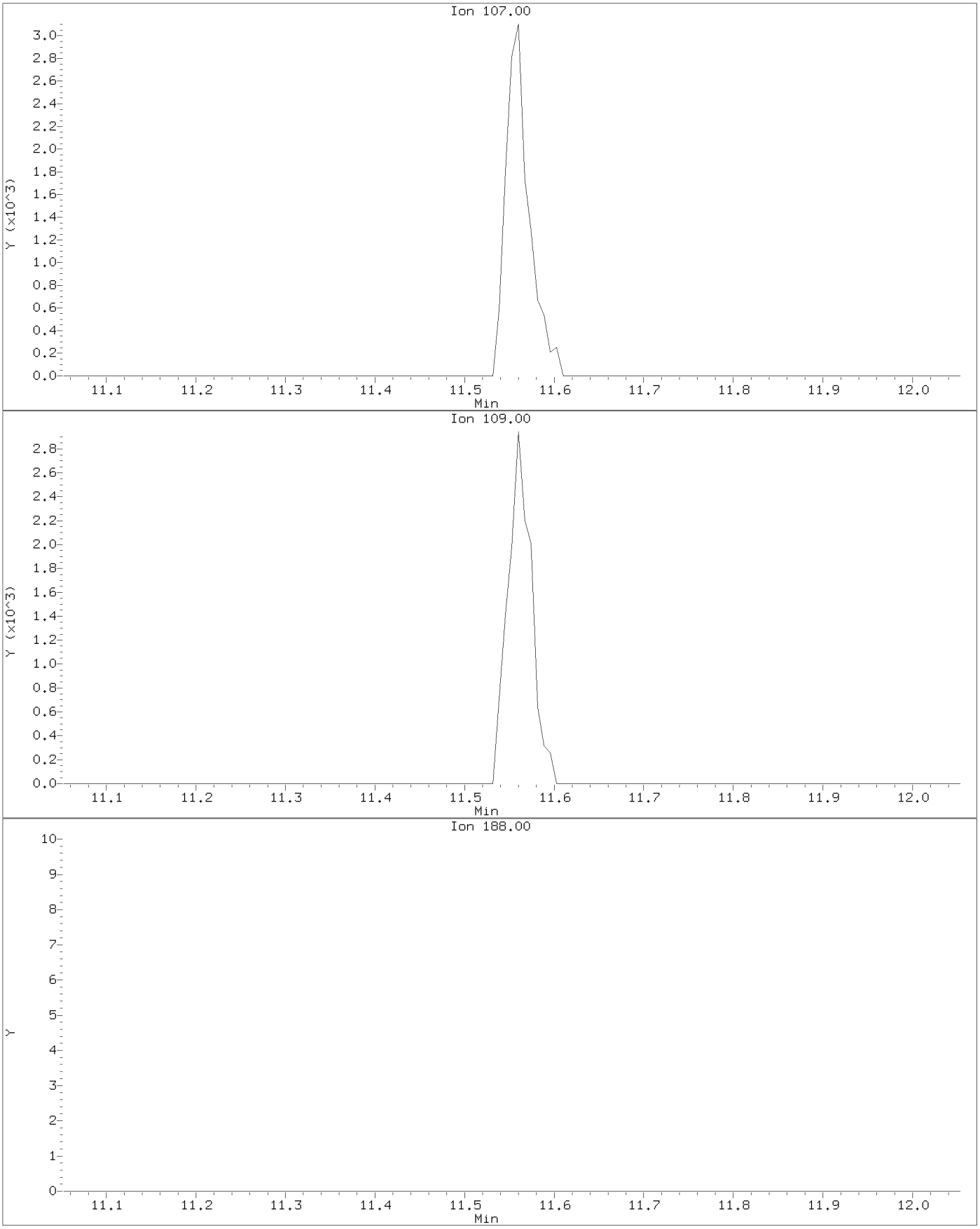
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Injection Date: 26-NOV-2014 13:18
Instrument: gcms-c.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

BEFORE MANUAL INTEGRATION



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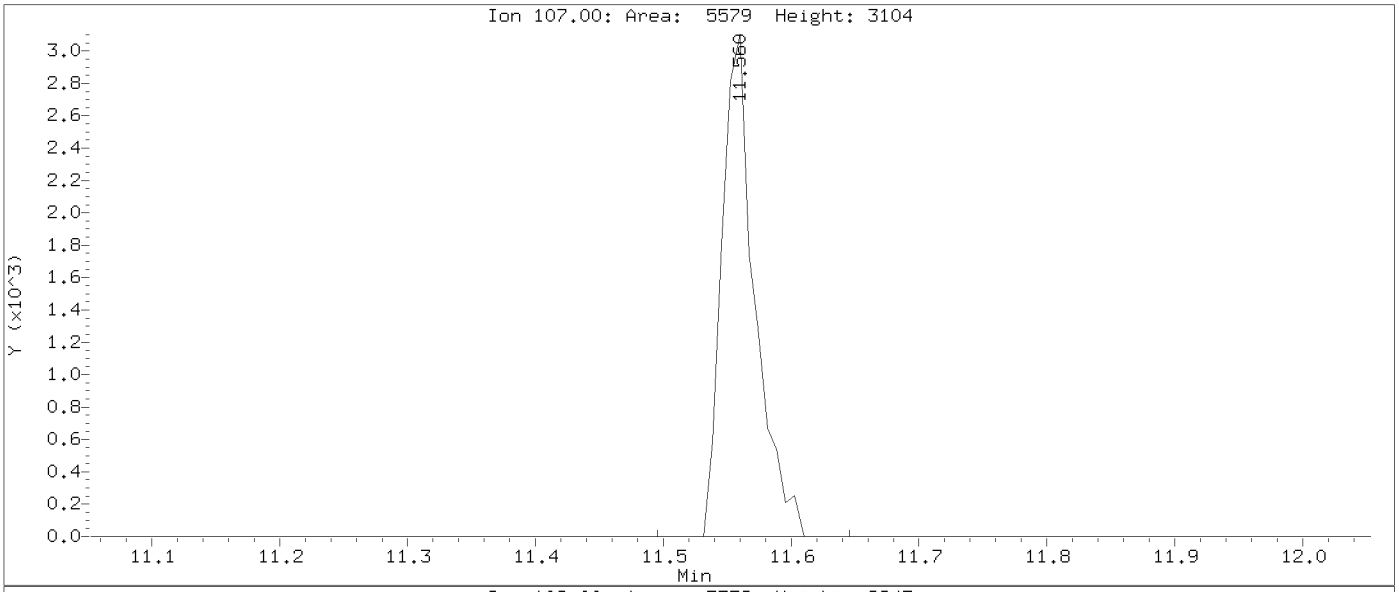
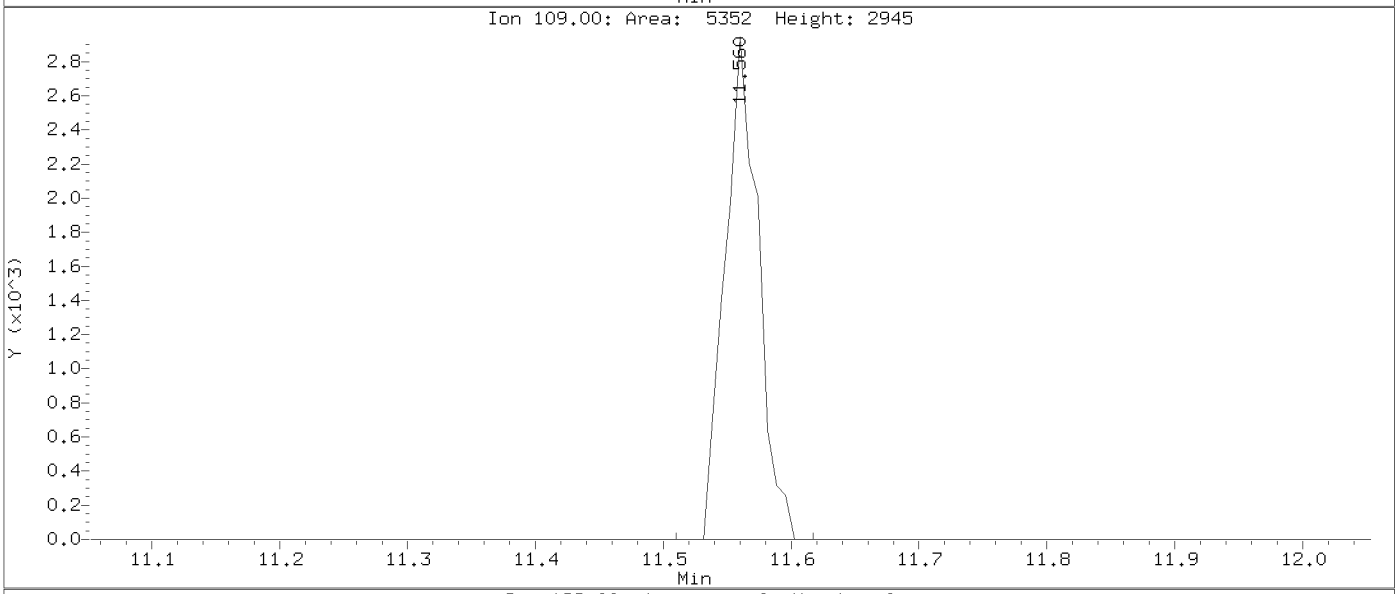
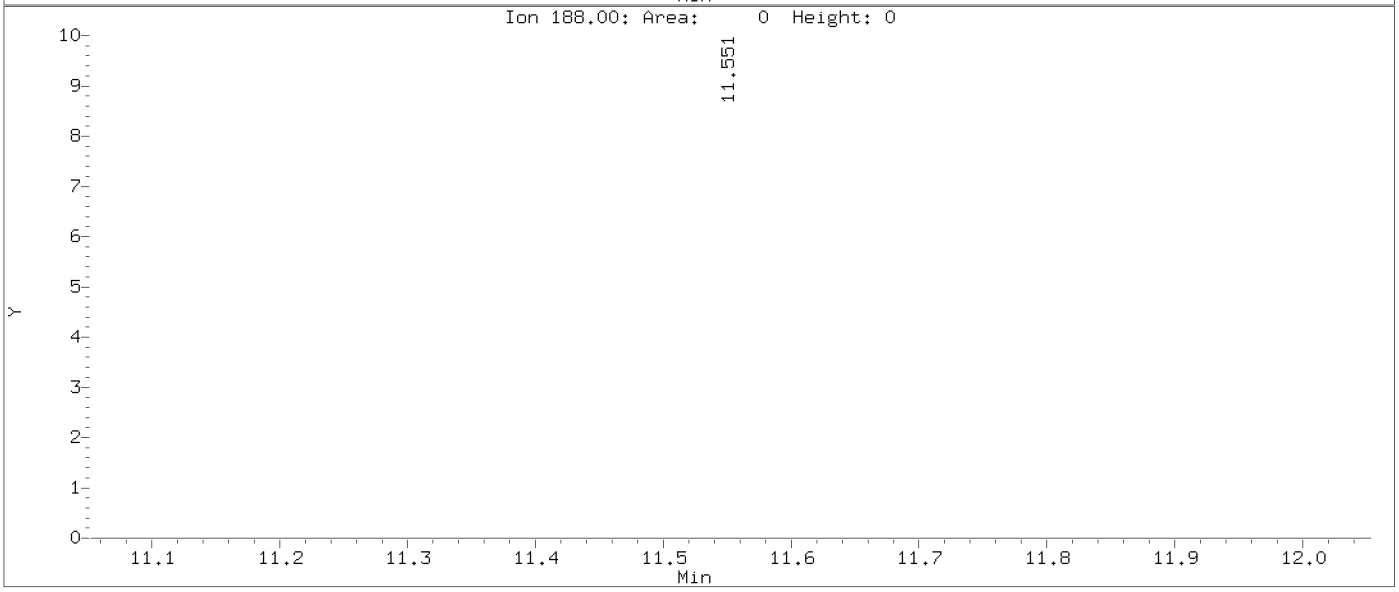
Injection Date: 26-NOV-2014 13:18
Instrument: gcms-c.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

AFTER MANUAL INTEGRATION







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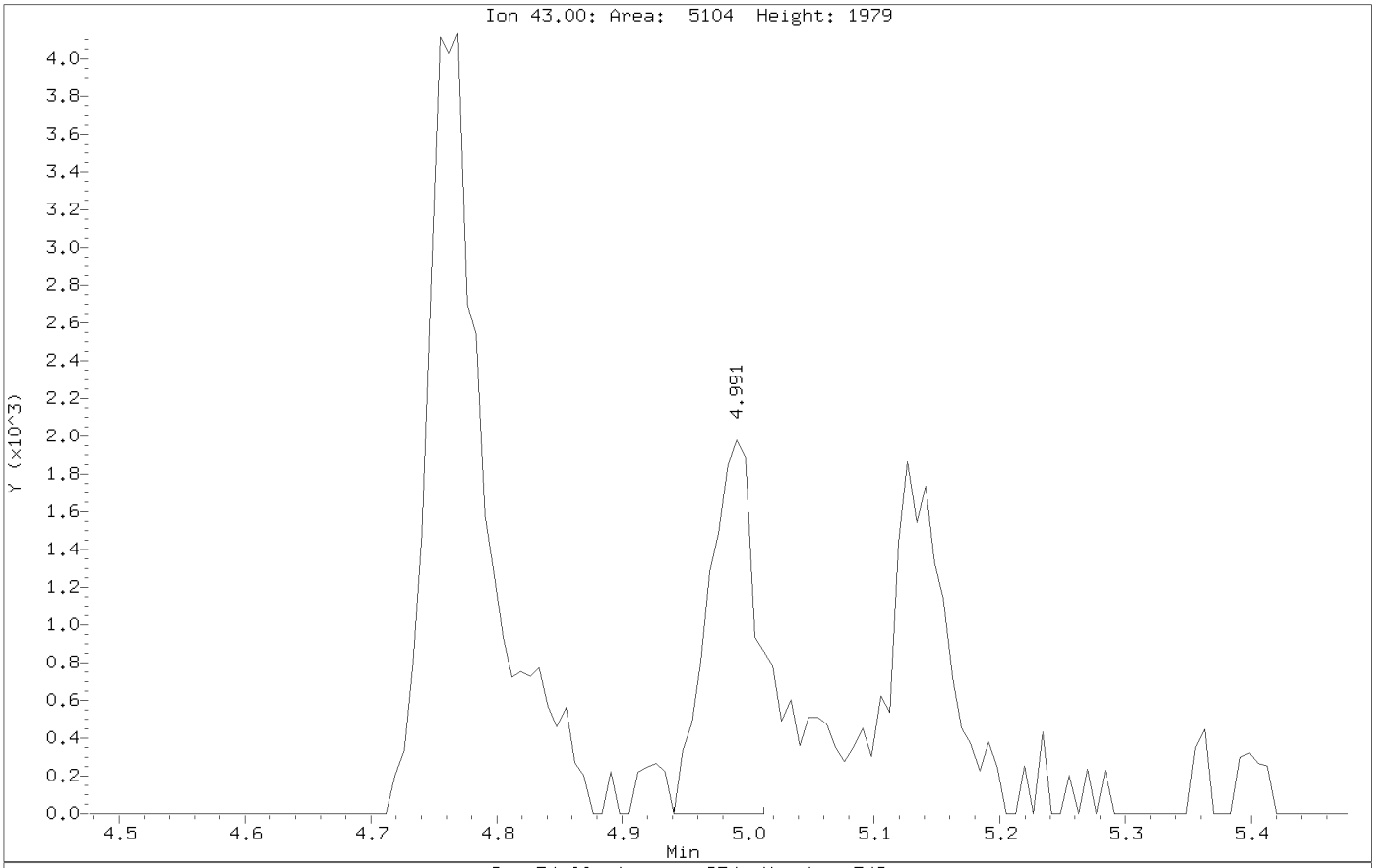
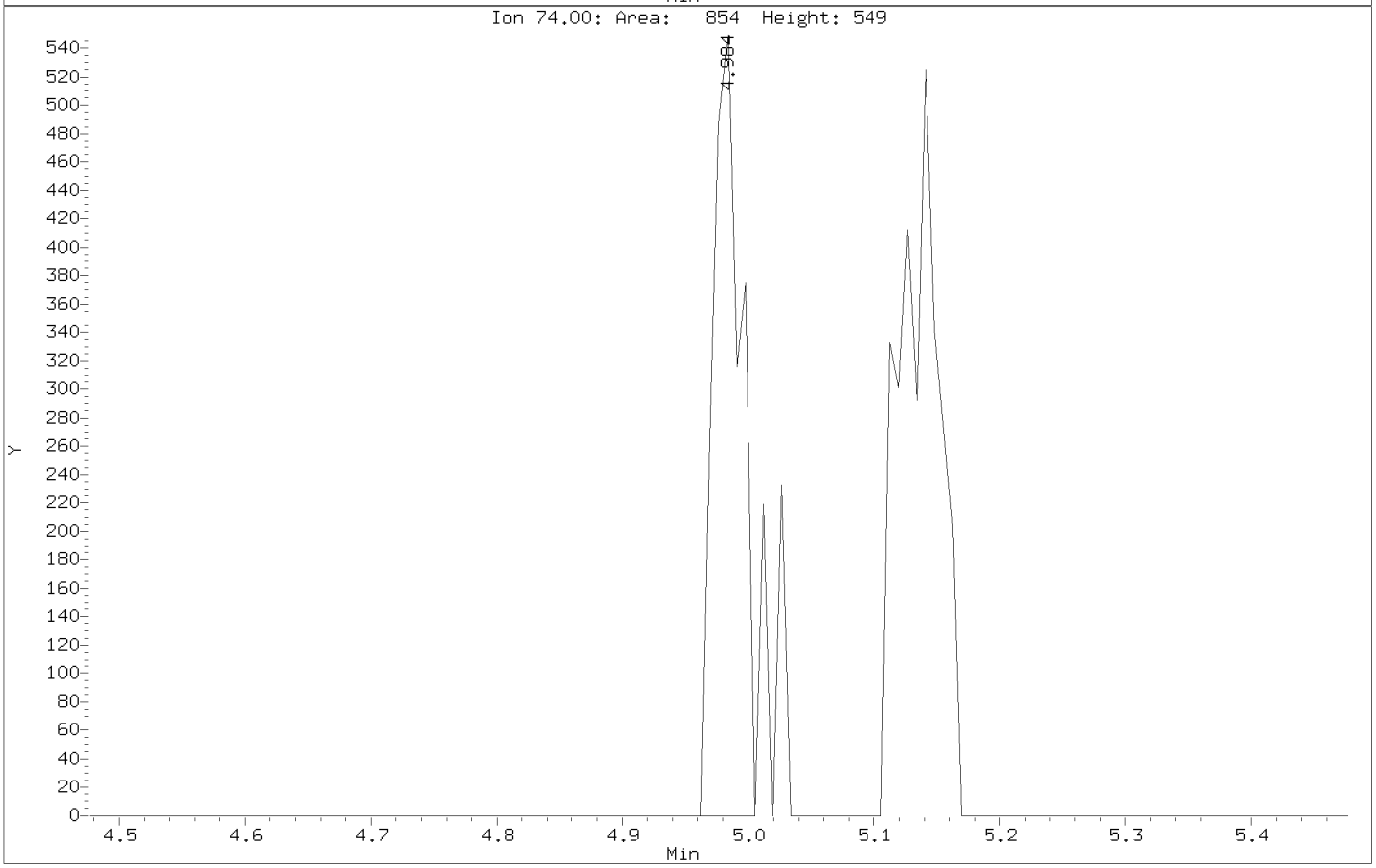
Injection Date: 26-NOV-2014 13:18
Instrument: gcms-c.i
Client Sample ID:

Compound: Methyl Acetate
CAS Number: 79-20-9

BEFORE MANUAL INTEGRATION





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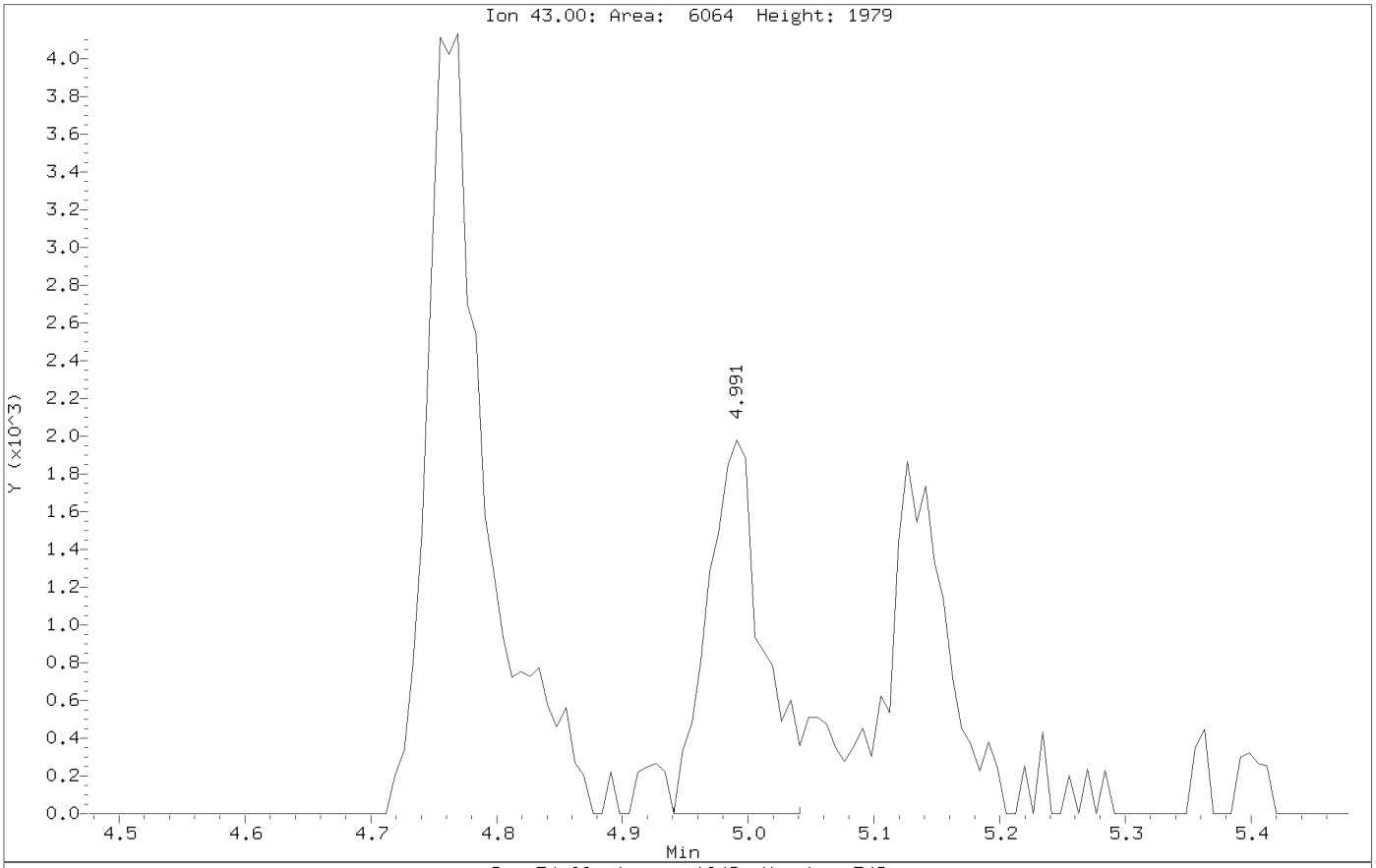
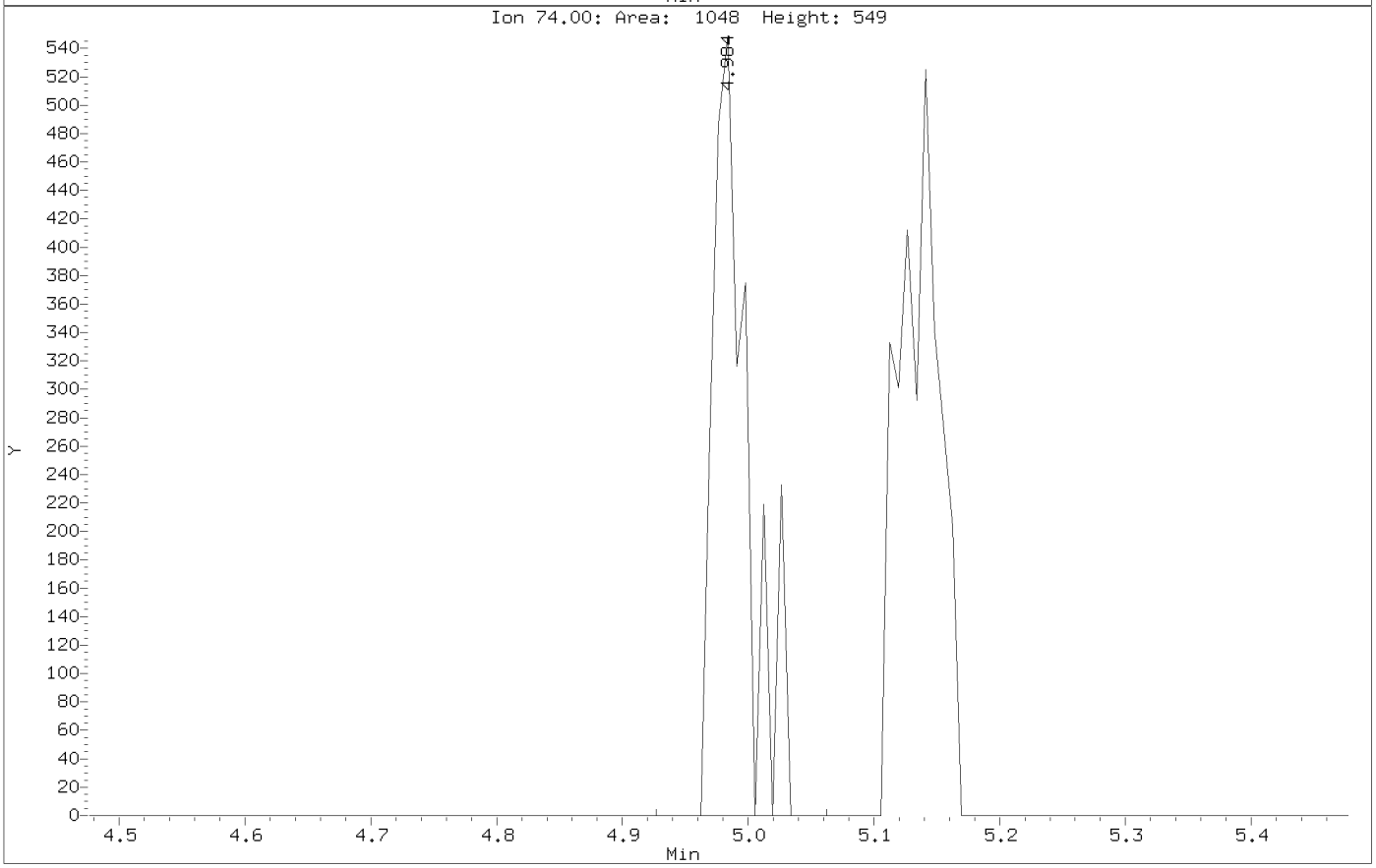
Injection Date: 26-NOV-2014 13:18
Instrument: gcms-c.i
Client Sample ID:

Compound: Methyl Acetate
CAS Number: 79-20-9

AFTER MANUAL INTEGRATION





Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Lab Smp Id: WG154861-7 Client Smp ID: WG154861-LCS
Inj Date : 26-NOV-2014 15:57 MS Autotune Date: 03-APR-2014 08:54
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-7,TH0145
Misc Info : WG154861,WG154861-4,TH0145-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.989	1.994	(0.247)	415465	57.9945	58.0	
2 Chloromethane	50	2.232	2.230	(0.278)	479336	53.1712	53.2	
3 Vinyl chloride	62	2.325	2.330	(0.289)	403578	52.3421	52.3	
4 Bromomethane	94	2.725	2.730	(0.339)	165165	49.9524	50.0	
5 Chloroethane	64	2.882	2.880	(0.358)	143702	43.9800	44.0	
6 Trichlorofluoromethane	101	3.054	3.059	(0.380)	562059	43.8032	43.8	
7 Diethyl Ether	59	3.497	3.488	(0.435)	263661	45.9582	46.0	
8 Tertiary-butyl alcohol	59	5.355	5.347	(0.666)	145268	225.856	226	
9 1,1-Dichloroethene	96	3.747	3.753	(0.466)	256308	50.2673	50.3	
10 Carbon Disulfide	76	3.783	3.788	(0.470)	976465	63.1586	63.2(R)	
11 Freon-113	151	3.811	3.817	(0.474)	172329	46.1836	46.2	
12 Iodomethane	142	3.954	3.967	(0.492)	171537	55.4657	55.5	
13 Acrolein	56	4.276	4.274	(0.532)	323564	244.723	245	
14 Methylene Chloride	84	4.655	4.653	(0.579)	327924	50.9846	51.0	
15 Acetone	43	4.762	4.753	(0.592)	138144	51.5798	51.6	
16 Isobutyl Alcohol	43	8.257	8.256	(1.027)	317501	887.143	887	
17 trans-1,2-Dichloroethene	96	4.919	4.925	(0.612)	283074	47.8233	47.8	
18 Allyl Chloride	41	4.476	4.482	(0.557)	482589	48.4370	48.4	
19 Methyl tert-butyl ether	73	5.134	5.132	(0.638)	1507025	108.282	108	
20 Acetonitrile	39	5.548	5.540	(0.690)	132867	479.947	480	
21 Di-isopropyl ether	45	5.791	5.790	(0.720)	1016697	51.0252	51.0	
22 Chloroprene	53	5.913	5.918	(0.735)	484669	50.6077	50.6	
23 Propionitrile	54	7.972	7.970	(0.991)	615837	460.172	460	
24 Methacrylonitrile	41	7.993	7.991	(0.994)	2253241	465.507	466	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

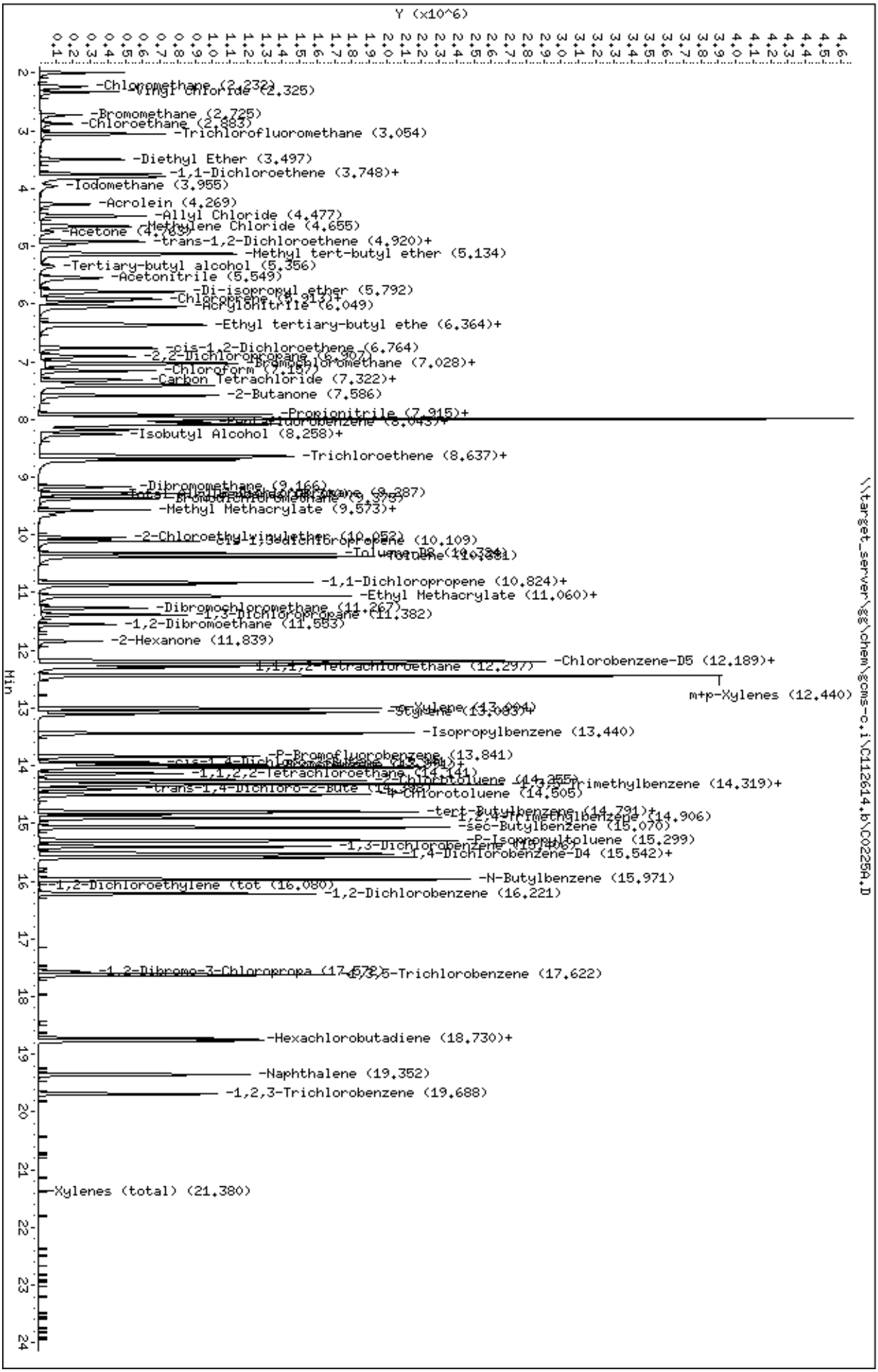
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.949	5.954	(0.740)	568514	51.5366	51.5	
	26 Acrylonitrile	52	6.049	6.047	(0.752)	670522	236.194	236	
	27 Ethyl tertiary-butyl ether	59	6.356	6.354	(0.790)	843128	52.2991	52.3	
	28 Vinyl Acetate	43	6.378	6.376	(0.732)	830962	56.6485	56.6	
	29 cis-1,2-Dichloroethene	96	6.763	6.762	(0.841)	324027	48.8052	48.8	
M	30 1,2-Dichloroethylene (total)	96				607101	96.6286	96.6	
	31 Methyl Methacrylate	41	9.573	9.571	(1.099)	310619	47.0808	47.1	
	32 2,2-Dichloropropane	77	6.906	6.912	(0.859)	394737	50.0850	50.1	
	33 Bromochloromethane	128	7.042	7.041	(0.876)	136036	45.5215	45.5	
	34 Chloroform	83	7.157	7.162	(0.890)	543909	48.6414	48.6	
	35 Carbon Tetrachloride	117	7.321	7.319	(0.841)	405446	55.3962	55.4	
	36 Tetrahydrofuran	42	7.371	7.362	(0.916)	113554	48.7436	48.7	
$	37 Dibromofluoromethane	113	7.407	7.405	(0.921)	280231	47.2224	47.2	
	38 1,1,1-Trichloroethane	97	7.414	7.419	(0.922)	474002	50.1426	50.1	
	39 1,1-Dichloropropene	75	10.866	10.872	(1.248)	441875	54.6416	54.6	
	40 2-Butanone	43	7.586	7.584	(0.943)	187089	50.3414	50.3	
	41 Benzene	78	7.914	7.913	(0.909)	1198167	51.7986	51.8	
*	42 Pentafluorobenzene	168	8.043	8.041	(1.000)	543804	50.0000		
	43 Cyclohexane	56	7.028	7.026	(0.874)	502456	51.7230	51.7	
	44 Ethyl Methacrylate	69	11.059	11.058	(1.270)	405882	47.6626	47.7	
$	45 1,2-Dichloroethane-D4	65	8.093	8.090	(1.006)	334917	44.5188	44.5	
	46 Tertiary-amyl methyl ether	73	8.086	8.084	(1.005)	719562	52.7900	52.8	
	47 1,2-Dichloroethane	62	8.179	8.177	(0.939)	407530	48.5634	48.6	
	48 Trichloroethene	95	8.651	8.656	(0.993)	298373	50.1761	50.2	
*	49 1,4-Difluorobenzene	114	8.708	8.706	(1.000)	862273	50.0000		
	50 Dibromomethane	93	9.165	9.164	(1.053)	192435	48.7342	48.7	
	51 1,2-Dichloropropane	63	9.287	9.285	(1.066)	306799	52.3106	52.3	
	52 Bromodichloromethane	83	9.373	9.371	(1.076)	430970	54.2154	54.2	
	53 cis-1,3-dichloropropene	75	10.109	10.114	(1.161)	480993	52.0515	52.0	
	54 1,4-Dioxane	88	9.616	9.614	(1.104)	109846	967.642	968	
$	55 Toluene-D8	98	10.323	10.322	(1.186)	1034200	52.0797	52.1	
	56 2-Chloroethylvinylether	63	10.052	10.050	(1.154)	193795	47.2070	47.2	
	57 Toluene	92	10.380	10.379	(1.192)	763282	52.6403	52.6	
	58 4-methyl-2-pentanone	43	10.831	10.829	(1.244)	358766	50.6145	50.6	
	59 Tetrachloroethene	164	10.824	10.822	(0.888)	272193	50.7929	50.8	
	60 trans-1,3-Dichloropropene	75	10.866	10.872	(1.248)	441875	54.6416	54.6	
	61 1,1,2-Trichloroethane	83	11.059	11.058	(1.270)	240698	50.4205	50.4	
	62 Dibromochloromethane	129	11.267	11.272	(0.924)	328760	55.5274	55.5	
	63 1,3-Dichloropropane	76	11.381	11.387	(0.934)	508122	54.1706	54.2	
	64 1,2-Dibromoethane	107	11.553	11.551	(1.327)	309252	52.1219	52.1	
	65 2-Hexanone	43	11.839	11.837	(0.971)	263372	48.8716	48.9	
*	66 Chlorobenzene-D5	117	12.189	12.194	(1.000)	862738	50.0000		
	67 Chlorobenzene	112	12.210	12.216	(1.002)	869167	49.2961	49.3	
	152 1-Chlorohexane	91	12.182	12.187	(0.999)	492501	50.9527	51.0	
	68 Ethylbenzene	106	12.246	12.251	(1.005)	475481	51.9972	52.0	
	69 1,1,1,2-Tetrachloroethane	131	12.296	12.294	(1.009)	315094	54.0792	54.1	
M	70 Xylenes (total)	106				1777937	159.129	159	
	71 m+p-Xylenes	106	12.439	12.437	(1.021)	1192115	106.049	106	
	72 o-Xylene	106	13.004	13.009	(1.067)	585822	53.0805	53.1	
	73 Styrene	104	13.082	13.081	(1.073)	965679	57.6448	57.6	
	74 Bromoform	173	13.118	13.116	(1.076)	225392	49.0174	49.0	
	75 Isopropylbenzene	105	13.440	13.438	(0.866)	1515555	51.9014	51.9	
$	76 P-Bromofluorobenzene	95	13.840	13.838	(1.589)	440366	51.3931	51.4	
	77 cis-1,4-Dichloro-2-Butene	53	13.940	13.938	(0.898)	156696	47.9089	47.9	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.398	14.403	(0.928)	127109	47.0813	47.1	
	79 Bromobenzene	156	13.990	13.988	(0.901)	400174	50.7990	50.8	
	80 N-Propylbenzene	91	14.026	14.031	(0.904)	1858419	50.8136	50.8	
	81 1,1,2,2-Tetrachloroethane	83	14.140	14.139	(0.911)	461283	49.7440	49.7	
	82 1,3,5-Trimethylbenzene	105	14.319	14.317	(0.923)	1321018	52.1195	52.1	
	83 2-Chlorotoluene	91	14.255	14.253	(0.918)	1118218	49.5359	49.5	
	84 1,2,3-Trichloropropane	75	14.333	14.332	(0.924)	365056	49.6685	49.7	
	85 4-Chlorotoluene	91	14.505	14.503	(0.935)	1172816	50.0695	50.1	
	86 tert-Butylbenzene	119	14.798	14.796	(0.953)	1379981	51.2453	51.2	
	87 Pentachloroethane	117	14.826	14.825	(0.955)	295712	49.2326	49.2	
	88 1,2,4-Trimethylbenzene	105	14.905	14.903	(0.960)	1337488	54.2119	54.2	
	89 P-Isopropyltoluene	119	15.298	15.297	(0.986)	1544971	56.0868	56.1	
	90 1,3-Dichlorobenzene	146	15.405	15.404	(0.993)	776144	48.3029	48.3	
*	91 1,4-Dichlorobenzene-D4	152	15.520	15.518	(1.000)	488401	50.0000		
	92 1,4-Dichlorobenzene	146	15.541	15.547	(1.001)	779849	47.7871	47.8	
	93 N-Butylbenzene	91	15.970	15.968	(1.029)	1476059	54.3744	54.4	
	94 sec-Butylbenzene	105	15.069	15.068	(0.971)	1789868	51.0590	51.0	
	95 1,2-Dichlorobenzene	146	16.220	16.219	(1.045)	717237	49.3585	49.4	
	96 1,2-Dibromo-3-Chloropropane	75	17.564	17.570	(1.132)	83095	48.2780	48.3	
	97 1,3,5-Trichlorobenzene	180	17.621	17.627	(1.135)	586426	48.4538	48.4	
	98 Hexachlorobutadiene	225	18.729	18.728	(1.207)	265172	48.9381	48.9	
	99 1,2,4-Trichlorobenzene	180	18.765	18.763	(1.209)	448639	52.9184	52.9	
	100 1,2,3-Trimethylbenzene	105	15.584	15.590	(1.004)	1332869	50.2116	50.2	
	101 Naphthalene	128	19.351	19.349	(1.247)	1050544	54.4884	54.5	
	102 1,2,3-Trichlorobenzene	180	19.687	19.685	(1.269)	355660	52.9127	52.9	
	103 Methyl Acetate	43	4.976	4.975	(0.619)	307593	47.1974	47.2	
	104 Methylcyclohexane	83	8.629	8.635	(1.073)	531235	50.3779	50.4	
M	153 Total Alkylbenzenes	100				10707804	369.910	370	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.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Date : 26-NOV-2014 15:57
Client ID: WG154861-LCS
Sample Info: WG154861-7,TH0145
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Y (x10^6)
Min
-Chloromethane (2.232)
-Vinyl Chloride (2.325)
-Bromomethane (2.725)
-Chloroethane (2.883)
-Trichlorofluoromethane (3.054)
-Diethyl Ether (3.497)
-1,1-Dichloroethene (3.748)+
-Iodomethane (3.955)
-Acrolein (4.269)
-Allyl Chloride (4.477)
-Methylene Chloride (4.655)
-Acetone (4.763)
-trans-1,2-Dichloroethene (4.920)+
-Methyl tert-butyl ether (5.134)
-Tertiary-butyl alcohol (5.356)
-Acetonitrile (5.549)
-Di-isopropyl ether (5.792)
-Chloroprene (5.912)+
-Acrylonitrile (6.049)
-Ethyl tertiary-butyl ethe (6.364)+
-cis-1,2-Dichloroethene (6.764)
-2,2-Dichloropropane (6.907)
-Bromochloromethane (7.028)+
-Chloroform (7.157)
-Carbon Tetrachloride (7.322)+
-2-Butanone (7.586)
-Propionitrile (7.915)+
-Isobutyl Alcohol (8.258)+
-Trichloroethene (8.637)+
-Dibromomethane (9.166)
-Methyl Methacrylate (9.573)+
-2-Chloroethylvinylether (10.052)
-Toluene-D8 (10.734)
-1,1-Dichloropropene (10.824)+
-Ethyl Methacrylate (11.060)+
-Dibromochloromethane (11.267)
-1,3-Dichloropropane (11.382)
-1,2-Dibromoethane (11.553)
-2-Hexanone (11.839)
-Chlorobenzene-D5 (12.189)+
1,1,1,2-Tetrachloroethane (12.297)
m+p-Xylenes (12.440)
-o-Xylene (13.094)
-Isopropylbenzene (13.440)
-P-Bromofluorobenzene (13.841)
-1,1,2,2-Tetrachloroethane (14.141)
-2-Chlorotoluene (14.255)
-1,3,5-Trimethylbenzene (14.319)+
-4-Chlorotoluene (14.505)
-tert-Butylbenzene (14.791)+
-1,2,4-Trimethylbenzene (14.906)
-sec-Butylbenzene (15.070)
-P-Isopropyltoluene (15.299)
-1,4-Dichlorobenzene-D4 (15.542)+
-N-Butylbenzene (15.971)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.221)
-1,2,4,5-Trichlorobenzene (17.622)
-Hexachlorobutadiene (18.730)+
-Naphthalene (19.352)
-1,2,3-Trichlorobenzene (19.688)
-Xylenes (total) (21.380)

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: TH0715
Lab ID : WG156070-4
Analytical Date: 12/22/14 09:51
Lab File ID : C0669.D
Instrument ID: GCMS-C
Initial Calibration Date(s): 11/26/14 08:07 11/26/14 14:53
Column ID:

	Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1	Dichlorodifluoromethane	0.65868	0.69623	0.69623	0.010	5.70027	20.00000	Averaged	
2	Chloromethane	50.00000	53.05657	0.87962	0.100	6.11314	20.00000	Linear	
3	Vinyl chloride	0.70893	0.72138	0.72138	0.010	1.75635	20.00000	Averaged	
4	Bromomethane	50.00000	55.22043	0.33630	0.010	10.44086	20.00000	Linear	
5	Chloroethane	50.00000	41.15803	0.24853	0.010	-17.68395	20.00000	Linear	
6	Trichlorofluoromethane	1.17979	0.97596	0.97596	0.010	-17.27654	20.00000	Averaged	
9	1,1-Dichloroethene	0.46882	0.51237	0.51237	0.100	9.28973	20.00000	Averaged	
10	Carbon Disulfide	50.00000	51.44375	1.46662	0.010	2.88750	20.00000	Linear	
11	Freon-113	0.34308	0.36777	0.36777	0.010	7.19686	20.00000	Averaged	
14	Methylene Chloride	50.00000	53.96456	0.63779	0.010	7.92912	20.00000	Linear	
15	Acetone	0.24625	0.25617	0.25617	0.010	4.02855	20.00000	Averaged	
17	trans-1,2-Dichloroethene	0.54424	0.56205	0.56205	0.010	3.27348	20.00000	Averaged	
19	Methyl tert-butyl ether	1.27965	1.41538	1.41538	0.010	10.60654	20.00000	Averaged	
25	1,1-Dichloroethane	1.01427	1.02325	1.02325	0.100	0.88558	20.00000	Averaged	
29	cis-1,2-Dichloroethene	0.61044	0.63487	0.63487	0.010	4.00168	20.00000	Averaged	
30	1,2-Dichloroethylene (total	++++	1.19692	1.19692	0.010	++++	20.00000	Averaged	*
34	Chloroform	1.02813	1.06130	1.06130	0.010	3.22675	20.00000	Averaged	
35	Carbon Tetrachloride	0.42440	0.48568	0.48568	0.010	14.43784	20.00000	Averaged	
38	1,1,1-Trichloroethane	0.86916	0.93833	0.93833	0.010	7.95826	20.00000	Averaged	
40	2-Butanone	0.34170	0.35084	0.35084	0.010	2.67242	20.00000	Averaged	
41	Benzene	1.34130	1.39749	1.39749	0.010	4.18964	20.00000	Averaged	
43	Cyclohexane	0.89319	0.93598	0.93598	0.010	4.79145	20.00000	Averaged	
47	1,2-Dichloroethane	0.48660	0.45244	0.45244	0.010	-7.02184	20.00000	Averaged	
48	Trichloroethene	0.34482	0.35468	0.35468	0.010	2.85994	20.00000	Averaged	
51	1,2-Dichloropropane	0.34009	0.35089	0.35089	0.010	3.17624	20.00000	Averaged	
52	Bromodichloromethane	0.46095	0.49493	0.49493	0.010	7.37372	20.00000	Averaged	
53	cis-1,3-dichloropropene	0.53583	0.60609	0.60609	0.010	13.11191	20.00000	Averaged	
57	Toluene	0.84080	0.90151	0.90151	0.010	7.22119	20.00000	Averaged	
58	4-methyl-2-pentanone	250	245	0.37764	0.010	-2.13576	20.00000	Linear	
59	Tetrachloroethene	0.31057	0.33342	0.33342	0.010	7.35643	20.00000	Averaged	
60	trans-1,3-Dichloropropene	0.46892	0.50992	0.50992	0.010	8.74283	20.00000	Averaged	
61	1,1,2-Trichloroethane	0.27682	0.28214	0.28214	0.010	1.92171	20.00000	Averaged	
62	Dibromochloromethane	0.34313	0.38320	0.38320	0.010	11.67702	20.00000	Averaged	
64	1,2-Dibromoethane	0.34405	0.36236	0.36236	0.010	5.32149	20.00000	Averaged	
65	2-Hexanone	250	250	0.28946	0.010	0.03749	20.00000	Linear	
67	Chlorobenzene	1.02184	1.04357	1.04357	0.300	2.12656	20.00000	Averaged	
68	Ethylbenzene	0.52996	0.56159	0.56159	0.010	5.96746	20.00000	Averaged	
70	Xylenes (total)	++++	0.71157	0.71157	0.010	++++	20.00000	Averaged	*
71	m+p-Xylenes	0.65149	0.71283	0.71283	0.010	9.41627	20.00000	Averaged	
72	o-Xylene	0.63962	0.70904	0.70904	0.010	10.85297	20.00000	Averaged	
73	Styrene	0.97088	1.10291	1.10291	0.010	13.59910	20.00000	Averaged	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: TH0715
Lab ID : WG156070-4
Analytical Date: 12/22/14 09:51
Lab File ID : C0669.D
Instrument ID: GCMS-C
Initial Calibration Date(s): 11/26/14 08:07 11/26/14 14:53
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
74 Bromoform	50.00000	49.61552	0.26456	0.100	-0.76897	20.00000	Linear
75 Isopropylbenzene	2.98942	3.18625	3.18625	0.010	6.58436	20.00000	Averaged
81 1,1,2,2-Tetrachloroethane	0.94934	0.89672	0.89672	0.300	-5.54232	20.00000	Averaged
90 1,3-Dichlorobenzene	1.64499	1.66132	1.66132	0.010	0.99287	20.00000	Averaged
92 1,4-Dichlorobenzene	1.67068	1.57898	1.57898	0.010	-5.48895	20.00000	Averaged
95 1,2-Dichlorobenzene	1.48763	1.52021	1.52021	0.010	2.19042	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	50.00000	47.35113	0.16670	0.010	-5.29775	20.00000	Linear
99 1,2,4-Trichlorobenzene	0.86793	0.90254	0.90254	0.010	3.98771	20.00000	Averaged
103 Methyl Acetate	0.59922	0.53442	0.53442	0.010	-10.81479	20.00000	Averaged
104 Methylcyclohexane	0.96956	0.98624	0.98624	0.010	1.72006	20.00000	Averaged
37 Dibromofluoromethane	0.54563	0.52169	0.52169	0.010	-4.38691	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.69171	0.57949	0.57949	0.010	-16.22342	20.00000	Averaged
55 Toluene-D8	1.15149	1.16932	1.16932	0.010	1.54786	20.00000	Averaged
76 P-Bromofluorobenzene	0.49686	0.51665	0.51665	0.010	3.98317	20.00000	Averaged

*** = Compound out of QC criteria**

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sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0669.D
Report Date: 23-Dec-2014 14:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122214.b\C0669.D
Lab Smp Id: WG156070-4 Client Smp ID: ontinuing Calibrati
Inj Date : 22-DEC-2014 09:51 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG156070-4,TH0715
Misc Info : WG156070,WG154861-4,TH0715-7
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C122214.b\C826A26.m
Meth Date : 23-Dec-2014 14:19 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.992	1.994	(0.248)	368838	50.0000	52.8	
2 Chloromethane	50	2.235	2.230	(0.278)	465994	50.0000	53.0	
3 Vinyl chloride	62	2.328	2.330	(0.290)	382164	50.0000	50.9	
4 Bromomethane	94	2.728	2.730	(0.339)	178160	50.0000	55.2	
5 Chloroethane	64	2.879	2.880	(0.358)	131665	50.0000	41.2	
6 Trichlorofluoromethane	101	3.050	3.059	(0.379)	517031	50.0000	41.4	
7 Diethyl Ether	59	3.493	3.488	(0.435)	230375	50.0000	41.2	
8 Tertiary-butyl alcohol	59	5.352	5.347	(0.666)	147378	250.000	234	
9 1,1-Dichloroethene	96	3.751	3.753	(0.467)	271436	50.0000	54.6	
10 Carbon Disulfide	76	3.786	3.788	(0.471)	776967	50.0000	51.4	
11 Freon-113	151	3.815	3.817	(0.475)	194834	50.0000	53.6	
12 Iodomethane	142	3.958	3.967	(0.492)	258843	50.0000	85.9	
13 Acrolein	56	4.272	4.274	(0.531)	290327	250.000	225	
14 Methylene Chloride	84	4.651	4.653	(0.579)	337881	50.0000	54.0	
15 Acetone	43	4.758	4.753	(0.592)	678557	250.000	260	
16 Isobutyl Alcohol	43	8.254	8.256	(1.027)	290047	1000.00	835	
17 trans-1,2-Dichloroethene	96	4.916	4.925	(0.611)	297756	50.0000	51.6	
18 Allyl Chloride	41	4.473	4.482	(0.556)	491421	50.0000	50.6	
19 Methyl tert-butyl ether	73	5.130	5.132	(0.638)	1499637	100.000	111	
20 Acetonitrile	39	5.545	5.540	(0.690)	126699	500.000	470	
21 Di-isopropyl ether	45	5.788	5.790	(0.720)	955310	50.0000	49.2	
22 Chloroprene	53	5.909	5.918	(0.735)	466306	50.0000	50.0	
23 Propionitrile	54	7.968	7.970	(0.991)	577389	500.000	443	
24 Methacrylonitrile	41	7.989	7.991	(0.994)	2016697	500.000	421	

Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0669.D
Report Date: 23-Dec-2014 14:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.945	5.954	(0.740)	542083	50.0000	50.4	
	26 Acrylonitrile	52	6.045	6.047	(0.752)	611180	250.000	221	
	27 Ethyl tertiary-butyl ether	59	6.352	6.354	(0.790)	816047	50.0000	52.0	
	28 Vinyl Acetate	43	6.374	6.376	(0.732)	759911	50.0000	52.0	
	29 cis-1,2-Dichloroethene	96	6.760	6.762	(0.841)	336331	50.0000	52.0	
	31 Methyl Methacrylate	41	9.569	9.571	(1.099)	291414	50.0000	44.5	
	32 2,2-Dichloropropane	77	6.903	6.912	(0.859)	455811	50.0000	59.4	
	33 Bromochloromethane	128	7.039	7.041	(0.876)	147059	50.0000	50.5	
	34 Chloroform	83	7.153	7.162	(0.890)	562243	50.0000	51.6	
	35 Carbon Tetrachloride	117	7.317	7.319	(0.841)	416950	50.0000	57.2	
	36 Tetrahydrofuran	42	7.360	7.362	(0.916)	574332	250.000	253	
$	37 Dibromofluoromethane	113	7.403	7.405	(0.921)	276374	50.0000	47.8	
	38 1,1,1-Trichloroethane	97	7.418	7.419	(0.923)	497097	50.0000	54.0	
	39 1,1-Dichloropropene	75	10.870	10.872	(1.249)	437762	50.0000	54.4	
	40 2-Butanone	43	7.582	7.584	(0.943)	929305	250.000	257	
	41 Benzene	78	7.911	7.913	(0.909)	1199735	50.0000	52.1	
*	42 Pentafluorobenzene	168	8.039	8.041	(1.000)	529766	50.0000		
	43 Cyclohexane	56	7.017	7.026	(0.873)	495852	50.0000	52.4	
	44 Ethyl Methacrylate	69	11.056	11.058	(1.270)	385034	50.0000	45.5	
$	45 1,2-Dichloroethane-D4	65	8.089	8.090	(1.006)	306993	50.0000	41.9	
	46 Tertiary-amyl methyl ether	73	8.082	8.084	(1.005)	710937	50.0000	53.5	
	47 1,2-Dichloroethane	62	8.175	8.177	(0.939)	388412	50.0000	46.5	
	48 Trichloroethene	95	8.654	8.656	(0.994)	304488	50.0000	51.4	
*	49 1,4-Difluorobenzene	114	8.704	8.706	(1.000)	858492	50.0000		
	50 Dibromomethane	93	9.162	9.164	(1.053)	189082	50.0000	48.1	
	51 1,2-Dichloropropane	63	9.283	9.285	(1.067)	301235	50.0000	51.6	
	52 Bromodichloromethane	83	9.369	9.371	(1.076)	424897	50.0000	53.7	
	53 cis-1,3-dichloropropene	75	10.112	10.114	(1.162)	520326	50.0000	56.6	
	54 1,4-Dioxane	88	9.612	9.614	(1.104)	101452	1000.00	898	
$	55 Toluene-D8	98	10.320	10.322	(1.186)	1003849	50.0000	50.8	
	56 2-Chloroethylvinylether	63	10.048	10.050	(1.154)	185118	50.0000	45.3	
	57 Toluene	92	10.377	10.379	(1.192)	773942	50.0000	53.6	
	58 4-methyl-2-pentanone	43	10.827	10.829	(1.244)	1620989	250.000	245	
	59 Tetrachloroethene	164	10.820	10.822	(0.887)	297360	50.0000	53.7	
	60 trans-1,3-Dichloropropene	75	10.870	10.872	(1.249)	437762	50.0000	54.4	
	61 1,1,2-Trichloroethane	83	11.056	11.058	(1.270)	242211	50.0000	51.0	
	62 Dibromochloromethane	129	11.270	11.272	(0.924)	341756	50.0000	55.8	
	63 1,3-Dichloropropane	76	11.385	11.387	(0.934)	498245	50.0000	51.4	
	64 1,2-Dibromoethane	107	11.556	11.551	(1.328)	311079	50.0000	52.7	
	65 2-Hexanone	43	11.835	11.837	(0.971)	1290787	250.000	250	
*	66 Chlorobenzene-D5	117	12.192	12.194	(1.000)	891845	50.0000		
	67 Chlorobenzene	112	12.214	12.216	(1.002)	930701	50.0000	51.1	
	152 1-Chlorohexane	91	12.185	12.187	(0.999)	514187	50.0000	51.5	
	68 Ethylbenzene	106	12.250	12.251	(1.005)	500848	50.0000	53.0	
	69 1,1,1,2-Tetrachloroethane	131	12.292	12.294	(1.008)	330374	50.0000	54.8	
	71 m+p-Xylenes	106	12.435	12.437	(1.020)	1271469	100.000	109	
	72 o-Xylene	106	13.007	13.009	(1.067)	632351	50.0000	55.4	
	73 Styrene	104	13.079	13.081	(1.073)	983621	50.0000	56.8	
	74 Bromoform	173	13.114	13.116	(1.076)	235947	50.0000	49.6	
	75 Isopropylbenzene	105	13.436	13.438	(0.866)	1619593	50.0000	53.3	
$	76 P-Bromofluorobenzene	95	13.836	13.838	(1.590)	443541	50.0000	52.0	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.938	(0.898)	150107	50.0000	44.1	
	78 trans-1,4-Dichloro-2-Butene	53	14.394	14.403	(0.928)	125560	50.0000	44.7	
	79 Bromobenzene	156	13.987	13.988	(0.901)	415098	50.0000	50.6	

Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0669.D
Report Date: 23-Dec-2014 14:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.029	14.031	(0.904)	1924819	50.0000	50.6	
81	1,1,2,2-Tetrachloroethane	83	14.137	14.139	(0.911)	455810	50.0000	47.2	
82	1,3,5-Trimethylbenzene	105	14.315	14.317	(0.923)	1378139	50.0000	52.2	
83	2-Chlorotoluene	91	14.251	14.253	(0.918)	1196079	50.0000	50.9	
84	1,2,3-Trichloropropane	75	14.330	14.332	(0.924)	358269	50.0000	46.8	
85	4-Chlorotoluene	91	14.501	14.503	(0.935)	1220915	50.0000	50.1	
86	tert-Butylbenzene	119	14.794	14.796	(0.953)	1479366	50.0000	52.8	
87	Pentachloroethane	117	14.823	14.825	(0.955)	301259	50.0000	48.2	
88	1,2,4-Trimethylbenzene	105	14.901	14.903	(0.960)	1344050	50.0000	52.3	
89	P-Isopropyltoluene	119	15.295	15.297	(0.986)	1562571	50.0000	54.5	
90	1,3-Dichlorobenzene	146	15.402	15.404	(0.993)	844461	50.0000	50.5	
* 91	1,4-Dichlorobenzene-D4	152	15.516	15.518	(1.000)	508307	50.0000		
92	1,4-Dichlorobenzene	146	15.545	15.547	(1.002)	802606	50.0000	47.2	
93	N-Butylbenzene	91	15.967	15.968	(1.029)	1465322	50.0000	51.9	
94	sec-Butylbenzene	105	15.066	15.068	(0.971)	1863923	50.0000	51.1	
95	1,2-Dichlorobenzene	146	16.217	16.219	(1.045)	772735	50.0000	51.1	
96	1,2-Dibromo-3-Chloropropane	75	17.568	17.570	(1.132)	84735	50.0000	47.4	
97	1,3,5-Trichlorobenzene	180	17.625	17.627	(1.136)	603628	50.0000	47.9	
98	Hexachlorobutadiene	225	18.726	18.728	(1.207)	270227	50.0000	47.9	
99	1,2,4-Trichlorobenzene	180	18.761	18.763	(1.209)	458767	50.0000	52.0	
100	1,2,3-Trimethylbenzene	105	15.581	15.590	(1.004)	1309121	50.0000	47.4	
101	Naphthalene	128	19.348	19.349	(1.247)	1061446	50.0000	52.9	
102	1,2,3-Trichlorobenzene	180	19.684	19.685	(1.269)	362265	50.0000	51.8	
103	Methyl Acetate	43	4.973	4.975	(0.619)	283115	50.0000	44.6	
104	Methylcyclohexane	83	8.626	8.635	(1.073)	522474	50.0000	50.9	

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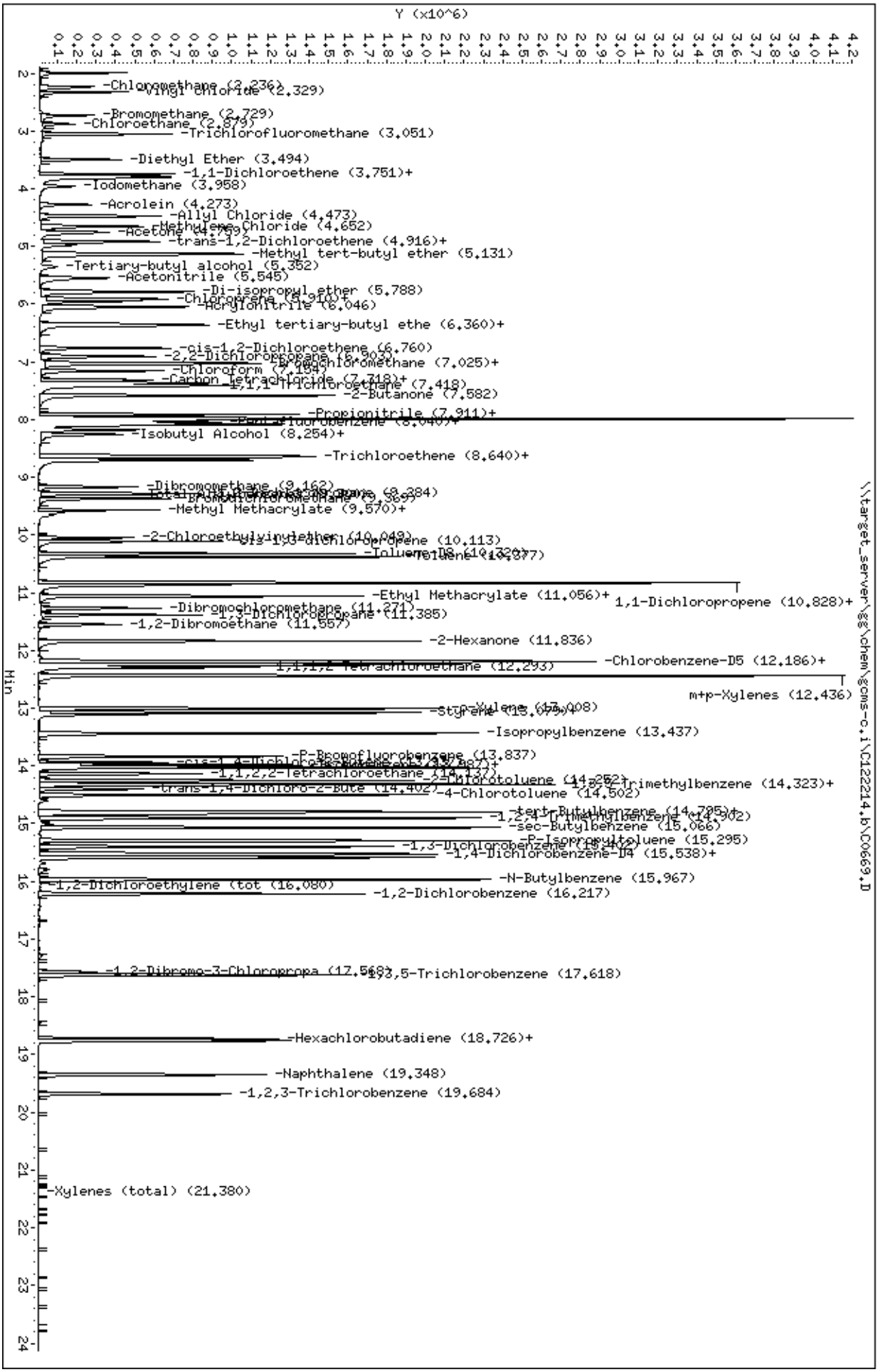
Date : 22-DEC-2014 09:51
Client ID: ontinuing Calibrati
Sample Info: WG156070-4,TH0715
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18



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Date : 26-NOV-2014 06:54

Client ID:

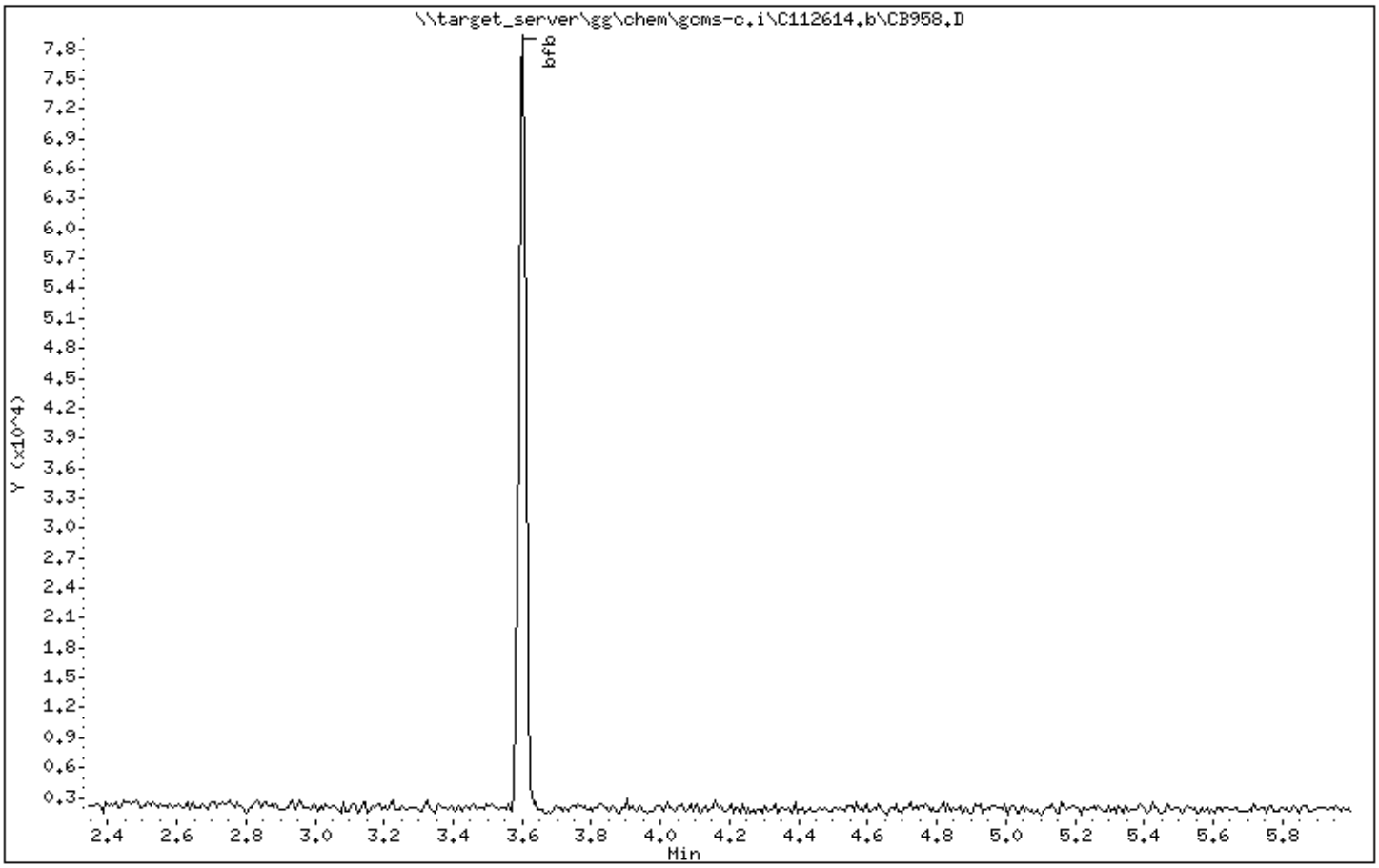
Instrument: gcms-c.i

Sample Info: WG154861-10,TH0715

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18



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Date : 26-NOV-2014 06:54

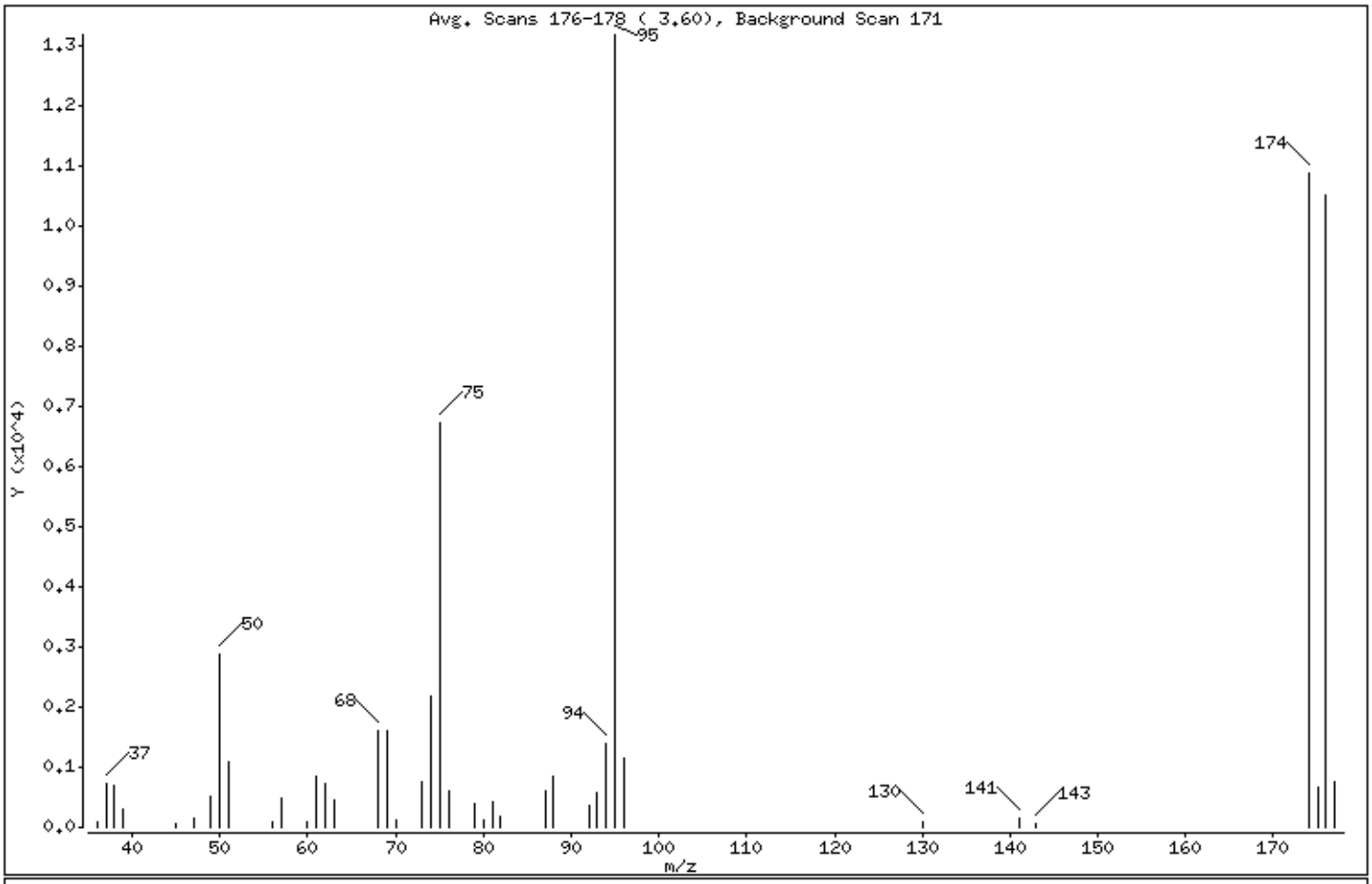
Client ID: Instrument: gcms-c.i

Sample Info: WG154861-10,TH0715

Operator: DJP

Column phase: RTX-VMS Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.80
75	30.00 - 60.00% of mass 95	51.04
96	5.00 - 9.00% of mass 95	8.81
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.42
175	5.00 - 9.00% of mass 174	5.14 (6.23)
176	95.00 - 101.00% of mass 174	79.79 (96.81)
177	5.00 - 9.00% of mass 176	5.72 (7.17)

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\CB958.D

Date : 26-NOV-2014 06:54

Client ID:

Instrument: gcms-c.i

Sample Info: WG154861-10,TH0715

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

Data File: CB958.D
Spectrum: Avg. Scans 176-178 (3.60), Background Scan 171
Location of Maximum: 95.00
Number of points: 40

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	79	60.00	79	79.00	404	130.00	94
37.00	735	61.00	835	80.00	110	141.00	151
38.00	707	62.00	720	81.00	436	143.00	75
39.00	305	63.00	456	82.00	191	174.00	10863
45.00	69	68.00	1610	87.00	594	175.00	677
47.00	140	69.00	1594	88.00	838	176.00	10516
49.00	524	70.00	115	92.00	378	177.00	754
50.00	2873	73.00	765	93.00	569		
51.00	1084	74.00	2169	94.00	1390		
56.00	104	75.00	6727	95.00	13180		
57.00	499	76.00	594	96.00	1161		

Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\CB977.D

Date : 22-DEC-2014 08:22

Client ID:

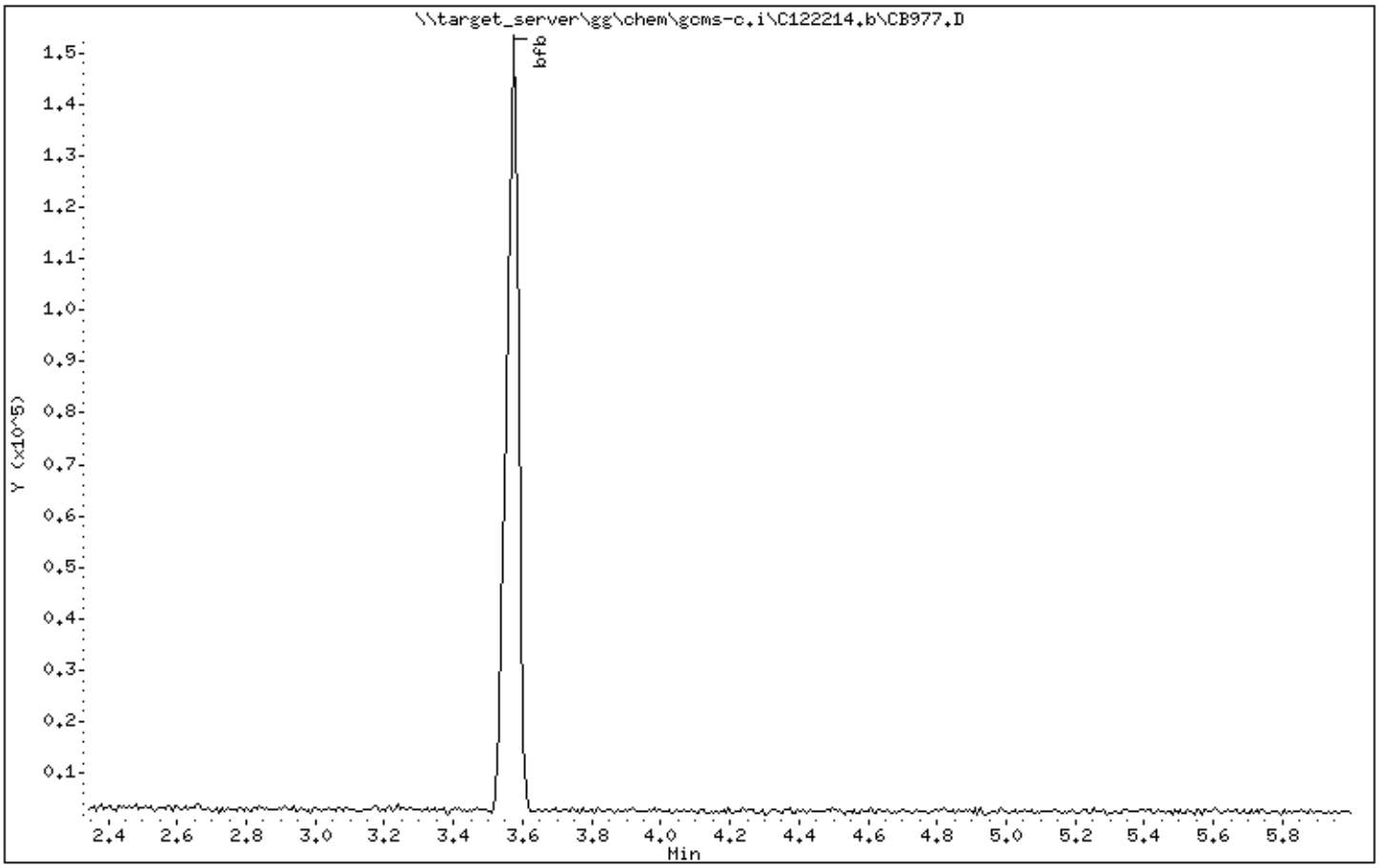
Instrument: gcms-c.i

Sample Info: WG156070-3,TH0715

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\CB977.D

Date : 22-DEC-2014 08:22

Client ID:

Instrument: gcms-c.i

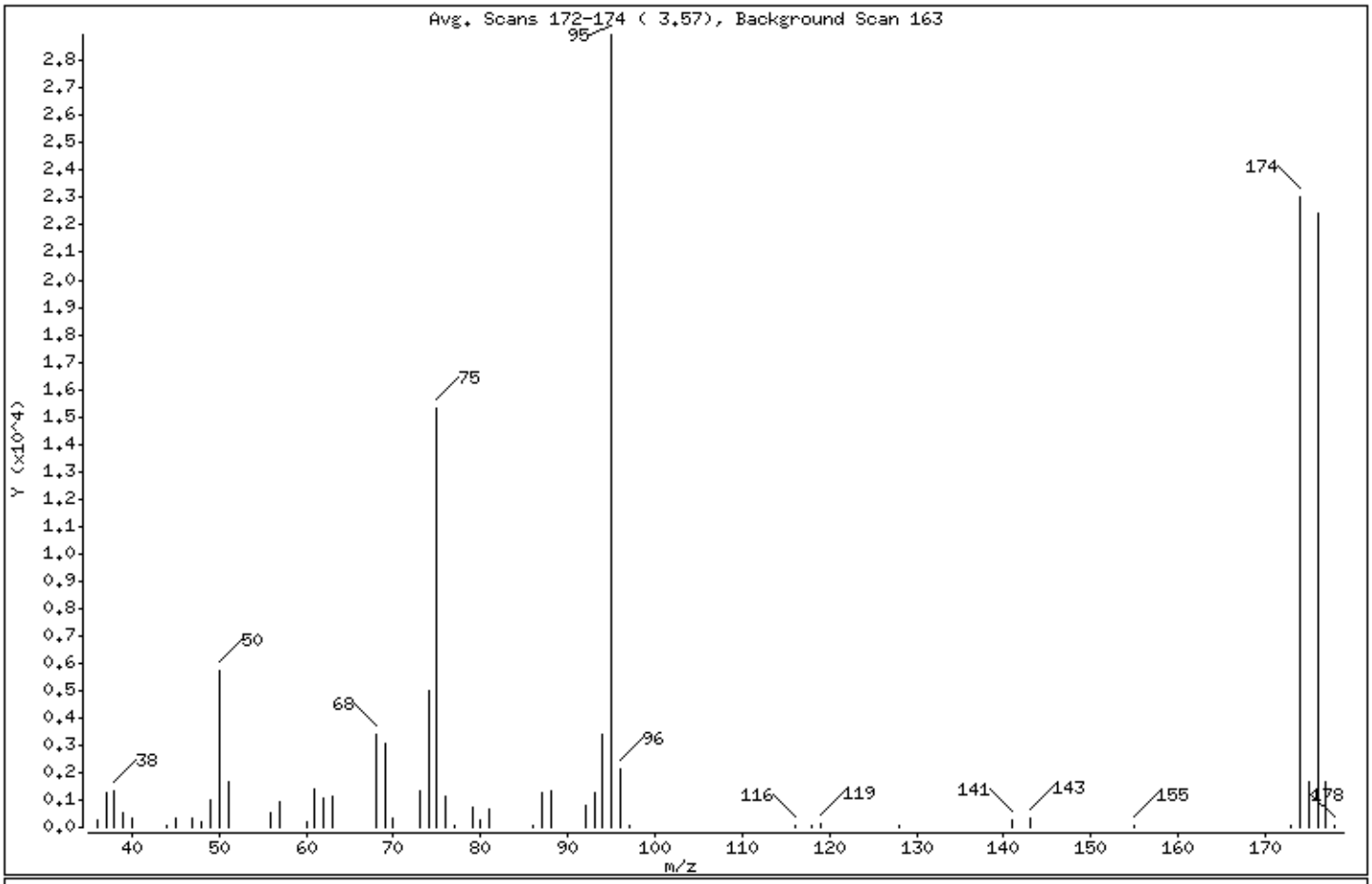
Sample Info: WG156070-3,TH0715

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.82
75	30.00 - 60.00% of mass 95	52.90
96	5.00 - 9.00% of mass 95	7.34
173	Less than 2.00% of mass 174	0.30 (0.38)
174	Greater than 50.00% of mass 95	79.58
175	5.00 - 9.00% of mass 174	5.77 (7.25)
176	95.00 - 101.00% of mass 174	77.37 (97.22)
177	5.00 - 9.00% of mass 176	5.85 (7.57)

Date : 22-DEC-2014 08:22

Client ID: Instrument: gcms-c.i

Sample Info: WG156070-3,TH0715

Operator: REC

Column phase: RTX-VMS Column diameter: 0.18

Data File: CB977.D
Spectrum: Avg. Scans 172-174 (3.57), Background Scan 163
Location of Maximum: 95.00
Number of points: 51

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	236	57.00	916	79.00	724	118.00	81
37.00	1266	60.00	217	80.00	260	119.00	102
38.00	1318	61.00	1401	81.00	683	128.00	92
39.00	553	62.00	1090	86.00	73	141.00	287
40.00	329	63.00	1137	87.00	1265	143.00	319
44.00	43	68.00	3387	88.00	1360	155.00	95
45.00	349	69.00	3082	92.00	803	173.00	87
47.00	339	70.00	301	93.00	1287	174.00	23040
48.00	205	73.00	1311	94.00	3392	175.00	1671
49.00	981	74.00	4959	95.00	28952	176.00	22400
50.00	5739	75.00	15316	96.00	2124	177.00	1695
51.00	1653	76.00	1131	97.00	67	178.00	71
56.00	535	77.00	72	116.00	96		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG156070-2
Client ID: Method Blank Sample
Project:
SDG: TH0715
Lab File ID: C0674.D

Sample Date:
Received Date:
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG156070-2
Client ID: Method Blank Sample
Project:
SDG: TH0715
Lab File ID: C0674.D

Sample Date:
Received Date:
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		103.	%					
Toluene-d8		102.	%					
1,2-Dichloroethane-d4		94.4	%					
Dibromofluoromethane		96.6	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0674.D
Report Date: 23-Dec-2014 14:28

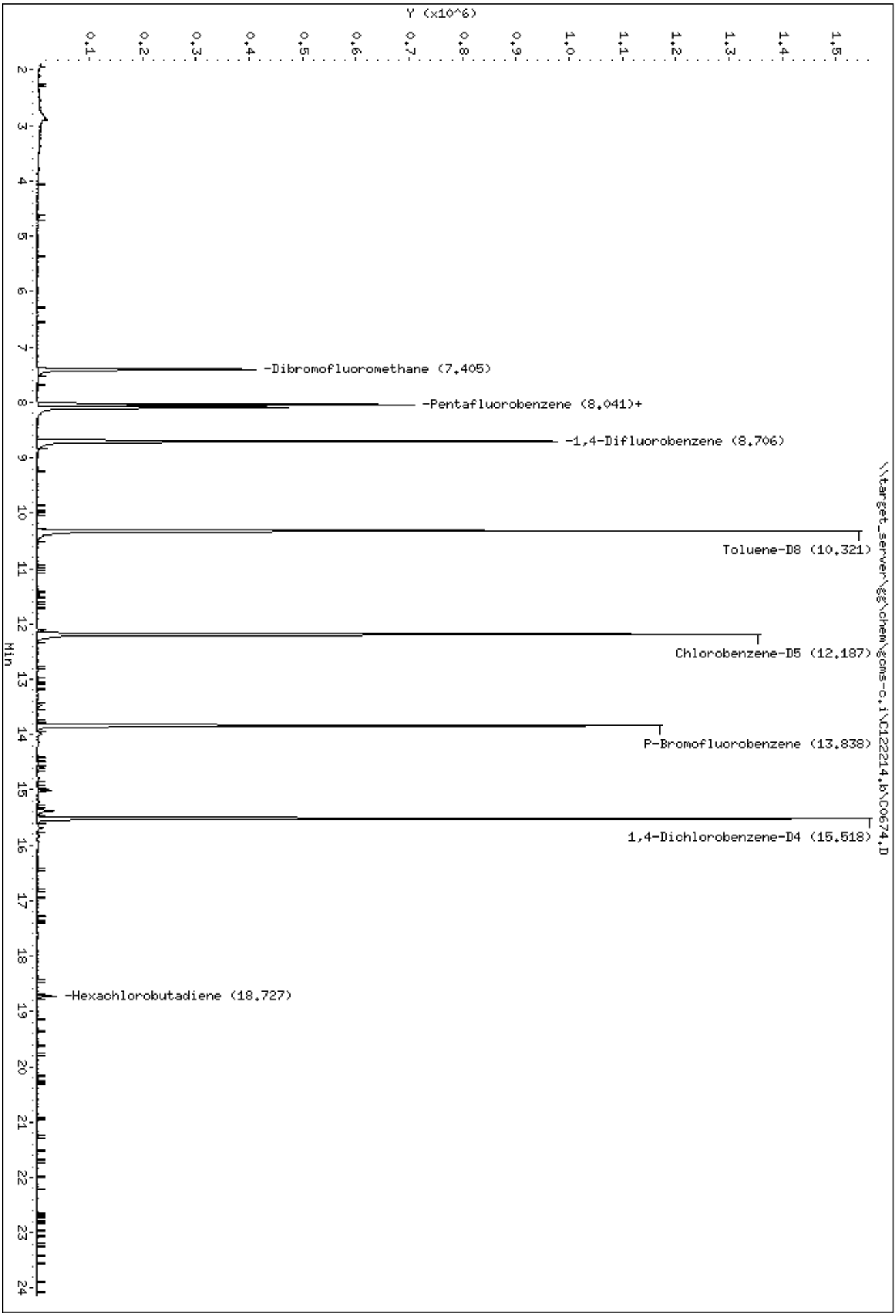
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122214.b\C0674.D
Lab Smp Id: WG156070-2 Client Smp ID: WG156070-Blank
Inj Date : 22-DEC-2014 12:54 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG156070-2,TH0715
Misc Info : WG156070,WG154861-4,TH0715-7
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C122214.b\C826A26.m
Meth Date : 23-Dec-2014 14:19 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.404	7.405	(0.921)	251594	48.2793	48.3	
* 42 Pentafluorobenzene	168	8.040	8.041	(1.000)	477544	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	311825	47.2004	47.2	
* 49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	785976	50.0000		
$ 55 Toluene-D8	98	10.321	10.322	(1.186)	919814	50.8159	50.8	
* 66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	805029	50.0000		
$ 76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	403133	51.6148	51.6	
* 91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	452928	50.0000		
98 Hexachlorobutadiene	225	18.727	18.728	(1.207)	8196	1.63105	1.6	


Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0674.D
Date : 22-DEC-2014 12:54
Client ID: WG156070-Blank
Sample Info: WG156070-2,TH0715
Instrument: gcms-c.i
\\target_server\gg\chem\gcms-c.i\C122214.b\C0674.D
Y (x10^6)
Min
-Dibromofluoromethane (7.405)
-Pentafluorobenzene (8.041)+
-1,4-Difluorobenzene (8.706)
Toluene-D8 (10.321)
Chlorobenzene-D5 (12.187)
P-Bromofluorobenzene (13.838)
1,4-Dichlorobenzene-D4 (15.518)
-Hexachlorobutadiene (18.727)

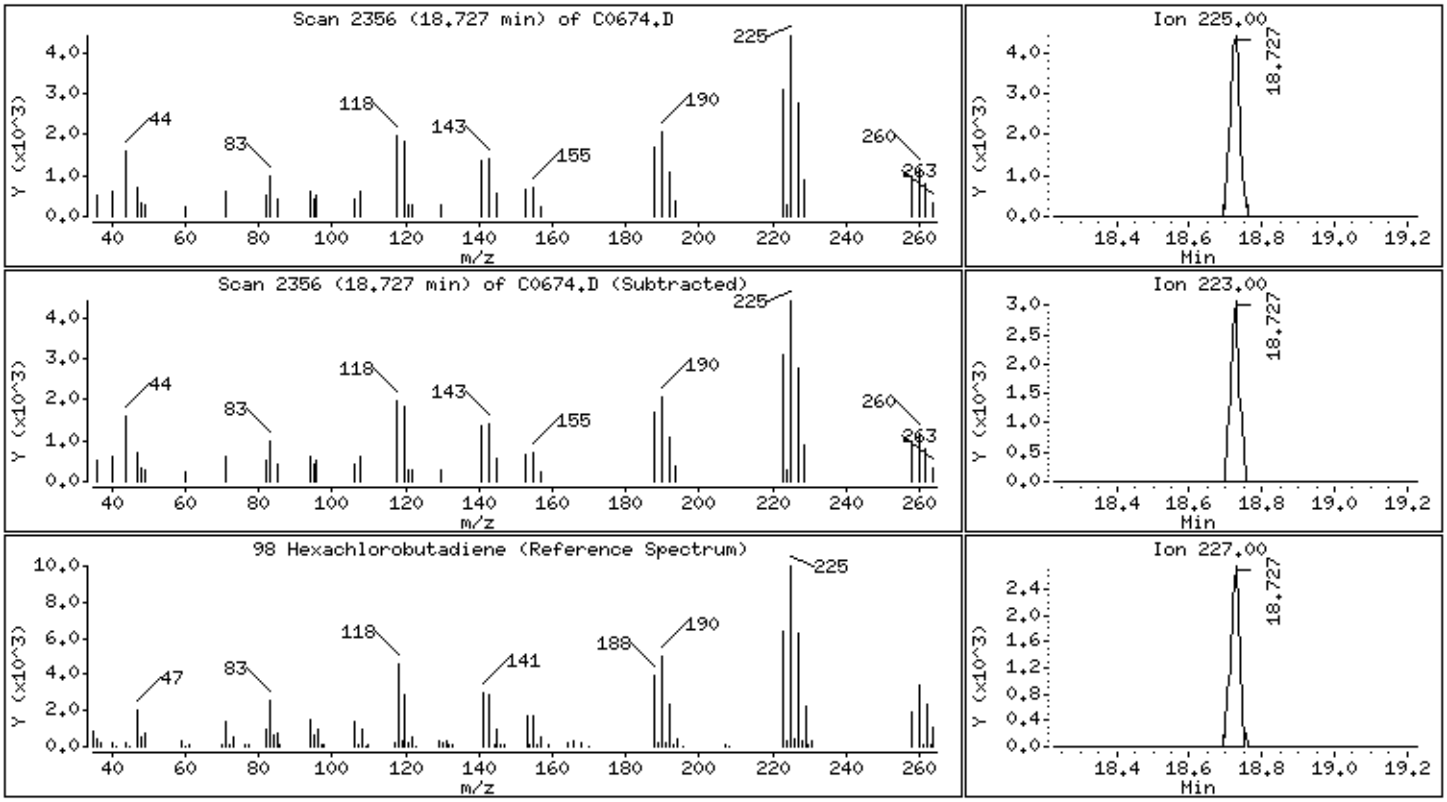
Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0674.D

Date : 22-DEC-2014 12:54

Client ID: WG156070-Blank Instrument: gcms-c.i

Sample Info: WG156070-2,TH0715

98 Hexachlorobutadiene Concentration: 1.6 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG156070-1
Client ID: LCS
Project:
SDG: TH0715
LCS File ID: C0670.D

Sample Date:
Received Date:
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	59.6	50.0	29.8	ug/L	30-155
Chloromethane	86.2	50.0	43.1	ug/L	40-125
Vinyl Chloride	88.0	50.0	44.0	ug/L	50-145
Bromomethane	110.	50.0	55.0	ug/L	30-145
Chloroethane	74.4	50.0	37.2	ug/L	60-135
Trichlorofluoromethane	80.4	50.0	40.2	ug/L	60-145
1,1-Dichloroethene	96.8	50.0	48.4	ug/L	70-130
Carbon Disulfide	115.	50.0	57.7	ug/L	35-160
Freon-113	106.	50.0	52.9	ug/L	73-126
Methylene Chloride	99.0	50.0	49.5	ug/L	55-140
Acetone	123.	50.0	61.7	ug/L	40-140
trans-1,2-Dichloroethene	97.0	50.0	48.5	ug/L	60-140
Methyl tert-butyl Ether	108.	100.	108.	ug/L	65-125
1,1-Dichloroethane	99.4	50.0	49.7	ug/L	70-135
cis-1,2-Dichloroethene	98.4	50.0	49.2	ug/L	70-125
Chloroform	98.2	50.0	49.1	ug/L	65-135
1,1,1-Trichloroethane	103.	50.0	51.7	ug/L	65-130
2-Butanone	100.	50.0	50.1	ug/L	30-150
Cyclohexane	99.4	50.0	49.7	ug/L	71-133
Carbon Tetrachloride	112.	50.0	55.8	ug/L	65-140
Benzene	101.	50.0	50.4	ug/L	80-120
1,2-Dichloroethane	92.2	50.0	46.1	ug/L	70-130
Trichloroethene	98.4	50.0	49.2	ug/L	70-125
1,2-Dichloropropane	98.4	50.0	49.2	ug/L	75-125
Bromodichloromethane	106.	50.0	52.9	ug/L	75-120
cis-1,3-Dichloropropene	104.	50.0	51.8	ug/L	70-130
Toluene	106.	50.0	52.8	ug/L	75-120
4-Methyl-2-Pentanone	95.4	50.0	47.7	ug/L	60-135
trans-1,3-Dichloropropene	107.	50.0	53.6	ug/L	55-140
1,1,2-Trichloroethane	96.8	50.0	48.4	ug/L	75-125
Tetrachloroethene	116.	50.0	58.2	ug/L	45-150
Dibromochloromethane	109.	50.0	54.4	ug/L	60-135
2-Hexanone	92.6	50.0	46.3	ug/L	55-130
Chlorobenzene	96.8	50.0	48.4	ug/L	80-120
Ethylbenzene	102.	50.0	51.0	ug/L	75-125

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG156070-1
Client ID: LCS
Project:
SDG: TH0715
LCS File ID: C0670.D

Sample Date:
Received Date:
Extract Date: 22-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG156070

Analysis Date: 22-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 23-DEC-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Xylenes (total)	104.	150.	156.	ug/L	89-116
Styrene	112.	50.0	55.8	ug/L	65-135
Bromoform	96.2	50.0	48.1	ug/L	70-130
Isopropylbenzene	99.0	50.0	49.5	ug/L	75-125
1,1,2,2-Tetrachloroethane	89.4	50.0	44.7	ug/L	65-130
1,3-Dichlorobenzene	93.4	50.0	46.7	ug/L	75-125
1,4-Dichlorobenzene	91.0	50.0	45.5	ug/L	75-125
1,2-Dichlorobenzene	94.4	50.0	47.2	ug/L	70-120
1,2,4-Trichlorobenzene	100.	50.0	50.1	ug/L	65-135
Methyl Acetate	90.4	50.0	45.2	ug/L	70-132
Methylcyclohexane	97.8	50.0	48.9	ug/L	73-125
o-Xylene	105.	50.0	52.3	ug/L	80-120
M+P-Xylenes	103.	100.	103.	ug/L	75-130
1,2-Dichloroethylene (Total)	97.8	100.	97.8	ug/L	84-121
1,2-Dibromoethane	101.	50.0	50.4	ug/L	80-120
1,2-Dibromo-3-Chloropropane	89.2	50.0	44.6	ug/L	50-130
P-Bromofluorobenzene	105.				75-120
Toluene-d8	102.				85-120
1,2-Dichloroethane-d4	83.0				70-120
Dibromofluoromethane	94.7				85-115

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Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0670.D
Report Date: 23-Dec-2014 14:28

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C122214.b\C0670.D
Lab Smp Id: WG156070-1 Client Smp ID: WG156070-LCS
Inj Date : 22-DEC-2014 10:35 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG156070-1,TH0715
Misc Info : WG156070,WG154861-4,TH0715-7
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C122214.b\C826A26.m
Meth Date : 23-Dec-2014 14:19 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.993	1.994	(0.248)	207021	29.7939	29.8	
2 Chloromethane	50	2.229	2.230	(0.277)	379955	43.0693	43.1	
3 Vinyl chloride	62	2.329	2.330	(0.290)	329346	44.0389	44.0	
4 Bromomethane	94	2.729	2.730	(0.339)	176741	55.0242	55.0	
5 Chloroethane	64	2.879	2.880	(0.358)	119445	37.1947	37.2	
6 Trichlorofluoromethane	101	3.051	3.059	(0.379)	500334	40.2017	40.2	
7 Diethyl Ether	59	3.494	3.488	(0.435)	215833	38.7879	38.8(R)	
8 Tertiary-butyl alcohol	59	5.352	5.347	(0.666)	144087	230.626	231	
9 1,1-Dichloroethene	96	3.751	3.753	(0.467)	239456	48.4184	48.4	
10 Carbon Disulfide	76	3.787	3.788	(0.471)	866809	57.7382	57.7	
11 Freon-113	151	3.808	3.817	(0.474)	191378	52.8789	52.9	
12 Iodomethane	142	3.959	3.967	(0.492)	264388	88.1393	88.1(R)	
13 Acrolein	56	4.273	4.274	(0.531)	264656	206.375	206	
14 Methylene Chloride	84	4.652	4.653	(0.579)	308996	49.5115	49.5	
15 Acetone	43	4.759	4.753	(0.592)	160324	61.7174	61.7	
16 Isobutyl Alcohol	43	8.254	8.256	(1.027)	283427	821.033	821	
17 trans-1,2-Dichloroethene	96	4.916	4.925	(0.612)	278434	48.4979	48.5	
18 Allyl Chloride	41	4.473	4.482	(0.556)	460242	47.6264	47.6	
19 Methyl tert-butyl ether	73	5.131	5.132	(0.638)	1459133	108.092	108	
20 Acetonitrile	39	5.545	5.540	(0.690)	122346	456.367	456	
21 Di-isopropyl ether	45	5.788	5.790	(0.720)	907830	46.9741	47.0	
22 Chloroprene	53	5.910	5.918	(0.735)	445390	47.9483	47.9	
23 Propionitrile	54	7.969	7.970	(0.991)	559513	431.048	431	
24 Methacrylonitrile	41	7.990	7.991	(0.994)	1934683	402.852	403	

Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0670.D
Report Date: 23-Dec-2014 14:28

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.946	5.954	(0.740)	532177	49.7384	49.7	
	26	Acrylonitrile	52	6.046	6.047	(0.752)	580421	210.794	211	
	27	Ethyl tertiary-butyl ether	59	6.353	6.354	(0.790)	772755	49.4201	49.4	
	28	Vinyl Acetate	43	6.375	6.376	(0.732)	688654	47.8660	47.9	
	29	cis-1,2-Dichloroethene	96	6.761	6.762	(0.841)	317203	49.2588	49.2	
M	30	1,2-Dichloroethylene (total)	96				595637	97.7567	97.8	
	31	Methyl Methacrylate	41	9.570	9.571	(1.099)	276842	42.9701	43.0	
	32	2,2-Dichloropropane	77	6.904	6.912	(0.859)	425033	55.6011	55.6	
	33	Bromochloromethane	128	7.039	7.041	(0.876)	141657	48.8722	48.9	
	34	Chloroform	83	7.154	7.162	(0.890)	532738	49.1196	49.1	
	35	Carbon Tetrachloride	117	7.318	7.319	(0.841)	400908	55.8484	55.8	
	36	Tetrahydrofuran	42	7.368	7.362	(0.916)	108905	48.1975	48.2	
$	37	Dibromofluoromethane	113	7.404	7.405	(0.921)	272633	47.3665	47.4	
	38	1,1,1-Trichloroethane	97	7.411	7.419	(0.922)	474129	51.7111	51.7	
	39	1,1-Dichloropropene	75	10.871	10.872	(1.249)	424991	53.5824	53.6	
	40	2-Butanone	43	7.583	7.584	(0.943)	180577	50.0957	50.1	
	41	Benzene	78	7.911	7.913	(0.909)	1144691	50.4554	50.4	
*	42	Pentafluorobenzene	168	8.040	8.041	(1.000)	527450	50.0000		
	43	Cyclohexane	56	7.018	7.026	(0.873)	468640	49.7377	49.7	
	44	Ethyl Methacrylate	69	11.056	11.058	(1.270)	367597	44.1611	44.2	
$	45	1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	302952	41.5184	41.5	
	46	Tertiary-amyl methyl ether	73	8.083	8.084	(1.005)	664102	50.2318	50.2	
	47	1,2-Dichloroethane	62	8.176	8.177	(0.939)	379422	46.0989	46.1	
	48	Trichloroethene	95	8.648	8.656	(0.993)	287072	49.2206	49.2	
*	49	1,4-Difluorobenzene	114	8.705	8.706	(1.000)	845719	50.0000		
	50	Dibromomethane	93	9.162	9.164	(1.053)	179686	46.3962	46.4	
	51	1,2-Dichloropropane	63	9.284	9.285	(1.067)	283192	49.2306	49.2	
	52	Bromodichloromethane	83	9.370	9.371	(1.076)	412828	52.9497	52.9	
	53	cis-1,3-dichloropropene	75	10.106	10.114	(1.161)	469778	51.8329	51.8	
	54	1,4-Dioxane	88	9.613	9.614	(1.104)	97345	874.305	874	
$	55	Toluene-D8	98	10.320	10.322	(1.186)	998424	51.2622	51.3	
	56	2-Chloroethylvinylether	63	10.049	10.050	(1.154)	181747	45.1895	45.2	
	57	Toluene	92	10.377	10.379	(1.192)	750344	52.7610	52.8	
	58	4-methyl-2-pentanone	43	10.828	10.829	(1.244)	333200	47.7033	47.7	
	59	Tetrachloroethene	164	10.821	10.822	(0.888)	313813	58.2201	58.2	
	60	trans-1,3-Dichloropropene	75	10.871	10.872	(1.249)	424991	53.5824	53.6	
	61	1,1,2-Trichloroethane	83	11.056	11.058	(1.270)	226427	48.3594	48.4	
	62	Dibromochloromethane	129	11.271	11.272	(0.925)	323729	54.3608	54.4	
	63	1,3-Dichloropropane	76	11.385	11.387	(0.934)	474690	50.3131	50.3	
	64	1,2-Dibromoethane	107	11.550	11.551	(1.327)	293436	50.4243	50.4	
	65	2-Hexanone	43	11.836	11.837	(0.971)	252054	46.2618	46.3	
*	66	Chlorobenzene-D5	117	12.186	12.194	(1.000)	867767	50.0000		
	67	Chlorobenzene	112	12.214	12.216	(1.002)	857863	48.3730	48.4	
	152	1-Chlorohexane	91	12.186	12.187	(1.000)	489933	50.3933	50.4	
	68	Ethylbenzene	106	12.243	12.251	(1.005)	468745	50.9635	51.0	
	69	1,1,1,2-Tetrachloroethane	131	12.293	12.294	(1.009)	315311	53.8029	53.8	
M	70	Xylenes (total)	106				1748256	155.574	156	
	71	m+p-Xylenes	106	12.436	12.437	(1.021)	1167280	103.237	103	
	72	o-Xylene	106	13.008	13.009	(1.067)	580976	52.3364	52.3	
	73	Styrene	104	13.079	13.081	(1.073)	940861	55.8379	55.8	
	74	Bromoform	173	13.115	13.116	(1.076)	222453	48.1315	48.1	
	75	Isopropylbenzene	105	13.437	13.438	(0.866)	1493272	49.4801	49.5	
$	76	P-Bromofluorobenzene	95	13.837	13.838	(1.590)	441783	52.5676	52.6	
	77	cis-1,4-Dichloro-2-Butene	53	13.937	13.938	(0.898)	144551	42.7626	42.8	

Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0670.D
Report Date: 23-Dec-2014 14:28

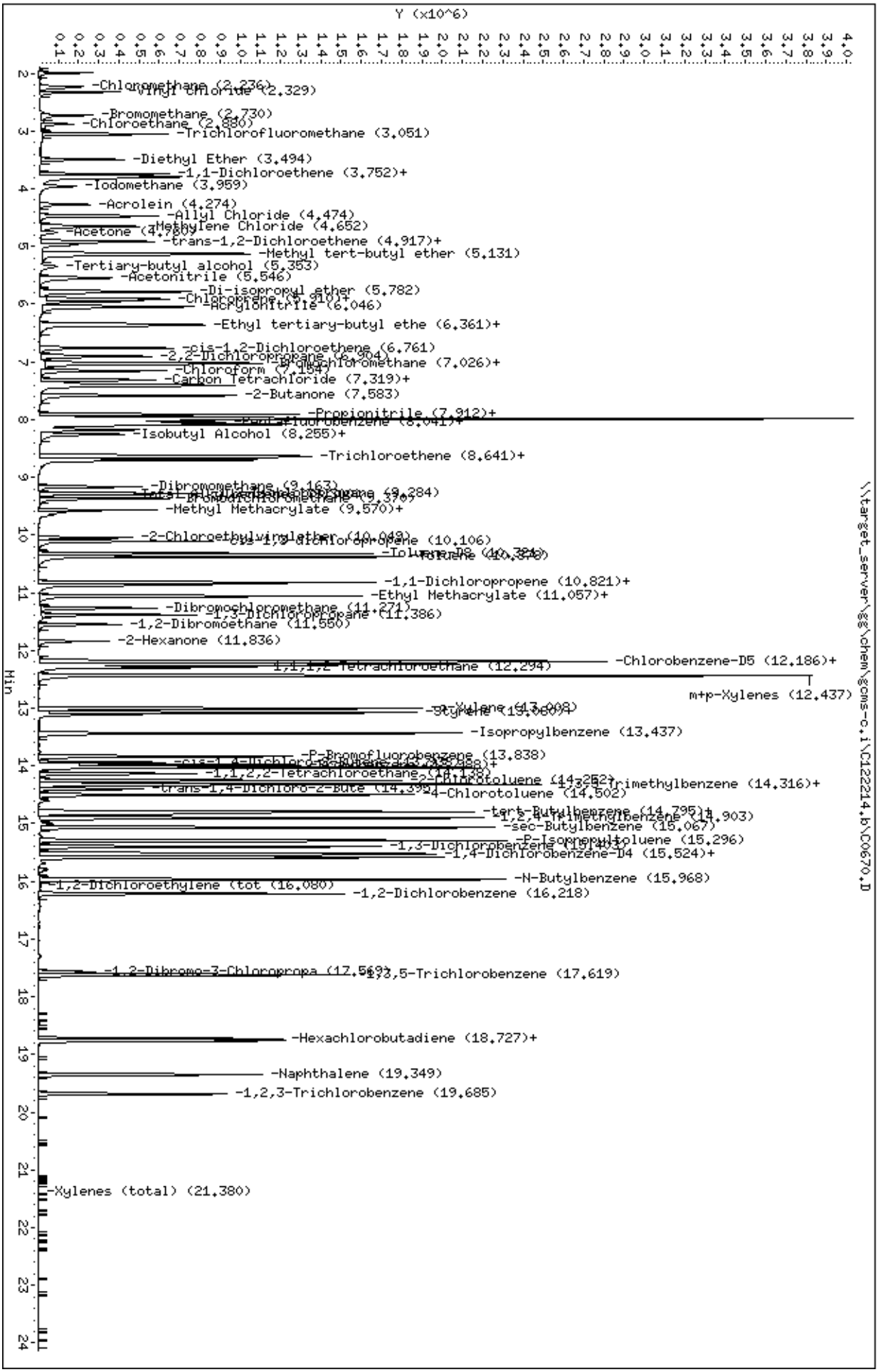
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.395	14.403	(0.928)	116212	41.6493	41.6	
	79 Bromobenzene	156	13.987	13.988	(0.901)	401693	49.3384	49.3	
	80 N-Propylbenzene	91	14.023	14.031	(0.904)	1822620	48.2189	48.2	
	81 1,1,2,2-Tetrachloroethane	83	14.137	14.139	(0.911)	428727	44.7341	44.7	
	82 1,3,5-Trimethylbenzene	105	14.316	14.317	(0.923)	1283137	48.9834	49.0	
	83 2-Chlorotoluene	91	14.252	14.253	(0.918)	1097482	47.0409	47.0	
	84 1,2,3-Trichloropropane	75	14.330	14.332	(0.924)	341157	44.9118	44.9	
	85 4-Chlorotoluene	91	14.502	14.503	(0.935)	1135992	46.9249	46.9	
	86 tert-Butylbenzene	119	14.795	14.796	(0.953)	1330666	47.8118	47.8	
	87 Pentachloroethane	117	14.823	14.825	(0.955)	246933	39.7784	39.8	
	88 1,2,4-Trimethylbenzene	105	14.902	14.903	(0.960)	1309686	51.3637	51.4	
	89 P-Isopropyltoluene	119	15.295	15.297	(0.986)	1499763	52.6802	52.7	
	90 1,3-Dichlorobenzene	146	15.402	15.404	(0.993)	776125	46.7355	46.7	
*	91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	504768	50.0000		
	92 1,4-Dichlorobenzene	146	15.545	15.547	(1.002)	767328	45.4952	45.5	
	93 N-Butylbenzene	91	15.967	15.968	(1.029)	1430883	51.0011	51.0	
	94 sec-Butylbenzene	105	15.067	15.068	(0.971)	1753548	48.4009	48.4	
	95 1,2-Dichlorobenzene	146	16.217	16.219	(1.045)	709014	47.2105	47.2	
	96 1,2-Dibromo-3-Chloropropane	75	17.568	17.570	(1.132)	79027	44.6164	44.6	
	97 1,3,5-Trichlorobenzene	180	17.618	17.627	(1.135)	575563	46.0142	46.0	
	98 Hexachlorobutadiene	225	18.726	18.728	(1.207)	273211	48.7868	48.8	
	99 1,2,4-Trichlorobenzene	180	18.762	18.763	(1.209)	438870	50.0876	50.1	
	100 1,2,3-Trimethylbenzene	105	15.581	15.590	(1.004)	1255109	45.7491	45.7	
	101 Naphthalene	128	19.348	19.349	(1.247)	985077	49.3373	49.3	
	102 1,2,3-Trichlorobenzene	180	19.684	19.685	(1.269)	335613	48.3113	48.3	
	103 Methyl Acetate	43	4.974	4.975	(0.619)	285599	45.1814	45.2	
	104 Methylcyclohexane	83	8.626	8.635	(1.073)	500402	48.9253	48.9	
M	153 Total Alkylbenzenes	100				10430303	348.460	348	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gcms-c.i\C122214.b\C0670.D
Date : 22-DEC-2014 10:35
Client ID: WG156070-LCS
Sample Info: WG156070-1,TH0715
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18



Logbooks and Supporting Documents

GCMS-C INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 112614 654

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	D6B	MCP	Y/N	ANALYST	PH	COMMENTS
50ng BFB -10	CB958A	1	-1	V9610BA0							Y	DJP	—	WG155069-7 624
VSTD050	C0211	1	1	C8260925							N			New mixes
020* WG155069-3	C0212A	1	2	C8260926							Y			WG154861-3
005* -2	C0213A	1	3								Y			-2
001	C0214	1	4								N			↑ bias
200* -6	C0215A	1	5								Y			-6
100	C0216	1	6								Y			
50B	C0217	1	7								Y			
Rinse	C0218	1	8								N			
VSTD001B	C0219	1	9								N			
VSTD001C* -1	C0220A	1	10								Y		—	-1
D	21	1	11								N		—	
VSTD100B* -5	22A	1	12								Y			-5
050C* -4	23A	1	13								Y			-4
LCS	24	1	14								N			
LCSB WG154861-8	25	1	15								Y			IND(A) -7
VBLKA	26	1	16								N			
B	27	1	17								N			
C	28	1	18								N			
D -9	29	1	19								Y			
SH9958-11 A	30	1	20		X				X		Y		<2	18:41
-1 A	C0231	1	21		X				X		Y		<2	OOC 21 minutes 19:15
Rinse	32	1	22								N			
Rinse	33	1	23								N			

12/8/14 RES

STANDARD	CODE
BFB	V9612
CAL. STD.	V9627 V9624
LCS/MS MIX	V9625
EXTRAS MIX	V9628

STANDARD	CODE
IS MIX	V9621
SS MIX	V9622

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

KATAHDIN ANALYTICAL SERVICES

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 12/22/14 8:22

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	CB977	1	-1	VOA BFBAG							Y	REC		
VST0050C22A	C0668	1	1	C826A26							N			Gases low
VST0050C22B -4	69	1	2								Y			New gas mix
LCSA W6156070-1	70	1	3								Y			
VBLKA	71	1	4								N			
VBLKB	72	1	5								N			
VBLKC	73	1	6								N			
VBLKD -2	74	1	7								Y			hexq 7PQL
TH0715-7 B	75	1	8		X				X		Y		<2	
TH0755-2 A	76	1	9					X			Y		22	hexq LPQL
-1 B	77	1	10								Y		<2	
12/24/14 KR TH0715-10L A+B+C	78	4 ~~10~~	11						X		Y		<2	X 10mL > 40mL decanted A+B+C vials
-2 A+B	79	1	12								Y		<2	Decanted A+B
-3 A+B+C	80	1	13								Y		<2	Decanted A+B+C vials
-4 A+B+C	81	1	14								Y		<2	Decanted A+B+C vials
-5 A+B	82	1	15								Y		<2	Decanted A+B vials
-6 A+B	83	1	16								Y		<2	Decanted A+B vials
TH0709-1DL B	84	5	17								Y		<2	8mL > 40mL
-3MA B	85	1	18								Y		<2	
-7 A	86	1	19								Y		<2	
-8 A	87	1	20								Y		<2	19:56
-12RA B	88	1	21								N		<2	20:30 ooc 8 min
Rinse	89	1	22								N		Z	
Rinse	90	1	23								N			
Rinse	91	1	24								N		Z	
Rinse	92	1	25								N			

STANDARD	CODE
BFB	V9643
CAL. STD.	V9650 V9656
LCS/MS MIX	V9647
EXTRAS MIX	V9645

STANDARD	CODE
IS MIX	V9640
SS MIX	V9648

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524