N60478.AR.001714
NWS EARLE
5090.3a

RESAMPLING OF SOILS FOR THE CLOSURE OF BUILDING QH-8 AND DEMIL STORAGE AREA ANALYTICAL DATA AND SUPPORTING DOCUMENTATION WITH TRANSMITTAL
NWS EARLE NJ
1/17/2003
MALCOLM PIRNIE

MALCOLM PIRNIE

MALCOLM PIRNIE, INC.
INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS & CONSULTANTS

January 17, 2003

Lawrence Stefan Burg
Environmental Engineer
Naval Weapons Station, Earle
201 Highway 34 South
Colts Neck, New Jersey 07722-5001

Re: Re-Sampling of Soils for the Closure of Building QH-8 and Demil Storage Area
Naval Weapons Station, Earle
Colts Neck, New Jersey
USEPA ID No. NJ0 170 022 172
NJ Hazardous Waste Facility Permit No. 1309A1HP05

Dear Mr. Burg:

Malcolm Pirnie is pleased to submit the supporting documentation and analytical data associated with the re-sampling effort completed in support of the *Final RCRA Certification Report for Building QH-8 and the Demil Storage Area*, dated December 1999. This re-sampling effort was completed in accordance with the July 11, 2002 Work Plan as modified by the New Jersey Department of Environmental Protection (NJDEP) letter dated October 16, 2002 (Attachment A).

In support of this re-sampling effort we have included the following attachments which should be incorporated into the *Final RCRA Certification Report for Building QH-8 and the Demil Storage Area*, dated December 1999:

- Attachment A: NJDEP, Division of Solid and Hazardous Waste letter dated October 16, 2002 conditionally approving the July 11, 2002 Work Plan. In providing approval of the Work Plan, this letter presented conditions for the completion of the work.
- Attachment B: A copy of the Field Notes from the November 20, 2002 re-sampling event. As noted in the Field Notes, Denise Rude (NJDEP) was present during the re-sampling activities.
- Attachment C: The analytical summary tables of the data collected. These tables present the results of the re-sampling compared to the New Jersey Impact to Groundwater (IGW) and Residential Direct Contact Soil Cleanup Criteria (RDCSCC).
- Attachment D: The laboratory analytical data is provided on a compact disk (CD) electronic deliverable. A hard copy of the data is also provided as Attachment D.

104 CORPORATE PARK DRIVE BOX 751 WHITE PLAINS, NY 10602-0751 914-694-2100 fax 914-694-9286 http://www.pirnie.com

RECYCLED PAPER

MALCOLM PIRNIE

MALCOLM PIRNIE, INC.
INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS & CONSULTANTS

January 17, 2003

Lawrence Stefan Burg
Environmental Engineer
Naval Weapons Station, Earle
201 Highway 34 South
Colts Neck, New Jersey 07722-5001

Re: Re-Sampling of Soils for the Closure of Building QH-8 and Demil Storage Area
Naval Weapons Station, Earle
Colts Neck, New Jersey
USEPA ID No. NJ0 170 022 172
NJ Hazardous Waste Facility Permit No. 1309A1HP05

Dear ~~Mr. Burg~~: Larry

Please find enclosed three (3) copies of the referenced sampling report and one (1) copy of the laboratory analytical data package. If this report meets with your approval, send two (2) copies of the report to the New Jersey Department of Environmental Protection along with the laboratory analytical data package (Volume 1 through Volume 5). Retain one (1) copy for your files. Please note that the compact disk contains the entire report and the entire laboratory analytical data package.

Please call me at (914) 641-2962 should you have any questions concerning report.

Very truly yours,

MALCOLM PIRNIE, INC.

Ken

Kenneth J. Kaiser, P.E.
Senior Project Engineer

c: T. Akbas, MPI

0474-057

104 CORPORATE PARK DRIVE BOX 751 WHITE PLAINS, NY 10602-0751 914-694-2100 fax 914-694-9286 http://www.pirnie.com

RECYCLED PAPER

MALCOLM PIRNIE

MALCOLM PIRNIE, INC.
INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS & CONSULTANTS

January 17, 2003

Lawrence Stefan Burg
Environmental Engineer
Naval Weapons Station, Earle
201 Highway 34 South
Colts Neck, New Jersey 07722-5001

Re: Re-Sampling of Soils for the Closure of Building QH-8 and Demil Storage Area
Naval Weapons Station, Earle
Colts Neck, New Jersey
USEPA ID No. NJ0 170 022 172
NJ Hazardous Waste Facility Permit No. 1309A1HP05

Dear Mr. Burg:

Malcolm Pirnie is pleased to submit the supporting documentation and analytical data associated with the re-sampling effort completed in support of the *Final RCRA Certification Report for Building QH-8 and the Demil Storage Area*, dated December 1999. This re-sampling effort was completed in accordance with the July 11, 2002 Work Plan as modified by the New Jersey Department of Environmental Protection (NJDEP) letter dated October 16, 2002 (Attachment A).

In support of this re-sampling effort we have included the following attachments which should be incorporated into the *Final RCRA Certification Report for Building QH-8 and the Demil Storage Area*, dated December 1999:

- Attachment A: NJDEP, Division of Solid and Hazardous Waste letter dated October 16, 2002 conditionally approving the July 11, 2002 Work Plan. In providing approval of the Work Plan, this letter presented conditions for the completion of the work.
- Attachment B: A copy of the Field Notes from the November 20, 2002 re-sampling event. As noted in the Field Notes, Denise Rude (NJDEP) was present during the re-sampling activities.
- Attachment C: The analytical summary tables of the data collected. These tables present the results of the re-sampling compared to the New Jersey Impact to Groundwater (IGW) and Residential Direct Contact Soil Cleanup Criteria (RDCSCC).
- Attachment D: The laboratory analytical data is provided on a compact disk (CD) electronic deliverable. A hard copy of the data is also provided as Attachment D.

104 CORPORATE PARK DRIVE BOX 751 WHITE PLAINS, NY 10602-0751 914-694-2100 fax 914-694-9286 http://www.pirnie.com

RECYCLED PAPER

MALCOLM PIRNIE

We believe the information and data submitted within this letter and the attachments satisfies the NJDEP requirements for the closure of the Demil Storage Pad Area and the Building QH-8.

Please call me at (914) 641-2962 should you have any questions or concerns regarding the information or data contained in this report.

Very truly yours,

MALCOLM PIRNIE, INC.

Kenneth J. Kaiser, P.E.
Senior Project Engineer

c: T. Akbas, MPI

0474-057

RECYCLED PAPER

Attachment A

NJDEP, Division of Solid and Hazardous Waste
Letter dated October 16, 2002

State of New Jersey

James E. McGreevey
Governor

Department of Environmental Protection

Bradley M. Campbe
Commissioner

Division of Solid and Hazardous Waste
401 East State Street
P.O. Box 414
Trenton, New Jersey 08625-0414
Tel. # (609) 292-9880
Fax. # (609) 633-9839
www.state.nj.us/dep/dshw/hwtf/

A.L. Hermanni
Safety Director
By Direction of
The Commanding Officer
Department of the Navy
Naval Weapons Station Earle
201 Highway 34 South
Colts Neck, New Jersey 07722-5001

OCT 16 2002

RE: Re-Sampling of Soils for the Closure of Building QH-8 and the Demil Storage Pad, Department of the Navy, Naval Weapons Station Earle, Federal Enclave Located in Monmouth County, USEPA ID No. NJ0 170 022 172, NJ Hazardous Waste Facility Permit No. 1309A1HP05

Dear Mr. Hermanni:

The New Jersey Department of Environmental Protection (Department) is in receipt of a letter dated July 11, 2002, from Kenneth J. Kaiser, P.E., of Malcolm Pirnie, Inc. The letter includes a workplan for the re-sampling of soils for the closure of Building QH-8 and the Demil Storage Pad at Naval Weapons Station Earle (NWSE). The Department has completed a review of the July 11, 2002, letter and approves the work plan subject to the following conditions:

1. The STL-Connecticut laboratory does not have the required certifications for the methods that were proposed for soil analyses. The laboratory is not certified for various preparation and cleanup methods. In addition, the laboratory is not certified for individual analytes in the volatiles, semivolatiles, pesticides, inorganics and diesel range organics (DROs) and gasoline range (GROs) analyses. A certified laboratory must be used for all proposed methods.

2. The incorrect method was listed for nitrates in soils. The method listed in plan was ASTM D3987. The correct method is USEPA SW846 Method 9056.

3. The plan states that the volatile soils samples will be collected in 250 ml soil jars or 40 ml septa vials with the preservation being cooling to 4°C. The samples must be collected in accordance with USEPA SW846 Method 5035.

4. The Equipment Decontamination Procedures specified at Section 3.0, Page 4 is correct. However, if no obvious visual contamination is observed during the collection of the soil samples, a three (3) step decontamination procedure is also acceptable which would be the first two (2) steps in the plan.

5. The Field Custody Procedures specified at Section 5.2, Page 7 do not require field blanks when collecting soil samples for volatile analysis via methanol preservation methods. The only requirement is a methanol trip blank. Blanks are not required for any other parameters during soil sampling activities.

Ms. Kathleen Grimes of the Department's Quality Assurance Section (QAS) contacted Mr. Kaiser regarding items one through three above. On July 24, 2002, Mr. Kaiser replied to Ms. Grimes' e-mail stating that USEPA SW846 Method 9056 for the analysis of nitrates in soils will be performed by STL-Edison's laboratory. In addition, the volatile soil samples will be collected using Encore™ or equivalent field sampling containers.

On July 29, 2002, Ms. Grimes again contacted Mr. Kaiser via e-mail stating that STL-Edison was not certified for USEPA SW846 Method 9056. A list of laboratories currently certified by USEPA SW846 Method 9056 was also electronically forwarded to Mr. Kaiser.

On August 1, 2002, Mr. Kaiser contacted Ms. Grimes via e-mail stating that STL-Edison would be used for all the analysis except USEPA SW846 Method 9056, which will be performed by STL-Connecticut, which is certified for this method.

NWSE must implement the approved workplan incorporating the above conditions within sixty (60) days from the date of this letter.

NWSE must notify the Bureau of Hazardous Waste and Transfer Facilities (Bureau) in writing at least fourteen (14) calendar days prior to initiation of the soil-sampling event so that an auditor from the Department can be present. Analytical results must be submitted to the Bureau within sixty (60) days from the date of the sampling event.

Should you have any questions regarding this matter, please e-mail John Scott of my staff at john.scott@dep.state.nj.us or call him at (609) 292-9880.

Very truly yours,

Anthony Fontana

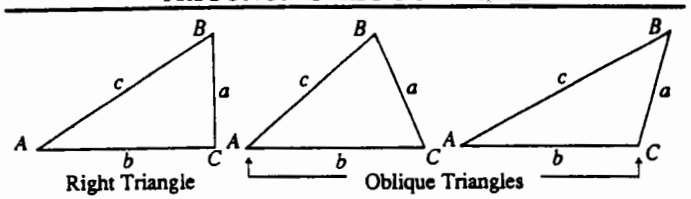
Anthony Fontana, Chief
Bureau of Hazardous Waste
and Transfer Facilities

EP58/JS
C: Kenneth J. Kaiser, Malcolm Pirnie, Inc.
Barry Tornick, USEPA, Region II
Kathleen Grimes, BEMQA
Denise Rude, BEMQA
Document: NWSE18

Attachment B

Field Notes
November 20, 2002 Re-Sampling event

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\text{cosec} = \frac{c}{a}$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B,\ c = \sqrt{a^2+b^2} = a\sqrt{1+\frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B,\ b = \sqrt{(c+a)(c-a)} = c\sqrt{1-\frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90° - A,\ b = a \cot A,\ c = \frac{a}{\sin A}.$
A, b	B, a, c	$B = 90° - A,\ a = b \tan A,\ c = \frac{b}{\cos A}.$
A, c	B, a, b	$B = 90° - A,\ a = c \sin A,\ b = c \cos A,$

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A},\ C = 180°-(A+B),\ c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a},\ C = 180° - (A+B),\ c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180° - C,\ \tan \frac{1}{2}(A-B) = \frac{(a-b)\tan\frac{1}{2}(A+B)}{a+b},$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a+b+c}{2},\ \sin\frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}},$ $\sin\frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}},\ C = 180° - (A+B)$
a, b, c	Area	$s = \frac{a+b+c}{2},\ \text{area} = \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area	$\text{area} = \frac{b\,c \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

Nov. 20, 2002.

WEATHER: CLEAR, 50'S

0845 ARRIVE @ SITE & GO THRU SECURITY CHECK & SIGN IN. MEET DENISE RUDE (NSDCP) @ SECURITY OFFICE.

0925 MEET LARRY BURE (USN) & HE ESCORTS US TO DEMIL STORAGE AREA BEGIN TO PREP EQUIPMENT. COLLECTING SOIL SAMPLES FROM AREA AROUND PAD. SAMPLES ARE BEING COLLECTED FOR VOC-TCL (METHANOL EXTRACTION METHOD), GRO (METHANOL EXTRACTION METHOD), SVOC (BNA+20), TCL-PEST/PCB, TOTAL CYANIDE, DRO, NO_2, NO_3 & TAL-METALS (MERCURY). SAMPLES @ THIS LOCATION ARE COLLECTED @ HIGHEST PID READING W/W 0-24". DECONNED SS HAND AUGER WILL BE USED TO EXCAVATE SOIL CORE (HOLE) & TCL-VOA & GRO WILL BE COLLECTED FROM SOIL WALL IN GROUND & REMAINDER OF SAMPLE WILL BE COLLECTED FROM MATERIAL HOMOGENIZED IN A SS BOWL. MARK OUT SAMPLE

(2)

11/20/02

LOCATIONS USING SITE PLAN. UNABLE TO LOCATE PVC PIPES @ S CORNER OF PAD. WILL SET LOCATION (HA-01-02) 2/0 FT FROM PAD CORNER.

1000 CALIBRATE MINI RAE PID (S/N 210285) W/ ISOBUTYLENE @ 100 PPM. SET UP TO WORK OFF BACK OF PERSONAL VEHICLE. LAY PLASTIC SHEETING ON TAILGATE. SET UP BOTTLE LABELS.

1040 BEGIN SAMPLING @ LOCATION HA-01-03. REMOVE 6" OF SOIL & SCREEN HOLE W/PID. WILL CONTINUE THIS TECHNIQUE IN 6" INTERVALS TO 24". THE TABLE ON PAGE 3 WILL DETAIL EACH SAMPLE LOCATION, TIME COLLECTED & PID READINGS. IF NO PID READING ABOVE BKGD THAN SAMPLE WILL BE COLLECTED @ 0-6" INTERVAL

1330 DENISE RUDE (NJDEP) LEAVES SITE. I WILL CONTINUE @ THIS LOCATION BEFORE MOVING TO SECOND AREA

1500 COMPLETED WORK @ DEBRIS STORAGE AREA.

11/20/02

(3)

SAMPLE LOCATION	DEPTH	PID	SAMPLE ID	TIME
HA-01-03	Ø-24"	Ø	HA-01-03-0-6	1040
HA-01-04	Ø-6"	3.4	HA-01-04-0-6	1105
	6-24"	Ø		
HA-01-02	Ø-24"	Ø	HA-01-02-0-6	1130
HA-01-12	Ø-24"	Ø	HA-01-12-0-6	1150
HA-01-11	Ø-24"	Ø	HA-01-11-0-6	1210
HA-01-10	Ø-24"	Ø	HA-01-10-0-6	1235
HA-01-09	Ø-24"	Ø	HA-01-09-0-6	1255
HA-01-08*	Ø-24"	Ø	HA-01-08-0-6	1325
HA-01-07	Ø-24"	Ø	HA-01-07-0-6	1355
HA-01-06	Ø-6"	2.0	HA-01-06-0-6	1420
	6-24"	Ø		
HA-01-05	Ø-24"	Ø	HA-01-05-0-6	1440
HA-02-08	Ø-24"	Ø	HA-02-08-0-6	1525
HA-02-04	Ø-24"	Ø	HA-02-04-0-6	1545
HA-02-03	Ø-24"	Ø	HA-02-03-0-6	1605
HA-02-02	Ø-24"	Ø	HA-02-02-0-6	1620
HA-02-06	Ø-24"	Ø	HA-02-06-0-6	1635
HA-02-05	Ø-24"	Ø	HA-02-05-06	1650
HA-02-07	Ø-24"	Ø	HA-02-07-0-6	1710

* BLIND DUP HA-01-DUP COLLECTED HERE

(4)

11/20/02

DEMOB EQUIPMENT & PACK SAMPLES IN ICED COOLER. FOLLOW ESCORT TO BLDG. QH-8 LOCATION.

1510 SET UP @ THIS AREA. ESCORT INFORMS ME OF PREVIOUS BLDG LOCATION. NO EVIDENCE OF BLDG IS VISIBLE. WILL APPROXIMATE SAMPLE LOCATIONS.

1715 COMPLETE SAMPLE COLLECTION. NO BKGD SAMPLES OR FIELD BLANKS WERE COLLECTED DURING THIS EVENT. DENISE RUDE (NJDEP) INFORMED ME AT SAMPLE START THAT THESE ARE NOT REQ'D BY THE NJDEP. ALL AUGER HEADS WERE DECONNED PRIOR TO DAY'S WORK SO NO FIELD DECON WAS REQ'D.

1725 PACKAGE ALL SAMPLES IN ICED COOLERS & DEMOB EQUIPMENT. WILL DROP OFF BADGE @ GUARDHOUSE UPON EXIT.

1730 DEPART SITE FOR STL-EDISON TO DROP OFF SAMPLE COOLERS.

11/20/02

STL EDISON
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Joe Caragine	Samplers Name (Printed): Joe Caragine	Site/Project Identification: Earle NWS Closure
Company: Malcolm Pirnie Inc.	P.O. #: 0474-057	State (Location of site): NJ: ☒ NY: ☐ Other:
		Regulatory Program:
Address: 17-17 Rte 208 N	Analysis Turnaround Time: Standard ☒	
City: Fair Lawn State: NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 201-797-7400 Fax: 201-797-4379		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No:

Sample Identification	Date	Time	Matrix	No. of. Cont.	TCL VOA+10 8260B	GRO 8015B	TCL Pest/PCB 8081A/8082	Total Cyanide 9012	DRO 8015B	TAL Metals 6010B	Mercury 7471	TCL BNA+20 8270C	Nitrate 9056	Nitrite 9056		Sample Numbers
HA-01-03-0-6	11/20/02	1040	SOIL	5	X	—	—	—	—	—	—	—	—	→		
HA-01-04-0-6	↓	1105	↓	5	X	—	—	—	—	—	—	—	—	→		
HA-01-02-0-6		1130		5	X	—	—	—	—	—	—	—	—	→		
HA-01-12-0-6		1150		5	X	—	—	—	—	—	—	—	—	→		
HA-01-11-0-6		1210		5	X	—	—	—	—	—	—	—	—	→		
HA-01-10-0-6		1235		5	X	—	—	—	—	—	—	—	—	→		
HA-01-09-0-6		1255		5	X	—	—	—	—	—	—	—	—	→		
HA-01-08-0-6		1325		5	X	—	—	—	—	—	—	—	—	→		
HA-01-07-0-6		1355		5	X	—	—	—	—	—	—	—	—	→		
HA-01-06-0-6	↓	1420	↓	5	X	—	—	—	—	—	—	—	—	→		
				Soil:	1,6	1,6	1	1	1	1	1	1	1	1		
				Water:												

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other Methanol, 7 = Other _____

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	MPI	11/20/02, 1800	1) U Pandya	STL - Edison
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

S. ED. N
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): JOE CARAGINE
Samplers Name (Printed): JOE CARAGINE
Site/Project Identification: EARLE NWS CLOSURE
Company: MALCOLM PIRNIE INC.
P.O. #: 0474-057
State (Location of site): NJ: [X] NY: [ ] Other:
Regulatory Program:
Address: 17-17 RTE 208 N
City: FAIR LAWN State: NJ
Phone: 201-797-7400 Fax: 201-797-1399

Analysis Turnaround Time
Standard [X]
Rush Charges Authorized For:
2 Week [ ]
1 Week [ ]
Other [ ]

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No:

Sample Identification	Date	Time	Matrix	No. of Cont.	TCL VOATIO 8260B	GRO 8015B	TCL PESTICIDES 8081A/8082	TOTAL CYANIDE 9012	DRO 8015B	TCL METALS 6010B	MERCURY 7471	TCL BNA+20 8270C	NITRATE 9056	NITRITE 9056		Sample Numbers
HA-01-05-0-6	11/20/02	1440	SOIL	5	X	→	→	→	→	→	→	→	→	→		
HA-02-08-0-6	↓	1525	↓	5	X	→	→	→	→	→	→	→	→	→		
HA-02-04-0-6		1545		5	X	→	→	→	→	→	→	→	→	→		
HA-02-03-0-6		1605		5	X	→	→	→	→	→	→	→	→	→		
HA-02-02-0-6		1620		5	X	→	→	→	→	→	→	→	→	→		
HA-02-06-0-6		1635		5	X	→	→	→	→	→	→	→	→	→		
HA-02-05-0-6		1650		5	X	→	→	→	→	→	→	→	→	→		
HA-02-07-0-6		1710		5	X	→	→	→	→	→	→	→	→	→		
HA-01-DUP	↓	1730	↓	5	X	→	→	→	→	→	→	→	→	→		
TRIP BLANK	—	—	AQ	1	X	→	→	→	→	→	→	→	→	→		
				Soil:	1,6	1,6	1	1	1	1	1	1	1	1		
				Water:												

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other METHANOL, 7 = Other _____

Water Metals Filtered (Yes/No)? _____

Special Instructions

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	MPI	11/20/02 1800	1) Uandya	STL-Edison
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

Attachment C

Analytical Data Summary Tables

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

BUILDING QH-8 STORAGE AREA
SOIL SAMPLES
TABLE 3-3 (REVISED - January 2003) *

PARAMETER ANALYZED	IGW	RDSCC		HA-02-02-0-6	HA-02-03-0-6	HA-02-04-0-6	HA-02-05-0-6	HA-02-06-0-6	HA-02-07-0-6	HA-02-08-0-6	Trip_Blank
	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatiles											
cis-1,2-Dichloroethene	1,000	79,000		U	U	U	U	U	U	U	U
Xylene (Total)	410,000	67,000		U	U	U	U	U	U	U	U

* = Although these chemicals were not detected in the Building QH-8 Storage Area soil samples they are included because they were detected in the Demil Pad Storage Area soil samples.
U = Not Detected
J = Estimated Value

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

BUILDING QH-8 STORAGE AREA
SOIL SAMPLES
TABLE 3-3 (REVISED - January 2003) *

PARAMETER ANALYZED	IGW	RDSCC	HA-02-02-0-6	HA-02-03-0-6	HA-02-04-0-6	HA-02-05-0-6	HA-02-06-0-6	HA-02-07-0-6	HA-02-08-0-6
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semi-Volatile Organics									
Naphthalene	100,000	230,000	23 J	U	U	U	U	29 J	U
2-Methylnaphthalene	--	--	12 J	U	U	U	U	13 J	U
Acenaphthylene	--	--	54 J	25 J	14 J	27 J	31 J	21 J	U
Acenaphthene	100,000	340,000	14 J	U	U	U	U	60 J	U
Dibenzofuran	--	--	29 J	U	U	U	U	49 J	U
Fluorene	100,000	2,300,000	30 J	8.3 J	U	U	U	90 J	U
Phenanthrene	--	--	380	140 J	50 J	57 J	43 J	1000	U
Anthracene	100,000	10,000,000(a)	34 J	52 J	14 J	17 J	22 J	210 J	U
Carbazole	--	--	46 J	11 J	U	7.7 J	U	160 J	U
Di-n-butylphthalate	100,000	5,700,000	U	U	U	U	U	U	1200 J
Fluoranthene	100,000	2,300,000	440	380	110 J	97 J	120 J	1100	81 J
Pyrene	100,000	1,700,000	380	320 J	100 J	110 J	130 J	1000	190 J
Benzo(a)anthracene	500,000	900	140	190	U	47	74	380	U
Chrysene	500,000	9,000	200 J	210 J	68 J	74 J	77 J	420	U
bis(2-Ethylhexyl)phthalate	100,000	49,000	U	U	U	U	U	U	3400 J
Benzo(b)fluoranthene	50,000	900	250	220	72	79	100	430	U
Benzo(k)fluoranthene	500,000	900	92	100	30 J	36 J	40	180	U
Benzo(a)pyrene	100,000	660 (b)	160	160	50	60	73	320	U
Indeno(1,2,3-cd)pyrene	500,000	900	65	80	32 J	44	30 J	200	U
Dibenz(a,h)anthracene	100,000	660 (b)	21 J	U	U	U	U	56	U
Benzo(g,h,i)perylene	--	--	60 J	79 J	30 J	42 J	26 J	170 J	U

* = Only those chemicals detected in one or more samples are shown.
-- = Not Available
a = Health based criterion exceeds the 10,000 mg/kg maximum for total organic contaminants.
b =Health based criterion is lower than analytical limits; cleanup criterion based on practical quantitaion level.
U = Not Detected
J = Estimated Value

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

BUILDING QH-8 STORAGE AREA
SOIL SAMPLES
TABLE 3-3 (REVISED - January 2003) *

PARAMETER ANALYZED	IGW	RDCSCC		HA-02-02-0-6	HA-02-03-0-6	HA-02-04-0-6	HA-02-05-0-6	HA-02-06-0-6	HA-02-07-0-6	HA-02-08-0-6
	ug/Kg	ug/Kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Pesticides/PCBs										
Chlordane	--	--		400	U	U	290	U	U	U
4,4'-DDD	50,000	3,000		U	U	9.2 P**	U	U	U	9.8 P**
4,4'-DDE	50,000	2,000		10	U	20	U	U	U	14
4,4'-DDT	500,000	2,000		16 P**	U	49	12 P**	U	U	31

* = Only those chemicals detected in one or more samples are shown.
IGW = Impact to Ground Water Soil Cleanup Criteria
RDCSCC = Residential Direct Contact Soil Cleanup Criteria
-- = Not Available
U = Not Detected
P = For dual column analysis, the percent difference between the quantitated concentraions on the two columns is greater than 40%.
** = For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

BUILDING QH-8 STORAGE AREA
SOIL SAMPLES
TABLE 3-3 (REVISED - January 2003) *

PARAMETER ANALYZED	Units	IGW	RDCSCC		HA-02-02-0-6	HA-02-03-0-6	HA-02-04-0-6	HA-02-05-0-6	HA-02-06-0-6	HA-02-07-0-6	HA-02-08-0-6
Total DRO	mg/Kg	--	--		18.6	15.9	20.9	5.7	17.3	12.9	11000

* = Only those chemicals detected in one or more samples are shown.
IGW = Impact to Ground Water Soil Cleanup Criteria
RDCSCC = Residential Direct Contact Soil Cleanup Criteria
-- = Not Available
U = Not Detected

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

BUILDING QH-8 STORAGE AREA
SOIL SAMPLES
TABLE 3-3 (REVISED - January 2003) *

PARAMETER ANALYZED	IGW	RDCSCC	HA-02-02-0-6		HA-02-03-0-6		HA-02-04-0-6		HA-02-05-0-6		HA-02-06-0-6		HA-02-07-0-6		HA-02-08-0-6	
	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Inorganics/Metals:																
Aluminum	--	--	5470		5460		5610		4960		5480		5520		5610	
Arsenic	(a)	20 (b)	10.1		9.5		13.1		7.8		8.9		9.4		8.5	
Barium	(a)	700	24.2	B	23.7	B	18.7	B	21	B	24.3	B	24.4	B	24	B
Beryllium	(a)	2 (b)	0.31	B	0.26	B	0.38	B	0.24	B	0.29	B	0.28	B	0.29	B
Cadmium	(a)	39	U		U		U		U		U		U		0.11	B
Calcium	--	--	897	B	753	B	569	B	690	B	1020		1110		1100	
Chromium	(c)	120,000	18.8		16.6		19.9		17		19.4		18.6		21	
Cobalt	--	--	2.5	B	1.9	B	2.6	B	1.8	B	2.1	B	2	B	2.1	B
Copper	(a)	600 (d)	7.7		8.1		8.6		6.7		7.5		8.3		7.5	
Iron	--	--	14400		13200		16400		12000		13600		13700		13400	
Lead	(a)	400 (e)	27.6		26.5		23.8		20.8		24		25.5		22.3	
Magnesium	--	--	641	B	651	B	569	B	576	B	670	B	637	B	696	B
Manganese	--	--	125		112		145		99.7		121		111		114	
Mercury	(a)	14	0.05		0.05		0.06		0.06		0.04		0.05		0.04	
Nickel	(a)	250	3.8	B	3.8	B	3.6	B	3.3	B	3.8	B	3.9	B	3.7	B
Potassium	--	--	477	B	466	B	475	B	447	B	520	B	501	B	510	B
Selenium	(a)	63	U		U		1.9		1	B	U		1.1	B	U	
Sodium	--	--	U		U		681	B	93.3	B	U		132	B	U	
Vanadium	(a)	370	25		21		25.9		21		24.2		24.4		25.1	
Zinc	(a)	1,500 (d)	27.8		25.7		37.2		24.1		25.2		26.4		26.8	

* = Only those chemicals detected in one or more samples are shown.
IGW = Impact to Ground Water Soil Cleanup Criteria
RDCSCC = Residential Direct Contact Soil Cleanup Criteria
-- = Not Available
(a) = The impact to ground water values for inorganic constituents will be developed based upon site-specific chemical and physical parameters.
(b) = Cleanup standard proposal was based on natural background.
(c) = No criterion derived for this contaminant.
(d) = Criterion based on ecological (phytotoxicity) effects.
(e) = Criterion based on the USEPA Integrated Exposure Uptake Biokinetic (IEUBK) model utilizing the default parameters. The concentration is considered to protect 95% of target population (children) at a blood lead level of 10 µg/dl.
U = Not Detected
B = Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
Bold values exceed one or both of the IGW or RDCSCC.

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

DEMIL PAD STORAGE AREA
SOIL SAMPLES
TABLE 3-4 (REVISED - January 2003) *

PARAMETER ANALYZED	IGW	RDSCC	HA-01-02-0-6	HA-01-03-0-6	HA-01-04-0-6	HA-01-05-0-6	HA-01-06-0-6	HA-01-07-0-6	HA-01-08-0-6 Duplicate of HA-01-08-0-6
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatiles									
cis-1,2-Dichloroethene	1,000	79,000	U	U	U	U	U	U	U
Xylene (Total)	410,000	67,000	U	U	U	U	U	120 J	U

PARAMETER ANALYZED	IGW	RDSCC	HA-01-09-0-6	HA-01-10-0-6	HA-01-11-0-6	HA-01-12-0-6	HA-01-DUP	Trip_Blank
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatiles								
cis-1,2-Dichloroethene	1,000	79,000	250 J	U	U	U	U	U
Xylene (Total)	410,000	67,000	U	U	U	U	U	U

* = Only those chemicals detected in one or more samples are shown.
U = Not Detected
J = Estimated Value

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

DEMIL PAD STORAGE AREA
SOIL SAMPLES
TABLE 3-4 (REVISED - January 2003) *

PARAMETER ANALYZED	IGW	RDSCC		HA-01-02-0-6	HA-01-03-0-6	HA-01-04-0-6	HA-01-05-0-6	HA-01-06-0-6	HA-01-07-0-6
	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semi-Volatile Organics									
Pentachlorophenol	100,000	6,000		U	U	U	U	U	U
Acenaphthylene	--	--		U	U	U	U	U	U
Phenanthrene	--	--		U	U	U	U	U	11 J
Carbazole	--	--		U	U	U	U	U	U
Fluoranthene	100,000	2,300,000		14 J	9 J	U	U	U	23 J
Pyrene	100,000	1,700,000		13 J	9.2 J	U	7.7 J	U	23 J
Chrysene	500,000	9,000		8.6 J	U	U	U	U	U
bis(2-Ethylhexyl)phthalate	100,000	49,000		U	75 J	91 J	U	U	130 J
Benzo(b)fluoranthene	50,000	900		10 J	U	U	U	U	19 J
Benzo(a)pyrene	100,000	660 (b)		U	U	U	U	U	14 J
Indeno(1,2,3-cd)pyrene	500,000	900		U	U	U	U	U	16 J
Benzo(g,h,i)perylene	--	--		U	U	U	U	U	18 J

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

DEMIL PAD STORAGE AREA
SOIL SAMPLES
TABLE 3-4 (REVISED - January 2003) *

PARAMETER ANALYZED	IGW	RDSCC		HA-01-08-0-6	HA-01-09-0-6	HA-01-10-0-6	HA-01-11-0-6	HA-01-12-0-6	HA-01-DUP Duplicate of HA-01-08-0-6
	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semi-Volatile Organics									
Pentachlorophenol	100,000	6,000		U	U	U	U	13 J	U
Acenaphthylene	--	--		U	U	16 J	U	U	U
Phenanthrene	--	--		U	U	U	U	U	9.9 J
Carbazole	--	--		U	U	U	U	8 J	U
Fluoranthene	100,000	2,300,000		11 J	U	8.6 J	U	U	14 J
Pyrene	100,000	1,700,000		13 J	13 J	8.1 J	U	U	15 J
Chrysene	500,000	9,000		U	U	U	U	U	9.8 J
bis(2-Ethylhexyl)phthalate	100,000	49,000		210 J	500	U	U	U	180 J
Benzo(b)fluoranthene	50,000	900		12 J	U	U	U	U	14 J
Benzo(a)pyrene	100,000	660 (b)		U	U	U	U	U	7.7 J
Indeno(1,2,3-cd)pyrene	500,000	900		U	U	U	U	U	U
Benzo(g,h,i)perylene	--	--		U	U	U	U	U	8.2 J

* = Only those chemicals detected in one or more samples are shown.
-- = Not Available
a = Health based criterion exceeds the 10,000 mg/kg maximum for total organic contaminants.
b =Health based criterion is lower than analytical limits; cleanup criterion based on practical quantitaion level.
U = Not Detected
J = Estimated Value

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

DEMIL PAD STORAGE AREA
SOIL SAMPLES
TABLE 3-4 (REVISED - January 2003) *

PARAMETER ANALYZED	IGW	RDCSCC		HA-01-02-0-6	HA-01-03-0-6	HA-01-04-0-6	HA-01-05-0-6	HA-01-06-0-6	HA-01-07-0-6	HA-01-08-0-6
	ug/Kg	ug/Kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Pesticides/PCBs										
4,4'-DDE	50,000	2,000		14	U	U	U	U	8.5	U
Aroclor-1260	--	--		220	U	U	U	U	U	U
Total PCBs	50,000	490		220	U	U	U	U	U	U

PARAMETER ANALYZED	IGW	RDCSCC		HA-01-09-0-6	HA-01-10-0-6	HA-01-11-0-6	HA-01-12-0-6	HA-01-DUP Duplicate of HA-01-08-0-6
	ug/Kg	ug/Kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Pesticides/PCBs								
4,4'-DDE	50,000	2,000		U	U	U	U	U
Aroclor-1260	--	--		92	U	U	210	U
Total PCBs	50,000	490		92	U	U	210	U

* = Only those chemicals detected in one or more samples are shown.
IGW = Impact to Ground Water Soil Cleanup Criteria
RDCSCC = Residential Direct Contact Soil Cleanup Criteria
-- = Not Available
U = Not Detected

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

DEMIL PAD STORAGE AREA
SOIL SAMPLES
TABLE 3-4 (REVISED - January 2003) *

PARAMETER ANALYZED	Units	IGW	RDCSCC		HA-01-02-0-6	HA-01-03-0-6	HA-01-04-0-6	HA-01-05-0-6	HA-01-06-0-6	HA-01-07-0-6	HA-01-08-0-6
Total DRO	mg/Kg	--	--		13.2	22.5	21.6	U	U	24.2	20

PARAMETER ANALYZED	Units	IGW	RDCSCC		HA-01-09-0-6	HA-01-10-0-6	HA-01-11-0-6	HA-01-12-0-6	HA-01-DUP Duplicate of HA-01-08-0-6
Total DRO	mg/Kg	--	--		25	47.8	4.4	242	4.9

* = Only those chemicals detected in one or more samples are shown.
IGW = Impact to Ground Water Soil Cleanup Criteria
RDCSCC = Residential Direct Contact Soil Cleanup Criteria
-- = Not Available
U = Not Detected

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

DEMIL PAD STORAGE AREA
SOIL SAMPLES
TABLE 3-4 (REVISED - January 2003) *

PARAMETER ANALYZED	IGW	RDCSCC	HA-01-02-0-6	HA-01-03-0-6	HA-01-04-0-6	HA-01-05-0-6	HA-01-06-0-6	HA-01-07-0-6	HA-01-08-0-6
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Inorganics/Metals:									
Aluminum	--	--	3740	7090	3920	8020	7020	13100	5180
Antimony	(a)	14	U	U	U	U	U	U	1.4 B
Arsenic	(a)	20 (b)	2.8	2.5	2.9	3.6	2.7	3.4	2.7
Barium	(a)	700	58.1	119	13.8 B	131	91.5	254	54.7
Beryllium	(a)	2 (b)	0.31 B	0.89	U	0.92	0.63	1.6	0.33 B
Cadmium	(a)	39	3.5	9	0.62 B	1.6	1	15.8	**52.1**
Calcium	--	--	7440	21000	843 B	21400	13500	46800	8970
Chromium	(c)	120,000	18.7	14.3	15.3	13.3	14	21	15.6
Cobalt	--	--	0.61 B	0.99 B	0.6 B	0.63 B	0.58 B	1.7 B	0.94 B
Copper	(a)	600 (d)	13.6	13.4	7.3	6.2	5.9	14.6	13.9
Iron	--	--	7040	7210	7890	6010	7980	11600	8060
Lead	(a)	400 (e)	39.4	70.6	16.8	61.8	16.5	70.8	130
Magnesium	--	--	2180	6640	493 B	6880	4440	11500	2980
Manganese	--	--	330	632	46.9	664	429	1440	314
Mercury	(a)	14	0.03 B	U	0.06	0.03 B	U	0.03 B	0.02 B
Nickel	(a)	250	2.4 B	3.2 B	2.9 B	2.4 B	2.6 B	4.5 B	3.9 B
Potassium	--	--	397 B	515 B	172 B	455 B	463 B	976 B	337 B
Selenium	(a)	63	U	1.5	U	U	0.94 B	1.5	U
Silver	(a)	110	0.34 B	1.4 B	U	U	U	U	U
Sodium	--	--	134 B	271 B	115 B	292 B	191 B	561 B	98 B
Vanadium	(a)	370	20.1	14.3	13.6	12.9	14.8	15.9	12.9
Zinc	(a)	1,500 (d)	175	216	93.6	189	64.3	522	263

NAVAL WEAPONS
STATION EARLE COUTS
NECK, N.J.
PROJECT NO. 0474057

DEMIL PAD STORAGE AREA
SOIL SAMPLES
TABLE 3-4 (REVISED - January 2003) *

PARAMETER ANALYZED	IGW	RDCSCC	HA-01-09-0-6	HA-01-10-0-6	HA-01-11-0-6	HA-01-12-0-6	HA-01-DUP Duplicate of HA-01-08-0-6
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Inorganics/Metals:							
Aluminum	--	--	7120	5730	4950	7010	6160
Antimony	(a)	14	U	U	U	U	1.9 B
Arsenic	(a)	20 (b)	2.4	2.9	3	2.7	2.7
Barium	(a)	700	75.2	55.2	22.4 B	69.7	83.4
Beryllium	(a)	2 (b)	0.56	0.41 B	0.13 B	0.54	0.54
Cadmium	(a)	39	5.3	3.7	U	2.2	**77.6**
Calcium	--	--	17100	9760	2680	11200	14900
Chromium	(c)	120,000	18.2	19	24.1	15.8	18.8
Cobalt	--	--	1.1 B	1.8 B	0.85 B	0.8 B	1.4 B
Copper	(a)	600 (d)	15.2	9	3.9 B	7	16.6
Iron	--	--	9240	10000	8770	8700	9580
Lead	(a)	400 (e)	33.8	23.1	5.2	23.1	195
Magnesium	--	--	4190	3820	965 B	3710	5830
Manganese	--	--	479	420	107	381	517
Mercury	(a)	14	0.02 B	U	U	0.09	0.03
Nickel	(a)	250	5.4 B	5.7 B	6.2 B	3 B	4.2 B
Potassium	--	--	406 B	456 B	281 B	332 B	432 B
Selenium	(a)	63	1.2	U	U	U	U
Silver	(a)	110	U	0.33 B	U	U	U
Sodium	--	--	182 B	238 B	81.9 B	157 B	323 B
Vanadium	(a)	370	14.4	17.5	17.2	17.3	13.3
Zinc	(a)	1,500 (d)	170	66.5	13.4	63.7	406

* = Only those chemicals detected in one or more samples are shown.
IGW = Impact to Ground Water Soil Cleanup Criteria
RDCSCC = Residential Direct Contact Soil Cleanup Criteria
-- = Not Available
(a) = The impact to ground water values for inorganic constituents will be developed based upon site-specific chemical and physical parameters.
(b) = Cleanup standard proposal was based on natural background.
(c) = No criterion derived for this contaminant.
(d) = Criterion based on ecological (phytotoxicity) effects.
(e) = Criterion based on the USEPA Integrated Exposure Uptake Biokinetic (IEUBK) model utilizing the default parameters. The concentration is considered to protect 95% of target population (children) at a blood lead level of 10 µg/dl.
U = Not Detected
B = Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
Bold values exceed one or both of the IGW or RDCSCC.

Attachment D

Laboratory Analytical Data CD Electronic Deliverable
(A hard copy of the data is also provided as Attachment D
under separate cover)

SEVERN TRENT STL

12/17/2002

Malcolm Pirnie, Inc.
17-17 Route 208 North
2nd Floor
Fair Lawn, NJ 07410

Attention: Mr. Joe Caragine

Laboratory Results
Job No. D092 - Earle NWS Closure

Dear Mr. Caragine:

Enclosed are the results you requested for the following sample(s) received at our laboratory on November 20, 2002.

Lab No.	Client ID	Analysis Required
392306	HA-01-03-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392307	HA-01-04-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392308	HA-01-02-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB

SEVERN TRENT STL

Laboratory Results
Job No. D092 - Earle NWS Closure (cont'd)

Lab No.	Client ID	Analysis Required
		TAL Metals
		CN
		Nitrate/Nitrite
392309	HA-01-12-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392310	HA-01-11-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392311	HA-01-10-0-6	TCL VOA+10

SEVERN TRENT STL

Laboratory Results
Job No. D092 - Earle NWS Closure (cont'd)

Lab No.	Client ID	Analysis Required
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392312	HA-01-09-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392313	HA-01-08-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals

SEVERN TRENT STL

Laboratory Results
Job No. D092 - Earle NWS Closure (cont'd)

Lab No.	Client ID	Analysis Required
		CN
		Nitrate/Nitrite
392314	HA-01-07-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392315	HA-01-06-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392316	HA-01-05-0-6	TCL VOA+10
		GRO

SEVERN TRENT STL

Laboratory Results
Job No. D092 - Earle NWS Closure (cont'd)

Lab No.	Client ID	Analysis Required
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392317	HA-02-08-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392318	HA-02-04-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN

SEVERN TRENT STL

Laboratory Results
Job No. D092 - Earle NWS Closure (cont'd)

Lab No.	Client ID	Analysis Required
		Nitrate/Nitrite
392319	HA-02-03-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392320	HA-02-02-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392321	HA-02-06-0-6	TCL VOA+10
		GRO
		TCL BNA+20

SEVERN TRENT STL

Laboratory Results
Job No. D092 - Earle NWS Closure (cont'd)

Lab No.	Client ID	Analysis Required
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392322	HA-02-05-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392323	HA-02-07-0-6	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN

SEVERN TRENT STL

Laboratory Results
Job No. D092 - Earle NWS Closure (cont'd)

Lab No.	Client ID	Analysis Required
		Nitrate/Nitrite
392324	HA-01-DUP	TCL VOA+10
		GRO
		TCL BNA+20
		DRO
		TCL Pest/PCB
		TAL Metals
		CN
		Nitrate/Nitrite
392325	Trip_Blank	TCL VOA+10

If you have any questions please contact your Project Manager, Ron Milke, at (732) 549-3900.

Very Truly Yours,

Michael J. Urban

Michael J. Urban
Laboratory Manager

A part of Severn Trent plc

Severn Trent Laboratories, Inc.
STL Edison . 777 New Durham Road, Edison, NJ 08817
Tel 732 549 3900 Fax 732 549 3679 *www.stl-inc.com*

ACCREDITED IN ACCORDANCE WITH nelac

Analytical Results Summary **1**

General Information **233**
Chain of Custody 233
Laboratory Chronicles 236
Methodology Review 264
Data Reporting Qualifiers 268
Non-Conformance Summary 270

GC/MS Forms and Data (Volatiles) **273**
Results Summary and Chromatograms 273
Tuning Results Summary 356
Method Blank Results Summary 373

VOLUME 2 ..... **398**
Calibration Summary 399
Surrogate Compound Recovery Summary 452
Spike Recovery Summary 455
Internal Standard Area and RT Summary 466
Injection Log Book 470

GC/ FID Forms and Data (GRO) **475**
Results Summary and Chromatograms 475
Method Blank Results Summary 514
Standards Summary 521
Surrogate Compound Recovery Summary 533
Spike Recovery Summary 535
Injection Log Book 540

GC/MS Forms and Data (Semivolatiles) **544**
Results Summary and Chromatograms 544

VOLUME 3 ..... **807**
Tuning Results Summary 918
Method Blank Results Summary 954
Calibration Summary 986
Surrogate Compound Recovery Summary 1089
Spike Recovery Summary 1091
Internal Standard Area and RT Summary 1108
Injection Log Book 1121

GC/ FID Forms and Data (DRO) **1137**
Results Summary and Chromatograms 1137
Method Blank Results Summary 1195

VOLUME 4 ..... **1204**
Standards Summary 1205
Surrogate Compound Recovery Summary 1251
Spike Recovery Summary 1253
Injection Log Book 1267

GC Forms and Data **1273**
Method 8081 (Pesticides) Results Summary 1273

QA Summary 1293
Analytical Sequence 1305
Raw Data 1309
Injection Log Book 1487
Method 8082 (PCBs) Results Summary 1498
QA Summary 1518
Analytical Sequence 1526
Raw Data 1529

VOLUME 5 1597
Injection Log Book 1636

Metals Forms and Data 1644
Analytical Results Summary 1644
Blank Results Summary 1664
Calibration Summary 1667
ICP Interference Check Results Summary 1671
Spike Sample Recovery Summary 1673
Sample and MS Duplicate Results Summary 1677
Laboratory Control Samples Results Summary 1681
Serial Dilution Summary 1683
Analysis Run Log 1685
Raw Data 1691

General Chemistry Forms 1793
Analytical Results Summary 1793
QA Summary 1795
Raw Data 1797

Subwork 1820

This is the Last Page of the Document 1941

Analytical Results Summary

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21277.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	370
Acetone	ND	620
Carbon Disulfide	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
2-Butanone	ND	620
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	370
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
Bromoform	ND	490
4-Methyl-2-Pentanone	ND	620
2-Hexanone	ND	620
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	490
Styrene	ND	620
Xylene (Total)	ND	620

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21277.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.3

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21278.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	670
Bromomethane	ND	670
Vinyl Chloride	ND	670
Chloroethane	ND	670
Methylene Chloride	ND	400
Acetone	ND	670
Carbon Disulfide	ND	670
1,1-Dichloroethene	ND	270
1,1-Dichloroethane	ND	670
trans-1,2-Dichloroethene	ND	670
cis-1,2-Dichloroethene	ND	670
Chloroform	ND	670
1,2-Dichloroethane	ND	270
2-Butanone	ND	670
1,1,1-Trichloroethane	ND	670
Carbon Tetrachloride	ND	270
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	670
Trichloroethene	ND	130
Dibromochloromethane	ND	670
1,1,2-Trichloroethane	ND	400
Benzene	ND	130
trans-1,3-Dichloropropene	ND	670
Bromoform	ND	540
4-Methyl-2-Pentanone	ND	670
2-Hexanone	ND	670
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	670
Chlorobenzene	ND	670
Ethylbenzene	ND	540
Styrene	ND	670
Xylene (Total)	ND	670

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21278.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9.4

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21279.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	600
Bromomethane	ND	600
Vinyl Chloride	ND	600
Chloroethane	ND	600
Methylene Chloride	ND	360
Acetone	ND	600
Carbon Disulfide	ND	600
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND	600
trans-1,2-Dichloroethene	ND	600
cis-1,2-Dichloroethene	ND	600
Chloroform	ND	600
1,2-Dichloroethane	ND	240
2-Butanone	ND	600
1,1,1-Trichloroethane	ND	600
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	600
Trichloroethene	ND	120
Dibromochloromethane	ND	600
1,1,2-Trichloroethane	ND	360
Benzene	ND	120
trans-1,3-Dichloropropene	ND	600
Bromoform	ND	480
4-Methyl-2-Pentanone	ND	600
2-Hexanone	ND	600
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	600
Chlorobenzene	ND	600
Ethylbenzene	ND	480
Styrene	ND	600
Xylene (Total)	ND	600

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21279.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21280.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	590
Bromomethane	ND	590
Vinyl Chloride	ND	590
Chloroethane	ND	590
Methylene Chloride	ND	360
Acetone	ND	590
Carbon Disulfide	ND	590
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND	590
trans-1,2-Dichloroethene	ND	590
cis-1,2-Dichloroethene	ND	590
Chloroform	ND	590
1,2-Dichloroethane	ND	240
2-Butanone	ND	590
1,1,1-Trichloroethane	ND	590
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	590
Trichloroethene	ND	120
Dibromochloromethane	ND	590
1,1,2-Trichloroethane	ND	360
Benzene	ND	120
trans-1,3-Dichloropropene	ND	590
Bromoform	ND	480
4-Methyl-2-Pentanone	ND	590
2-Hexanone	ND	590
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	590
Chlorobenzene	ND	590
Ethylbenzene	ND	480
Styrene	ND	590
Xylene (Total)	ND	590

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21280.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21281.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.7 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 6

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	570
Bromomethane	ND	570
Vinyl Chloride	ND	570
Chloroethane	ND	570
Methylene Chloride	ND	340
Acetone	ND	570
Carbon Disulfide	ND	570
1,1-Dichloroethene	ND	230
1,1-Dichloroethane	ND	570
trans-1,2-Dichloroethene	ND	570
cis-1,2-Dichloroethene	ND	570
Chloroform	ND	570
1,2-Dichloroethane	ND	230
2-Butanone	ND	570
1,1,1-Trichloroethane	ND	570
Carbon Tetrachloride	ND	230
Bromodichloromethane	ND	110
1,2-Dichloropropane	ND	110
cis-1,3-Dichloropropene	ND	570
Trichloroethene	ND	110
Dibromochloromethane	ND	570
1,1,2-Trichloroethane	ND	340
Benzene	ND	110
trans-1,3-Dichloropropene	ND	570
Bromoform	ND	450
4-Methyl-2-Pentanone	ND	570
2-Hexanone	ND	570
Tetrachloroethene	ND	110
1,1,2,2-Tetrachloroethane	ND	110
Toluene	ND	570
Chlorobenzene	ND	570
Ethylbenzene	ND	450
Styrene	ND	570
Xylene (Total)	ND	570

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21281.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.7 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 5.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21282.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	630
Bromomethane	ND	630
Vinyl Chloride	ND	630
Chloroethane	ND	630
Methylene Chloride	ND	380
Acetone	ND	630
Carbon Disulfide	ND	630
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	630
trans-1,2-Dichloroethene	ND	630
cis-1,2-Dichloroethene	ND	630
Chloroform	ND	630
1,2-Dichloroethane	ND	250
2-Butanone	ND	630
1,1,1-Trichloroethane	ND	630
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	630
Trichloroethene	ND	130
Dibromochloromethane	ND	630
1,1,2-Trichloroethane	ND	380
Benzene	ND	130
trans-1,3-Dichloropropene	ND	630
Bromoform	ND	500
4-Methyl-2-Pentanone	ND	630
2-Hexanone	ND	630
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	630
Chlorobenzene	ND	630
Ethylbenzene	ND	500
Styrene	ND	630
Xylene (Total)	ND	630

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21282.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.1

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21296.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.8 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	590
Bromomethane	ND	590
Vinyl Chloride	ND	590
Chloroethane	ND	590
Methylene Chloride	ND	360
Acetone	ND	590
Carbon Disulfide	ND	590
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND	590
trans-1,2-Dichloroethene	ND	590
cis-1,2-Dichloroethene	250 J	590
Chloroform	ND	590
1,2-Dichloroethane	ND	240
2-Butanone	ND	590
1,1,1-Trichloroethane	ND	590
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	590
Trichloroethene	ND	120
Dibromochloromethane	ND	590
1,1,2-Trichloroethane	ND	360
Benzene	ND	120
trans-1,3-Dichloropropene	ND	590
Bromoform	ND	480
4-Methyl-2-Pentanone	ND	590
2-Hexanone	ND	590
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	590
Chlorobenzene	ND	590
Ethylbenzene	ND	480
Styrene	ND	590
Xylene (Total)	ND	590

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21296.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.8 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21297.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	370
Acetone	ND	620
Carbon Disulfide	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
2-Butanone	ND	620
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	370
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
Bromoform	ND	500
4-Methyl-2-Pentanone	ND	620
2-Hexanone	ND	620
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Styrene	ND	620
Xylene (Total)	ND	620

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21297.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21298.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	630
Bromomethane	ND	630
Vinyl Chloride	ND	630
Chloroethane	ND	630
Methylene Chloride	ND	380
Acetone	ND	630
Carbon Disulfide	ND	630
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	630
trans-1,2-Dichloroethene	ND	630
cis-1,2-Dichloroethene	ND	630
Chloroform	ND	630
1,2-Dichloroethane	ND	250
2-Butanone	ND	630
1,1,1-Trichloroethane	ND	630
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	630
Trichloroethene	ND	130
Dibromochloromethane	ND	630
1,1,2-Trichloroethane	ND	380
Benzene	ND	130
trans-1,3-Dichloropropene	ND	630
Bromoform	ND	500
4-Methyl-2-Pentanone	ND	630
2-Hexanone	ND	630
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	630
Chlorobenzene	ND	630
Ethylbenzene	ND	500
Styrene	ND	630
Xylene (Total)	120 J	630

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21298.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12.4

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21299.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	630
Bromomethane	ND	630
Vinyl Chloride	ND	630
Chloroethane	ND	630
Methylene Chloride	ND	380
Acetone	ND	630
Carbon Disulfide	ND	630
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	630
trans-1,2-Dichloroethene	ND	630
cis-1,2-Dichloroethene	ND	630
Chloroform	ND	630
1,2-Dichloroethane	ND	250
2-Butanone	ND	630
1,1,1-Trichloroethane	ND	630
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	630
Trichloroethene	ND	130
Dibromochloromethane	ND	630
1,1,2-Trichloroethane	ND	380
Benzene	ND	130
trans-1,3-Dichloropropene	ND	630
Bromoform	ND	510
4-Methyl-2-Pentanone	ND	630
2-Hexanone	ND	630
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	630
Chlorobenzene	ND	630
Ethylbenzene	ND	510
Styrene	ND	630
Xylene (Total)	ND	630

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21299.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.4

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21300.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	370
Acetone	ND	620
Carbon Disulfide	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
2-Butanone	ND	620
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	370
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
Bromoform	ND	490
4-Methyl-2-Pentanone	ND	620
2-Hexanone	ND	620
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	490
Styrene	ND	620
Xylene (Total)	ND	620

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21300.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.7

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21301.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	730
Bromomethane	ND	730
Vinyl Chloride	ND	730
Chloroethane	ND	730
Methylene Chloride	ND	440
Acetone	ND	730
Carbon Disulfide	ND	730
1,1-Dichloroethene	ND	290
1,1-Dichloroethane	ND	730
trans-1,2-Dichloroethene	ND	730
cis-1,2-Dichloroethene	ND	730
Chloroform	ND	730
1,2-Dichloroethane	ND	290
2-Butanone	ND	730
1,1,1-Trichloroethane	ND	730
Carbon Tetrachloride	ND	290
Bromodichloromethane	ND	150
1,2-Dichloropropane	ND	150
cis-1,3-Dichloropropene	ND	730
Trichloroethene	ND	150
Dibromochloromethane	ND	730
1,1,2-Trichloroethane	ND	440
Benzene	ND	150
trans-1,3-Dichloropropene	ND	730
Bromoform	ND	590
4-Methyl-2-Pentanone	ND	730
2-Hexanone	ND	730
Tetrachloroethene	ND	150
1,1,2,2-Tetrachloroethane	ND	150
Toluene	ND	730
Chlorobenzene	ND	730
Ethylbenzene	ND	590
Styrene	ND	730
Xylene (Total)	ND	730

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21301.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.4

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21302.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	660
Bromomethane	ND	660
Vinyl Chloride	ND	660
Chloroethane	ND	660
Methylene Chloride	ND	390
Acetone	ND	660
Carbon Disulfide	ND	660
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	660
trans-1,2-Dichloroethene	ND	660
cis-1,2-Dichloroethene	ND	660
Chloroform	ND	660
1,2-Dichloroethane	ND	260
2-Butanone	ND	660
1,1,1-Trichloroethane	ND	660
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	660
Trichloroethene	ND	130
Dibromochloromethane	ND	660
1,1,2-Trichloroethane	ND	390
Benzene	ND	130
trans-1,3-Dichloropropene	ND	660
Bromoform	ND	520
4-Methyl-2-Pentanone	ND	660
2-Hexanone	ND	660
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	660
Chlorobenzene	ND	660
Ethylbenzene	ND	520
Styrene	ND	660
Xylene (Total)	ND	660

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21302.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21303.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	740
Bromomethane	ND	740
Vinyl Chloride	ND	740
Chloroethane	ND	740
Methylene Chloride	ND	440
Acetone	ND	740
Carbon Disulfide	ND	740
1,1-Dichloroethene	ND	300
1,1-Dichloroethane	ND	740
trans-1,2-Dichloroethene	ND	740
cis-1,2-Dichloroethene	ND	740
Chloroform	ND	740
1,2-Dichloroethane	ND	300
2-Butanone	ND	740
1,1,1-Trichloroethane	ND	740
Carbon Tetrachloride	ND	300
Bromodichloromethane	ND	150
1,2-Dichloropropane	ND	150
cis-1,3-Dichloropropene	ND	740
Trichloroethene	ND	150
Dibromochloromethane	ND	740
1,1,2-Trichloroethane	ND	440
Benzene	ND	150
trans-1,3-Dichloropropene	ND	740
Bromoform	ND	590
4-Methyl-2-Pentanone	ND	740
2-Hexanone	ND	740
Tetrachloroethene	ND	150
1,1,2,2-Tetrachloroethane	ND	150
Toluene	ND	740
Chlorobenzene	ND	740
Ethylbenzene	ND	590
Styrene	ND	740
Xylene (Total)	ND	740

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21303.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21304.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	650
Bromomethane	ND	650
Vinyl Chloride	ND	650
Chloroethane	ND	650
Methylene Chloride	ND	390
Acetone	ND	650
Carbon Disulfide	ND	650
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	650
trans-1,2-Dichloroethene	ND	650
cis-1,2-Dichloroethene	ND	650
Chloroform	ND	650
1,2-Dichloroethane	ND	260
2-Butanone	ND	650
1,1,1-Trichloroethane	ND	650
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	650
Trichloroethene	ND	130
Dibromochloromethane	ND	650
1,1,2-Trichloroethane	ND	390
Benzene	ND	130
trans-1,3-Dichloropropene	ND	650
Bromoform	ND	520
4-Methyl-2-Pentanone	ND	650
2-Hexanone	ND	650
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	650
Chlorobenzene	ND	650
Ethylbenzene	ND	520
Styrene	ND	650
Xylene (Total)	ND	650

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21304.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21305.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	590
Bromomethane	ND	590
Vinyl Chloride	ND	590
Chloroethane	ND	590
Methylene Chloride	ND	350
Acetone	ND	590
Carbon Disulfide	ND	590
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND	590
trans-1,2-Dichloroethene	ND	590
cis-1,2-Dichloroethene	ND	590
Chloroform	ND	590
1,2-Dichloroethane	ND	240
2-Butanone	ND	590
1,1,1-Trichloroethane	ND	590
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	590
Trichloroethene	ND	120
Dibromochloromethane	ND	590
1,1,2-Trichloroethane	ND	350
Benzene	ND	120
trans-1,3-Dichloropropene	ND	590
Bromoform	ND	470
4-Methyl-2-Pentanone	ND	590
2-Hexanone	ND	590
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	590
Chlorobenzene	ND	590
Ethylbenzene	ND	470
Styrene	ND	590
Xylene (Total)	ND	590

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21305.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21306.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	710
Bromomethane	ND	710
Vinyl Chloride	ND	710
Chloroethane	ND	710
Methylene Chloride	ND	420
Acetone	ND	710
Carbon Disulfide	ND	710
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	710
trans-1,2-Dichloroethene	ND	710
cis-1,2-Dichloroethene	ND	710
Chloroform	ND	710
1,2-Dichloroethane	ND	280
2-Butanone	ND	710
1,1,1-Trichloroethane	ND	710
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	710
Trichloroethene	ND	140
Dibromochloromethane	ND	710
1,1,2-Trichloroethane	ND	420
Benzene	ND	140
trans-1,3-Dichloropropene	ND	710
Bromoform	ND	570
4-Methyl-2-Pentanone	ND	710
2-Hexanone	ND	710
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	710
Chlorobenzene	ND	710
Ethylbenzene	ND	570
Styrene	ND	710
Xylene (Total)	ND	710

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21306.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21307.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	590
Bromomethane	ND	590
Vinyl Chloride	ND	590
Chloroethane	ND	590
Methylene Chloride	ND	350
Acetone	ND	590
Carbon Disulfide	ND	590
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND	590
trans-1,2-Dichloroethene	ND	590
cis-1,2-Dichloroethene	ND	590
Chloroform	ND	590
1,2-Dichloroethane	ND	240
2-Butanone	ND	590
1,1,1-Trichloroethane	ND	590
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	590
Trichloroethene	ND	120
Dibromochloromethane	ND	590
1,1,2-Trichloroethane	ND	350
Benzene	ND	120
trans-1,3-Dichloropropene	ND	590
Bromoform	ND	470
4-Methyl-2-Pentanone	ND	590
2-Hexanone	ND	590
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	590
Chlorobenzene	ND	590
Ethylbenzene	ND	470
Styrene	ND	590
Xylene (Total)	ND	590

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21307.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21324.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	640
Bromomethane	ND	640
Vinyl Chloride	ND	640
Chloroethane	ND	640
Methylene Chloride	ND	390
Acetone	ND	640
Carbon Disulfide	ND	640
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	640
trans-1,2-Dichloroethene	ND	640
cis-1,2-Dichloroethene	ND	640
Chloroform	ND	640
1,2-Dichloroethane	ND	260
2-Butanone	ND	640
1,1,1-Trichloroethane	ND	640
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	640
Trichloroethene	ND	130
Dibromochloromethane	ND	640
1,1,2-Trichloroethane	ND	390
Benzene	ND	130
trans-1,3-Dichloropropene	ND	640
Bromoform	ND	520
4-Methyl-2-Pentanone	ND	640
2-Hexanone	ND	640
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	640
Chlorobenzene	ND	640
Ethylbenzene	ND	520
Styrene	ND	640
Xylene (Total)	ND	640

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21324.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **Trip_Blank**
Site: Earle NWS Closure

Lab Sample No: **392325**
Lab Job No: D092

Date Sampled: 11/19/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21325.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	380
Acetone	ND	620
Carbon Disulfide	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
2-Butanone	ND	620
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
Bromoform	ND	500
4-Methyl-2-Pentanone	ND	620
2-Hexanone	ND	620
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Styrene	ND	620
Xylene (Total)	ND	620

Client ID: **Trip_Blank**
Site: Earle NWS Closure

Lab Sample No: **392325**
Lab Job No: D092

Date Sampled: 11/19/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21325.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5010.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.3

GASOLINE RANGE ORGANICS - GC/FID (GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5900

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5011.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9.4

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6400

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5012.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9.6

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5900

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5013.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.6

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6400

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5014.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 5.9

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5600

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5015.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.1

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6300

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5016.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.9

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6600

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5017.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.0

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5900

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5018.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12.4

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5900

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5019.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.4

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6000

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5023.d

Matrix: SOIL
Level: MED
Sample Weight: 10 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.7

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	7100

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5024.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.4

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6400

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5025.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.0

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6200

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5026.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12.2

GASOLINE RANGE ORGANICS - GC/FID (GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6600

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5027.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.5

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5800

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5028.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.0

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6000

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5029.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6600

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5030.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6200

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5031.d

Matrix: SOIL
Level: MED
Sample Weight: 10 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	7000

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8122.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	360
2-Chlorophenol	ND	360
2-Methylphenol	ND	360
4-Methylphenol	ND	360
2-Nitrophenol	ND	360
2,4-Dimethylphenol	ND	360
2,4-Dichlorophenol	ND	360
4-Chloro-3-methylphenol	ND	360
2,4,6-Trichlorophenol	ND	360
2,4,5-Trichlorophenol	ND	360
2,4-Dinitrophenol	ND	1400
4-Nitrophenol	ND	1400
4,6-Dinitro-2-methylphenol	ND	1400
Pentachlorophenol	ND	1400

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8122.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	36
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
bis(2-chloroisopropyl)ether	ND	360
N-Nitroso-di-n-propylamine	ND	36
Hexachloroethane	ND	36
Nitrobenzene	ND	36
Isophorone	ND	360
bis(2-Chloroethoxy)methane	ND	360
1,2,4-Trichlorobenzene	ND	36
Naphthalene	ND	360
4-Chloroaniline	ND	360
Hexachlorobutadiene	ND	72
2-Methylnaphthalene	ND	360
Hexachlorocyclopentadiene	ND	360
2-Chloronaphthalene	ND	360
2-Nitroaniline	ND	720
Dimethylphthalate	ND	360
Acenaphthylene	ND	360
2,6-Dinitrotoluene	ND	72
3-Nitroaniline	ND	720
Acenaphthene	ND	360
Dibenzofuran	ND	360
2,4-Dinitrotoluene	ND	72
Diethylphthalate	ND	360
4-Chlorophenyl-phenylether	ND	360
Fluorene	ND	360
4-Nitroaniline	ND	720
N-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	36
Phenanthrene	ND	360
Anthracene	ND	360

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8122.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	360
Di-n-butylphthalate	ND	360
Fluoranthene	9.0J	360
Pyrene	9.2J	360
Butylbenzylphthalate	ND	360
3,3'-Dichlorobenzidine	ND	720
Benzo(a)anthracene	ND	36
Chrysene	ND	360
bis(2-Ethylhexyl)phthalate	75 J	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	ND	36
Benzo(k)fluoranthene	ND	36
Benzo(a)pyrene	ND	36
Indeno(1,2,3-cd)pyrene	ND	36
Dibenz(a,h)anthracene	ND	36
Benzo(g,h,i)perylene	ND	360

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8122.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 7.3

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. C14H30 Alkane	17.17	320	
2. C15H32 Alkane	18.05	320	
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 640

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8123.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8123.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	74
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	ND	370
2,6-Dinitrotoluene	ND	74
3-Nitroaniline	ND	740
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	740
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8123.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	ND	370
Pyrene	ND	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	37
Chrysene	ND	370
bis(2-Ethylhexyl)phthalate	91 J	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	ND	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8123.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9.4

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8105.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8105.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	74
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	ND	370
2,6-Dinitrotoluene	ND	74
3-Nitroaniline	ND	740
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	740
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8105.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	14 J	370
Pyrene	13 J	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	37
Chrysene	8.6J	370
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	10 J	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8105.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9.6

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8120.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	360
2-Chlorophenol	ND	360
2-Methylphenol	ND	360
4-Methylphenol	ND	360
2-Nitrophenol	ND	360
2,4-Dimethylphenol	ND	360
2,4-Dichlorophenol	ND	360
4-Chloro-3-methylphenol	ND	360
2,4,6-Trichlorophenol	ND	360
2,4,5-Trichlorophenol	ND	360
2,4-Dinitrophenol	ND	1400
4-Nitrophenol	ND	1400
4,6-Dinitro-2-methylphenol	ND	1400
Pentachlorophenol	13 J	1400

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8120.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	36
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
bis(2-chloroisopropyl)ether	ND	360
N-Nitroso-di-n-propylamine	ND	36
Hexachloroethane	ND	36
Nitrobenzene	ND	36
Isophorone	ND	360
bis(2-Chloroethoxy)methane	ND	360
1,2,4-Trichlorobenzene	ND	36
Naphthalene	ND	360
4-Chloroaniline	ND	360
Hexachlorobutadiene	ND	73
2-Methylnaphthalene	ND	360
Hexachlorocyclopentadiene	ND	360
2-Chloronaphthalene	ND	360
2-Nitroaniline	ND	730
Dimethylphthalate	ND	360
Acenaphthylene	ND	360
2,6-Dinitrotoluene	ND	73
3-Nitroaniline	ND	730
Acenaphthene	ND	360
Dibenzofuran	ND	360
2,4-Dinitrotoluene	ND	73
Diethylphthalate	ND	360
4-Chlorophenyl-phenylether	ND	360
Fluorene	ND	360
4-Nitroaniline	ND	730
N-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	36
Phenanthrene	ND	360
Anthracene	ND	360

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8120.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	8.0J	360
Di-n-butylphthalate	ND	360
Fluoranthene	ND	360
Pyrene	ND	360
Butylbenzylphthalate	ND	360
3,3'-Dichlorobenzidine	ND	730
Benzo(a)anthracene	ND	36
Chrysene	ND	360
bis(2-Ethylhexyl)phthalate	ND	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	ND	36
Benzo(k)fluoranthene	ND	36
Benzo(a)pyrene	ND	36
Indeno(1,2,3-cd)pyrene	ND	36
Dibenz(a,h)anthracene	ND	36
Benzo(g,h,i)perylene	ND	360

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8120.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 8.6

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown	13.19	350	
2.	Unknown	13.24	330	
3.	Unknown	18.21	410	
4.	Unknown	19.46	490	
5.	Unknown	26.23	380	
6.	Unknown	30.90	1200	
7.	Unknown	32.24	690	
8.	Unknown	34.12	340	
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 4190

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8117.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 6

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	350
2-Chlorophenol	ND	350
2-Methylphenol	ND	350
4-Methylphenol	ND	350
2-Nitrophenol	ND	350
2,4-Dimethylphenol	ND	350
2,4-Dichlorophenol	ND	350
4-Chloro-3-methylphenol	ND	350
2,4,6-Trichlorophenol	ND	350
2,4,5-Trichlorophenol	ND	350
2,4-Dinitrophenol	ND	1400
4-Nitrophenol	ND	1400
4,6-Dinitro-2-methylphenol	ND	1400
Pentachlorophenol	ND	1400

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8117.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 6

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	35
1,3-Dichlorobenzene	ND	350
1,4-Dichlorobenzene	ND	350
1,2-Dichlorobenzene	ND	350
bis(2-chloroisopropyl)ether	ND	350
N-Nitroso-di-n-propylamine	ND	35
Hexachloroethane	ND	35
Nitrobenzene	ND	35
Isophorone	ND	350
bis(2-Chloroethoxy)methane	ND	350
1,2,4-Trichlorobenzene	ND	35
Naphthalene	ND	350
4-Chloroaniline	ND	350
Hexachlorobutadiene	ND	71
2-Methylnaphthalene	ND	350
Hexachlorocyclopentadiene	ND	350
2-Chloronaphthalene	ND	350
2-Nitroaniline	ND	710
Dimethylphthalate	ND	350
Acenaphthylene	ND	350
2,6-Dinitrotoluene	ND	71
3-Nitroaniline	ND	710
Acenaphthene	ND	350
Dibenzofuran	ND	350
2,4-Dinitrotoluene	ND	71
Diethylphthalate	ND	350
4-Chlorophenyl-phenylether	ND	350
Fluorene	ND	350
4-Nitroaniline	ND	710
N-Nitrosodiphenylamine	ND	350
4-Bromophenyl-phenylether	ND	350
Hexachlorobenzene	ND	35
Phenanthrene	ND	350
Anthracene	ND	350

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8117.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 6

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	350
Di-n-butylphthalate	ND	350
Fluoranthene	ND	350
Pyrene	ND	350
Butylbenzylphthalate	ND	350
3,3'-Dichlorobenzidine	ND	710
Benzo(a)anthracene	ND	35
Chrysene	ND	350
bis(2-Ethylhexyl)phthalate	ND	350
Di-n-octylphthalate	ND	350
Benzo(b)fluoranthene	ND	35
Benzo(k)fluoranthene	ND	35
Benzo(a)pyrene	ND	35
Indeno(1,2,3-cd)pyrene	ND	35
Dibenz(a,h)anthracene	ND	35
Benzo(g,h,i)perylene	ND	350

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8117.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 5.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8118.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8118.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	74
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	16 J	370
2,6-Dinitrotoluene	ND	74
3-Nitroaniline	ND	740
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	740
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8118.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	8.6J	370
Pyrene	8.1J	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	37
Chrysene	ND	370
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	ND	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8118.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.1

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8251.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8251.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	75
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	750
Dimethylphthalate	ND	370
Acenaphthylene	ND	370
2,6-Dinitrotoluene	ND	75
3-Nitroaniline	ND	750
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	75
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	750
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8251.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	ND	370
Pyrene	13 J	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	750
Benzo(a)anthracene	ND	37
Chrysene	ND	370
bis(2-Ethylhexyl)phthalate	500	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	ND	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8251.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. 1,3-Isobenzofurandione	16.10	490	
2. Unknown	18.24	610	
3. Unknown Alkane	27.00	350	
4. Unknown	38.82	2200	
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		3650	

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8126.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8126.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	74
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	ND	370
2,6-Dinitrotoluene	ND	74
3-Nitroaniline	ND	740
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	740
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8126.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	11 J	370
Pyrene	13 J	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	37
Chrysene	ND	370
bis(2-Ethylhexyl)phthalate	210 J	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	12 J	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8126.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Organic Acid	9.76	500	
2. 4-TOLUENESULFONAMIDE	19.57	470	
3. Unknown	24.48	320	
4. Unknown	26.18	660	
5. Unknown Alkane	27.92	320	
6. Unknown	29.70	380	
7. Unknown	33.20	370	
8. Unknown	36.78	630	
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 3650

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8121.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8121.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	ND	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	ND	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	11 J	380
Anthracene	ND	380

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8121.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	380
Di-n-butylphthalate	ND	380
Fluoranthene	23 J	380
Pyrene	23 J	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	ND	38
Chrysene	ND	380
bis(2-Ethylhexyl)phthalate	130 J	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	19 J	38
Benzo(k)fluoranthene	ND	38
Benzo(a)pyrene	14 J	38
Indeno(1,2,3-cd)pyrene	16 J	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	18 J	380

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8121.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12.4

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8119.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8119.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	74
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	ND	370
2,6-Dinitrotoluene	ND	74
3-Nitroaniline	ND	740
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	740
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8119.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	ND	370
Pyrene	ND	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	37
Chrysene	ND	370
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	ND	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8119.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.4

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8106.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8106.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	ND	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	ND	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	ND	380
Anthracene	ND	380

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8106.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	380
Di-n-butylphthalate	ND	380
Fluoranthene	ND	380
Pyrene	7.7J	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	ND	38
Chrysene	ND	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	ND	38
Benzo(k)fluoranthene	ND	38
Benzo(a)pyrene	ND	38
Indeno(1,2,3-cd)pyrene	ND	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	ND	380

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8106.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.7

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8136.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	3700
2-Chlorophenol	ND	3700
2-Methylphenol	ND	3700
4-Methylphenol	ND	3700
2-Nitrophenol	ND	3700
2,4-Dimethylphenol	ND	3700
2,4-Dichlorophenol	ND	3700
4-Chloro-3-methylphenol	ND	3700
2,4,6-Trichlorophenol	ND	3700
2,4,5-Trichlorophenol	ND	3700
2,4-Dinitrophenol	ND	15000
4-Nitrophenol	ND	15000
4,6-Dinitro-2-methylphenol	ND	15000
Pentachlorophenol	ND	15000

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8136.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	370
1,3-Dichlorobenzene	ND	3700
1,4-Dichlorobenzene	ND	3700
1,2-Dichlorobenzene	ND	3700
bis(2-chloroisopropyl)ether	ND	3700
N-Nitroso-di-n-propylamine	ND	370
Hexachloroethane	ND	370
Nitrobenzene	ND	370
Isophorone	ND	3700
bis(2-Chloroethoxy)methane	ND	3700
1,2,4-Trichlorobenzene	ND	370
Naphthalene	ND	3700
4-Chloroaniline	ND	3700
Hexachlorobutadiene	ND	740
2-Methylnaphthalene	ND	3700
Hexachlorocyclopentadiene	ND	3700
2-Chloronaphthalene	ND	3700
2-Nitroaniline	ND	7400
Dimethylphthalate	ND	3700
Acenaphthylene	ND	3700
2,6-Dinitrotoluene	ND	740
3-Nitroaniline	ND	7400
Acenaphthene	ND	3700
Dibenzofuran	ND	3700
2,4-Dinitrotoluene	ND	740
Diethylphthalate	ND	3700
4-Chlorophenyl-phenylether	ND	3700
Fluorene	ND	3700
4-Nitroaniline	ND	7400
N-Nitrosodiphenylamine	ND	3700
4-Bromophenyl-phenylether	ND	3700
Hexachlorobenzene	ND	370
Phenanthrene	ND	3700
Anthracene	ND	3700

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8136.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	3700
Di-n-butylphthalate	1200 J	3700
Fluoranthene	81 J	3700
Pyrene	190 J	3700
Butylbenzylphthalate	ND	3700
3,3'-Dichlorobenzidine	ND	7400
Benzo(a)anthracene	ND	370
Chrysene	ND	3700
bis(2-Ethylhexyl)phthalate	3400 J	3700
Di-n-octylphthalate	ND	3700
Benzo(b)fluoranthene	ND	370
Benzo(k)fluoranthene	ND	370
Benzo(a)pyrene	ND	370
Indeno(1,2,3-cd)pyrene	ND	370
Dibenz(a,h)anthracene	ND	370
Benzo(g,h,i)perylene	ND	3700

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8136.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.4

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. 1-Hexanol, 2-ethyl-	13.16	4000	
2. Unknown Alkane	19.68	4100	
3. Unknown Alkane	20.45	8400	
4. Unknown Alkane	21.03	3700	
5. Unknown Alkane	21.79	3100	
6. Unknown	21.90	4100	
7. Unknown Alkane	22.26	15000	
8. Unknown	22.38	3300	
9. Unknown Alkane	22.62	10000	
10. Unknown Alkane	22.68	4900	
11. Unknown	22.75	3100	
12. Unknown	22.80	6200	
13. Unknown Alkane	22.85	3400	
14. Unknown	23.03	5900	
15. Unknown	23.51	11000	
16. Unknown	23.66	8900	
17. Unknown Alkane	23.88	14000	
18. Unknown	24.01	13000	
19. Unknown Alkane	25.01	24000	
20. Unknown	34.10	9800	
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 159900

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8109.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	390
2-Chlorophenol	ND	390
2-Methylphenol	ND	390
4-Methylphenol	ND	390
2-Nitrophenol	ND	390
2,4-Dimethylphenol	ND	390
2,4-Dichlorophenol	ND	390
4-Chloro-3-methylphenol	ND	390
2,4,6-Trichlorophenol	ND	390
2,4,5-Trichlorophenol	ND	390
2,4-Dinitrophenol	ND	1600
4-Nitrophenol	ND	1600
4,6-Dinitro-2-methylphenol	ND	1600
Pentachlorophenol	ND	1600

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8109.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	39
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
1,2-Dichlorobenzene	ND	390
bis(2-chloroisopropyl)ether	ND	390
N-Nitroso-di-n-propylamine	ND	39
Hexachloroethane	ND	39
Nitrobenzene	ND	39
Isophorone	ND	390
bis(2-Chloroethoxy)methane	ND	390
1,2,4-Trichlorobenzene	ND	39
Naphthalene	ND	390
4-Chloroaniline	ND	390
Hexachlorobutadiene	ND	78
2-Methylnaphthalene	ND	390
Hexachlorocyclopentadiene	ND	390
2-Chloronaphthalene	ND	390
2-Nitroaniline	ND	780
Dimethylphthalate	ND	390
Acenaphthylene	14 J	390
2,6-Dinitrotoluene	ND	78
3-Nitroaniline	ND	780
Acenaphthene	ND	390
Dibenzofuran	ND	390
2,4-Dinitrotoluene	ND	78
Diethylphthalate	ND	390
4-Chlorophenyl-phenylether	ND	390
Fluorene	ND	390
4-Nitroaniline	ND	780
N-Nitrosodiphenylamine	ND	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	39
Phenanthrene	50 J	390
Anthracene	14 J	390

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8109.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	390
Di-n-butylphthalate	ND	390
Fluoranthene	110 J	390
Pyrene	100 J	390
Butylbenzylphthalate	ND	390
3,3'-Dichlorobenzidine	ND	780
Benzo(a)anthracene	ND	39
Chrysene	68 J	390
bis(2-Ethylhexyl)phthalate	ND	390
Di-n-octylphthalate	ND	390
Benzo(b)fluoranthene	72	39
Benzo(k)fluoranthene	30 J	39
Benzo(a)pyrene	50	39
Indeno(1,2,3-cd)pyrene	32 J	39
Dibenz(a,h)anthracene	ND	39
Benzo(g,h,i)perylene	30 J	390

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8109.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Benzoic acid	14.77	370	
2. Unknown	27.34	730	
3. Unknown Alkane	27.91	720	
4. Unknown	29.70	620	
5. Unknown Alkane	30.50	880	
6. Unknown	33.19	710	
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 4030

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8110.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8110.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	25 J	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	8.3J	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	140 J	380
Anthracene	52 J	380

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8110.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	11 J	380
Di-n-butylphthalate	ND	380
Fluoranthene	380	380
Pyrene	320 J	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	190	38
Chrysene	210 J	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	220	38
Benzo(k)fluoranthene	100	38
Benzo(a)pyrene	160	38
Indeno(1,2,3-cd)pyrene	80	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	79 J	380

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8110.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12.2

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	16.39	360	
2. Unknown	20.47	880	
3. Unknown	24.73	380	
4. Unknown	25.36	490	
5. Unknown	25.44	810	
6. Unknown	27.34	970	
7. Unknown Alkane	27.92	560	
8. Unknown	28.14	1800	
9. Unknown	29.70	590	
10. Unknown Alkane	30.50	890	
11. Unknown	33.18	680	
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 8410

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8128.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8128.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	23 J	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	75
2-Methylnaphthalene	12 J	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	750
Dimethylphthalate	ND	380
Acenaphthylene	54 J	380
2,6-Dinitrotoluene	ND	75
3-Nitroaniline	ND	750
Acenaphthene	14 J	380
Dibenzofuran	29 J	380
2,4-Dinitrotoluene	ND	75
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	30 J	380
4-Nitroaniline	ND	750
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	380	380
Anthracene	34 J	380

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8128.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	46 J	380
Di-n-butylphthalate	ND	380
Fluoranthene	440	380
Pyrene	380	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	750
Benzo(a)anthracene	140	38
Chrysene	200 J	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	250	38
Benzo(k)fluoranthene	92	38
Benzo(a)pyrene	160	38
Indeno(1,2,3-cd)pyrene	65	38
Dibenz(a,h)anthracene	21 J	38
Benzo(g,h,i)perylene	60 J	380

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8128.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.5

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Organic Acid	9.73	310	
2. Unknown	24.80	340	
3. Unknown	26.18	540	
4. Unknown	27.35	840	
5. Unknown Alkane	27.93	660	
6. Unknown	28.04	1400	
7. Unknown	29.71	610	
8. Unknown Alkane	30.52	960	
9. Unknown	33.22	560	
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 6220

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8129.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8129.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	75
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	750
Dimethylphthalate	ND	370
Acenaphthylene	31 J	370
2,6-Dinitrotoluene	ND	75
3-Nitroaniline	ND	750
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	75
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	750
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	43 J	370
Anthracene	22 J	370

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8129.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	120 J	370
Pyrene	130 J	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	750
Benzo(a)anthracene	74	37
Chrysene	77 J	370
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	100	37
Benzo(k)fluoranthene	40	37
Benzo(a)pyrene	73	37
Indeno(1,2,3-cd)pyrene	30 J	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	26 J	370

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8129.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	24.79	370	
2. Unknown	26.19	430	
3. Unknown	27.35	660	
4. Unknown Alkane	27.93	440	
5. Unknown	28.05	1000	
6. Unknown	29.71	450	
7. Unknown Alkane	30.52	770	
8. Unknown	33.21	520	
9. Unknown	34.35	510	
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 5150

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8140.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8140.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	27 J	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	ND	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	57 J	380
Anthracene	17 J	380

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8140.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	7.7J	380
Di-n-butylphthalate	ND	380
Fluoranthene	97 J	380
Pyrene	110 J	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	47	38
Chrysene	74 J	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	79	38
Benzo(k)fluoranthene	36 J	38
Benzo(a)pyrene	60	38
Indeno(1,2,3-cd)pyrene	44	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	42 J	380

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8140.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	16.36	340	
2. Unknown	26.14	730	
3. Unknown	27.30	720	
4. Unknown Alkane	27.87	500	
5. Unknown	27.99	1200	
6. Unknown	29.64	400	
7. Unknown Alkane	30.44	800	
8. Unknown	33.10	410	
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 5100

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8252.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8252.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	29 J	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	13 J	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	21 J	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	60 J	380
Dibenzofuran	49 J	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	90 J	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	1000	380
Anthracene	210 J	380

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8252.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	160 J	380
Di-n-butylphthalate	ND	380
Fluoranthene	1100	380
Pyrene	1000	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	380	38
Chrysene	420	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	430	38
Benzo(k)fluoranthene	180	38
Benzo(a)pyrene	320	38
Indeno(1,2,3-cd)pyrene	200	38
Dibenz(a,h)anthracene	56	38
Benzo(g,h,i)perylene	170 J	380

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8252.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	26.52	950	
2. Unknown Alkane	27.00	480	
3. Unknown Aldehyde	28.51	550	
4. Unknown Alkane	29.17	780	
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		2760	

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/09/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8161.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/09/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8161.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	ND	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	ND	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	9.9J	380
Anthracene	ND	380

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/09/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8161.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	380
Di-n-butylphthalate	ND	380
Fluoranthene	14 J	380
Pyrene	15 J	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	ND	38
Chrysene	9.8J	380
bis(2-Ethylhexyl)phthalate	180 J	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	14 J	38
Benzo(k)fluoranthene	ND	38
Benzo(a)pyrene	7.7J	38
Indeno(1,2,3-cd)pyrene	ND	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	8.2J	380

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/09/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8161.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	24.44	300	
2. Unknown	26.09	1100	
3. Unknown Alkane	27.83	330	
4. Unknown	29.59	400	
5. Unknown	33.03	400	
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 2530

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/01/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9911.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 7.3

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	22.5	4.3

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9817.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9.4

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	21.6	4.4

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/06/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r0018.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9.6

DIESEL RANGE ORGANICS - GC/FID (DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	13.2	4.4

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/01/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9913.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 2.0
% Moisture: 8.6

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	242	8.8

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/06/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r0019.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 5.9

DIESEL RANGE ORGANICS - GC/FID (DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	4.4	4.2

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9821.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.1

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	47.8	4.4

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9822.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.9

DIESEL RANGE ORGANICS - GC/FID (DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	25.0	4.5

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9823.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.0

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	20.0	4.4

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9824.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12.4

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	24.2	4.6

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9829.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.4

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	ND	4.5

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9830.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.7

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	ND	4.5

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/01/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9914.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 100.0
% Moisture: 10.4

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	11000	446

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9832.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15.0

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	20.9	4.7

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/06/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r0020.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12.2

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	15.9	4.6

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/06/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r0021.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.5

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	18.6	4.5

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/06/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r0022.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.0

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	17.3	4.5

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/01/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r9922.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.9

DIESEL RANGE ORGANICS - GC/FID (DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	5.7	4.5

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/06/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r0023.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.9

DIESEL RANGE ORGANICS - GC/FID
(DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	12.9	4.5

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 12/06/02
GC Column: DB-625
Instrument ID: BNAGC1.i
Lab File ID: gc1r0024.d

Matrix: SOIL
Level: LOW
Sample Weight: 25 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.9

DIESEL RANGE ORGANICS - GC/FID (DRO)

Parameter	Analytical Results Units: mg/kg (Dry Weight)	Quantitation Limit Units: mg/kg
Total DRO	4.9	4.5

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032470.d
Rear File ID: nr032470.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 7

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.2	R
alpha-BHC	ND	7.2	R
beta-BHC	ND	7.2	R
delta-BHC	ND	7.2	R
gamma-BHC (Lindane)	ND	7.2	R
Chlordane	ND	72	R
4,4'-DDD	ND	7.2	R
4,4'-DDE	ND	7.2	R
4,4'-DDT	ND	7.2	R
Dieldrin	ND	7.2	R
Endosulfan I	ND	7.2	R
Endosulfan II	ND	7.2	R
Endosulfan sulfate	ND	7.2	R
Endrin	ND	7.2	R
Endrin aldehyde	ND	7.2	R
Endrin ketone	ND	7.2	R
Heptachlor	ND	7.2	R
Heptachlor epoxide	ND	7.2	R
Methoxychlor	ND	7.2	R
Toxaphene	ND	72	R

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032471.d
Rear File ID: nr032471.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 9

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.4	R
alpha-BHC	ND	7.4	R
beta-BHC	ND	7.4	R
delta-BHC	ND	7.4	R
gamma-BHC (Lindane)	ND	7.4	R
Chlordane	ND	74	R
4,4'-DDD	ND	7.4	R
4,4'-DDE	ND	7.4	R
4,4'-DDT	ND	7.4	R
Dieldrin	ND	7.4	R
Endosulfan I	ND	7.4	R
Endosulfan II	ND	7.4	R
Endosulfan sulfate	ND	7.4	R
Endrin	ND	7.4	R
Endrin aldehyde	ND	7.4	R
Endrin ketone	ND	7.4	R
Heptachlor	ND	7.4	R
Heptachlor epoxide	ND	7.4	R
Methoxychlor	ND	7.4	R
Toxaphene	ND	74	R

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032472.d
Rear File ID: nr032472.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 10

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.4	R
alpha-BHC	ND	7.4	R
beta-BHC	ND	7.4	R
delta-BHC	ND	7.4	R
gamma-BHC (Lindane)	ND	7.4	R
Chlordane	ND	74	R
4,4'-DDD	ND	7.4	R
4,4'-DDE	14	7.4	F
4,4'-DDT	ND	7.4	R
Dieldrin	ND	7.4	R
Endosulfan I	ND	7.4	R
Endosulfan II	ND	7.4	R
Endosulfan sulfate	ND	7.4	R
Endrin	ND	7.4	R
Endrin aldehyde	ND	7.4	R
Endrin ketone	ND	7.4	R
Heptachlor	ND	7.4	R
Heptachlor epoxide	ND	7.4	R
Methoxychlor	ND	7.4	R
Toxaphene	ND	74	R

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032473.d
Rear File ID: nr032473.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 9

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.3	R
alpha-BHC	ND	7.3	R
beta-BHC	ND	7.3	R
delta-BHC	ND	7.3	R
gamma-BHC (Lindane)	ND	7.3	R
Chlordane	ND	73	R
4,4'-DDD	ND	7.3	R
4,4'-DDE	ND	7.3	R
4,4'-DDT	ND	7.3	R
Dieldrin	ND	7.3	R
Endosulfan I	ND	7.3	R
Endosulfan II	ND	7.3	R
Endosulfan sulfate	ND	7.3	R
Endrin	ND	7.3	R
Endrin aldehyde	ND	7.3	R
Endrin ketone	ND	7.3	R
Heptachlor	ND	7.3	R
Heptachlor epoxide	ND	7.3	R
Methoxychlor	ND	7.3	R
Toxaphene	ND	73	R

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032474.d
Rear File ID: nr032474.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 6

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.1	R
alpha-BHC	ND	7.1	R
beta-BHC	ND	7.1	R
delta-BHC	ND	7.1	R
gamma-BHC (Lindane)	ND	7.1	R
Chlordane	ND	71	R
4,4'-DDD	ND	7.1	R
4,4'-DDE	ND	7.1	R
4,4'-DDT	ND	7.1	R
Dieldrin	ND	7.1	R
Endosulfan I	ND	7.1	R
Endosulfan II	ND	7.1	R
Endosulfan sulfate	ND	7.1	R
Endrin	ND	7.1	R
Endrin aldehyde	ND	7.1	R
Endrin ketone	ND	7.1	R
Heptachlor	ND	7.1	R
Heptachlor epoxide	ND	7.1	R
Methoxychlor	ND	7.1	R
Toxaphene	ND	71	R

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032475.d
Rear File ID: nr032475.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 10

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.4	R
alpha-BHC	ND	7.4	R
beta-BHC	ND	7.4	R
delta-BHC	ND	7.4	R
gamma-BHC (Lindane)	ND	7.4	R
Chlordane	ND	74	R
4,4'-DDD	ND	7.4	R
4,4'-DDE	ND	7.4	R
4,4'-DDT	ND	7.4	R
Dieldrin	ND	7.4	R
Endosulfan I	ND	7.4	R
Endosulfan II	ND	7.4	R
Endosulfan sulfate	ND	7.4	R
Endrin	ND	7.4	R
Endrin aldehyde	ND	7.4	R
Endrin ketone	ND	7.4	R
Heptachlor	ND	7.4	R
Heptachlor epoxide	ND	7.4	R
Methoxychlor	ND	7.4	R
Toxaphene	ND	74	R

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032476.d
Rear File ID: nr032476.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 11

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.5	R
alpha-BHC	ND	7.5	R
beta-BHC	ND	7.5	R
delta-BHC	ND	7.5	R
gamma-BHC (Lindane)	ND	7.5	R
Chlordane	ND	75	R
4,4'-DDD	ND	7.5	R
4,4'-DDE	ND	7.5	R
4,4'-DDT	ND	7.5	R
Dieldrin	ND	7.5	R
Endosulfan I	ND	7.5	R
Endosulfan II	ND	7.5	R
Endosulfan sulfate	ND	7.5	R
Endrin	ND	7.5	R
Endrin aldehyde	ND	7.5	R
Endrin ketone	ND	7.5	R
Heptachlor	ND	7.5	R
Heptachlor epoxide	ND	7.5	R
Methoxychlor	ND	7.5	R
Toxaphene	ND	75	R

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032477.d
Rear File ID: nr032477.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 10

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.4	R
alpha-BHC	ND	7.4	R
beta-BHC	ND	7.4	R
delta-BHC	ND	7.4	R
gamma-BHC (Lindane)	ND	7.4	R
Chlordane	ND	74	R
4,4'-DDD	ND	7.4	R
4,4'-DDE	ND	7.4	R
4,4'-DDT	ND	7.4	R
Dieldrin	ND	7.4	R
Endosulfan I	ND	7.4	R
Endosulfan II	ND	7.4	R
Endosulfan sulfate	ND	7.4	R
Endrin	ND	7.4	R
Endrin aldehyde	ND	7.4	R
Endrin ketone	ND	7.4	R
Heptachlor	ND	7.4	R
Heptachlor epoxide	ND	7.4	R
Methoxychlor	ND	7.4	R
Toxaphene	ND	74	R

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032478.d
Rear File ID: nr032478.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.6	R
alpha-BHC	ND	7.6	R
beta-BHC	ND	7.6	R
delta-BHC	ND	7.6	R
gamma-BHC (Lindane)	ND	7.6	R
Chlordane	ND	76	R
4,4'-DDD	ND	7.6	R
4,4'-DDE	8.5	7.6	R
4,4'-DDT	ND	7.6	R
Dieldrin	ND	7.6	R
Endosulfan I	ND	7.6	R
Endosulfan II	ND	7.6	R
Endosulfan sulfate	ND	7.6	R
Endrin	ND	7.6	R
Endrin aldehyde	ND	7.6	R
Endrin ketone	ND	7.6	R
Heptachlor	ND	7.6	R
Heptachlor epoxide	ND	7.6	R
Methoxychlor	ND	7.6	R
Toxaphene	ND	76	R

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032479.d
Rear File ID: nr032479.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 10

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.5	R
alpha-BHC	ND	7.5	R
beta-BHC	ND	7.5	R
delta-BHC	ND	7.5	R
gamma-BHC (Lindane)	ND	7.5	R
Chlordane	ND	75	R
4,4'-DDD	ND	7.5	R
4,4'-DDE	ND	7.5	R
4,4'-DDT	ND	7.5	R
Dieldrin	ND	7.5	R
Endosulfan I	ND	7.5	R
Endosulfan II	ND	7.5	R
Endosulfan sulfate	ND	7.5	R
Endrin	ND	7.5	R
Endrin aldehyde	ND	7.5	R
Endrin ketone	ND	7.5	R
Heptachlor	ND	7.5	R
Heptachlor epoxide	ND	7.5	R
Methoxychlor	ND	7.5	R
Toxaphene	ND	75	R

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/03/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032488.d
Rear File ID: nr032488.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.6	R
alpha-BHC	ND	7.6	R
beta-BHC	ND	7.6	R
delta-BHC	ND	7.6	R
gamma-BHC (Lindane)	ND	7.6	R
Chlordane	ND	76	R
4,4'-DDD	ND	7.6	R
4,4'-DDE	ND	7.6	R
4,4'-DDT	ND	7.6	R
Dieldrin	ND	7.6	R
Endosulfan I	ND	7.6	R
Endosulfan II	ND	7.6	R
Endosulfan sulfate	ND	7.6	R
Endrin	ND	7.6	R
Endrin aldehyde	ND	7.6	R
Endrin ketone	ND	7.6	R
Heptachlor	ND	7.6	R
Heptachlor epoxide	ND	7.6	R
Methoxychlor	ND	7.6	R
Toxaphene	ND	76	R

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/03/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032489.d
Rear File ID: nr032489.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 10

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.5	R
alpha-BHC	ND	7.5	R
beta-BHC	ND	7.5	R
delta-BHC	ND	7.5	R
gamma-BHC (Lindane)	ND	7.5	R
Chlordane	ND	75	R
4,4'-DDD	9.8 P*	7.5	F
4,4'-DDE	14	7.5	F
4,4'-DDT	31	7.5	F
Dieldrin	ND	7.5	R
Endosulfan I	ND	7.5	R
Endosulfan II	ND	7.5	R
Endosulfan sulfate	ND	7.5	R
Endrin	ND	7.5	R
Endrin aldehyde	ND	7.5	R
Endrin ketone	ND	7.5	R
Heptachlor	ND	7.5	R
Heptachlor epoxide	ND	7.5	R
Methoxychlor	ND	7.5	R
Toxaphene	ND	75	R

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/03/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032490.d
Rear File ID: nr032490.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 15

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.9	R
alpha-BHC	ND	7.9	R
beta-BHC	ND	7.9	R
delta-BHC	ND	7.9	R
gamma-BHC (Lindane)	ND	7.9	R
Chlordane	ND	79	R
4,4'-DDD	9.2 P*	7.9	F
4,4'-DDE	20	7.9	R
4,4'-DDT	49	7.9	R
Dieldrin	ND	7.9	R
Endosulfan I	ND	7.9	R
Endosulfan II	ND	7.9	R
Endosulfan sulfate	ND	7.9	R
Endrin	ND	7.9	R
Endrin aldehyde	ND	7.9	R
Endrin ketone	ND	7.9	R
Heptachlor	ND	7.9	R
Heptachlor epoxide	ND	7.9	R
Methoxychlor	ND	7.9	R
Toxaphene	ND	79	R

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/03/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032491.d
Rear File ID: nr032491.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.6	R
alpha-BHC	ND	7.6	R
beta-BHC	ND	7.6	R
delta-BHC	ND	7.6	R
gamma-BHC (Lindane)	ND	7.6	R
Chlordane	ND	76	R
4,4'-DDD	ND	7.6	R
4,4'-DDE	ND	7.6	R
4,4'-DDT	ND	7.6	R
Dieldrin	ND	7.6	R
Endosulfan I	ND	7.6	R
Endosulfan II	ND	7.6	R
Endosulfan sulfate	ND	7.6	R
Endrin	ND	7.6	R
Endrin aldehyde	ND	7.6	R
Endrin ketone	ND	7.6	R
Heptachlor	ND	7.6	R
Heptachlor epoxide	ND	7.6	R
Methoxychlor	ND	7.6	R
Toxaphene	ND	76	R

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/03/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032492.d
Rear File ID: nr032492.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)		Quantitation Limit Units: ug/kg	Column
Aldrin	ND		7.6	R
alpha-BHC	ND		7.6	R
beta-BHC	ND		7.6	R
delta-BHC	ND		7.6	R
gamma-BHC (Lindane)	ND		7.6	R
Chlordane	400		76	R
4,4'-DDD	ND		7.6	R
4,4'-DDE	10		7.6	R
4,4'-DDT	16	P*	7.6	F
Dieldrin	ND		7.6	R
Endosulfan I	ND		7.6	R
Endosulfan II	ND		7.6	R
Endosulfan sulfate	ND		7.6	R
Endrin	ND		7.6	R
Endrin aldehyde	ND		7.6	R
Endrin ketone	ND		7.6	R
Heptachlor	ND		7.6	R
Heptachlor epoxide	ND		7.6	R
Methoxychlor	ND		7.6	R
Toxaphene	ND		76	R

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/03/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032493.d
Rear File ID: nr032493.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 11

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.5	R
alpha-BHC	ND	7.5	R
beta-BHC	ND	7.5	R
delta-BHC	ND	7.5	R
gamma-BHC (Lindane)	ND	7.5	R
Chlordane	ND	75	R
4,4'-DDD	ND	7.5	R
4,4'-DDE	ND	7.5	R
4,4'-DDT	ND	7.5	R
Dieldrin	ND	7.5	R
Endosulfan I	ND	7.5	R
Endosulfan II	ND	7.5	R
Endosulfan sulfate	ND	7.5	R
Endrin	ND	7.5	R
Endrin aldehyde	ND	7.5	R
Endrin ketone	ND	7.5	R
Heptachlor	ND	7.5	R
Heptachlor epoxide	ND	7.5	R
Methoxychlor	ND	7.5	R
Toxaphene	ND	75	R

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 12/04/02
Date Analyzed: 12/05/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032558.d
Rear File ID: nr032558.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.6	R
alpha-BHC	ND	7.6	R
beta-BHC	ND	7.6	R
delta-BHC	ND	7.6	R
gamma-BHC (Lindane)	ND	7.6	R
Chlordane	290	76	F
4,4'-DDD	ND	7.6	R
4,4'-DDE	ND	7.6	R
4,4'-DDT	12 P*	7.6	F
Dieldrin	ND	7.6	R
Endosulfan I	ND	7.6	R
Endosulfan II	ND	7.6	R
Endosulfan sulfate	ND	7.6	R
Endrin	ND	7.6	R
Endrin aldehyde	ND	7.6	R
Endrin ketone	ND	7.6	R
Heptachlor	ND	7.6	R
Heptachlor epoxide	ND	7.6	R
Methoxychlor	ND	7.6	R
Toxaphene	ND	76	R

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/03/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032495.d
Rear File ID: nr032495.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.6	R
alpha-BHC	ND	7.6	R
beta-BHC	ND	7.6	R
delta-BHC	ND	7.6	R
gamma-BHC (Lindane)	ND	7.6	R
Chlordane	ND	76	R
4,4'-DDD	ND	7.6	R
4,4'-DDE	ND	7.6	R
4,4'-DDT	ND	7.6	R
Dieldrin	ND	7.6	R
Endosulfan I	ND	7.6	R
Endosulfan II	ND	7.6	R
Endosulfan sulfate	ND	7.6	R
Endrin	ND	7.6	R
Endrin aldehyde	ND	7.6	R
Endrin ketone	ND	7.6	R
Heptachlor	ND	7.6	R
Heptachlor epoxide	ND	7.6	R
Methoxychlor	ND	7.6	R
Toxaphene	ND	76	R

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample ID: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/02/02
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf032467.d
Rear File ID: nr032467.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.6	R
alpha-BHC	ND	7.6	R
beta-BHC	ND	7.6	R
delta-BHC	ND	7.6	R
gamma-BHC (Lindane)	ND	7.6	R
Chlordane	ND	76	R
4,4'-DDD	ND	7.6	R
4,4'-DDE	ND	7.6	R
4,4'-DDT	ND	7.6	R
Dieldrin	ND	7.6	R
Endosulfan I	ND	7.6	R
Endosulfan II	ND	7.6	R
Endosulfan sulfate	ND	7.6	R
Endrin	ND	7.6	R
Endrin aldehyde	ND	7.6	R
Endrin ketone	ND	7.6	R
Heptachlor	ND	7.6	R
Heptachlor epoxide	ND	7.6	R
Methoxychlor	ND	7.6	R
Toxaphene	ND	76	R

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/26/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009542.d
Rear File ID: vr009542.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 7

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	72	R
Aroclor-1221	ND	72	R
Aroclor-1232	ND	72	R
Aroclor-1242	ND	72	R
Aroclor-1248	ND	72	R
Aroclor-1254	ND	72	R
Aroclor-1260	ND	72	R
Aroclor-1262	ND	72	R
Aroclor-1268	ND	72	R

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009543.d
Rear File ID: vr009543.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 9

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	74	R
Aroclor-1221	ND	74	R
Aroclor-1232	ND	74	R
Aroclor-1242	ND	74	R
Aroclor-1248	ND	74	R
Aroclor-1254	ND	74	R
Aroclor-1260	ND	74	R
Aroclor-1262	ND	74	R
Aroclor-1268	ND	74	R

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009544.d
Rear File ID: vr009544.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 10

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	74	R
Aroclor-1221	ND	74	R
Aroclor-1232	ND	74	R
Aroclor-1242	ND	74	R
Aroclor-1248	ND	74	R
Aroclor-1254	ND	74	R
Aroclor-1260	220	74	F
Aroclor-1262	ND	74	R
Aroclor-1268	ND	74	R

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009545.d
Rear File ID: vr009545.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 9

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	73	R
Aroclor-1221	ND	73	R
Aroclor-1232	ND	73	R
Aroclor-1242	ND	73	R
Aroclor-1248	ND	73	R
Aroclor-1254	ND	73	R
Aroclor-1260	210	73	F
Aroclor-1262	ND	73	R
Aroclor-1268	ND	73	R

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009546.d
Rear File ID: vr009546.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 6

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	71	R
Aroclor-1221	ND	71	R
Aroclor-1232	ND	71	R
Aroclor-1242	ND	71	R
Aroclor-1248	ND	71	R
Aroclor-1254	ND	71	R
Aroclor-1260	ND	71	R
Aroclor-1262	ND	71	R
Aroclor-1268	ND	71	R

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009547.d
Rear File ID: vr009547.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 10

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	74	R
Aroclor-1221	ND	74	R
Aroclor-1232	ND	74	R
Aroclor-1242	ND	74	R
Aroclor-1248	ND	74	R
Aroclor-1254	ND	74	R
Aroclor-1260	ND	74	R
Aroclor-1262	ND	74	R
Aroclor-1268	ND	74	R

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009548.d
Rear File ID: vr009548.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 11

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	75	R
Aroclor-1221	ND	75	R
Aroclor-1232	ND	75	R
Aroclor-1242	ND	75	R
Aroclor-1248	ND	75	R
Aroclor-1254	ND	75	R
Aroclor-1260	92	75	F
Aroclor-1262	ND	75	R
Aroclor-1268	ND	75	R

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009549.d
Rear File ID: vr009549.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 10

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	74	R
Aroclor-1221	ND	74	R
Aroclor-1232	ND	74	R
Aroclor-1242	ND	74	R
Aroclor-1248	ND	74	R
Aroclor-1254	ND	74	R
Aroclor-1260	ND	74	R
Aroclor-1262	ND	74	R
Aroclor-1268	ND	74	R

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009550.d
Rear File ID: vr009550.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	76	R
Aroclor-1221	ND	76	R
Aroclor-1232	ND	76	R
Aroclor-1242	ND	76	R
Aroclor-1248	ND	76	R
Aroclor-1254	ND	76	R
Aroclor-1260	ND	76	R
Aroclor-1262	ND	76	R
Aroclor-1268	ND	76	R

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009551.d
Rear File ID: vr009551.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 10

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	75	R
Aroclor-1221	ND	75	R
Aroclor-1232	ND	75	R
Aroclor-1242	ND	75	R
Aroclor-1248	ND	75	R
Aroclor-1254	ND	75	R
Aroclor-1260	ND	75	R
Aroclor-1262	ND	75	R
Aroclor-1268	ND	75	R

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009552.d
Rear File ID: vr009552.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	76	R
Aroclor-1221	ND	76	R
Aroclor-1232	ND	76	R
Aroclor-1242	ND	76	R
Aroclor-1248	ND	76	R
Aroclor-1254	ND	76	R
Aroclor-1260	ND	76	R
Aroclor-1262	ND	76	R
Aroclor-1268	ND	76	R

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009553.d
Rear File ID: vr009553.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 10

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	75	R
Aroclor-1221	ND	75	R
Aroclor-1232	ND	75	R
Aroclor-1242	ND	75	R
Aroclor-1248	ND	75	R
Aroclor-1254	ND	75	R
Aroclor-1260	ND	75	R
Aroclor-1262	ND	75	R
Aroclor-1268	ND	75	R

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009554.d
Rear File ID: vr009554.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 15

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	79	R
Aroclor-1221	ND	79	R
Aroclor-1232	ND	79	R
Aroclor-1242	ND	79	R
Aroclor-1248	ND	79	R
Aroclor-1254	ND	79	R
Aroclor-1260	ND	79	R
Aroclor-1262	ND	79	R
Aroclor-1268	ND	79	R

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009555.d
Rear File ID: vr009555.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	76	R
Aroclor-1221	ND	76	R
Aroclor-1232	ND	76	R
Aroclor-1242	ND	76	R
Aroclor-1248	ND	76	R
Aroclor-1254	ND	76	R
Aroclor-1260	ND	76	R
Aroclor-1262	ND	76	R
Aroclor-1268	ND	76	R

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009556.d
Rear File ID: vr009556.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	76	R
Aroclor-1221	ND	76	R
Aroclor-1232	ND	76	R
Aroclor-1242	ND	76	R
Aroclor-1248	ND	76	R
Aroclor-1254	ND	76	R
Aroclor-1260	ND	76	R
Aroclor-1262	ND	76	R
Aroclor-1268	ND	76	R

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009557.d
Rear File ID: vr009557.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 11

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	75	R
Aroclor-1221	ND	75	R
Aroclor-1232	ND	75	R
Aroclor-1242	ND	75	R
Aroclor-1248	ND	75	R
Aroclor-1254	ND	75	R
Aroclor-1260	ND	75	R
Aroclor-1262	ND	75	R
Aroclor-1268	ND	75	R

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009558.d
Rear File ID: vr009558.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	76	R
Aroclor-1221	ND	76	R
Aroclor-1232	ND	76	R
Aroclor-1242	ND	76	R
Aroclor-1248	ND	76	R
Aroclor-1254	ND	76	R
Aroclor-1260	ND	76	R
Aroclor-1262	ND	76	R
Aroclor-1268	ND	76	R

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample ID: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/27/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009559.d
Rear File ID: vr009559.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	76	R
Aroclor-1221	ND	76	R
Aroclor-1232	ND	76	R
Aroclor-1242	ND	76	R
Aroclor-1248	ND	76	R
Aroclor-1254	ND	76	R
Aroclor-1260	ND	76	R
Aroclor-1262	ND	76	R
Aroclor-1268	ND	76	R

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample ID: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 11/26/02
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC9.i
Front File ID: vf009535.d
Rear File ID: vr009535.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	76	R
Aroclor-1221	ND	76	R
Aroclor-1232	ND	76	R
Aroclor-1242	ND	76	R
Aroclor-1248	ND	76	R
Aroclor-1254	ND	76	R
Aroclor-1260	ND	76	R
Aroclor-1262	ND	76	R
Aroclor-1268	ND	76	R

Client ID: **HA-01-03-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392306
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 7.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	7090	12.6		P
Antimony	ND	0.97	N	P
Arsenic	2.5	0.78	*	P
Barium	119	0.32		P
Beryllium	0.89	0.043		P
Cadmium	9.0	0.086	N	P
Calcium	21000	8.3		P
Chromium	14.3	0.24		P
Cobalt	0.99	0.22	B	P
Copper	13.4	0.58	*	P
Iron	7210	8.0	*	P
Lead	70.6	0.45	N	P
Magnesium	6640	6.9		P
Manganese	632	0.22		P
Mercury	ND	0.018	N*	CV
Nickel	3.2	0.30	B*	P
Potassium	515	54.8	BN	P
Selenium	1.5	0.97		P
Silver	1.4	0.24	BN	P
Sodium	271	75.9	B	P
Thallium	ND	0.88		P
Vanadium	14.3	0.28		P
Zinc	216	1.1	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-04-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392307
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 9.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	3920	12.9		P
Antimony	ND	0.99	N	P
Arsenic	2.9	0.79	*	P
Barium	13.8	0.33	B	P
Beryllium	ND	0.044		P
Cadmium	0.62	0.088	BN	P
Calcium	843	8.5	B	P
Chromium	15.3	0.24		P
Cobalt	0.60	0.22	B	P
Copper	7.3	0.60	*	P
Iron	7890	8.2	*	P
Lead	16.8	0.46	N	P
Magnesium	493	7.0	B	P
Manganese	46.9	0.22		P
Mercury	0.06	0.016	N*	CV
Nickel	2.9	0.31	B*	P
Potassium	172	56.1	BN	P
Selenium	ND	0.99		P
Silver	ND	0.24	N	P
Sodium	115	77.7	B	P
Thallium	ND	0.91		P
Vanadium	13.6	0.29		P
Zinc	93.6	1.1	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-02-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392308
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 9.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	3740	11.8		P
Antimony	ND	0.91	N	P
Arsenic	2.8	0.72	*	P
Barium	58.1	0.30		P
Beryllium	0.31	0.040	B	P
Cadmium	3.5	0.080	N	P
Calcium	7440	7.7		P
Chromium	18.7	0.22		P
Cobalt	0.61	0.20	B	P
Copper	13.6	0.54	*	P
Iron	7040	7.5	*	P
Lead	39.4	0.42	N	P
Magnesium	2180	6.4		P
Manganese	330	0.20		P
Mercury	0.03	0.018	BN*	CV
Nickel	2.4	0.28	B*	P
Potassium	397	51.1	BN	P
Selenium	ND	0.91		P
Silver	0.34	0.22	BN	P
Sodium	134	70.8	B	P
Thallium	ND	0.82		P
Vanadium	20.1	0.26		P
Zinc	175	1.0	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-12-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392309
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 8.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	7010	11.7		P
Antimony	ND	0.90	N	P
Arsenic	2.7	0.72	*	P
Barium	69.7	0.30		P
Beryllium	0.54	0.040		P
Cadmium	2.2	0.080	N	P
Calcium	11200	7.6		P
Chromium	15.8	0.22		P
Cobalt	0.80	0.20	B	P
Copper	7.0	0.54	*	P
Iron	8700	7.4	*	P
Lead	23.1	0.42	N	P
Magnesium	3710	6.3		P
Manganese	381	0.20		P
Mercury	0.09	0.018	N*	CV
Nickel	3.0	0.28	B*	P
Potassium	332	50.5	BN	P
Selenium	ND	0.90		P
Silver	ND	0.22	N	P
Sodium	157	70.0	B	P
Thallium	ND	0.82		P
Vanadium	17.3	0.26		P
Zinc	63.7	1.0	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-11-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392310
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 5.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	4950	11.3		P
Antimony	ND	0.87	N	P
Arsenic	3.0	0.70	*	P
Barium	22.4	0.29	B	P
Beryllium	0.13	0.039	B	P
Cadmium	ND	0.077	N	P
Calcium	2680	7.4		P
Chromium	24.1	0.21		P
Cobalt	0.85	0.19	B	P
Copper	3.9	0.52	B*	P
Iron	8770	7.2	*	P
Lead	5.2	0.41	N	P
Magnesium	965	6.2	B	P
Manganese	107	0.19		P
Mercury	ND	0.018	N*	CV
Nickel	6.2	0.27	B*	P
Potassium	281	49.1	BN	P
Selenium	ND	0.87		P
Silver	ND	0.21	N	P
Sodium	81.9	68.0	B	P
Thallium	ND	0.79		P
Vanadium	17.2	0.25		P
Zinc	13.4	1.0	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-10-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392311
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 10.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	5730	11.9		P
Antimony	ND	0.91	N	P
Arsenic	2.9	0.73	*	P
Barium	55.2	0.30		P
Beryllium	0.41	0.040	B	P
Cadmium	3.7	0.081	N	P
Calcium	9760	7.8		P
Chromium	19.0	0.22		P
Cobalt	1.8	0.20	B	P
Copper	9.0	0.55	*	P
Iron	10000	7.5	*	P
Lead	23.1	0.42	N	P
Magnesium	3820	6.5		P
Manganese	420	0.20		P
Mercury	ND	0.016	N*	CV
Nickel	5.7	0.28	B*	P
Potassium	456	51.4	BN	P
Selenium	ND	0.91		P
Silver	0.33	0.22	BN	P
Sodium	238	71.1	B	P
Thallium	ND	0.83		P
Vanadium	17.5	0.26		P
Zinc	66.5	1.1	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-09-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392312
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 10.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	7120	13.2		P
Antimony	ND	1.0	N	P
Arsenic	2.4	0.81	*	P
Barium	75.2	0.34		P
Beryllium	0.56	0.045		P
Cadmium	5.3	0.090	N	P
Calcium	17100	8.6		P
Chromium	18.2	0.25		P
Cobalt	1.1	0.22	B	P
Copper	15.2	0.61	*	P
Iron	9240	8.3	*	P
Lead	33.8	0.47	N	P
Magnesium	4190	7.2		P
Manganese	479	0.22		P
Mercury	0.02	0.016	BN*	CV
Nickel	5.4	0.31	B*	P
Potassium	406	57.0	BN	P
Selenium	1.2	1.0		P
Silver	ND	0.25	N	P
Sodium	182	79.0	B	P
Thallium	ND	0.92		P
Vanadium	14.4	0.29		P
Zinc	170	1.2	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-08-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392313
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 10.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	5180	13.0		P
Antimony	1.4	1.0	BN	P
Arsenic	2.7	0.80	*	P
Barium	54.7	0.33		P
Beryllium	0.33	0.044	B	P
Cadmium	52.1	0.089	N	P
Calcium	8970	8.5		P
Chromium	15.6	0.24		P
Cobalt	0.94	0.22	B	P
Copper	13.9	0.60	*	P
Iron	8060	8.2	*	P
Lead	130	0.47	N	P
Magnesium	2980	7.1		P
Manganese	314	0.22		P
Mercury	0.02	0.019	BN*	CV
Nickel	3.9	0.31	B*	P
Potassium	337	56.5	BN	P
Selenium	ND	1.0		P
Silver	ND	0.24	N	P
Sodium	98.0	78.2	B	P
Thallium	ND	0.91		P
Vanadium	12.9	0.29		P
Zinc	263	1.2	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-07-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392314
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 12.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	13100	13.4		P
Antimony	ND	1.0	N	P
Arsenic	3.4	0.82	*	P
Barium	254	0.34		P
Beryllium	1.6	0.046		P
Cadmium	15.8	0.091	N	P
Calcium	46800	8.8		P
Chromium	21.0	0.25		P
Cobalt	1.7	0.23	B	P
Copper	14.6	0.62	*	P
Iron	11600	8.5	*	P
Lead	70.8	0.48	N	P
Magnesium	11500	7.3		P
Manganese	1440	0.23		P
Mercury	0.03	0.019	BN*	CV
Nickel	4.5	0.32	B*	P
Potassium	976	58.0	BN	P
Selenium	1.5	1.0		P
Silver	ND	0.25	N	P
Sodium	561	80.3	B	P
Thallium	ND	0.94		P
Vanadium	15.9	0.30		P
Zinc	522	1.2	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-06-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392315
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 10.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	7020	11.9		P
Antimony	ND	0.91	N	P
Arsenic	2.7	0.73	*	P
Barium	91.5	0.30		P
Beryllium	0.63	0.041		P
Cadmium	1.0	0.081	N	P
Calcium	13500	7.8		P
Chromium	14.0	0.22		P
Cobalt	0.58	0.20	B	P
Copper	5.9	0.55	*	P
Iron	7980	7.5	*	P
Lead	16.5	0.43	N	P
Magnesium	4440	6.5		P
Manganese	429	0.20		P
Mercury	ND	0.019	N*	CV
Nickel	2.6	0.28	B*	P
Potassium	463	51.6	BN	P
Selenium	0.94	0.91	B	P
Silver	ND	0.22	N	P
Sodium	191	71.4	B	P
Thallium	ND	0.83		P
Vanadium	14.8	0.26		P
Zinc	64.3	1.1	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-05-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392316
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 11.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	8020	12.1		P
Antimony	ND	0.93	N	P
Arsenic	3.6	0.74	*	P
Barium	131	0.31		P
Beryllium	0.92	0.041		P
Cadmium	1.6	0.082	N	P
Calcium	21400	7.9		P
Chromium	13.3	0.23		P
Cobalt	0.63	0.21	B	P
Copper	6.2	0.56	*	P
Iron	6010	7.6	*	P
Lead	61.8	0.43	N	P
Magnesium	6880	6.6		P
Manganese	664	0.21		P
Mercury	0.03	0.019	BN*	CV
Nickel	2.4	0.29	B*	P
Potassium	455	52.3	BN	P
Selenium	ND	0.93		P
Silver	ND	0.23	N	P
Sodium	292	72.4	B	P
Thallium	ND	0.84		P
Vanadium	12.9	0.27		P
Zinc	189	1.1	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-02-08-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392317
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 10.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	5610	11.9		P
Antimony	ND	0.91	N	P
Arsenic	8.5	0.73	*	P
Barium	24.0	0.30	B	P
Beryllium	0.29	0.041	B	P
Cadmium	0.11	0.081	BN	P
Calcium	1100	7.8		P
Chromium	21.0	0.22		P
Cobalt	2.1	0.20	B	P
Copper	7.5	0.55	*	P
Iron	13400	7.5	*	P
Lead	22.3	0.43	N	P
Magnesium	696	6.5	B	P
Manganese	114	0.20		P
Mercury	0.04	0.019	N*	CV
Nickel	3.7	0.28	B*	P
Potassium	510	51.6	BN	P
Selenium	ND	0.91		P
Silver	ND	0.22	N	P
Sodium	ND	71.4		P
Thallium	ND	0.83		P
Vanadium	25.1	0.26		P
Zinc	26.8	1.1	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-02-04-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392318
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 15.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	5610	12.5		P
Antimony	ND	0.96	N	P
Arsenic	13.1	0.77	*	P
Barium	18.7	0.32	B	P
Beryllium	0.38	0.043	B	P
Cadmium	ND	0.086	N	P
Calcium	569	8.2	B	P
Chromium	19.9	0.24		P
Cobalt	2.6	0.21	B	P
Copper	8.6	0.58	*	P
Iron	16400	7.9	*	P
Lead	23.8	0.45	N	P
Magnesium	569	6.8	B	P
Manganese	145	0.21		P
Mercury	0.06	0.017	N*	CV
Nickel	3.6	0.30	B*	P
Potassium	475	54.4	BN	P
Selenium	1.9	0.96		P
Silver	ND	0.24	N	P
Sodium	681	75.3	B	P
Thallium	ND	0.88		P
Vanadium	25.9	0.28		P
Zinc	37.2	1.1	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-02-03-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392319
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 12.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	5460	13.3		P
Antimony	ND	1.0	N	P
Arsenic	9.5	0.82	*	P
Barium	23.7	0.34	B	P
Beryllium	0.26	0.046	B	P
Cadmium	ND	0.091	N	P
Calcium	753	8.7	B	P
Chromium	16.6	0.25		P
Cobalt	1.9	0.23	B	P
Copper	8.1	0.62	*	P
Iron	13200	8.5	*	P
Lead	26.5	0.48	N	P
Magnesium	651	7.3	B	P
Manganese	112	0.23		P
Mercury	0.05	0.019	N*	CV
Nickel	3.8	0.32	B*	P
Potassium	466	57.9	BN	P
Selenium	ND	1.0		P
Silver	ND	0.25	N	P
Sodium	ND	80.1		P
Thallium	ND	0.93		P
Vanadium	21.0	0.30		P
Zinc	25.7	1.2	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-02-02-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392320
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 11.5

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	5470	13.2		P
Antimony	ND	1.0	N	P
Arsenic	10.1	0.81	*	P
Barium	24.2	0.34	B	P
Beryllium	0.31	0.045	B	P
Cadmium	ND	0.090	N	P
Calcium	897	8.7	B	P
Chromium	18.8	0.25		P
Cobalt	2.5	0.23	B	P
Copper	7.7	0.61	*	P
Iron	14400	8.4	*	P
Lead	27.6	0.47	N	P
Magnesium	641	7.2	B	P
Manganese	125	0.23		P
Mercury	0.05	0.016	N*	CV
Nickel	3.8	0.32	B*	P
Potassium	477	57.4	BN	P
Selenium	ND	1.0		P
Silver	ND	0.25	N	P
Sodium	ND	79.5		P
Thallium	ND	0.93		P
Vanadium	25.0	0.29		P
Zinc	27.8	1.2	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-02-06-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392321
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 11.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	5480	12.0		P
Antimony	ND	0.92	N	P
Arsenic	8.9	0.74	*	P
Barium	24.3	0.31	B	P
Beryllium	0.29	0.041	B	P
Cadmium	ND	0.082	N	P
Calcium	1020	7.8		P
Chromium	19.4	0.22		P
Cobalt	2.1	0.20	B	P
Copper	7.5	0.55	*	P
Iron	13600	7.6	*	P
Lead	24.0	0.43	N	P
Magnesium	670	6.5	B	P
Manganese	121	0.20		P
Mercury	0.04	0.019	N*	CV
Nickel	3.8	0.29	B*	P
Potassium	520	51.9	BN	P
Selenium	ND	0.92		P
Silver	ND	0.22	N	P
Sodium	ND	71.9		P
Thallium	ND	0.84		P
Vanadium	24.2	0.27		P
Zinc	25.2	1.1	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-02-05-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392322
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 11.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	4960	12.1		P
Antimony	ND	0.93	N	P
Arsenic	7.8	0.74	*	P
Barium	21.0	0.31	B	P
Beryllium	0.24	0.041	B	P
Cadmium	ND	0.083	N	P
Calcium	690	7.9	B	P
Chromium	17.0	0.23		P
Cobalt	1.8	0.21	B	P
Copper	6.7	0.56	*	P
Iron	12000	7.7	*	P
Lead	20.8	0.43	N	P
Magnesium	576	6.6	B	P
Manganese	99.7	0.21		P
Mercury	0.06	0.019	N*	CV
Nickel	3.3	0.29	B*	P
Potassium	447	52.4	BN	P
Selenium	1.0	0.93	B	P
Silver	ND	0.23	N	P
Sodium	93.3	72.6	B	P
Thallium	ND	0.85		P
Vanadium	21.0	0.27		P
Zinc	24.1	1.1	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-02-07-0-6**
Site: **Earle NWS Closure**

Lab Sample No: 392323
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 11.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	5520	13.3		P
Antimony	ND	1.0	N	P
Arsenic	9.4	0.82	*	P
Barium	24.4	0.34	B	P
Beryllium	0.28	0.045	B	P
Cadmium	ND	0.091	N	P
Calcium	1110	8.7		P
Chromium	18.6	0.25		P
Cobalt	2.0	0.23	B	P
Copper	8.3	0.61	*	P
Iron	13700	8.4	*	P
Lead	25.5	0.48	N	P
Magnesium	637	7.2	B	P
Manganese	111	0.23		P
Mercury	0.05	0.019	N*	CV
Nickel	3.9	0.32	B*	P
Potassium	501	57.7	BN	P
Selenium	1.1	1.0	B	P
Silver	ND	0.25	N	P
Sodium	132	79.9	B	P
Thallium	ND	0.93		P
Vanadium	24.4	0.30		P
Zinc	26.4	1.2	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **HA-01-DUP**
Site: **Earle NWS Closure**

Lab Sample No: 392324
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02

Matrix: SOLID
Level: LOW
% Moisture: 11.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	6160	13.3		P
Antimony	1.9	1.0	BN	P
Arsenic	2.7	0.82	*	P
Barium	83.4	0.34		P
Beryllium	0.54	0.045		P
Cadmium	77.6	0.091	N	P
Calcium	14900	8.7		P
Chromium	18.8	0.25		P
Cobalt	1.4	0.23	B	P
Copper	16.6	0.61	*	P
Iron	9580	8.4	*	P
Lead	195	0.48	N	P
Magnesium	5830	7.2		P
Manganese	517	0.23		P
Mercury	0.03	0.019	N*	CV
Nickel	4.2	0.32	B*	P
Potassium	432	57.7	BN	P
Selenium	ND	1.0		P
Silver	ND	0.25	N	P
Sodium	323	79.9	B	P
Thallium	ND	0.93		P
Vanadium	13.3	0.30		P
Zinc	406	1.2	N	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Site: Earle NWS Closure

Lab Job No: D092

Date Received: 11/20/2002
Matrix: SOIL

Date Extracted: 11/21/2002
Date Analyzed: 11/22/2002
QA Batch: 1104

Total Cyanide

STL Edison Sample #	Client ID	Sample Date	Percent Moisture	Dilution Factor	Analytical Result Units: mg/kg (Dry Weight)
392306	HA-01-03-0-6	11/20/2002	7.3	1.0	ND
392307	HA-01-04-0-6	11/20/2002	9.4	1.0	ND
392308	HA-01-02-0-6	11/20/2002	9.6	1.0	ND
392309	HA-01-12-0-6	11/20/2002	8.6	1.0	ND
392310	HA-01-11-0-6	11/20/2002	5.9	1.0	ND
392311	HA-01-10-0-6	11/20/2002	10.1	1.0	ND
392312	HA-01-09-0-6	11/20/2002	10.9	1.0	ND
392313	HA-01-08-0-6	11/20/2002	10.0	1.0	ND
392314	HA-01-07-0-6	11/20/2002	12.4	1.0	ND
392315	HA-01-06-0-6	11/20/2002	10.4	1.0	ND
392316	HA-01-05-0-6	11/20/2002	11.7	1.0	ND
392317	HA-02-08-0-6	11/20/2002	10.4	1.0	ND
392318	HA-02-04-0-6	11/20/2002	15.0	1.0	ND
392319	HA-02-03-0-6	11/20/2002	12.2	1.0	ND
392320	HA-02-02-0-6	11/20/2002	11.5	1.0	ND
392321	HA-02-06-0-6	11/20/2002	11.0	1.0	ND
392322	HA-02-05-0-6	11/20/2002	11.9	1.0	ND
392323	HA-02-07-0-6	11/20/2002	11.9	1.0	ND
392324	HA-01-DUP	11/20/2002	11.9	1.0	ND

Quantitation Limit for Total Cyanide is 0.5 mg/kg.

STL EDISON

Client Sample ID: D092-392306

TOTAL General Chemistry

Lot-Sample #...:	A2K230190-001	**Work Order #...:**	FDR43	**Matrix.....:**	SO
Date Sampled...:	11/20/02 10:40	**Date Received..:**	11/23/02		
% Moisture.....:		**Leach Date.....:**	11/26/02	**Leach Batch #..:**	P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392307

TOTAL General Chemistry

Lot-Sample #...: A2K230190-002 **Work Order #...:** FDR46 **Matrix.....:** SO
Date Sampled...: 11/20/02 11:05 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392308

TOTAL General Chemistry

Lot-Sample #...: A2K230190-003 **Work Order #...:** FDR47 **Matrix.....:** SO
Date Sampled...: 11/20/02 11:30 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392309

TOTAL General Chemistry

Lot-Sample #...: A2K230190-004 **Work Order #...:** FDR48 **Matrix.....:** SO
Date Sampled...: 11/20/02 11:50 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
	Dilution Factor: 1					
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
	Dilution Factor: 1					

STL EDISON

Client Sample ID: D092-392310

TOTAL General Chemistry

Lot-Sample #...: A2K230190-005 **Work Order #...:** FDR49 **Matrix.....:** SO
Date Sampled...: 11/20/02 12:10 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392311

TOTAL General Chemistry

Lot-Sample #...: A2K230190-006 **Work Order #...:** FDR5A **Matrix.....:** SO
Date Sampled...: 11/20/02 12:35 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392312

TOTAL General Chemistry

Lot-Sample #...: A2K230190-007 **Work Order #...:** FDR5C **Matrix.....:** SO
Date Sampled...: 11/20/02 12:55 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392313

TOTAL General Chemistry

Lot-Sample #...: A2K230190-008 **Work Order #...:** FDR5D **Matrix.....:** SO
Date Sampled...: 11/20/02 13:25 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392314

TOTAL General Chemistry

Lot-Sample #...: A2K230190-009 **Work Order #...:** FDR5F **Matrix.....:** SO
Date Sampled...: 11/20/02 13:55 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392315

TOTAL General Chemistry

Lot-Sample #...: A2K230190-010 **Work Order #...:** FDR5G **Matrix.....:** SO
Date Sampled...: 11/20/02 14:20 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392316

TOTAL General Chemistry

Lot-Sample #...: A2K230190-011 **Work Order #...:** FDR5N **Matrix.....:** SO
Date Sampled...: 11/20/02 14:40 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392317

TOTAL General Chemistry

Lot-Sample #...: A2K230190-012 **Work Order #...:** FDR5P **Matrix.....:** SO
Date Sampled...: 11/20/02 15:25 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392319

TOTAL General Chemistry

Lot-Sample #...: A2K230190-014 **Work Order #...:** FDR5T **Matrix.....:** SO
Date Sampled...: 11/20/02 16:05 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392320

TOTAL General Chemistry

Lot-Sample #...: A2K230190-015 **Work Order #...:** FDR5V **Matrix.....:** SO
Date Sampled...: 11/20/02 16:20 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392321

TOTAL General Chemistry

Lot-Sample #...: A2K230190-016 **Work Order #...:** FDR5W **Matrix.....:** SO
Date Sampled...: 11/20/02 16:35 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392322

TOTAL General Chemistry

Lot-Sample #...: A2K230190-017 **Work Order #...:** FDR50 **Matrix.....:** SO
Date Sampled...: 11/20/02 16:50 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/26/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392323

TOTAL General Chemistry

Lot-Sample #...: A2K230190-018 **Work Order #...:** FDR51 **Matrix.....:** SO
Date Sampled...: 11/20/02 17:10 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/27/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/27/02	2331203
		Dilution Factor: 1				

STL EDISON

Client Sample ID: D092-392324

TOTAL General Chemistry

Lot-Sample #...: A2K230190-019 **Work Order #...:** FDR52 **Matrix.....:** SO
Date Sampled...: 11/20/02 17:30 **Date Received..:** 11/23/02
% Moisture.....: **Leach Date.....:** 11/26/02 **Leach Batch #..:** P233105

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	5.0	mg/kg	SW846 9056A	11/27/02	2331202
		Dilution Factor: 1				
Nitrite as N	ND	5.0	mg/kg	SW846 9056A	11/27/02	2331203
		Dilution Factor: 1				

General Information

Chain of Custody

D092

STL EDISON

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): JOE CARAGINE	Samplers Name (Printed): JOE CARAGINE	Site/Project Identification: EARLE NWS CLOSURE
Company: MALCOLM PIRNIE INC	P.O. #: 0474-057	State (Location of site): NJ: ☒ NY: ☐ Other:
		Regulatory Program:
Address: 17-17 RTE 208 N	Analysis Turnaround Time: Standard ☒	
City: FAIR LAWN State: NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 201-797-7400 Fax: 201-797-4599		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: D092

Sample Identification	Date	Time	Matrix	No. of. Cont.	TCL VOA/TO 8260B	GRO 8015B	TCL PEST/PCB 8081A/8082	TOTAL CYANIDE 9012	DRO 8015B	TAL METALS 6010B	MERCURY 7471	TCL BNA+20 8270C	NITRATE 9056	NITRITE 9056	Sample Numbers
HA-01-05-0-6	11/20/02	1440	SOIL	5	X	→								→	392316
HA-02-08-0-6	↓	1525	↓	5	X	→								→	392317
HA-02-04-0-6	↓	1545	↓	5	X	→								→	392318
HA-02-03-0-6	↓	1605	↓	5	X	→								→	392319
HA-02-02-0-6	↓	1620	↓	5	X	→								→	392320
HA-02-06-0-6	↓	1635	↓	5	X	→								→	392321
HA-02-05-0-6	↓	1650	↓	5	X	→								→	392322
HA-02-07-0-6	↓	1710	↓	5	X	→								→	392323
HA-01-DUP	↓	1730	↓	5	X	→								→	392324
TRIP BLANK	11-19-02	—	AQ MeOH	1	X	→								→	392325
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:	1,6	1,6	1	1	1	1	1	1	1	1	
6 = Other METHANOL, 7 = Other				Water:											

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	MPI	11/20/02 1800	1) Upandya	STL-Edison
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

Laboratory Chronicles

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc.

VOAMS

SOLID - 8260B

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
392306	11/20/2002	11/20/2002			11/24/2002	Zhang, John	4816
392307	11/20/2002	11/20/2002			11/24/2002	Zhang, John	4816
392308	11/20/2002	11/20/2002			11/24/2002	Zhang, John	4816
392309	11/20/2002	11/20/2002			11/24/2002	Zhang, John	4816
392310	11/20/2002	11/20/2002			11/24/2002	Zhang, John	4816
392311	11/20/2002	11/20/2002			11/24/2002	Zhang, John	4816
392312	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392313	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392314	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392315	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392316	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392317	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392318	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392319	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392320	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392321	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392322	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392323	11/20/2002	11/20/2002			11/25/2002	Zhang, John	4816
392324	11/20/2002	11/20/2002			11/26/2002	Zhang, John	4816
392325	11/19/2002	11/20/2002			11/26/2002	Zhang, John	4816

STL EDISON

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): JOE CARAGINE	Samplers Name (Printed): JOE CARAGINE	Site/Project Identification: EARLE NWS CLOSURE
Company: MALCOLM PIRNIE INC	P.O. #: 0474-057	State (Location of site): NJ: ☒ NY: ☐ Other:
		Regulatory Program:
Address: 17-17 RTE 208 N	Analysis Turnaround Time: Standard ☒	
City: FAIR LAWN State: NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 201-797-7400 Fax: 201-797-4599		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: D092

Sample Identification	Date	Time	Matrix	No. of. Cont.	TCL VOA/TPO 8260B	GRO 8015B	TCL PEST/RB 8081A/8082	TOTAL CYANIDE 9012	DRO 8015B	TCL METALS 6010B	MERCURY 7471	TCL BNA+20 8270C	NITRATE 9056	NITRITE 9056		Sample Numbers
HA-01-05-0-6	11/20/02	1440	SOIL	5	X									→		392316
HA-02-08-0-6		1525		5	X									→		392317
HA-02-04-0-6		1545		5	X									→		392318
HA-02-03-0-6		1605		5	X									→		392319
HA-02-02-0-6		1620		5	X									→		392320
HA-02-06-0-6		1635		5	X									→		392321
HA-02-05-0-6		1650		5	X									→		392322
HA-02-07-0-6		1710		5	X									→		392323
HA-01-DUP		1730		5	X									→		392324
TRIP BLANK	11-19-02	—	AQ MEOH	1	X									→		392325
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:	1,6	1,6	1	1	1	1	1	1	1	1		
6 = Other METHANOL, 7 = Other				Water:												

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	MPI	11/20/02 1800	1) Wandya	STL-Edison
2)		/	2)	
3)		/	3)	
4)		/	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

Laboratory Chronicles

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc.

VOAGC

GROs

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
SOLID							
392306	11/20/2002	11/20/2002			11/26/2002	Zhang, John	0563
392307	11/20/2002	11/20/2002			11/26/2002	Zhang, John	0563
392308	11/20/2002	11/20/2002			11/26/2002	Zhang, John	0563
392309	11/20/2002	11/20/2002			11/26/2002	Zhang, John	0563
392310	11/20/2002	11/20/2002			11/26/2002	Zhang, John	0563
392311	11/20/2002	11/20/2002			11/26/2002	Zhang, John	0563
392312	11/20/2002	11/20/2002			11/26/2002	Zhang, John	0563
392313	11/20/2002	11/20/2002			11/26/2002	Zhang, John	0563
392314	11/20/2002	11/20/2002			11/26/2002	Zhang, John	0563
392315	11/20/2002	11/20/2002			11/26/2002	Zhang, John	0563
392316	11/20/2002	11/20/2002			11/27/2002	Zhang, John	0563
392317	11/20/2002	11/20/2002			11/27/2002	Zhang, John	0563
392318	11/20/2002	11/20/2002			11/27/2002	Zhang, John	0563
392319	11/20/2002	11/20/2002			11/27/2002	Zhang, John	0563
392320	11/20/2002	11/20/2002			11/27/2002	Zhang, John	0563
392321	11/20/2002	11/20/2002			11/27/2002	Zhang, John	0563
392322	11/20/2002	11/20/2002			11/27/2002	Zhang, John	0563
392323	11/20/2002	11/20/2002			11/27/2002	Zhang, John	0563
392324	11/20/2002	11/20/2002			11/27/2002	Zhang, John	0563

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc.

PESTGC

8081A

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
SOLID							
392306	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239
392307	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239
392308	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239
392309	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239
392310	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239
392311	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239
392312	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239
392313	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239
392314	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239
392315	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239
392316	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/3/2002	Patel, Shailesh	9239
392317	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/3/2002	Patel, Shailesh	9239
392318	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/3/2002	Patel, Shailesh	9239
392319	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/3/2002	Patel, Shailesh	9239
392320	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/3/2002	Patel, Shailesh	9239
392321	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/3/2002	Patel, Shailesh	9239
392322	11/20/2002	11/20/2002	12/4/2002	Vyas, Upesh	12/5/2002	Patel, Shailesh	9239
392323	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/3/2002	Patel, Shailesh	9239
392324	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	12/2/2002	Patel, Shailesh	9239

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc.

PESTGC

8082

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
SOLID							
392306	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/26/2002	Chamberlin, Michael	9240
392307	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392308	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392309	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392310	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392311	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392312	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392313	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392314	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392315	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392316	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392317	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392318	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392319	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392320	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392321	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392322	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392323	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/27/2002	Chamberlin, Michael	9240
392324	11/20/2002	11/20/2002	11/26/2002	Refe, Emerson	11/26/2002	Chamberlin, Michael	9240

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392306 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392307 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392308 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392309 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392310 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392311 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392312 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392313 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392314 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392315 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392316 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392317 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392318 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392319 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392320 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392321 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392322 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392323 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc. **Date Sampled:** 11/20/2002

Sample No.: 392324 **Date Received:** 11/20/2002

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	12/3/2002	Racin, Brian	12/3/2002	Racin, Brian	13554
ALUMINUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ANTIMONY	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ARSENIC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BARIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
BERYLLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CADMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CALCIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
CHROMIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COBALT	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
COPPER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
IRON	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
LEAD	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MAGNESIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
MANGANESE	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
NICKEL	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
POTASSIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SELENIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SILVER	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
SODIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
THALLIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
VANADIUM	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554
ZINC	12/3/2002	Retana, Camille	12/3/2002	Helders, Eric	13554

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc.

WET CHEM

TOTAL CYANIDE

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
SOLID							
392306	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392307	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392308	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392309	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392310	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392311	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392312	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392313	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392314	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392315	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392316	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392317	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392318	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392319	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392320	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392321	11/20/2002	11/20/2002	11/21/2002	Afremova, Izabella	11/22/2002	Kaur, Kuldeep	1104
392322	11/20/2002	11/20/2002	11/22/2002	Afremova, Izabella	11/25/2002	Kaur, Kuldeep	1104
392323	11/20/2002	11/20/2002	11/22/2002	Afremova, Izabella	11/25/2002	Kaur, Kuldeep	1104
392324	11/20/2002	11/20/2002	11/22/2002	Afremova, Izabella	11/25/2002	Kaur, Kuldeep	1104

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: D092 **Site:** Earle NWS Closure

Client: Malcolm Pirnie, Inc.

SUB

NO3/NO2 by 9056 to STL Conn. sent to STL North Canton

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
SOLID							
392306	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392307	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392308	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392309	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392310	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392311	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392312	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392313	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392314	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392315	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392316	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392317	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392318	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392319	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392320	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392321	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392322	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392323	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	
392324	11/20/2002	11/20/2002	11/22/2002	Doster, Deanna	12/10/2002	Doster, Deanna	

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

	Water Test Method		Solid Test Method	
Element	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability	- Method 1020A
Corrosivity	- Water pH Method 9040B Soil pH Method 9045C
Reactivity	- Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release
Toxicity	- TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

ORGANIC DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

ND - The compound was not detected at the indicated concentration.

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.

M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.

N - The spiked sample recovery is not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

* - Duplicate Analysis is not within control limits.

W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.

\+ - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy.

Non-Conformance Summary

NON-CONFORMANCE SUMMARY

STL Edison Job Number: D092

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Page 1 of 2

Non-conformance Summary, Page 2 of 2
STL Edison Job Number: D092

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Total Petroleum Hydrocarbons: (DRO)

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 12/16/02

GC/MS Forms and Data (Volatiles)

Results Summary and Chromatograms

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21277.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	370
Acetone	ND	620
Carbon Disulfide	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
2-Butanone	ND	620
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	370
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
Bromoform	ND	490
4-Methyl-2-Pentanone	ND	620
2-Hexanone	ND	620
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	490
Styrene	ND	620
Xylene (Total)	ND	620

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21277.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.3

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21277.d
Report Date: 25-Nov-2002 17:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21277.d
Lab Smp Id: 392306 Client Smp ID: HA-01-03-0-6
Inj Date : 24-NOV-2002 17:06
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392306;50;;10.9;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 11
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

JXZ

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	10.90000	Weight of sample extracted (g)
M	7.30000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

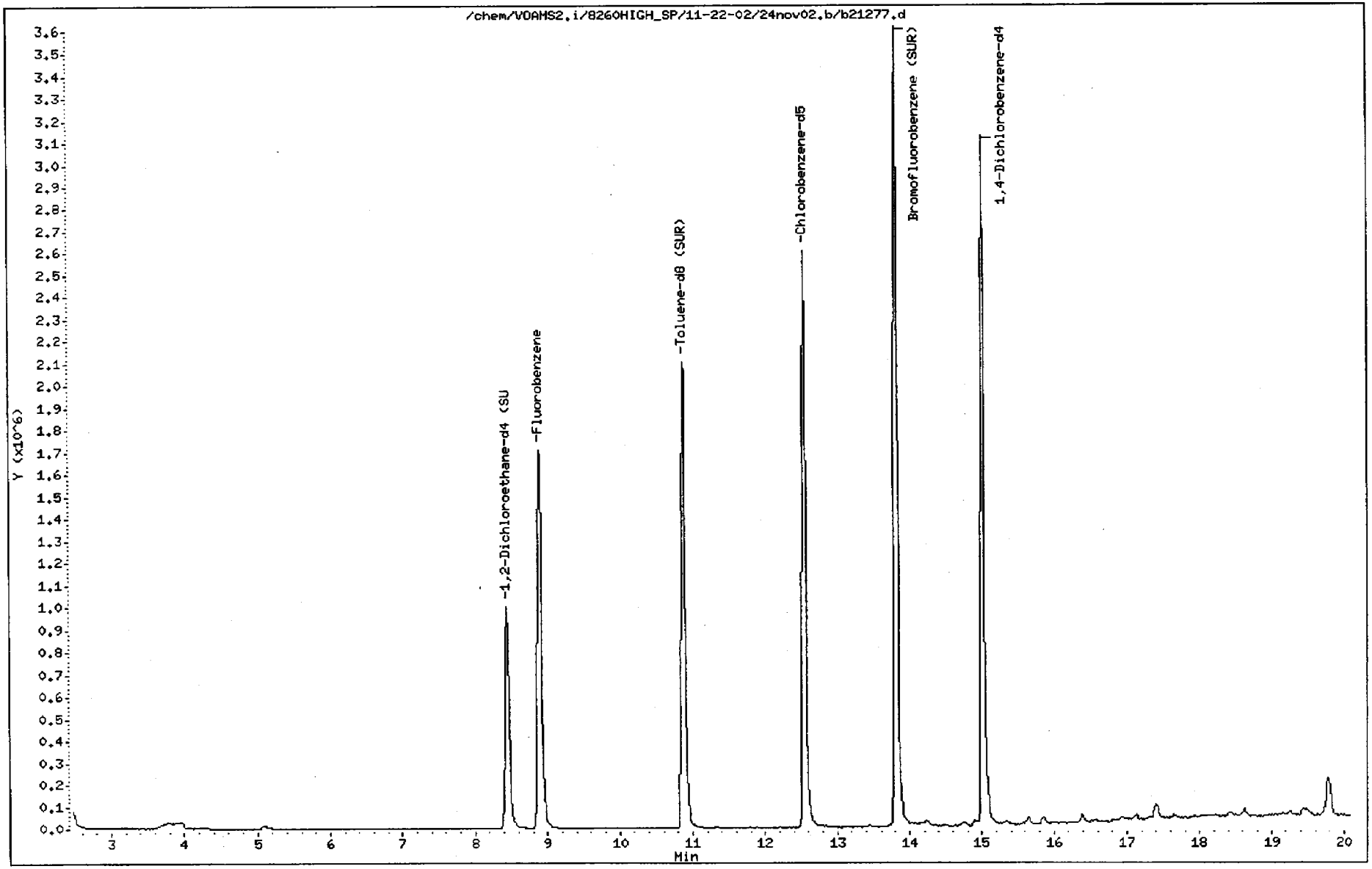
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.439	8.426	(0.948)	1583589	46.8709	5800
$ 37 Toluene-d8 (SUR)	98	10.867	10.869	(0.867)	2626074	54.5236	6700
* 32 Chlorobenzene-d5	117	12.540	12.542	(1.000)	2575511	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.813	13.815	(0.920)	2110515	47.9337	5900
* 19 Fluorobenzene	96	8.898	8.885	(1.000)	2908782	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.012	15.014	(1.000)	1662347	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21277.d
Date : 24-NOV-2002 17:06
Client ID: HA-01-03-0-6
Sample Info: 392306;50;;10.9;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53

Column phase: DB624



277

STL Edison

D092

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21278.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9.4

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21278.d
Report Date: 25-Nov-2002 17:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21278.d
Lab Smp Id: 392307 Client Smp ID: HA-01-04-0-6
Inj Date : 24-NOV-2002 17:35
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392307;50;;10.3;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 12
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	10.30000	Weight of sample extracted (g)
M	9.40000	% Moisture (not decanted)

-5 x 2

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.438	8.426	(0.950)	1601919	46.2526	6200
$ 37 Toluene-d8 (SUR)	98	10.880	10.869	(0.868)	2666229	53.7002	7200
* 32 Chlorobenzene-d5	117	12.538	12.542	(1.000)	2654984	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.811	13.815	(0.920)	2187484	45.9249	6200
* 19 Fluorobenzene	96	8.882	8.885	(1.000)	2981788	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.011	15.014	(1.000)	1798337	50.0000	

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21278.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9.4

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21278.d
Report Date: 25-Nov-2002 17:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21278.d
Lab Smp Id: 392307 Client Smp ID: HA-01-04-0-6
Inj Date : 24-NOV-2002 17:35
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392307;50;;10.3;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 12
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	10.30000	Weight of sample extracted (g)
M	9.40000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.438	8.426	(0.950)	1601919	46.2526	6200
$ 37 Toluene-d8 (SUR)	98	10.880	10.869	(0.868)	2666229	53.7002	7200
* 32 Chlorobenzene-d5	117	12.538	12.542	(1.000)	2654984	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.811	13.815	(0.920)	2187484	45.9249	6200
* 19 Fluorobenzene	96	8.882	8.885	(1.000)	2981788	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.011	15.014	(1.000)	1798337	50.0000	

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21279.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21279.d
Report Date: 25-Nov-2002 17:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21279.d
Lab Smp Id: 392308 Client Smp ID: HA-01-02-0-6
Inj Date : 24-NOV-2002 18:04
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392308;50;;11.5;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 13
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

JXZ

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.50000	Weight of sample extracted (g)
M	9.60000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.440	8.426	(0.950)	1546799	45.2529	5400
$ 37 Toluene-d8 (SUR)	98	10.868	10.869	(0.867)	2567430	52.1498	6300
* 32 Chlorobenzene-d5	117	12.541	12.542	(1.000)	2632611	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.814	13.815	(0.920)	2057522	46.8458	5600
* 19 Fluorobenzene	96	8.884	8.885	(1.000)	2942793	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.013	15.014	(1.000)	1658244	50.0000	

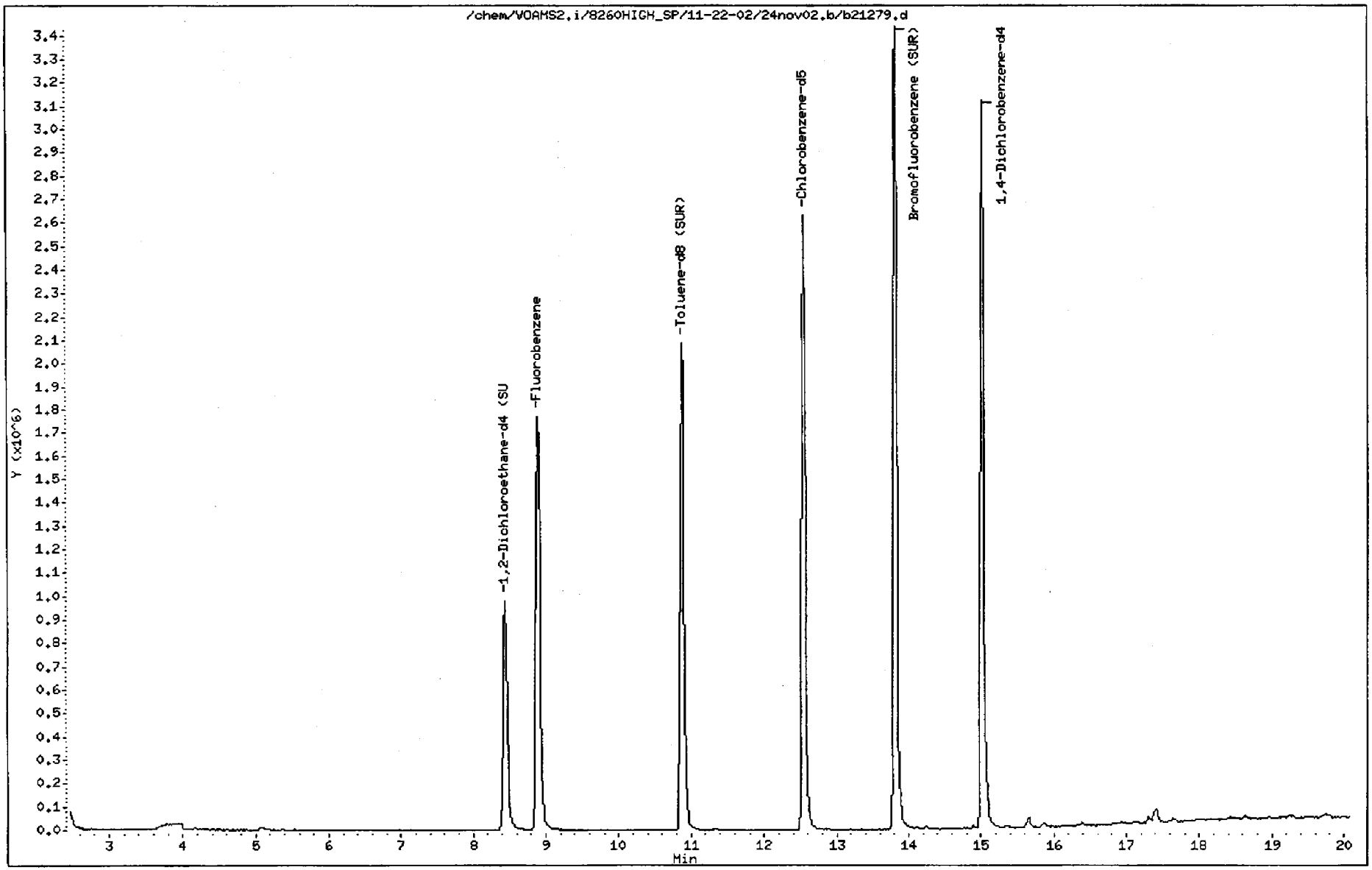
Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21279.d
Date : 24-NOV-2002 18:04
Client ID: HA-01-02-0-6
Sample Info: 392308;50;;11.5;25

Instrument: VOAMS2.i

Operator: VOAMS 4

Column phase: DB624

Column diameter: 0.53



Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21280.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	590
Bromomethane	ND	590
Vinyl Chloride	ND	590
Chloroethane	ND	590
Methylene Chloride	ND	360
Acetone	ND	590
Carbon Disulfide	ND	590
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND	590
trans-1,2-Dichloroethene	ND	590
cis-1,2-Dichloroethene	ND	590
Chloroform	ND	590
1,2-Dichloroethane	ND	240
2-Butanone	ND	590
1,1,1-Trichloroethane	ND	590
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	590
Trichloroethene	ND	120
Dibromochloromethane	ND	590
1,1,2-Trichloroethane	ND	360
Benzene	ND	120
trans-1,3-Dichloropropene	ND	590
Bromoform	ND	480
4-Methyl-2-Pentanone	ND	590
2-Hexanone	ND	590
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	590
Chlorobenzene	ND	590
Ethylbenzene	ND	480
Styrene	ND	590
Xylene (Total)	ND	590

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21280.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21280.d
Report Date: 02-Dec-2002 13:01

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21280.d
Lab Smp Id: 392309 Client Smp ID: HA-01-12-0-6
Inj Date : 24-NOV-2002 18:33
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392309;50;;11.5;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 14
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.50000	Weight of sample extracted (g)
M	8.60000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

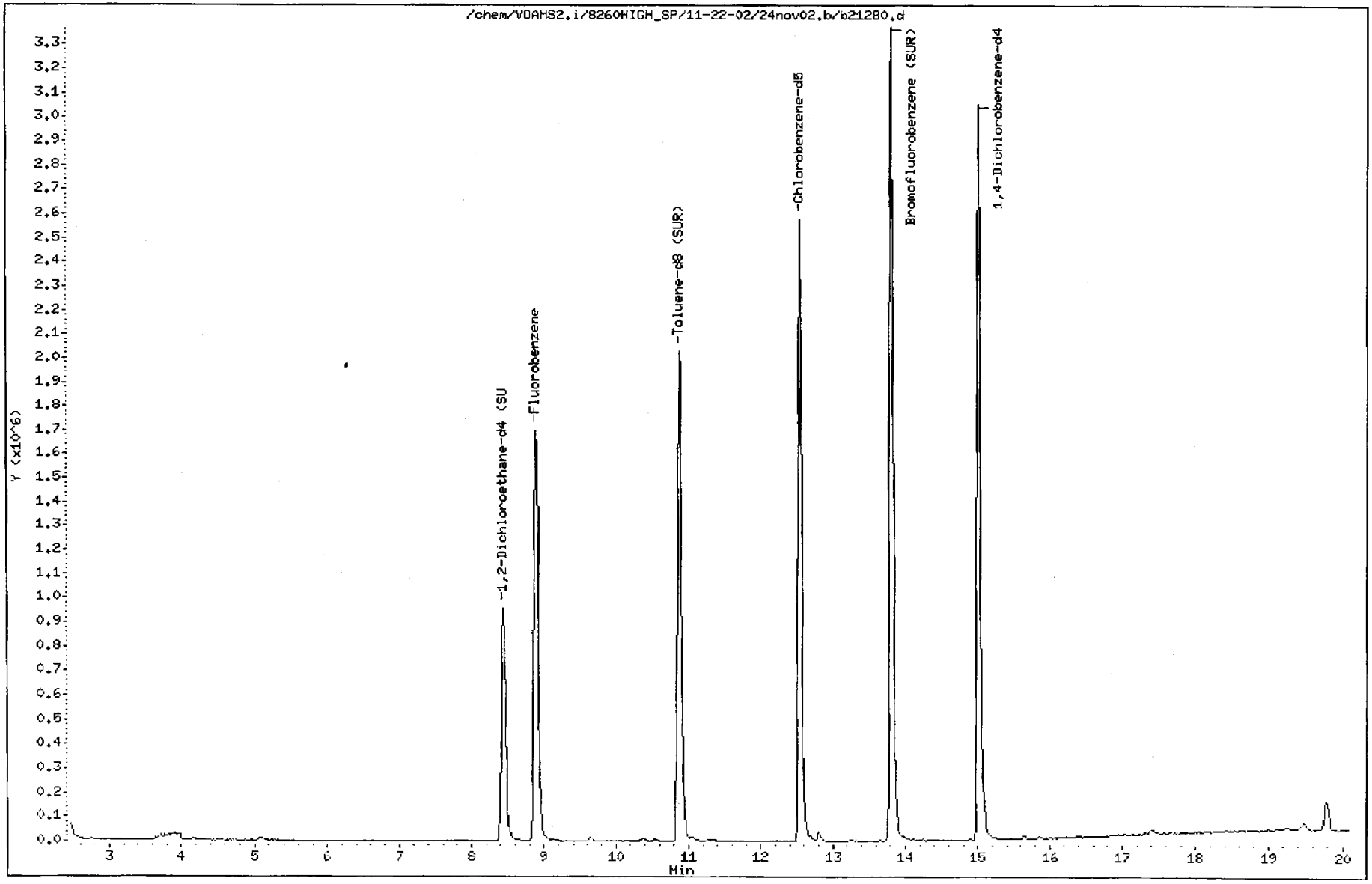
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.439	8.426	(0.950)	1552750	46.8887	5600
$ 37 Toluene-d8 (SUR)	98	10.866	10.869	(0.867)	2527025	53.2100	6300
* 32 Chlorobenzene-d5	117	12.539	12.542	(1.000)	2539551	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.812	13.815	(0.920)	1999407	46.5130	5500
* 19 Fluorobenzene	96	8.883	8.885	(1.000)	2851054	50.0000	
* 91 1,4 Dichlorobenzene-d4	152	15.011	15.014	(1.000)	1622934	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21280.d
Date : 24-NOV-2002 18:33
Client ID: HA-01-12-0-6
Sample Info: 392309;50;;11.5;25

Column phase: DB624

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53



Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21281.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.7 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 6

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	570
Bromomethane	ND	570
Vinyl Chloride	ND	570
Chloroethane	ND	570
Methylene Chloride	ND	340
Acetone	ND	570
Carbon Disulfide	ND	570
1,1-Dichloroethene	ND	230
1,1-Dichloroethane	ND	570
trans-1,2-Dichloroethene	ND	570
cis-1,2-Dichloroethene	ND	570
Chloroform	ND	570
1,2-Dichloroethane	ND	230
2-Butanone	ND	570
1,1,1-Trichloroethane	ND	570
Carbon Tetrachloride	ND	230
Bromodichloromethane	ND	110
1,2-Dichloropropane	ND	110
cis-1,3-Dichloropropene	ND	570
Trichloroethene	ND	110
Dibromochloromethane	ND	570
1,1,2-Trichloroethane	ND	340
Benzene	ND	110
trans-1,3-Dichloropropene	ND	570
Bromoform	ND	450
4-Methyl-2-Pentanone	ND	570
2-Hexanone	ND	570
Tetrachloroethene	ND	110
1,1,2,2-Tetrachloroethane	ND	110
Toluene	ND	570
Chlorobenzene	ND	570
Ethylbenzene	ND	450
Styrene	ND	570
Xylene (Total)	ND	570

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21281.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.7 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 5.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21281.d
Report Date: 25-Nov-2002 17:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21281.d
Lab Smp Id: 392310 Client Smp ID: HA-01-11-0-6
Inj Date : 24-NOV-2002 19:02
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392310;50;;11.7;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 15
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.70000	Weight of sample extracted (g)
M	5.90000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

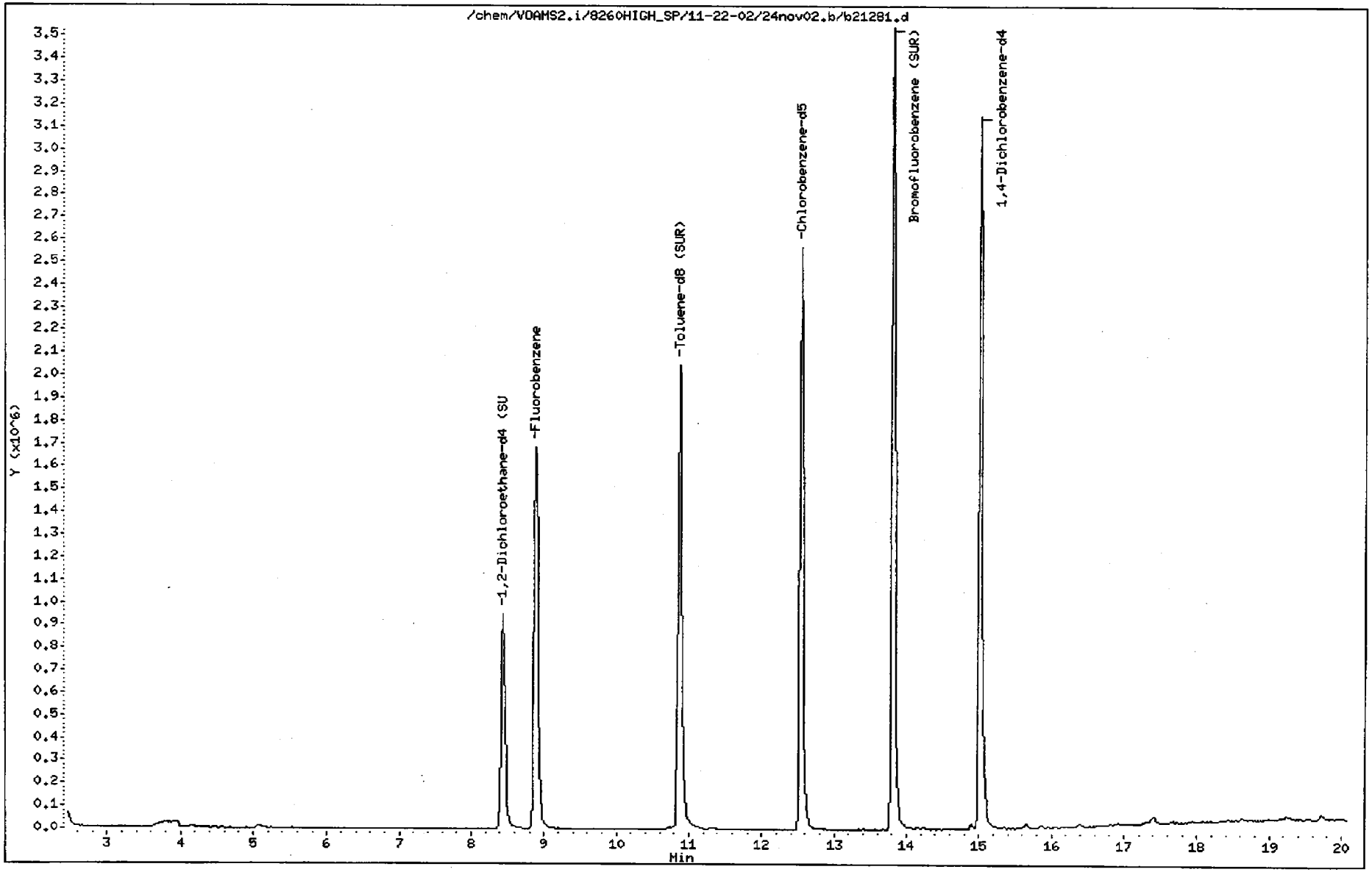
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.438	8.426	(0.948)	1491906	44.9609	5100
$ 37 Toluene-d8 (SUR)	98	10.865	10.869	(0.867)	2491356	52.0614	5900
* 32 Chlorobenzene-d5	117	12.538	12.542	(1.000)	2558945	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.811	13.815	(0.920)	2055673	46.5506	5300
* 19 Fluorobenzene	96	8.897	8.885	(1.000)	2856792	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.010	15.014	(1.000)	1667258	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21281.d
Date : 24-NOV-2002 19:02
Client ID: HA-01-11-0-6
Sample Info: 392310;50;;11.7;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53

Column phase: DB624



293

STL Edison

D092

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21282.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	630
Bromomethane	ND	630
Vinyl Chloride	ND	630
Chloroethane	ND	630
Methylene Chloride	ND	380
Acetone	ND	630
Carbon Disulfide	ND	630
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	630
trans-1,2-Dichloroethene	ND	630
cis-1,2-Dichloroethene	ND	630
Chloroform	ND	630
1,2-Dichloroethane	ND	250
2-Butanone	ND	630
1,1,1-Trichloroethane	ND	630
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	630
Trichloroethene	ND	130
Dibromochloromethane	ND	630
1,1,2-Trichloroethane	ND	380
Benzene	ND	130
trans-1,3-Dichloropropene	ND	630
Bromoform	ND	500
4-Methyl-2-Pentanone	ND	630
2-Hexanone	ND	630
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	630
Chlorobenzene	ND	630
Ethylbenzene	ND	500
Styrene	ND	630
Xylene (Total)	ND	630

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21282.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.1

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21282.d
Report Date: 25-Nov-2002 17:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21282.d
Lab Smp Id: 392311 Client Smp ID: HA-01-10-0-6
Inj Date : 24-NOV-2002 19:31
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392311;50;;11.0;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 16
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.00000	Weight of sample extracted (g)
M	10.10000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

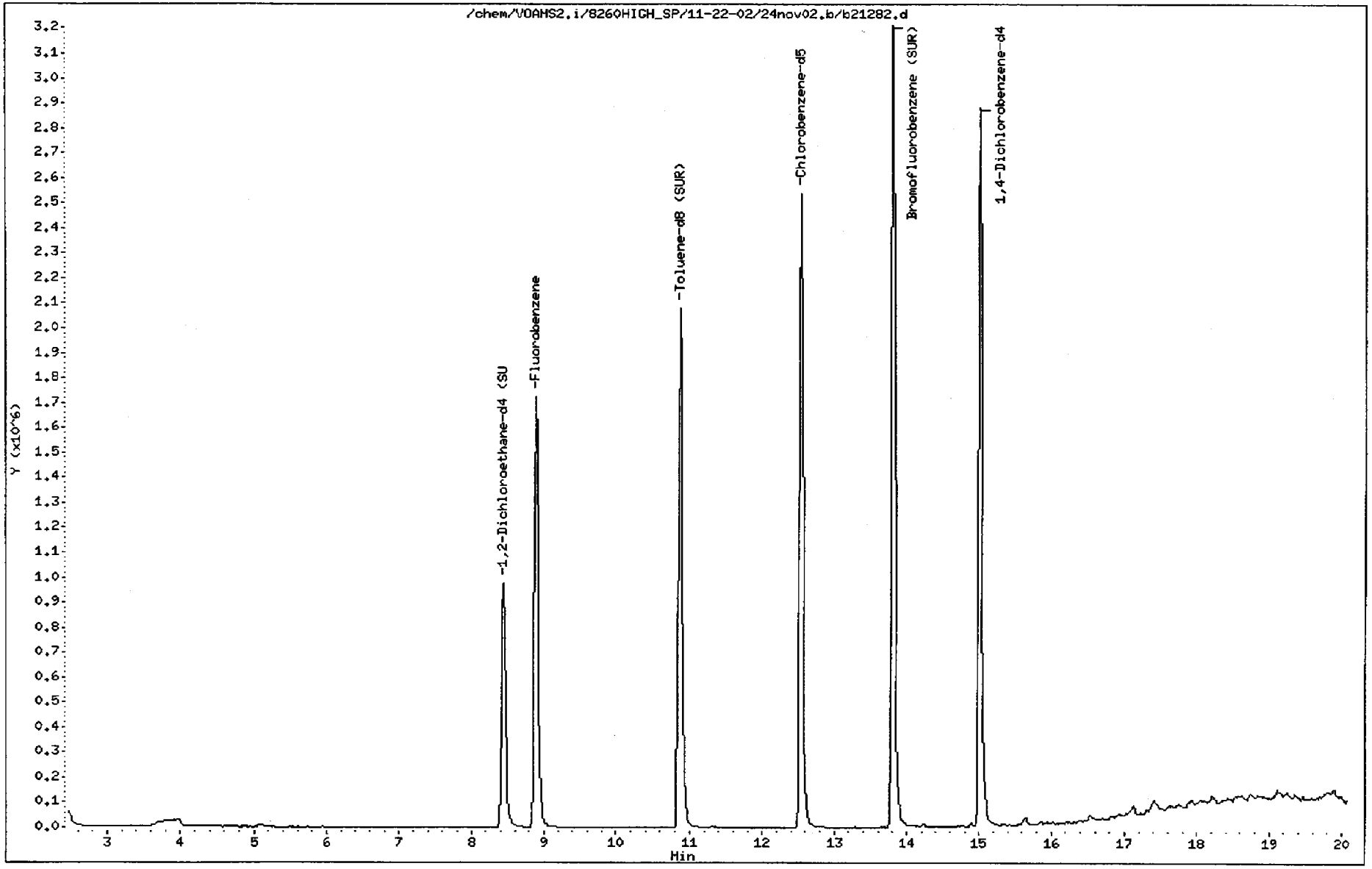
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.440	8.426	(0.950)	1553127	46.9361	5900
$ 37 Toluene-d8 (SUR)	98	10.868	10.869	(0.867)	2510756	53.0927	6700
* 32 Chlorobenzene-d5	117	12.541	12.542	(1.000)	2528774	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.814	13.815	(0.920)	1951025	47.8856	6000
* 19 Fluorobenzene	96	8.884	8.885	(1.000)	2848864	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.013	15.014	(1.000)	1538267	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21282.d
Date : 24-NOV-2002 19:31
Client ID: HA-01-10-0-6
Sample Info: 392311;50;;11.0;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53

Column phase: DB624



297

STL Edison

D092

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21296.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.8 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	590
Bromomethane	ND	590
Vinyl Chloride	ND	590
Chloroethane	ND	590
Methylene Chloride	ND	360
Acetone	ND	590
Carbon Disulfide	ND	590
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND	590
trans-1,2-Dichloroethene	ND	590
cis-1,2-Dichloroethene	250 J	590
Chloroform	ND	590
1,2-Dichloroethane	ND	240
2-Butanone	ND	590
1,1,1-Trichloroethane	ND	590
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	590
Trichloroethene	ND	120
Dibromochloromethane	ND	590
1,1,2-Trichloroethane	ND	360
Benzene	ND	120
trans-1,3-Dichloropropene	ND	590
Bromoform	ND	480
4-Methyl-2-Pentanone	ND	590
2-Hexanone	ND	590
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	590
Chlorobenzene	ND	590
Ethylbenzene	ND	480
Styrene	ND	590
Xylene (Total)	ND	590

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21296.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.8 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21296.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21296.d
Lab Smp Id: 392312 Client Smp ID: HA-01-09-0-6
Inj Date : 25-NOV-2002 14:49
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392312;50;;11.8;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 4
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.80000	Weight of sample extracted (g)
M	10.90000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
13 cis-1,2-Dichloroethene	96	7.342	7.301	(0.825)	44419	2.12904	250(a)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.453	8.411	(0.950)	1493496	49.5577	5900
$ 37 Toluene-d8 (SUR)	98	10.880	10.854	(0.867)	2381242	53.5489	6400
* 32 Chlorobenzene-d5	117	12.553	12.527	(1.000)	2377899	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.826	13.800	(0.920)	1989407	45.9120	5400
* 19 Fluorobenzene	96	8.897	8.870	(1.000)	2594565	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.026	14.999	(1.000)	1635955	50.0000	

QC Flag Legend

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

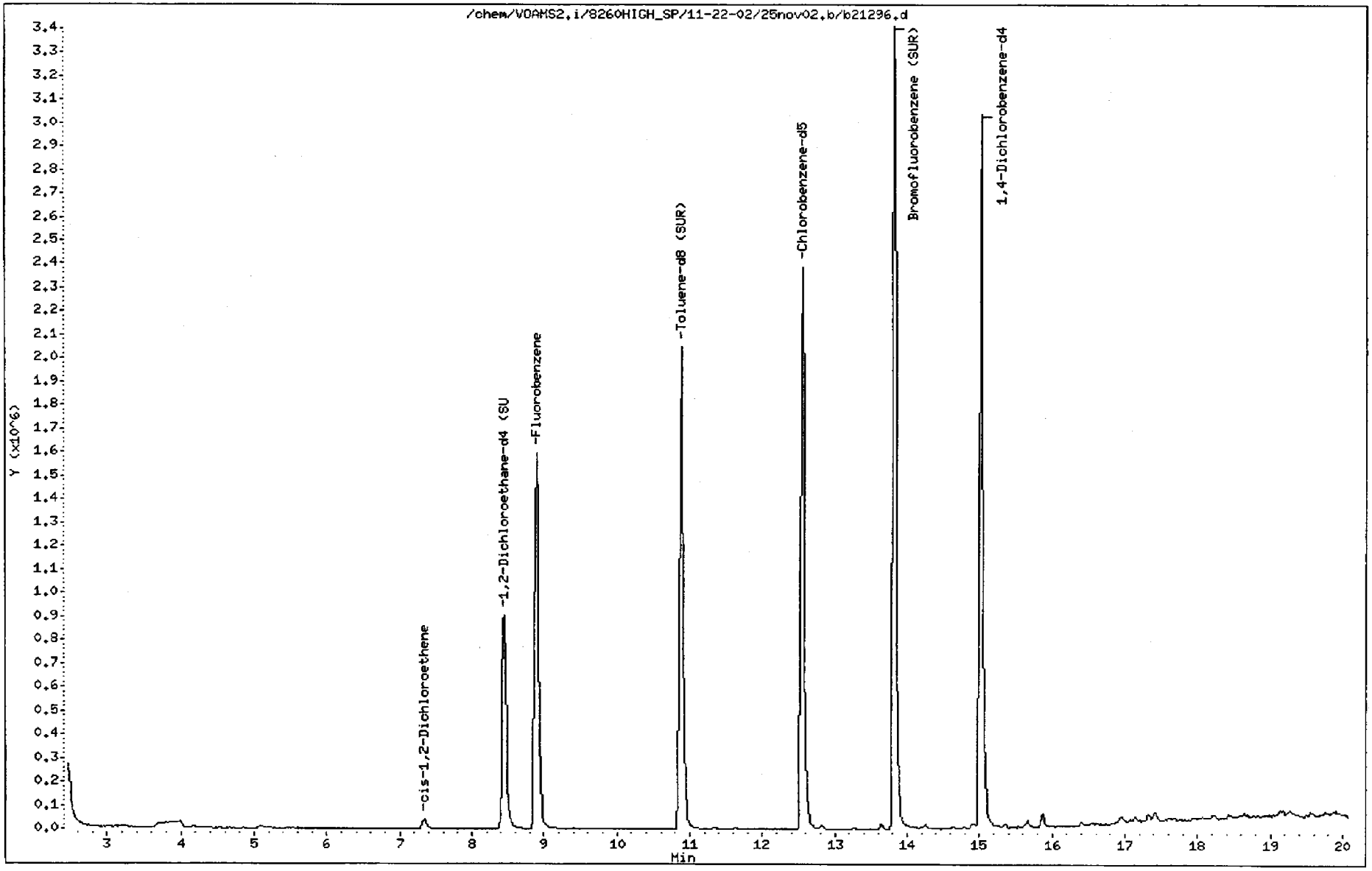
Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21296.d
Date : 25-NOV-2002 14:49
Client ID: HA-01-09-0-6
Sample Info: 392312;50;;11.8;25

Instrument: VOAMS2.i

Operator: VOAMS 4

Column phase: DB624

Column diameter: 0.53



STL Edison

D092

301

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21296.d

Date : 25-NOV-2002 14:49

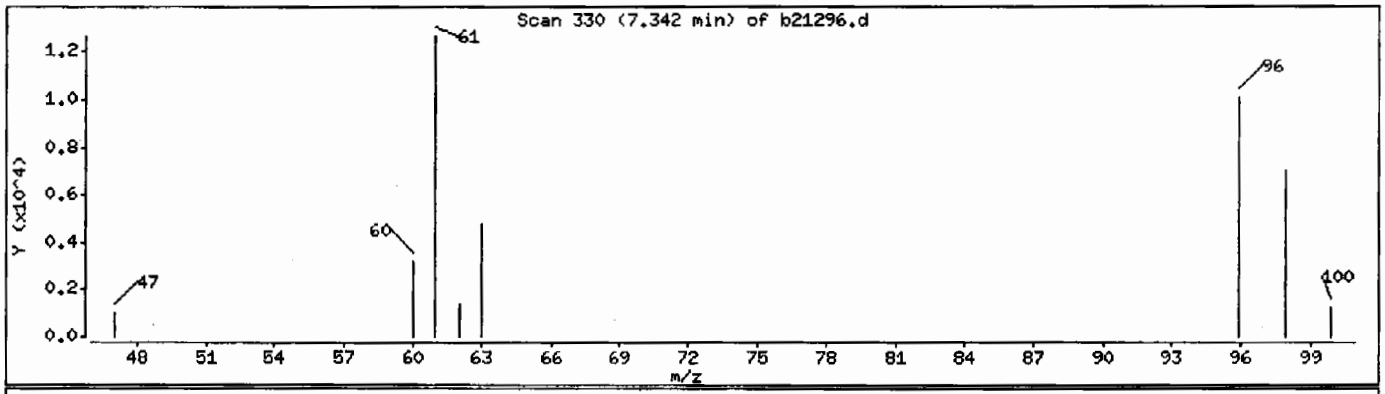
Client ID: HA-01-09-0-6 Instrument: VOAMS2.i

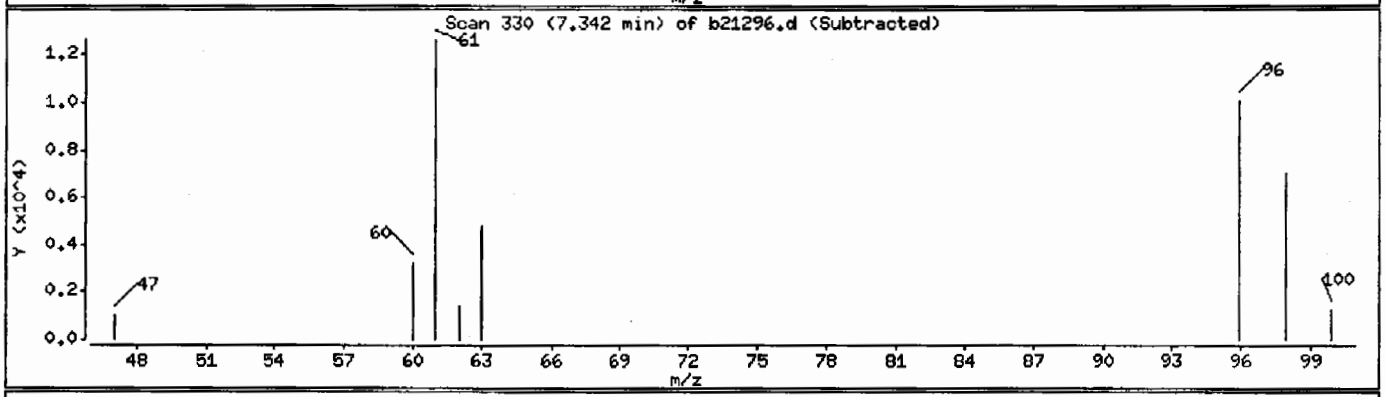
Sample Info: 392312;50;;11.8;25

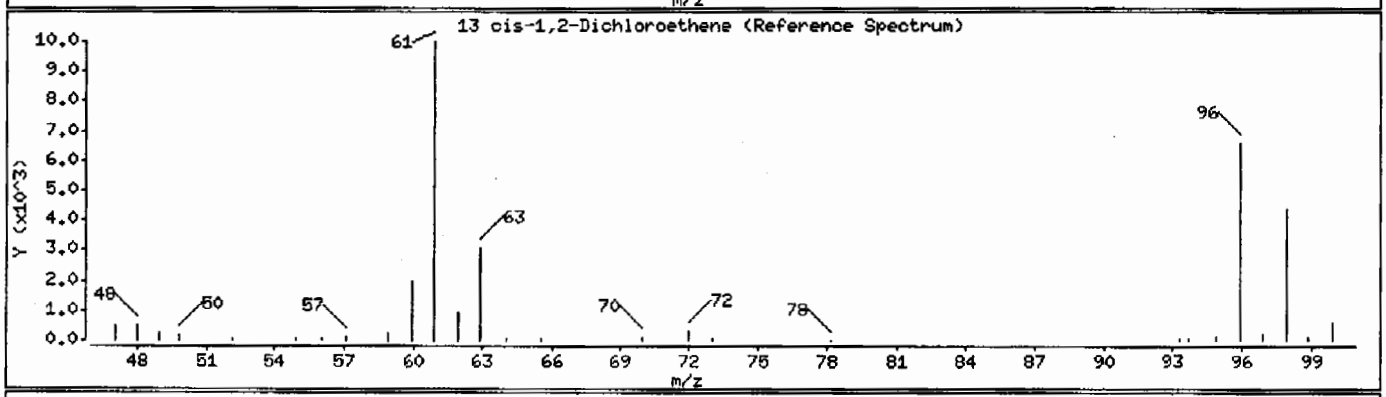
Operator: VOAMS 4

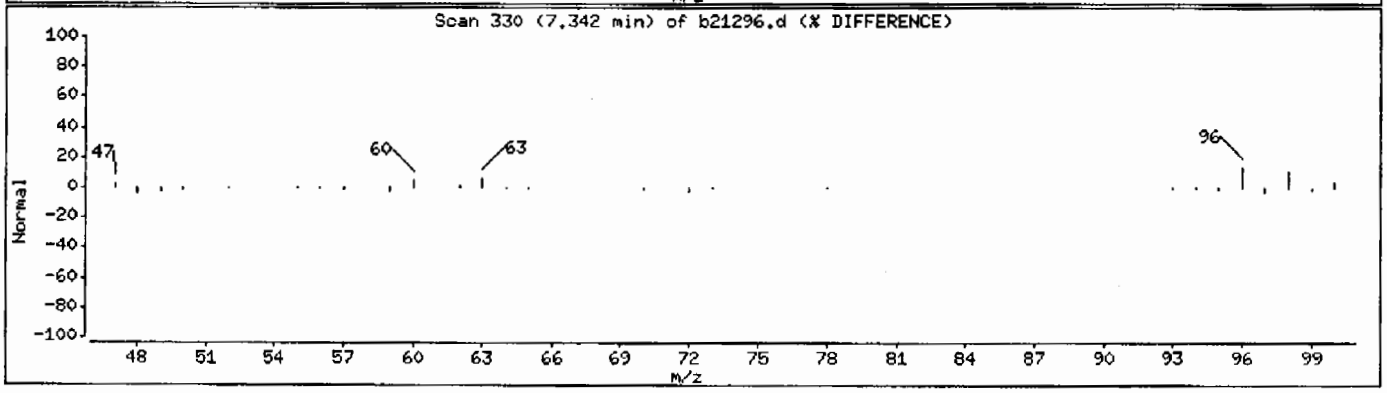
Column phase: DB624 Column diameter: 0.53

13 cis-1,2-Dichloroethene Concentration: 250 ug/Kg









Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21297.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	370
Acetone	ND	620
Carbon Disulfide	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
2-Butanone	ND	620
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	370
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
Bromoform	ND	500
4-Methyl-2-Pentanone	ND	620
2-Hexanone	ND	620
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Styrene	ND	620
Xylene (Total)	ND	620

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21297.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21297.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21297.d
Lab Smp Id: 392313 Client Smp ID: HA-01-08-0-6
Inj Date : 25-NOV-2002 15:19
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392313;50;;11.2;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 5
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.20000	Weight of sample extracted (g)
M	10.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

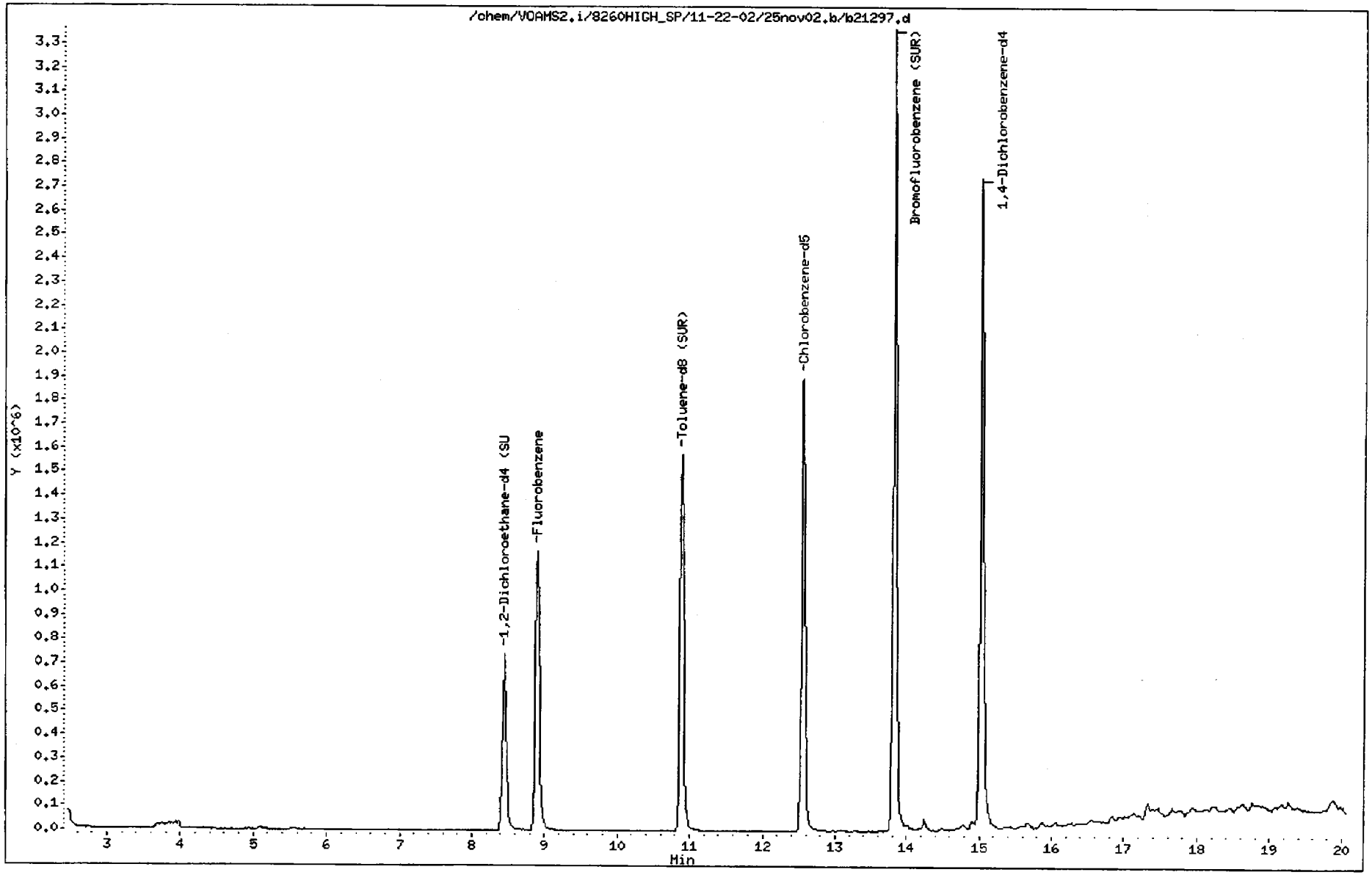
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.442	8.411	(0.948)	1199633	53.2341	6600
$ 37 Toluene-d8 (SUR)	98	10.885	10.854	(0.867)	1905212	50.2634	6200
* 32 Chlorobenzene-d5	117	12.557	12.527	(1.000)	2026899	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.816	13.800	(0.919)	1895538	46.5123	5800
* 19 Fluorobenzene	96	8.901	8.870	(1.000)	1940130	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.030	14.999	(1.000)	1538646	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21297.d
Date : 25-NOV-2002 15:19
Client ID: HA-01-08-0-6
Sample Info: 392313;50;;11.2;25

Column phase: DB624

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53



306

STL Edison

D092

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21298.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	630
Bromomethane	ND	630
Vinyl Chloride	ND	630
Chloroethane	ND	630
Methylene Chloride	ND	380
Acetone	ND	630
Carbon Disulfide	ND	630
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	630
trans-1,2-Dichloroethene	ND	630
cis-1,2-Dichloroethene	ND	630
Chloroform	ND	630
1,2-Dichloroethane	ND	250
2-Butanone	ND	630
1,1,1-Trichloroethane	ND	630
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	630
Trichloroethene	ND	130
Dibromochloromethane	ND	630
1,1,2-Trichloroethane	ND	380
Benzene	ND	130
trans-1,3-Dichloropropene	ND	630
Bromoform	ND	500
4-Methyl-2-Pentanone	ND	630
2-Hexanone	ND	630
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	630
Chlorobenzene	ND	630
Ethylbenzene	ND	500
Styrene	ND	630
Xylene (Total)	120 J	630

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21298.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12.4

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21298.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21298.d
Lab Smp Id: 392314 Client Smp ID: HA-01-07-0-6
Inj Date : 25-NOV-2002 15:49
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392314;50;;11.3;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 6
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.30000	Weight of sample extracted (g)
M	12.40000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.439	8.411	(0.948)	1535093	49.8630	6300
$ 37 Toluene-d8 (SUR)	98	10.881	10.854	(0.867)	2292687	53.1311	6700
* 32 Chlorobenzene-d5	117	12.554	12.527	(1.000)	2307472	50.0000	
M 45 Xylene (Total)	100				21103	0.96434	120(a)
43 m+p-Xylene	106	12.821	12.793	(1.021)	21103	0.95541	120(a)
$ 41 Bromofluorobenzene (SUR)	174	13.827	13.800	(0.920)	1891241	47.3162	6000
* 19 Fluorobenzene	96	8.898	8.870	(1.000)	2650504	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.026	14.999	(1.000)	1509076	50.0000	

QC Flag Legend

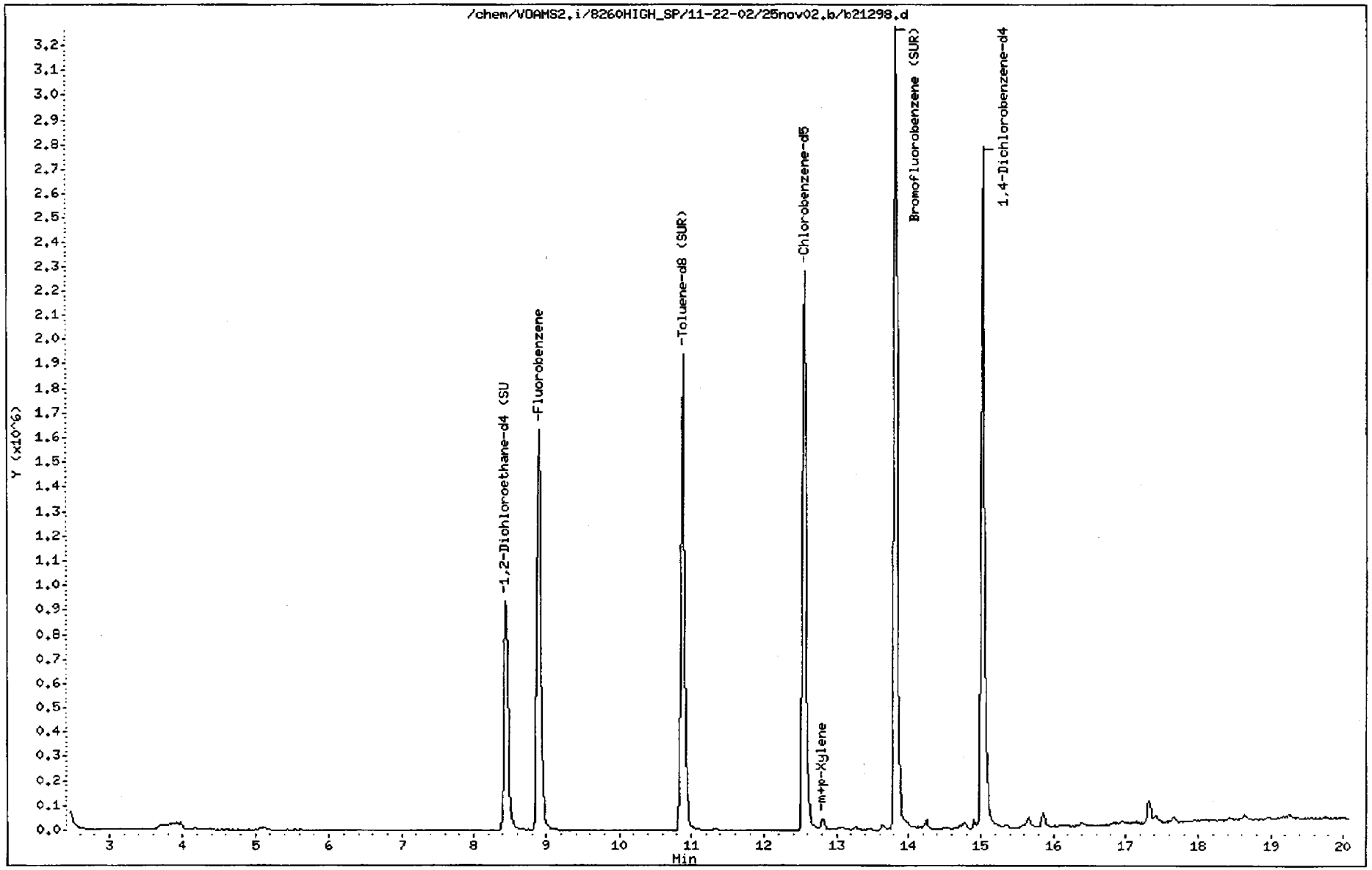
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21298.d
Date : 25-NOV-2002 15:49
Client ID: HA-01-07-0-6
Sample Info: 392314;50;;11.3;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53

Column phase: DB624



STL Edison

D092

310

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21298.d

Date : 25-NOV-2002 15:49

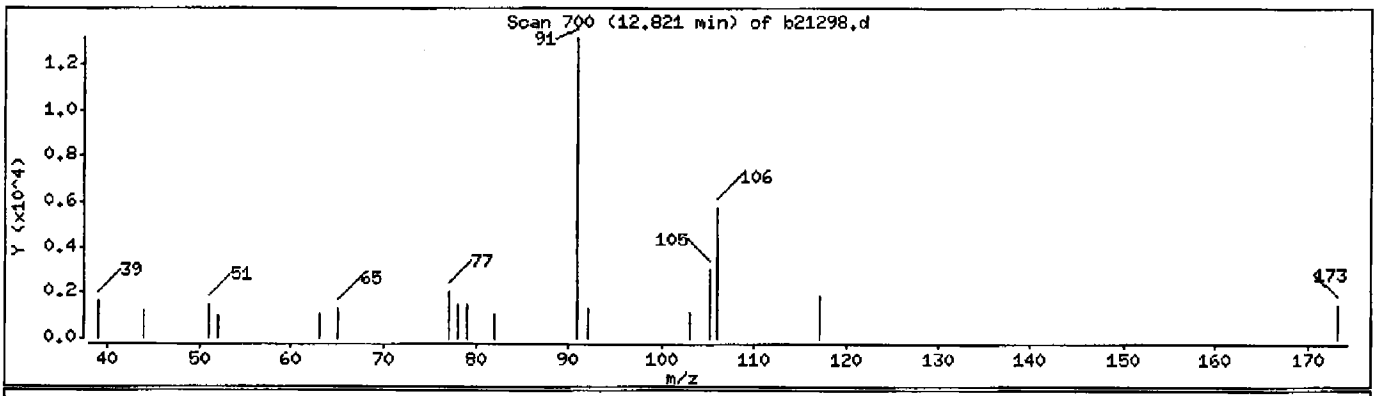
Client ID: HA-01-07-0-6 Instrument: VOAMS2.i

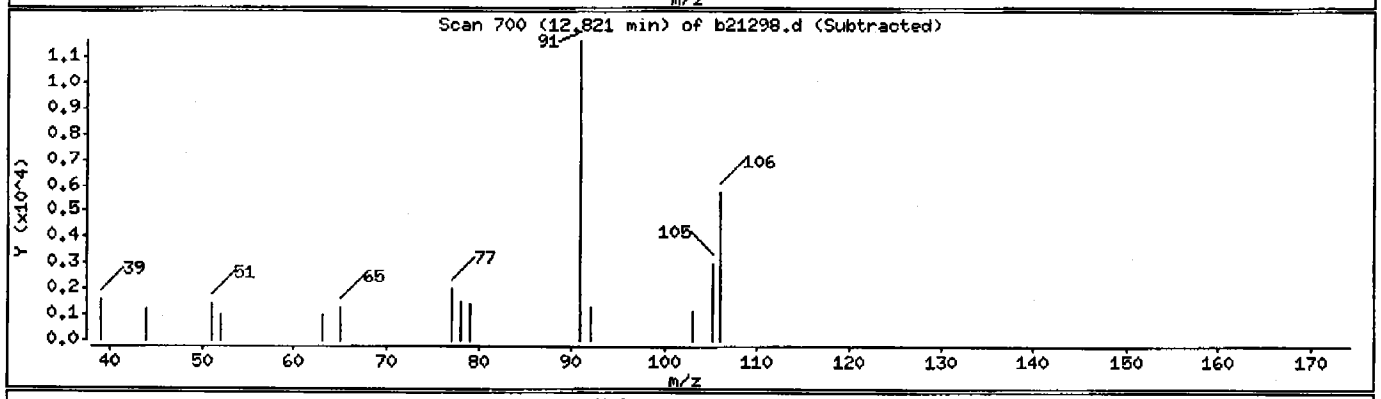
Sample Info: 392314;50;;11.3;25

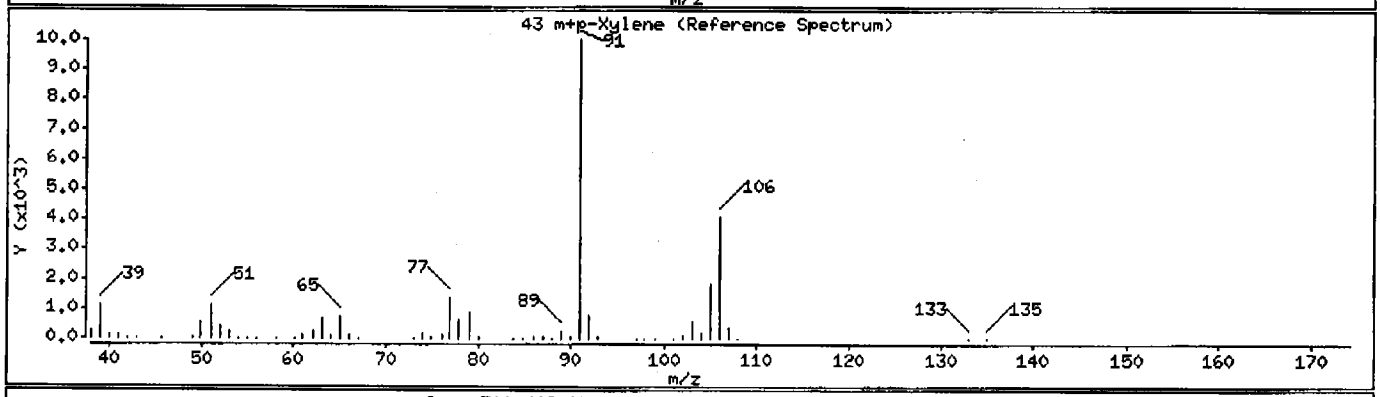
Operator: VOAMS 4

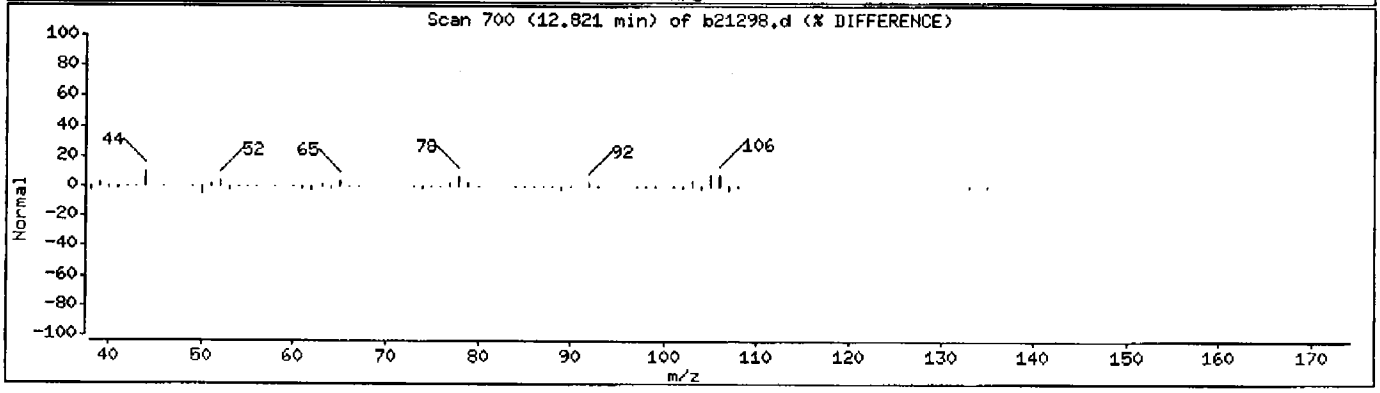
Column phase: DB624 Column diameter: 0.53

43 m+p-Xylene Concentration: 120 ug/Kg









Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21299.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	630
Bromomethane	ND	630
Vinyl Chloride	ND	630
Chloroethane	ND	630
Methylene Chloride	ND	380
Acetone	ND	630
Carbon Disulfide	ND	630
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	630
trans-1,2-Dichloroethene	ND	630
cis-1,2-Dichloroethene	ND	630
Chloroform	ND	630
1,2-Dichloroethane	ND	250
2-Butanone	ND	630
1,1,1-Trichloroethane	ND	630
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	630
Trichloroethene	ND	130
Dibromochloromethane	ND	630
1,1,2-Trichloroethane	ND	380
Benzene	ND	130
trans-1,3-Dichloropropene	ND	630
Bromoform	ND	510
4-Methyl-2-Pentanone	ND	630
2-Hexanone	ND	630
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	630
Chlorobenzene	ND	630
Ethylbenzene	ND	510
Styrene	ND	630
Xylene (Total)	ND	630

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21299.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.4

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21299.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21299.d
Lab Smp Id: 392315 Client Smp ID: HA-01-06-0-6
Inj Date : 25-NOV-2002 16:19
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392315;50;;11.0;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 7
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

J x Z

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.00000	Weight of sample extracted (g)
M	10.40000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

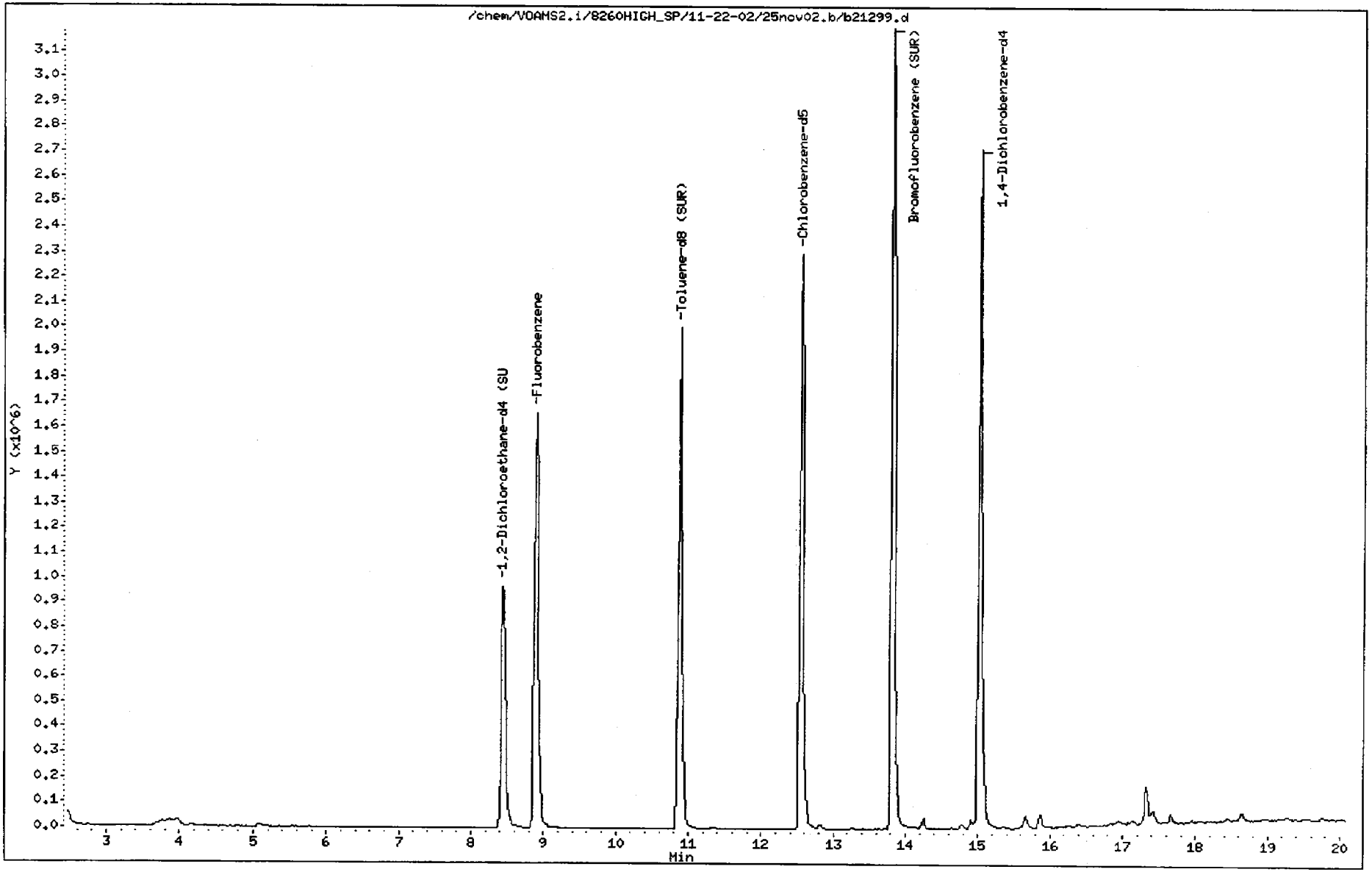
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.438	8.411	(0.948)	1575272	49.7916	6300
$ 37 Toluene-d8 (SUR)	98	10.881	10.854	(0.867)	2342154	54.0974	6900
* 32 Chlorobenzene-d5	117	12.554	12.527	(1.000)	2315151	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.827	13.800	(0.920)	1874146	48.5824	6200
* 19 Fluorobenzene	96	8.897	8.870	(1.000)	2723779	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.026	14.999	(1.000)	1456461	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21299.d
Date : 25-NOV-2002 16:19
Client ID: HA-01-06-0-6
Sample Info: 392315;50;;11.0;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53

Column phase: DB624



Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21300.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	370
Acetone	ND	620
Carbon Disulfide	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
2-Butanone	ND	620
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	370
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
Bromoform	ND	490
4-Methyl-2-Pentanone	ND	620
2-Hexanone	ND	620
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	490
Styrene	ND	620
Xylene (Total)	ND	620

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21300.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.7

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21300.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21300.d
Lab Smp Id: 392316 Client Smp ID: HA-01-05-0-6
Inj Date : 25-NOV-2002 16:49
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392316;50;;11.5;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 8
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.50000	Weight of sample extracted (g)
M	11.70000	% Moisture (not decanted)

J X Z

Cpnd Variable Local Compound Variable

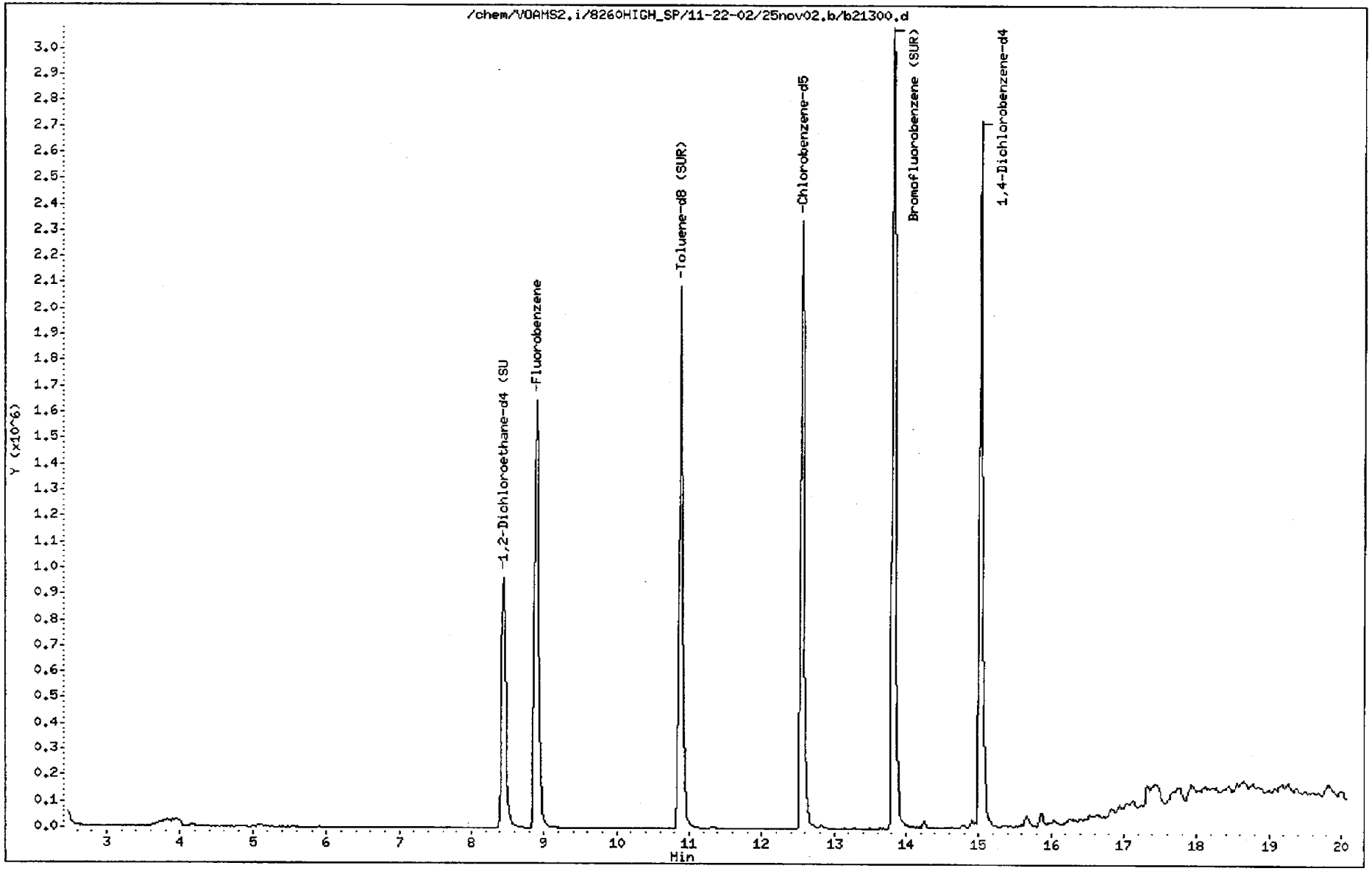
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.453	8.411	(0.950)	1555862	49.9027	6100
$ 37 Toluene-d8 (SUR)	98	10.881	10.854	(0.867)	2472341	57.0483	7000
* 32 Chlorobenzene-d5	117	12.554	12.527	(1.000)	2317427	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.827	13.800	(0.920)	1831970	47.4807	5800
* 19 Fluorobenzene	96	8.898	8.870	(1.000)	2684228	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.026	14.999	(1.000)	1456719	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21300.d
Date : 25-NOV-2002 16:49
Client ID: HA-01-05-0-6
Sample Info: 392316;50;;11.5;25

Column phase: DB624

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53



Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21301.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	730
Bromomethane	ND	730
Vinyl Chloride	ND	730
Chloroethane	ND	730
Methylene Chloride	ND	440
Acetone	ND	730
Carbon Disulfide	ND	730
1,1-Dichloroethene	ND	290
1,1-Dichloroethane	ND	730
trans-1,2-Dichloroethene	ND	730
cis-1,2-Dichloroethene	ND	730
Chloroform	ND	730
1,2-Dichloroethane	ND	290
2-Butanone	ND	730
1,1,1-Trichloroethane	ND	730
Carbon Tetrachloride	ND	290
Bromodichloromethane	ND	150
1,2-Dichloropropane	ND	150
cis-1,3-Dichloropropene	ND	730
Trichloroethene	ND	150
Dibromochloromethane	ND	730
1,1,2-Trichloroethane	ND	440
Benzene	ND	150
trans-1,3-Dichloropropene	ND	730
Bromoform	ND	590
4-Methyl-2-Pentanone	ND	730
2-Hexanone	ND	730
Tetrachloroethene	ND	150
1,1,2,2-Tetrachloroethane	ND	150
Toluene	ND	730
Chlorobenzene	ND	730
Ethylbenzene	ND	590
Styrene	ND	730
Xylene (Total)	ND	730

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21301.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.4

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21301.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21301.d
Lab Smp Id: 392317 Client Smp ID: HA-02-08-0-6
Inj Date : 25-NOV-2002 17:19
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392317;50;;9.5;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 9
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	9.50000	Weight of sample extracted (g)
M	10.40000	% Moisture (not decanted)

J x Z

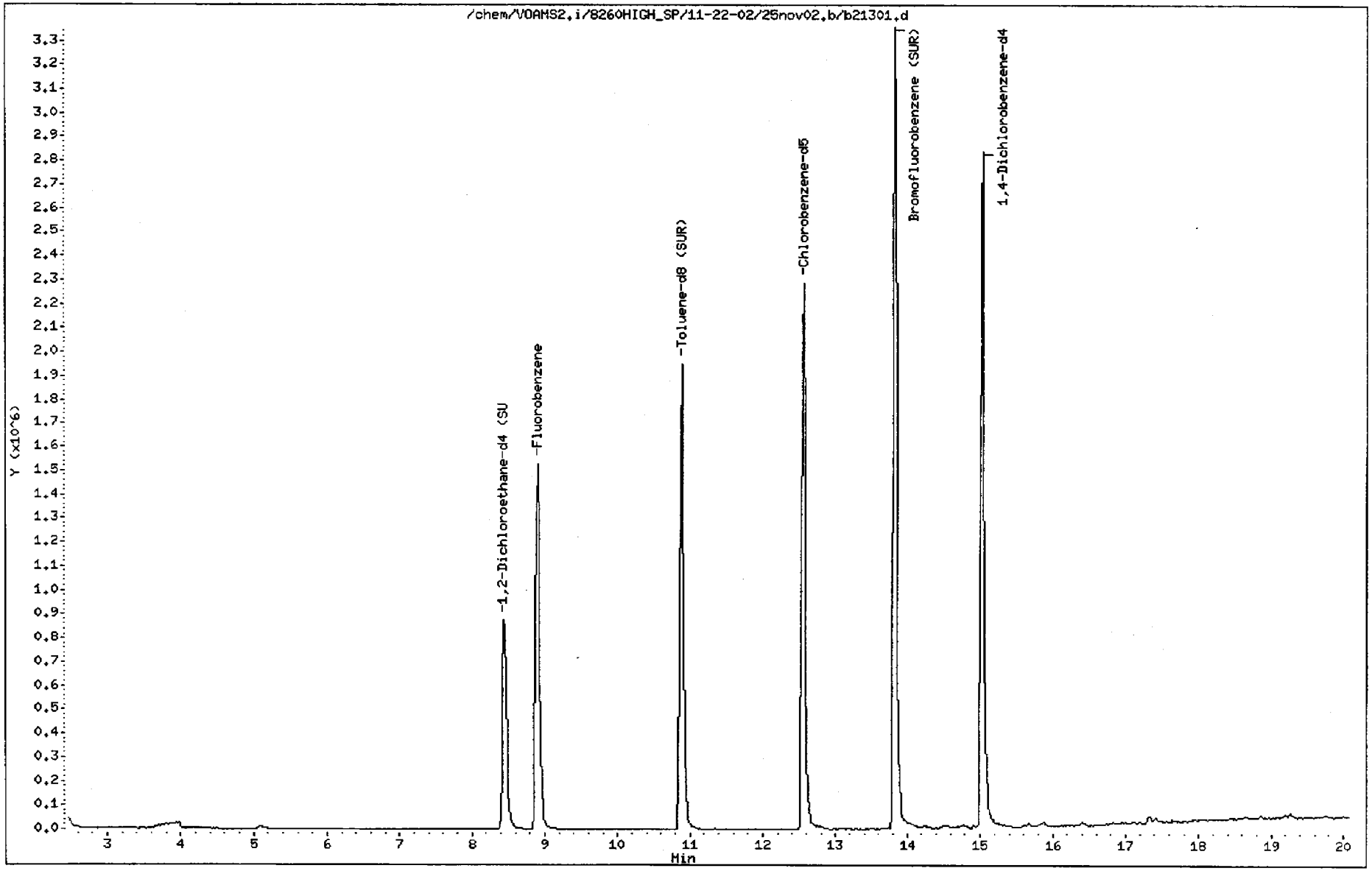
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.441	8.411	(0.948)	1429426	49.5612	7300
$ 37 Toluene-d8 (SUR)	98	10.884	10.854	(0.867)	2300042	53.2019	7800
* 32 Chlorobenzene-d5	117	12.556	12.527	(1.000)	2311794	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.830	13.800	(0.920)	1929219	45.9889	6800
* 19 Fluorobenzene	96	8.900	8.870	(1.000)	2483088	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.029	14.999	(1.000)	1583810	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21301.d
Date : 25-NOV-2002 17:19
Client ID: HA-02-08-0-6
Sample Info: 392317;50;;9.5;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column phase: DB624
Column diameter: 0.53



Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21302.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	660
Bromomethane	ND	660
Vinyl Chloride	ND	660
Chloroethane	ND	660
Methylene Chloride	ND	390
Acetone	ND	660
Carbon Disulfide	ND	660
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	660
trans-1,2-Dichloroethene	ND	660
cis-1,2-Dichloroethene	ND	660
Chloroform	ND	660
1,2-Dichloroethane	ND	260
2-Butanone	ND	660
1,1,1-Trichloroethane	ND	660
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	660
Trichloroethene	ND	130
Dibromochloromethane	ND	660
1,1,2-Trichloroethane	ND	390
Benzene	ND	130
trans-1,3-Dichloropropene	ND	660
Bromoform	ND	520
4-Methyl-2-Pentanone	ND	660
2-Hexanone	ND	660
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	660
Chlorobenzene	ND	660
Ethylbenzene	ND	520
Styrene	ND	660
Xylene (Total)	ND	660

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21302.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21302.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21302.d
Lab Smp Id: 392318 Client Smp ID: HA-02-04-0-6
Inj Date : 25-NOV-2002 17:49
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392318;50;;11.2;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 10
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.20000	Weight of sample extracted (g)
M	15.00000	% Moisture (not decanted)

J x 2

Cpnd Variable Local Compound Variable

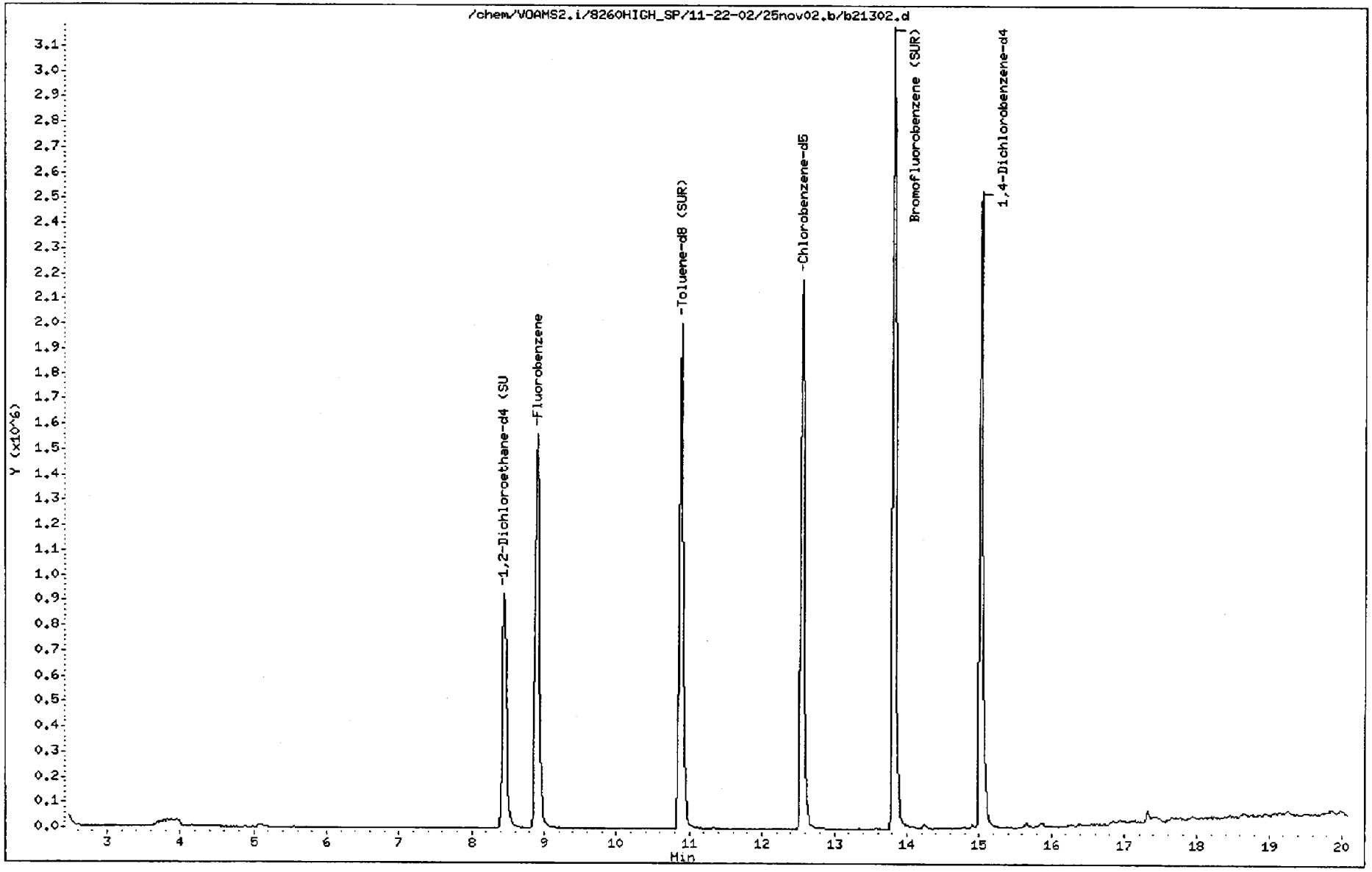
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.440	8.411	(0.948)	1518437	51.0540	6700
$ 37 Toluene-d8 (SUR)	98	10.883	10.854	(0.867)	2393164	56.4355	7400
* 32 Chlorobenzene-d5	117	12.556	12.527	(1.000)	2267568	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.814	13.800	(0.919)	1815580	47.5119	6200
* 19 Fluorobenzene	96	8.899	8.870	(1.000)	2560582	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.028	14.999	(1.000)	1442736	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21302.d
Date : 25-NOV-2002 17:49
Client ID: HA-02-04-0-6
Sample Info: 392318;50;;11.2;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53

Column phase: DB624



STL Edison

D092

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21303.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	740
Bromomethane	ND	740
Vinyl Chloride	ND	740
Chloroethane	ND	740
Methylene Chloride	ND	440
Acetone	ND	740
Carbon Disulfide	ND	740
1,1-Dichloroethene	ND	300
1,1-Dichloroethane	ND	740
trans-1,2-Dichloroethene	ND	740
cis-1,2-Dichloroethene	ND	740
Chloroform	ND	740
1,2-Dichloroethane	ND	300
2-Butanone	ND	740
1,1,1-Trichloroethane	ND	740
Carbon Tetrachloride	ND	300
Bromodichloromethane	ND	150
1,2-Dichloropropane	ND	150
cis-1,3-Dichloropropene	ND	740
Trichloroethene	ND	150
Dibromochloromethane	ND	740
1,1,2-Trichloroethane	ND	440
Benzene	ND	150
trans-1,3-Dichloropropene	ND	740
Bromoform	ND	590
4-Methyl-2-Pentanone	ND	740
2-Hexanone	ND	740
Tetrachloroethene	ND	150
1,1,2,2-Tetrachloroethane	ND	150
Toluene	ND	740
Chlorobenzene	ND	740
Ethylbenzene	ND	590
Styrene	ND	740
Xylene (Total)	ND	740

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21303.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21303.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21303.d
Lab Smp Id: 392319 Client Smp ID: HA-02-03-0-6
Inj Date : 25-NOV-2002 18:19
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392319;50;;9.6;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 11
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	9.60000	Weight of sample extracted (g)
M	12.20000	% Moisture (not decanted)

J x Z

Cpnd Variable Local Compound Variable

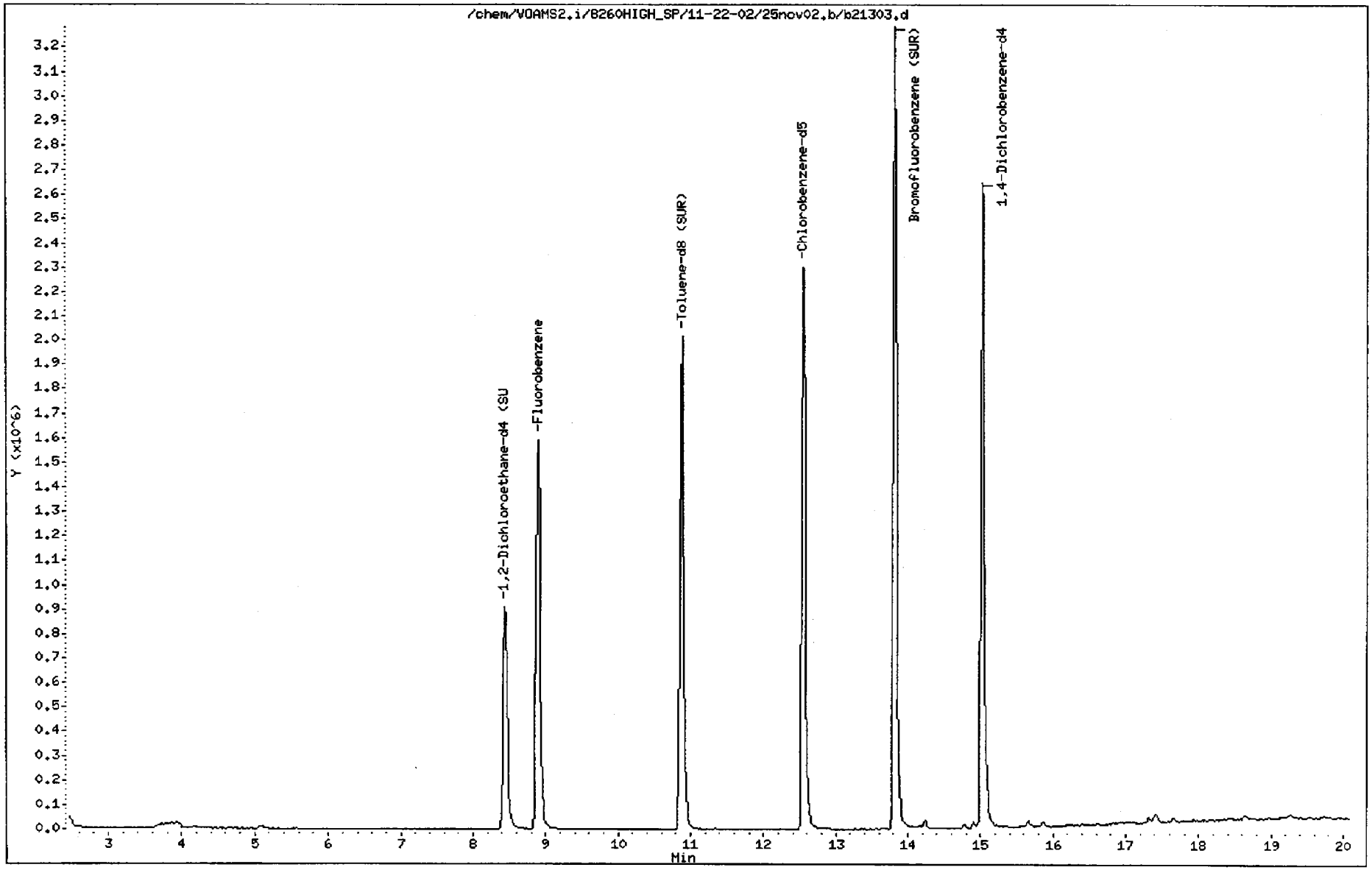
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.439	8.411	(0.948)	1498284	48.8363	7200
$ 37 Toluene-d8 (SUR)	98	10.881	10.854	(0.867)	2413469	53.2437	7900
* 32 Chlorobenzene-d5	117	12.554	12.527	(1.000)	2423896	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.812	13.800	(0.919)	1863903	47.1141	7000
* 19 Fluorobenzene	96	8.898	8.870	(1.000)	2641337	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.026	14.999	(1.000)	1493641	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21303.d
Date : 25-NOV-2002 18:19
Client ID: HA-02-03-0-6
Sample Info: 392319;50;;9.6;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53

Column phase: DB624



Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21304.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	650
Bromomethane	ND	650
Vinyl Chloride	ND	650
Chloroethane	ND	650
Methylene Chloride	ND	390
Acetone	ND	650
Carbon Disulfide	ND	650
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	650
trans-1,2-Dichloroethene	ND	650
cis-1,2-Dichloroethene	ND	650
Chloroform	ND	650
1,2-Dichloroethane	ND	260
2-Butanone	ND	650
1,1,1-Trichloroethane	ND	650
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	650
Trichloroethene	ND	130
Dibromochloromethane	ND	650
1,1,2-Trichloroethane	ND	390
Benzene	ND	130
trans-1,3-Dichloropropene	ND	650
Bromoform	ND	520
4-Methyl-2-Pentanone	ND	650
2-Hexanone	ND	650
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	650
Chlorobenzene	ND	650
Ethylbenzene	ND	520
Styrene	ND	650
Xylene (Total)	ND	650

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21304.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21304.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21304.d
Lab Smp Id: 392320 Client Smp ID: HA-02-02-0-6
Inj Date : 25-NOV-2002 18:49
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392320;50;;10.9;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 12
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

J x Z

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	10.90000	Weight of sample extracted (g)
M	11.50000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

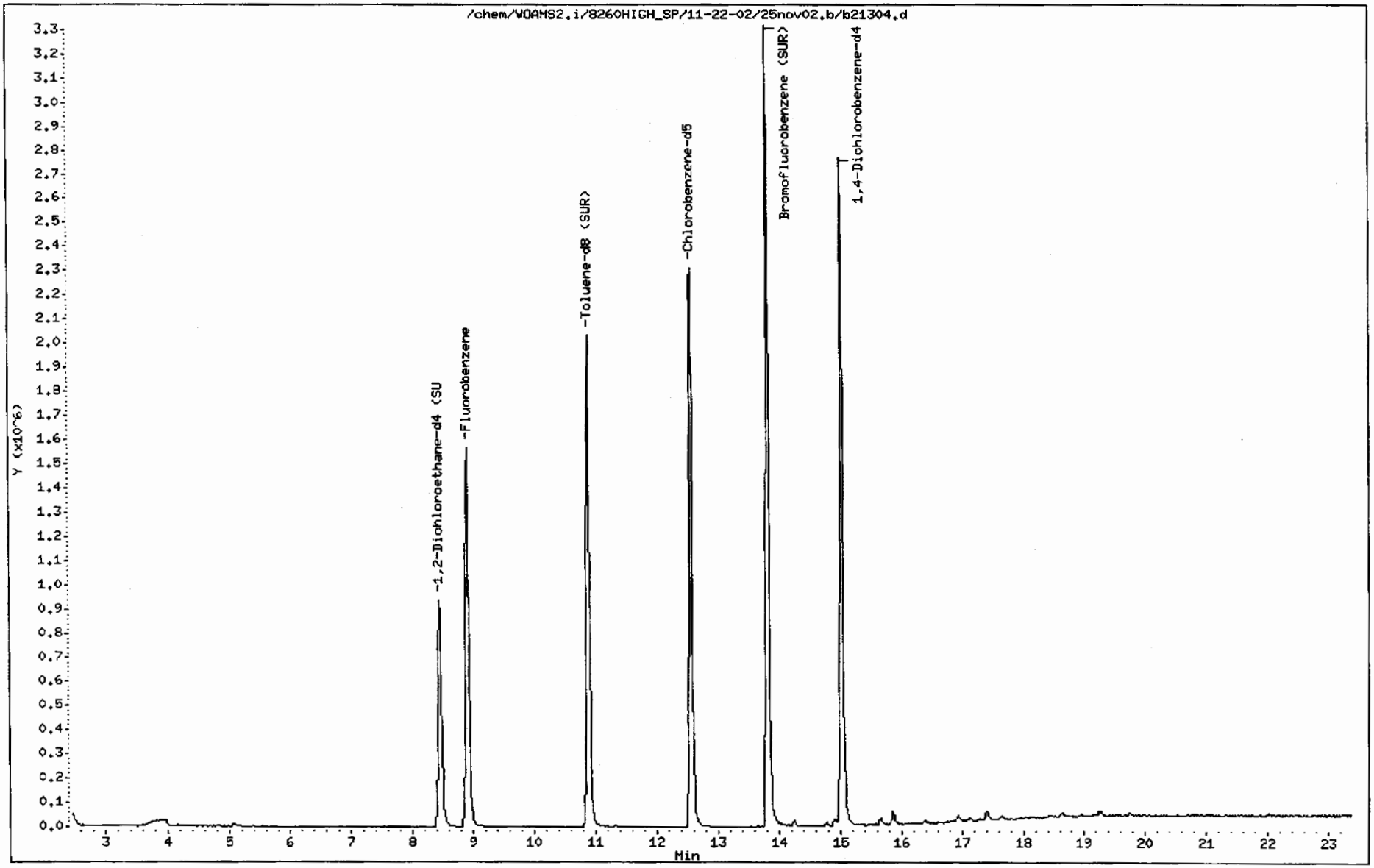
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.438	8.411	(0.948)	1527736	50.3312	6500
$ 37 Toluene-d8 (SUR)	98	10.880	10.854	(0.867)	2437118	53.7487	7000
* 32 Chlorobenzene-d5	117	12.553	12.527	(1.000)	2424653	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.812	13.800	(0.920)	1882402	47.2017	6100
* 19 Fluorobenzene	96	8.897	8.870	(1.000)	2613262	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.011	14.999	(1.000)	1505666	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21304.d
Date : 25-NOV-2002 18:49
Client ID: HA-02-02-0-6
Sample Info: 392320;50;;10.9;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53

Column phase: DB624



Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21305.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	590
Bromomethane	ND	590
Vinyl Chloride	ND	590
Chloroethane	ND	590
Methylene Chloride	ND	350
Acetone	ND	590
Carbon Disulfide	ND	590
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND	590
trans-1,2-Dichloroethene	ND	590
cis-1,2-Dichloroethene	ND	590
Chloroform	ND	590
1,2-Dichloroethane	ND	240
2-Butanone	ND	590
1,1,1-Trichloroethane	ND	590
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	590
Trichloroethene	ND	120
Dibromochloromethane	ND	590
1,1,2-Trichloroethane	ND	350
Benzene	ND	120
trans-1,3-Dichloropropene	ND	590
Bromoform	ND	470
4-Methyl-2-Pentanone	ND	590
2-Hexanone	ND	590
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	590
Chlorobenzene	ND	590
Ethylbenzene	ND	470
Styrene	ND	590
Xylene (Total)	ND	590

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21305.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21305.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21305.d
Lab Smp Id: 392321 Client Smp ID: HA-02-06-0-6
Inj Date : 25-NOV-2002 19:21
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392321;50;;11.9;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 13
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

J x Z

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.90000	Weight of sample extracted (g)
M	11.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

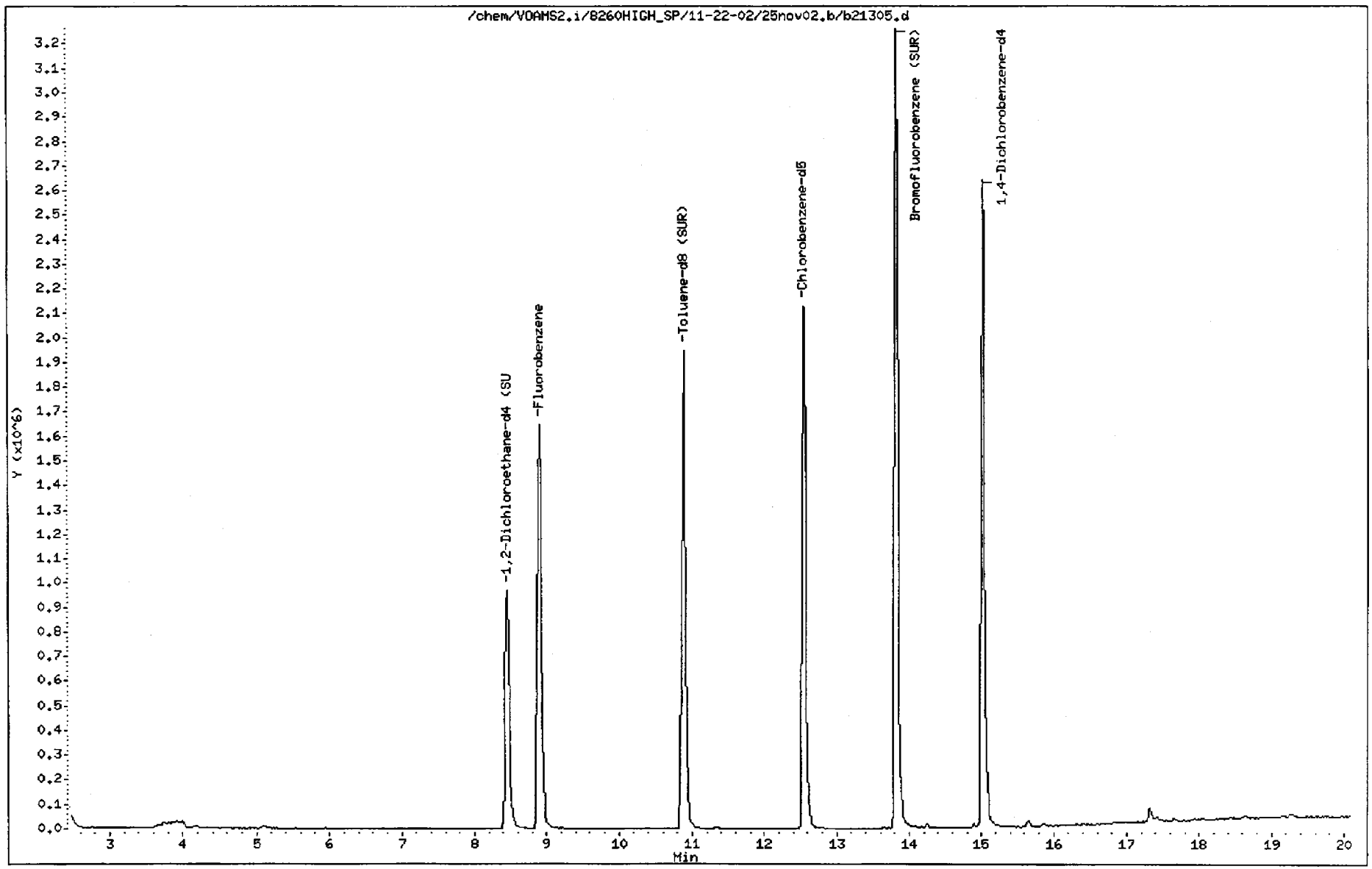
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.454	8.411	(0.950)	1559223	50.8394	6000
$ 37 Toluene-d8 (SUR)	98	10.881	10.854	(0.867)	2291385	54.3620	6400
* 32 Chlorobenzene-d5	117	12.554	12.527	(1.000)	2253946	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.812	13.800	(0.919)	1859050	48.3285	5700
* 19 Fluorobenzene	96	8.898	8.870	(1.000)	2640463	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.026	14.999	(1.000)	1452318	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21305.d
Date : 25-NOV-2002 19:21
Client ID: HA-02-06-0-6
Sample Info: 392321;50;;11.9;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53

Column phase: DB624



Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21306.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	710
Bromomethane	ND	710
Vinyl Chloride	ND	710
Chloroethane	ND	710
Methylene Chloride	ND	420
Acetone	ND	710
Carbon Disulfide	ND	710
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	710
trans-1,2-Dichloroethene	ND	710
cis-1,2-Dichloroethene	ND	710
Chloroform	ND	710
1,2-Dichloroethane	ND	280
2-Butanone	ND	710
1,1,1-Trichloroethane	ND	710
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	710
Trichloroethene	ND	140
Dibromochloromethane	ND	710
1,1,2-Trichloroethane	ND	420
Benzene	ND	140
trans-1,3-Dichloropropene	ND	710
Bromoform	ND	570
4-Methyl-2-Pentanone	ND	710
2-Hexanone	ND	710
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	710
Chlorobenzene	ND	710
Ethylbenzene	ND	570
Styrene	ND	710
Xylene (Total)	ND	710

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21306.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21306.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21306.d
Lab Smp Id: 392322 Client Smp ID: HA-02-05-0-6
Inj Date : 25-NOV-2002 19:50
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392322;50;;10.0;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 14
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

J x z

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	10.00000	Weight of sample extracted (g)
M	11.90000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

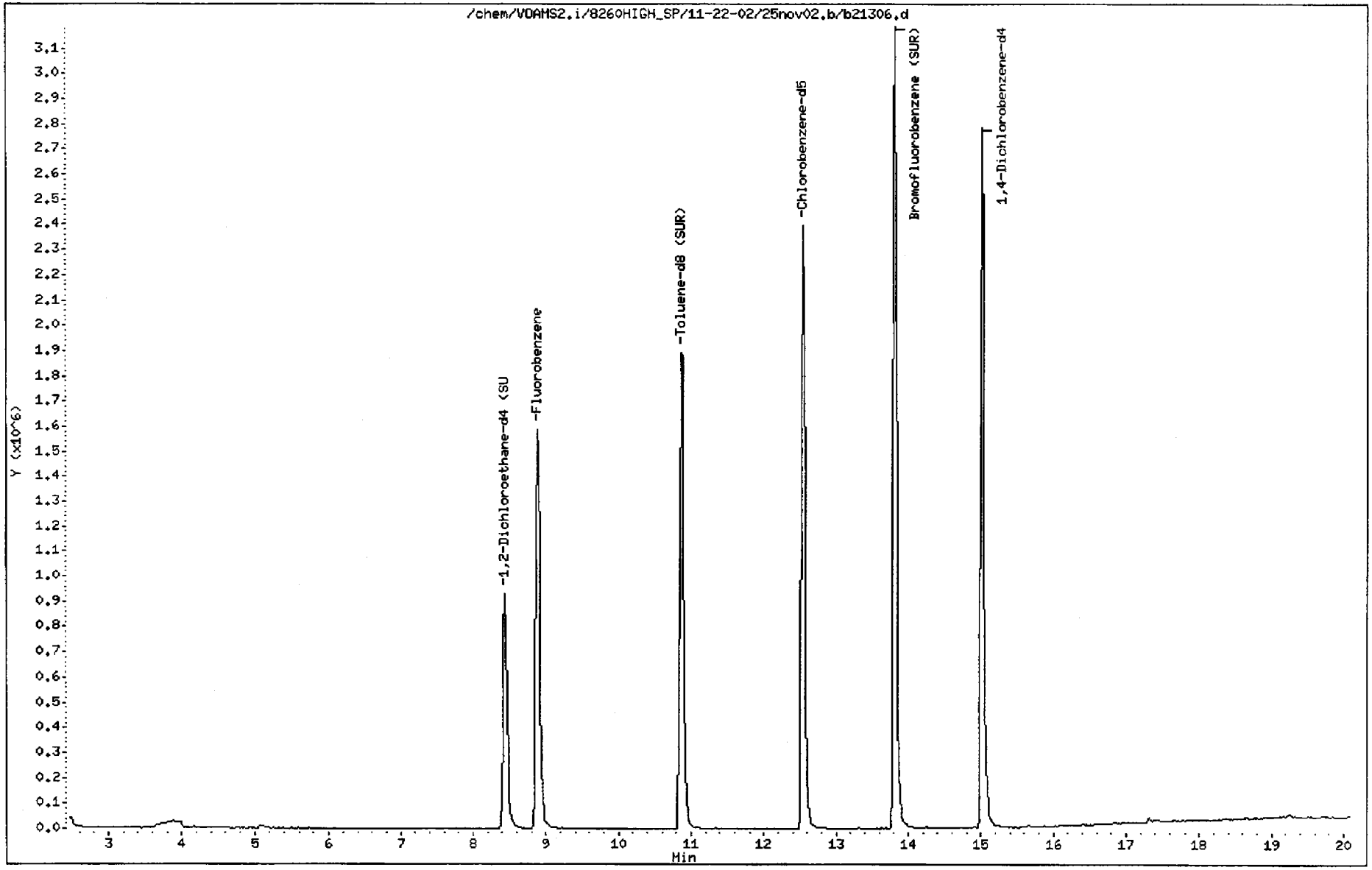
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.439	8.411	(0.950)	1475554	48.0128	6800
$ 37 Toluene-d8 (SUR)	98	10.867	10.854	(0.867)	2350341	52.6403	7500
* 32 Chlorobenzene-d5	117	12.539	12.527	(1.000)	2387553	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.812	13.800	(0.920)	1841049	46.9328	6600
* 19 Fluorobenzene	96	8.883	8.870	(1.000)	2645881	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.012	14.999	(1.000)	1481026	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21306.d
Date : 25-NOV-2002 19:50
Client ID: HA-02-05-0-6
Sample Info: 392322;50;;10.0;25

Column phase: DB624

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53



Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21307.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	590
Bromomethane	ND	590
Vinyl Chloride	ND	590
Chloroethane	ND	590
Methylene Chloride	ND	350
Acetone	ND	590
Carbon Disulfide	ND	590
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND	590
trans-1,2-Dichloroethene	ND	590
cis-1,2-Dichloroethene	ND	590
Chloroform	ND	590
1,2-Dichloroethane	ND	240
2-Butanone	ND	590
1,1,1-Trichloroethane	ND	590
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	590
Trichloroethene	ND	120
Dibromochloromethane	ND	590
1,1,2-Trichloroethane	ND	350
Benzene	ND	120
trans-1,3-Dichloropropene	ND	590
Bromoform	ND	470
4-Methyl-2-Pentanone	ND	590
2-Hexanone	ND	590
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	590
Chlorobenzene	ND	590
Ethylbenzene	ND	470
Styrene	ND	590
Xylene (Total)	ND	590

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21307.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21307.d
Report Date: 26-Nov-2002 12:35

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21307.d
Lab Smp Id: 392323 Client Smp ID: HA-02-07-0-6
Inj Date : 25-NOV-2002 20:21
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392323;50;;12.0;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 12:33 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 15
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	12.00000	Weight of sample extracted (g)
M	11.90000	% Moisture (not decanted)

J X Z

Cpnd Variable Local Compound Variable

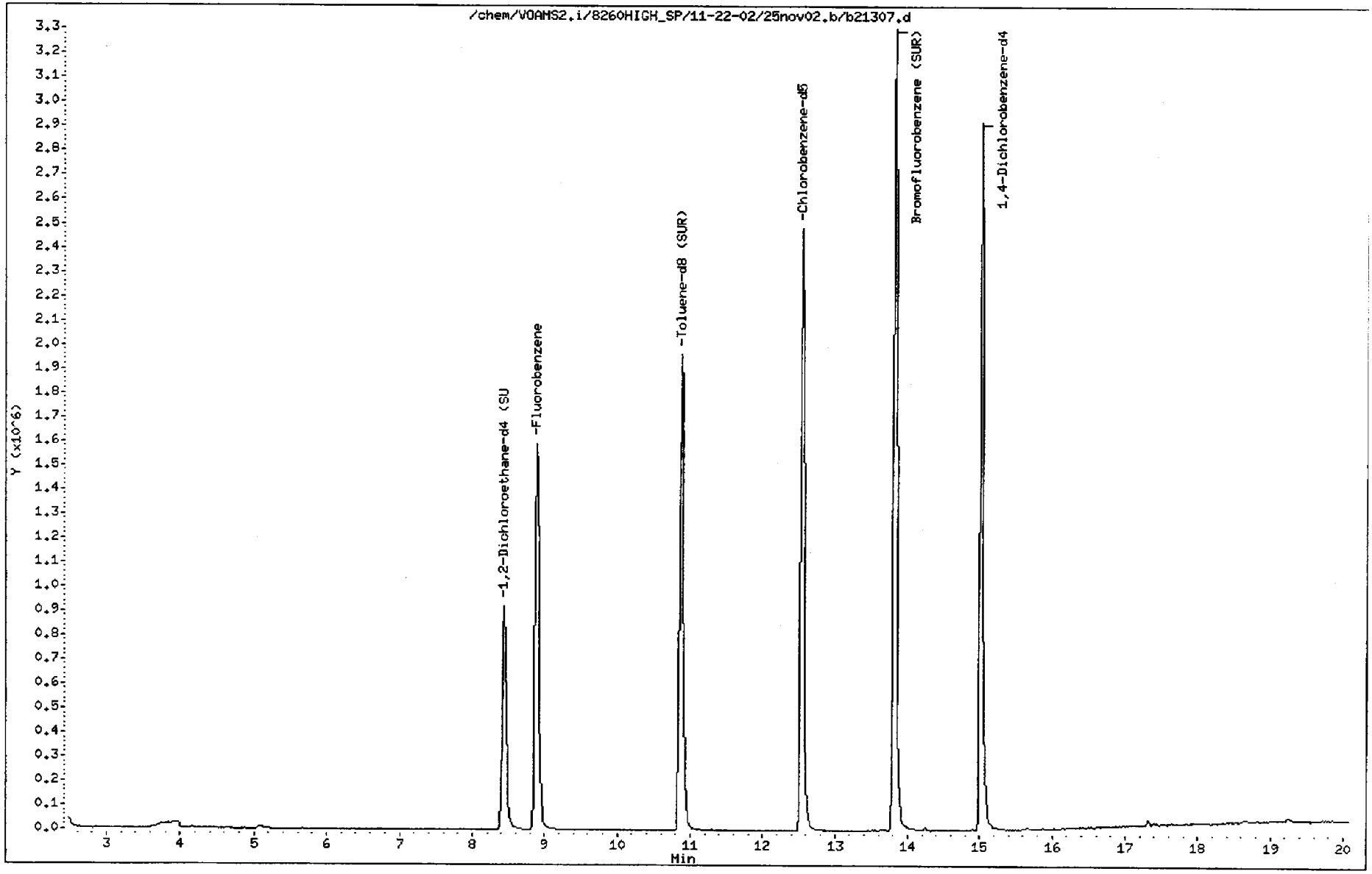
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.439	8.411	(0.950)	1463464	47.7879	5600
$ 37 Toluene-d8 (SUR)	98	10.867	10.854	(0.867)	2370741	52.1905	6200
* 32 Chlorobenzene-d5	117	12.540	12.527	(1.000)	2429030	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.813	13.800	(0.920)	1902361	47.1933	5600
* 19 Fluorobenzene	96	8.883	8.870	(1.000)	2636548	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	15.012	14.999	(1.000)	1521902	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21307.d
Date : 25-NOV-2002 20:21
Client ID: HA-02-07-0-6
Sample Info: 392323;50;;12.0;25

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53

Column phase: DB624



Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21324.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	640
Bromomethane	ND	640
Vinyl Chloride	ND	640
Chloroethane	ND	640
Methylene Chloride	ND	390
Acetone	ND	640
Carbon Disulfide	ND	640
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	640
trans-1,2-Dichloroethene	ND	640
cis-1,2-Dichloroethene	ND	640
Chloroform	ND	640
1,2-Dichloroethane	ND	260
2-Butanone	ND	640
1,1,1-Trichloroethane	ND	640
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	640
Trichloroethene	ND	130
Dibromochloromethane	ND	640
1,1,2-Trichloroethane	ND	390
Benzene	ND	130
trans-1,3-Dichloropropene	ND	640
Bromoform	ND	520
4-Methyl-2-Pentanone	ND	640
2-Hexanone	ND	640
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	640
Chlorobenzene	ND	640
Ethylbenzene	ND	520
Styrene	ND	640
Xylene (Total)	ND	640

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21324.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21324.d
Report Date: 27-Nov-2002 10:42

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21324.d
Lab Smp Id: 392324 Client Smp ID: HA-01-DUP
Inj Date : 26-NOV-2002 15:30
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392324;50;;11.0;25
Misc Info : D092;4816;;JXZ KUB
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 08:22 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 16
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.00000	Weight of sample extracted (g)
M	11.90000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

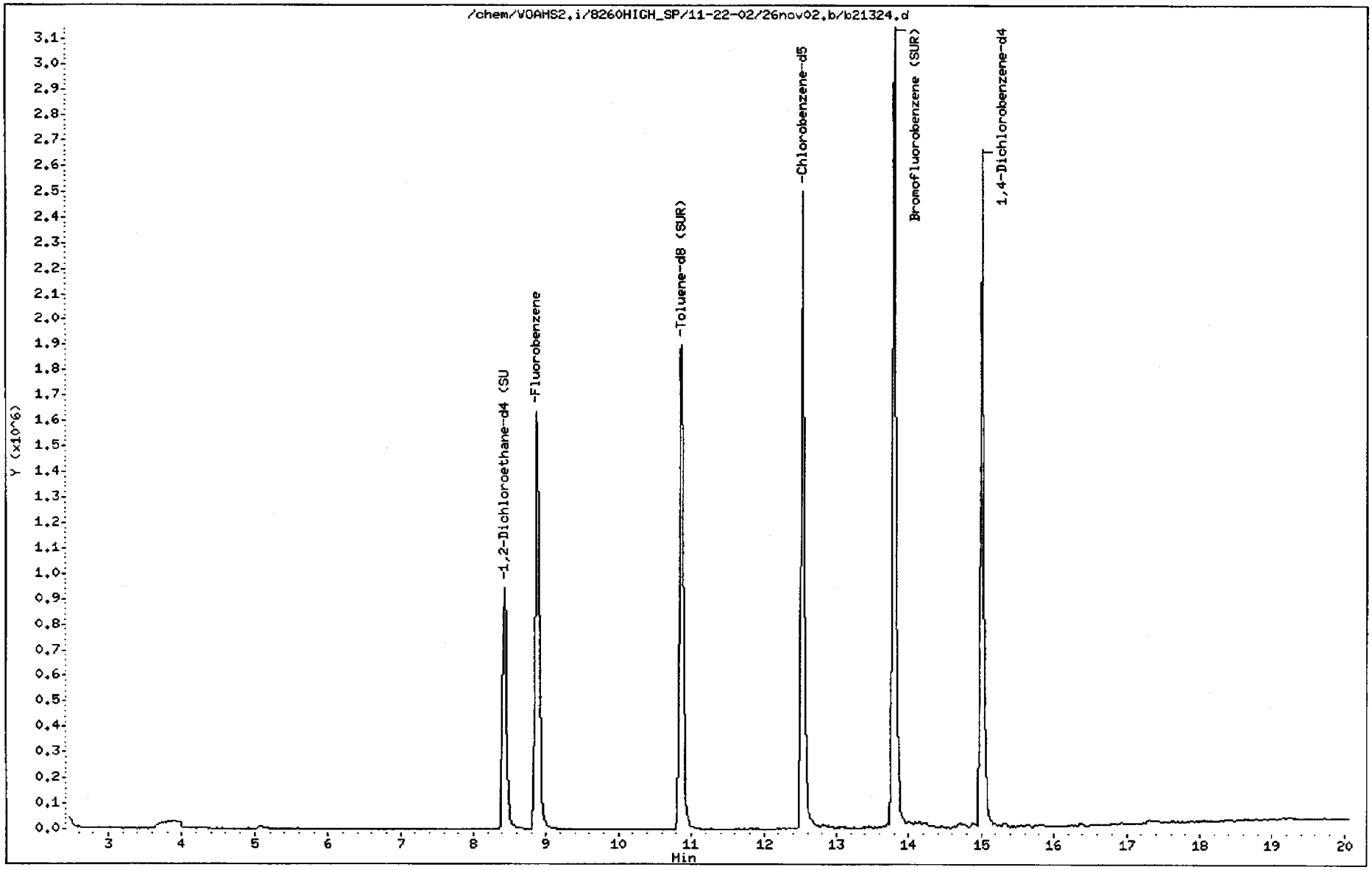
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.426	8.439	(0.950)	1520003	48.2377	6200
$ 37 Toluene-d8 (SUR)	98	10.869	10.882	(0.868)	2344896	51.5806	6600
* 32 Chlorobenzene-d5	117	12.527	12.540	(1.000)	2430958	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.800	13.813	(0.920)	1801973	49.0671	6300
* 19 Fluorobenzene	96	8.870	8.883	(1.000)	2712878	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	14.999	15.027	(1.000)	1386538	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21324.d
Date : 26-NOV-2002 15:30
Client ID: HA-01-DUP
Sample Info: 392324;50;;11.0;25

Column phase: DB624

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53



351

STL Edison

D092

Client ID: **Trip Blank**
Site: Earle NWS Closure

Lab Sample No: **392325**
Lab Job No: D092

Date Sampled: 11/19/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21325.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	380
Acetone	ND	620
Carbon Disulfide	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
2-Butanone	ND	620
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
Bromoform	ND	500
4-Methyl-2-Pentanone	ND	620
2-Hexanone	ND	620
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Styrene	ND	620
Xylene (Total)	ND	620

Client ID: **Trip_Blank**
Site: Earle NWS Closure

Lab Sample No: **392325**
Lab Job No: D092

Date Sampled: 11/19/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21325.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21325.d
Report Date: 27-Nov-2002 10:42

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21325.d
Lab Smp Id: 392325 Client Smp ID: Trip_Blank
Inj Date : 26-NOV-2002 16:00
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392325;50;;10.0;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 08:22 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 2
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: HSLVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

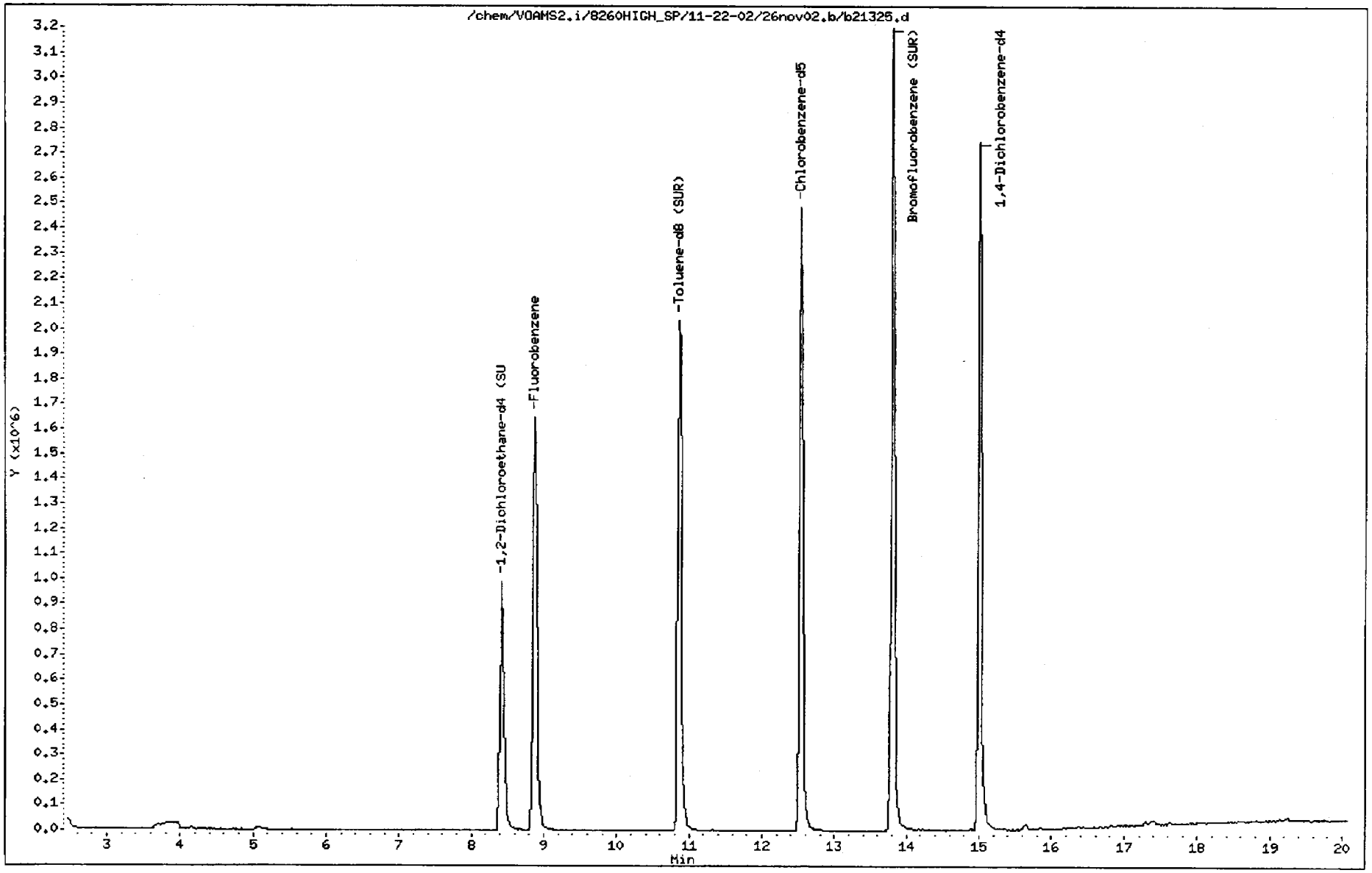
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.427	8.439	(0.950)	1580468	50.0913	6300
$ 37 Toluene-d8 (SUR)	98	10.854	10.882	(0.866)	2468275	54.5870	6800
* 32 Chlorobenzene-d5	117	12.527	12.540	(1.000)	2417937	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.800	13.813	(0.920)	1884141	49.0654	6100
* 19 Fluorobenzene	96	8.871	8.883	(1.000)	2716412	50.0000	
* 91 1,4-Dichlorobenzene-d4	152	14.999	15.027	(1.000)	1449815	50.0000	

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21325.d
Date : 26-NOV-2002 16:00
Client ID: Trip_Blank
Sample Info: 392325;50;;10.0;25

Column phase: DB624

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53



355

STL Edison

D092

Tuning Results Summary

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: B21240 BFB Injection Date: 11/22/02

Instrument ID: VOAMS2 BFB Injection Time: 1038

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.9
75	30.0 - 60.0% of mass 95	56.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	65.0
175	5.0 - 9.0% of mass 174	5.3 (8.1)1
176	95.0 - 101.0% of mass 174	62.3 (95.9)1
177	5.0 - 9.0% of mass 176	4.8 (7.7)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BSTD005	BSTD005	B21241	11/22/02	1103
02	BSTD020	BSTD020	B21243	11/22/02	1215
03	BSTD200	BSTD200	B21244	11/22/02	1245
04	BSTD100	BSTD100	B21245	11/22/02	1314
05	BSTD050	BSTD050	B21246	11/22/02	1344
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page 1 of 1

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21240.d

Date : 22-NOV-2002 10:38

Client ID:

Instrument: VOAMS2.i

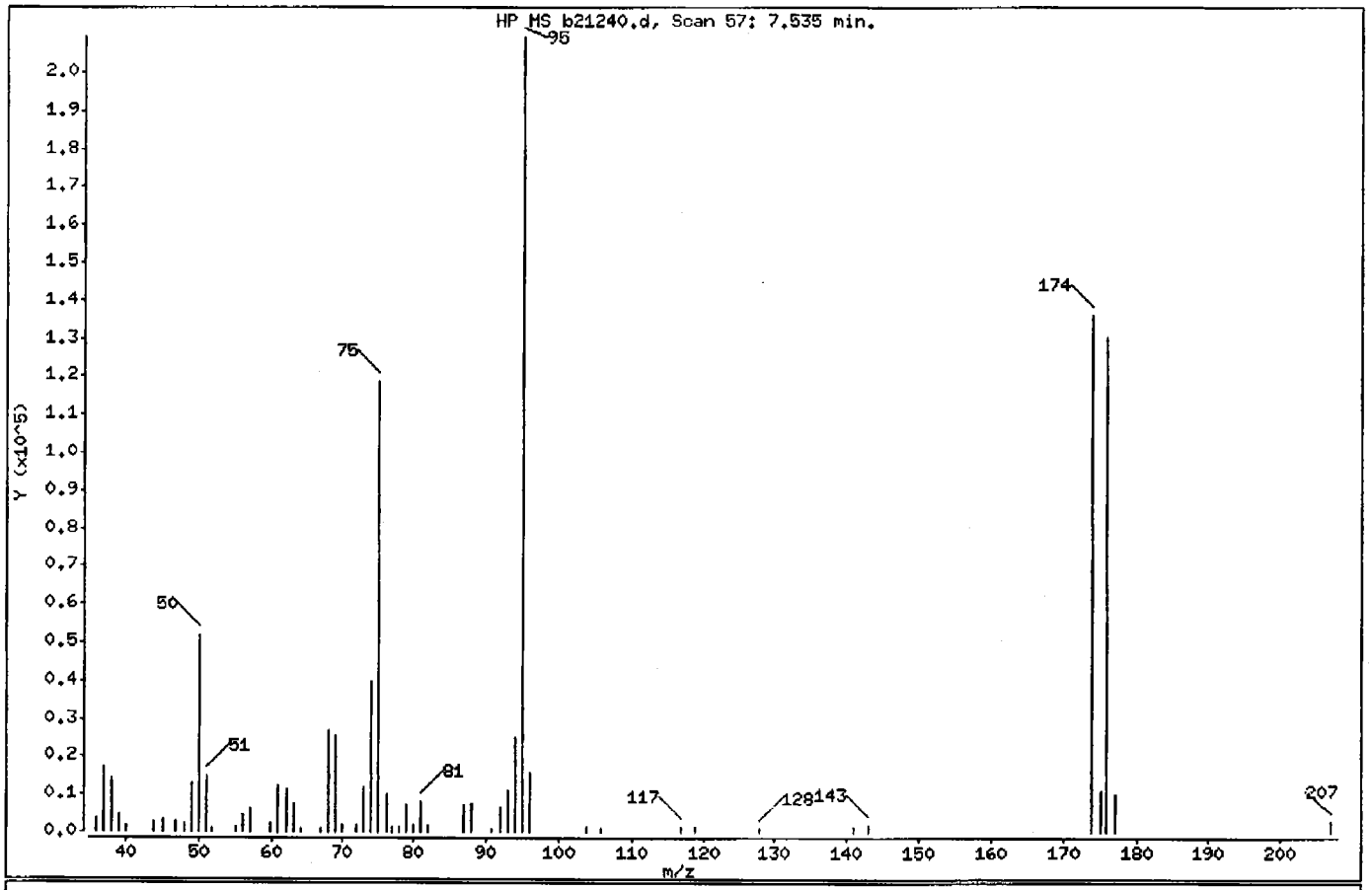
Sample Info: BBFB326 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.94
75	30.00 - 60.00% of mass 95	56.80
96	5.00 - 9.00% of mass 95	7.49
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	64.99
175	5.00 - 9.00% of mass 174	5.27 (8.11)
176	95.00 - 101.00% of mass 174	62.30 (95.86)
177	5.00 - 9.00% of mass 176	4.79 (7.69)

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21240.d

Date : 22-NOV-2002 10:38

Client ID:

Instrument: VOAMS2.i

Sample Info: BBFB326 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

Data File: b21240.d
Spectrum: HP MS b21240.d, Scan 57: 7.535 min.
Location of Maximum: 95.05
Number of points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3629	57.00	6228	76.95	1410	105.85	1017
37.00	17160	59.90	2276	77.95	1204	116.95	1484
38.00	14545	60.90	12680	78.85	7132	118.95	1209
39.00	4671	62.00	11605	79.95	1978	127.85	1098
40.00	1730	63.00	7684	80.85	7961	140.85	1264
43.90	3031	64.00	1093	81.95	1695	142.85	2107
45.00	3366	67.00	1078	86.95	7310	173.85	135936
46.90	2977	68.00	27024	87.95	7699	174.95	11022
48.00	2169	69.00	25552	90.85	1176	175.85	130312
49.00	12796	70.00	1750	91.95	6891	176.95	10020
50.00	52160	72.00	1728	92.95	10909	206.95	2783
51.00	15110	73.00	11953	94.05	24864		
51.90	1098	74.00	39944	95.05	209152		
55.00	1204	75.00	118808	96.05	15660		
56.00	4750	76.05	10115	103.85	1411		

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21240.d

Date : 22-NOV-2002 10:38

Client ID:

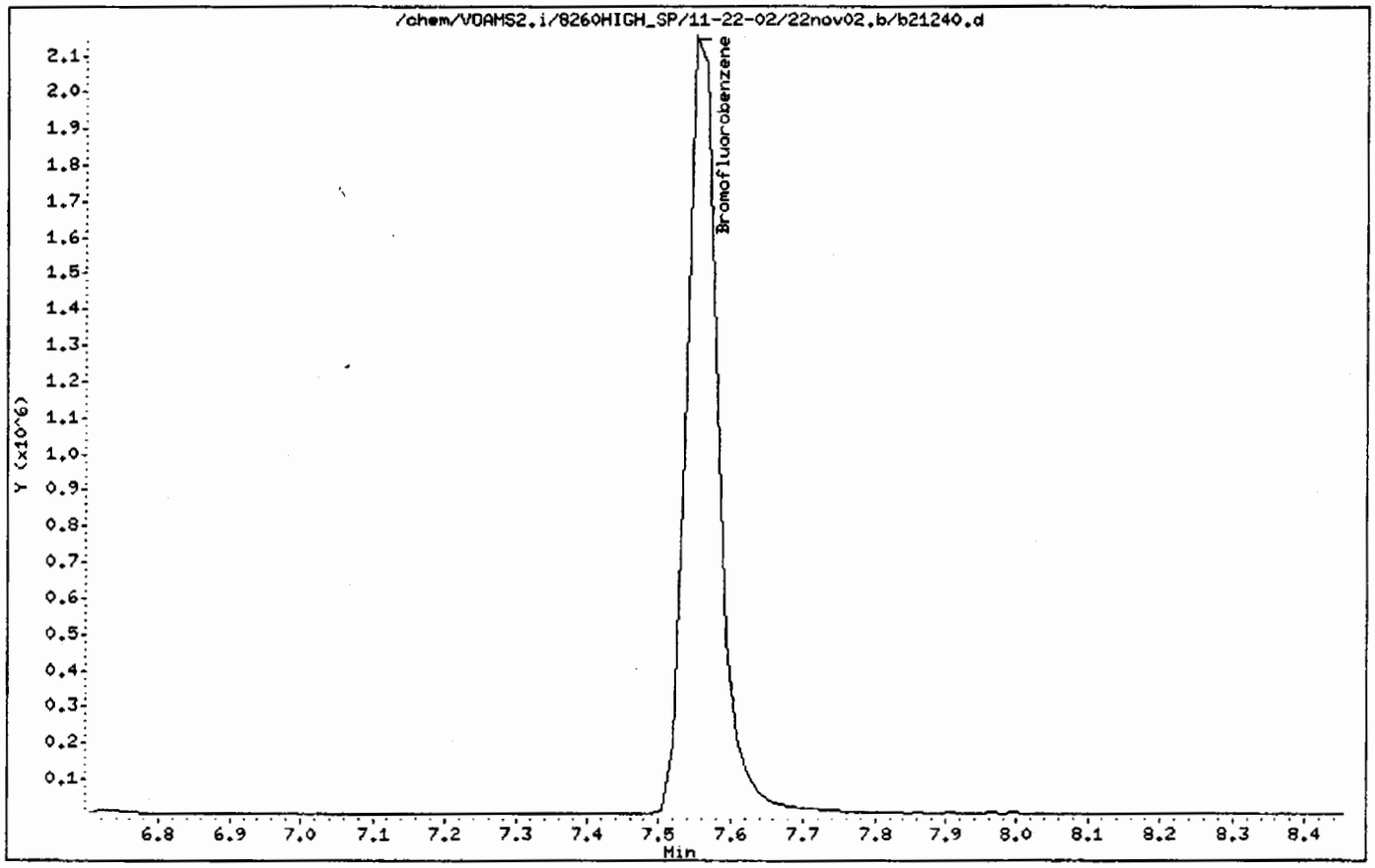
Instrument: VOAMS2.i

Sample Info: BBFB326 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: B21263

BFB Injection Date: 11/24/02

Instrument ID: VOAMS2

BFB Injection Time: 0921

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	53.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	91.7
175	5.0 - 9.0% of mass 174	7.6 (8.3)1
176	95.0 - 101.0% of mass 174	91.3 (99.6)1
177	5.0 - 9.0% of mass 176	7.1 (7.8)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BSTD328	BSTD328	B21266	11/24/02	1111
02	BV328	BV328	B21269	11/24/02	1301
03	HA-01-03-0-6	392306	B21277	11/24/02	1706
04	HA-01-04-0-6	392307	B21278	11/24/02	1735
05	HA-01-02-0-6	392308	B21279	11/24/02	1804
06	HA-01-12-0-6	392309	B21280	11/24/02	1833
07	HA-01-11-0-6	392310	B21281	11/24/02	1902
08	HA-01-10-0-6	392311	B21282	11/24/02	1931
09	HA-01-10-0-6	392311MS	B21283	11/24/02	2000
10	HA-01-10-0-6	392311MSD	B21284	11/24/02	2029
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page 1 of 1

Data File: /chem/VOAHS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21263.d

Date : 24-NOV-2002 09:21

Client ID:

Instrument: VOAHS2.i

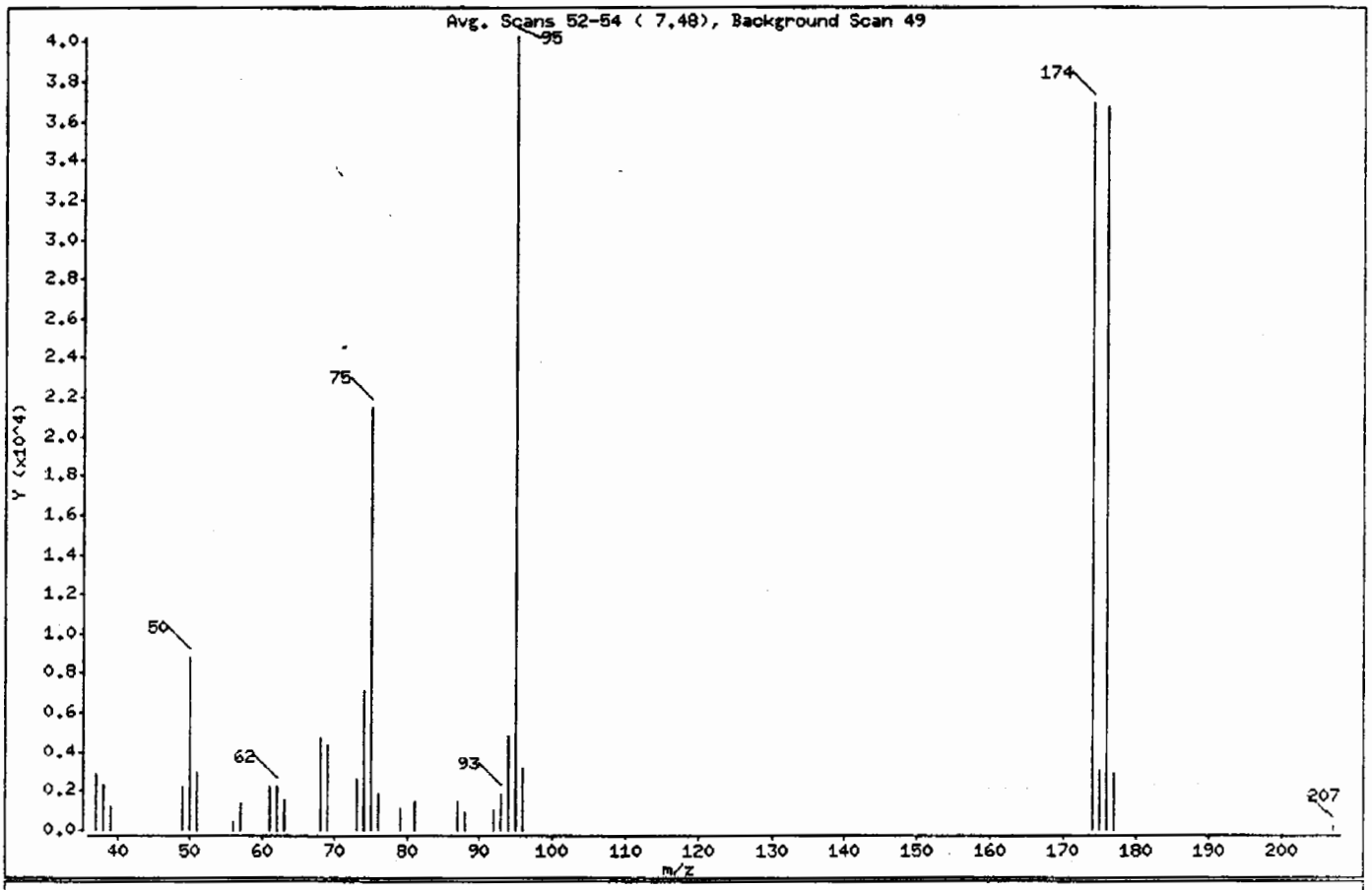
Sample Info: BBFB328 50ng

Operator: VOAHS 5

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.89
75	30.00 - 60.00% of mass 95	53.24
96	5.00 - 9.00% of mass 95	7.89
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	91.69
175	5.00 - 9.00% of mass 174	7.61 (8.30)
176	95.00 - 101.00% of mass 174	91.29 (99.57)
177	5.00 - 9.00% of mass 176	7.14 (7.82)

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21263.d

Date : 24-NOV-2002 09:21

Client ID:

Instrument: VOAMS2.i

Sample Info: BBFB328 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

Data File: b21263.d

Spectrum: Avg. Scans 52-54 (7.48), Background Scan 49

Location of Maximum: 95.00

Number of points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	2904	61.00	2224	76.00	1870	95.00	40224
38.00	2312	62.00	2242	79.00	1090	96.00	3173
39.00	1239	63.00	1557	81.00	1485	174.00	36880
49.00	2222	68.00	4761	87.00	1498	175.00	3062
50.00	8806	69.00	4355	88.00	915	176.00	36720
51.00	2984	73.00	2578	92.00	1016	177.00	2872
56.00	418	74.00	7109	93.00	1822	207.00	216
57.00	1394	75.00	21416	94.00	4831		

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21263.d

Date : 24-NOV-2002 09:21

Client ID:

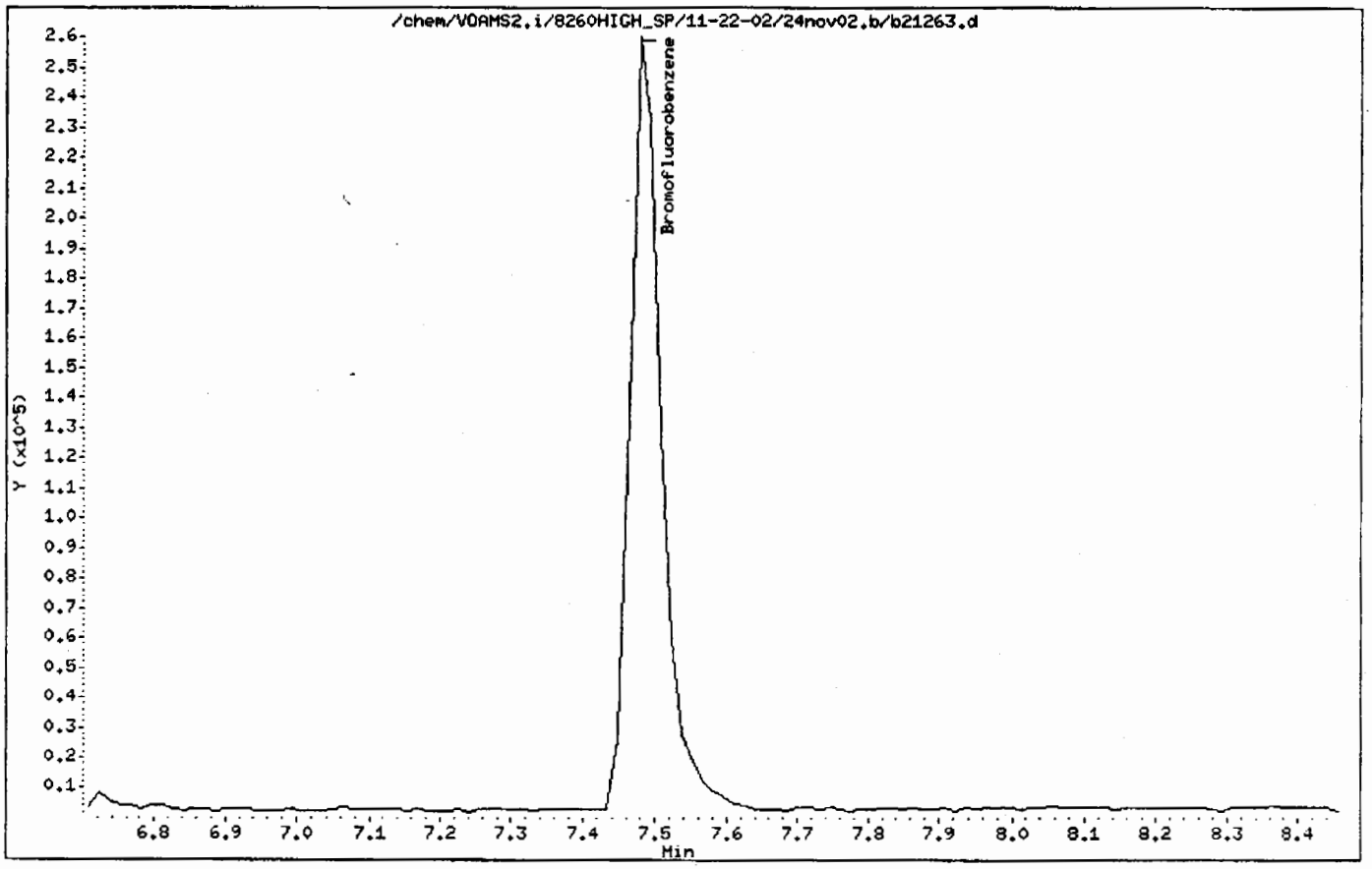
Instrument: VOAMS2.i

Sample Info: BBFB328 50ng

Operator: VOAHS 5

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: B21285 BFB Injection Date: 11/25/02

Instrument ID: VOAMS2 BFB Injection Time: 0828

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.8
75	30.0 - 60.0% of mass 95	53.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	98.3
175	5.0 - 9.0% of mass 174	7.5 (7.6)1
176	95.0 - 101.0% of mass 174	98.6 (100.3)1
177	5.0 - 9.0% of mass 176	7.3 (7.4)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BSTD329	BSTD329	B21286	11/25/02	0851
02	BV329	BV329	B21289	11/25/02	1045
03	HA-01-09-0-6	392312	B21296	11/25/02	1449
04	HA-01-08-0-6	392313	B21297	11/25/02	1519
05	HA-01-07-0-6	392314	B21298	11/25/02	1549
06	HA-01-06-0-6	392315	B21299	11/25/02	1619
07	HA-01-05-0-6	392316	B21300	11/25/02	1649
08	HA-02-08-0-6	392317	B21301	11/25/02	1719
09	HA-02-04-0-6	392318	B21302	11/25/02	1749
10	HA-02-03-0-6	392319	B21303	11/25/02	1819
11	HA-02-02-0-6	392320	B21304	11/25/02	1849
12	HA-02-06-0-6	392321	B21305	11/25/02	1921
13	HA-02-05-0-6	392322	B21306	11/25/02	1950
14	HA-02-07-0-6	392323	B21307	11/25/02	2021
15					
16					
17					
18					
19					
20					
21					
22					

page 1 of 1

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21285.d

Date : 25-NOV-2002 08:28

Client ID:

Instrument: VOAMS2.i

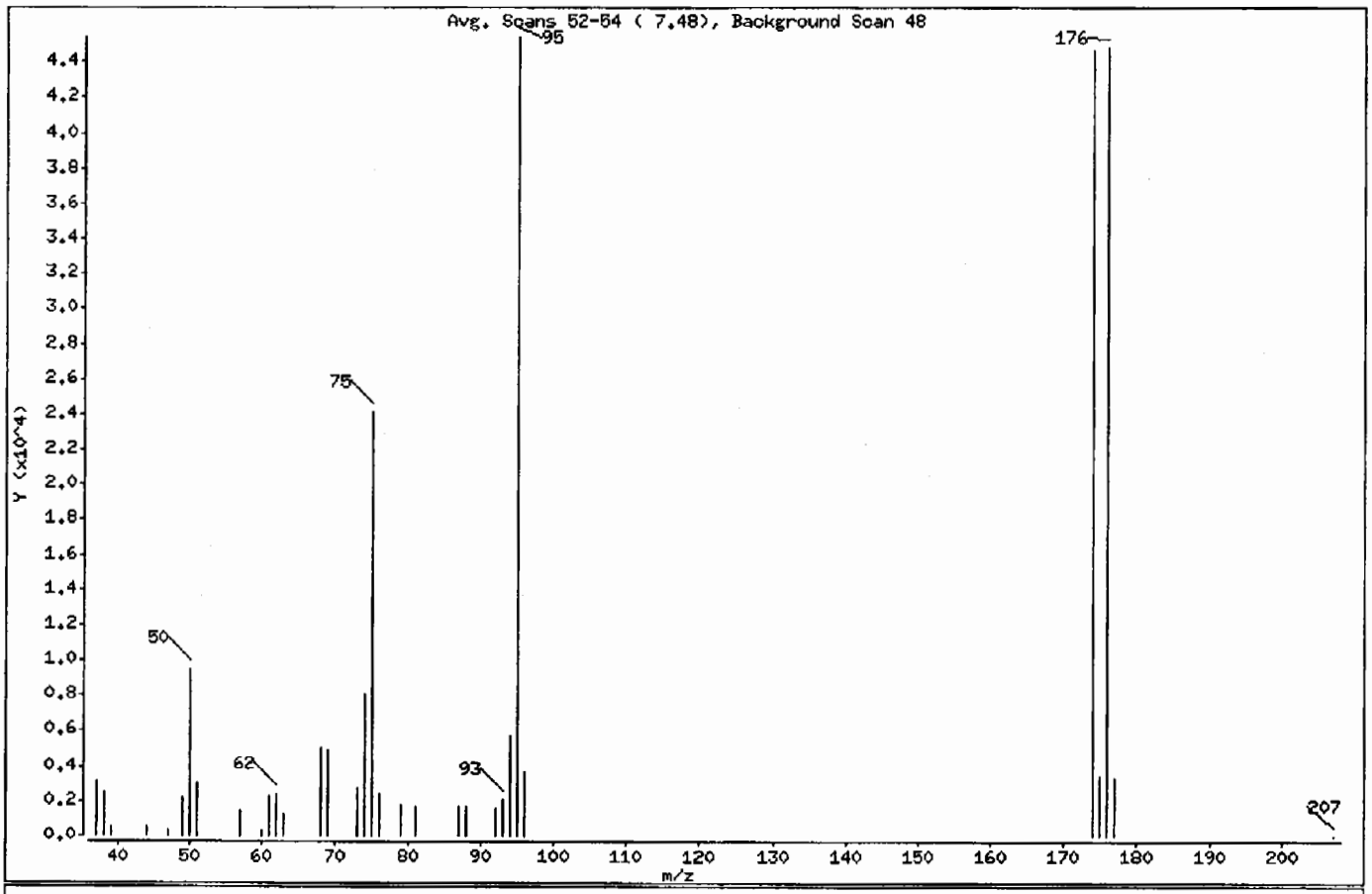
Sample Info: BBFB329 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.82
75	30.00 - 60.00% of mass 95	53.02
96	5.00 - 9.00% of mass 95	8.06
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	98.33
175	5.00 - 9.00% of mass 174	7.50 (7.63)
176	95.00 - 101.00% of mass 174	98.63 (100.30)
177	5.00 - 9.00% of mass 176	7.27 (7.37)

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21285.d

Date : 25-NOV-2002 08:28

Client ID:

Instrument: VOAMS2.i

Sample Info: BBFB329 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

Data File: b21285.d
Spectrum: Avg, Scans 52-54 (7.48), Background Scan 48
Location of Maximum: 95.00
Number of points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	3102	60.00	337	76.00	2378	96.00	3658
38.00	2546	61.00	2268	79.00	1739	174.00	44624
39.00	539	62.00	2374	81.00	1720	175.00	3403
44.00	561	63.00	1211	87.00	1677	176.00	44760
47.00	351	68.00	5022	88.00	1639	177.00	3301
49.00	2170	69.00	4897	92.00	1551	207.00	8
50.00	9451	73.00	2739	93.00	2125		
51.00	3076	74.00	8058	94.00	5788		
57.00	1476	75.00	24064	95.00	45384		

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21285.d

Date : 25-NOV-2002 08:28

Client ID:

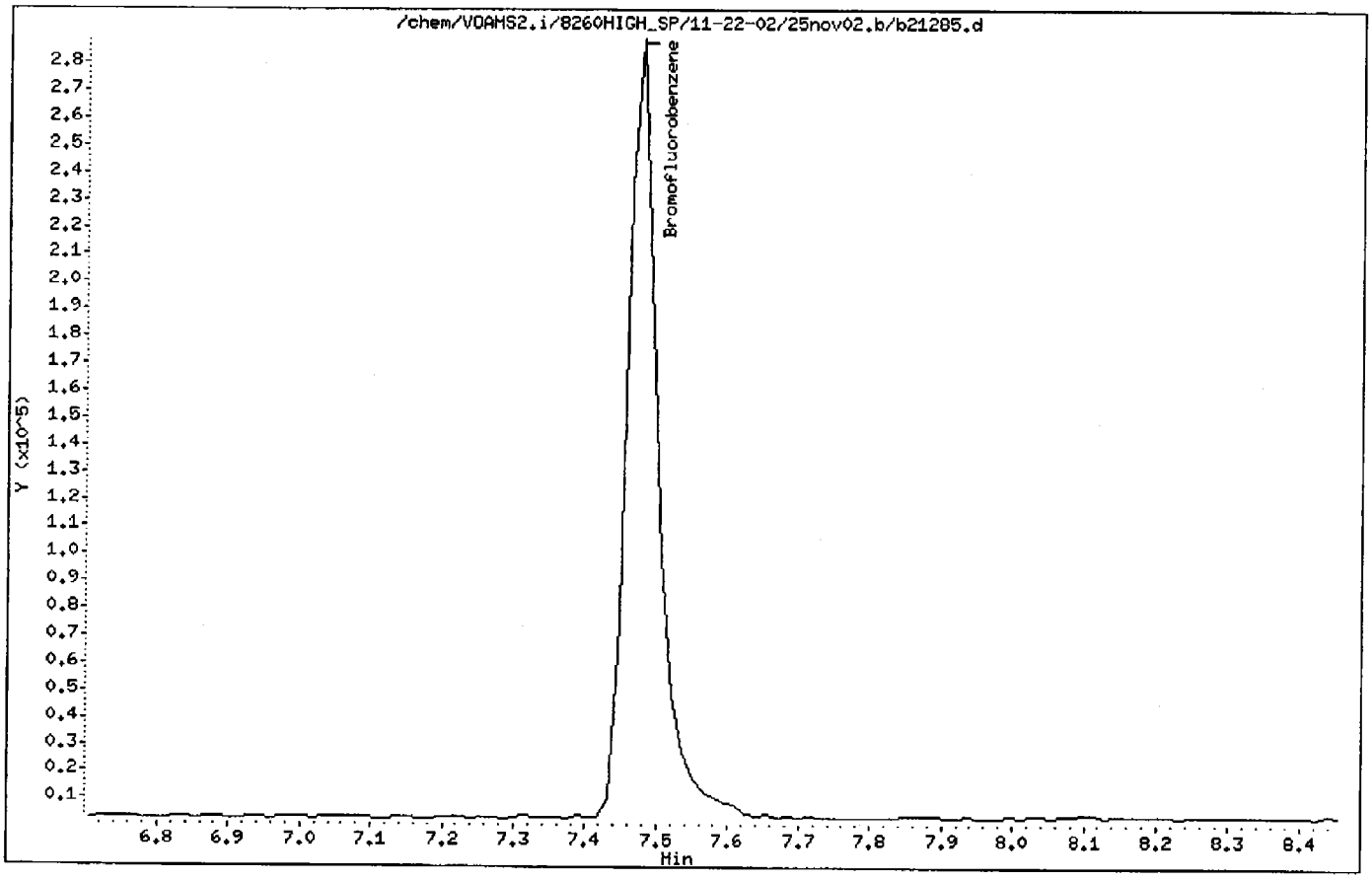
Instrument: VOAMS2.i

Sample Info: BBFB329 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: B21310 BFB Injection Date: 11/26/02

Instrument ID: VOAMS2 BFB Injection Time: 0752

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.9
75	30.0 - 60.0% of mass 95	54.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	94.6
175	5.0 - 9.0% of mass 174	8.2 (8.6)1
176	95.0 - 101.0% of mass 174	94.7 (100.1)1
177	5.0 - 9.0% of mass 176	7.0 (7.4)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BSTD330	BSTD330	B21311	11/26/02	0819
02	BV330M	BV330M	B21322	11/26/02	1431
03	HA-01-DUP	392324	B21324	11/26/02	1530
04	TRIP_BLANK	392325	B21325	11/26/02	1600
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page 1 of 1

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21310.d

Date : 26-NOV-2002 07:52

Client ID:

Instrument: VOAMS2.i

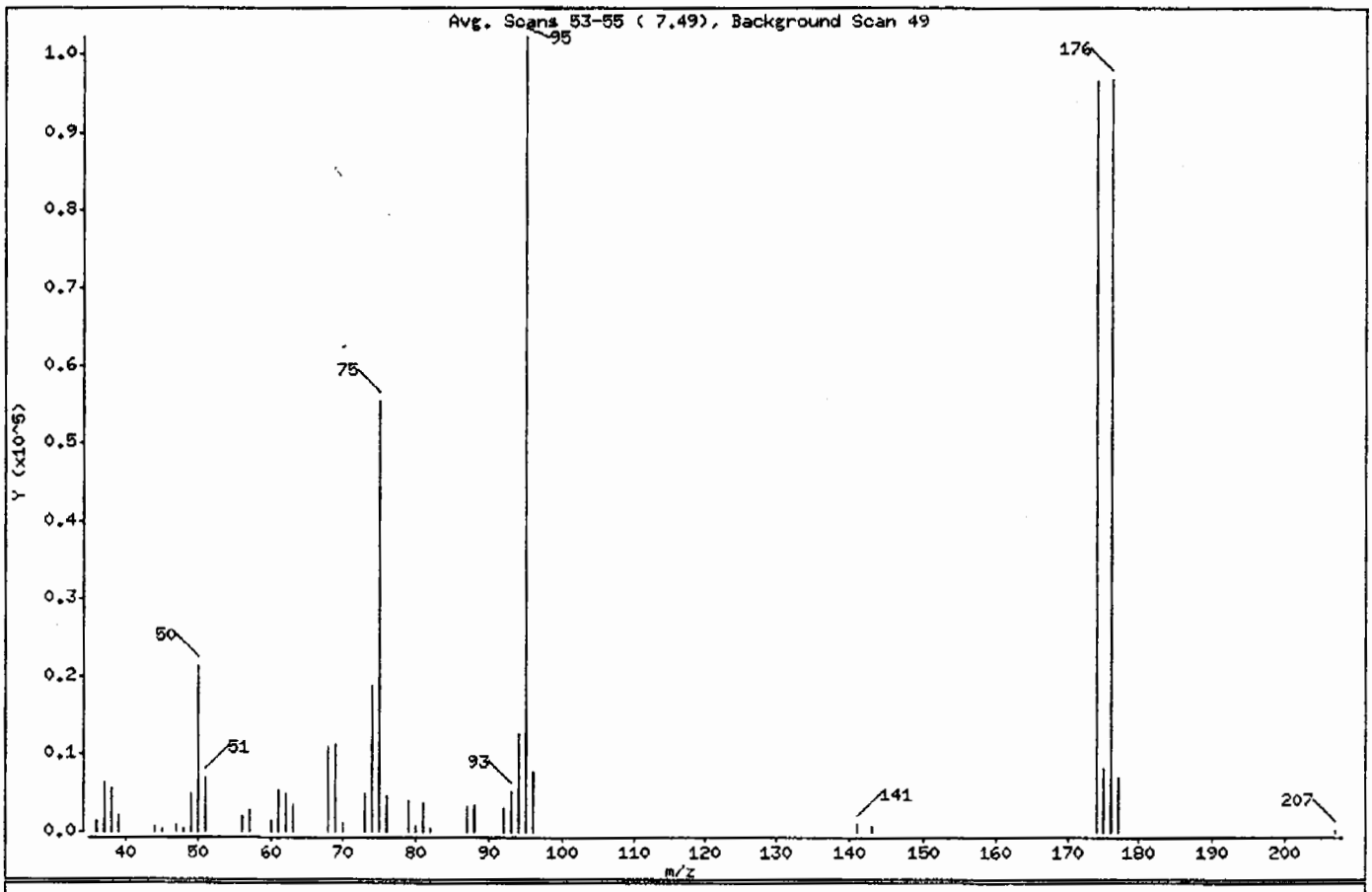
Sample Info: BBFB330 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.87
75	30.00 - 60.00% of mass 95	54.36
96	5.00 - 9.00% of mass 95	7.54
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	94.57
175	5.00 - 9.00% of mass 174	8.15 (8.62)
176	95.00 - 101.00% of mass 174	94.66 (100.09)
177	5.00 - 9.00% of mass 176	6.98 (7.38)

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21310.d

Date : 26-NOV-2002 07:52

Client ID:

Instrument: VOAMS2.i

Sample Info: BBFB330 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

Data File: b21310.d
Spectrum: Avg. Scans 53-55 (7.49), Background Scan 49
Location of Maximum: 95.00
Number of points: 42

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1496	56.00	2118	75.00	55544	95.00	102184
37.00	6378	57.00	2822	76.00	4789	96.00	7706
38.00	5746	60.00	1380	79.00	3908	141.00	872
39.00	2206	61.00	5512	80.00	808	143.00	734
44.00	800	62.00	4825	81.00	3825	174.00	96640
45.00	380	63.00	3508	82.00	379	175.00	8329
47.00	940	68.00	11095	87.00	3294	176.00	96728
48.00	410	69.00	11279	88.00	3461	177.00	7137
49.00	4912	70.00	1165	92.00	3078	207.00	228
50.00	21328	73.00	5005	93.00	5086		
51.00	7087	74.00	18712	94.00	12703		

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21310.d

Date : 26-NOV-2002 07:52

Client ID:

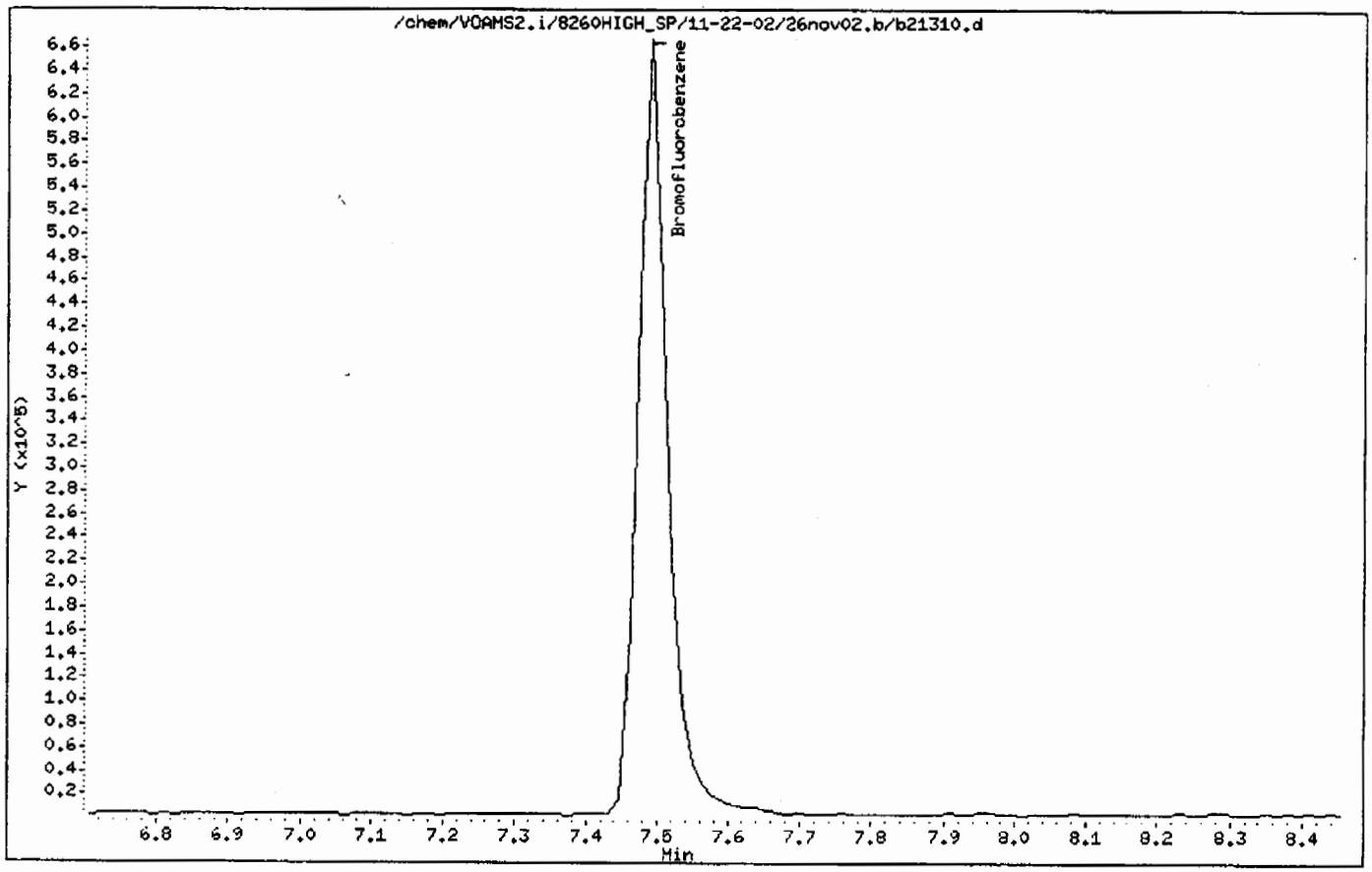
Instrument: VOAMS2.i

Sample Info: BBFB330 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53



Method Blank Results Summary

LAB SAMPLE NO.

BV328

VOLATILE METHOD BLANK SUMMARY

Matrix: SOIL

Date Analyzed: 11/24/02

Level: HIGH

Time Analyzed: 1301

Lab File ID: B21269

Heated Purge (Y/N) N

Instrument ID: VOAMS2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	HA-01-03-0-6	392306	B21277	1706
02	HA-01-04-0-6	392307	B21278	1735
03	HA-01-02-0-6	392308	B21279	1804
04	HA-01-12-0-6	392309	B21280	1833
05	HA-01-11-0-6	392310	B21281	1902
06	HA-01-10-0-6	392311	B21282	1931
07	HA-01-10-0-6MS	392311MS	B21283	2000
08	HA-01-10-0-6MSD	392311MSD	B21284	2029
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

Client ID: **BV328**
Site:

Lab Sample No: **BV328**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21269.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	ND	300
Acetone	ND	500
Carbon Disulfide	ND	500
Trichlorofluoromethane	ND	500
1,1-Dichloroethene	ND	200
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
1,2-Dichloroethane	ND	200
2-Butanone	ND	500
1,1,1-Trichloroethane	ND	500
Carbon Tetrachloride	ND	200
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	100
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	300
Benzene	ND	100
trans-1,3-Dichloropropene	ND	500
2-Chloroethyl Vinyl Ether	ND	500
Bromoform	ND	400
4-Methyl-2-Pentanone	ND	500
2-Hexanone	ND	500
Tetrachloroethene	ND	100
1,1,2,2-Tetrachloroethane	ND	100
Toluene	ND	500
Chlorobenzene	ND	500
Ethylbenzene	ND	400

Client ID: **BV328**
Site:

Lab Sample No: **BV328**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21269.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Styrene	ND	500
Xylene (Total)	ND	500
Ethyl Ether	ND	500
Acrolein	ND	10000
Freon TF	ND	500
Isopropanol	ND	50000
Acetonitrile	ND	10000
TBA	ND	10000
Acrylonitrile	ND	5000
MTBE	ND	500
Hexane	ND	500
DIPE	ND	500
Ethyl Acetate	ND	1000
Vinyl Acetate	ND	500
Tetrahydrofuran	ND	500
Cyclohexane	ND	500
Isobutanol	ND	50000
Isopropyl Acetate	ND	1000
n-Heptane	ND	500
n-Butanol	ND	50000
Propyl Acetate	ND	1000
Butyl Acetate	ND	1000
1,2-Dibromoethane	ND	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	ND	500
1,2-Dichlorobenzene	ND	500
Naphthalene	ND	500
Methylnaphthalene (total)	ND	500
Dimethylnaphthalene (total)	ND	500
Dichlorodifluoromethane	ND	500
1,1-Dichloropropene	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
1,4-Dioxane	ND	100000

Client ID: **BV328**
Site:

Lab Sample No: **BV328**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21269.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Methyl Acrylate	ND	500
1,1,1,2-Tetrachloroethane	ND	500
1,2,3-Trichlorobenzene	ND	500
1,2,3-Trichloropropane	ND	500
1,2,4-Trimethylbenzene	ND	500
1,2-Dibromo-3-chloropropane	ND	500
1,3,5-Trimethylbenzene	ND	500
1,3-Dichloropropane	ND	500
2,2-Dichloropropane	ND	500
2-Chlorotoluene	ND	500
4-Chlorotoluene	ND	500
Bromobenzene	ND	500
Bromochloromethane	ND	500
Dibromomethane	ND	500
Isopropylbenzene	ND	500
n-Butylbenzene	ND	500
n-Propylbenzene	ND	500
p-Isopropyltoluene	ND	500
sec-Butylbenzene	ND	500
tert-Butylbenzene	ND	500
Allyl chloride	ND	500
Benzyl chloride	ND	500
Epichlorohydrin	ND	10000
Isoprene	ND	500
Methyl methacrylate	ND	500
n-Pentane	ND	500
Allyl alcohol	ND	100000
2-Octanol	ND	1000
2-Octanone	ND	500
Ethyl Acrylate	ND	500
Butyl Acrylate	ND	500
Butyl Methacrylate	ND	500
Ethyl methacrylate	ND	500
Ethanol	ND	50000

Client ID: **BV328**
Site:

Lab Sample No: **BV328**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21269.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Methyl Acetate	ND	500
Methyl Cyclohexane	ND	500
Cyclohexanone	ND	10000
p-Ethyltoluene	ND	500
1,4-Diethylbenzene	ND	500
1,2,4,5-Tetramethylbenzene	ND	500
Propylene Oxide	ND	5000
Camphene (total)	ND	2000
Camphor	ND	2000
Amyl Acetate	ND	1000
2-Methylnaphthalene	ND	500
1-Chlorohexane	ND	500
Chlorotrifluoromethane	ND	500
Chlorodifluoromethane	ND	500
tert-Amylmethyl Ether	ND	500
Iodomethane	ND	500
trans-1,4-Dichloro-2-butene	ND	500
1,3,5-Trichlorobenzene	ND	500

Client ID: **BV328**
Site:

Lab Sample No: **BV328**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/24/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21269.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21269.d
Report Date: 24-Nov-2002 15:15

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21269.d
Lab Smp Id: BV328
Inj Date : 24-NOV-2002 13:01
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BV328
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 11 QC Sample: BLANK
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

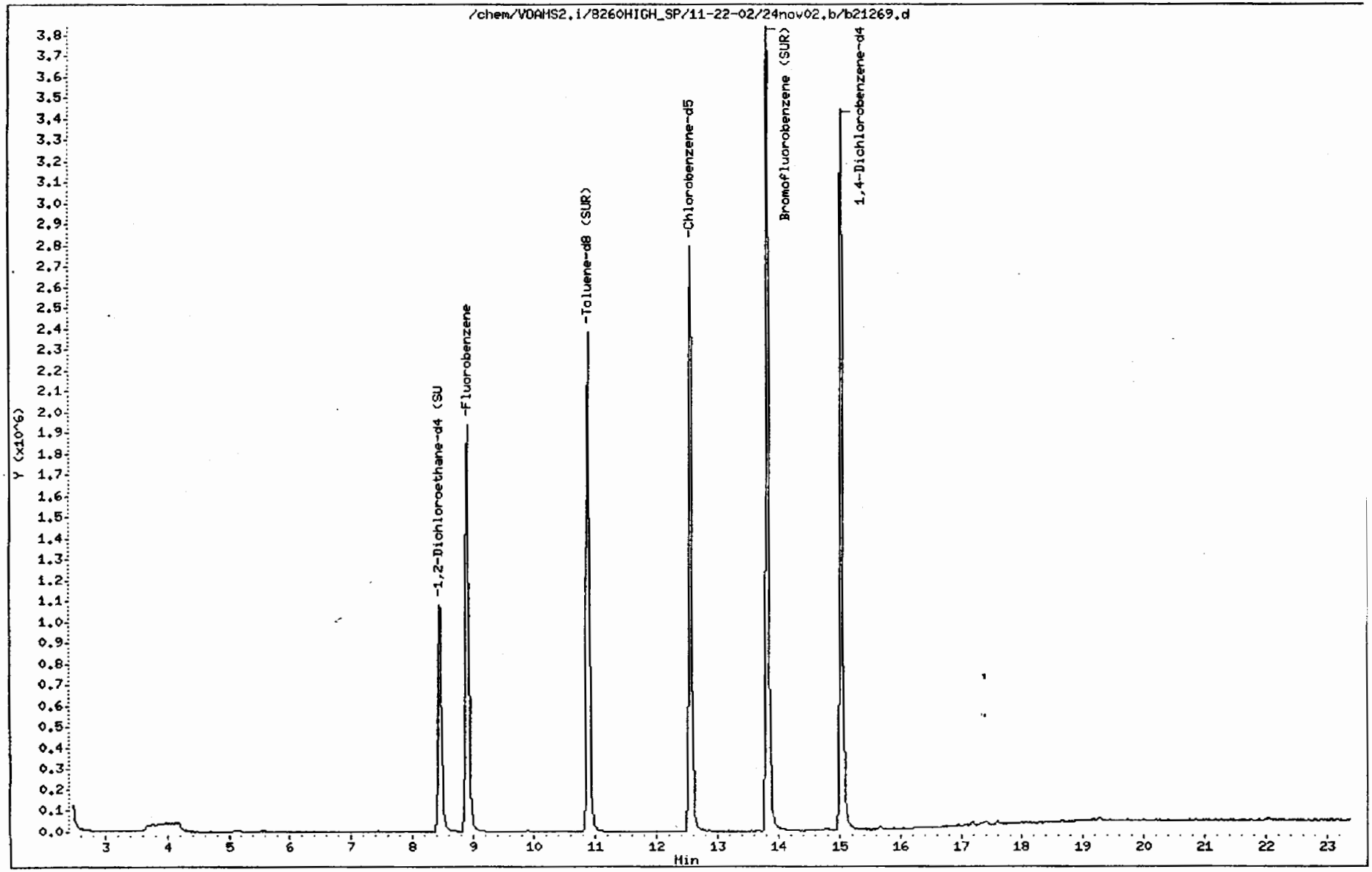
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
S 16 1,2-Dichloroethane-d4 (SUR)	65	8.439	8.426	(0.948)	1757760	46.4082	4600
* 19 Fluorobenzene	96	8.898	8.885	(1.000)	3260895	50.0000	
S 37 Toluene-d8 (SUR)	98	10.882	10.869	(0.867)	2657352	49.8979	5000
* 32 Chlorobenzene-d5	117	12.555	12.542	(1.000)	2847788	50.0000	
S 41 Bromofluorobenzene (SUR)	174	13.828	13.815	(0.920)	2298625	46.3383	4600
* 91 1,4-Dichlorobenzene-d4	152	15.027	15.014	(1.000)	1872847	50.0000	

Data File: /chem/VOAHS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21269.d
Date : 24-NOV-2002 13:01
Client ID:
Sample Info: BV328

Column phase: DB624

Instrument: VOAHS2.i

Operator: VOAHS 4
Column diameter: 0.53



LAB SAMPLE NO.

BV329

VOLATILE METHOD BLANK SUMMARY

Matrix: SOIL

Date Analyzed: 11/25/02

Level: HIGH

Time Analyzed: 1045

Lab File ID: B21289

Heated Purge (Y/N) N

Instrument ID: VOAMS2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	HA-01-09-0-6	392312	B21296	1449
02	HA-01-08-0-6	392313	B21297	1519
03	HA-01-07-0-6	392314	B21298	1549
04	HA-01-06-0-6	392315	B21299	1619
05	HA-01-05-0-6	392316	B21300	1649
06	HA-02-08-0-6	392317	B21301	1719
07	HA-02-04-0-6	392318	B21302	1749
08	HA-02-03-0-6	392319	B21303	1819
09	HA-02-02-0-6	392320	B21304	1849
10	HA-02-06-0-6	392321	B21305	1921
11	HA-02-05-0-6	392322	B21306	1950
12	HA-02-07-0-6	392323	B21307	2021
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

Client ID: **BV329**
Site:

Lab Sample No: **BV329**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21289.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	ND	300
Acetone	ND	500
Carbon Disulfide	ND	500
Trichlorofluoromethane	ND	500
1,1-Dichloroethene	ND	200
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
1,2-Dichloroethane	ND	200
2-Butanone	ND	500
1,1,1-Trichloroethane	ND	500
Carbon Tetrachloride	ND	200
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	100
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	300
Benzene	ND	100
trans-1,3-Dichloropropene	ND	500
2-Chloroethyl Vinyl Ether	ND	500
Bromoform	ND	400
4-Methyl-2-Pentanone	ND	500
2-Hexanone	ND	500
Tetrachloroethene	ND	100
1,1,2,2-Tetrachloroethane	ND	100
Toluene	ND	500
Chlorobenzene	ND	500
Ethylbenzene	ND	400

Client ID: **BV329**
Site:

Lab Sample No: **BV329**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21289.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Styrene	ND	500
Xylene (Total)	ND	500
Ethyl Ether	ND	500
Acrolein	ND	10000
Freon TF	ND	500
Isopropanol	ND	50000
Acetonitrile	ND	10000
TBA	ND	10000
Acrylonitrile	ND	5000
MTBE	ND	500
Hexane	ND	500
DIPE	ND	500
Ethyl Acetate	ND	1000
Vinyl Acetate	ND	500
Tetrahydrofuran	ND	500
Cyclohexane	ND	500
Isobutanol	ND	50000
Isopropyl Acetate	ND	1000
n-Heptane	ND	500
n-Butanol	ND	50000
Propyl Acetate	ND	1000
Butyl Acetate	ND	1000
1,2-Dibromoethane	ND	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	ND	500
1,2-Dichlorobenzene	ND	500
Naphthalene	ND	500
Methylnaphthalene (total)	ND	500
Dimethylnaphthalene (total)	ND	500
Dichlorodifluoromethane	ND	500
1,1-Dichloropropene	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
1,4-Dioxane	ND	100000

Client ID: **BV329**
Site:

Lab Sample No: **BV329**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21289.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Methyl Acrylate	ND	500
1,1,1,2-Tetrachloroethane	ND	500
1,2,3-Trichlorobenzene	ND	500
1,2,3-Trichloropropane	ND	500
1,2,4-Trimethylbenzene	ND	500
1,2-Dibromo-3-chloropropane	ND	500
1,3,5-Trimethylbenzene	ND	500
1,3-Dichloropropane	ND	500
2,2-Dichloropropane	ND	500
2-Chlorotoluene	ND	500
4-Chlorotoluene	ND	500
Bromobenzene	ND	500
Bromochloromethane	ND	500
Dibromomethane	ND	500
Isopropylbenzene	ND	500
n-Butylbenzene	ND	500
n-Propylbenzene	ND	500
p-Isopropyltoluene	ND	500
sec-Butylbenzene	ND	500
tert-Butylbenzene	ND	500
Allyl chloride	ND	500
Benzyl chloride	ND	500
Epichlorohydrin	ND	10000
Isoprene	ND	500
Methyl methacrylate	ND	500
n-Pentane	ND	500
Allyl alcohol	ND	100000
2-Octanol	ND	1000
2-Octanone	ND	500
Ethyl Acrylate	ND	500
Butyl Acrylate	ND	500
Butyl Methacrylate	ND	500
Ethyl methacrylate	ND	500
Ethanol	ND	50000

Client ID: **BV329**
Site:

Lab Sample No: **BV329**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21289.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Methyl Acetate	ND	500
Methyl Cyclohexane	ND	500
Cyclohexanone	ND	10000
p-Ethyltoluene	ND	500
1,4-Diethylbenzene	ND	500
1,2,4,5-Tetramethylbenzene	ND	500
Propylene Oxide	ND	5000
Camphene (total)	ND	2000
Camphor	ND	2000
Amyl Acetate	ND	1000
2-Methylnaphthalene	ND	500
1-Chlorohexane	ND	500
Chlorotrifluoromethane	ND	500
Chlorodifluoromethane	ND	500
tert-Amylmethyl Ether	ND	500
Iodomethane	ND	500
trans-1,4-Dichloro-2-butene	ND	500
1,3,5-Trichlorobenzene	ND	500

Client ID: **BV329**
Site:

Lab Sample No: **BV329**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/25/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21289.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21289.d
Report Date: 25-Nov-2002 16:53

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21289.d
Lab Smp Id: BV329
Inj Date : 25-NOV-2002 10:45
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BV329
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 25-Nov-2002 16:35 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 11 QC Sample: BLANK
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.424	8.411	(0.948)	1699616	49.3665	4900
* 19 Fluorobenzene	96	8.883	8.870	(1.000)	2964083	50.0000	
$ 37 Toluene-d8 (SUR)	98	10.866	10.854	(0.867)	2425814	48.9551	4900
* 32 Chlorobenzene-d5	117	12.539	12.527	(1.000)	2649723	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.812	13.800	(0.920)	2126457	46.2815	4600
* 91 1,4-Dichlorobenzene-d4	152	15.012	14.999	(1.000)	1734695	50.0000	

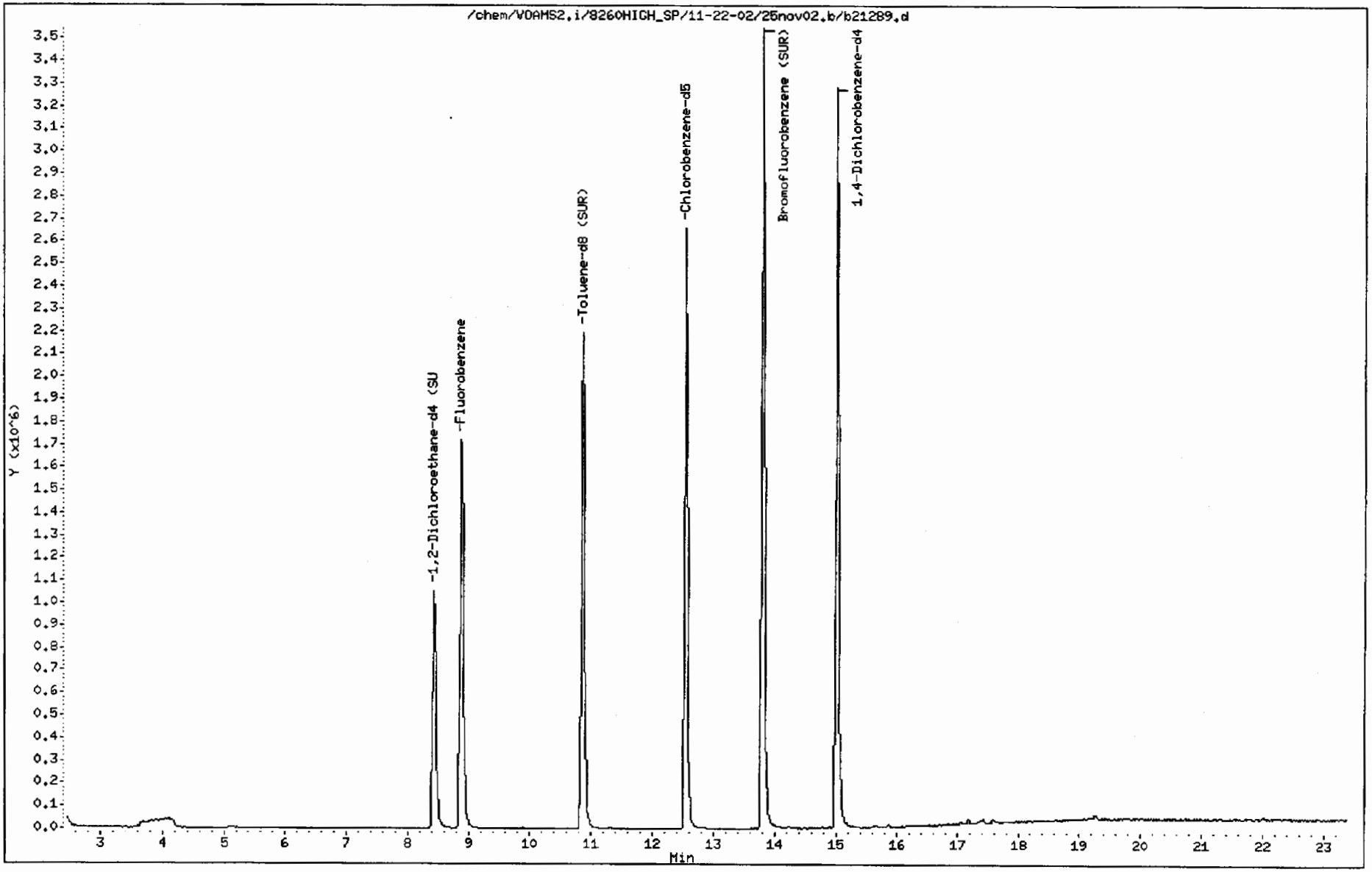
Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21289.d
Date : 25-NOV-2002 10:45
Client ID:
Sample Info: BV329

Instrument: VOAMS2.i

Operator: VOAMS 4

Column phase: DB624

Column diameter: 0.53



STL Edison

D092

LAB SAMPLE NO.

BV330M

VOLATILE METHOD BLANK SUMMARY

Matrix: SOIL

Level: HIGH

Lab File ID: B21322

Instrument ID: VOAMS2

Date Analyzed: 11/26/02

Time Analyzed: 1431

Heated Purge (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	HA-01-DUP	392324	B21324	1530
02	TRIP_BLANK	392325	B21325	1600
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

Client ID: **BV330M**
Site:

Lab Sample No: **BV330M**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21322.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	ND	300
Acetone	ND	500
Carbon Disulfide	ND	500
Trichlorofluoromethane	ND	500
1,1-Dichloroethene	ND	200
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
1,2-Dichloroethane	ND	200
2-Butanone	ND	500
1,1,1-Trichloroethane	ND	500
Carbon Tetrachloride	ND	200
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	100
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	300
Benzene	ND	100
trans-1,3-Dichloropropene	ND	500
2-Chloroethyl Vinyl Ether	ND	500
Bromoform	ND	400
4-Methyl-2-Pentanone	ND	500
2-Hexanone	ND	500
Tetrachloroethene	ND	100
1,1,2,2-Tetrachloroethane	ND	100
Toluene	ND	500
Chlorobenzene	ND	500
Ethylbenzene	ND	400

Client ID: **BV330M**
Site:

Lab Sample No: **BV330M**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21322.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Styrene	ND	500
Xylene (Total)	ND	500
Ethyl Ether	ND	500
Acrolein	ND	10000
Freon TF	ND	500
Isopropanol	ND	50000
Acetonitrile	ND	10000
TBA	ND	10000
Acrylonitrile	ND	5000
MTBE	ND	500
Hexane	ND	500
DIPE	ND	500
Ethyl Acetate	ND	1000
Vinyl Acetate	ND	500
Tetrahydrofuran	ND	500
Cyclohexane	ND	500
Isobutanol	ND	50000
Isopropyl Acetate	ND	1000
n-Heptane	ND	500
n-Butanol	ND	50000
Propyl Acetate	ND	1000
Butyl Acetate	ND	1000
1,2-Dibromoethane	ND	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	ND	500
1,2-Dichlorobenzene	ND	500
Naphthalene	ND	500
Methylnaphthalene (total)	ND	500
Dimethylnaphthalene (total)	ND	500
Dichlorodifluoromethane	ND	500
1,1-Dichloropropene	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
1,4-Dioxane	ND	100000

Client ID: **BV330M**
Site:

Lab Sample No: **BV330M**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21322.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Methyl Acrylate	ND	500
1,1,1,2-Tetrachloroethane	ND	500
1,2,3-Trichlorobenzene	ND	500
1,2,3-Trichloropropane	ND	500
1,2,4-Trimethylbenzene	ND	500
1,2-Dibromo-3-chloropropane	ND	500
1,3,5-Trimethylbenzene	ND	500
1,3-Dichloropropane	ND	500
2,2-Dichloropropane	ND	500
2-Chlorotoluene	ND	500
4-Chlorotoluene	ND	500
Bromobenzene	ND	500
Bromochloromethane	ND	500
Dibromomethane	ND	500
Isopropylbenzene	ND	500
n-Butylbenzene	ND	500
n-Propylbenzene	ND	500
p-Isopropyltoluene	ND	500
sec-Butylbenzene	ND	500
tert-Butylbenzene	ND	500
Allyl chloride	ND	500
Benzyl chloride	ND	500
Epichlorohydrin	ND	10000
Isoprene	ND	500
Methyl methacrylate	ND	500
n-Pentane	ND	500
Allyl alcohol	ND	100000
2-Octanol	ND	1000
2-Octanone	ND	500
Ethyl Acrylate	ND	500
Butyl Acrylate	ND	500
Butyl Methacrylate	ND	500
Ethyl methacrylate	ND	500
Ethanol	ND	50000

Client ID: **BV330M**
Site:

Lab Sample No: **BV330M**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21322.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Methyl Acetate	ND	500
Methyl Cyclohexane	ND	500
Cyclohexanone	ND	10000
p-Ethyltoluene	ND	500
1,4-Diethylbenzene	ND	500
1,2,4,5-Tetramethylbenzene	ND	500
Propylene Oxide	ND	5000
Camphene (total)	ND	2000
Camphor	ND	2000
Amyl Acetate	ND	1000
2-Methylnaphthalene	ND	500
1-Chlorohexane	ND	500
Chlorotrifluoromethane	ND	500
Chlorodifluoromethane	ND	500
tert-Amylmethyl Ether	ND	500
Iodomethane	ND	500
trans-1,4-Dichloro-2-butene	ND	500
1,3,5-Trichlorobenzene	ND	500

Client ID: **BV330M**
Site:

Lab Sample No: **BV330M**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/26/02
GC Column: DB624
Instrument ID: VOAMS2.i
Lab File ID: b21322.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21322.d
Report Date: 26-Nov-2002 18:00

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21322.d
Lab Smp Id: BV330M
Inj Date : 26-NOV-2002 14:31
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BV330M
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 08:22 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 11 QC Sample: BLANK
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.409	8.439	(0.948)	1602202	47.4814	4700
* 19 Fluorobenzene	96	8.868	8.883	(1.000)	2905131	50.0000	
$ 37 Toluene-d8 (SUR)	98	10.852	10.882	(0.866)	2267581	47.1267	4700
* 32 Chlorobenzene-d5	117	12.525	12.540	(1.000)	2572978	50.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.798	13.813	(0.920)	1993259	45.1378	4500
* 91 1,4-Dichlorobenzene-d4	152	14.997	15.027	(1.000)	1667237	50.0000	

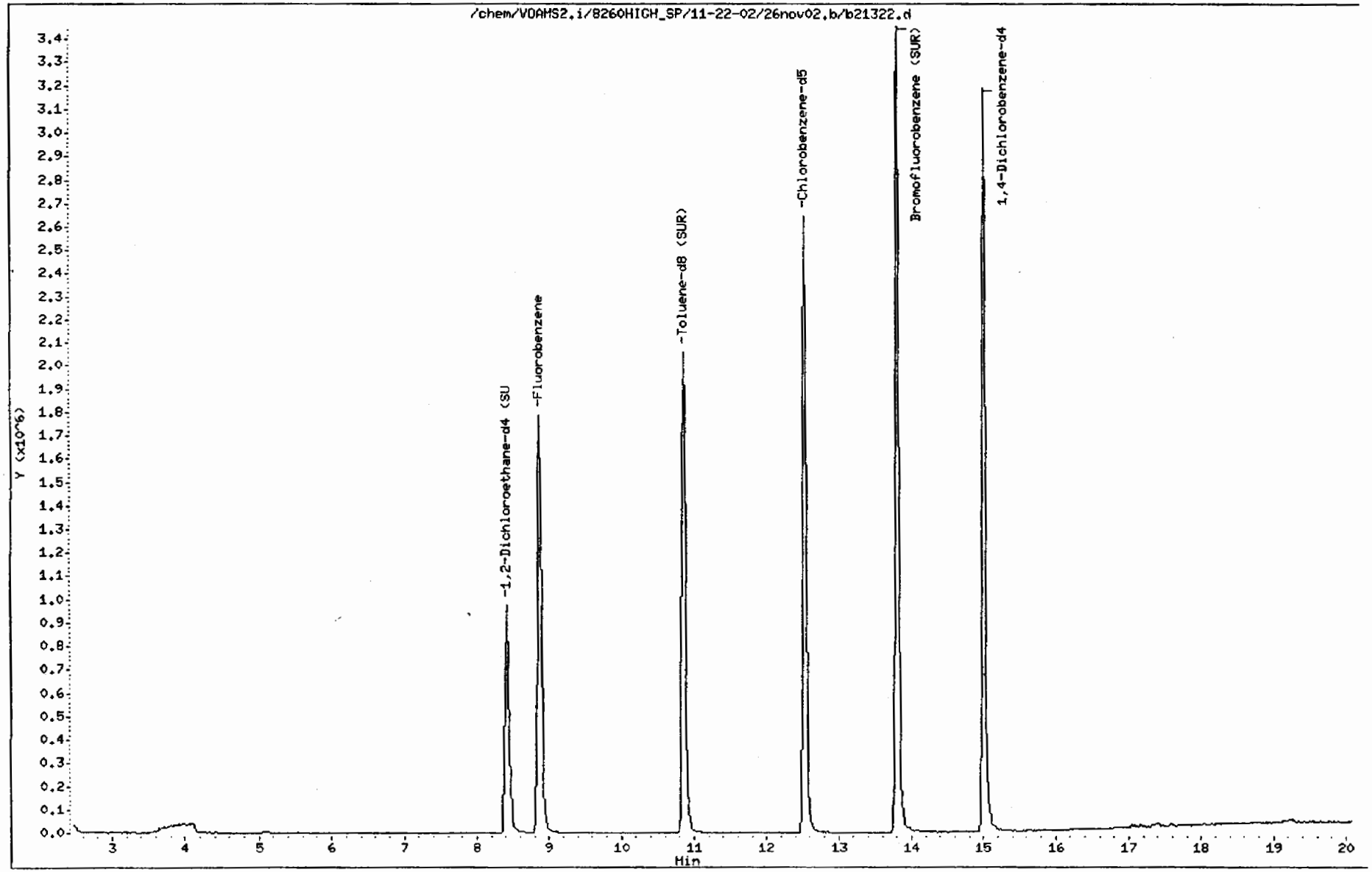
Data File: /chem/VOAHS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21322.d
Date : 26-NOV-2002 14:31
Client ID:
Sample Info: BV330M

Instrument: VOAHS2.i

Operator: VOAHS 4

Column phase: DB624

Column diameter: 0.53



397

STL Edison

D092

Job No. D092 - Malcolm Pirnie, Inc. - Earle NWS Closure

VOLUME 2

GC/MS Forms and Data (Volatiles)

GC/FID Forms and Data (GRO)

GC/MS Forms and Data (Semivolatiles)

Calibration Summary

VOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Calibration Time(s): 1103 1344

LAB FILE ID: RRF5: B21241 RRF20: B21243 RRF50: B21246
RRF100: B21245 RRF200: B21244

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200
Chloromethane	0.181	0.171	0.152	0.150	0.155
Bromomethane	0.301	0.286	0.264	0.266	0.261
Vinyl Chloride	0.196	0.189	0.167	0.168	0.182
Chloroethane	0.127	0.120	0.109	0.112	0.108
Methylene Chloride	0.342	0.297	0.282	0.303	0.293
Acetone	0.090	0.059	0.060	0.056	0.058
Carbon Disulfide	0.722	0.675	0.616	0.586	0.640
Trichlorofluoromethane	1.282	1.170	1.130	1.121	1.116
1,1-Dichloroethene	0.406	0.317	0.303	0.327	0.316
1,1-Dichloroethane	0.628	0.584	0.576	0.578	0.553
trans-1,2-Dichloroethene	0.429	0.371	0.354	0.379	0.367
cis-1,2-Dichloroethene	0.447	0.394	0.381	0.407	0.382
Chloroform	1.055	0.918	0.897	0.989	0.926
1,2-Dichloroethane	0.734	0.635	0.640	0.698	0.641
2-Butanone	0.021	0.026	0.023	0.026	0.024
1,1,1-Trichloroethane	1.182	0.993	0.993	1.121	1.053
Carbon Tetrachloride	1.233	1.054	1.070	1.160	1.078
Bromodichloromethane	1.056	0.942	0.881	1.055	0.899
1,2-Dichloropropane	0.392	0.309	0.289	0.310	0.259
cis-1,3-Dichloropropene	0.599	0.558	0.510	0.545	0.500
Trichloroethene	0.627	0.532	0.517	0.555	0.509
Dibromochloromethane	1.197	1.183	1.181	1.322	1.170
1,1,2-Trichloroethane	0.372	0.350	0.330	0.368	0.326
Benzene	0.876	0.694	0.653	0.684	0.620
trans-1,3-Dichloropropene	0.643	0.630	0.628	0.708	0.660
2-Chloroethyl Vinyl Ether	0.138	0.146	0.128	0.177	0.169
Bromoform	0.970	0.987	1.032	1.215	1.056
4-Methyl-2-Pentanone	0.230	0.229	0.203	0.213	0.200
2-Hexanone	0.197	0.169	0.159	0.169	0.150
Tetrachloroethene	1.179	0.961	0.909	0.947	0.860
1,1,2,2-Tetrachloroethane	0.972	0.900	0.821	0.910	0.837
Toluene	1.209	1.063	0.984	1.062	0.990
Chlorobenzene	1.095	0.979	0.928	0.990	0.899
Ethylbenzene	0.469	0.400	0.370	0.387	0.344
Styrene	0.821	0.765	0.756	0.807	0.717
Xylene (Total)	0.550	0.469	0.455	0.478	0.420
Ethyl Ether	0.166	0.161	0.146	0.142	0.149
Acrolein	0.006	0.007	0.007	0.007	0.007
Freon TF	0.986	0.846	0.798	0.744	0.784

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Calibration Time(s): 1103 1344

LAB FILE ID: RRF5: B21241 RRF20: B21243 RRF50: B21246
RRF100: B21245 RRF200: B21244

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200
Isopropanol					
Acetonitrile	0.031	0.030	0.027	0.024	0.027
TBA	0.019	0.019	0.019	0.020	0.019
Acrylonitrile	0.036	0.043	0.041	0.045	0.047
MTBE	0.818	0.781	0.733	0.730	0.742
Hexane					
DIPE	0.912	0.860	0.785	0.760	0.786
Ethyl Acetate	0.277	0.290	0.269	0.268	0.265
Vinyl Acetate	0.910	0.903	0.862	0.805	0.822
Tetrahydrofuran					
Cyclohexane	0.422	0.358	0.330	0.306	0.318
Isobutanol					
Isopropyl Acetate	0.524	0.541	0.500	0.498	0.477
n-Heptane					
n-Butanol					
Propyl Acetate	0.418	0.392	0.333	0.340	0.299
Butyl Acetate	0.491	0.477	0.448	0.474	0.438
1,2-Dibromoethane	0.854	0.824	0.798	0.883	0.775
1,3-Dichlorobenzene	1.637	1.484	1.398	1.481	1.348
1,4-Dichlorobenzene	2.002	1.663	1.562	1.649	1.520
1,2-Dichlorobenzene	1.643	1.347	1.364	1.443	1.298
Naphthalene	1.400	1.296	1.327	1.444	1.209
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	0.695	0.627	0.606	0.547	0.575
1,1-Dichloropropene	0.607	0.524	0.508	0.551	0.502
1,2,4-Trichlorobenzene	1.474	1.267	1.271	1.335	1.223
Hexachlorobutadiene	1.362	1.088	1.135	1.195	1.104
1,4-Dioxane	0.002	0.002	0.002	0.002	0.002
Methyl Acrylate	0.164	0.196	0.196	0.211	0.202
1,1,1,2-Tetrachloroethane	0.804	0.748	0.730	0.797	0.702
1,2,3-Trichlorobenzene	1.324	1.129	1.121	1.173	1.061
1,2,3-Trichloropropane	0.354	0.352	0.324	0.358	0.322
1,2,4-Trimethylbenzene	1.953	1.781	1.586	1.631	1.515
1,2-Dibromo-3-chloropropane	0.259	0.258	0.283	0.334	0.272
1,3,5-Trimethylbenzene	1.966	1.807	1.603	1.653	1.554
1,3-Dichloropropane	0.615	0.574	0.549	0.598	0.522
2,2-Dichloropropane	0.838	0.714	0.681	0.761	0.721
2-Chlorotoluene	2.053	1.888	1.786	1.881	1.798

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Calibration Time(s): 1103 1344

LAB FILE ID: RRF5: B21241 RRF20: B21243 RRF50: B21246
RRF100: B21245 RRF200: B21244

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200
4-Chlorotoluene	2.324	1.912	1.805	1.946	1.857
Bromobenzene	1.334	1.184	1.081	1.146	1.089
Bromochloromethane	0.407	0.366	0.357	0.382	0.359
Dibromomethane	0.574	0.525	0.478	0.556	0.462
Isopropylbenzene	1.754	1.497	1.464	1.546	1.370
n-Butylbenzene	1.854	1.581	1.540	1.589	1.498
n-Propylbenzene	2.607	2.323	2.184	2.348	2.268
p-Isopropyltoluene	2.372	2.054	1.885	1.978	1.843
sec-Butylbenzene	2.662	2.293	2.186	2.337	2.227
tert-Butylbenzene	2.268	1.990	1.883	2.004	1.888
Allyl chloride	0.150	0.130	0.135	0.113	0.138
Benzyl chloride	1.233	1.216	1.085	1.173	1.164
Epichlorohydrin	0.027	0.028	0.023	0.025	0.022
Isoprene	0.261	0.226	0.209	0.196	0.216
Methyl methacrylate	0.181	0.181	0.165	0.181	0.167
n-Pentane	0.046	0.038	0.036	0.033	0.036
Allyl alcohol	0.001	0.002	0.002	0.002	0.002
2-Octanol					
2-Octanone					
Ethyl Acrylate					
Butyl Acrylate					
Butyl Methacrylate					
Ethyl methacrylate					
Ethanol					
Methyl Acetate	0.183	0.192	0.188	0.193	0.196
Methyl Cyclohexane	0.464	0.408	0.377	0.357	0.339
Cyclohexanone					
p-Ethyltoluene					
1,4-Diethylbenzene					
1,2,4,5-Tetramethylbenzene					
Propylene Oxide					
Camphene (total)					
Camphor					
Amyl Acetate					
2-Methylnaphthalene					
1-Chlorohexane					
Chlorotrifluoromethane					
Chlorodifluoromethane					
tert-Amylmethyl Ether					

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Calibration Time(s): 1103 1344

LAB FILE ID: RRF5: B21241 RRF20: B21243 RRF50: B21246
RRF100: B21245 RRF200: B21244

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200
Iodomethane					
trans-1,4-Dichloro-2-butene					
1,3,5-Trichlorobenzene					
1,2-Dichloroethane-d4 (SUR)	0.571	0.586	0.573	0.594	0.579
Toluene-d8 (SUR)	0.976	0.977	0.902	0.915	0.905
Bromofluorobenzene (SUR)	1.431	1.356	1.252	1.274	1.308

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Calibration Time(s): 1103 1344

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Chloromethane	AVRG	0.16187290	8.3**
Bromomethane	AVRG	0.27574894	6.2*
Vinyl Chloride	AVRG	0.18036192	7.1*
Chloroethane	AVRG	0.11509864	7.1*
Methylene Chloride	AVRG	0.30343001	7.5*
Acetone	AVRG	0.06441598	22.4*
Carbon Disulfide	AVRG	0.64779372	8.2*
Trichlorofluoromethane	AVRG	1.16388043	6.0*
1,1-Dichloroethene	AVRG	0.33392447	12.4*
1,1-Dichloroethane	AVRG	0.58395285	4.7**
trans-1,2-Dichloroethene	AVRG	0.38003420	7.6*
cis-1,2-Dichloroethene	AVRG	0.40205896	6.7*
Chloroform	AVRG	0.95712036	6.8*
1,2-Dichloroethane	AVRG	0.66950006	6.6*
2-Butanone	AVRG	0.02418714	8.5*
1,1,1-Trichloroethane	AVRG	1.06843010	7.7*
Carbon Tetrachloride	AVRG	1.11879668	6.8*
Bromodichloromethane	AVRG	0.96655333	8.7*
1,2-Dichloropropane	AVRG	0.31205847	15.8*
cis-1,3-Dichloropropene	AVRG	0.54241747	7.3*
Trichloroethene	AVRG	0.54821099	8.7*
Dibromochloromethane	AVRG	1.21058767	5.2*
1,1,2-Trichloroethane	AVRG	0.34941869	6.0*
Benzene	AVRG	0.70541528	14.1*
trans-1,3-Dichloropropene	AVRG	0.65393595	5.1*
2-Chloroethyl Vinyl Ether	AVRG	0.15180239	13.7*
Bromoform	AVRG	1.05222244	9.2**
4-Methyl-2-Pentanone	AVRG	0.21511084	6.5*
2-Hexanone	AVRG	0.16878346	10.5*
Tetrachloroethene	AVRG	0.97135323	12.6*
1,1,2,2-Tetrachloroethane	AVRG	0.88800593	6.8**
Toluene	AVRG	1.06172000	8.5*
Chlorobenzene	AVRG	0.97828081	7.7**
Ethylbenzene	AVRG	0.39401895	11.9*
Styrene	AVRG	0.77327269	5.4*
Xylene (Total)	AVRG	0.47418417	10.0*
Ethyl Ether	AVRG	0.15281738	6.6*
Acrolein	AVRG	0.00663048	8.6*
Freon TF	AVRG	0.83162113	11.2*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Calibration Time(s): 1103 1344

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Isopropanol	AVRG		
Acetonitrile	AVRG	0.02777284	9.0*
TBA	AVRG	0.01921693	1.9*
Acrylonitrile	AVRG	0.04261106	9.6*
MTBE	AVRG	0.76084727	5.0*
Hexane	AVRG		
DIPE	AVRG	0.82056581	7.8*
Ethyl Acetate	AVRG	0.27385122	3.8*
Vinyl Acetate	AVRG	0.86058686	5.5*
Tetrahydrofuran	AVRG		
Cyclohexane	AVRG	0.34663936	13.4*
Isobutanol	AVRG		
Isopropyl Acetate	AVRG	0.50809307	4.8*
n-Heptane	AVRG		
n-Butanol	AVRG		
Propyl Acetate	AVRG	0.35647552	13.5*
Butyl Acetate	AVRG	0.46563681	4.7*
1,2-Dibromoethane	AVRG	0.82689825	5.2*
1,3-Dichlorobenzene	AVRG	1.46957946	7.5*
1,4-Dichlorobenzene	AVRG	1.67932786	11.3*
1,2-Dichlorobenzene	AVRG	1.41929977	9.6*
Naphthalene	AVRG	1.33510786	6.9*
Methylnaphthalene (total)	AVRG		
Dimethylnaphthalene (total)	AVRG		
Dichlorodifluoromethane	AVRG	0.60999396	9.3*
1,1-Dichloropropene	AVRG	0.53866160	7.9*
1,2,4-Trichlorobenzene	AVRG	1.31378580	7.4*
Hexachlorobutadiene	AVRG	1.17680306	9.5*
1,4-Dioxane	AVRG	0.00205400	9.2*
Methyl Acrylate	AVRG	0.19414789	9.2*
1,1,1,2-Tetrachloroethane	AVRG	0.75615398	5.8*
1,2,3-Trichlorobenzene	AVRG	1.16168260	8.5*
1,2,3-Trichloropropane	AVRG	0.34198701	5.2*
1,2,4-Trimethylbenzene	AVRG	1.69322333	10.3*
1,2-Dibromo-3-chloropropane	AVRG	0.28114430	11.1*
1,3,5-Trimethylbenzene	AVRG	1.71667974	9.8*
1,3-Dichloropropane	AVRG	0.57169484	6.5*
2,2-Dichloropropane	AVRG	0.74319275	8.1*
2-Chlorotoluene	AVRG	1.88121141	5.7*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Calibration Time(s): 1103 1344

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
4-Chlorotoluene	AVRG	1.96851077	10.4*
Bromobenzene	AVRG	1.16670812	8.8*
Bromochloromethane	AVRG	0.37426991	5.6*
Dibromomethane	AVRG	0.51909120	9.3*
Isopropylbenzene	AVRG	1.52620689	9.4*
n-Butylbenzene	AVRG	1.61279826	8.7*
n-Propylbenzene	AVRG	2.34601895	6.8*
p-Isopropyltoluene	AVRG	2.02640508	10.4*
sec-Butylbenzene	AVRG	2.34092941	8.1*
tert-Butylbenzene	AVRG	2.00661053	7.8*
Allyl chloride	AVRG	0.13307142	10.0*
Benzyl chloride	AVRG	1.17426418	4.9*
Epichlorohydrin	AVRG	0.02509420	10.5*
Isoprene	AVRG	0.22154171	11.2*
Methyl methacrylate	AVRG	0.17512714	4.8*
n-Pentane	AVRG	0.03796971	13.2*
Allyl alcohol	AVRG	0.00173140	14.4*
2-Octanol	AVRG		
2-Octanone	AVRG		
Ethyl Acrylate	AVRG		
Butyl Acrylate	AVRG		
Butyl Methacrylate	AVRG		
Ethyl methacrylate	AVRG		
Ethanol	AVRG		
Methyl Acetate	AVRG	0.19050372	2.8*
Methyl Cyclohexane	AVRG	0.38916538	12.6*
Cyclohexanone	AVRG		
p-Ethyltoluene	AVRG		
1,4-Diethylbenzene	AVRG		
1,2,4,5-Tetramethylbenzene	AVRG		
Propylene Oxide	AVRG		
Camphene (total)	AVRG		
Camphor	AVRG		
Amyl Acetate	AVRG		
2-Methylnaphthalene	AVRG		
1-Chlorohexane	AVRG		
Chlorotrifluoromethane	AVRG		
Chlorodifluoromethane	AVRG		
tert-Amylmethyl Ether	AVRG		

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Calibration Time(s): 1103 1344

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Iodomethane	AVRG		
trans-1,4-Dichloro-2-butene	AVRG		
1,3,5-Trichlorobenzene	AVRG		
1,2-Dichloroethane-d4 (SUR)	AVRG	0.58076171	1.6*
Toluene-d8 (SUR)	AVRG	0.93503829	4.1*
Bromofluorobenzene (SUR)	AVRG	1.32432872	5.4*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21241.d
Report Date: 22-Nov-2002 15:24

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21241.d
Lab Smp Id: BSTD005
Inj Date : 22-NOV-2002 11:03
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BSTD005
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/8260H_02.m
Meth Date : 22-Nov-2002 15:24 ken Quant Type: ISTD
Cal Date : 22-NOV-2002 11:03 Cal File: b21241.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpd2

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

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)
90 Dichlorodifluoromethane	85	2.771	2.785	(0.309)	245125	5.00000	5.7
1 Chloromethane	50	3.052	3.081	(0.341)	63835	5.00000	5.6
4 Vinyl Chloride	62	3.245	3.259	(0.362)	69172	5.00000	5.4
3 Bromomethane	94	3.718	3.733	(0.415)	106188	5.00000	5.4
5 Chloroethane	64	3.866	3.881	(0.432)	44678	5.00000	5.5
9 Trichlorofluoromethane	101	4.266	4.280	(0.476)	452298	5.00000	5.5
121 n-Pentane	72	4.385	4.384	(0.489)	16407	5.00000	6.1
46 Ethyl Ether	59	4.695	4.724	(0.524)	58525	5.00000	5.4
119 Isoprene	67	4.725	4.724	(0.527)	92226	5.00000	5.9
47 Acrolein	56	4.858	4.887	(0.542)	39772	100.000	85(a)
48 Freon TF	101	5.006	5.021	(0.559)	347612	5.00000	5.9
10 1,1-Dichloroethene	96	5.006	5.021	(0.559)	57328	2.00000	2.4
7 Acetone	43	5.095	5.109	(0.569)	31768	5.00000	7.0
8 Carbon Disulfide	76	5.332	5.361	(0.595)	254644	5.00000	5.6

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21241.d
Report Date: 22-Nov-2002 15:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
50 Acetonitrile	41	5.495	5.509	(0.613)	217682	100.000	110
116 Allyl chloride	76	5.495	5.509	(0.613)	52730	5.00000	5.6(H)
131 Methyl Acetate	43	5.539	5.539	(0.618)	64426	5.00000	4.8(a)
6 Methylene Chloride	84	5.658	5.672	(0.632)	72317	3.00000	3.4
51 TBA	59	5.806	5.835	(0.648)	134493	100.000	99(a)
52 Acrylonitrile	53	5.969	5.983	(0.666)	128640	50.0000	43(a)
53 MTBE	73	6.043	6.057	(0.674)	288604	5.00000	5.4
12 trans-1,2-Dichloroethene	96	6.043	6.057	(0.674)	151369	5.00000	5.6
11 1,1-Dichloroethane	63	6.605	6.619	(0.737)	221592	5.00000	5.4
57 Vinyl Acetate	43	6.664	6.664	(0.744)	321129	5.00000	5.3
55 DIPE	45	6.679	6.693	(0.746)	321860	5.00000	5.6
122 Allyl alcohol	57	6.635	6.649	(0.741)	102799	1000.00	840(a)
18 2-Butanone	72	7.404	7.419	(0.826)	7424	5.00000	4.3(a)
13 cis-1,2-Dichloroethene	96	7.390	7.419	(0.825)	157551	5.00000	5.6
104 2,2-Dichloropropane	77	7.404	7.419	(0.826)	295742	5.00000	5.6
56 Ethyl Acetate	43	7.464	7.463	(0.833)	195625	10.0000	10
108 Bromochloromethane	128	7.730	7.744	(0.863)	143711	5.00000	5.4
15 Chloroform	83	7.819	7.833	(0.873)	372242	5.00000	5.5
20 1,1,1-Trichloroethane	97	8.115	8.129	(0.906)	416836	5.00000	5.5
59 Cyclohexane	56	8.234	8.248	(0.919)	148851	5.00000	6.1
92 1,1-Dichloropropene	75	8.337	8.351	(0.931)	214045	5.00000	5.6
21 Carbon Tetrachloride	117	8.367	8.381	(0.934)	173935	2.00000	2.2
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.515	8.529	(0.950)	201506	5.00000	4.9
61 Isopropyl Acetate	43	8.618	8.633	(0.962)	369347	10.0000	10
17 1,2-Dichloroethane	62	8.618	8.633	(0.962)	103484	2.00000	2.2
28 Benzene	78	8.618	8.633	(0.962)	61786	1.00000	1.2
* 19 Fluorobenzene	96	8.959	8.973	(1.000)	3526938	50.0000	
25 Trichloroethene	95	9.447	9.462	(1.055)	44256	1.00000	1.1
132 Methyl Cyclohexane	83	9.729	9.728	(1.086)	163617	5.00000	6.0
23 1,2-Dichloropropane	63	9.714	9.728	(1.084)	27682	1.00000	1.2
120 Methyl methacrylate	69	9.818	9.817	(1.096)	64008	5.00000	5.2
64 Propyl Acetate	43	9.877	9.876	(1.102)	295119	10.0000	12
95 1,4-Dioxane	88	9.877	9.891	(1.102)	153717	1000.00	1100
109 Dibromomethane	93	9.877	9.891	(1.102)	202446	5.00000	5.5
22 Bromodichloromethane	83	10.054	10.054	(1.122)	74477	1.00000	1.1
30 2-Chloroethyl Vinyl Ether	63	10.395	10.394	(1.160)	48865	5.00000	4.6(a)
118 Epichlorohydrin	57	10.469	10.483	(1.169)	193007	100.000	110
24 cis-1,3-Dichloropropene	75	10.602	10.616	(1.183)	211283	5.00000	5.5
33 4-Methyl-2-Pentanone	43	10.750	10.750	(1.200)	81067	5.00000	5.3
$ 37 Toluene-d8 (SUR)	98	10.943	10.957	(0.867)	312546	5.00000	5.6
38 Toluene	91	11.031	11.046	(0.874)	386993	5.00000	6.1
29 trans-1,3-Dichloropropene	75	11.253	11.253	(0.892)	205971	5.00000	5.3
27 1,1,2-Trichloroethane	83	11.461	11.475	(0.908)	71414	3.00000	3.4
103 1,3-Dichloropropane	76	11.668	11.682	(0.925)	196955	5.00000	5.8
35 Tetrachloroethene	166	11.698	11.697	(0.927)	75508	1.00000	1.3
34 2-Hexanone	43	11.727	11.727	(0.930)	63069	5.00000	4.0(a)
65 Butyl Acetate	43	11.846	11.845	(0.939)	314158	10.0000	11

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21241.d
Report Date: 22-Nov-2002 15:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	26 Dibromochloromethane	129	11.949	11.963	(0.947)	383283	5.00000	5.4
	66 1,2-Dibromoethane	107	12.097	12.112	(0.959)	273329	5.00000	5.6
*	32 Chlorobenzene-d5	117	12.615	12.630	(1.000)	3201159	50.0000	
	39 Chlorobenzene	112	12.645	12.659	(1.002)	350501	5.00000	6.0
	97 1,1,1,2-Tetrachloroethane	131	12.719	12.733	(1.008)	257428	5.00000	5.7
	40 Ethylbenzene	106	12.749	12.763	(1.011)	120197	4.00000	4.4
	43 m+p-Xylene	106	12.867	12.881	(1.020)	356359	10.0000	12
	96 Methyl Acrylate	55	7.538	7.537	(0.841)	57895	5.00000	4.2(Ta)
	44 o-Xylene	106	13.326	13.325	(1.056)	171590	5.00000	6.2
	42 Styrene	104	13.326	13.340	(1.056)	262756	5.00000	5.7
	31 Bromoform	173	13.563	13.577	(1.075)	248560	4.00000	4.0
	110 Isopropylbenzene	105	13.696	13.710	(1.086)	561488	5.00000	6.2
$	41 Bromofluorobenzene (SUR)	174	13.889	13.903	(0.921)	302258	5.00000	5.4
	36 1,1,2,2-Tetrachloroethane	83	13.992	13.992	(0.927)	41049	1.00000	1.1
	99 1,2,3-Trichloropropane	110	14.051	14.066	(0.931)	74808	5.00000	5.2
	107 Bromobenzene	156	14.081	14.080	(0.933)	281739	5.00000	5.7
	112 n-Propylbenzene	91	14.140	14.140	(0.937)	550567	5.00000	5.6
	105 2-Chlorotoluene	91	14.259	14.273	(0.945)	433512	5.00000	5.4
	102 1,3,5-Trimethylbenzene	105	14.303	14.302	(0.948)	415175	5.00000	5.7
	106 4-Chlorotoluene	91	14.362	14.377	(0.952)	490661	5.00000	5.9
	115 tert-Butylbenzene	119	14.658	14.658	(0.972)	478930	5.00000	5.6
	100 1,2,4-Trimethylbenzene	105	14.703	14.702	(0.974)	412471	5.00000	5.8
	114 sec-Butylbenzene	105	14.880	14.880	(0.986)	562233	5.00000	5.7
	113 p-Isopropyltoluene	119	14.999	15.013	(0.994)	500849	5.00000	5.8
	67 1,3-Dichlorobenzene	146	15.043	15.043	(0.997)	345717	5.00000	5.6
*	91 1,4-Dichlorobenzene-d4	152	15.088	15.102	(1.000)	2111680	50.0000	
	68 1,4-Dichlorobenzene	146	15.117	15.132	(1.002)	422861	5.00000	6.0
	117 Benzyl chloride	91	15.236	15.235	(1.010)	260338	5.00000	5.2
	111 n-Butylbenzene	91	15.413	15.428	(1.022)	391618	5.00000	5.7
	69 1,2-Dichlorobenzene	146	15.502	15.516	(1.027)	347025	5.00000	5.8
	101 1,2-Dibromo-3-chloropropane	75	16.257	16.271	(1.077)	54751	5.00000	4.6(a)
	93 1,2,4-Trichlorobenzene	180	17.131	17.145	(1.135)	311217	5.00000	5.6
	94 Hexachlorobutadiene	225	17.279	17.293	(1.145)	287650	5.00000	5.8
	70 Naphthalene	128	17.427	17.426	(1.155)	295593	5.00000	5.2
	98 1,2,3-Trichlorobenzene	180	17.678	17.678	(1.172)	279670	5.00000	5.7
M	14 1,2-Dichloroethene (total)	100				308920	10.0000	11
M	45 Xylene (Total)	100				527949	15.0000	19

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

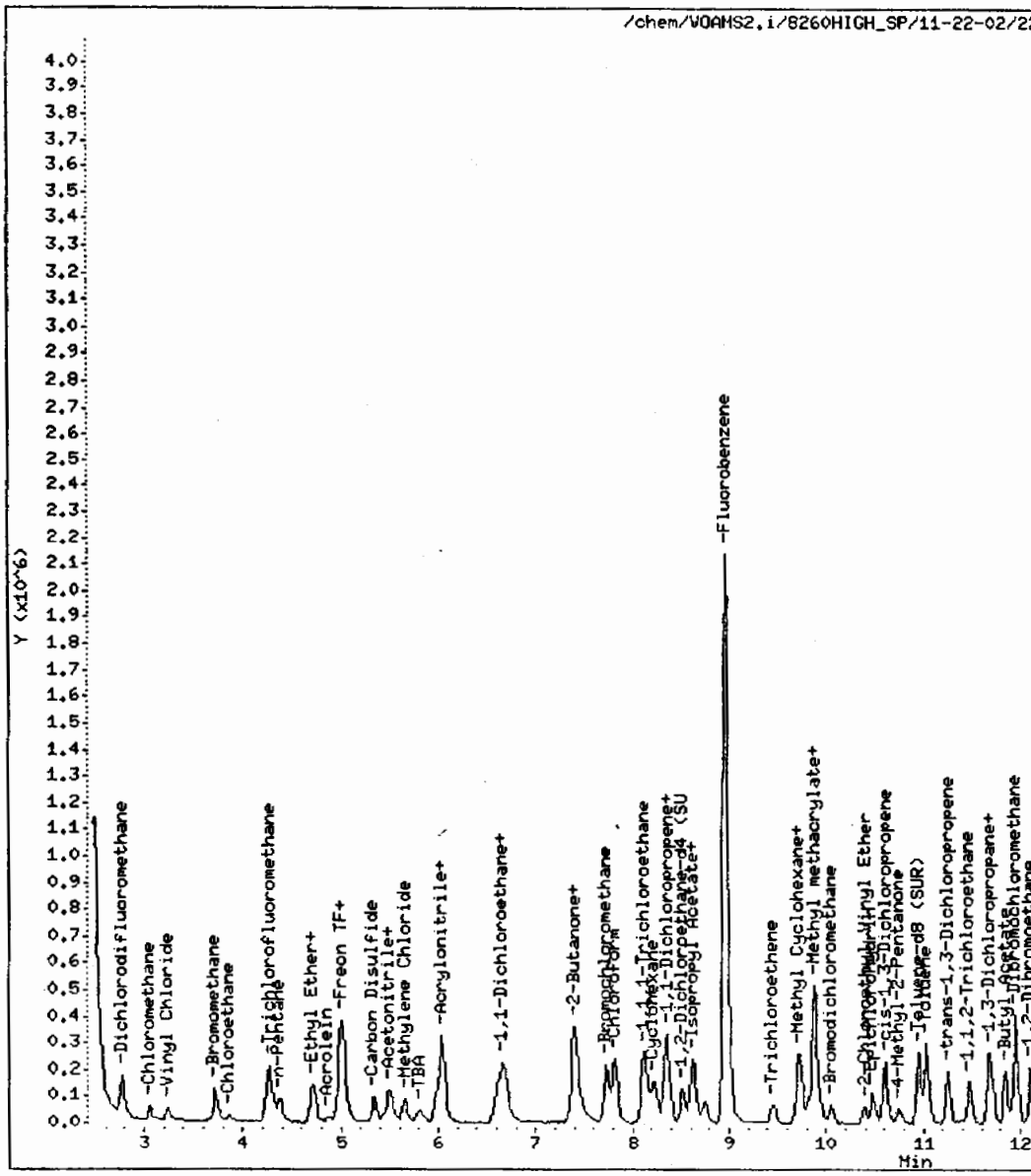
Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21241.d
Date : 22-NOV-2002 11:03
Client ID:
Sample Info: BSTD005

Instrume

Operator

Column phase: DB624

Column c



Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21243.d
Report Date: 22-Nov-2002 15:22

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21243.d
Lab Smp Id: BSTD020
Inj Date : 22-NOV-2002 12:15
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BSTD020
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/8260H_02.m
Meth Date : 22-Nov-2002 15:15 ken Quant Type: ISTD
Cal Date : 22-NOV-2002 12:15 Cal File: b21243.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpd2

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

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)
90 Dichlorodifluoromethane	85	2.798	2.785	(0.312)	745477	20.0000	20
1 Chloromethane	50	3.079	3.081	(0.343)	203171	20.0000	21
4 Vinyl Chloride	62	3.272	3.259	(0.365)	224367	20.0000	21
3 Bromomethane	94	3.746	3.733	(0.418)	339464	20.0000	21
5 Chloroethane	64	3.879	3.881	(0.432)	142947	20.0000	21
9 Trichlorofluoromethane	101	4.279	4.280	(0.477)	1391174	20.0000	20
121 n-Pentane	72	4.397	4.384	(0.490)	44586	20.0000	20
46 Ethyl Ether	59	4.723	4.724	(0.526)	191002	20.0000	21
119 Isoprene	67	4.737	4.724	(0.528)	268278	20.0000	21
47 Acrolein	56	4.886	4.887	(0.545)	80809	200.000	190
48 Freon TF	101	5.034	5.021	(0.561)	1005859	20.0000	20
10 1,1-Dichloroethene	96	5.034	5.021	(0.561)	377110	20.0000	19
7 Acetone	43	5.108	5.109	(0.569)	69843	20.0000	17
8 Carbon Disulfide	76	5.359	5.361	(0.597)	802692	20.0000	21

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21243.d
Report Date: 22-Nov-2002 15:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	50 Acetonitrile	41	5.507	5.509	(0.614)	702738	400.000	420
	116 Allyl chloride	76	5.522	5.361	(0.616)	154725	20.0000	5.9(TH)
	131 Methyl Acetate	43	5.552	5.539	(0.619)	228619	20.0000	20
	6 Methylene Chloride	84	5.670	5.672	(0.632)	353005	20.0000	20
	51 TBA	59	5.833	5.835	(0.650)	461642	400.000	400
	52 Acrylonitrile	53	5.981	5.983	(0.667)	257750	100.000	99
	53 MTBE	73	6.055	6.057	(0.675)	928509	20.0000	20
	12 trans-1,2-Dichloroethene	96	6.055	6.057	(0.675)	440529	20.0000	20
	11 1,1-Dichloroethane	63	6.618	6.619	(0.738)	694052	20.0000	20
	57 Vinyl Acetate	43	6.677	6.664	(0.744)	1073393	20.0000	21
	55 DIPE	45	6.692	6.693	(0.746)	1022072	20.0000	21
	122 Allyl alcohol	57	6.647	6.649	(0.741)	194694	2000.00	1800
	18 2-Butanone	72	7.417	7.419	(0.827)	30917	20.0000	21
	13 cis-1,2-Dichloroethene	96	7.417	7.419	(0.827)	468243	20.0000	20
	104 2,2-Dichloropropane	77	7.417	7.419	(0.827)	848855	20.0000	19
	56 Ethyl Acetate	43	7.476	7.463	(0.833)	690277	40.0000	41
	108 Bromochloromethane	128	7.743	7.744	(0.863)	434886	20.0000	20
	15 Chloroform	83	7.831	7.833	(0.873)	1090934	20.0000	19
	20 1,1,1-Trichloroethane	97	8.142	8.129	(0.908)	1180029	20.0000	19
	59 Cyclohexane	56	8.246	8.248	(0.919)	425310	20.0000	21
	92 1,1-Dichloropropene	75	8.364	8.351	(0.932)	623309	20.0000	20
	21 Carbon Tetrachloride	117	8.379	8.381	(0.934)	1252549	20.0000	19
S	16 1,2-Dichloroethane-d4 (SUR)	65	8.527	8.529	(0.950)	696963	20.0000	20
	61 Isopropyl Acetate	43	8.631	8.633	(0.962)	1286070	40.0000	42
	17 1,2-Dichloroethane	62	8.631	8.633	(0.962)	754704	20.0000	19
	28 Benzene	78	8.631	8.633	(0.962)	825286	20.0000	20
*	19 Fluorobenzene	96	8.971	8.973	(1.000)	2971722	50.0000	
	25 Trichloroethene	95	9.460	9.462	(1.054)	632877	20.0000	19
	132 Methyl Cyclohexane	83	9.726	9.728	(1.084)	485520	20.0000	21
	23 1,2-Dichloropropane	63	9.726	9.728	(1.084)	367526	20.0000	20
	120 Methyl methacrylate	69	9.830	9.817	(1.096)	215337	20.0000	21
	64 Propyl Acetate	43	9.874	9.876	(1.101)	932306	40.0000	42
	95 1,4-Dioxane	88	9.889	9.891	(1.102)	263001	2000.00	2100
	109 Dibromomethane	93	9.889	9.891	(1.102)	624479	20.0000	20
	22 Bromodichloromethane	83	10.067	10.054	(1.122)	1119705	20.0000	19
	30 2-Chloroethyl Vinyl Ether	63	10.393	10.394	(1.158)	173874	20.0000	19
	118 Epichlorohydrin	57	10.481	10.483	(1.168)	660097	400.000	440
	24 cis-1,3-Dichloropropene	75	10.615	10.616	(1.183)	663489	20.0000	21
	33 4-Methyl-2-Pentanone	43	10.763	10.750	(1.200)	272413	20.0000	21
S	37 Toluene-d8 (SUR)	98	10.955	10.957	(0.868)	1011723	20.0000	23
	38 Toluene	91	11.044	11.046	(0.875)	1101412	20.0000	22
	29 trans-1,3-Dichloropropene	75	11.251	11.253	(0.891)	652363	20.0000	21
	27 1,1,2-Trichloroethane	83	11.473	11.475	(0.909)	362881	20.0000	22
	103 1,3-Dichloropropane	76	11.680	11.682	(0.925)	594480	20.0000	21
	35 Tetrachloroethene	166	11.695	11.697	(0.926)	995385	20.0000	21
	34 2-Hexanone	43	11.725	11.727	(0.928)	175344	20.0000	14
	65 Butyl Acetate	43	11.843	11.845	(0.938)	987474	40.0000	44

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21243.d
Report Date: 22-Nov-2002 15:22

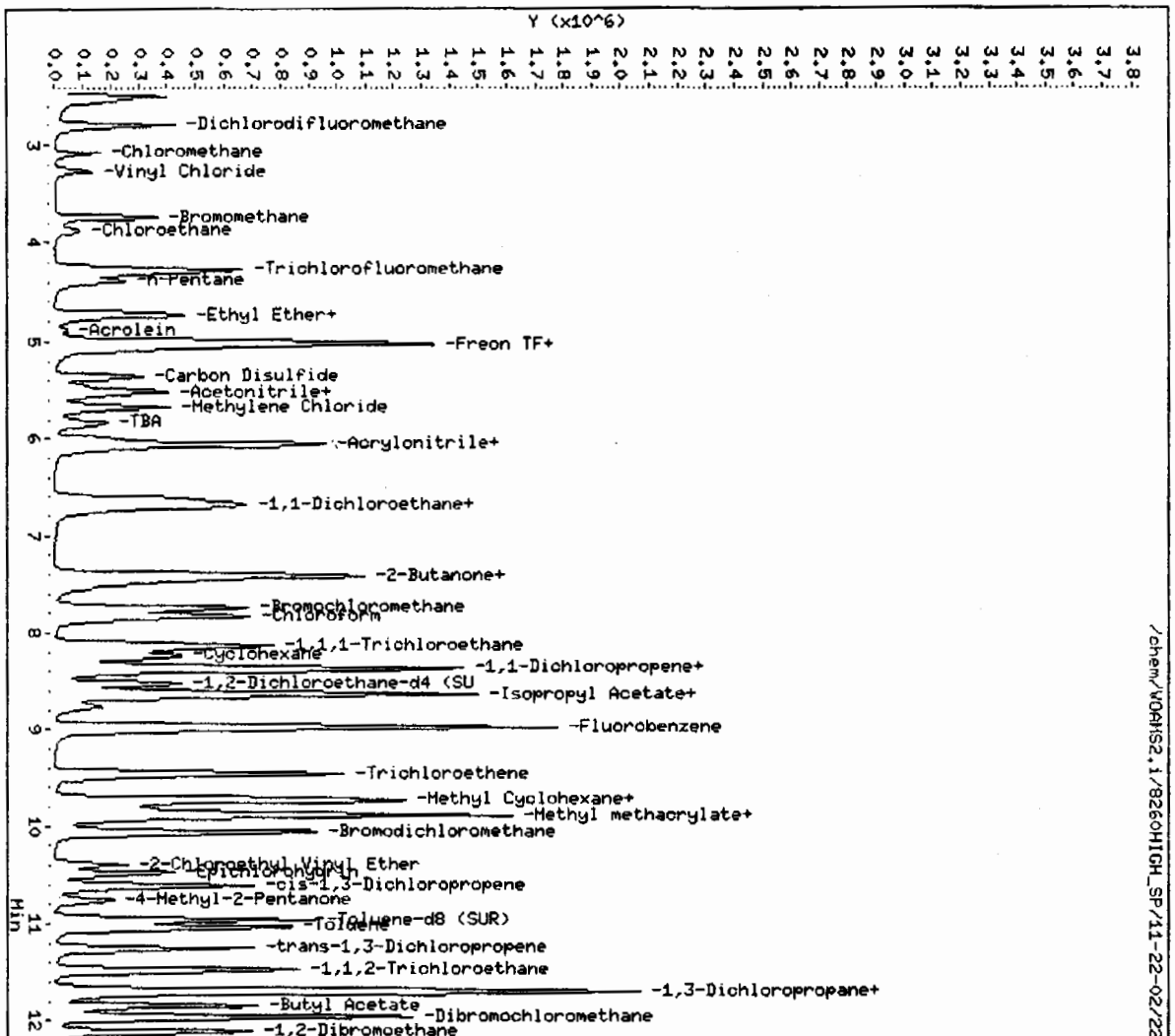
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	26 Dibromochloromethane	129	11.962	11.963	(0.947)	1225475	20.0000	21
	66 1,2-Dibromoethane	107	12.110	12.112	(0.959)	853780	20.0000	21
*	32 Chlorobenzene-d5	117	12.628	12.630	(1.000)	2589348	50.0000	
	39 Chlorobenzene	112	12.658	12.659	(1.002)	1014108	20.0000	21
	97 1,1,1,2-Tetrachloroethane	131	12.732	12.733	(1.008)	774736	20.0000	21
	40 Ethylbenzene	106	12.761	12.763	(1.011)	414345	20.0000	19
	43 m+p-Xylene	106	12.880	12.881	(1.020)	977137	40.0000	42
	96 Methyl Acrylate	55	7.550	7.537	(0.842)	233554	20.0000	20
	44 o-Xylene	106	13.324	13.325	(1.055)	479289	20.0000	21
	42 Styrene	104	13.338	13.340	(1.056)	792840	20.0000	21
	31 Bromoform	173	13.575	13.577	(1.075)	1022129	20.0000	20
	110 Isopropylbenzene	105	13.709	13.710	(1.086)	1550263	20.0000	21
$	41 Bromofluorobenzene (SUR)	174	13.901	13.903	(0.921)	902856	20.0000	21
	36 1,1,2,2-Tetrachloroethane	83	13.990	13.992	(0.926)	599103	20.0000	20
	99 1,2,3-Trichloropropane	110	14.064	14.066	(0.931)	234277	20.0000	20
	107 Bromobenzene	156	14.079	14.080	(0.932)	788140	20.0000	20
	112 n-Propylbenzene	91	14.138	14.140	(0.936)	1546914	20.0000	20
	105 2-Chlorotoluene	91	14.271	14.273	(0.945)	1257498	20.0000	20
	102 1,3,5-Trimethylbenzene	105	14.301	14.302	(0.947)	1203089	20.0000	21
	106 4-Chlorotoluene	91	14.375	14.377	(0.952)	1272999	20.0000	20
	115 tert-Butylbenzene	119	14.656	14.658	(0.971)	1324915	20.0000	20
	100 1,2,4-Trimethylbenzene	105	14.700	14.702	(0.974)	1186175	20.0000	21
	114 sec-Butylbenzene	105	14.878	14.880	(0.985)	1526603	20.0000	20
	113 p-Isopropyltoluene	119	15.011	15.013	(0.994)	1368063	20.0000	20
	67 1,3-Dichlorobenzene	146	15.041	15.043	(0.996)	988002	20.0000	20
*	91 1,4-Dichlorobenzene-d4	152	15.100	15.102	(1.000)	1664701	50.0000	
	68 1,4-Dichlorobenzene	146	15.130	15.132	(1.002)	1107667	20.0000	20
	117 Benzyl chloride	91	15.233	15.235	(1.009)	810068	20.0000	20
	111 n-Butylbenzene	91	15.426	15.428	(1.022)	1052978	20.0000	20
	69 1,2-Dichlorobenzene	146	15.515	15.516	(1.027)	897205	20.0000	19
	101 1,2-Dibromo-3-chloropropane	75	16.270	16.271	(1.077)	171531	20.0000	18
	93 1,2,4-Trichlorobenzene	180	17.143	17.145	(1.135)	843748	20.0000	19
	94 Hexachlorobutadiene	225	17.291	17.293	(1.145)	724627	20.0000	19
	70 Naphthalene	128	17.424	17.426	(1.154)	862662	20.0000	19
	98 1,2,3-Trichlorobenzene	180	17.676	17.678	(1.171)	751888	20.0000	19
M	14 1,2-Dichloroethene (total)	100				908772	40.0000	39
M	45 Xylene (Total)	100				1456426	60.0000	64

QC Flag Legend

T - Target compound detected outside RT window.
H - Operator selected an alternate compound hit.

Data File: /chem/VOAHS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21243.d
Date : 22-NOV-2002 12:15
Client ID:
Sample Info: BSTD020

Instrument:
Operator:
Column phase: DB624
Column diameter:



/chem/VOAHS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21243.d

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21246.d
Report Date: 22-Nov-2002 15:25

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21246.d
Lab Smp Id: BSTD050
Inj Date : 22-NOV-2002 13:44
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BSTD050
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/8260H_02.m
Meth Date : 22-Nov-2002 15:24 ken Quant Type: ISTD
Cal Date : 22-NOV-2002 13:44 Cal File: b21246.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpd2

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
90 Dichlorodifluoromethane	85	2.785	2.785	(0.310)	1746061	50.0000	50
1 Chloromethane	50	3.081	3.081	(0.343)	437316	50.0000	47
4 Vinyl Chloride	62	3.259	3.259	(0.363)	480561	50.0000	46
3 Bromomethane	94	3.733	3.733	(0.416)	761514	50.0000	48
5 Chloroethane	64	3.881	3.881	(0.432)	313132	50.0000	47
9 Trichlorofluoromethane	101	4.280	4.280	(0.477)	3253311	50.0000	48
121 n-Pentane	72	4.384	4.384	(0.489)	104959	50.0000	48
46 Ethyl Ether	59	4.724	4.724	(0.526)	420943	50.0000	48
119 Isoprene	67	4.724	4.724	(0.526)	601172	50.0000	47
47 Acrolein	56	4.887	4.887	(0.545)	116034	300.000	300
48 Freon TF	101	5.021	5.021	(0.560)	2299254	50.0000	48
10 1,1-Dichloroethene	96	5.021	5.021	(0.560)	872548	50.0000	45
7 Acetone	43	5.109	5.109	(0.569)	172301	50.0000	46
8 Carbon Disulfide	76	5.361	5.361	(0.597)	1774243	50.0000	48

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21246.d
Report Date: 22-Nov-2002 15:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
50 Acetonitrile	41	5.509	5.509	(0.614)	1557452	1000.00	970
116 Allyl chloride	76	5.509	5.509	(0.614)	388388	50.0000	51
131 Methyl Acetate	43	5.539	5.539	(0.617)	540262	50.0000	49
6 Methylene Chloride	84	5.672	5.672	(0.632)	813006	50.0000	46
51 TBA	59	5.835	5.835	(0.650)	1084941	1000.00	980
52 Acrylonitrile	53	5.983	5.983	(0.667)	353451	150.000	140
53 MTBE	73	6.057	6.057	(0.675)	2111522	50.0000	48
12 trans-1,2-Dichloroethene	96	6.057	6.057	(0.675)	1021203	50.0000	47
11 1,1-Dichloroethane	63	6.619	6.619	(0.738)	1658853	50.0000	49
57 Vinyl Acetate	43	6.664	6.664	(0.743)	2483597	50.0000	50
55 DIPE	45	6.693	6.693	(0.746)	2260386	50.0000	48
122 Allyl alcohol	57	6.649	6.649	(0.741)	272178	3000.00	2700
18 2-Butanone	72	7.419	7.419	(0.827)	67389	50.0000	48
13 cis-1,2-Dichloroethene	96	7.419	7.419	(0.827)	1097320	50.0000	47
104 2,2-Dichloropropane	77	7.419	7.419	(0.827)	1961851	50.0000	46
56 Ethyl Acetate	43	7.463	7.463	(0.832)	1548092	100.000	98
108 Bromochloromethane	128	7.744	7.744	(0.863)	1029409	50.0000	48
15 Chloroform	83	7.833	7.833	(0.873)	2584244	50.0000	47
20 1,1,1-Trichloroethane	97	8.129	8.129	(0.906)	2860206	50.0000	46
59 Cyclohexane	56	8.248	8.248	(0.919)	949194	50.0000	48
92 1,1-Dichloropropene	75	8.351	8.351	(0.931)	1464498	50.0000	47
21 Carbon Tetrachloride	117	8.381	8.381	(0.934)	3081447	50.0000	48
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.529	8.529	(0.950)	1649910	50.0000	49
61 Isopropyl Acetate	43	8.633	8.633	(0.962)	2883523	100.000	98
17 1,2-Dichloroethane	62	8.633	8.633	(0.962)	1842246	50.0000	48
28 Benzene	78	8.633	8.633	(0.962)	1880694	50.0000	46
* 19 Fluorobenzene	96	8.973	8.973	(1.000)	2880080	50.0000	
25 Trichloroethene	95	9.462	9.462	(1.054)	1489672	50.0000	47
132 Methyl Cyclohexane	83	9.728	9.728	(1.084)	1085934	50.0000	48
23 1,2-Dichloropropane	63	9.728	9.728	(1.084)	833461	50.0000	46
120 Methyl methacrylate	69	9.817	9.817	(1.094)	475721	50.0000	47
64 Propyl Acetate	43	9.876	9.876	(1.101)	1916897	100.000	93
95 1,4-Dioxane	88	9.891	9.891	(1.102)	321945	3000.00	2700
109 Dibromomethane	93	9.891	9.891	(1.102)	1376564	50.0000	46
22 Bromodichloromethane	83	10.054	10.054	(1.120)	2538349	50.0000	46
30 2-Chloroethyl Vinyl Ether	63	10.394	10.394	(1.158)	368326	50.0000	42
118 Epichlorohydrin	57	10.483	10.483	(1.168)	1338269	1000.00	920
24 cis-1,3-Dichloropropene	75	10.616	10.616	(1.183)	1468683	50.0000	47
33 4-Methyl-2-Pentanone	43	10.750	10.750	(1.198)	585983	50.0000	47
$ 37 Toluene-d8 (SUR)	98	10.957	10.957	(0.868)	2128988	50.0000	52
38 Toluene	91	11.046	11.046	(0.875)	2322312	50.0000	50
29 trans-1,3-Dichloropropene	75	11.253	11.253	(0.891)	1481503	50.0000	52
27 1,1,2-Trichloroethane	83	11.475	11.475	(0.909)	779571	50.0000	51
103 1,3-Dichloropropane	76	11.682	11.682	(0.925)	1295608	50.0000	52
35 Tetrachloroethene	166	11.697	11.697	(0.926)	2145409	50.0000	50
34 2-Hexanone	43	11.727	11.727	(0.928)	375743	50.0000	32
65 Butyl Acetate	43	11.845	11.845	(0.938)	2117260	100.000	100

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21246.d
Report Date: 22-Nov-2002 15:25

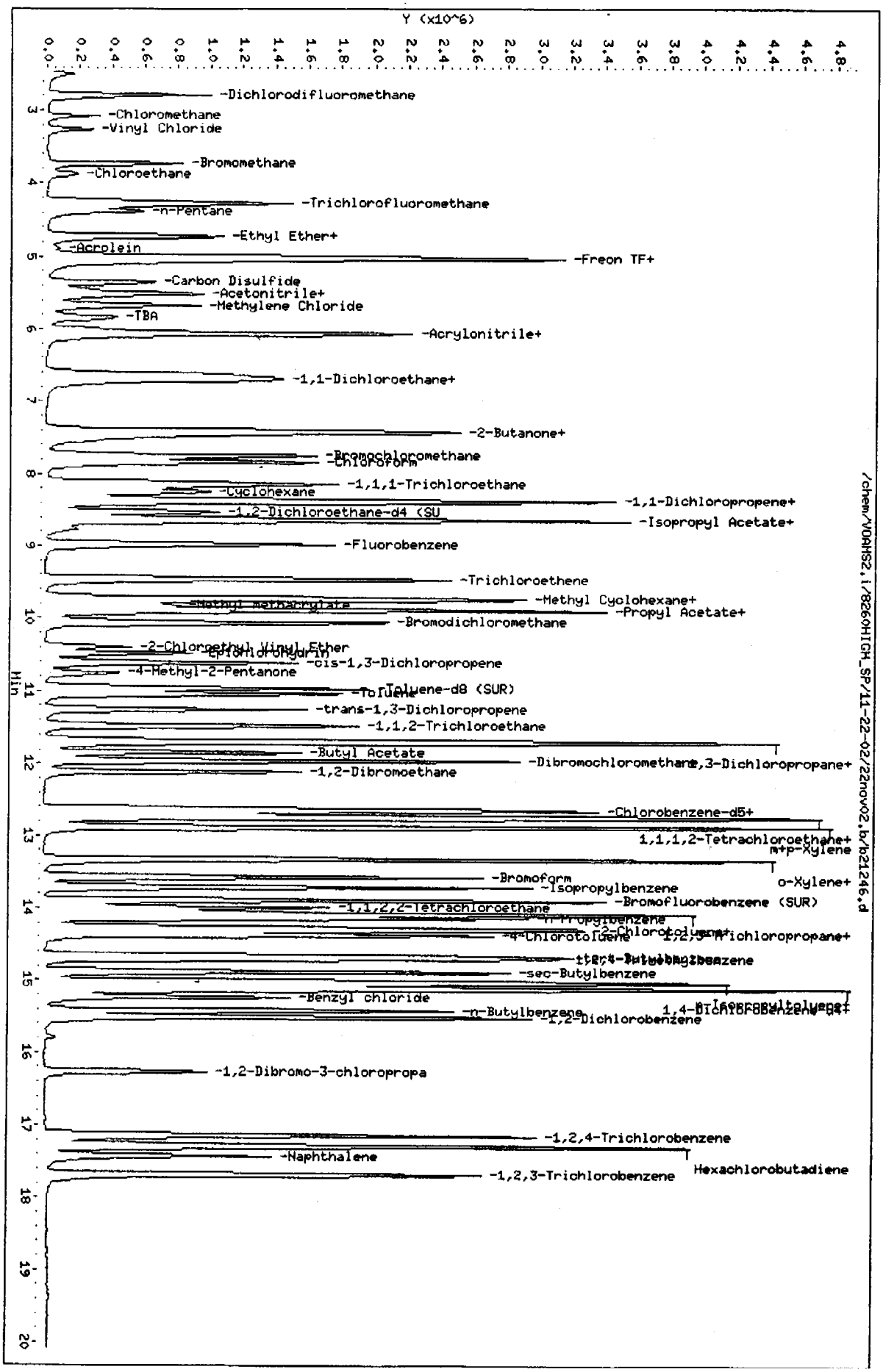
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	26 Dibromochloromethane	129	11.963	11.963	(0.947)	2786784	50.0000	53
	66 1,2-Dibromoethane	107	12.112	12.112	(0.959)	1884273	50.0000	52
*	32 Chlorobenzene-d5	117	12.630	12.630	(1.000)	2360170	50.0000	
	39 Chlorobenzene	112	12.659	12.659	(1.002)	2191045	50.0000	51
	97 1,1,1,2-Tetrachloroethane	131	12.733	12.733	(1.008)	1721993	50.0000	52
	40 Ethylbenzene	106	12.763	12.763	(1.011)	872485	50.0000	43
	43 m+p-Xylene	106	12.881	12.881	(1.020)	2170204	100.000	100
	96 Methyl Acrylate	55	7.537	7.537	(0.840)	565020	50.0000	50
	44 o-Xylene	106	13.325	13.325	(1.055)	1051102	50.0000	51
	42 Styrene	104	13.340	13.340	(1.056)	1784474	50.0000	53
	31 Bromoform	173	13.577	13.577	(1.075)	2435252	50.0000	53
	110 Isopropylbenzene	105	13.710	13.710	(1.086)	3455974	50.0000	52
$	41 Bromofluorobenzene (SUR)	174	13.903	13.903	(0.921)	1994294	50.0000	47
	36 1,1,2,2-Tetrachloroethane	83	13.992	13.992	(0.926)	1307785	50.0000	46
	99 1,2,3-Trichloropropane	110	14.066	14.066	(0.931)	515678	50.0000	47
	107 Bromobenzene	156	14.080	14.080	(0.932)	1721734	50.0000	46
	112 n-Propylbenzene	91	14.140	14.140	(0.936)	3477431	50.0000	46
	105 2-Chlorotoluene	91	14.273	14.273	(0.945)	2843716	50.0000	47
	102 1,3,5-Trimethylbenzene	105	14.302	14.302	(0.947)	2552703	50.0000	47
	106 4-Chlorotoluene	91	14.377	14.377	(0.952)	2873328	50.0000	46
	115 tert-Butylbenzene	119	14.658	14.658	(0.971)	2998827	50.0000	47
	100 1,2,4-Trimethylbenzene	105	14.702	14.702	(0.974)	2524702	50.0000	47
	114 sec-Butylbenzene	105	14.880	14.880	(0.985)	3480074	50.0000	47
	113 p-Isopropyltoluene	119	15.013	15.013	(0.994)	3000632	50.0000	46
	67 1,3-Dichlorobenzene	146	15.043	15.043	(0.996)	2225616	50.0000	48
*	91 1,4-Dichlorobenzene-d4	152	15.102	15.102	(1.000)	1592183	50.0000	
	68 1,4-Dichlorobenzene	146	15.132	15.132	(1.002)	2486496	50.0000	46
	117 Benzyl chloride	91	15.235	15.235	(1.009)	1727184	50.0000	46
	111 n-Butylbenzene	91	15.428	15.428	(1.022)	2452695	50.0000	48
	69 1,2-Dichlorobenzene	146	15.516	15.516	(1.027)	2171795	50.0000	48
	101 1,2-Dibromo-3-chloropropane	75	16.271	16.271	(1.077)	450383	50.0000	50
	93 1,2,4-Trichlorobenzene	180	17.145	17.145	(1.135)	2023158	50.0000	48
	94 Hexachlorobutadiene	225	17.293	17.293	(1.145)	1806916	50.0000	48
	70 Naphthalene	128	17.426	17.426	(1.154)	2112462	50.0000	50
	98 1,2,3-Trichlorobenzene	180	17.678	17.678	(1.171)	1784434	50.0000	48
M	14 1,2-Dichloroethene (total)	100				2118523	100.000	94
M	45 Xylene (Total)	100				3221306	150.000	150

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21246.d
Date : 22-NOV-2002 13:44
Client ID:
Sample Info: BSTD050

Column phase: DB624

Instrument: VOAMS2.i

Operator: VOAMS 4
Column diameter: 0.53



Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21245.d
Report Date: 22-Nov-2002 15:23

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21245.d
Lab Smp Id: BSTD100
Inj Date : 22-NOV-2002 13:14
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BSTD100
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/8260H_02.m
Meth Date : 22-Nov-2002 15:15 ken Quant Type: ISTD
Cal Date : 22-NOV-2002 13:14 Cal File: b21245.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpd2

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
90 Dichlorodifluoromethane	85	2.799	2.785	(0.311)	3016973	100.000	90
1 Chloromethane	50	3.081	3.081	(0.343)	829595	100.000	93
4 Vinyl Chloride	62	3.273	3.259	(0.364)	928236	100.000	93
3 Bromomethane	94	3.747	3.733	(0.417)	1469167	100.000	96
5 Chloroethane	64	3.880	3.881	(0.432)	619109	100.000	97
9 Trichlorofluoromethane	101	4.280	4.280	(0.476)	6186441	100.000	96
121 n-Pentane	72	4.398	4.384	(0.489)	184190	100.000	88
46 Ethyl Ether	59	4.724	4.724	(0.526)	785702	100.000	93
119 Isoprene	67	4.739	4.724	(0.527)	1082893	100.000	88
47 Acrolein	56	4.887	4.887	(0.544)	153055	400.000	420
48 Freon TF	101	5.020	5.021	(0.559)	4102736	100.000	89
10 1,1-Dichloroethene	96	5.035	5.021	(0.560)	1806249	100.000	98
7 Acetone	43	5.109	5.109	(0.568)	306659	100.000	86
8 Carbon Disulfide	76	5.360	5.361	(0.596)	3233510	100.000	90

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21245.d
Report Date: 22-Nov-2002 15:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
50 Acetonitrile	41	5.508	5.509	(0.613)	2701220	2000.00	1800
116 Allyl chloride	76	5.508	5.361	(0.613)	623133	100.000	49(H)
131 Methyl Acetate	43	5.538	5.539	(0.616)	1066896	100.000	100
6 Methylene Chloride	84	5.671	5.672	(0.631)	1670056	100.000	100
51 TBA	59	5.834	5.835	(0.649)	2180681	2000.00	2000
52 Acrylonitrile	53	5.982	5.983	(0.666)	501902	200.000	210
53 MTBE	73	6.071	6.057	(0.676)	4026733	100.000	96
12 trans-1,2-Dichloroethene	96	6.056	6.057	(0.674)	2091610	100.000	100
11 1,1-Dichloroethane	63	6.619	6.619	(0.736)	3190324	100.000	99
57 Vinyl Acetate	43	6.678	6.664	(0.743)	4442832	100.000	94
55 DIPE	45	6.708	6.693	(0.746)	4190783	100.000	92
122 Allyl alcohol	57	6.634	6.649	(0.738)	450276	4000.00	4700
18 2-Butanone	72	7.418	7.419	(0.825)	143329	100.000	110
13 cis-1,2-Dichloroethene	96	7.418	7.419	(0.825)	2244979	100.000	100
104 2,2-Dichloropropane	77	7.418	7.419	(0.825)	4197520	100.000	100
56 Ethyl Acetate	43	7.477	7.463	(0.832)	2952891	200.000	200
108 Bromochloromethane	128	7.744	7.744	(0.862)	2106059	100.000	100
15 Chloroform	83	7.833	7.833	(0.872)	5458645	100.000	100
20 1,1,1-Trichloroethane	97	8.144	8.129	(0.906)	6186352	100.000	100
59 Cyclohexane	56	8.247	8.248	(0.918)	1688411	100.000	88
92 1,1-Dichloropropene	75	8.366	8.351	(0.931)	3040053	100.000	100
21 Carbon Tetrachloride	117	8.380	8.381	(0.932)	6399134	100.000	100
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.528	8.529	(0.949)	3278903	100.000	100
61 Isopropyl Acetate	43	8.632	8.633	(0.960)	5495986	200.000	200
17 1,2-Dichloroethane	62	8.632	8.633	(0.960)	3852476	100.000	100
28 Benzene	78	8.632	8.633	(0.960)	3774414	100.000	97
* 19 Fluorobenzene	96	8.987	8.973	(1.000)	2758777	50.0000	(T)
25 Trichloroethene	95	9.461	9.462	(1.053)	3060915	100.000	100
132 Methyl Cyclohexane	83	9.742	9.728	(1.084)	1972135	100.000	92
23 1,2-Dichloropropane	63	9.742	9.728	(1.084)	1709256	100.000	99
120 Methyl methacrylate	69	9.816	9.817	(1.092)	998863	100.000	100
64 Propyl Acetate	43	9.876	9.876	(1.099)	3750697	200.000	190
95 1,4-Dioxane	88	9.890	9.891	(1.100)	482072	4000.00	4200
109 Dibromomethane	93	9.890	9.891	(1.100)	3067331	100.000	110
22 Bromodichloromethane	83	10.068	10.054	(1.120)	5818870	100.000	110
30 2-Chloroethyl Vinyl Ether	63	10.394	10.394	(1.156)	978993	100.000	120
118 Epichlorohydrin	57	10.483	10.483	(1.166)	2809490	2000.00	2000
24 cis-1,3-Dichloropropene	75	10.616	10.616	(1.181)	3005917	100.000	100
33 4-Methyl-2-Pentanone	43	10.764	10.750	(1.198)	1173754	100.000	99
$ 37 Toluene-d8 (SUR)	98	10.956	10.957	(0.868)	4040080	100.000	100
38 Toluene	91	11.045	11.046	(0.875)	4691018	100.000	110
29 trans-1,3-Dichloropropene	75	11.252	11.253	(0.891)	3128775	100.000	120
27 1,1,2-Trichloroethane	83	11.474	11.475	(0.909)	1625573	100.000	110
103 1,3-Dichloropropane	76	11.682	11.682	(0.925)	2640140	100.000	110
35 Tetrachloroethene	166	11.711	11.697	(0.927)	4182662	100.000	100
34 2-Hexanone	43	11.726	11.727	(0.928)	745396	100.000	69
65 Butyl Acetate	43	11.844	11.845	(0.938)	4189617	200.000	220

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21245.d
Report Date: 22-Nov-2002 15:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	26 Dibromochloromethane	129	11.963	11.963	(0.947)	5838774	100.000	120
	66 1,2-Dibromoethane	107	12.111	12.112	(0.959)	3900762	100.000	120
*	32 Chlorobenzene-d5	117	12.629	12.630	(1.000)	2208200	50.0000	
	39 Chlorobenzene	112	12.659	12.659	(1.002)	4373467	100.000	110
	97 1,1,1,2-Tetrachloroethane	131	12.733	12.733	(1.008)	3520267	100.000	110
	40 Ethylbenzene	106	12.762	12.763	(1.011)	1708425	100.000	90
	43 m+p-Xylene	106	12.881	12.881	(1.020)	4253741	200.000	220
	96 Methyl Acrylate	55	7.537	7.537	(0.839)	1166005	100.000	110
	44 o-Xylene	106	13.325	13.325	(1.055)	2076259	100.000	110
	42 Styrene	104	13.340	13.340	(1.056)	3564354	100.000	110
	31 Bromoform	173	13.577	13.577	(1.075)	5367057	100.000	120
	110 Isopropylbenzene	105	13.710	13.710	(1.086)	6829709	100.000	110
$	41 Bromofluorobenzene (SUR)	174	13.902	13.903	(0.921)	3752898	100.000	96
	36 1,1,2,2-Tetrachloroethane	83	13.991	13.992	(0.926)	2680285	100.000	100
	99 1,2,3-Trichloropropane	110	14.065	14.066	(0.931)	1055736	100.000	100
	107 Bromobenzene	156	14.080	14.080	(0.932)	3375864	100.000	98
	112 n-Propylbenzene	91	14.139	14.140	(0.936)	6919096	100.000	100
	105 2-Chlorotoluene	91	14.272	14.273	(0.945)	5541884	100.000	100
	102 1,3,5-Trimethylbenzene	105	14.302	14.302	(0.947)	4871439	100.000	96
	106 4-Chlorotoluene	91	14.376	14.377	(0.952)	5733240	100.000	99
	115 tert-Butylbenzene	119	14.657	14.658	(0.971)	5904599	100.000	100
	100 1,2,4-Trimethylbenzene	105	14.702	14.702	(0.974)	4805293	100.000	96
	114 sec-Butylbenzene	105	14.879	14.880	(0.985)	6885297	100.000	100
	113 p-Isopropyltoluene	119	15.012	15.013	(0.994)	5829496	100.000	98
	67 1,3-Dichlorobenzene	146	15.042	15.043	(0.996)	4364036	100.000	100
*	91 1,4-Dichlorobenzene-d4	152	15.101	15.102	(1.000)	1473308	50.0000	
	68 1,4-Dichlorobenzene	146	15.131	15.132	(1.002)	4858962	100.000	98
	117 Benzyl chloride	91	15.235	15.235	(1.009)	3457543	100.000	100
	111 n-Butylbenzene	91	15.427	15.428	(1.022)	4683462	100.000	98
	69 1,2-Dichlorobenzene	146	15.516	15.516	(1.027)	4252291	100.000	100
	101 1,2-Dibromo-3-chloropropane	75	16.271	16.271	(1.077)	983624	100.000	120
	93 1,2,4-Trichlorobenzene	180	17.144	17.145	(1.135)	3932715	100.000	100
	94 Hexachlorobutadiene	225	17.292	17.293	(1.145)	3520426	100.000	100
	70 Naphthalene	128	17.426	17.426	(1.154)	4255569	100.000	110
	98 1,2,3-Trichlorobenzene	180	17.677	17.678	(1.171)	3455550	100.000	100
M	14 1,2-Dichloroethene (total)	100				4336589	200.000	200
M	45 Xylene (Total)	100				6330000	300.000	320

QC Flag Legend

T - Target compound detected outside RT window.
H - Operator selected an alternate compound hit.

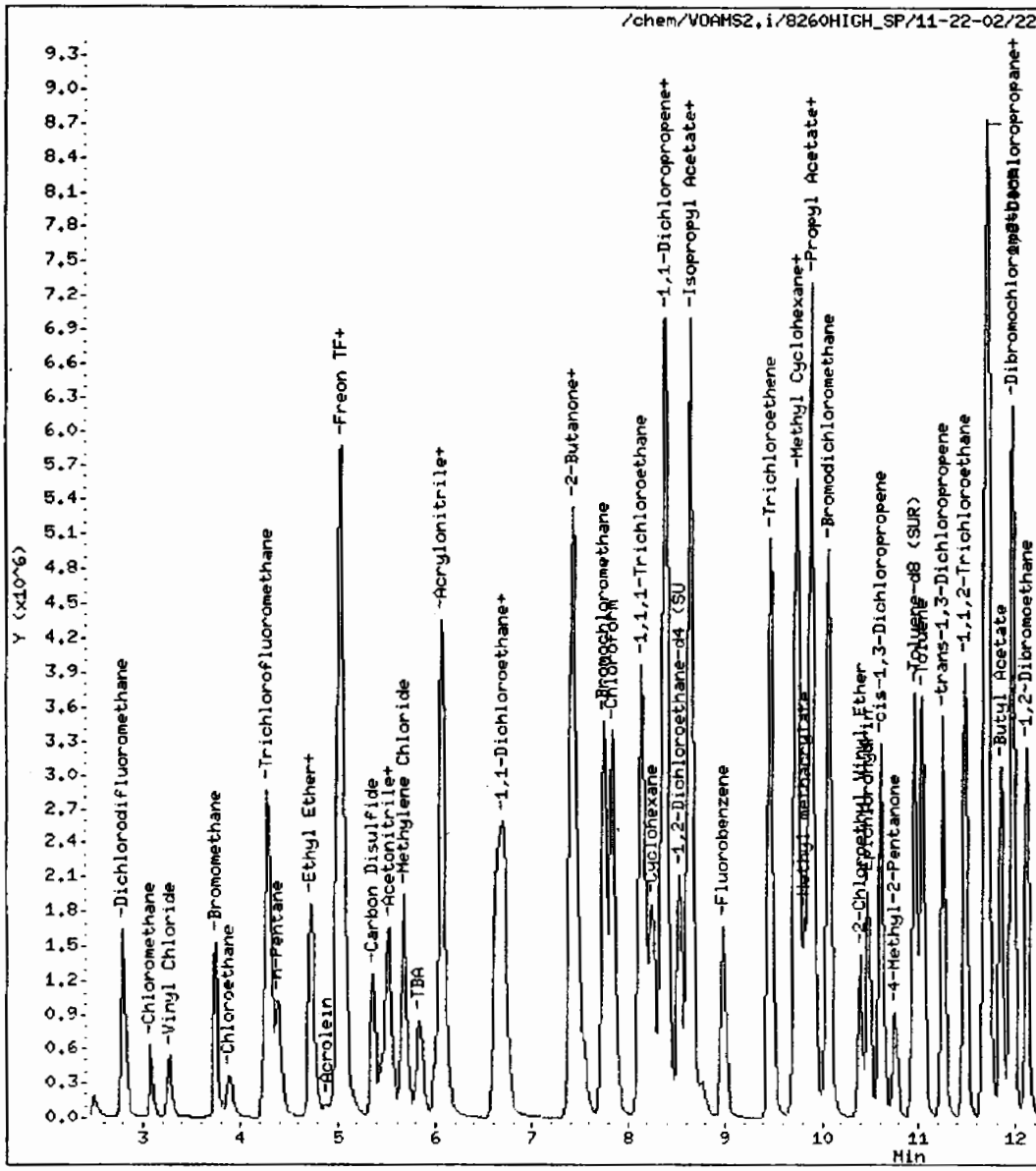
Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21245.d
Date : 22-NOV-2002 13:14
Client ID:
Sample Info: BSTD100

Column phase: DB624

Instrume

Operator

Column d



Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21244.d
Report Date: 22-Nov-2002 15:26

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21244.d
Lab Smp Id: BSTD200
Inj Date : 22-NOV-2002 12:45
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BSTD200
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/8260H_02.m
Meth Date : 22-Nov-2002 15:24 ken Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpd2

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

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)
90 Dichlorodifluoromethane	85	2.799	2.785	(0.311)	6377449	200.000	190
1 Chloromethane	50	3.080	3.081	(0.343)	1722648	200.000	190
4 Vinyl Chloride	62	3.273	3.259	(0.364)	2017668	200.000	200(A)
3 Bromomethane	94	3.732	3.733	(0.415)	2900520	200.000	190
5 Chloroethane	64	3.880	3.881	(0.432)	1194227	200.000	190
9 Trichlorofluoromethane	101	4.265	4.280	(0.475)	12380862	200.000	190
121 n-Pentane	72	4.368	4.384	(0.486)	399390	200.000	190
46 Ethyl Ether	59	4.723	4.724	(0.526)	1652250	200.000	190
119 Isoprene	67	4.723	4.724	(0.526)	2391426	200.000	190
47 Acrolein	56	4.901	4.887	(0.545)	196012	500.000	530(A)
48 Freon TF	101	5.020	5.021	(0.559)	8703582	200.000	190
10 1,1-Dichloroethene	96	5.020	5.021	(0.559)	3502807	200.000	190
7 Acetone	43	5.123	5.109	(0.570)	641853	200.000	180
8 Carbon Disulfide	76	5.345	5.361	(0.595)	7096961	200.000	200

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21244.d
Report Date: 22-Nov-2002 15:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
50 Acetonitrile	41	5.508	5.509	(0.613)	5975713	4000.00	3900
116 Allyl chloride	76	5.508	5.509	(0.613)	1530052	200.000	210(A)
131 Methyl Acetate	43	5.552	5.539	(0.618)	2181093	200.000	210(A)
6 Methylene Chloride	84	5.671	5.672	(0.631)	3256321	200.000	190
51 TBA	59	5.863	5.835	(0.652)	4217108	4000.00	4000
52 Acrylonitrile	53	5.997	5.983	(0.667)	649439	250.000	270(A)
53 MTBE	73	6.071	6.057	(0.675)	8231647	200.000	200
12 trans-1,2-Dichloroethene	96	6.056	6.057	(0.674)	4069145	200.000	190
11 1,1-Dichloroethane	63	6.618	6.619	(0.736)	6140463	200.000	190
57 Vinyl Acetate	43	6.678	6.664	(0.743)	9119197	200.000	190
55 DIPE	45	6.707	6.693	(0.746)	8721746	200.000	190
122 Allyl alcohol	57	6.663	6.649	(0.741)	539939	5000.00	5600(A)
18 2-Butanone	72	7.418	7.419	(0.825)	271862	200.000	200(A)
13 cis-1,2-Dichloroethene	96	7.418	7.419	(0.825)	4236199	200.000	190
104 2,2-Dichloropropane	77	7.418	7.419	(0.825)	8004332	200.000	190
56 Ethyl Acetate	43	7.477	7.463	(0.832)	5885690	400.000	390
108 Bromochloromethane	128	7.743	7.744	(0.862)	3982275	200.000	190
15 Chloroform	83	7.832	7.833	(0.872)	10272453	200.000	190
20 1,1,1-Trichloroethane	97	8.143	8.129	(0.906)	11686608	200.000	200
59 Cyclohexane	56	8.247	8.248	(0.918)	3525973	200.000	180
92 1,1-Dichloropropene	75	8.365	8.351	(0.931)	5576504	200.000	190
21 Carbon Tetrachloride	117	8.380	8.381	(0.932)	11957367	200.000	190
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.528	8.529	(0.949)	6424476	200.000	200
61 Isopropyl Acetate	43	8.646	8.633	(0.962)	10590847	400.000	380
17 1,2-Dichloroethane	62	8.632	8.633	(0.960)	7114504	200.000	190
28 Benzene	78	8.632	8.633	(0.960)	6877129	200.000	180
* 19 Fluorobenzene	96	8.987	8.973	(1.000)	2773914	50.0000	(T)
25 Trichloroethene	95	9.461	9.462	(1.053)	5650428	200.000	180
132 Methyl Cyclohexane	83	9.742	9.728	(1.084)	3761328	200.000	170
23 1,2-Dichloropropane	63	9.727	9.728	(1.082)	2879282	200.000	170
120 Methyl methacrylate	69	9.831	9.817	(1.094)	1850616	200.000	190
64 Propyl Acetate	43	9.890	9.876	(1.100)	6638948	400.000	340
95 1,4-Dioxane	88	9.905	9.891	(1.102)	507896	5000.00	4400
109 Dibromomethane	93	9.890	9.891	(1.100)	5128667	200.000	180
22 Bromodichloromethane	83	10.068	10.054	(1.120)	9975130	200.000	190
30 2-Chloroethyl Vinyl Ether	63	10.393	10.394	(1.156)	1873727	200.000	220(A)
118 Epichlorohydrin	57	10.482	10.483	(1.166)	4804558	4000.00	3400
24 cis-1,3-Dichloropropene	75	10.615	10.616	(1.181)	5549234	200.000	180
33 4-Methyl-2-Pentanone	43	10.763	10.750	(1.198)	2222912	200.000	190
$ 37 Toluene-d8 (SUR)	98	10.956	10.957	(0.860)	7956925	200.000	190
38 Toluene	91	11.045	11.046	(0.867)	8703662	200.000	190
29 trans-1,3-Dichloropropene	75	11.252	11.253	(0.884)	5803800	200.000	200(A)
27 1,1,2-Trichloroethane	83	11.474	11.475	(0.901)	2870417	200.000	190
103 1,3-Dichloropropane	76	11.681	11.682	(0.917)	4592922	200.000	180
35 Tetrachloroethene	166	11.711	11.697	(0.920)	7562009	200.000	180
34 2-Hexanone	43	11.726	11.727	(0.921)	1315246	200.000	180(H)
65 Butyl Acetate	43	11.844	11.845	(0.930)	7699041	400.000	380

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21244.d
Report Date: 22-Nov-2002 15:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
26 Dibromochloromethane	129	11.963	11.963	(0.940)	10281223	200.000	190
66 1,2-Dibromoethane	107	12.111	12.112	(0.951)	6810068	200.000	190
* 32 Chlorobenzene-d5	117	12.629	12.630	(1.000)	2197590	50.0000	(H)
39 Chlorobenzene	112	12.658	12.659	(0.994)	7900329	200.000	180
97 1,1,1,2-Tetrachloroethane	131	12.732	12.733	(1.000)	6169959	200.000	180
40 Ethylbenzene	106	12.762	12.763	(1.002)	3025560	200.000	170(H)
43 m+p-Xylene	106	12.880	12.881	(1.012)	7443938	400.000	350
96 Methyl Acrylate	55	7.536	7.537	(0.839)	2247976	200.000	210(A)
44 o-Xylene	106	13.324	13.325	(1.046)	3624822	200.000	180
42 Styrene	104	13.339	13.340	(1.048)	6301943	200.000	180
31 Bromoform	173	13.576	13.577	(1.066)	9287884	200.000	200(A)
110 Isopropylbenzene	105	13.709	13.710	(1.077)	12038552	200.000	180
$ 41 Bromofluorobenzene (SUR)	174	13.902	13.903	(0.921)	6966454	200.000	200
36 1,1,2,2-Tetrachloroethane	83	13.991	13.992	(0.926)	4459128	200.000	190
99 1,2,3-Trichloropropane	110	14.065	14.066	(0.931)	1712985	200.000	190
107 Bromobenzene	156	14.079	14.080	(0.932)	5797499	200.000	190
112 n-Propylbenzene	91	14.139	14.140	(0.936)	12074925	200.000	190
105 2-Chlorotoluene	91	14.272	14.273	(0.945)	9573828	200.000	190
102 1,3,5-Trimethylbenzene	105	14.302	14.302	(0.947)	8275523	200.000	180
106 4-Chlorotoluene	91	14.376	14.377	(0.952)	9888256	200.000	190
115 tert-Butylbenzene	119	14.672	14.658	(0.972)	10053918	200.000	190
100 1,2,4-Trimethylbenzene	105	14.701	14.702	(0.974)	8067621	200.000	180
114 sec-Butylbenzene	105	14.879	14.880	(0.985)	11859896	200.000	190
113 p-Isopropyltoluene	119	15.012	15.013	(0.994)	9812846	200.000	180
67 1,3-Dichlorobenzene	146	15.042	15.043	(0.996)	7178883	200.000	180
* 91 1,4-Dichlorobenzene-d4	152	15.101	15.102	(1.000)	1331290	50.0000	
68 1,4-Dichlorobenzene	146	15.131	15.132	(1.002)	8094264	200.000	180
117 Benzyl chloride	91	15.234	15.235	(1.009)	6197167	200.000	200
111 n-Butylbenzene	91	15.427	15.428	(1.022)	7978308	200.000	180
69 1,2-Dichlorobenzene	146	15.515	15.516	(1.027)	6915235	200.000	180
101 1,2-Dibromo-3-chloropropane	75	16.270	16.271	(1.077)	1449285	200.000	190
93 1,2,4-Trichlorobenzene	180	17.144	17.145	(1.135)	6511008	200.000	190
94 Hexachlorobutadiene	225	17.292	17.293	(1.145)	5878997	200.000	190
70 Naphthalene	128	17.425	17.426	(1.154)	6439318	200.000	180
98 1,2,3-Trichlorobenzene	180	17.677	17.678	(1.171)	5652065	200.000	180
M 14 1,2-Dichloroethene (total)	100				8305345	400.000	380
M 45 Xylene (Total)	100				11068760	600.000	530

QC Flag Legend

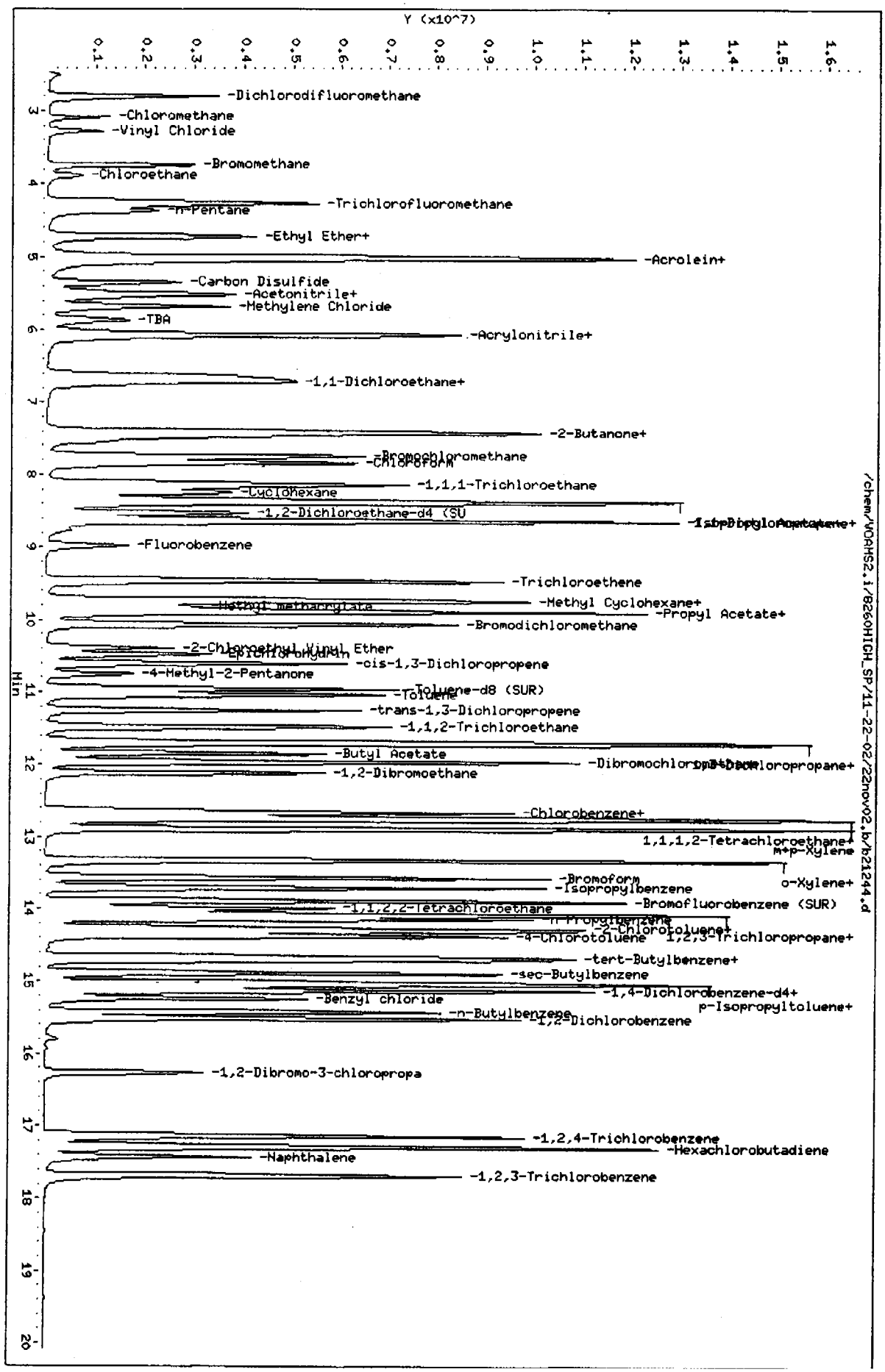
T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: /chem/VOAHS2.i/8260HIGH_SP/11-22-02/22nov02.b/b21244.d
Date : 22-NOV-2002 12:45
Client ID:
Sample Info: BSTD200

Column phase: DB624

Instrument: VOAHS2.i

Operator: VOAHS 4
Column diameter: 0.53



VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/24/02 Time: 1111

Lab File ID: B21266 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.162	0.167	0.1	-3.1	50.0
Bromomethane	0.276	0.264		4.3	50.0
Vinyl Chloride	0.180	0.186		-3.3	20.0
Chloroethane	0.115	0.122		-6.1	50.0
Methylene Chloride	0.303	0.286		5.6	50.0
Acetone	0.065	0.060		7.7	50.0
Carbon Disulfide	0.648	0.653		-0.8	50.0
Trichlorofluoromethane	1.164	1.137		2.3	50.0
1,1-Dichloroethene	0.334	0.306		8.4	20.0
1,1-Dichloroethane	0.584	0.574	0.1	1.7	50.0
trans-1,2-Dichloroethene	0.380	0.361		5.0	50.0
cis-1,2-Dichloroethene	0.402	0.382		5.0	50.0
Chloroform	0.957	0.900		6.0	20.0
1,2-Dichloroethane	0.670	0.596		11.0	50.0
2-Butanone	0.024	0.022		8.3	50.0
1,1,1-Trichloroethane	1.068	0.974		8.8	50.0
Carbon Tetrachloride	1.119	1.032		7.8	50.0
Bromodichloromethane	0.967	0.935		3.3	50.0
1,2-Dichloropropane	0.312	0.292		6.4	20.0
cis-1,3-Dichloropropene	0.542	0.554		-2.2	50.0
Trichloroethene	0.548	0.525		4.2	50.0
Dibromochloromethane	1.211	1.137		6.1	50.0
1,1,2-Trichloroethane	0.349	0.316		9.4	50.0
Benzene	0.705	0.674		4.4	50.0
trans-1,3-Dichloropropene	0.654	0.603		7.8	50.0
2-Chloroethyl Vinyl Ether	0.152	0.164		-7.9	50.0
Bromoform	1.052	0.964	0.1	8.4	50.0
4-Methyl-2-Pentanone	0.215	0.197		8.4	50.0
2-Hexanone	0.169	0.142		16.0	50.0
Tetrachloroethene	0.971	0.909		6.4	50.0
1,1,2,2-Tetrachloroethane	0.888	0.707	0.3	20.4	50.0
Toluene	1.062	0.995		6.3	20.0
Chlorobenzene	0.978	0.933	0.3	4.6	50.0
Ethylbenzene	0.394	0.378		4.1	20.0
Styrene	0.773	0.798		-3.2	50.0
Xylene (Total)	0.474	0.471		0.6	50.0
Ethyl Ether	0.153	0.145		5.2	50.0

page 1 of 4

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/24/02 Time: 1111

Lab File ID: B21266 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Acrolein	0.007	0.009		-28.6	50.0
Freon TF	0.832	0.818		1.7	50.0
Isopropanol					50.0
Acetonitrile	0.028	0.027		3.6	50.0
TBA	0.019	0.017		10.5	50.0
Acrylonitrile	0.042	0.063		-50.0	50.0
MTBE	0.761	0.676		11.2	50.0
Hexane					50.0
DIPE	0.821	0.755		8.0	50.0
Ethyl Acetate	0.274	0.238		13.1	50.0
Vinyl Acetate	0.860	0.843		2.0	50.0
Tetrahydrofuran					50.0
Cyclohexane	0.347	0.347		0.0	50.0
Isobutanol					50.0
Isopropyl Acetate	0.508	0.449		11.6	50.0
n-Heptane					50.0
n-Butanol					50.0
Propyl Acetate	0.356	0.322		9.6	50.0
Butyl Acetate	0.466	0.405		13.1	50.0
1,2-Dibromoethane	0.827	0.758		8.3	50.0
1,3-Dichlorobenzene	1.470	1.410		4.1	50.0
1,4-Dichlorobenzene	1.679	1.579		6.0	50.0
1,2-Dichlorobenzene	1.419	1.347		5.1	50.0
Naphthalene	1.335	1.242		7.0	50.0
Methylnaphthalene (total)					50.0
Dimethylnaphthalene (total)					50.0
Dichlorodifluoromethane	0.610	0.658		-7.9	50.0
1,1-Dichloropropene	0.538	0.514		4.5	50.0
1,2,4-Trichlorobenzene	1.314	1.256		4.4	50.0
Hexachlorobutadiene	1.177	1.090		7.4	50.0
1,4-Dioxane	0.002	0.003		-50.0	50.0
Methyl Acrylate	0.194	0.168		13.4	50.0
1,1,1,2-Tetrachloroethane	0.756	0.710		6.1	50.0
1,2,3-Trichlorobenzene	1.162	1.078		7.2	50.0
1,2,3-Trichloropropane	0.342	0.279		18.4	50.0
1,2,4-Trimethylbenzene	1.693	1.647		2.7	50.0
1,2-Dibromo-3-chloropropane	0.281	0.243		13.5	50.0

page 2 of 4

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/24/02 Time: 1111

Lab File ID: B21266 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,3,5-Trimethylbenzene	1.717	1.674		2.5	50.0
1,3-Dichloropropane	0.572	0.530		7.3	50.0
2,2-Dichloropropane	0.743	0.711		4.3	50.0
2-Chlorotoluene	1.881	1.732		7.9	50.0
4-Chlorotoluene	1.969	1.817		7.7	50.0
Bromobenzene	1.167	1.006		13.8	50.0
Bromochloromethane	0.374	0.345		7.8	50.0
Dibromomethane	0.519	0.486		6.4	50.0
Isopropylbenzene	1.526	1.497		1.9	50.0
n-Butylbenzene	1.612	1.627		-0.9	50.0
n-Propylbenzene	2.346	2.187		6.8	50.0
p-Isopropyltoluene	2.026	1.969		2.8	50.0
sec-Butylbenzene	2.341	2.203		5.9	50.0
tert-Butylbenzene	2.007	1.840		8.3	50.0
Allyl chloride	0.133	0.135		-1.5	50.0
Benzyl chloride	1.174	1.139		3.0	50.0
Epichlorohydrin	0.025	0.025		0.0	50.0
Isoprene	0.222	0.225		-1.4	50.0
Methyl methacrylate	0.175	0.159		9.1	50.0
n-Pentane	0.038	0.042		-10.5	50.0
Allyl alcohol	0.002	0.002		0.0	50.0
2-Octanol					50.0
2-Octanone					50.0
Ethyl Acrylate					50.0
Butyl Acrylate					50.0
Butyl Methacrylate					50.0
Ethyl methacrylate					50.0
Ethanol					50.0
Methyl Acetate	0.190	0.153		19.5	50.0
Methyl Cyclohexane	0.389	0.396		-1.8	50.0
Cyclohexanone					50.0
p-Ethyltoluene					50.0
1,4-Diethylbenzene					50.0
1,2,4,5-Tetramethylbenzene					50.0
Propylene Oxide					50.0
Camphene (total)					50.0
Camphor					50.0

page 3 of 4

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/24/02 Time: 1111

Lab File ID: B21266 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Amyl Acetate					50.0
2-Methylnaphthalene					50.0
1-Chlorohexane					50.0
Chlorotrifluoromethane					50.0
Chlorodifluoromethane					50.0
tert-Amylmethyl Ether					50.0
Iodomethane					50.0
trans-1,4-Dichloro-2-butene					50.0
1,3,5-Trichlorobenzene					40.0
1,2-Dichloroethane-d4 (SUR)	0.581	0.541		6.9	50.0
Toluene-d8 (SUR)	0.935	0.888		5.0	50.0
Bromofluorobenzene (SUR)	1.324	1.169		11.7	50.0

page 4 of 4

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21266.d
Report Date: 24-Nov-2002 15:15

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21266.d
Lab Smp Id: BSTD328
Inj Date : 24-NOV-2002 11:11
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BSTD328
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

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)
90 Dichlorodifluoromethane	85	2.727	2.727	(0.307)	2106588	50.0000	54
1 Chloromethane	50	3.008	3.008	(0.339)	535273	50.0000	52
4 Vinyl Chloride	62	3.186	3.186	(0.359)	595401	50.0000	52
3 Bromomethane	94	3.660	3.660	(0.412)	847188	50.0000	48
5 Chloroethane	64	3.808	3.808	(0.429)	390900	50.0000	53
9 Trichlorofluoromethane	101	4.193	4.193	(0.472)	3640581	50.0000	49
121 n-Pentane	72	4.311	4.311	(0.485)	134917	50.0000	55
46 Ethyl Ether	59	4.637	4.637	(0.522)	464546	50.0000	47
119 Isoprene	67	4.637	4.637	(0.522)	719523	50.0000	51
47 Acrolein	56	4.799	4.799	(0.540)	177060	300.000	420
48 Freon TF	101	4.933	4.933	(0.555)	2618893	50.0000	49
10 1,1-Dichloroethene	96	4.933	4.933	(0.555)	979312	50.0000	46
7 Acetone	43	5.022	5.022	(0.565)	191077	50.0000	46
8 Carbon Disulfide	76	5.258	5.258	(0.592)	2092800	50.0000	50
50 Acetonitrile	41	5.406	5.406	(0.608)	1741593	1000.00	980

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21266.d
Report Date: 24-Nov-2002 15:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
116 Allyl chloride	76	5.421	5.421	(0.610)	433944	50.0000	51
131 Methyl Acetate	43	5.451	5.451	(0.613)	490540	50.0000	40
6 Methylene Chloride	84	5.569	5.569	(0.627)	914624	50.0000	47
51 TBA	59	5.747	5.747	(0.647)	1090202	1000.00	880
52 Acrylonitrile	53	5.880	5.880	(0.662)	605586	150.000	220
53 MTBE	73	5.969	5.969	(0.672)	2164463	50.0000	44
12 trans-1,2-Dichloroethene	96	5.954	5.954	(0.670)	1156832	50.0000	48
11 1,1-Dichloroethane	63	6.517	6.517	(0.733)	1839811	50.0000	49
57 Vinyl Acetate	43	6.561	6.561	(0.738)	2699342	50.0000	49
55 DIPE	45	6.606	6.606	(0.743)	2419640	50.0000	46
122 Allyl alcohol	57	6.546	6.546	(0.737)	471460	3000.00	4200
18 2-Butanone	72	7.316	7.316	(0.823)	69061	50.0000	44
13 cis-1,2-Dichloroethene	96	7.301	7.301	(0.822)	1223522	50.0000	48
104 2,2-Dichloropropane	77	7.316	7.316	(0.823)	2276258	50.0000	48
56 Ethyl Acetate	43	7.375	7.375	(0.830)	1523339	100.000	87
108 Bromochloromethane	128	7.642	7.642	(0.860)	1104496	50.0000	46
15 Chloroform	83	7.731	7.731	(0.870)	2883048	50.0000	47
20 1,1,1-Trichloroethane	97	8.027	8.027	(0.903)	3121420	50.0000	46
59 Cyclohexane	56	8.145	8.145	(0.917)	1112836	50.0000	50
92 1,1-Dichloropropene	75	8.249	8.249	(0.928)	1647215	50.0000	48
21 Carbon Tetrachloride	117	8.278	8.278	(0.932)	3307402	50.0000	46
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.426	8.426	(0.948)	1732256	50.0000	46
61 Isopropyl Acetate	43	8.545	8.545	(0.962)	2876005	100.000	88
17 1,2-Dichloroethane	62	8.530	8.530	(0.960)	1908372	50.0000	44
28 Benzene	78	8.530	8.530	(0.960)	2158624	50.0000	48
* 19 Fluorobenzene	96	8.885	8.885	(1.000)	3202988	50.0000	
25 Trichloroethene	95	9.359	9.359	(1.053)	1681284	50.0000	48
132 Methyl Cyclohexane	83	9.640	9.640	(1.085)	1269489	50.0000	51
23 1,2-Dichloropropane	63	9.640	9.640	(1.085)	934056	50.0000	47
120 Methyl methacrylate	69	9.729	9.729	(1.095)	510394	50.0000	45
64 Propyl Acetate	43	9.788	9.788	(1.102)	2066137	100.000	90
95 1,4-Dioxane	88	9.803	9.803	(1.103)	580409	3000.00	4400
109 Dibromomethane	93	9.788	9.788	(1.102)	1556222	50.0000	47
22 Bromodichloromethane	83	9.966	9.966	(1.122)	2993708	50.0000	48
30 2-Chloroethyl Vinyl Ether	63	10.306	10.306	(1.160)	526107	50.0000	54
118 Epichlorohydrin	57	10.395	10.395	(1.170)	1601296	1000.00	1000
24 cis-1,3-Dichloropropene	75	10.514	10.514	(1.183)	1776238	50.0000	51
33 4-Methyl-2-Pentanone	43	10.677	10.677	(1.202)	629926	50.0000	46
$ 37 Toluene-d8 (SUR)	98	10.869	10.869	(0.867)	2541832	50.0000	48
38 Toluene	91	10.943	10.943	(0.873)	2846325	50.0000	47
29 trans-1,3-Dichloropropene	75	11.165	11.165	(0.890)	1724054	50.0000	46
27 1,1,2-Trichloroethane	83	11.387	11.387	(0.908)	904345	50.0000	45
103 1,3-Dichloropropane	76	11.594	11.594	(0.924)	1515532	50.0000	46
35 Tetrachloroethene	166	11.609	11.609	(0.926)	2600751	50.0000	47
34 2-Hexanone	43	11.639	11.639	(0.928)	405225	50.0000	42
65 Butyl Acetate	43	11.757	11.757	(0.937)	2317382	100.000	87
26 Dibromochloromethane	129	11.876	11.876	(0.947)	3253790	50.0000	47

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21266.d
Report Date: 24-Nov-2002 15:15

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	66	1,2-Dibromoethane	107	12.024	12.024	(0.959)	2169152	50.0000	46
*	32	Chlorobenzene-d5	117	12.542	12.542	(1.000)	2860888	50.0000	
	39	Chlorobenzene	112	12.571	12.571	(1.002)	2669812	50.0000	48
	97	1,1,1,2-Tetrachloroethane	131	12.645	12.645	(1.008)	2032101	50.0000	47
	40	Ethylbenzene	106	12.675	12.675	(1.011)	1082431	50.0000	48
	43	m+p-Xylene	106	12.794	12.794	(1.020)	2720572	100.000	99
	96	Methyl Acrylate	55	7.435	7.435	(0.837)	536740	50.0000	43
	44	o-Xylene	106	13.238	13.238	(1.055)	1319123	50.0000	50
	42	Styrene	104	13.252	13.252	(1.057)	2282185	50.0000	52
	31	Bromoform	173	13.489	13.489	(1.076)	2758841	50.0000	46
	110	Isopropylbenzene	105	13.623	13.623	(1.086)	4283232	50.0000	49
$	41	Bromofluorobenzene (SUR)	174	13.815	13.815	(0.920)	2452290	50.0000	44
	36	1,1,2,2-Tetrachloroethane	83	13.904	13.904	(0.926)	1482829	50.0000	40
	99	1,2,3-Trichloropropane	110	13.978	13.978	(0.931)	586282	50.0000	41
	107	Bromobenzene	156	13.993	13.993	(0.932)	2109954	50.0000	43
	112	n-Propylbenzene	91	14.052	14.052	(0.936)	4588494	50.0000	47
	105	2-Chlorotoluene	91	14.185	14.185	(0.945)	3633475	50.0000	46
	102	1,3,5-Trimethylbenzene	105	14.215	14.215	(0.947)	3510924	50.0000	49
	106	4-Chlorotoluene	91	14.289	14.289	(0.952)	3812567	50.0000	46
	115	tert-Butylbenzene	119	14.570	14.570	(0.970)	3860653	50.0000	46
	100	1,2,4-Trimethylbenzene	105	14.614	14.614	(0.973)	3454505	50.0000	49
	114	sec-Butylbenzene	105	14.792	14.792	(0.985)	4620840	50.0000	47
	113	p-Isopropyltoluene	119	14.925	14.925	(0.994)	4130973	50.0000	48
	67	1,3-Dichlorobenzene	146	14.955	14.955	(0.996)	2956945	50.0000	48
*	91	1,4-Dichlorobenzene-d4	152	15.014	15.014	(1.000)	2097707	50.0000	
	68	1,4-Dichlorobenzene	146	15.044	15.044	(1.002)	3312918	50.0000	47
	117	Benzyl chloride	91	15.147	15.147	(1.009)	2389249	50.0000	48
	111	n-Butylbenzene	91	15.340	15.340	(1.022)	3412532	50.0000	50
	69	1,2-Dichlorobenzene	146	15.429	15.429	(1.028)	2826403	50.0000	47
	101	1,2-Dibromo-3-chloropropane	75	16.169	16.169	(1.077)	510622	50.0000	43
	93	1,2,4-Trichlorobenzene	180	17.042	17.042	(1.135)	2634659	50.0000	48
	94	Hexachlorobutadiene	225	17.190	17.190	(1.145)	2286868	50.0000	46
	70	Naphthalene	128	17.323	17.323	(1.154)	2605379	50.0000	46
	98	1,2,3-Trichlorobenzene	180	17.575	17.575	(1.171)	2262538	50.0000	46
M	14	1,2-Dichloroethene (total)	100				2380354	100.000	95
M	45	Xylene (Total)	100				4039695	150.000	150

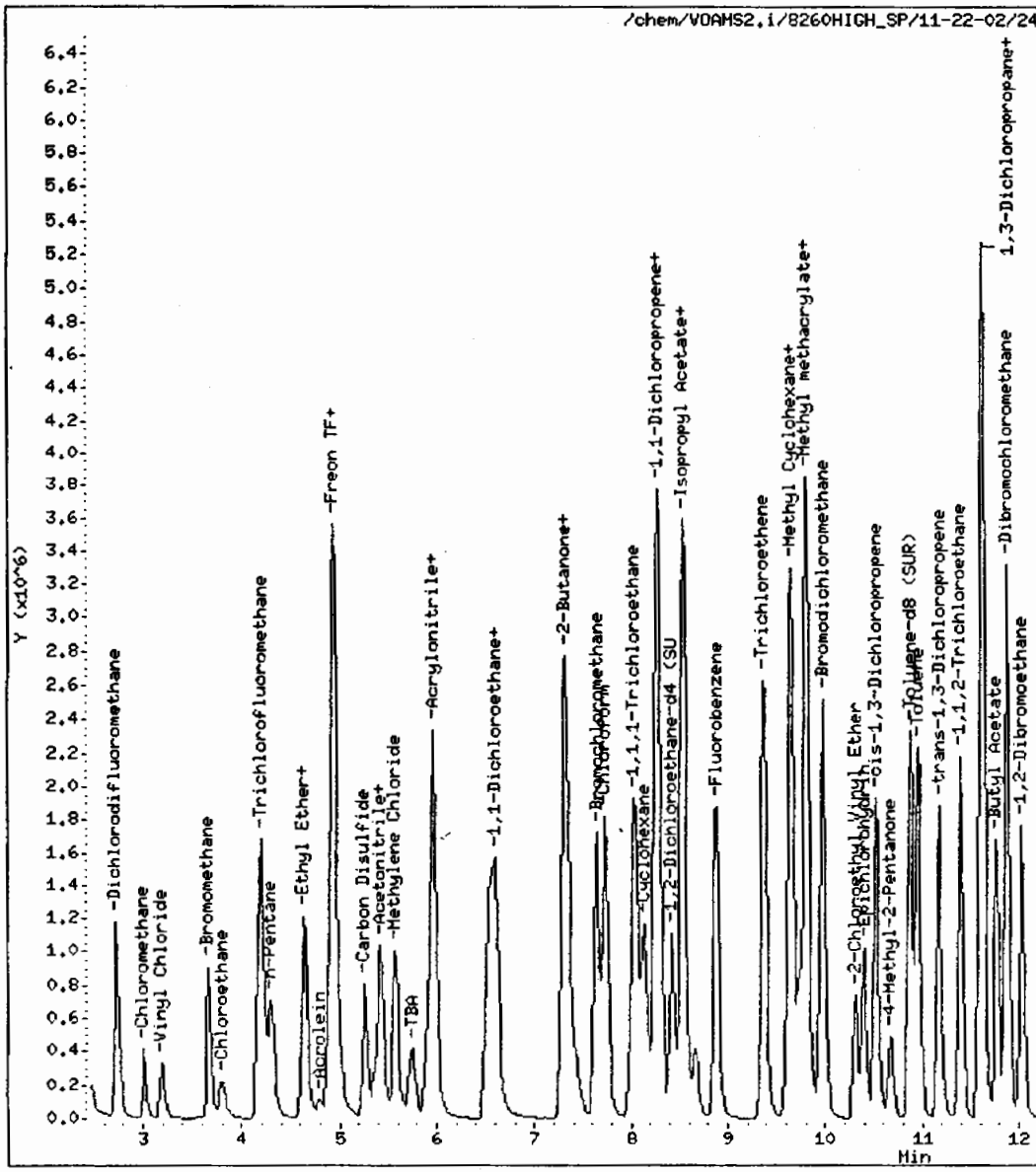
Data File: /chem/VOAHS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21266.d
Date : 24-NOV-2002 11:11
Client ID:
Sample Info: BSTD328

Column phase: DB624

Instrume

Operator

Column d



VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/25/02 Time: 0851

Lab File ID: B21286 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.162	0.170	0.1	-4.9	50.0
Bromomethane	0.276	0.271		1.8	50.0
Vinyl Chloride	0.180	0.194		-7.8	20.0
Chloroethane	0.115	0.120		-4.3	50.0
Methylene Chloride	0.303	0.288		5.0	50.0
Acetone	0.065	0.049		24.6	50.0
Carbon Disulfide	0.648	0.668		-3.1	50.0
Trichlorofluoromethane	1.164	1.219		-4.7	50.0
1,1-Dichloroethene	0.334	0.310		7.2	20.0
1,1-Dichloroethane	0.584	0.566	0.1	3.1	50.0
trans-1,2-Dichloroethene	0.380	0.367		3.4	50.0
cis-1,2-Dichloroethene	0.402	0.380		5.5	50.0
Chloroform	0.957	0.909		5.0	20.0
1,2-Dichloroethane	0.670	0.606		9.6	50.0
2-Butanone	0.024	0.022		8.3	50.0
1,1,1-Trichloroethane	1.068	1.012		5.2	50.0
Carbon Tetrachloride	1.119	1.085		3.0	50.0
Bromodichloromethane	0.967	0.944		2.4	50.0
1,2-Dichloropropane	0.312	0.286		8.3	20.0
cis-1,3-Dichloropropene	0.542	0.536		1.1	50.0
Trichloroethene	0.548	0.521		4.9	50.0
Dibromochloromethane	1.211	1.173		3.1	50.0
1,1,2-Trichloroethane	0.349	0.322		7.7	50.0
Benzene	0.705	0.663		6.0	50.0
trans-1,3-Dichloropropene	0.654	0.614		6.1	50.0
2-Chloroethyl Vinyl Ether	0.152	0.170		-11.8	50.0
Bromoform	1.052	0.966	0.1	8.2	50.0
4-Methyl-2-Pentanone	0.215	0.190		11.6	50.0
2-Hexanone	0.169	0.143		15.4	50.0
Tetrachloroethene	0.971	0.953		1.8	50.0
1,1,2,2-Tetrachloroethane	0.888	0.704	0.3	20.7	50.0
Toluene	1.062	1.025		3.5	20.0
Chlorobenzene	0.978	0.934	0.3	4.5	50.0
Ethylbenzene	0.394	0.382		3.0	20.0
Styrene	0.773	0.785		-1.6	50.0
Xylene (Total)	0.474	0.471		0.6	50.0
Ethyl Ether	0.153	0.153		0.0	50.0

page 1 of 4

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/25/02 Time: 0851

Lab File ID: B21286 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Acrolein	0.007	0.005		28.6	50.0
Freon TF	0.832	0.876		-5.3	50.0
Isopropanol					50.0
Acetonitrile	0.028	0.027		3.6	50.0
TBA	0.019	0.016		15.8	50.0
Acrylonitrile	0.042	0.040		4.8	50.0
MTBE	0.761	0.717		5.8	50.0
Hexane					50.0
DIPE	0.821	0.806		1.8	50.0
Ethyl Acetate	0.274	0.239		12.8	50.0
Vinyl Acetate	0.860	0.880		-2.3	50.0
Tetrahydrofuran					50.0
Cyclohexane	0.347	0.351		-1.2	50.0
Isobutanol					50.0
Isopropyl Acetate	0.508	0.455		10.4	50.0
n-Heptane					50.0
n-Butanol					50.0
Propyl Acetate	0.356	0.322		9.6	50.0
Butyl Acetate	0.466	0.426		8.6	50.0
1,2-Dibromoethane	0.827	0.772		6.6	50.0
1,3-Dichlorobenzene	1.470	1.355		7.8	50.0
1,4-Dichlorobenzene	1.679	1.595		5.0	50.0
1,2-Dichlorobenzene	1.419	1.324		6.7	50.0
Naphthalene	1.335	1.146		14.2	50.0
Methylnaphthalene (total)					50.0
Dimethylnaphthalene (total)					50.0
Dichlorodifluoromethane	0.610	0.684		-12.1	50.0
1,1-Dichloropropene	0.538	0.513		4.6	50.0
1,2,4-Trichlorobenzene	1.314	1.198		8.8	50.0
Hexachlorobutadiene	1.177	1.124		4.5	50.0
1,4-Dioxane	0.002	0.002		0.0	50.0
Methyl Acrylate	0.194	0.177		8.8	50.0
1,1,1,2-Tetrachloroethane	0.756	0.747		1.2	50.0
1,2,3-Trichlorobenzene	1.162	1.019		12.3	50.0
1,2,3-Trichloropropane	0.342	0.281		17.8	50.0
1,2,4-Trimethylbenzene	1.693	1.647		2.7	50.0
1,2-Dibromo-3-chloropropane	0.281	0.226		19.6	50.0

page 2 of 4

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/25/02 Time: 0851

Lab File ID: B21286 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,3,5-Trimethylbenzene	1.717	1.673		2.6	50.0
1,3-Dichloropropane	0.572	0.539		5.8	50.0
2,2-Dichloropropane	0.743	0.729		1.9	50.0
2-Chlorotoluene	1.881	1.689		10.2	50.0
4-Chlorotoluene	1.969	1.868		5.1	50.0
Bromobenzene	1.167	1.004		14.0	50.0
Bromochloromethane	0.374	0.348		7.0	50.0
Dibromomethane	0.519	0.487		6.2	50.0
Isopropylbenzene	1.526	1.519		0.4	50.0
n-Butylbenzene	1.612	1.640		-1.7	50.0
n-Propylbenzene	2.346	2.176		7.2	50.0
p-Isopropyltoluene	2.026	1.982		2.2	50.0
sec-Butylbenzene	2.341	2.214		5.4	50.0
tert-Butylbenzene	2.007	1.858		7.4	50.0
Allyl chloride	0.133	0.139		-4.5	50.0
Benzyl chloride	1.174	1.088		7.3	50.0
Epichlorohydrin	0.025	0.023		8.0	50.0
Isoprene	0.222	0.230		-3.6	50.0
Methyl methacrylate	0.175	0.162		7.4	50.0
n-Pentane	0.038	0.044		-15.8	50.0
Allyl alcohol	0.002	0.002		0.0	50.0
2-Octanol					50.0
2-Octanone					50.0
Ethyl Acrylate					50.0
Butyl Acrylate					50.0
Butyl Methacrylate					50.0
Ethyl methacrylate					50.0
Ethanol					50.0
Methyl Acetate	0.190	0.154		18.9	50.0
Methyl Cyclohexane	0.389	0.398		-2.3	50.0
Cyclohexanone					50.0
p-Ethyltoluene					50.0
1,4-Diethylbenzene					50.0
1,2,4,5-Tetramethylbenzene					50.0
Propylene Oxide					50.0
Camphene (total)					50.0
Camphor					50.0

page 3 of 4

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/25/02 Time: 0851

Lab File ID: B21286 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Amyl Acetate					50.0
2-Methylnaphthalene					50.0
1-Chlorohexane					50.0
Chlorotrifluoromethane					50.0
Chlorodifluoromethane					50.0
tert-Amylmethyl Ether					50.0
Iodomethane					50.0
trans-1,4-Dichloro-2-butene					50.0
1,3,5-Trichlorobenzene					40.0
1,2-Dichloroethane-d4 (SUR)	0.581	0.552		5.0	50.0
Toluene-d8 (SUR)	0.935	0.921		1.5	50.0
Bromofluorobenzene (SUR)	1.324	1.159		12.5	50.0

page 4 of 4

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21286.d
Report Date: 25-Nov-2002 16:45

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21286.d
Lab Smp Id: BSTD329
Inj Date : 25-NOV-2002 08:51
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BSTD329
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/8260H_02.m
Meth Date : 25-Nov-2002 16:35 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

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)
90 Dichlorodifluoromethane	85	2.727	2.727	(0.307)	1973618	50.0000	56
1 Chloromethane	50	3.008	3.008	(0.339)	491895	50.0000	53
4 Vinyl Chloride	62	3.186	3.186	(0.359)	558755	50.0000	54
3 Bromomethane	94	3.659	3.659	(0.413)	781767	50.0000	49
5 Chloroethane	64	3.792	3.792	(0.428)	347371	50.0000	52
9 Trichlorofluoromethane	101	4.192	4.192	(0.473)	3518329	50.0000	52
121 n-Pentane	72	4.311	4.311	(0.486)	128680	50.0000	59
46 Ethyl Ether	59	4.622	4.622	(0.521)	442670	50.0000	50
119 Isoprene	67	4.636	4.636	(0.523)	665446	50.0000	52
47 Acrolein	56	4.799	4.799	(0.541)	93963	300.000	240
48 Freon TF	101	4.932	4.932	(0.556)	2527147	50.0000	53
10 1,1-Dichloroethene	96	4.932	4.932	(0.556)	894165	50.0000	46
7 Acetone	43	5.006	5.006	(0.564)	140826	50.0000	38
8 Carbon Disulfide	76	5.258	5.258	(0.593)	1928842	50.0000	52
50 Acetonitrile	41	5.406	5.406	(0.609)	1548799	1000.00	970

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21286.d
Report Date: 25-Nov-2002 16:45

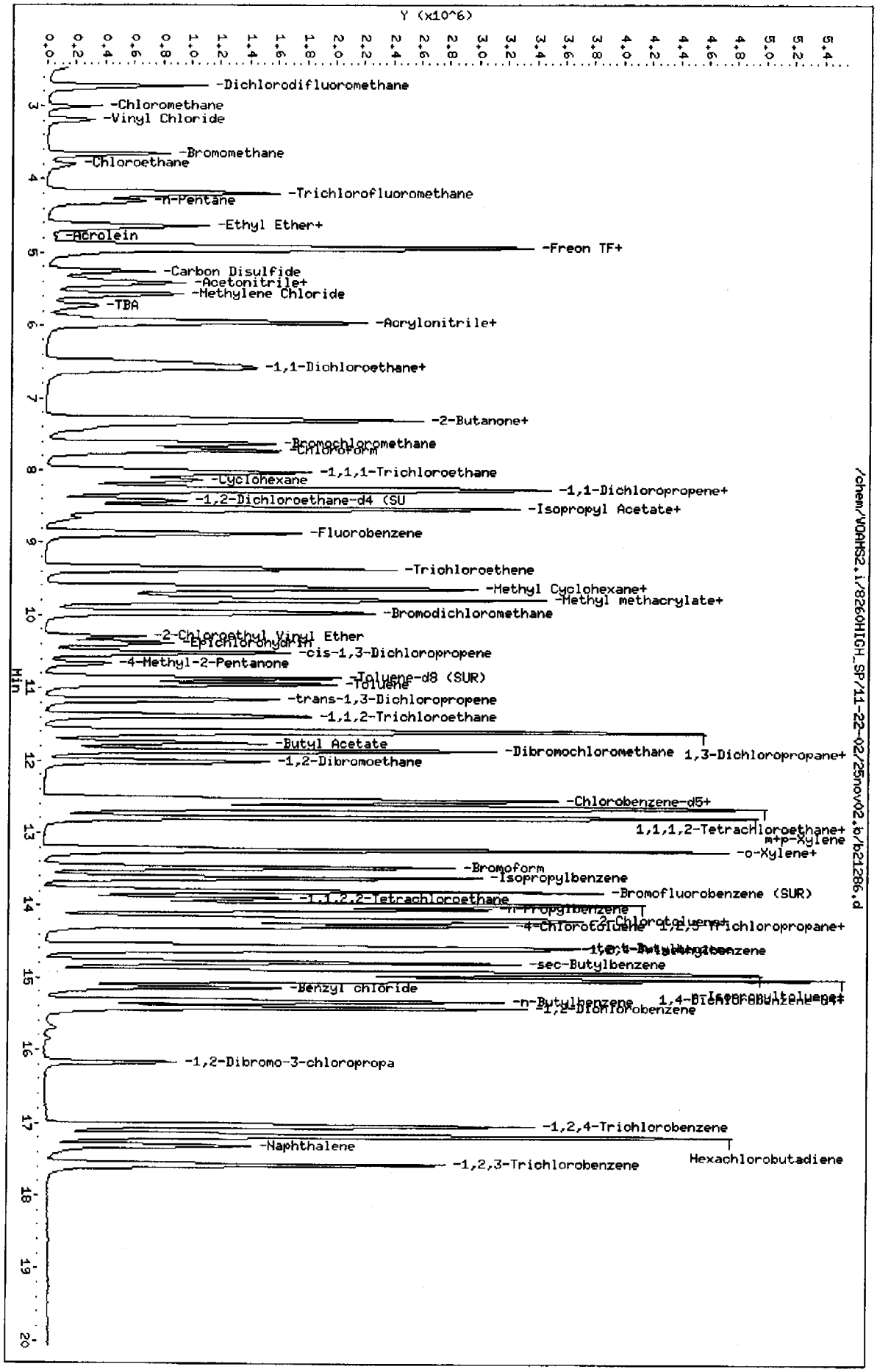
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
116 Allyl chloride	76	5.406	5.406	(0.609)	401458	50.0000	52
131 Methyl Acetate	43	5.436	5.436	(0.613)	445924	50.0000	40
6 Methylene Chloride	84	5.569	5.569	(0.628)	831563	50.0000	47
51 TBA	59	5.732	5.732	(0.646)	932169	1000.00	840
52 Acrylonitrile	53	5.880	5.880	(0.663)	342650	150.000	140
53 MTBE	73	5.954	5.954	(0.671)	2068875	50.0000	47
12 trans-1,2-Dichloroethene	96	5.954	5.954	(0.671)	1060008	50.0000	48
11 1,1-Dichloroethane	63	6.516	6.516	(0.735)	1634241	50.0000	48
57 Vinyl Acetate	43	6.561	6.561	(0.740)	2538278	50.0000	51
55 DIPE	45	6.590	6.590	(0.743)	2327532	50.0000	49
122 Allyl alcohol	57	6.531	6.531	(0.736)	261005	3000.00	2600
18 2-Butanone	72	7.301	7.301	(0.823)	63174	50.0000	45
13 cis-1,2-Dichloroethene	96	7.301	7.301	(0.823)	1095620	50.0000	47
104 2,2-Dichloropropane	77	7.301	7.301	(0.823)	2103196	50.0000	49
56 Ethyl Acetate	43	7.360	7.360	(0.830)	1381904	100.000	87
108 Bromochloromethane	128	7.627	7.627	(0.860)	1004032	50.0000	46
15 Chloroform	83	7.730	7.730	(0.871)	2623155	50.0000	47
20 1,1,1-Trichloroethane	97	8.026	8.026	(0.905)	2922053	50.0000	47
59 Cyclohexane	56	8.130	8.130	(0.917)	1013131	50.0000	51
92 1,1-Dichloropropene	75	8.248	8.248	(0.930)	1480999	50.0000	48
21 Carbon Tetrachloride	117	8.278	8.278	(0.933)	3131462	50.0000	48
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.411	8.411	(0.948)	1594456	50.0000	48
61 Isopropyl Acetate	43	8.530	8.530	(0.962)	2628184	100.000	90
17 1,2-Dichloroethane	62	8.515	8.515	(0.960)	1748360	50.0000	45
28 Benzene	78	8.530	8.530	(0.962)	1913888	50.0000	47
* 19 Fluorobenzene	96	8.870	8.870	(1.000)	2885785	50.0000	
25 Trichloroethene	95	9.359	9.359	(1.055)	1503665	50.0000	48
132 Methyl Cyclohexane	83	9.625	9.625	(1.085)	1149295	50.0000	51
23 1,2-Dichloropropane	63	9.625	9.625	(1.085)	825270	50.0000	46
120 Methyl methacrylate	69	9.729	9.729	(1.097)	467470	50.0000	46
64 Propyl Acetate	43	9.788	9.788	(1.103)	1856089	100.000	90
95 1,4-Dioxane	88	9.788	9.788	(1.103)	314630	3000.00	2600
109 Dibromomethane	93	9.788	9.788	(1.103)	1405516	50.0000	47
22 Bromodichloromethane	83	9.966	9.966	(1.123)	2724956	50.0000	49
30 2-Chloroethyl Vinyl Ether	63	10.291	10.291	(1.160)	490956	50.0000	56
118 Epichlorohydrin	57	10.380	10.380	(1.170)	1355619	1000.00	940
24 cis-1,3-Dichloropropene	75	10.513	10.513	(1.185)	1546909	50.0000	49
33 4-Methyl-2-Pentanone	43	10.661	10.661	(1.202)	550013	50.0000	44
$ 37 Toluene-d8 (SUR)	98	10.854	10.854	(0.866)	2272202	50.0000	49
38 Toluene	91	10.943	10.943	(0.874)	2527527	50.0000	48
29 trans-1,3-Dichloropropene	75	11.150	11.150	(0.890)	1515422	50.0000	47
27 1,1,2-Trichloroethane	83	11.387	11.387	(0.909)	794015	50.0000	46
103 1,3-Dichloropropane	76	11.579	11.579	(0.924)	1329466	50.0000	47
35 Tetrachloroethene	166	11.609	11.609	(0.927)	2351428	50.0000	49
34 2-Hexanone	43	11.624	11.624	(0.928)	352080	50.0000	42
65 Butyl Acetate	43	11.757	11.757	(0.939)	2099129	100.000	91
26 Dibromochloromethane	129	11.861	11.861	(0.947)	2892738	50.0000	48

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21286.d
Report Date: 25-Nov-2002 16:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
66 1,2-Dibromoethane	107	12.009	12.009	(0.959)	1903868	50.0000	47
* 32 Chlorobenzene-d5	117	12.527	12.527	(1.000)	2466343	50.0000	
39 Chlorobenzene	112	12.571	12.571	(1.004)	2303544	50.0000	48
97 1,1,1,2-Tetrachloroethane	131	12.645	12.645	(1.009)	1842706	50.0000	49
40 Ethylbenzene	106	12.660	12.660	(1.011)	941896	50.0000	48
43 m+p-Xylene	106	12.793	12.793	(1.021)	2341973	100.000	99
96 Methyl Acrylate	55	7.434	7.434	(0.838)	511486	50.0000	46
44 o-Xylene	106	13.237	13.237	(1.057)	1143908	50.0000	50
42 Styrene	104	13.237	13.237	(1.057)	1935357	50.0000	51
31 Bromoform	173	13.474	13.474	(1.076)	2383783	50.0000	46
110 Isopropylbenzene	105	13.622	13.622	(1.087)	3746810	50.0000	50
$ 41 Bromofluorobenzene (SUR)	174	13.800	13.800	(0.920)	2103730	50.0000	44
36 1,1,2,2-Tetrachloroethane	83	13.903	13.903	(0.927)	1277271	50.0000	40
99 1,2,3-Trichloropropane	110	13.963	13.963	(0.931)	510091	50.0000	41
107 Bromobenzene	156	13.992	13.992	(0.933)	1822978	50.0000	43
112 n-Propylbenzene	91	14.052	14.052	(0.937)	3948789	50.0000	46
105 2-Chlorotoluene	91	14.170	14.170	(0.945)	3065800	50.0000	45
102 1,3,5-Trimethylbenzene	105	14.214	14.214	(0.948)	3036371	50.0000	49
106 4-Chlorotoluene	91	14.274	14.274	(0.952)	3389075	50.0000	47
115 tert-Butylbenzene	119	14.570	14.570	(0.971)	3372810	50.0000	46
100 1,2,4-Trimethylbenzene	105	14.614	14.614	(0.974)	2989304	50.0000	49
114 sec-Butylbenzene	105	14.792	14.792	(0.986)	4018816	50.0000	47
113 p-Isopropyltoluene	119	14.910	14.910	(0.994)	3596812	50.0000	49
67 1,3-Dichlorobenzene	146	14.940	14.940	(0.996)	2458313	50.0000	46
* 91 1,4-Dichlorobenzene-d4	152	14.999	14.999	(1.000)	1814731	50.0000	
68 1,4-Dichlorobenzene	146	15.029	15.029	(1.002)	2894556	50.0000	47
117 Benzyl chloride	91	15.132	15.132	(1.009)	1975432	50.0000	46
111 n-Butylbenzene	91	15.325	15.325	(1.022)	2976421	50.0000	51
69 1,2-Dichlorobenzene	146	15.413	15.413	(1.028)	2401943	50.0000	47
101 1,2-Dibromo-3-chloropropane	75	16.168	16.168	(1.078)	411200	50.0000	40
93 1,2,4-Trichlorobenzene	180	17.027	17.027	(1.135)	2174377	50.0000	46
94 Hexachlorobutadiene	225	17.175	17.175	(1.145)	2040737	50.0000	48
70 Naphthalene	128	17.308	17.308	(1.154)	2080347	50.0000	43
98 1,2,3-Trichlorobenzene	180	17.575	17.575	(1.172)	1849998	50.0000	44
M 14 1,2-Dichloroethene (total)	100				2155628	100.000	96
M 45 Xylene (Total)	100				3485881	150.000	150

Data File: /chem/VOAHS2.i/8260HIGH_SP/11-22-02/25nov02.b/b21286.d
Date : 25-NOV-2002 08:51
Client ID:
Sample Info: BSTD329
Column phase: DB624

Instrument: VOAHS2.i
Operator: VOAHS 4
Column diameter: 0.53



VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/26/02 Time: 0819

Lab File ID: B21311 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.162	0.169	0.1	-4.3	50.0
Bromomethane	0.276	0.266		3.6	50.0
Vinyl Chloride	0.180	0.187		-3.9	20.0
Chloroethane	0.115	0.117		-1.7	50.0
Methylene Chloride	0.303	0.288		5.0	50.0
Acetone	0.065	0.050		23.1	50.0
Carbon Disulfide	0.648	0.694		-7.1	50.0
Trichlorofluoromethane	1.164	1.262		-8.4	50.0
1,1-Dichloroethene	0.334	0.308		7.8	20.0
1,1-Dichloroethane	0.584	0.561	0.1	3.9	50.0
trans-1,2-Dichloroethene	0.380	0.359		5.5	50.0
cis-1,2-Dichloroethene	0.402	0.380		5.5	50.0
Chloroform	0.957	0.908		5.1	20.0
1,2-Dichloroethane	0.670	0.609		9.1	50.0
2-Butanone	0.024	0.021		12.5	50.0
1,1,1-Trichloroethane	1.068	1.026		3.9	50.0
Carbon Tetrachloride	1.119	1.114		0.4	50.0
Bromodichloromethane	0.967	0.949		1.9	50.0
1,2-Dichloropropane	0.312	0.283		9.3	20.0
cis-1,3-Dichloropropene	0.542	0.528		2.6	50.0
Trichloroethene	0.548	0.513		6.4	50.0
Dibromochloromethane	1.211	1.144		5.5	50.0
1,1,2-Trichloroethane	0.349	0.317		9.2	50.0
Benzene	0.705	0.653		7.4	50.0
trans-1,3-Dichloropropene	0.654	0.594		9.2	50.0
2-Chloroethyl Vinyl Ether	0.152	0.172		-13.2	50.0
Bromoform	1.052	0.955	0.1	9.2	50.0
4-Methyl-2-Pentanone	0.215	0.196		8.8	50.0
2-Hexanone	0.169	0.144		14.8	50.0
Tetrachloroethene	0.971	0.923		4.9	50.0
1,1,2,2-Tetrachloroethane	0.888	0.689	0.3	22.4	50.0
Toluene	1.062	0.968		8.8	20.0
Chlorobenzene	0.978	0.894	0.3	8.6	50.0
Ethylbenzene	0.394	0.362		8.1	20.0
Styrene	0.773	0.738		4.5	50.0
Xylene (Total)	0.474	0.444		6.3	50.0
Ethyl Ether	0.153	0.154		-0.6	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/26/02 Time: 0819

Lab File ID: B21311 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Acrolein	0.007	0.005		28.6	50.0
Freon TF	0.832	0.911		-9.5	50.0
Isopropanol					50.0
Acetonitrile	0.028	0.027		3.6	50.0
TBA	0.019	0.016		15.8	50.0
Acrylonitrile	0.042	0.039		7.1	50.0
MTBE	0.761	0.723		5.0	50.0
Hexane					50.0
DIPE	0.821	0.818		0.4	50.0
Ethyl Acetate	0.274	0.246		10.2	50.0
Vinyl Acetate	0.860	0.875		-1.7	50.0
Tetrahydrofuran					50.0
Cyclohexane	0.347	0.354		-2.0	50.0
Isobutanol					50.0
Isopropyl Acetate	0.508	0.466		8.3	50.0
n-Heptane					50.0
n-Butanol					50.0
Propyl Acetate	0.356	0.321		9.8	50.0
Butyl Acetate	0.466	0.428		8.2	50.0
1,2-Dibromoethane	0.827	0.748		9.6	50.0
1,3-Dichlorobenzene	1.470	1.406		4.4	50.0
1,4-Dichlorobenzene	1.679	1.479		11.9	50.0
1,2-Dichlorobenzene	1.419	1.298		8.5	50.0
Naphthalene	1.335	1.093		18.1	50.0
Methylnaphthalene (total)					50.0
Dimethylnaphthalene (total)					50.0
Dichlorodifluoromethane	0.610	0.682		-11.8	50.0
1,1-Dichloropropene	0.538	0.507		5.8	50.0
1,2,4-Trichlorobenzene	1.314	1.165		11.3	50.0
Hexachlorobutadiene	1.177	1.096		6.9	50.0
1,4-Dioxane	0.002	0.002		0.0	50.0
Methyl Acrylate	0.194	0.174		10.3	50.0
1,1,1,2-Tetrachloroethane	0.756	0.729		3.6	50.0
1,2,3-Trichlorobenzene	1.162	1.012		12.9	50.0
1,2,3-Trichloropropane	0.342	0.279		18.4	50.0
1,2,4-Trimethylbenzene	1.693	1.574		7.0	50.0
1,2-Dibromo-3-chloropropane	0.281	0.229		18.5	50.0

page 2 of 4

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/26/02 Time: 0819

Lab File ID: B21311 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,3,5-Trimethylbenzene	1.717	1.614		6.0	50.0
1,3-Dichloropropane	0.572	0.511		10.7	50.0
2,2-Dichloropropane	0.743	0.726		2.3	50.0
2-Chlorotoluene	1.881	1.657		11.9	50.0
4-Chlorotoluene	1.969	1.830		7.0	50.0
Bromobenzene	1.167	0.995		14.7	50.0
Bromochloromethane	0.374	0.345		7.8	50.0
Dibromomethane	0.519	0.492		5.2	50.0
Isopropylbenzene	1.526	1.415		7.3	50.0
n-Butylbenzene	1.612	1.551		3.8	50.0
n-Propylbenzene	2.346	2.130		9.2	50.0
p-Isopropyltoluene	2.026	1.908		5.8	50.0
sec-Butylbenzene	2.341	2.126		9.2	50.0
tert-Butylbenzene	2.007	1.794		10.6	50.0
Allyl chloride	0.133	0.126		5.3	50.0
Benzyl chloride	1.174	1.094		6.8	50.0
Epichlorohydrin	0.025	0.024		4.0	50.0
Isoprene	0.222	0.235		-5.8	50.0
Methyl methacrylate	0.175	0.172		1.7	50.0
n-Pentane	0.038	0.044		-15.8	50.0
Allyl alcohol	0.002	0.001		50.0	50.0
2-Octanol					50.0
2-Octanone					50.0
Ethyl Acrylate					50.0
Butyl Acrylate					50.0
Butyl Methacrylate					50.0
Ethyl methacrylate					50.0
Ethanol					50.0
Methyl Acetate	0.190	0.160		15.8	50.0
Methyl Cyclohexane	0.389	0.400		-2.8	50.0
Cyclohexanone					50.0
p-Ethyltoluene					50.0
1,4-Diethylbenzene					50.0
1,2,4,5-Tetramethylbenzene					50.0
Propylene Oxide					50.0
Camphene (total)					50.0
Camphor					50.0

page 3 of 4

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS2 Calibration Date: 11/26/02 Time: 0819

Lab File ID: B21311 Init. Calib. Date(s): 11/22/02 11/22/02

Heated Purge: (Y/N) N Init. Calib. Times: 1103 1344

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Amyl Acetate					50.0
2-Methylnaphthalene					50.0
1-Chlorohexane					50.0
Chlorotrifluoromethane					50.0
Chlorodifluoromethane					50.0
tert-Amylmethyl Ether					50.0
Iodomethane					50.0
trans-1,4-Dichloro-2-butene					50.0
1,3,5-Trichlorobenzene					40.0
1,2-Dichloroethane-d4 (SUR)	0.581	0.560		3.6	50.0
Toluene-d8 (SUR)	0.935	0.878		6.1	50.0
Bromofluorobenzene (SUR)	1.324	1.174		11.3	50.0

page 4 of 4

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21311.d
Report Date: 26-Nov-2002 18:00

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21311.d
Lab Smp Id: BSTD330
Inj Date : 26-NOV-2002 08:19
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : BSTD330
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/8260H_02.m
Meth Date : 26-Nov-2002 08:22 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
90 Dichlorodifluoromethane	85	2.725	2.725	(0.307)	1830519	50.0000	56
1 Chloromethane	50	3.021	3.021	(0.340)	454816	50.0000	52
4 Vinyl Chloride	62	3.199	3.199	(0.360)	501041	50.0000	52
3 Bromomethane	94	3.672	3.672	(0.413)	713511	50.0000	48
5 Chloroethane	64	3.806	3.806	(0.428)	315327	50.0000	51
9 Trichlorofluoromethane	101	4.205	4.205	(0.473)	3389442	50.0000	54
121 n-Pentane	72	4.309	4.309	(0.485)	119635	50.0000	59
46 Ethyl Ether	59	4.635	4.635	(0.522)	413889	50.0000	50
119 Isoprene	67	4.650	4.650	(0.523)	632023	50.0000	53
47 Acrolein	56	4.798	4.798	(0.540)	79903	300.000	220
48 Freon TF	101	4.946	4.946	(0.557)	2446539	50.0000	55
10 1,1-Dichloroethene	96	4.946	4.946	(0.557)	826798	50.0000	46
7 Acetone	43	5.020	5.020	(0.565)	135748	50.0000	39
8 Carbon Disulfide	76	5.271	5.271	(0.593)	1863044	50.0000	54
50 Acetonitrile	41	5.419	5.419	(0.610)	1448832	1000.00	970

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21311.d
Report Date: 26-Nov-2002 18:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
116 Allyl chloride	76	5.419	5.419	(0.610)	337911	50.0000	47
131 Methyl Acetate	43	5.449	5.449	(0.613)	429369	50.0000	42
6 Methylene Chloride	84	5.582	5.582	(0.628)	774629	50.0000	48
51 TBA	59	5.745	5.745	(0.647)	882170	1000.00	850
52 Acrylonitrile	53	5.893	5.893	(0.663)	315718	150.000	140
53 MTBE	73	5.967	5.967	(0.672)	1941071	50.0000	48
12 trans-1,2-Dichloroethene	96	5.967	5.967	(0.672)	963130	50.0000	47
11 1,1-Dichloroethane	63	6.530	6.530	(0.735)	1505630	50.0000	48
57 Vinyl Acetate	43	6.574	6.574	(0.740)	2349335	50.0000	51
55 DIPE	45	6.604	6.604	(0.743)	2195889	50.0000	50
122 Allyl alcohol	57	6.544	6.544	(0.737)	237831	3000.00	2600
18 2-Butanone	72	7.314	7.314	(0.823)	57390	50.0000	44
13 cis-1,2-Dichloroethene	96	7.314	7.314	(0.823)	1020341	50.0000	47
104 2,2-Dichloropropane	77	7.329	7.329	(0.825)	1948938	50.0000	49
56 Ethyl Acetate	43	7.373	7.373	(0.830)	1320857	100.000	90
108 Bromochloromethane	128	7.655	7.655	(0.862)	926874	50.0000	46
15 Chloroform	83	7.744	7.744	(0.872)	2436558	50.0000	47
20 1,1,1-Trichloroethane	97	8.040	8.040	(0.905)	2753192	50.0000	48
59 Cyclohexane	56	8.143	8.143	(0.917)	949823	50.0000	51
92 1,1-Dichloropropene	75	8.262	8.262	(0.930)	1360445	50.0000	47
21 Carbon Tetrachloride	117	8.291	8.291	(0.933)	2991704	50.0000	50
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.439	8.439	(0.950)	1504885	50.0000	48
61 Isopropyl Acetate	43	8.543	8.543	(0.962)	2501079	100.000	92
17 1,2-Dichloroethane	62	8.528	8.528	(0.960)	1635497	50.0000	45
28 Benzene	78	8.543	8.543	(0.962)	1752545	50.0000	46
* 19 Fluorobenzene	96	8.883	8.883	(1.000)	2684620	50.0000	
25 Trichloroethene	95	9.372	9.372	(1.055)	1376361	50.0000	47
132 Methyl Cyclohexane	83	9.653	9.653	(1.087)	1073579	50.0000	51
23 1,2-Dichloropropane	63	9.638	9.638	(1.085)	759185	50.0000	45
120 Methyl methacrylate	69	9.742	9.742	(1.097)	462623	50.0000	49
64 Propyl Acetate	43	9.801	9.801	(1.103)	1723328	100.000	90
95 1,4-Dioxane	88	9.801	9.801	(1.103)	276716	3000.00	2500
109 Dibromomethane	93	9.801	9.801	(1.103)	1321370	50.0000	47
22 Bromodichloromethane	83	9.979	9.979	(1.123)	2547619	50.0000	49
30 2-Chloroethyl Vinyl Ether	63	10.305	10.305	(1.160)	460577	50.0000	56
118 Epichlorohydrin	57	10.393	10.393	(1.170)	1280242	1000.00	950
24 cis-1,3-Dichloropropene	75	10.527	10.527	(1.185)	1418780	50.0000	49
33 4-Methyl-2-Pentanone	43	10.675	10.675	(1.202)	525749	50.0000	46
$ 37 Toluene-d8 (SUR)	98	10.882	10.882	(0.868)	2063724	50.0000	47
38 Toluene	91	10.956	10.956	(0.874)	2273675	50.0000	46
29 trans-1,3-Dichloropropene	75	11.163	11.163	(0.890)	1395955	50.0000	45
27 1,1,2-Trichloroethane	83	11.400	11.400	(0.909)	744577	50.0000	45
103 1,3-Dichloropropane	76	11.592	11.592	(0.924)	1200930	50.0000	45
35 Tetrachloroethene	166	11.622	11.622	(0.927)	2168793	50.0000	48
34 2-Hexanone	43	11.637	11.637	(0.928)	339608	50.0000	43
65 Butyl Acetate	43	11.770	11.770	(0.939)	2010014	100.000	92
26 Dibromochloromethane	129	11.874	11.874	(0.947)	2686451	50.0000	47

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21311.d
Report Date: 26-Nov-2002 18:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	66 1,2-Dibromoethane	107	12.022	12.022	(0.959)	1756582	50.0000	45
*	32 Chlorobenzene-d5	117	12.540	12.540	(1.000)	2349308	50.0000	
	39 Chlorobenzene	112	12.584	12.584	(1.004)	2101383	50.0000	46
	97 1,1,1,2-Tetrachloroethane	131	12.658	12.658	(1.009)	1712678	50.0000	48
	40 Ethylbenzene	106	12.673	12.673	(1.011)	850015	50.0000	46
	43 m+p-Xylene	106	12.806	12.806	(1.021)	2099751	100.000	93
	96 Methyl Acrylate	55	7.447	7.447	(0.838)	467859	50.0000	45
	44 o-Xylene	106	13.251	13.251	(1.057)	1028756	50.0000	47
	42 Styrene	104	13.251	13.251	(1.057)	1732804	50.0000	48
	31 Bromoform	173	13.487	13.487	(1.076)	2243376	50.0000	45
	110 Isopropylbenzene	105	13.635	13.635	(1.087)	3324747	50.0000	46
$	41 Bromofluorobenzene (SUR)	174	13.813	13.813	(0.919)	1956203	50.0000	44
	36 1,1,2,2-Tetrachloroethane	83	13.917	13.917	(0.926)	1149226	50.0000	39
	99 1,2,3-Trichloropropane	110	13.976	13.976	(0.930)	465115	50.0000	41
	107 Bromobenzene	156	14.006	14.006	(0.932)	1658245	50.0000	43
	112 n-Propylbenzene	91	14.065	14.065	(0.936)	3550305	50.0000	45
	105 2-Chlorotoluene	91	14.183	14.183	(0.944)	2762021	50.0000	44
	102 1,3,5-Trimethylbenzene	105	14.228	14.228	(0.947)	2689959	50.0000	47
	106 4-Chlorotoluene	91	14.287	14.287	(0.951)	3049464	50.0000	46
	115 tert-Butylbenzene	119	14.583	14.583	(0.970)	2990076	50.0000	45
	100 1,2,4-Trimethylbenzene	105	14.627	14.627	(0.973)	2624357	50.0000	46
	114 sec-Butylbenzene	105	14.805	14.805	(0.985)	3543012	50.0000	45
	113 p-Isopropyltoluene	119	14.923	14.923	(0.993)	3179915	50.0000	47
	67 1,3-Dichlorobenzene	146	14.968	14.968	(0.996)	2344310	50.0000	48
*	91 1,4-Dichlorobenzene-d4	152	15.027	15.027	(1.000)	1666801	50.0000	
	68 1,4-Dichlorobenzene	146	15.042	15.042	(1.001)	2465806	50.0000	44
	117 Benzyl chloride	91	15.160	15.160	(1.009)	1824277	50.0000	47
	111 n-Butylbenzene	91	15.338	15.338	(1.021)	2585124	50.0000	48
	69 1,2-Dichlorobenzene	146	15.441	15.441	(1.028)	2164319	50.0000	46
	101 1,2-Dibromo-3-chloropropane	75	16.182	16.182	(1.077)	381443	50.0000	41
	93 1,2,4-Trichlorobenzene	180	17.055	17.055	(1.135)	1941745	50.0000	44
	94 Hexachlorobutadiene	225	17.203	17.203	(1.145)	1827702	50.0000	46
	70 Naphthalene	128	17.336	17.336	(1.154)	1821501	50.0000	41
	98 1,2,3-Trichlorobenzene	180	17.588	17.588	(1.170)	1687298	50.0000	44
M	14 1,2-Dichloroethene (total)	100				1983472	100.000	94
M	45 Xylene (Total)	100				3128507	150.000	140

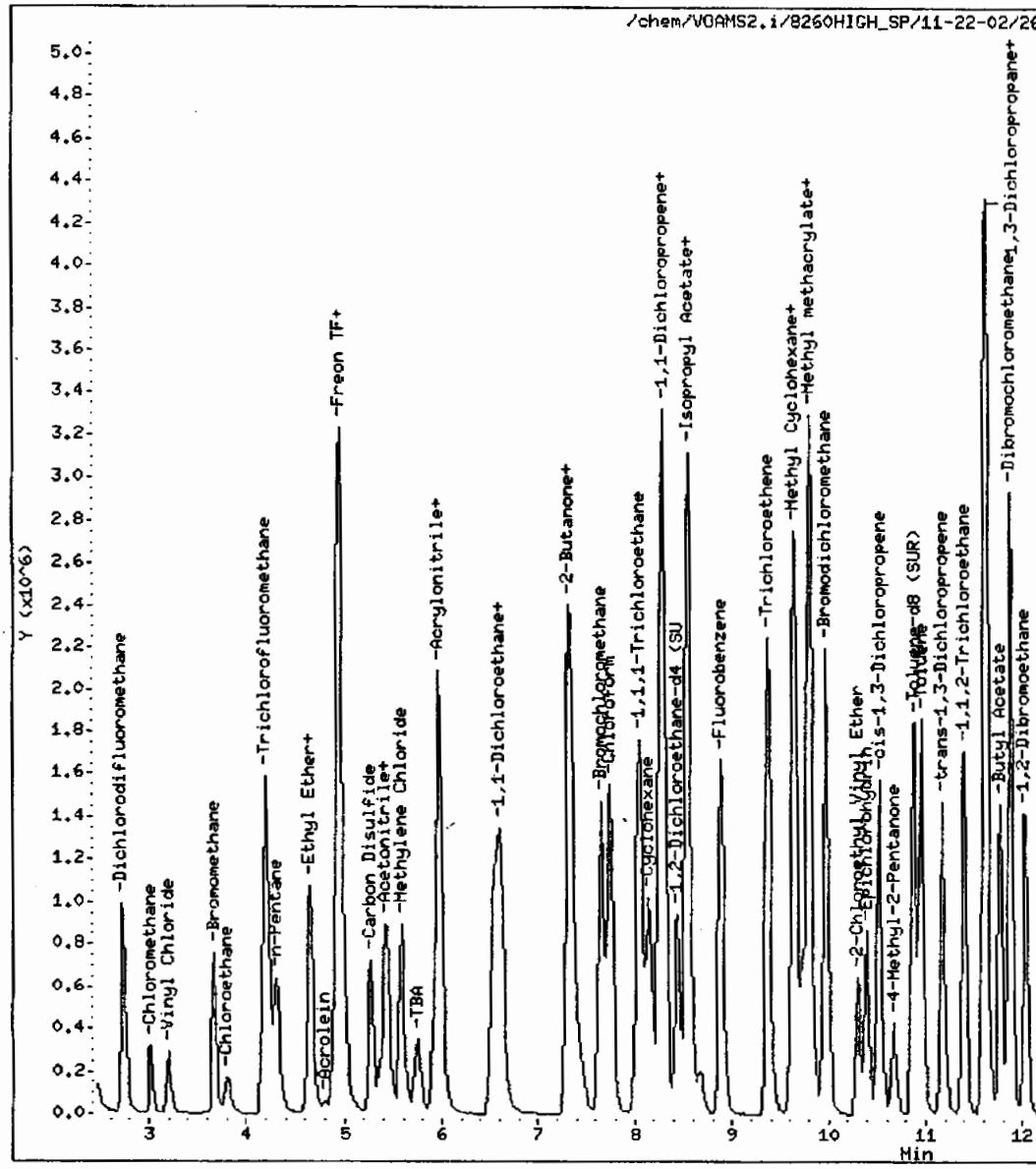
Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/26nov02.b/b21311.d
Date : 26-NOV-2002 08:19
Client ID:
Sample Info: BSTD330

Column phase: DB624

Instrume

Operator

Column c



Surrogate Compound Recovery Summary

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY
METHOD 8260B

Matrix: SOIL Level: HIGH Lab Job No: D092

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
01	392306	94	109	96		0
02	392307	92	107	92		0
03	392308	90	104	94		0
04	392309	94	106	93		0
05	392310	90	104	93		0
06	392311	94	106	96		0
07	392311MS	82	110	90		0
08	392311MSD	97	104	97		0
09	392312	99	107	92		0
10	392313	106	100	93		0
11	392314	100	106	95		0
12	392315	100	108	97		0
13	392316	100	114	95		0
14	392317	99	106	92		0
15	392318	102	113	95		0
16	392319	98	106	94		0
17	392320	101	107	94		0
18	392321	102	109	97		0
19	392322	96	105	94		0
20	392323	96	104	94		0
21	392324	96	103	98		0
22	392325	100	109	98		0
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
S1	= 1,2-Dichloroethane-d4	(56-141)
S2	= Toluene-d8	(58-142)
S3	= Bromofluorobenzene	(58-135)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

page 1 of 1

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY
METHOD 8260B

Matrix: SOIL Level: HIGH Lab Job No: D092

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
01	BV328	93	100	93		0
02	BV329	99	98	92		0
03	BV330M	95	94	90		0
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
S1	= 1,2-Dichloroethane-d4	(56-141)
S2	= Toluene-d8	(58-142)
S3	= Bromofluorobenzene	(58-135)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

page 1 of 1

Spike Recovery Summary

VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8260B

Matrix: SOIL

Level: HIGH

Matrix Spike - Lab Sample No.: 392311

MS Sample from Lab Job No: D092

QA Batch: 4816

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	6300	0.00	6100	97	72-120
Trichloroethene	6300	0.00	6100	97	78-121
Benzene	6300	0.00	6000	95	79-122
Toluene	6300	0.00	6200	98	76-120
Chlorobenzene	6300	0.00	6000	95	79-121

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	6300	5900	94	3	40	72-120
Trichloroethene	6300	6200	98	2	40	78-121
Benzene	6300	6000	95	0	40	79-122
Toluene	6300	6000	95	3	40	76-120
Chlorobenzene	6300	6200	98	3	40	79-121

Column to be used to flag recovery and RPD values with an asterik
* Values outside of QC limits
RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21283.d
Report Date: 25-Nov-2002 10:04

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21283.d
Lab Smp Id: 392311MS
Inj Date : 24-NOV-2002 20:00
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392311MS;50;;11.0;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 1 QC Sample: MS
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260all.sub
Target Version: 3.50
Processing Host: hpd2

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.00000	Weight of sample extracted (g)
M	10.10000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1 Chloromethane	50	3.036	3.008	(0.342)	507626	54.9002	6900
4 Vinyl Chloride	62	3.213	3.186	(0.362)	605202	58.7435	7400
3 Bromomethane	94	3.672	3.660	(0.413)	837620	53.1787	6700
5 Chloroethane	64	3.806	3.808	(0.428)	356009	54.1496	6800
9 Trichlorofluoromethane	101	4.190	4.193	(0.472)	3643456	54.8037	6900
10 1,1-Dichloroethene	96	4.945	4.933	(0.557)	922638	48.3713	6100
6 Methylene Chloride	84	5.597	5.569	(0.630)	802609	46.3073	5800
12 trans-1,2-Dichloroethene	96	5.967	5.954	(0.672)	1053773	48.5432	6100
11 1,1-Dichloroethane	63	6.529	6.517	(0.735)	1643149	49.2610	6200
15 Chloroform	83	7.743	7.731	(0.872)	2613169	47.7975	6000
20 1,1,1-Trichloroethane	97	8.039	8.027	(0.905)	2917422	47.8033	6000
21 Carbon Tetrachloride	117	8.291	8.278	(0.933)	3193142	49.9656	6300
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.439	8.426	(0.950)	1352642	40.7746	5200
28 Benzene	78	8.543	8.530	(0.962)	1910993	47.4262	6000

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21283.d
Report Date: 25-Nov-2002 10:04

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	17	1,2-Dichloroethane	62	8.543	8.530	(0.962)	1516706	39.6602	5000
*	19	Fluorobenzene	96	8.883	8.885	(1.000)	2856049	50.0000	
	25	Trichloroethene	95	9.372	9.359	(1.055)	1507284	48.1340	6100
	23	1,2-Dichloropropane	63	9.638	9.640	(1.085)	785329	44.0575	5600
	22	Bromodichloromethane	83	9.979	9.966	(1.123)	2560243	46.3724	5900
	30	2-Chloroethyl Vinyl Ether	63	10.304	10.306	(1.160)	339566	39.1607	5000
	24	cis-1,3-Dichloropropene	75	10.526	10.514	(1.185)	1385607	44.7209	5600
$	37	Toluene-d8 (SUR)	98	10.867	10.869	(0.867)	2466821	55.2912	7000
	38	Toluene	91	10.956	10.943	(0.874)	2484302	49.0390	6200
	29	trans-1,3-Dichloropropene	75	11.163	11.165	(0.890)	1240096	39.7436	5000
	27	1,1,2-Trichloroethane	83	11.385	11.387	(0.908)	628547	37.6998	4800
	35	Tetrachloroethene	166	11.622	11.609	(0.927)	2274285	49.0699	6200
	26	Dibromochloromethane	129	11.874	11.876	(0.947)	2286848	39.5903	5000
*	32	Chlorobenzene-d5	117	12.540	12.542	(1.000)	2385737	50.0000	
	39	Chlorobenzene	112	12.569	12.571	(1.002)	2226239	47.6931	6000
	40	Ethylbenzene	106	12.673	12.675	(1.011)	932630	49.6066	6300
	43	m+p-Xylene	106	12.791	12.794	(1.020)	2306017	100.977	13000
	44	o-Xylene	106	13.236	13.238	(1.055)	1101950	49.6312	6300
M	45	Xylene (Total)	100				3407967	150.625	19000
	31	Bromoform	173	13.487	13.489	(1.076)	1704488	33.9495	4300
$	41	Bromofluorobenzene (SUR)	174	13.813	13.815	(0.920)	1947355	45.2069	5700
	36	1,1,2,2-Tetrachloroethane	83	13.902	13.904	(0.926)	833923	28.8712	3600
*	91	1,4-Dichlorobenzene-d4	152	15.012	15.014	(1.000)	1626352	50.0000	
	7	Acetone	43	5.064	5.022	(0.570)	116863	31.7605	4000
	8	Carbon Disulfide	76	5.271	5.258	(0.593)	2055430	55.5482	7000
	18	2-Butanone	72	7.329	7.316	(0.825)	45830	33.1718	4200
	33	4-Methyl-2-Pentanone	43	10.675	10.677	(1.202)	333377	27.1317	3400
	34	2-Hexanone	43	11.637	11.639	(0.928)	198715	24.6745	3100
	42	Styrene	104	13.250	13.252	(1.057)	1778947	48.2145	6100
	67	1,3-Dichlorobenzene	146	14.953	14.955	(0.996)	2300697	48.1307	6100
	68	1,4-Dichlorobenzene	146	15.042	15.044	(1.002)	2492555	45.6315	5800
	69	1,2-Dichlorobenzene	146	15.427	15.429	(1.028)	2057755	44.5733	5600
	13	cis-1,2-Dichloroethene	96	7.329	7.301	(0.825)	1104280	48.0832	6100

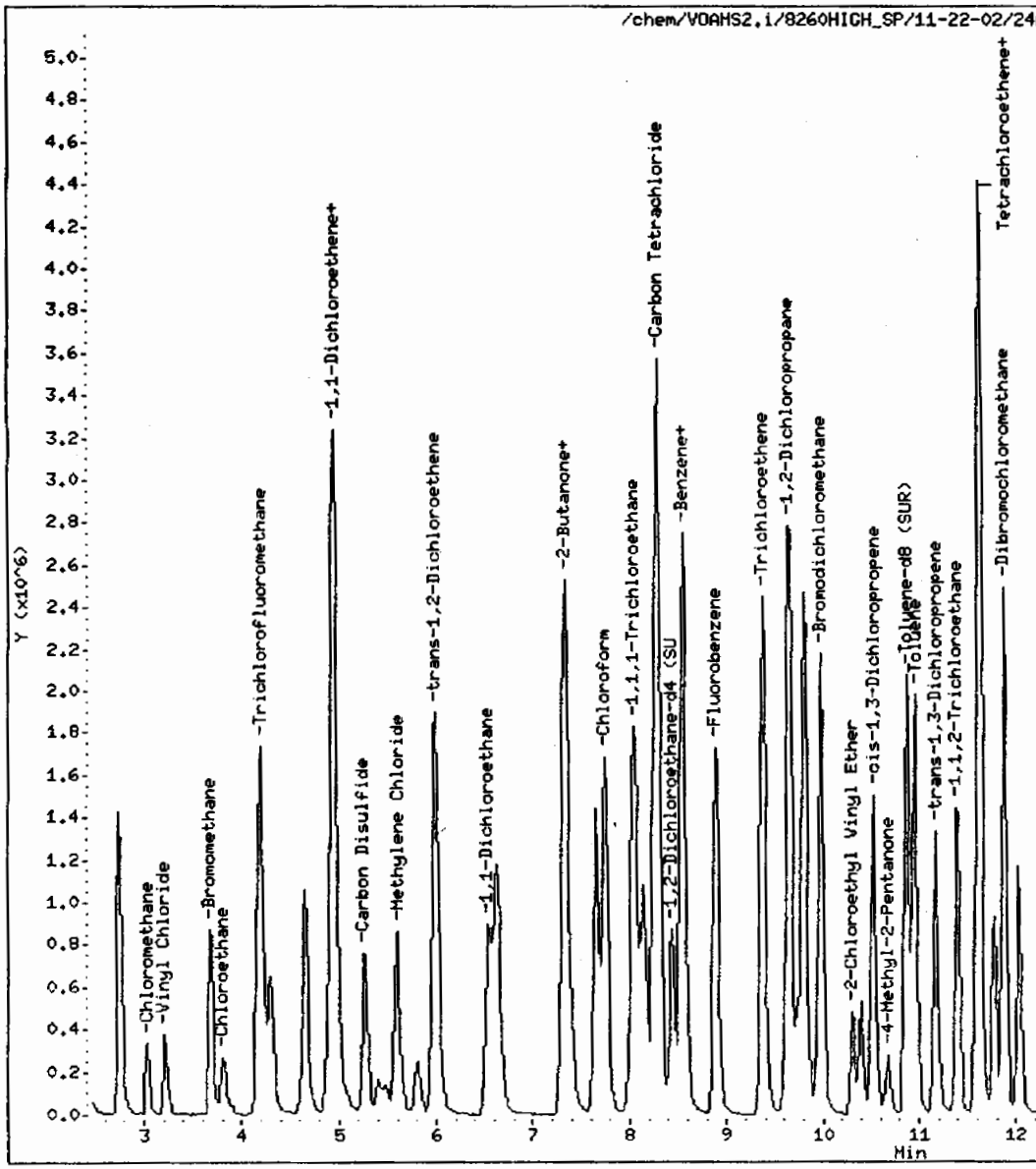
Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21283.d
Date : 24-NOV-2002 20:00
Client ID: HA-01-10-0-6MS
Sample Info: 392311MS;50;;11.0;25

Column phase: DB624

Instrume

Operator

Column d



Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21284.d
Report Date: 25-Nov-2002 10:04

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21284.d
Lab Smp Id: 392311MSD
Inj Date : 24-NOV-2002 20:29
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 392311MSD;50;;11.0;25
Misc Info : D092;4816;;JXZ
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 2 QC Sample: MSD
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260all.sub
Target Version: 3.50
Processing Host: hpd2

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	11.00000	Weight of sample extracted (g)
M	10.10000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1 Chloromethane	50	3.020	3.008	(0.340)	469823	53.1118	6700
4 Vinyl Chloride	62	3.213	3.186	(0.362)	539021	54.6880	6900
3 Bromomethane	94	3.672	3.660	(0.413)	802264	53.2396	6700
5 Chloroethane	64	3.805	3.808	(0.428)	315365	50.1389	6300
9 Trichlorofluoromethane	101	4.160	4.193	(0.468)	3262303	51.2917	6500
10 1,1-Dichloroethene	96	4.915	4.933	(0.553)	857946	47.0157	5900
6 Methylene Chloride	84	5.581	5.569	(0.628)	805489	48.5772	6100
12 trans-1,2-Dichloroethene	96	5.966	5.954	(0.672)	979345	47.1568	6000
11 1,1-Dichloroethane	63	6.529	6.517	(0.735)	1626389	50.9657	6400
15 Chloroform	83	7.743	7.731	(0.872)	2630484	50.2922	6400
20 1,1,1-Trichloroethane	97	8.039	8.027	(0.905)	2784097	47.6836	6000
21 Carbon Tetrachloride	117	8.276	8.278	(0.932)	2978899	48.7232	6200
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.439	8.426	(0.950)	1539964	48.5226	6100
28 Benzene	78	8.542	8.530	(0.962)	1843452	47.8209	6000

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21284.d
Report Date: 25-Nov-2002 10:04

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	17	1,2-Dichloroethane	62	8.527	8.530	(0.960)	1782872	48.7305	6200
*	19	Fluorobenzene	96	8.883	8.885	(1.000)	2732366	50.0000	
	25	Trichloroethene	95	9.371	9.359	(1.055)	1461201	48.7746	6200
	23	1,2-Dichloropropane	63	9.638	9.640	(1.085)	822178	48.2127	6100
	22	Bromodichloromethane	83	9.978	9.966	(1.123)	2771981	52.4802	6600
	30	2-Chloroethyl Vinyl Ether	63	10.304	10.306	(1.160)	434141	52.3339	6600
	24	cis-1,3-Dichloropropene	75	10.526	10.514	(1.185)	1512181	51.0154	6400
S	37	Toluene-d8 (SUR)	98	10.866	10.869	(0.867)	2310605	52.1514	6600
	38	Toluene	91	10.955	10.943	(0.874)	2403582	47.7770	6000
	29	trans-1,3-Dichloropropene	75	11.162	11.165	(0.890)	1500388	48.4215	6100
	27	1,1,2-Trichloroethane	83	11.385	11.387	(0.908)	799062	48.2618	6100
	35	Tetrachloroethene	166	11.607	11.609	(0.926)	2145725	46.6194	5900
	26	Dibromochloromethane	129	11.873	11.876	(0.947)	2843592	49.5725	6300
*	32	Chlorobenzene-d5	117	12.539	12.542	(1.000)	2369193	50.0000	
	39	Chlorobenzene	112	12.569	12.571	(1.002)	2279219	49.1691	6200
	40	Ethylbenzene	106	12.672	12.675	(1.011)	924899	49.5389	6300
	43	m+p-Xylene	106	12.791	12.794	(1.020)	2253444	99.3642	12000
	44	o-Xylene	106	13.235	13.238	(1.055)	1087257	49.3114	6200
M	45	Xylene (Total)	100				3340701	148.683	19000
	31	Bromoform	173	13.487	13.489	(1.076)	2383092	47.7972	6000
S	41	Bromofluorobenzene (SUR)	174	13.812	13.815	(0.920)	1943916	48.5763	6100
	36	1,1,2,2-Tetrachloroethane	83	13.901	13.904	(0.926)	1192523	44.4420	5600
*	91	1,4-Dichlorobenzene-d4	152	15.011	15.014	(1.000)	1510870	50.0000	
	7	Acetone	43	5.063	5.022	(0.570)	180831	51.3701	6500
	8	Carbon Disulfide	76	5.241	5.258	(0.590)	1901596	53.7171	6800
	18	2-Butanone	72	7.328	7.316	(0.825)	61050	46.1883	5800
	33	4-Methyl-2-Pentanone	43	10.674	10.677	(1.202)	551944	46.9531	5900
	34	2-Hexanone	43	11.636	11.639	(0.928)	331401	41.4375	5200
	42	Styrene	104	13.250	13.252	(1.057)	1780454	48.5923	6100
	67	1,3-Dichlorobenzene	146	14.952	14.955	(0.996)	2220263	49.9982	6300
	68	1,4-Dichlorobenzene	146	15.041	15.044	(1.002)	2410028	47.4930	6000
	69	1,2-Dichlorobenzene	146	15.426	15.429	(1.028)	2080861	48.5190	6100
	13	cis-1,2-Dichloroethene	96	7.314	7.301	(0.823)	1088179	49.5270	6300

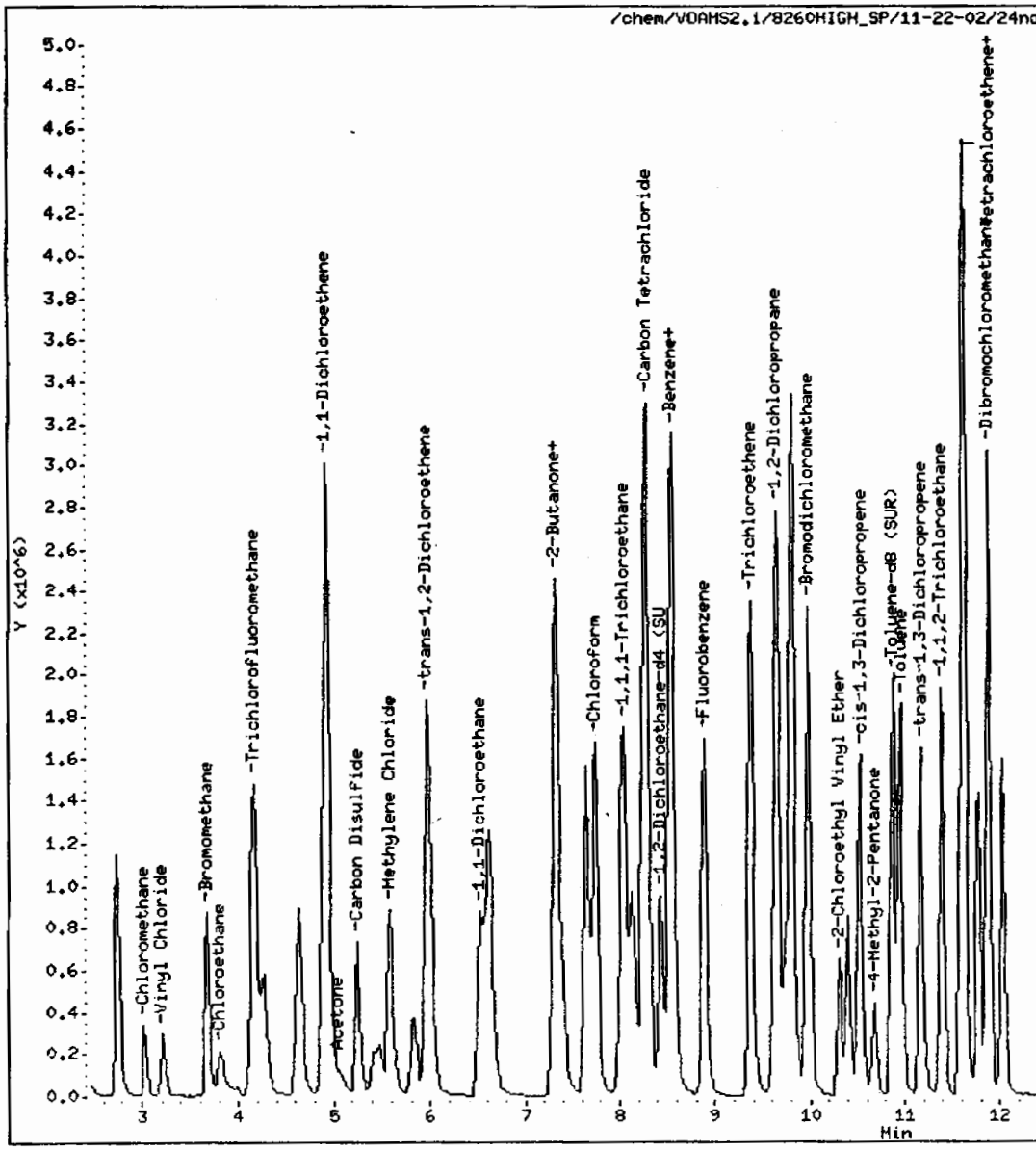
Data File: /chem/VOAHS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21284.d
Date : 24-NOV-2002 20:29
Client ID: HA-01-10-0-6MSD
Sample Info: 392311MSD:50;;11.0:25

Instrument

Operator:

Column phase: DB624

Column dia



Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21267.d
Report Date: 24-Nov-2002 15:14

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21267.d
Lab Smp Id: 4816BS
Inj Date : 24-NOV-2002 11:53
Operator : VOAMS 4 Inst ID: VOAMS2.i
Smp Info : 4816BS
Misc Info :
Comment :
Method : /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/8260H_02.m
Meth Date : 24-Nov-2002 11:17 johnz Quant Type: ISTD
Cal Date : 22-NOV-2002 12:45 Cal File: b21244.d
Als bottle: 9 QC Sample: METHSPIKE
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260all.sub
Target Version: 3.50
Processing Host: hpd2

Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1 Chloromethane	50	3.006	3.008	(0.338)	552750	54.8872	5500
4 Vinyl Chloride	62	3.199	3.186	(0.360)	625396	55.8240	5600
3 Bromomethane	94	3.657	3.660	(0.412)	920432	53.6530	5400
5 Chloroethane	64	3.805	3.808	(0.428)	412770	57.6440	5800
9 Trichlorofluoromethane	101	4.205	4.193	(0.473)	3807590	52.5846	5200
10 1,1-Dichloroethene	96	4.945	4.933	(0.557)	991202	47.7123	4800
6 Methylene Chloride	84	5.582	5.569	(0.628)	907016	48.0477	4800
12 trans-1,2-Dichloroethene	96	5.967	5.954	(0.672)	1144136	48.3918	4800
11 1,1-Dichloroethane	63	6.515	6.517	(0.733)	1818365	50.0518	5000
15 Chloroform	83	7.728	7.731	(0.870)	2959933	49.7086	5000
20 1,1,1-Trichloroethane	97	8.039	8.027	(0.905)	3153165	47.4370	4700
21 Carbon Tetrachloride	117	8.276	8.278	(0.932)	3341706	48.0102	4800
$ 16 1,2-Dichloroethane-d4 (SUR)	65	8.424	8.426	(0.948)	1724951	47.7414	4800
28 Benzene	78	8.543	8.530	(0.962)	2143735	48.8475	4900

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21267.d
Report Date: 24-Nov-2002 15:14

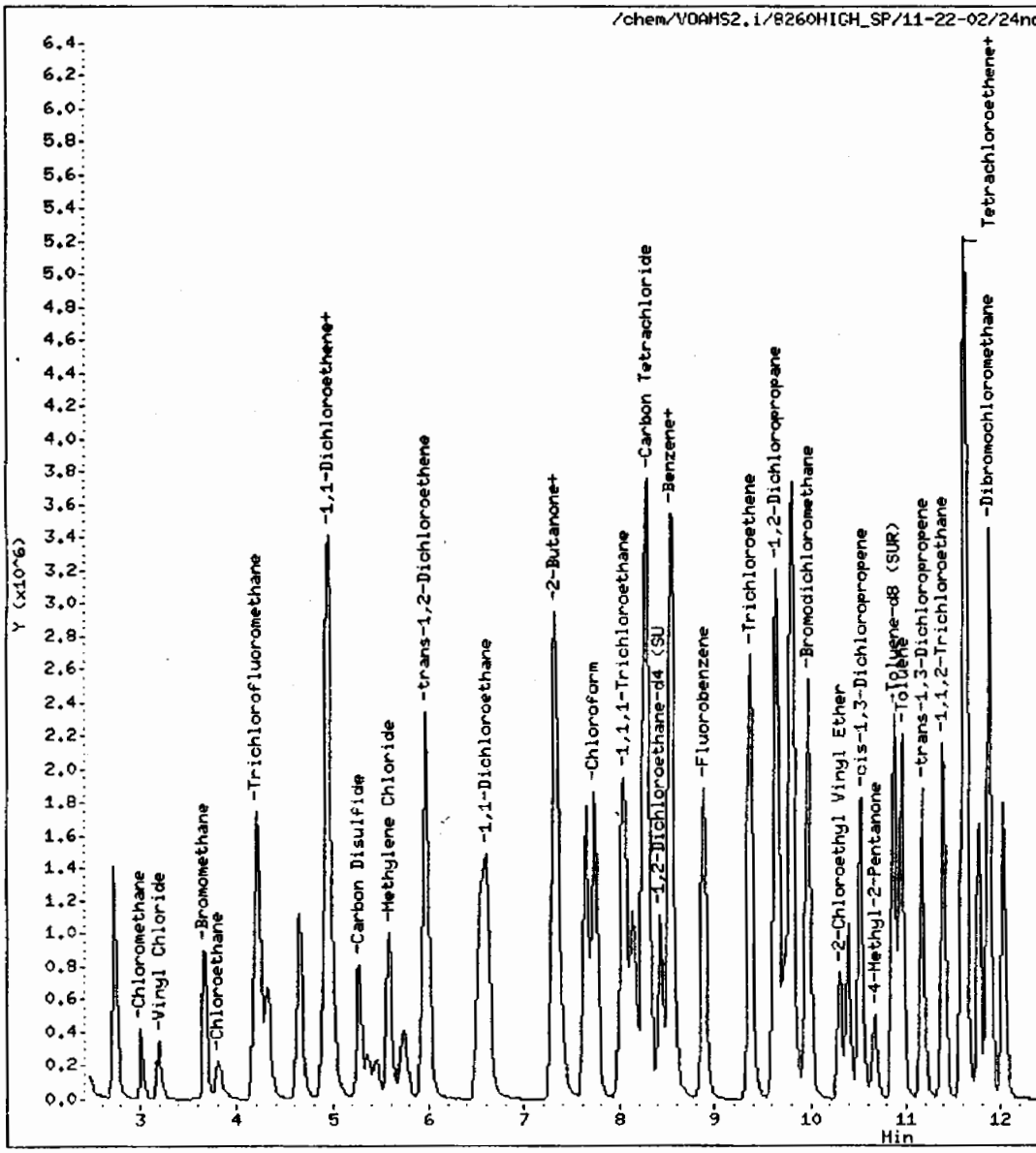
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	17 1,2-Dichloroethane	62	8.528	8.530	(0.960)	1952058	46.8661	4700
*	19 Fluorobenzene	96	8.883	8.885	(1.000)	3110667	50.0000	
	25 Trichloroethene	95	9.372	9.359	(1.055)	1673302	49.0618	4900
	23 1,2-Dichloropropane	63	9.638	9.640	(1.085)	933668	48.0920	4800
	22 Bromodichloromethane	83	9.964	9.966	(1.122)	3122107	51.9204	5200
	30 2-Chloroethyl Vinyl Ether	63	10.304	10.306	(1.160)	560700	59.3702	5900
	24 cis-1,3-Dichloropropene	75	10.526	10.514	(1.185)	1760777	52.1780	5200
S	37 Toluene-d8 (SUR)	98	10.867	10.869	(0.867)	2549258	49.5862	5000
	38 Toluene	91	10.956	10.943	(0.874)	2838073	48.6172	4900
	29 trans-1,3-Dichloropropene	75	11.163	11.165	(0.890)	1699913	47.2789	4700
	27 1,1,2-Trichloroethane	83	11.385	11.387	(0.908)	907486	47.2357	4700
	35 Tetrachloroethene	166	11.622	11.609	(0.927)	2584787	48.3976	4800
	26 Dibromochloromethane	129	11.874	11.876	(0.947)	3256328	48.9225	4900
*	32 Chlorobenzene-d5	117	12.540	12.542	(1.000)	2749120	50.0000	
	39 Chlorobenzene	112	12.569	12.571	(1.002)	2636474	49.0158	4900
	40 Ethylbenzene	106	12.673	12.675	(1.011)	1070250	49.4020	4900
	43 m+p-Xylene	106	12.791	12.794	(1.020)	2723206	103.483	10000
	44 o-Xylene	106	13.235	13.238	(1.055)	1300228	50.8208	5100
M	45 Xylene (Total)	100				4023434	154.321	15000
	31 Bromoform	173	13.487	13.489	(1.076)	2811405	48.5951	4800
S	41 Bromofluorobenzene (SUR)	174	13.813	13.815	(0.920)	2417563	45.1116	4500
	36 1,1,2,2-Tetrachloroethane	83	13.902	13.904	(0.926)	1521445	42.3396	4200
*	91 1,4-Dichlorobenzene-d4	152	15.012	15.014	(1.000)	2023317	50.0000	
	7 Acetone	43	5.019	5.022	(0.565)	159288	39.7471	4000
	8 Carbon Disulfide	76	5.271	5.258	(0.593)	2221308	55.1174	5500
	18 2-Butanone	72	7.314	7.316	(0.823)	70567	46.8958	4700
	33 4-Methyl-2-Pentanone	43	10.674	10.677	(1.202)	632258	47.2442	4700
	34 2-Hexanone	43	11.637	11.639	(0.928)	402803	43.4049	4300
	42 Styrene	104	13.250	13.252	(1.057)	2220597	52.2292	5200
	67 1,3-Dichlorobenzene	146	14.953	14.955	(0.996)	2877631	48.3892	4800
	68 1,4-Dichlorobenzene	146	15.042	15.044	(1.002)	3320962	48.8691	4900
	69 1,2-Dichlorobenzene	146	15.426	15.429	(1.028)	2839321	49.4364	4900
	13 cis-1,2-Dichloroethene	96	7.314	7.301	(0.823)	1246585	49.8366	5000

Data File: /chem/VOAMS2.i/8260HIGH_SP/11-22-02/24nov02.b/b21267.d
Date : 24-NOV-2002 11:53
Client ID: 4816BS
Sample Info: 4816BS

Instrument

Operator:
Column dia

Column phase: DB624



Internal Standard Area and RT Summary

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): B21266 Date Analyzed: 11/24/02

Instrument ID: VOAMS2 Time Analyzed: 1111

		IS1 AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	3202988	8.89	2860888	12.54	2097707	15.01
	UPPER LIMIT	6405976	9.39	5721776	13.04	4195414	15.51
	LOWER LIMIT	1601494	8.39	1430444	12.04	1048854	14.51
	LABORATORY SAMPLE NO.						
01	BV328	3260895	8.90	2847788	12.55	1872847	15.03
02	392306	2908782	8.90	2575511	12.54	1662347	15.01
03	392307	2981788	8.88	2654984	12.54	1798337	15.01
04	392308	2942793	8.88	2632611	12.54	1658244	15.01
05	392309	2851054	8.88	2539551	12.54	1622934	15.01
06	392310	2856792	8.90	2558945	12.54	1667258	15.01
07	392311	2848864	8.88	2528774	12.54	1538267	15.01
08	392311MS	2856049	8.88	2385737	12.54	1626352	15.01
09	392311MSD	2732366	8.88	2369193	12.54	1510870	15.01
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

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.

page 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): B21286 Date Analyzed: 11/25/02

Instrument ID: VOAMS2 Time Analyzed: 0851

		IS1 AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	2885785	8.87	2466343	12.53	1814731	15.00
	UPPER LIMIT	5771570	9.37	4932686	13.03	3629462	15.50
	LOWER LIMIT	1442892	8.37	1233172	12.03	907366	14.50
	LABORATORY SAMPLE NO.						
01	BV329	2964083	8.88	2649723	12.54	1734695	15.01
02	392312	2594565	8.90	2377899	12.55	1635955	15.03
03	392313	1940130	8.90	2026899	12.56	1538646	15.03
04	392314	2650504	8.90	2307472	12.55	1509076	15.03
05	392315	2723779	8.90	2315151	12.55	1456461	15.03
06	392316	2684228	8.90	2317427	12.55	1456719	15.03
07	392317	2483088	8.90	2311794	12.56	1583810	15.03
08	392318	2560582	8.90	2267568	12.56	1442736	15.03
09	392319	2641337	8.90	2423896	12.55	1493641	15.03
10	392320	2613262	8.90	2424653	12.55	1505666	15.01
11	392321	2640463	8.90	2253946	12.55	1452318	15.03
12	392322	2645881	8.88	2387553	12.54	1481026	15.01
13	392323	2636548	8.88	2429030	12.54	1521902	15.01
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

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.

page 1 of 1

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): B21311 Date Analyzed: 11/26/02

Instrument ID: VOAMS2 Time Analyzed: 0819

		IS1 AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	2684620	8.88	2349308	12.54	1666801	15.03
	UPPER LIMIT	5369240	9.38	4698616	13.04	3333602	15.53
	LOWER LIMIT	1342310	8.38	1174654	12.04	833400	14.53
	LABORATORY SAMPLE NO.						
01	BV330M	2905131	8.87	2572978	12.52	1667237	15.00
02	392324	2712878	8.87	2430958	12.53	1386538	15.00
03	392325	2716412	8.87	2417937	12.53	1449815	15.00
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

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.

page 1 of 1

Injection Log Book

PROJECT VOA2 8260 MegA

Notebook No. 02444

Continued From Page

Date	Datafile	AGS	Sample	SOB	QA	w/vol	SOR D.F.	in/ul	Surrogate	LPB	SPD cal	PH	Comments
11/22/02	B21240	–	BBFB326			Song					702-		G 10:58
	B21241	1	BSTD005								-720		G
	B21242	2	BSTD005								-660		nd.
	B21243	3	BSTD020								-661		G
	B21244	4	BSTD200								-724		G
	B21245	5	BSTD100								-705		G
	B21246	6	BSTD050								-722		G
	B21247	7	STD		4812						-723		G
	B21248	8	4812 BS		4812						-697		N.D. method Alkylate
	B21249	9	BV326								-698		G
	B21250	10	BV326								-696		nd.
	B21251	9	390658	C839	4812	10/25	50x	100ml	PPM0	BV326	-701		G
	B21252	1	390658 MS						8260mg		-702		G
KB 11/22/02	B21253	2	390658 MSD								-703		G
	B21254	3	Blk								-632		G
	B21255	8	391318	C948	4812	11.2/25	50x	100ml	HSL410		-631		N.D.
	B21256	9	391319			9.9/25							G
	B21257	10	391321			10.7/25							G
	B21258	12	391322			11.8/25							G
	B21259	13	391323			11.2/25							G
	B21260	14	391324			11.1/25							G
	B21261	15	391325			10/25							G
	B21262	16	391320			10.4/25							G 22:02

5x2

Read and Understood By

Continued on Page

Signed: Ken Boykin / Ken Boykin Date: 11/22/02

Signed: [illegible] Date: 11/22/02

									G	
									NH.	
									G	
4812	11.3/25	X50	100μM	HSL+10		BV328		RA	c/o?	
	10/25								G	
	9.0/25								G	
	9.8/25								G	
	9.0/25								G	
	10/25								G	
	8.7/25							RA	c/o?	
4816	10.9/25			HSL+10					G	
	10.3/25								G	
	11.5/25								G	
	11.5/25								G	
	11.7/25								G	
	11.0/25								G	
				8260aH					G.	20:29

JXZ

8260 MeOH

NOTEBOOK NO. _____

Continued From Page _____

1.

PROJECT VOA2 MeOH 8260

Notebook No. _____

Continued From Page _____

Date	Datafile	AS	Sample	JOB	QA	wt/vol	D.F.	vol INJ	Sublist	pH	LPB	Slb lot#	Comments
11/25/02	B21285		BBFB329									see	8:28
	B21286		BSTD329									pg	
	B21287		BV329 BS									12	G
	B21288		BV329										G (W.U.)
	B21289		BV329								BV329		N.U.
	B21290	13	391258	C945	4812	10.5/25	X50	100µl	PP+10				G
	B21291	14	391261			10.2/25							G
	B21292	15	391264			10.4/25							G
	B21293	16	391268			10.9/25	X200	25µl					G
	B21294	2	391326	C948		11.3/25	X50	100µl	HSL+10				G see B21270
	B21295	3	391333	C948		8.7/25							leak NG
	B21296	4	392312	D092	4816	11.8/25							G
	B21297	5	392313			11.2/25							G
	B21298	6	392314			11.3/25							G
	B21299	7	392315			11/25							G
	B21300	8	392316			11.5/25							G
	B21301	9	392317			11.5/25							G
	B21302	10	392318			11.2/25							G
	B21303	11	392319			9.6/25							G
	B21304	12	392320			10.9/25							G
	B21305	13	392321			11.9/25							G
	B21306	14	392322			10/25							G
	B21307	15	392323			12.0/25							G 20:21
	B21308	16	392324			11/25							out of clock
	B21309	2	392325			10/25							

Continued on Page

Read and Understood By

Signed John Johns Date 11/25/02

Signed [illegible] Date 11/26/02

PROJECT VOA 2 MeOH High

Notebook No. 02444

Continued From Page

Date	Datafile	AS	Sample	JOB	QA	Wt/ml	D.F.	Vol INJ	Sublist	pH	LIB	Stel lot #	Comments
11/26/02	B21310	–	BBFB330									Stel	GG
	B21311	1	B5TD330									PJ	GG
	B21312	1	9881 B5									12	GG N.U.
	B21313	2	BV330								BV330		GG
	B21314	2	BV330										GG
	B21315	15	392756j	D011	9881		X10	500µl	HSL+10	1.6			GG
	B21316	16	392759g				X100	50µl					GG
	B21317	2	392766b				X1	5ml					GG
	B21318	1	392756ms				X10	50µl	8260ull				GG
	B21319	2	392756msD						8260ull				GG N.U.
	B21320	1	X B5TD330						All				GG
	B21321	4	BV330m								BV330m		GG
	B21322	4	BV330m										GG
	B21323	5	391333	C948	4812	8-7/25	X50	100µl	HSL+10				GG
	B21324	6	392324	D092	4816	11/25							GG
	B21325	7	392325			10/25							

KMB

Read and Understood By

John Zhang 11/26/02

Ken Boykin 11/26/02

Continued on Page

GC/FID Forms and Data (GRO)

Results Summary and Chromatograms

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

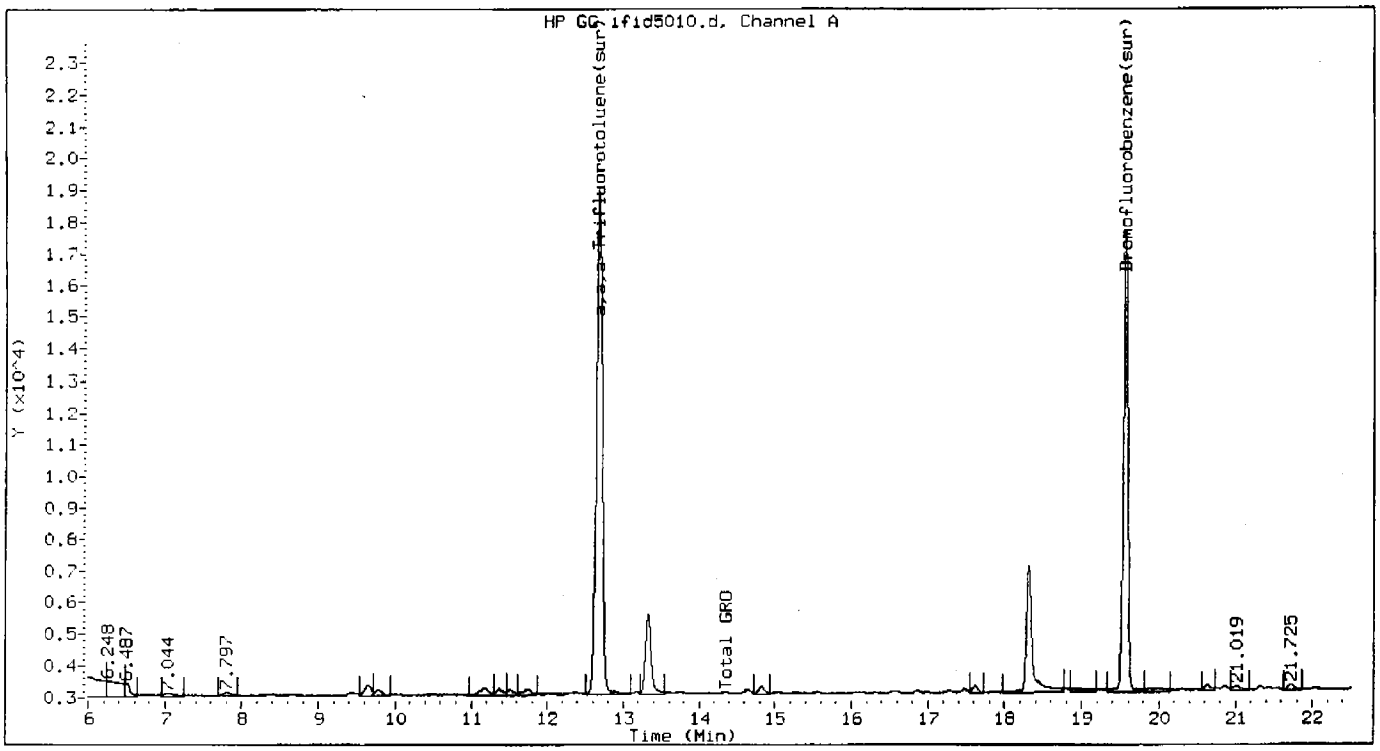
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5010.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.3

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5900

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5010.d Page 1
Report Date 11/27/2002 15:35



JXZ

Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 392306;;50
Lab ID : 392306 Inst ID : VOAGC3.i
Inj Date : 26-NOV-2002 18:15 Dil Factor : 50
Operator : Sample Matrix : SOIL
Cpnd Sublist: all Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.673	12.701	0.027	426427	20.706	2427.859
Bromofluorobenzene(sur)	19.557	19.580	0.023	284229	22.011	2580.848

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

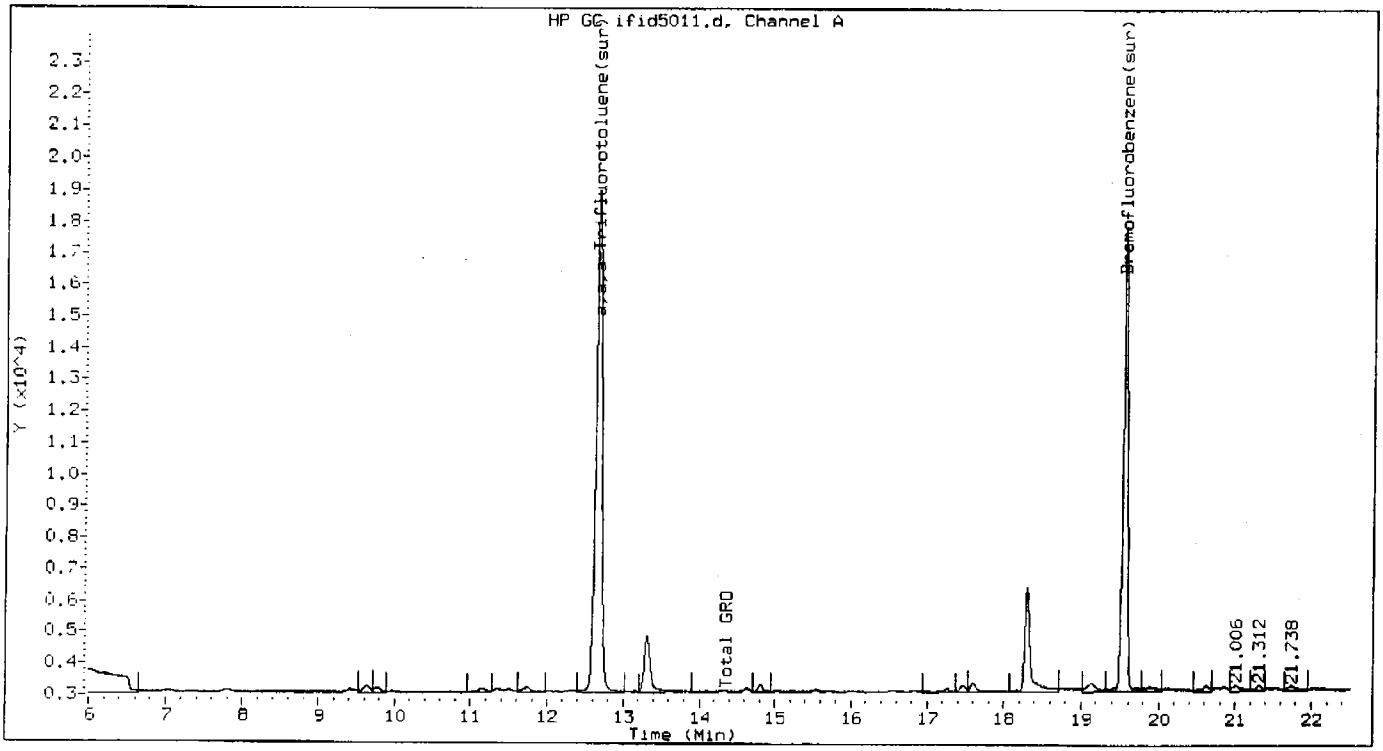
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5011.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9.4

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6400

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5011.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 392307;;50
Lab ID : 392307
Inj Date : 26-NOV-2002 18:46
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.658	12.701	0.043	431209	20.938	2674.805
Bromofluorobenzene(sur)	19.545	19.580	0.035	289496	22.418	2863.929

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

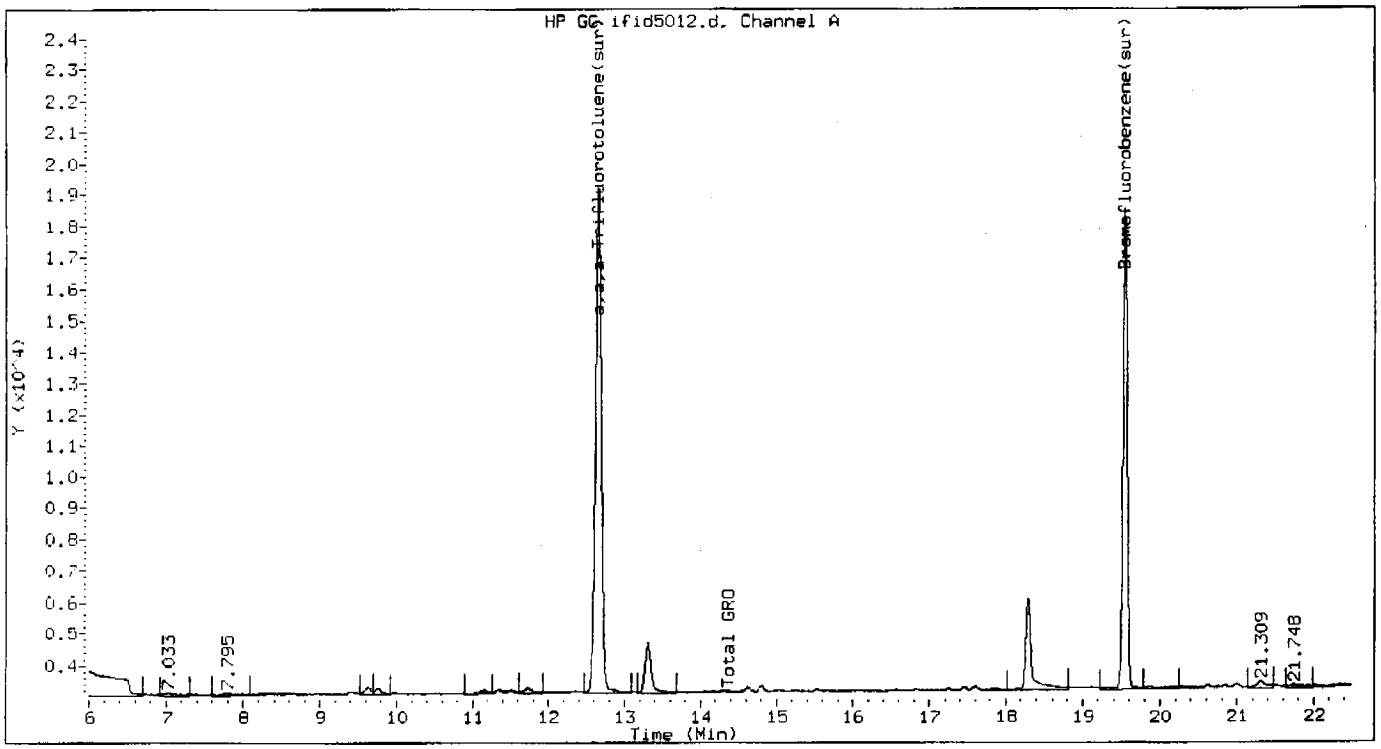
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5012.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9.6

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5900

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5012.d Page 1
Report Date 11/27/2002 15:35



J x Z

Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 392308;;50
Lab ID : 392308
Inj Date : 26-NOV-2002 19:17
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.654	12.701	0.047	433702	21.059	2488.820
Bromofluorobenzene(sur)	19.539	19.580	0.041	297400	23.030	2721.813

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

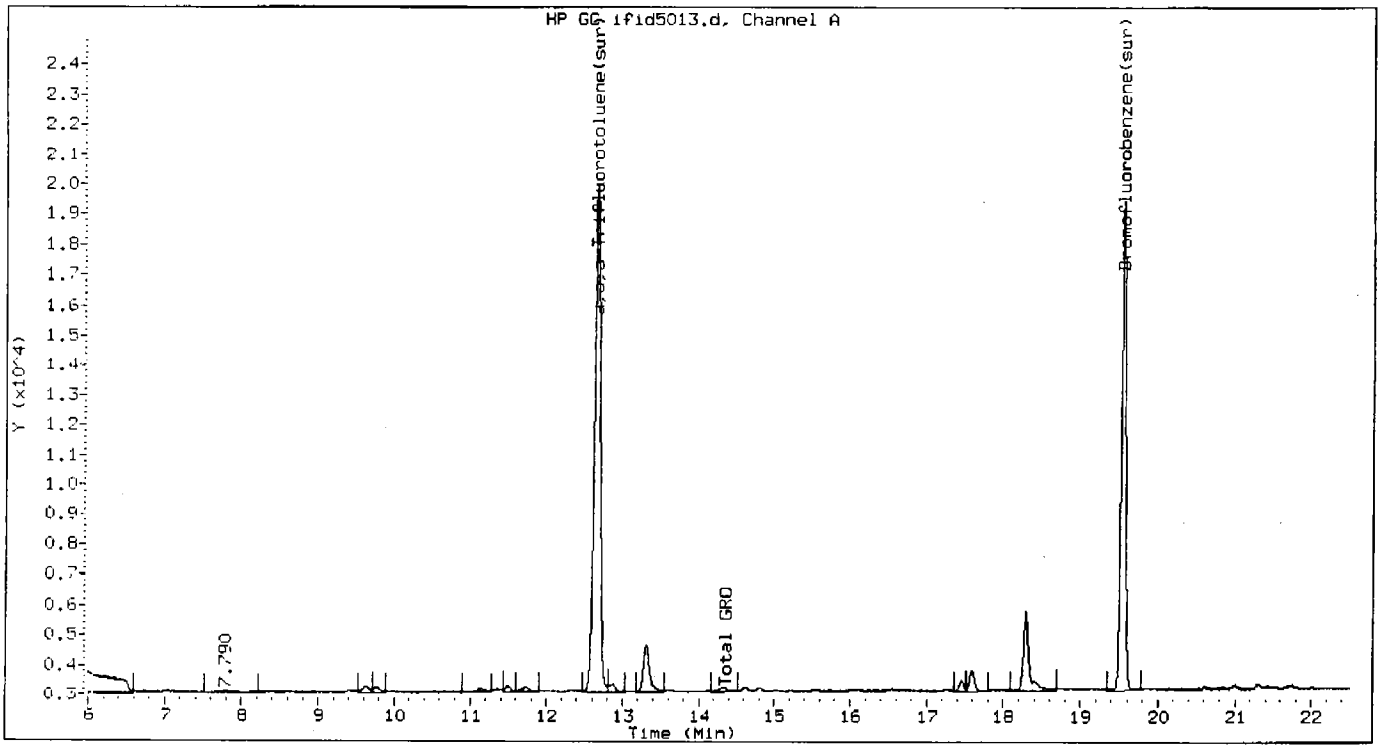
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5013.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.6

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6400

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5013.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 392309;;50
Lab ID : 392309
Inj Date : 26-NOV-2002 19:48
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

J x 2

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.650	12.701	0.051	449651	21.833	2790.628
Bromofluorobenzene(sur)	19.536	19.580	0.044	312779	24.221	3095.845

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

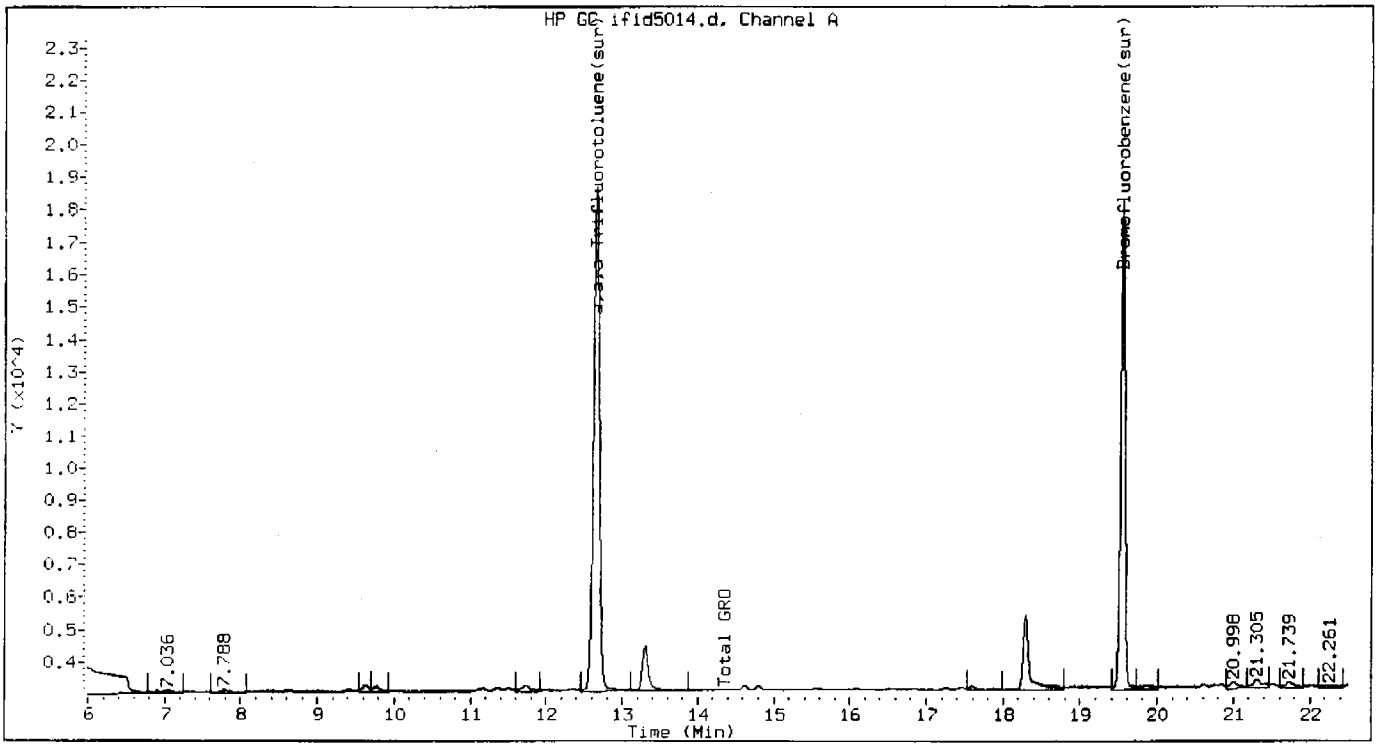
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5014.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 5.9

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5600

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5014.d Page 1
Report Date 11/27/2002 15:35



JXZ

Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 392310;;50
Lab ID : 392310
Inj Date : 26-NOV-2002 20:18
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.649	12.701	0.052	424503	20.612	2320.414
Bromofluorobenzene(sur)	19.535	19.580	0.045	294632	22.816	2568.502

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

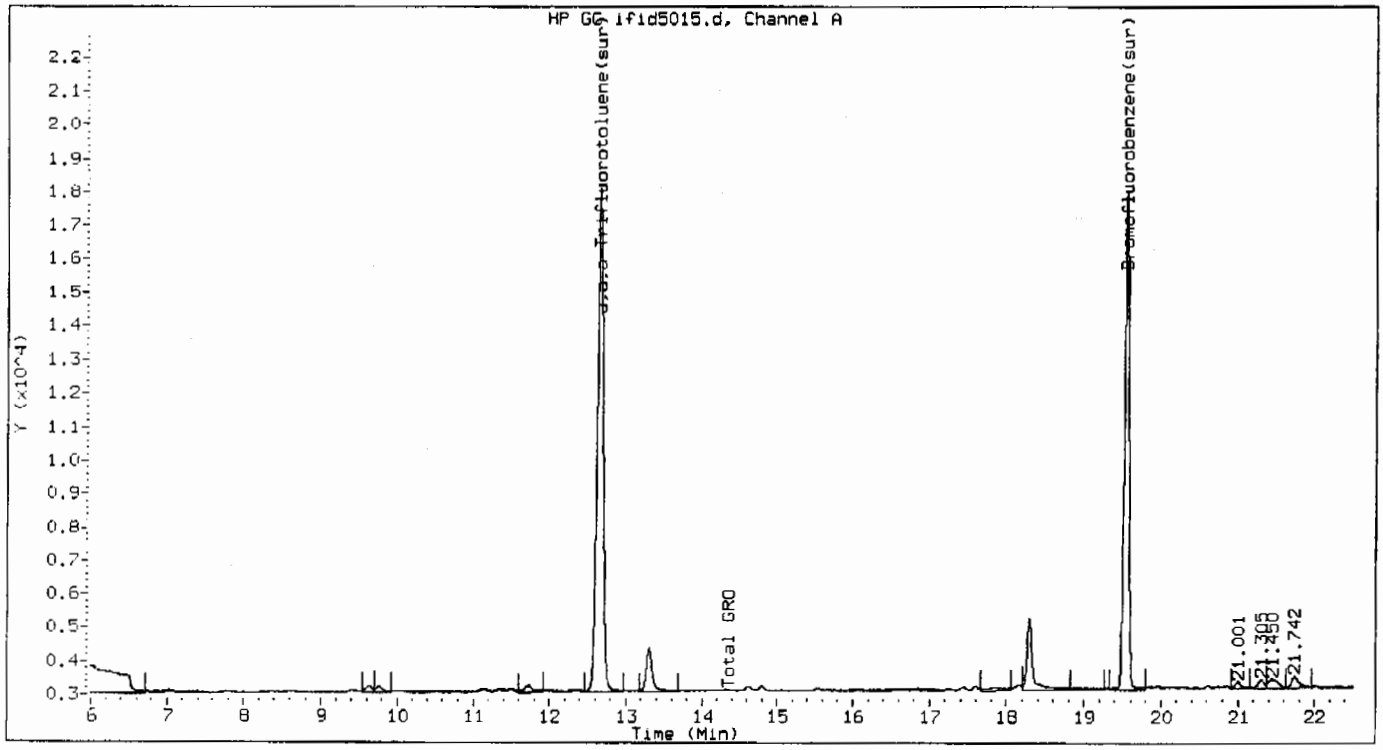
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5015.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.1

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6300

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5015.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 392311;;50
Lab ID : 392311
Inj Date : 26-NOV-2002 20:49
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.648	12.701	0.052	404985	19.665	2485.667
Bromofluorobenzene(sur)	19.535	19.580	0.045	288395	22.333	2822.974

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

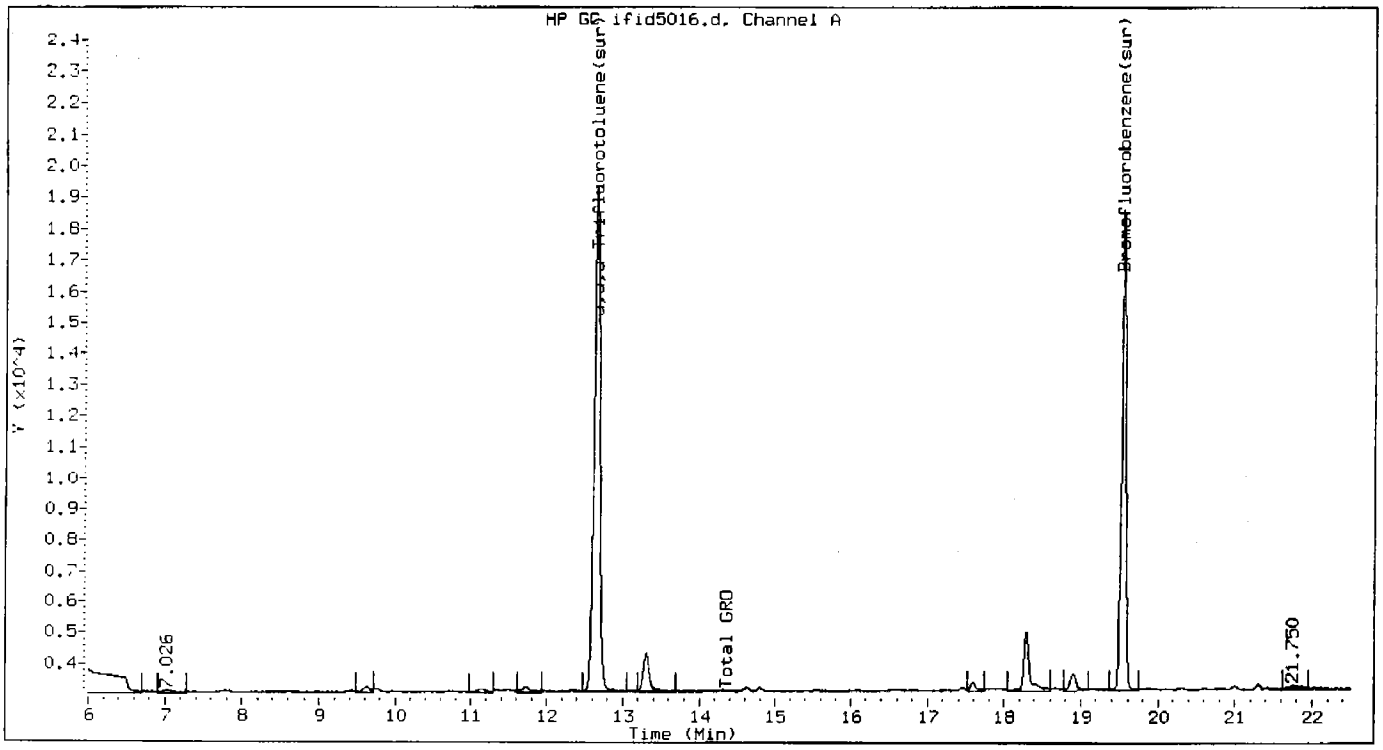
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5016.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.9

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6600

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5016.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 392312;;50
Lab ID : 392312
Inj Date : 26-NOV-2002 21:20
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.647	12.701	0.053	436759	21.207	2780.588
Bromofluorobenzene(sur)	19.534	19.580	0.046	300110	23.240	3047.127

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

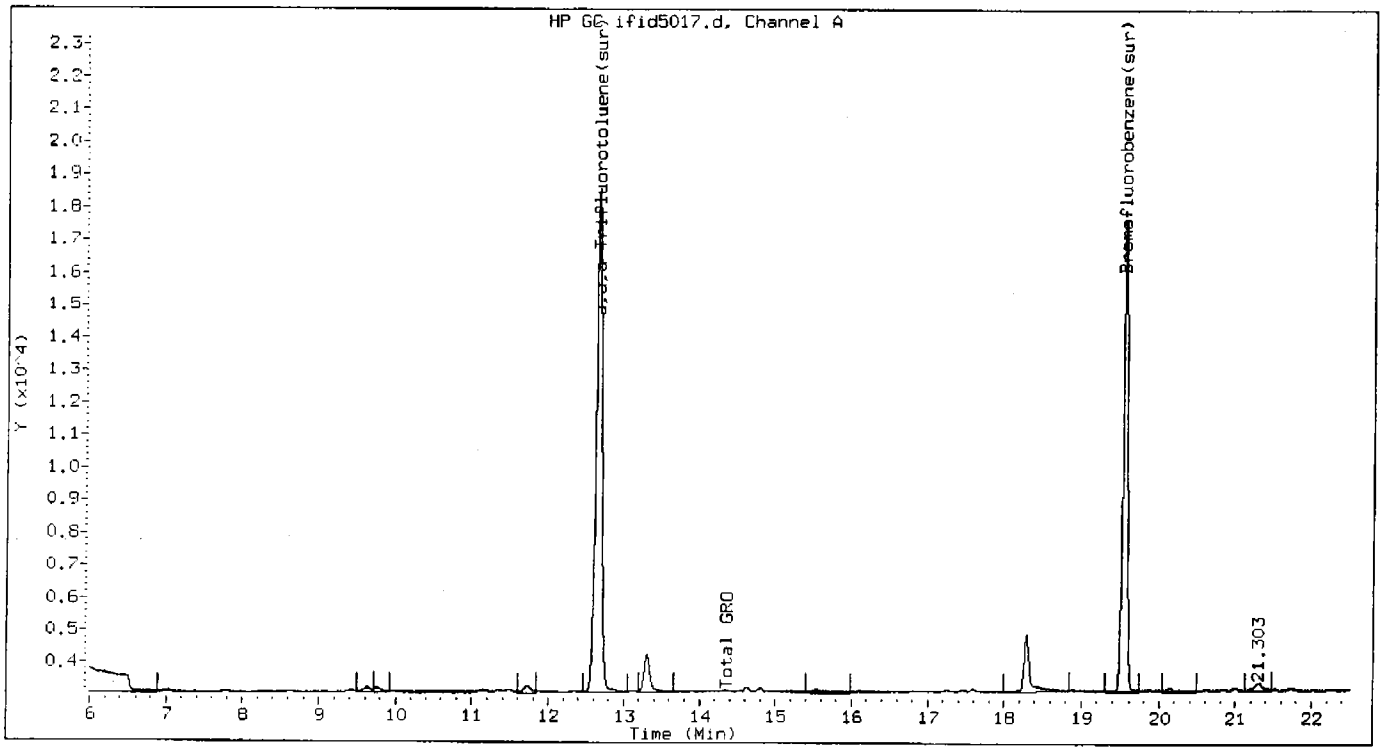
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5017.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.0

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5900

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5017.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 392313;;50
Lab ID : 392313
Inj Date : 26-NOV-2002 21:51
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

J x 2

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.649	12.701	0.052	419104	20.350	2395.265
Bromofluorobenzene(sur)	19.535	19.580	0.045	281315	21.785	2564.130

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

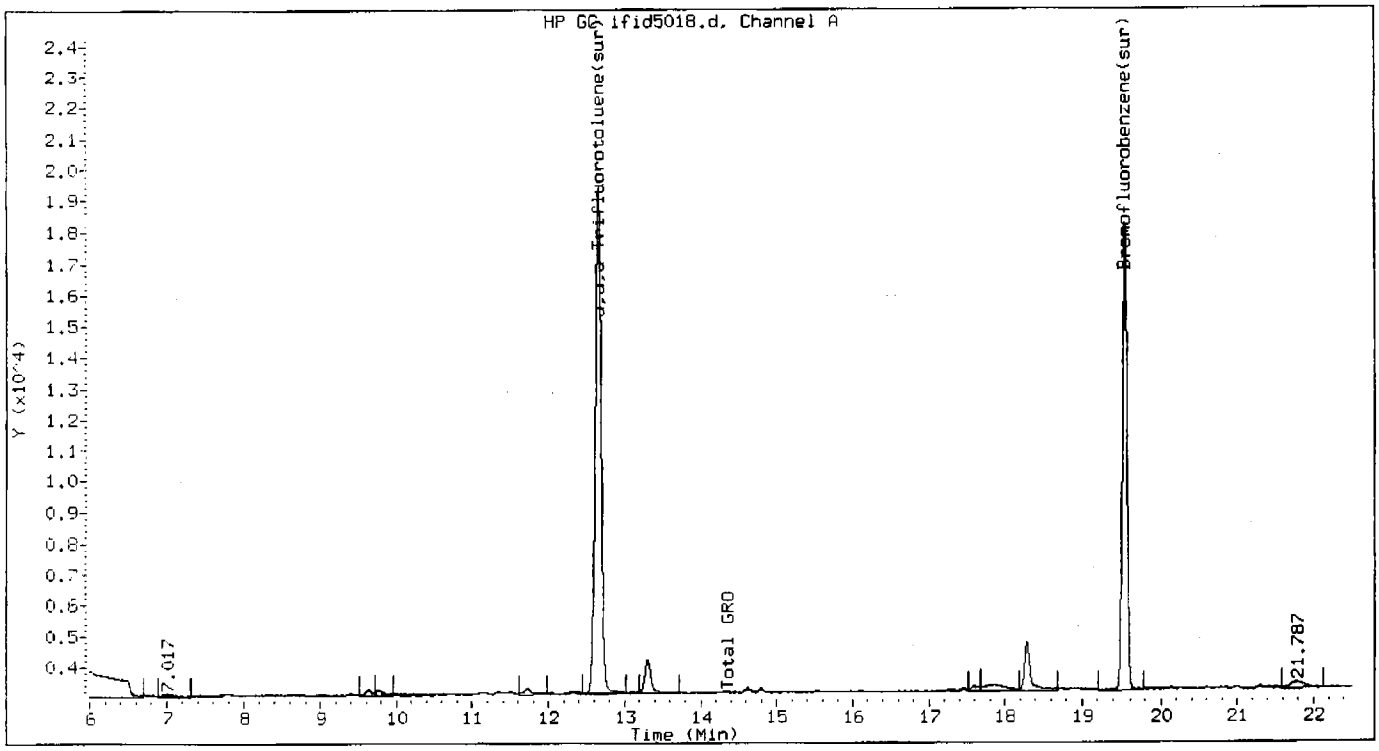
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5018.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12.4

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5900

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5018.d Page 1
Report Date 11/27/2002 15:35



J x 2

Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 392314;;50
Lab ID : 392314
Inj Date : 26-NOV-2002 22:21
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.648	12.701	0.052	437908	21.263	2507.551
Bromofluorobenzene(sur)	19.534	19.580	0.047	290697	22.511	2654.744

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

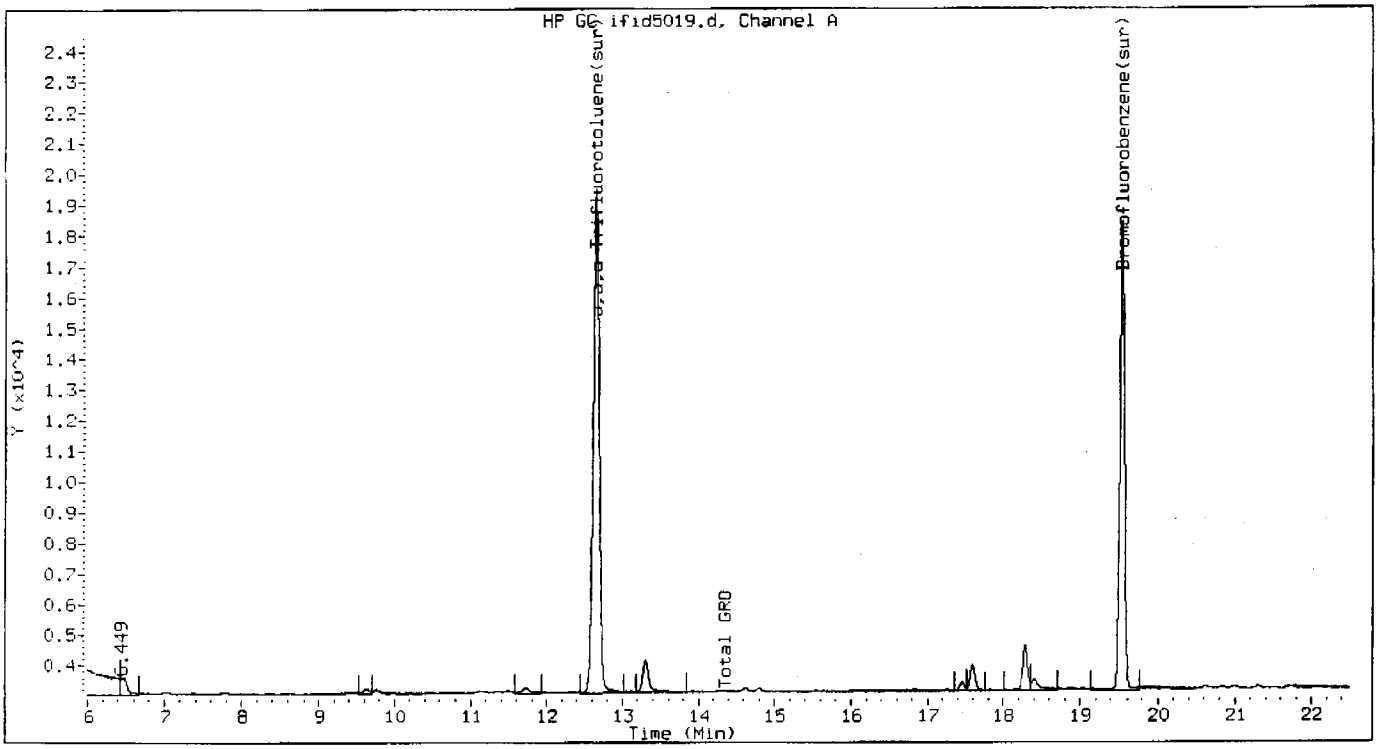
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5019.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.4

GASOLINE RANGE ORGANICS - GC/FID (GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6000

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5019.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 392315;;50
Lab ID : 392315
Inj Date : 26-NOV-2002 22:52
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

J x 2

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.648	12.701	0.053	444776	21.597	2575.158
Bromofluorobenzene(sur)	19.534	19.580	0.046	299986	23.231	2769.993

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

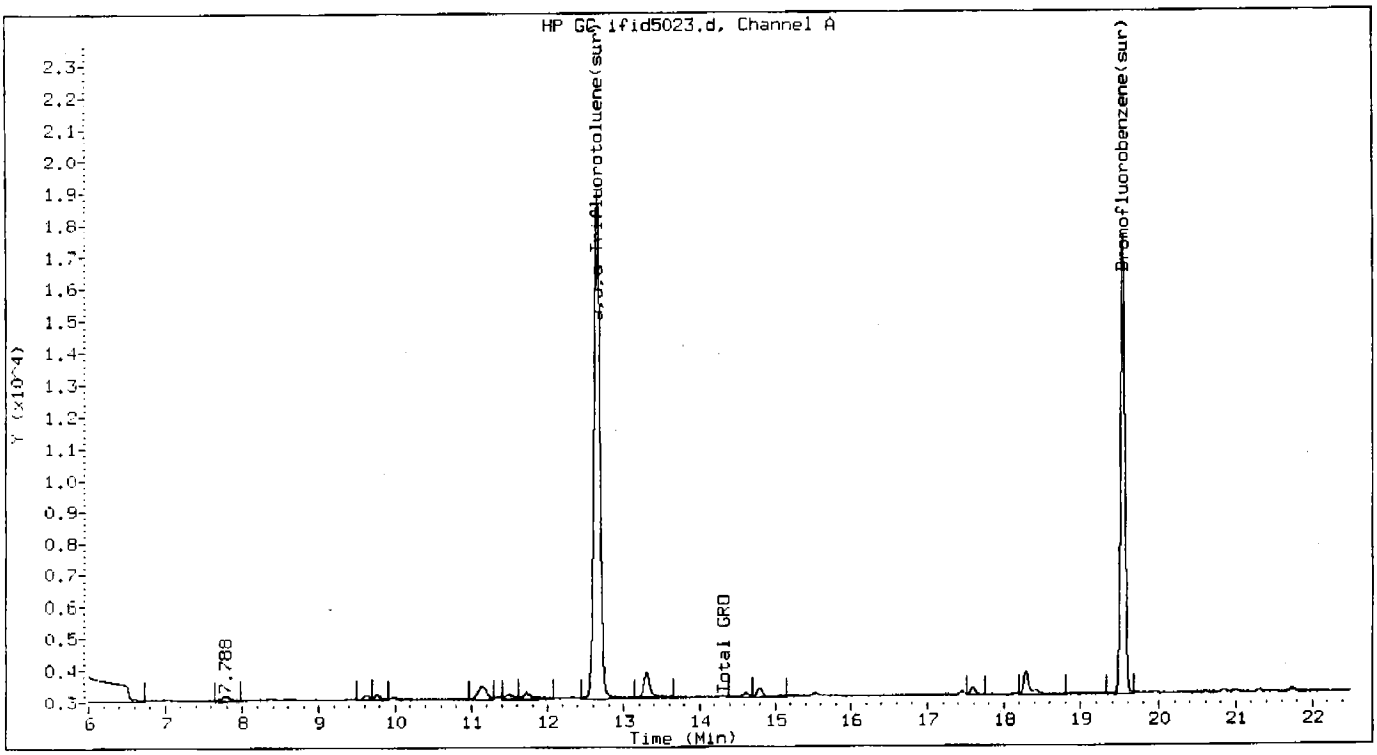
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5023.d

Matrix: SOIL
Level: MED
Sample Weight: 10 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.7

GASOLINE RANGE ORGANICS - GC/FID (GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	7100

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5023.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02c.b/GRO_02.m
Sample Info : 392316;;50
Lab ID : 392316
Inj Date : 27-NOV-2002 00:55
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

J X Z

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.647	12.648	0.001	429509	20.855	2952.350
Bromofluorobenzene(sur)	19.533	19.530	0.004	278334	21.554	3051.246

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

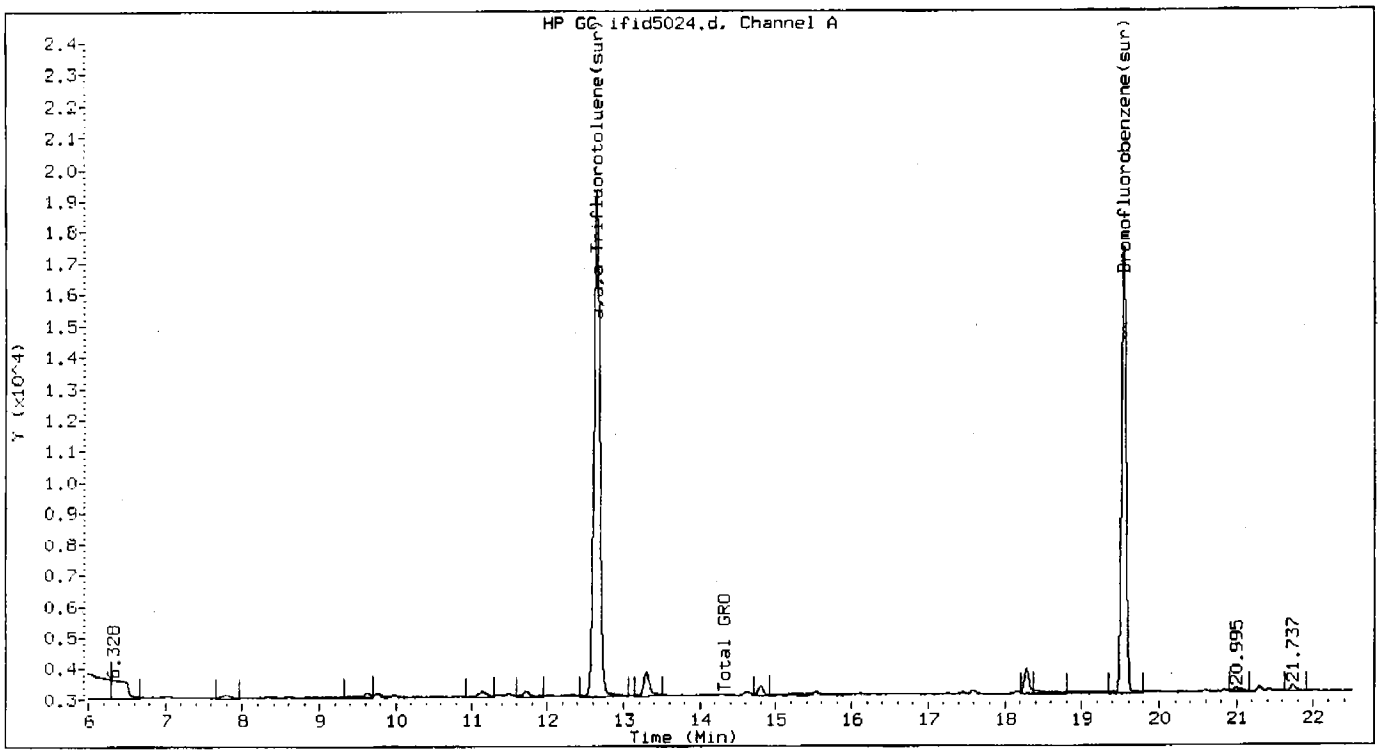
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5024.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.4

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6400

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5024.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02c.b/GRO_02.m
Sample Info : 392317;;50
Lab ID : 392317
Inj Date : 27-NOV-2002 01:26
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

JXZ

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.647	12.648	0.001	435884	21.165	2733.981
Bromofluorobenzene(sur)	19.532	19.530	0.003	277624	21.499	2777.134

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

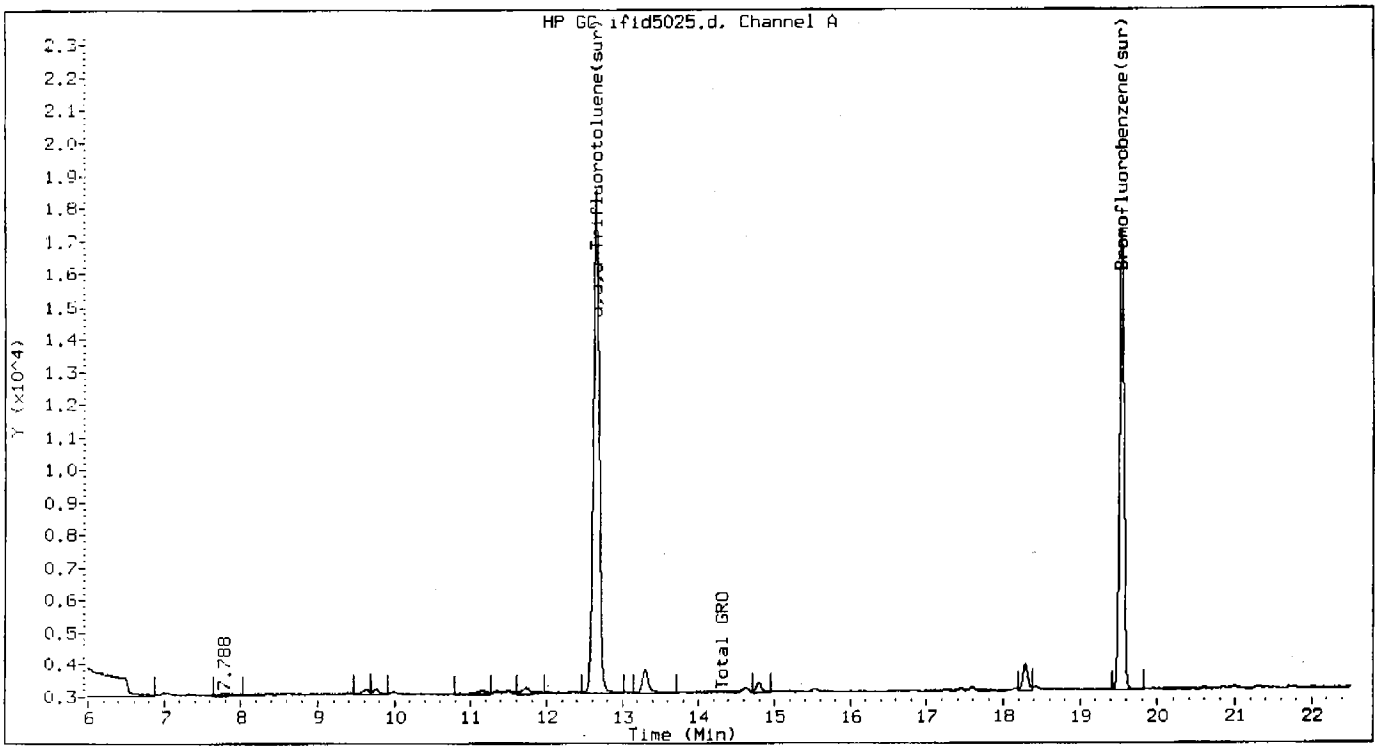
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5025.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.0

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6200

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5025.d Page 1
Report Date 11/27/2002 15:35



JXZ

Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02c.b/GRO_02.m
Sample Info : 392318;;50
Lab ID : 392318
Inj Date : 27-NOV-2002 01:57
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.648	12.648	0.001	419155	20.353	2536.472
Bromofluorobenzene(sur)	19.532	19.530	0.003	273985	21.217	2644.219

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

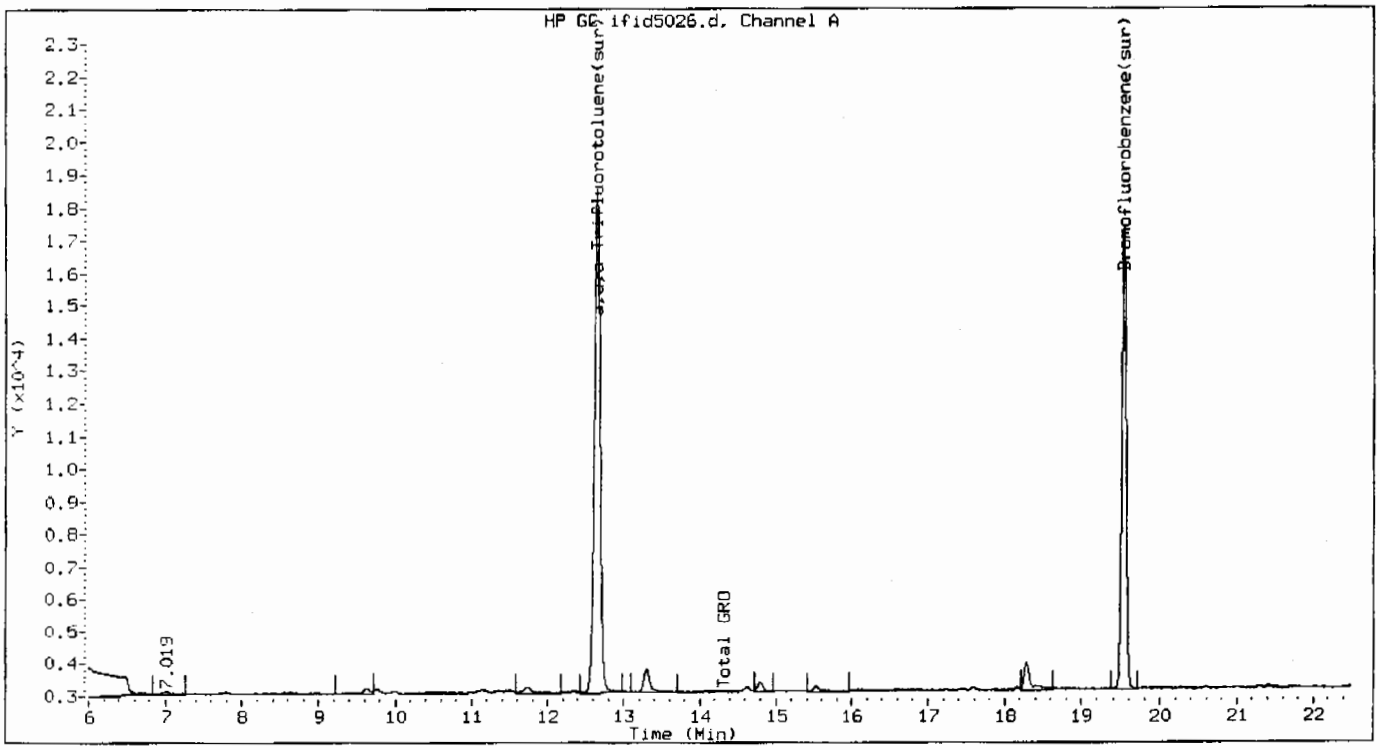
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5026.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12.2

GASOLINE RANGE ORGANICS - GC/FID (GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6600

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5026.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02c.b/GRO_02.m
Sample Info : 392319;;50
Lab ID : 392319
Inj Date : 27-NOV-2002 02:28
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.646	12.648	0.002	414851	20.144	2655.402
Bromofluorobenzene(sur)	19.532	19.530	0.002	275036	21.299	2807.649

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

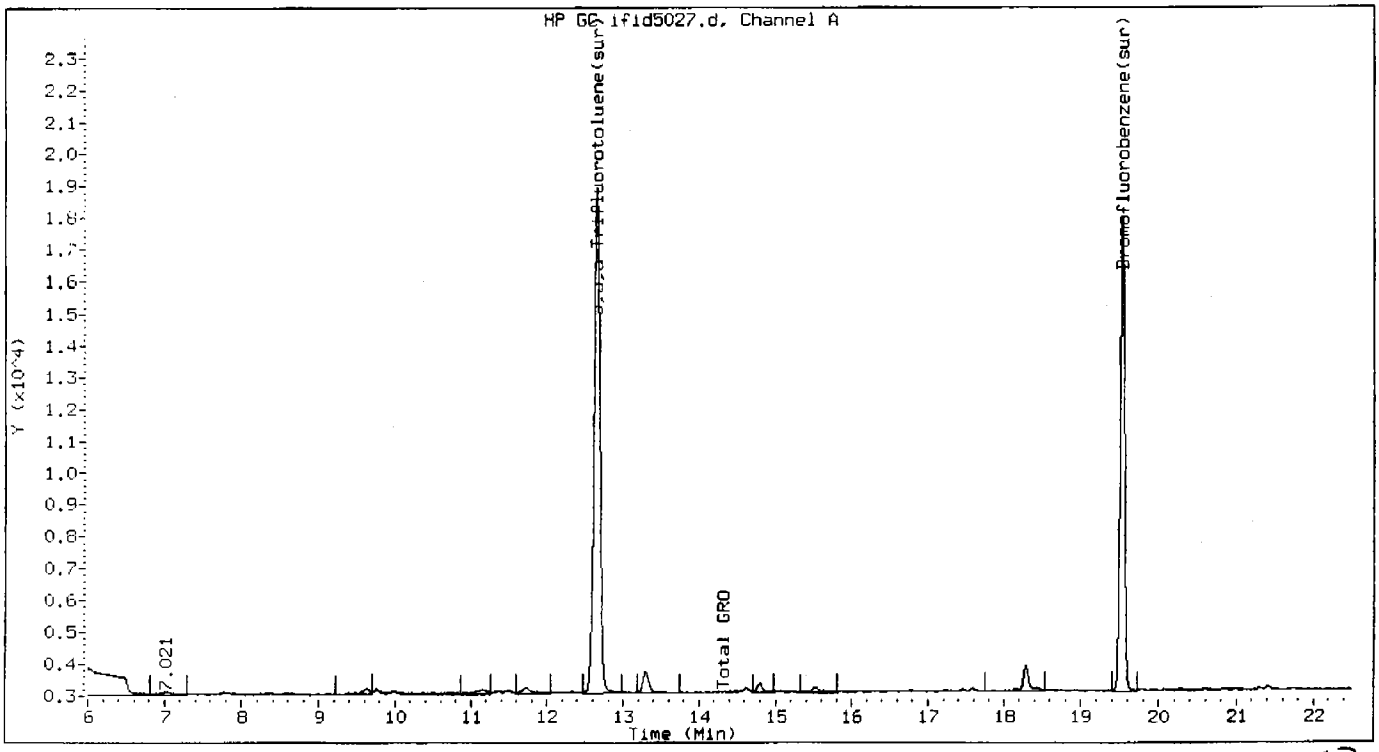
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5027.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.5

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5800

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5027.d Page 1
Report Date 11/27/2002 15:35



J X Z

Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02c.b/GRO_02.m
Sample Info : 392920;;50
Lab ID : 392320
Inj Date : 27-NOV-2002 02:58
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.646	12.648	0.003	424303	20.603	2385.225
Bromofluorobenzene(sur)	19.530	19.530	0.001	283031	21.918	2537.479

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

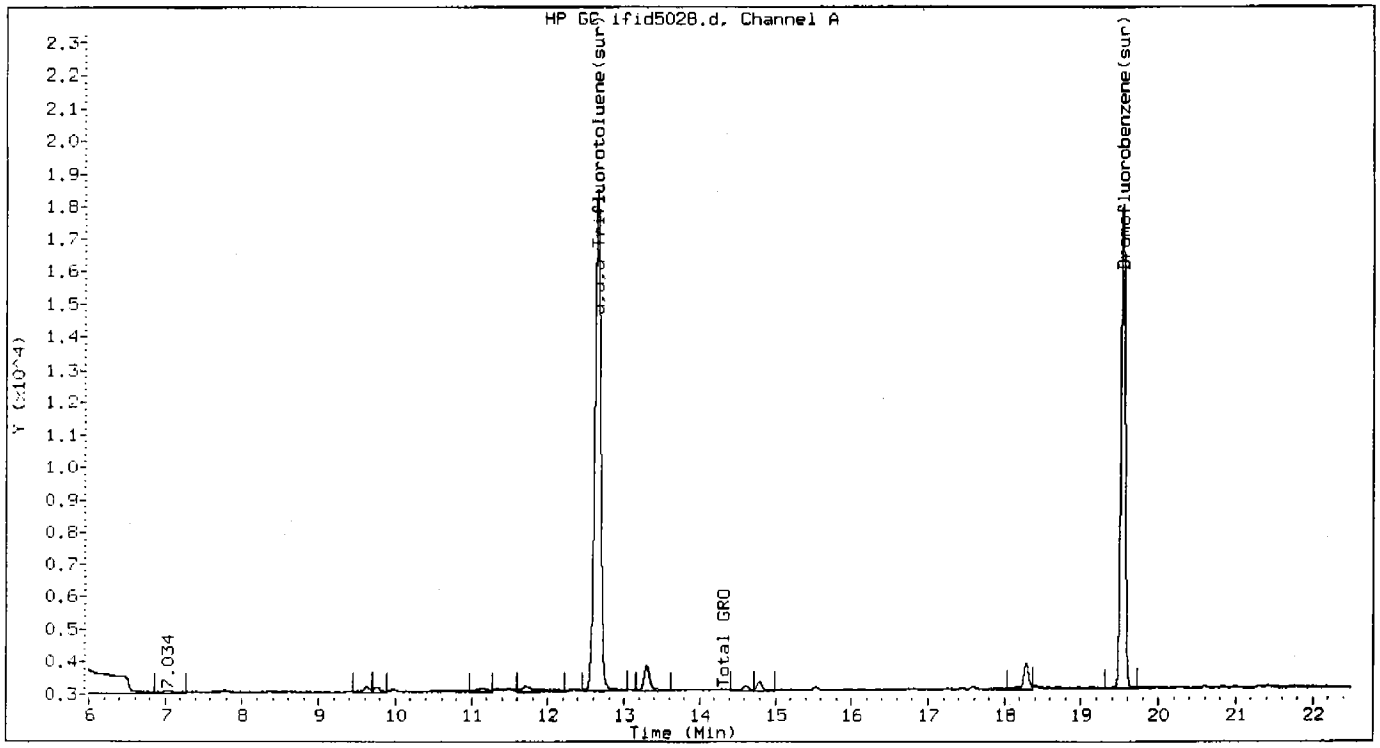
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5028.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.0

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6000

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5028.d Page 1
Report Date 11/27/2002 15:35



J x Z

Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02c.b/GRO_02.m
Sample Info : 392321;;50
Lab ID : 392321
Inj Date : 27-NOV-2002 03:29
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.645	12.648	0.003	418662	20.329	2419.624
Bromofluorobenzene(sur)	19.531	19.530	0.001	285604	22.117	2632.473

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

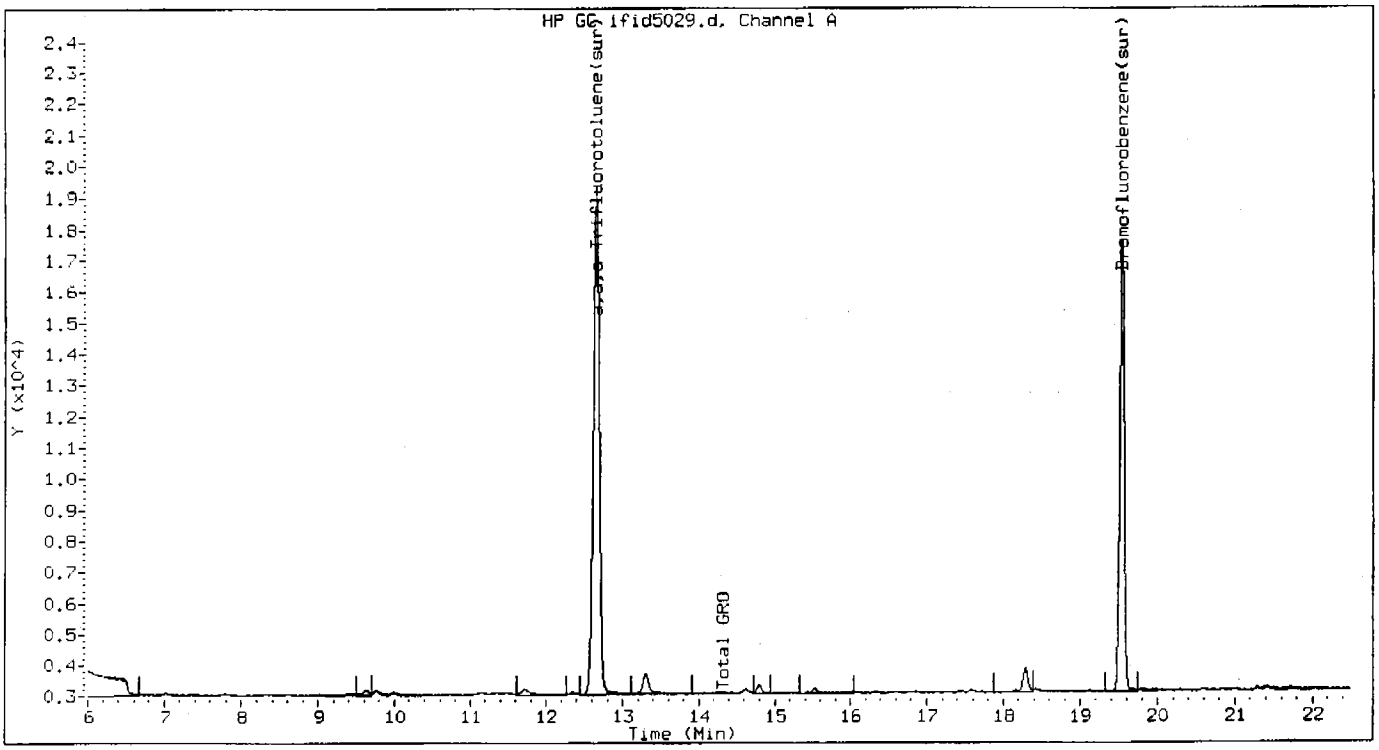
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5029.d

Matrix: SOIL
Level: MED
Sample Weight: 11 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6600

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5029.d Page 1
Report Date 11/27/2002 15:35



JXZ

Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02c.b/GRO_02.m
Sample Info : 392322;;50
Lab ID : 392322
Inj Date : 27-NOV-2002 04:00
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.648	12.648	0.001	440708	21.399	2811.303
Bromofluorobenzene(sur)	19.532	19.530	0.003	282808	21.900	2877.157

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

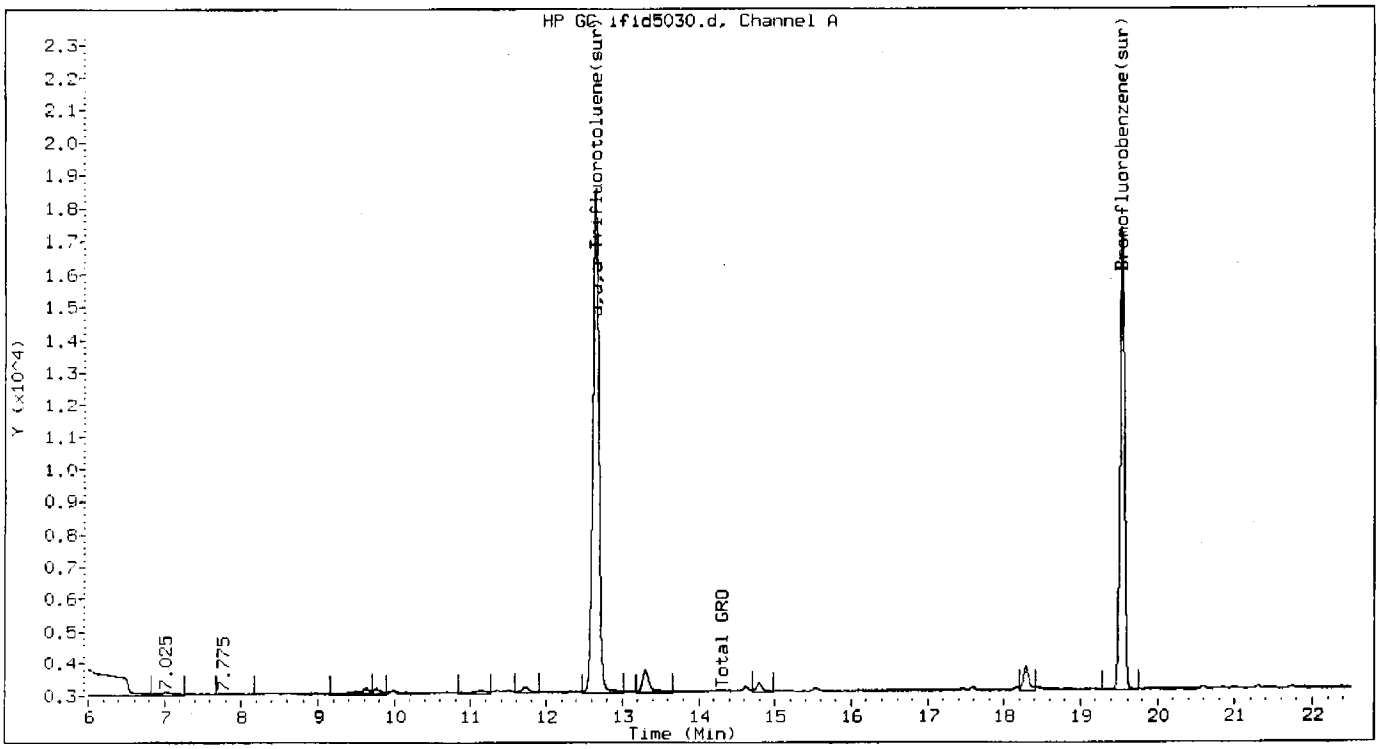
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5030.d

Matrix: SOIL
Level: MED
Sample Weight: 12 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

GASOLINE RANGE ORGANICS - GC/FID (GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	6200

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5030.d Page 1
Report Date 11/27/2002 15:35



J x 2

Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02c.b/GRO_02.m
Sample Info : 392323;;50
Lab ID : 392323
Inj Date : 27-NOV-2002 04:31
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.647	12.648	0.001	419763	20.382	2514.703
Bromofluorobenzene(sur)	19.532	19.530	0.002	276500	21.412	2641.758

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

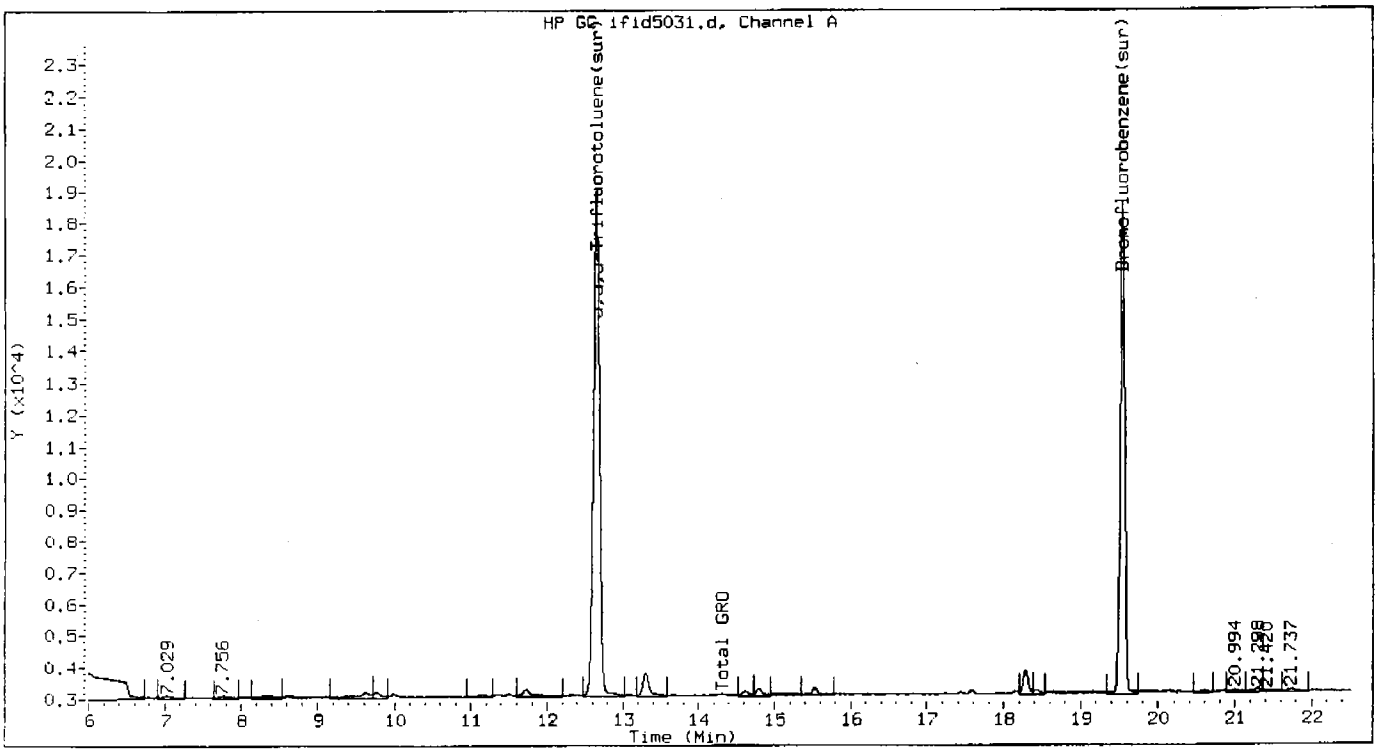
Date Sampled: 11/20/02
Date Received: 11/20/02
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5031.d

Matrix: SOIL
Level: MED
Sample Weight: 10 g
Extract Final Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.9

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	7000

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5031.d Page 1
Report Date 11/27/2002 15:36



J x Z

Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02c.b/GRO_02.m
Sample Info : 392324;;50
Lab ID : 392324
Inj Date : 27-NOV-2002 05:01
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.646	12.648	0.002	434828	21.114	2936.958
Bromofluorobenzene(sur)	19.530	19.530	0.001	299205	23.170	3223.030

Method Blank Results Summary

LAB SAMPLE NO.

GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

IG330M

Date Analyzed: 11/26/02

Instrument ID: VOAGC3

Time Analyzed: 1727

Lab File ID: IFID5009

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	HA-01-03-0-6	392306	IFID5010	1815
02	HA-01-04-0-6	392307	IFID5011	1846
03	HA-01-02-0-6	392308	IFID5012	1917
04	HA-01-12-0-6	392309	IFID5013	1948
05	HA-01-11-0-6	392310	IFID5014	2018
06	HA-01-10-0-6	392311	IFID5015	2049
07	HA-01-09-0-6	392312	IFID5016	2120
08	HA-01-08-0-6	392313	IFID5017	2151
09	HA-01-07-0-6	392314	IFID5018	2221
10	HA-01-06-0-6	392315	IFID5019	2252
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

Client ID: **IG330M**
Site:

Lab Sample No: **IG330M**
Lab Job No: D092

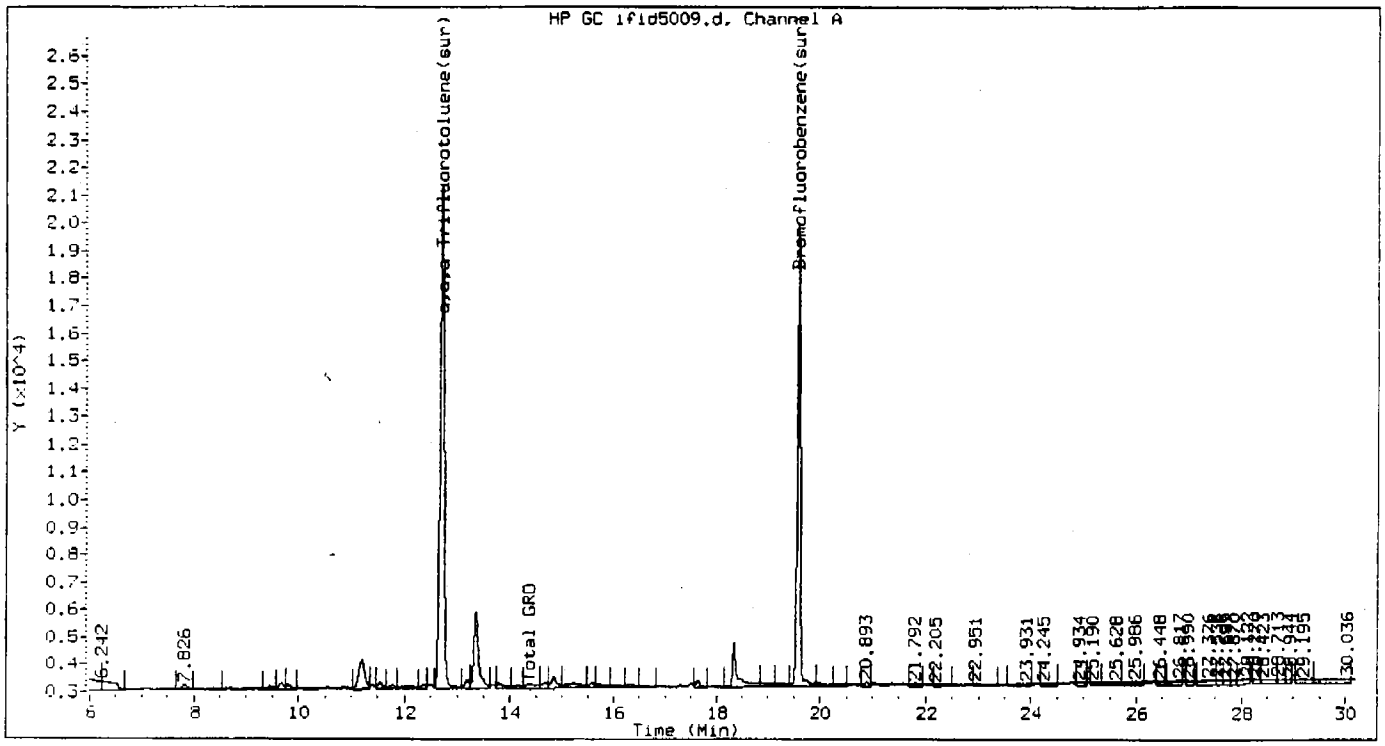
Date Sampled: _____
Date Received: _____
Date Analyzed: 11/26/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5009.d

Matrix: SOIL
Level: MED
Sample Weight: 5 g
Extract Final Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5000

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5009.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : IG330M
Lab ID : IG330M
Inj Date : 26-NOV-2002 17:27
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: BLANK

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.699	12.701	0.002	486655	23.630	2363.021
Bromofluorobenzene(sur)	19.583	19.580	0.002	337541	26.139	2613.895

GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

LAB SAMPLE NO.

IG330MB

Date Analyzed: 11/27/02

Instrument ID: VOAGC3

Time Analyzed: 0025

Lab File ID: IFID5022

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	HA-01-05-0-6	392316	IFID5023	0055
02	HA-02-08-0-6	392317	IFID5024	0126
03	HA-02-04-0-6	392318	IFID5025	0157
04	HA-02-03-0-6	392319	IFID5026	0228
05	HA-02-02-0-6	392320	IFID5027	0258
06	HA-02-06-0-6	392321	IFID5028	0329
07	HA-02-05-0-6	392322	IFID5029	0400
08	HA-02-07-0-6	392323	IFID5030	0431
09	HA-01-DUP	392324	IFID5031	0501
10	HA-01-05-0-6	392316MS	IFID5034	0753
11	HA-01-05-0-6	392316MSD	IFID5035	0824
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

Client ID: **IG330MB**
Site:

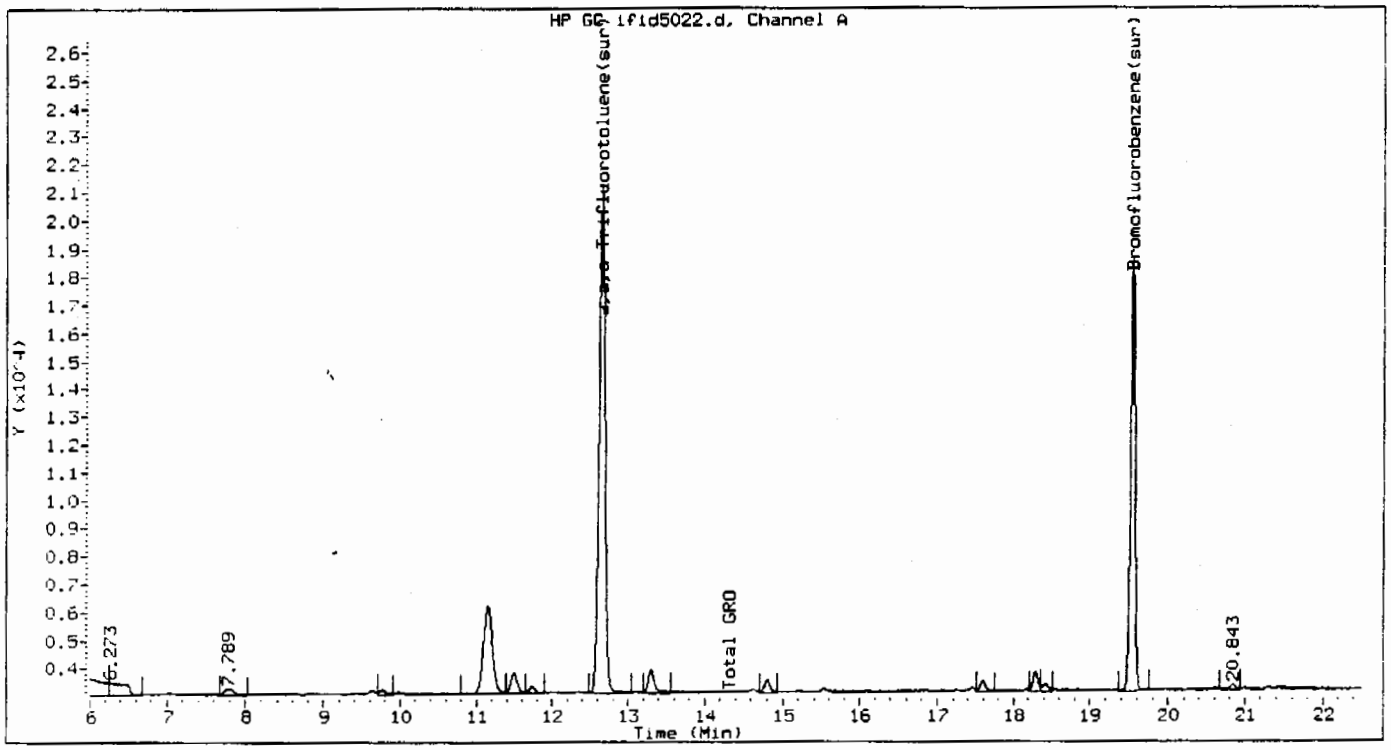
Lab Sample No: **IG330MB**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Analyzed: 11/27/02
GC Column: DB-624
Instrument ID: VOAGC3.i
Lab File ID: ifid5022.d

Matrix: SOIL
Level: MED
Sample Weight: 5 g
Extract Final Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

GASOLINE RANGE ORGANICS - GC/FID
(GRO)

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Total GRO	ND	5000



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02c.b/GRO_02.m
Sample Info : IG330MB
Lab ID : IG330MB
Inj Date : 27-NOV-2002 00:25
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: BLANK

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
a,a,a-Trifluorotoluene(sur)	12.649	12.648	0.001	487198	23.657	2365.657
Bromofluorobenzene(sur)	19.535	19.530	0.005	302690	23.440	2344.011

Standards Summary

GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA

Instrument ID: VOAGC3

Calibration Date(s): 11/20/02 11/20/02

Calibration Time(s): 1006 1210

LAB FILE ID: RRF50: IFID4893 RRF100: IFID4892 RRF200: IFID4891
RRF500: IFID4890 RRF1000: IFID4889

COMPOUND	RRF50	RRF100	RRF200	RRF500	RRF1000
Total GRO	25761	24938	26157	24640	25090
a,a,a-Trifluorotoluene(sur)	21433	21083	20497	19719	20241
Bromofluorobenzene(sur)	12766	12438	12970	12862	13532

GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA

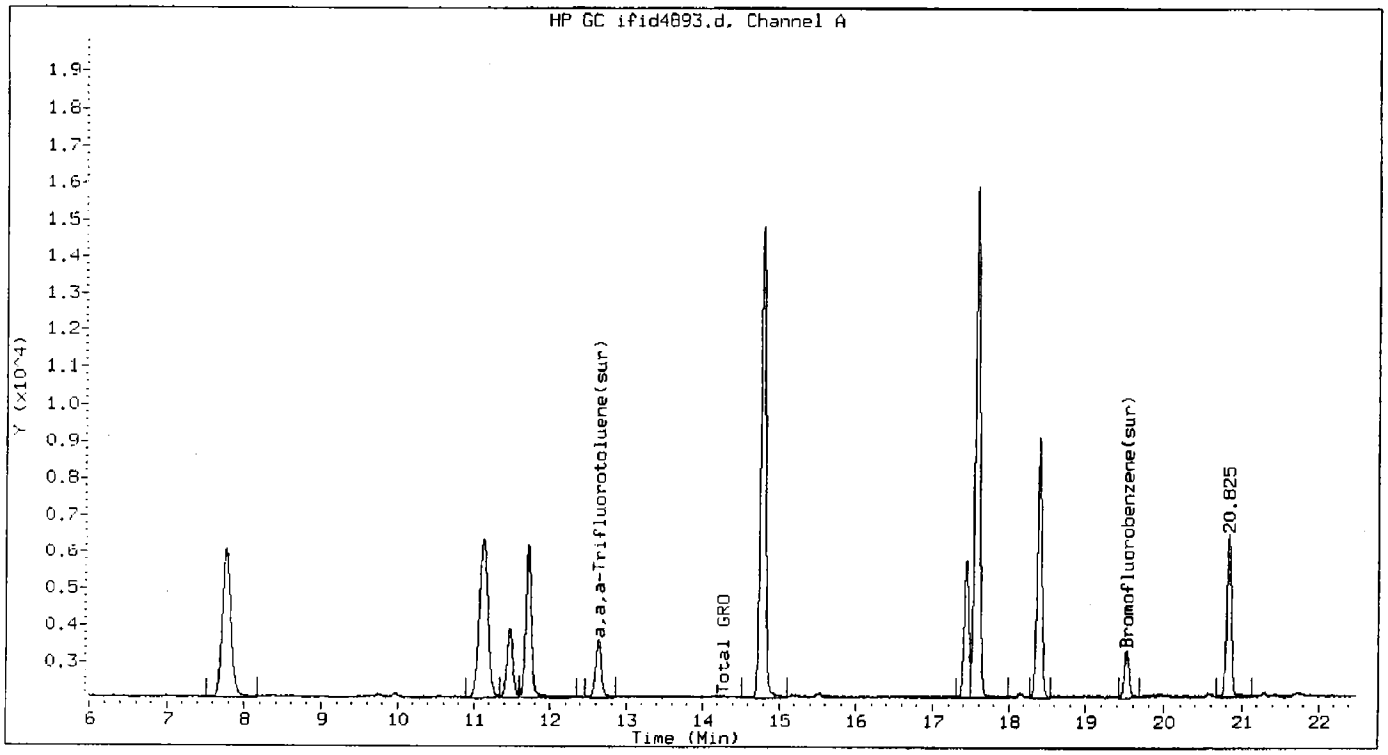
Instrument ID: VOAGC3

Calibration Date(s): 11/20/02 11/20/02

Calibration Time(s): 1006 1210

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Total GRO	AVRG	25317	2.5*
a,a,a-Trifluorotoluene(sur)	AVRG	20595	3.3*
Bromofluorobenzene(sur)	AVRG	12913	3.1*

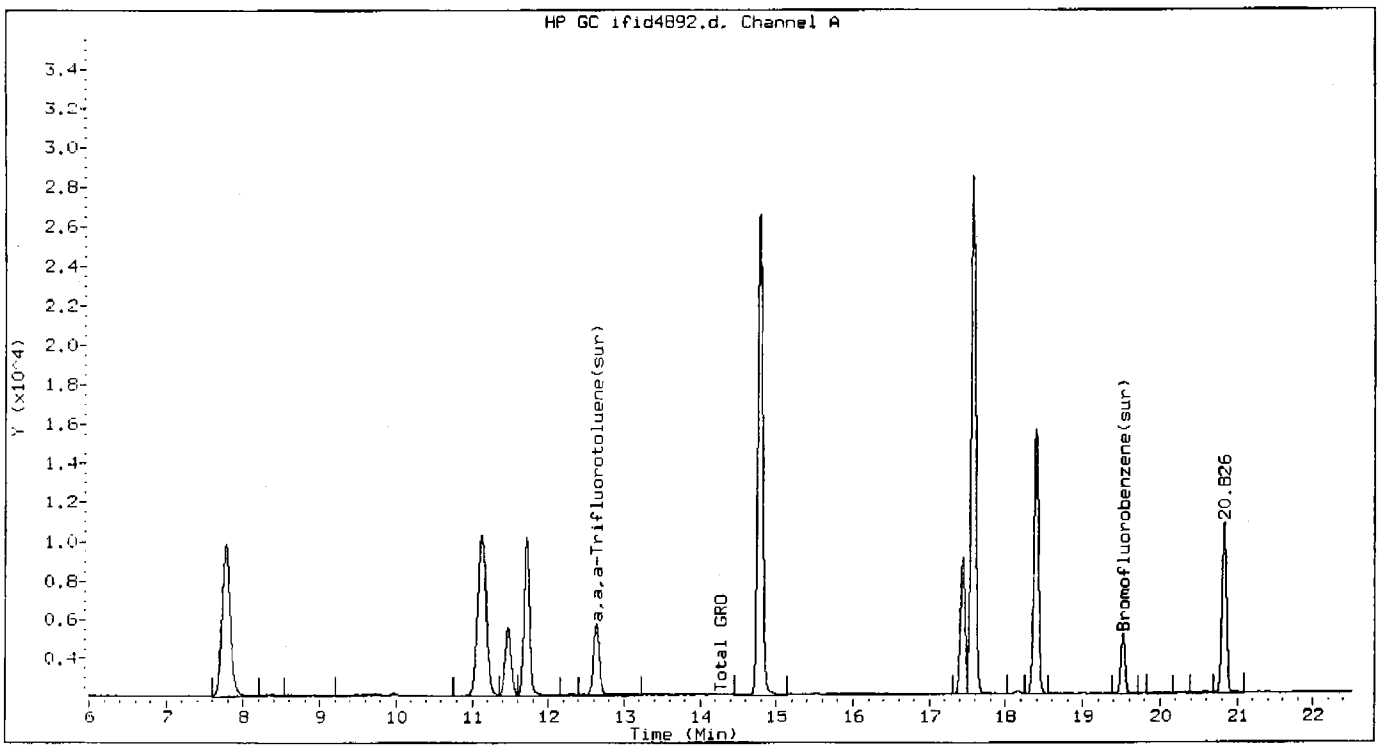
* Compounds with required maximum %RSD values.



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/20nov02.b/GRO_02.m
Sample Info : ISTD0050
Lab ID : ISTD0050
Inj Date : 20-NOV-2002 12:10
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_1

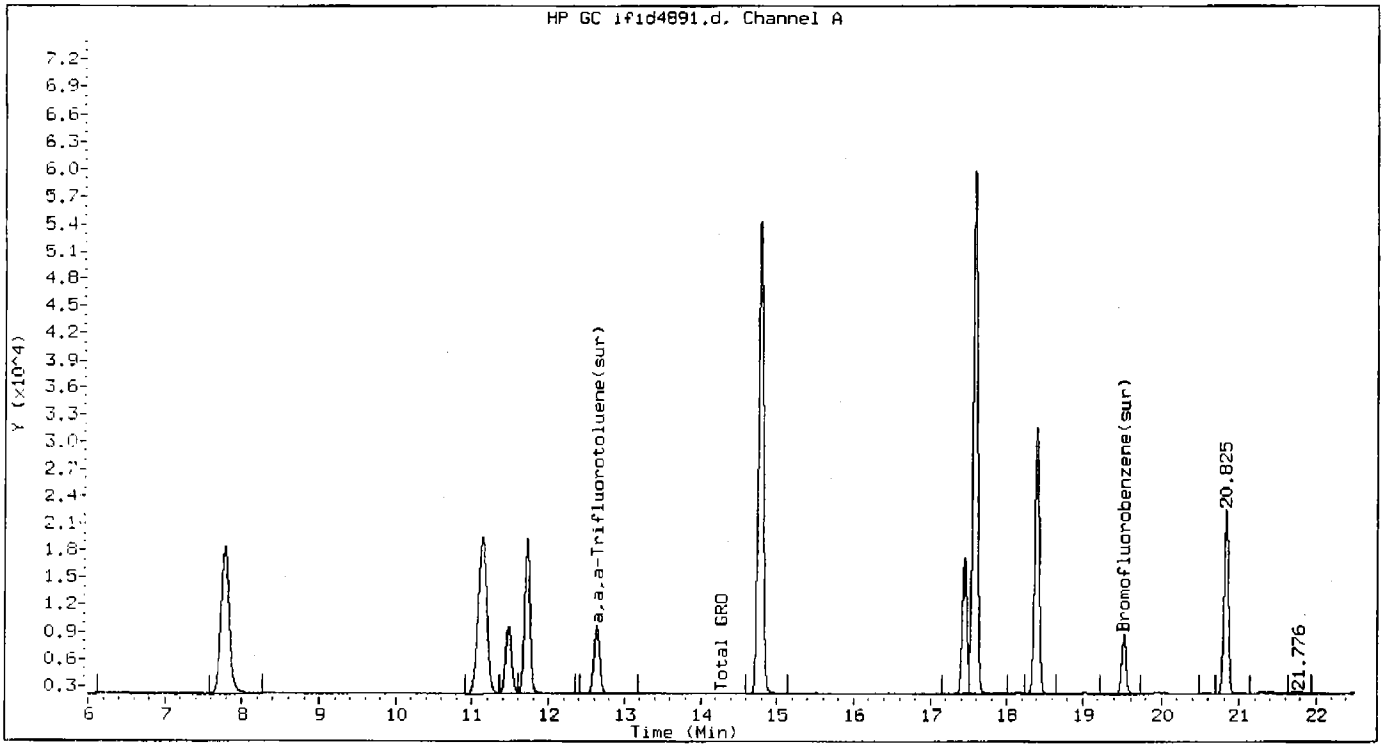
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
Total GRO	14.278	14.278	0.000	1288064	50.877	50.877
a,a,a-Trifluorotoluene(sur)	12.631	12.636	0.005	42866	2.081	2.081
Bromofluorobenzene(sur)	19.517	19.518	0.001	25531	1.977	1.977



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/20nov02.b/GRO_02.m
Sample Info : ISTD0100
Lab ID : ISTD0100
Inj Date : 20-NOV-2002 11:39
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_2

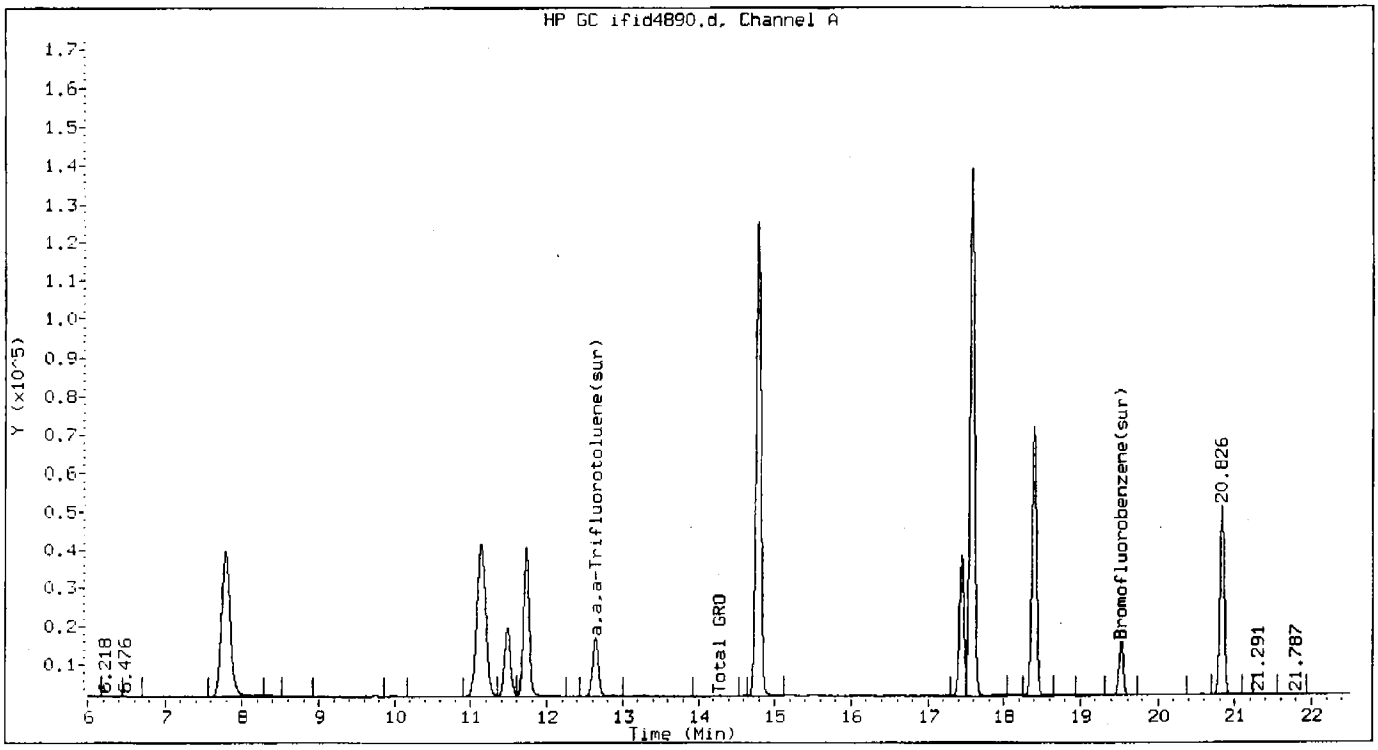
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
Total GRO	14.278	14.278	0.000	2493857	98.504	98.504
a,a,a-Trifluorotoluene(sur)	12.632	12.636	0.004	105413	5.118	5.118
Bromofluorobenzene(sur)	19.517	19.518	0.001	62191	4.816	4.816



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/20nov02.b/GRO_02.m
Sample Info : ISTD0200
Lab ID : ISTD0200
Inj Date : 20-NOV-2002 11:08
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

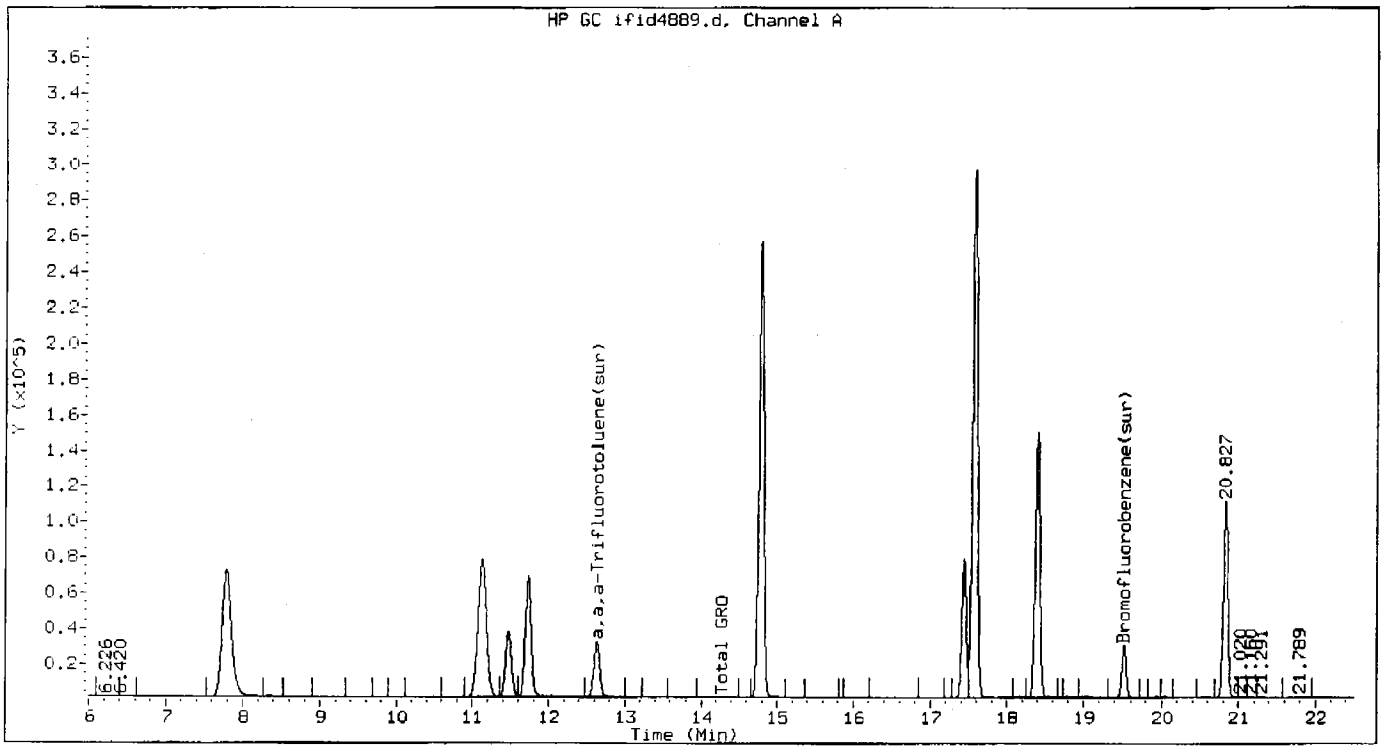
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
Total GRO	14.278	14.278	0.000	5231420	206.634	206.634
a,a,a-Trifluorotoluene(sur)	12.635	12.636	0.001	204972	9.953	9.953
Bromofluorobenzene(sur)	19.517	19.518	0.001	129697	10.044	10.044



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/20nov02.b/GRO_02.m
Sample Info : ISTD0500
Lab ID : ISTD0500
Inj Date : 20-NOV-2002 10:37
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_4

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
Total GRO	14.278	14.278	0.000	12319991	486.623	486.623
a,a,a-Trifluorotoluene(sur)	12.636	12.636	0.000	394381	19.150	19.150
Bromofluorobenzene(sur)	19.518	19.518	0.000	257230	19.920	19.920



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/20nov02.b/GRO_02.m
Sample Info : ISTD1000
Lab ID : ISTD1000
Inj Date : 20-NOV-2002 10:06
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_5

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
Total GRO	14.278	14.278	0.000	25089630	991.007	991.007
a,a,a-Trifluorotoluene(sur)	12.635	12.636	0.001	809649	39.314	39.314
Bromofluorobenzene(sur)	19.518	19.518	0.000	541271	41.916	41.916

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION CHECK

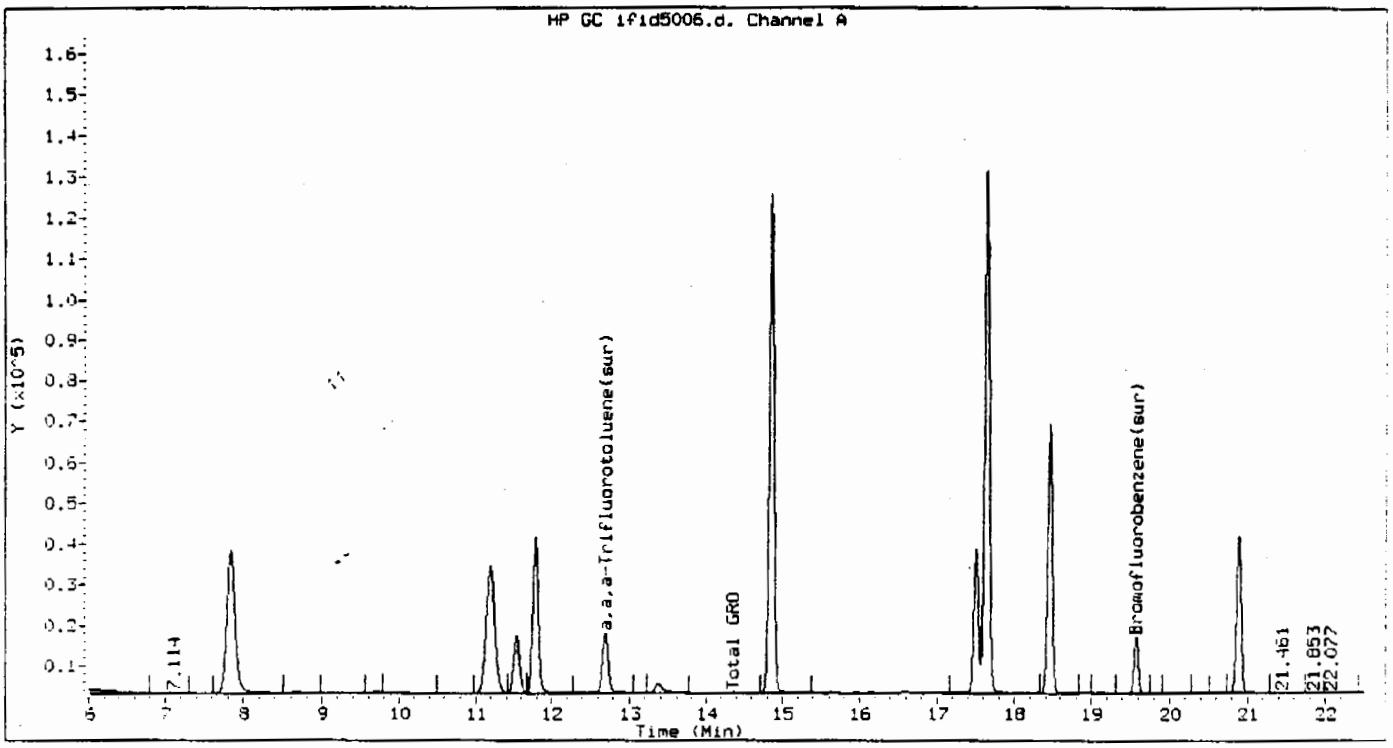
Instrument ID: VOAGC3 Calibration Date: 11/26/02 Time: 1554

Lab File ID: IFID5006 Init. Calib. Date(s): 11/20/02 11/20/02

Heated Purge: (Y/N) N Init. Calib. Times: 1006 1210

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Total GRO	25317.31	24958.33		1.4	15.0
a,a,a-Trifluorotoluene(sur)	20594.61	20144.05		2.2	15.0
Bromofluorobenzene(sur)	12913.34	13382.80		-3.6	15.0

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/ifid5006.d Page 1
Report Date 11/27/2002 15:35



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : ISTD330A
Lab ID : ISTD330A
Inj Date : 26-NOV-2002 15:54
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_4

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
Total GRO	14.363	14.363	0.000	12479166	492.910	492.910
a,a,a-Trifluorotoluene(sur)	12.701	12.701	0.000	402881	19.562	19.562
Bromofluorobenzene(sur)	19.580	19.580	0.000	267656	20.727	20.727

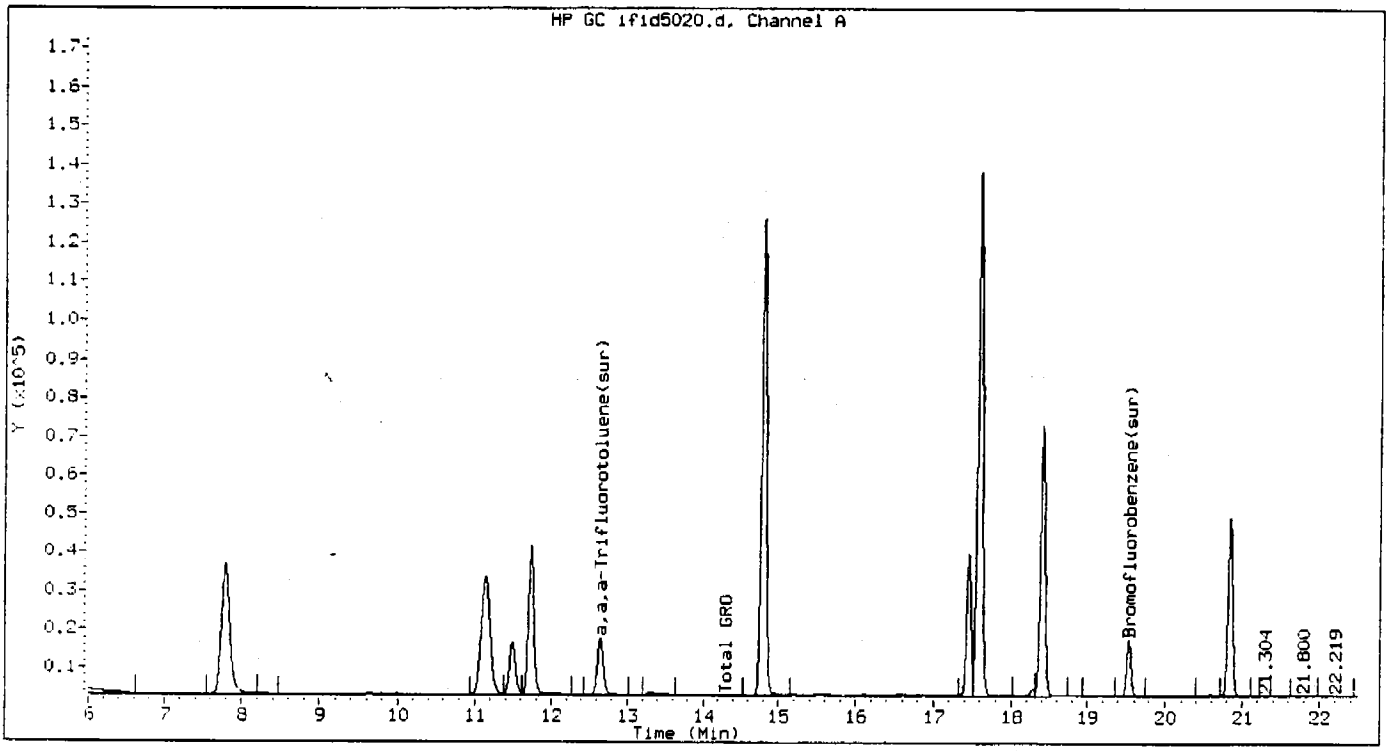
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION CHECK

Instrument ID: VOAGC3 Calibration Date: 11/26/02 Time: 2323

Lab File ID: IFID5020 Init. Calib. Date(s): 11/20/02 11/20/02

Heated Purge: (Y/N) N Init. Calib. Times: 1006 1210

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Total GRO	25317.31	25419.84		-0.4	15.0
a,a,a-Trifluorotoluene(sur)	20594.61	19719.20		4.2	15.0
Bromofluorobenzene(sur)	12913.34	14039.10		-8.7	15.0



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/GRO_02.m
Sample Info : ISTD330B
Lab ID : ISTD330B
Inj Date : 26-NOV-2002 23:23
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_4

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
Total GRO	14.315	14.315	0.000	12709922	502.025	502.025
a,a,a-Trifluorotoluene(sur)	12.647	12.647	0.000	394384	19.150	19.150
Bromofluorobenzene(sur)	19.532	19.532	0.000	280782	21.744	21.744

Surrogate Compound Recovery Summary

GASOLINE RANGE ORGANICS SYSTEM MONITORING COMPOUND RECOVERY

Matrix: SOIL Level: MED Lab Job No: D092

	LAB SAMPLE NO.	SMC1 #	SMC2 #	OTHER	TOT OUT
01	IG330M	94	104		0
02	392306	83	88		0
03	392307	84	90		0
04	392308	84	92		0
05	392309	87	97		0
06	392310	82	91		0
07	392311	79	89		0
08	392312	85	93		0
09	392313	81	87		0
10	392314	85	90		0
11	392315	86	93		0
12	IG330MB	95	94		0
13	392316	83	86		0
14	392317	85	86		0
15	392318	81	85		0
16	392319	80	85		0
17	392320	82	88		0
18	392321	81	88		0
19	392322	86	88		0
20	392323	82	86		0
21	392324	84	93		0
22	392316MS	90	85		0
23	392316MSD	95	100		0
24					
25					
26					
27					
28					
29					
30					

		QC LIMITS
SMC1	= a,a,a-Trifluorotoluene	(60-136)
SMC2	= Bromofluorobenzene(sur	(49-151)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

page 1 of 1

Spike Recovery Summary

GASOLINE RANGE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
GRO

Matrix: SOIL

Level: MED

Matrix Spike - Lab Sample No.: 392316

MS Sample from Lab Job No: D092

QA Batch: 0563

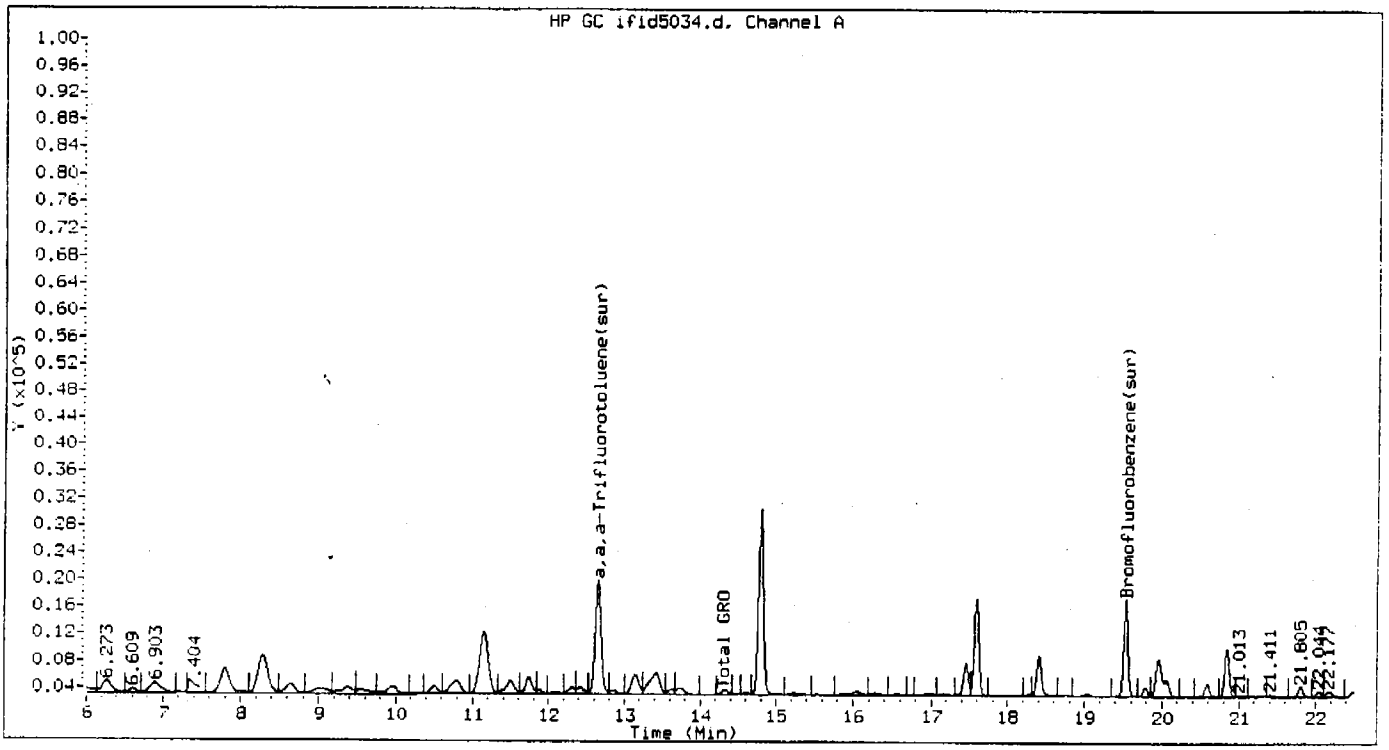
Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Total GRO	28000	0.00	20000	71	36-133

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total GRO	28000	21000	75	5	40	36-133

Column to be used to flag recovery and RPD values with an asterik
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5034.d Page 1
Report Date 11/27/2002 15:36

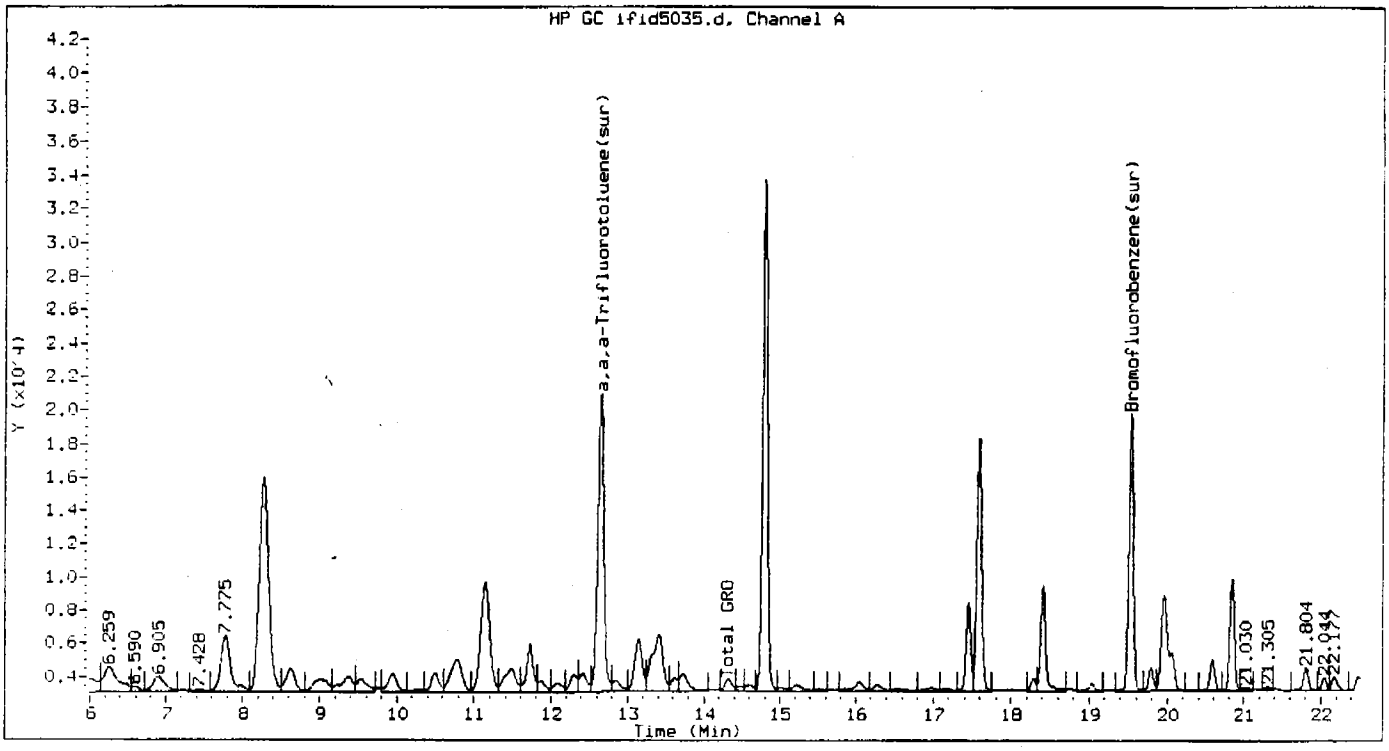


Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/GRO_02.m
Sample Info : 392316MS;;50
Lab ID : 392316MS
Inj Date : 27-NOV-2002 07:53
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: MS

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
Total GRO	14.315	14.315	0.000	3535107	139.632	19766.705
a,a,a-Trifluorotoluene(sur)	12.650	12.647	0.003	462034	22.435	3175.920
Bromofluorobenzene(sur)	19.532	19.532	0.000	273680	21.194	3000.226

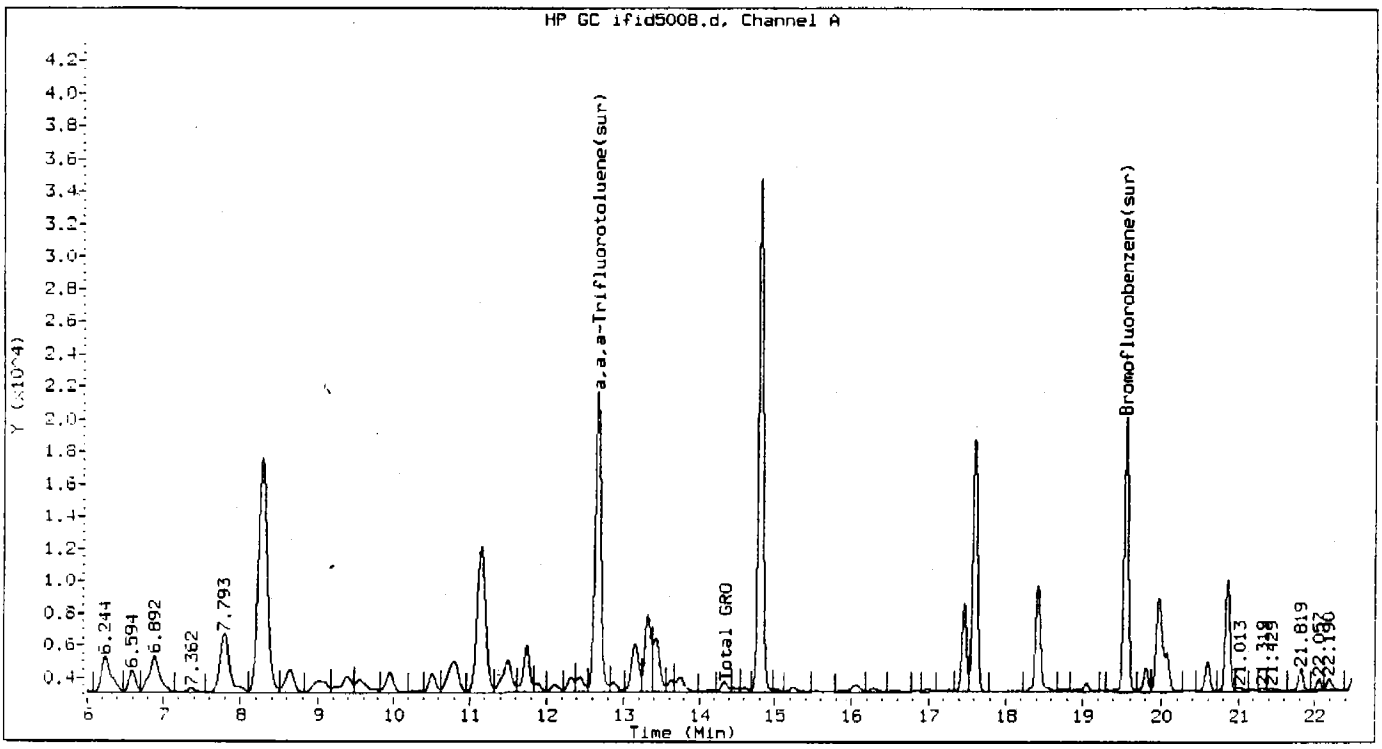
Data File: /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/ifid5035.d Page 1
Report Date 11/27/2002 15:36



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02b.b/GRO_02.m
Sample Info : 392316MSD;;50
Lab ID : 392316MSD
Inj Date : 27-NOV-2002 08:24
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: MSD

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
Total GRO	14.315	14.315	0.000	3732963	147.447	20873.025
a,a,a-Trifluorotoluene(sur)	12.645	12.647	0.002	488797	23.734	3359.883
Bromofluorobenzene(sur)	19.531	19.532	0.001	321634	24.907	3525.923



Method : /chem/VOAGC3.i/GROSOIL/11-20-02/26nov02a.b/GRO_02.m
Sample Info : 0563BS
Lab ID : 0563BS
Inj Date : 26-NOV-2002 16:56
Operator :
Cpnd Sublist: all

Inst ID : VOAGC3.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: METHSPIKE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	CONCENTRATIONS FINAL (ug/Kg)
Total GRO	14.363	14.363	0.000	3897038	153.928	15392.779
a,a,a-Trifluorotoluene(sur)	12.660	12.701	0.041	496618	24.114	2411.397
Bromofluorobenzene(sur)	19.545	19.580	0.036	327827	25.387	2538.670

Injection Log Book

Notebook No.

Continued From Page

4903	15	ISTD234A
4904	16	387163ms
4905	17	387163msD
4906	18	BS-500ppb
4907	19	500ppb-BTX new
4908	20	ISTD 234A
4909	21	ISTD324A

C252 05S8 5g/40ml 100x 100µl

11/21/02

G (N.d.)
G N-d
N.d.
N.d
G N.d

JX2

Continued on Page

Read and Understood By

mnaz
Signed

11/21/02
Date

Notebook No. _____
Continued From Page _____

PROJECT GC3 Injlog GRO

Date	Datafile	ALS	Sample	JOB	QA	wt/vol	D.F.	vol INJ	Sublist	pH	LPB	std lot#	Comments
11/26/02	I4994	1	ISTD330									V02	NG
26	4996	2	ISTD330									-725	NG
	4997	3	ISTD330									-726	G
(D)	4998	4	IG330 BS									-727	G (NUL)
12/2/02	4999	5	IG330						All				G
	5000	6	392098	D009	0557	~~D00~~	x1	5ml			IG330		G
	5001	7	392097										G
	5002	8	392095										G
	5003	9	391735										G
	5004	10	391732										flame out
	5005	11	391732				x2	2.5ml					flame out
	5006	12	ISTD330A										G
	5007	13	ISTD330A										NU
	5008	14	0563 BS										G
	5009	15	IG330M										G
	5010	16	392306	D092	0563	11.5/25	x50	100µl			IG330M		G
	5011	17	392307			10.8/25							G
	5012	18	392308			11.7/25							G
	5013	19	392309			10.7/25							G
	5014	20	392310			11.8/25							G
	5015	21	392311			11.0/25							G
	5016	22	392312			10.7/25							G
	5017	23	392313			11.8/25							G
	5018	24	392314			12.1/25							G
	5019	25	392315			11.7/25							G
	5020	26	ISTD330B										NU
	5021	27	ISTD330B										G
	5022	28	IG330M13										G
	5023	29	392316	D092	0563	10/25	x50	100µl			IG330M13		

Read and Understood By: John Zhang 11/26/02 [signature] 12/27/02

Continued on Page

3 Injlog GRO

Notebook No. ______

Continued From Page ______

G G G G G (N.U.) N-U G G G

Jx2

100 µl

x 50

10.8/25 10.8/25 11.5/25 10.2/25

10/25 10/25 10/25

GC/MS Forms and Data (Semivolatiles)

Results Summary and Chromatograms

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8122.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	360
2-Chlorophenol	ND	360
2-Methylphenol	ND	360
4-Methylphenol	ND	360
2-Nitrophenol	ND	360
2,4-Dimethylphenol	ND	360
2,4-Dichlorophenol	ND	360
4-Chloro-3-methylphenol	ND	360
2,4,6-Trichlorophenol	ND	360
2,4,5-Trichlorophenol	ND	360
2,4-Dinitrophenol	ND	1400
4-Nitrophenol	ND	1400
4,6-Dinitro-2-methylphenol	ND	1400
Pentachlorophenol	ND	1400

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8122.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	36
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
bis(2-chloroisopropyl)ether	ND	360
N-Nitroso-di-n-propylamine	ND	36
Hexachloroethane	ND	36
Nitrobenzene	ND	36
Isophorone	ND	360
bis(2-Chloroethoxy)methane	ND	360
1,2,4-Trichlorobenzene	ND	36
Naphthalene	ND	360
4-Chloroaniline	ND	360
Hexachlorobutadiene	ND	72
2-Methylnaphthalene	ND	360
Hexachlorocyclopentadiene	ND	360
2-Chloronaphthalene	ND	360
2-Nitroaniline	ND	720
Dimethylphthalate	ND	360
Acenaphthylene	ND	360
2,6-Dinitrotoluene	ND	72
3-Nitroaniline	ND	720
Acenaphthene	ND	360
Dibenzofuran	ND	360
2,4-Dinitrotoluene	ND	72
Diethylphthalate	ND	360
4-Chlorophenyl-phenylether	ND	360
Fluorene	ND	360
4-Nitroaniline	ND	720
N-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	36
Phenanthrene	ND	360
Anthracene	ND	360

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8122.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	360
Di-n-butylphthalate	ND	360
Fluoranthene	9.0J	360
Pyrene	9.2J	360
Butylbenzylphthalate	ND	360
3,3'-Dichlorobenzidine	ND	720
Benzo(a)anthracene	ND	36
Chrysene	ND	360
bis(2-Ethylhexyl)phthalate	75 J	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	ND	36
Benzo(k)fluoranthene	ND	36
Benzo(a)pyrene	ND	36
Indeno(1,2,3-cd)pyrene	ND	36
Dibenz(a,h)anthracene	ND	36
Benzo(g,h,i)perylene	ND	360

Client ID: **HA-01-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392306**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8122.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 7.3

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. C14H30 Alkane	17.17	320	
2. C15H32 Alkane	18.05	320	
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 640

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8122.d
Report Date: 08-Dec-2002 07:02

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8122.d
Lab Smp Id: 392306 Client Smp ID: HA-01-03-0-6
Inj Date : 07-DEC-2002 12:06
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392306;888018
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/8270c1.m
Meth Date : 07-Dec-2002 07:19 wahied Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	7.30000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.623	10.594	(0.813)	2745163	76.0688	5500
$ 17 Phenol-d5 (SUR)	99	12.429	12.418	(0.951)	3208333	79.6210	5700
* 79 1,4-Dichlorobenzene-d4	152	13.064	13.062	(1.000)	759226	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.020	14.022	(0.920)	1250949	40.5495	2900
* 80 Naphthalene-d8	136	15.245	15.246	(1.000)	3160754	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.044	17.044	(0.937)	2378942	41.8729	3000
* 82 Acenaphthene-d10	164	18.188	18.185	(1.000)	1746061	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.491	19.493	(1.072)	584418	64.6096	4600
* 83 Phenanthrene-d10	188	20.663	20.661	(1.000)	3312045	40.0000	
56 Fluoranthene	202	22.667	22.681	(1.097)	10853	0.12552	9.0(a)
57 Pyrene	202	23.050	23.064	(0.918)	10816	0.12780	9.2(a)
$ 78 Terphenyl-d14 (SUR)	244	23.289	23.282	(0.928)	2220675	41.9040	3000
63 bis(2-Ethylhexyl)phthalate	149	25.032	25.041	(0.997)	57602	1.03948	75(a)
* 81 Chrysene-d12	240	25.099	25.108	(1.000)	2468558	40.0000	

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8122.d
Report Date: 08-Dec-2002 07:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 84 Perylene-d12	264	28.731	28.738	(1.000)	2465448	40.0000	

QC Flag Legend

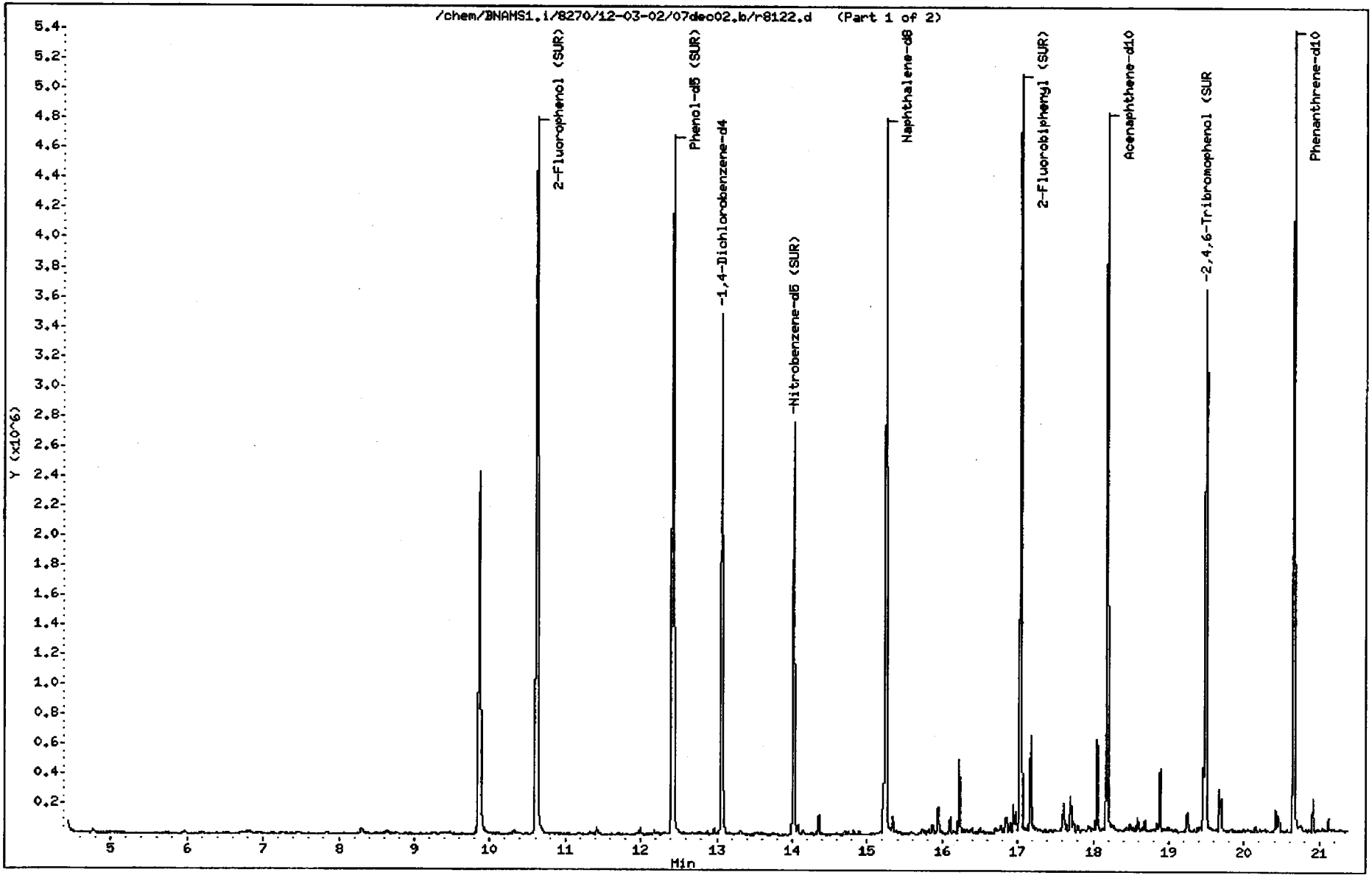
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8122.d
Date : 07-DEC-2002 12:06
Client ID: HA-01-03-0-6
Sample Info: 392306;888018

Column phase: DB-5

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25



551

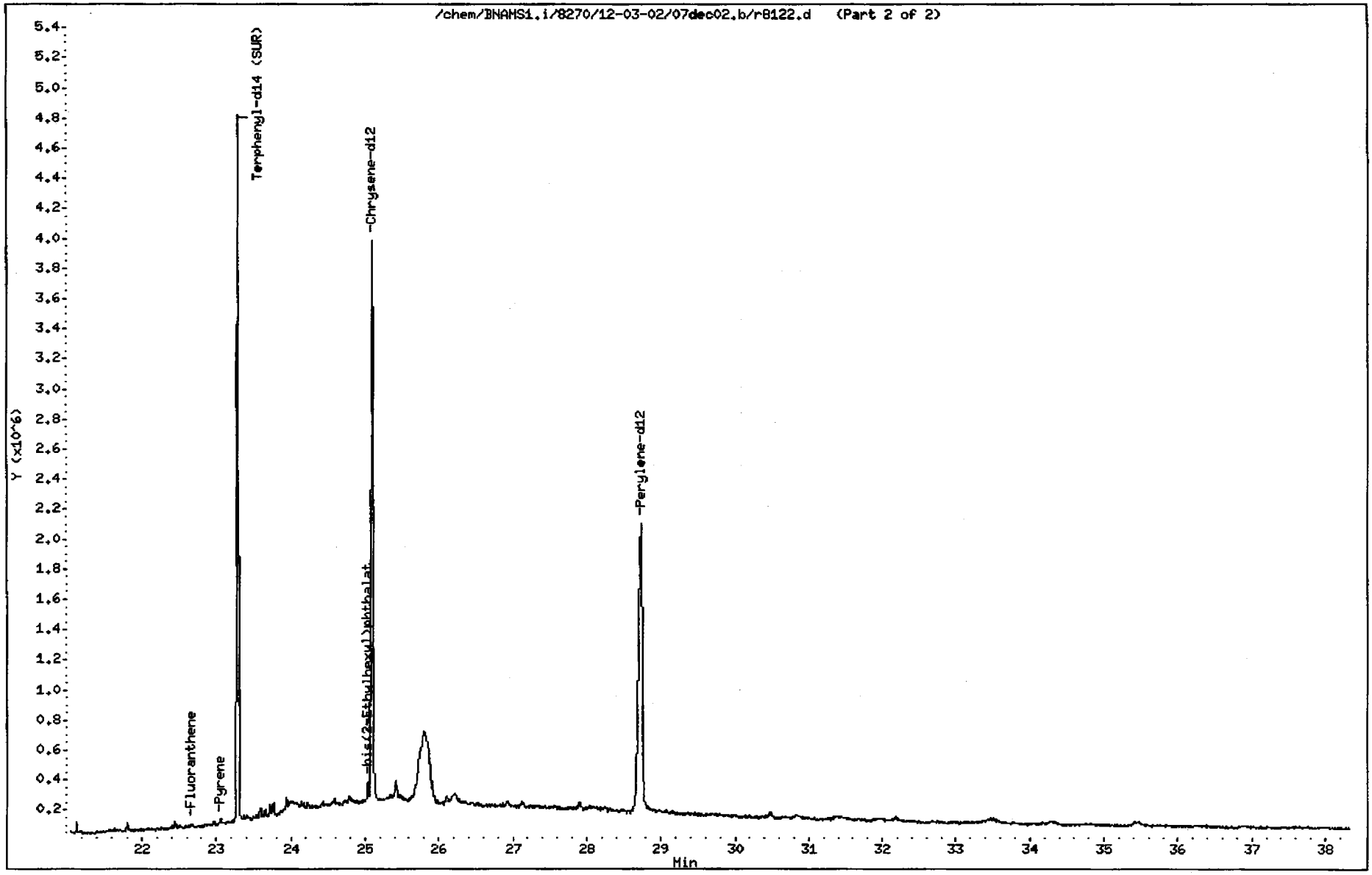
STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8122.d
Date : 07-DEC-2002 12:06
Client ID: HA-01-03-0-6
Sample Info: 392306;888018

Instrument: BNAMS1.i

Operator: BNAMS 4
Column phase: DB-5
Column diameter: 0.25



552

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8122.d

Date : 07-DEC-2002 12:06

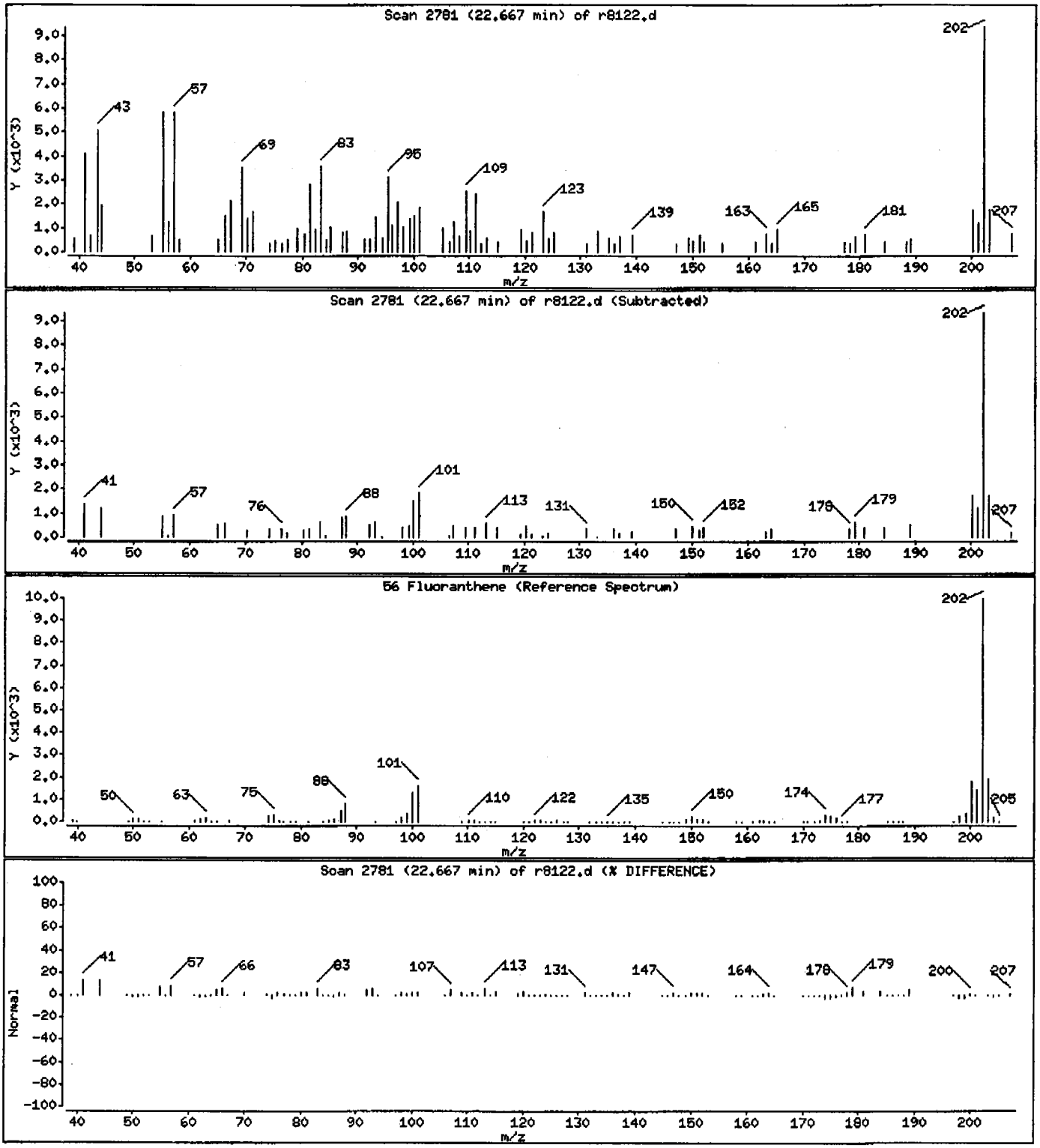
Client ID: HA-01-03-0-6 Instrument: BNAMS1.i

Sample Info: 392306;888018

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

56 Fluoranthene Concentration: 9.0 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8122.d

Date : 07-DEC-2002 12:06

Client ID: HA-01-03-0-6

Instrument: BNAMS1.i

Sample Info: 392306;888018

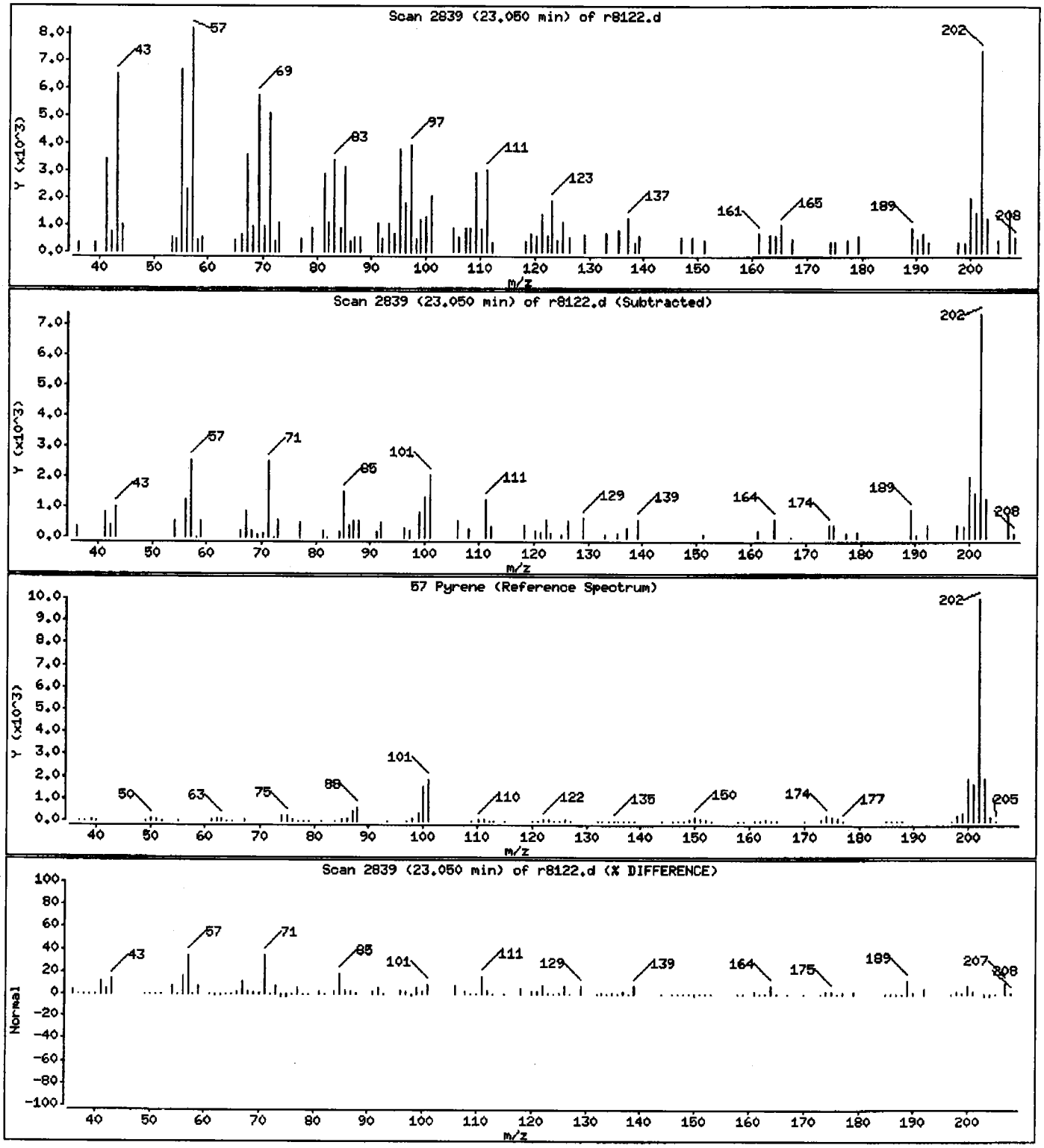
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 9.2 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8122.d

Date : 07-DEC-2002 12:06

Client ID: HA-01-03-0-6

Instrument: BNAMS1.i

Sample Info: 392306;888018

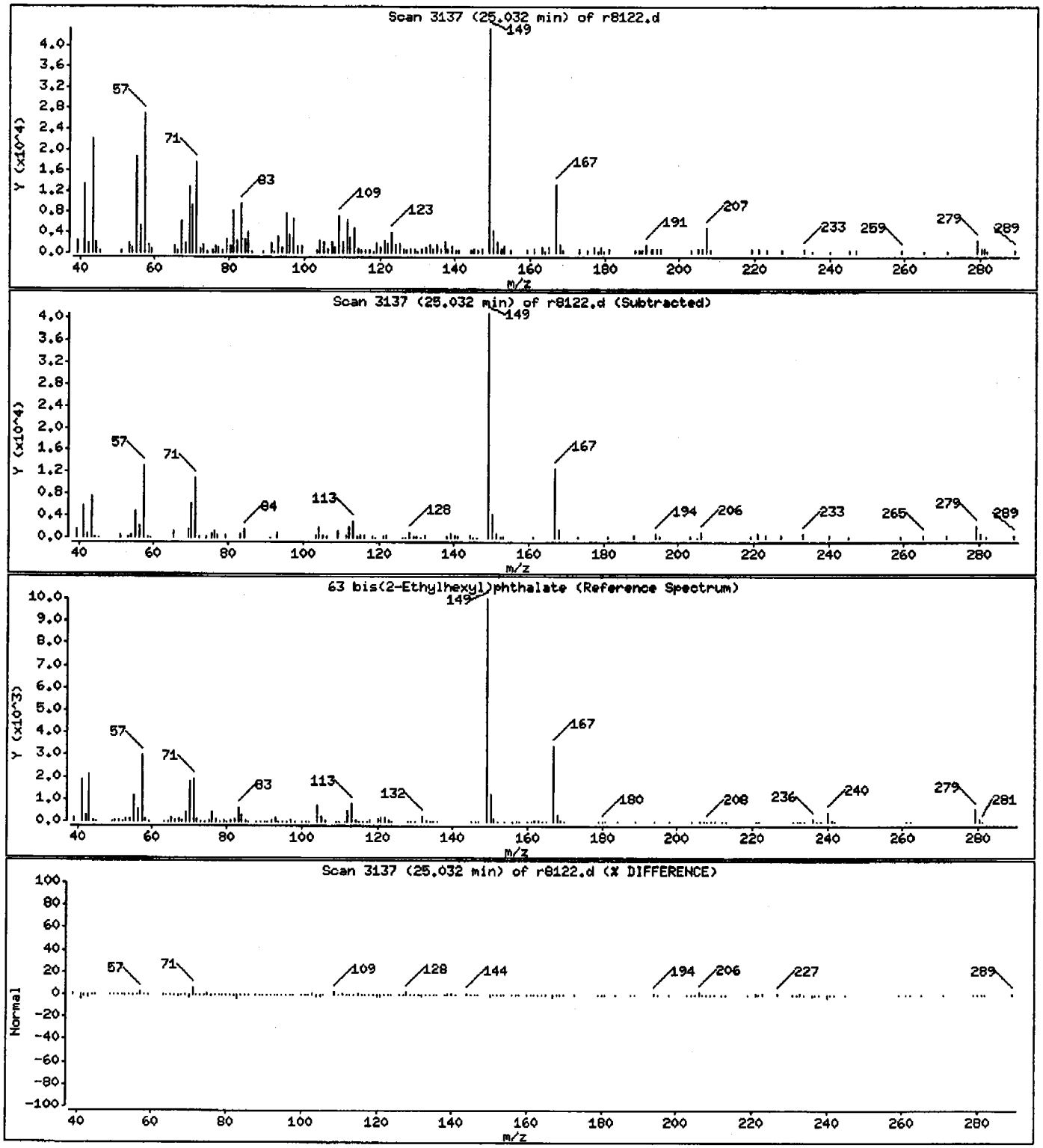
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

63 bis(2-Ethylhexyl)phthalate

Concentration: 75 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8122.d

Date : 07-DEC-2002 12:06

Client ID: MA-01-03-0-6

Instrument: BNAMS1.i

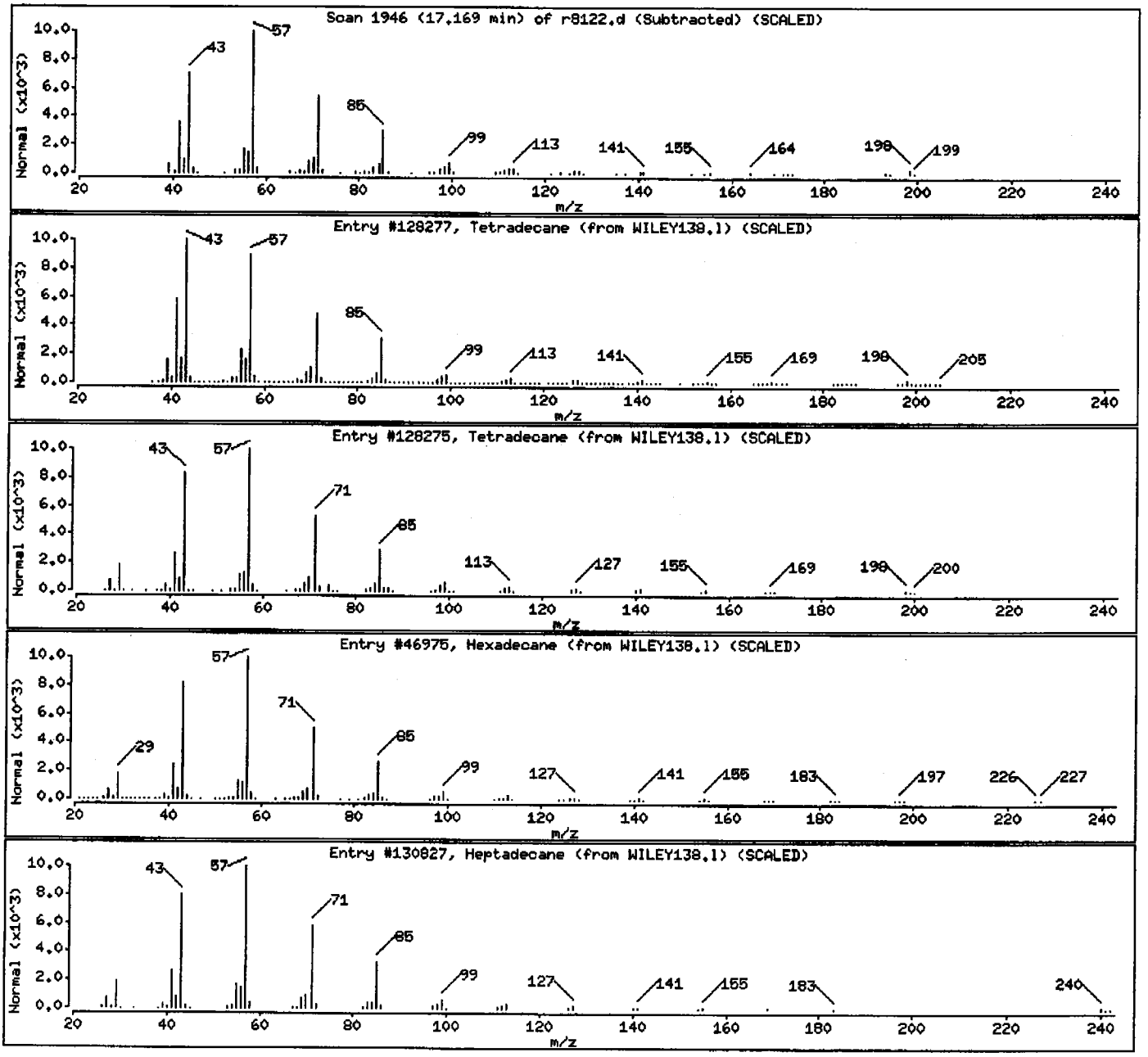
Sample Info: 392306;888018

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C14H30 Alkane						
Tetradecane	629-59-4	WILEY138.1	128277	94	C14H30	198
Tetradecane	629-59-4	WILEY138.1	128275	94	C14H30	198
Hexadecane	544-76-3	WILEY138.1	46975	91	C16H34	226
Heptadecane	629-78-7	WILEY138.1	130827	91	C17H36	240



Data File: /ohem/BNAMS1.i/8270/12-03-02/07dec02.b/r8122.d

Date : 07-DEC-2002 12:06

Client ID: HA-01-03-0-6

Instrument: BNAMS1.i

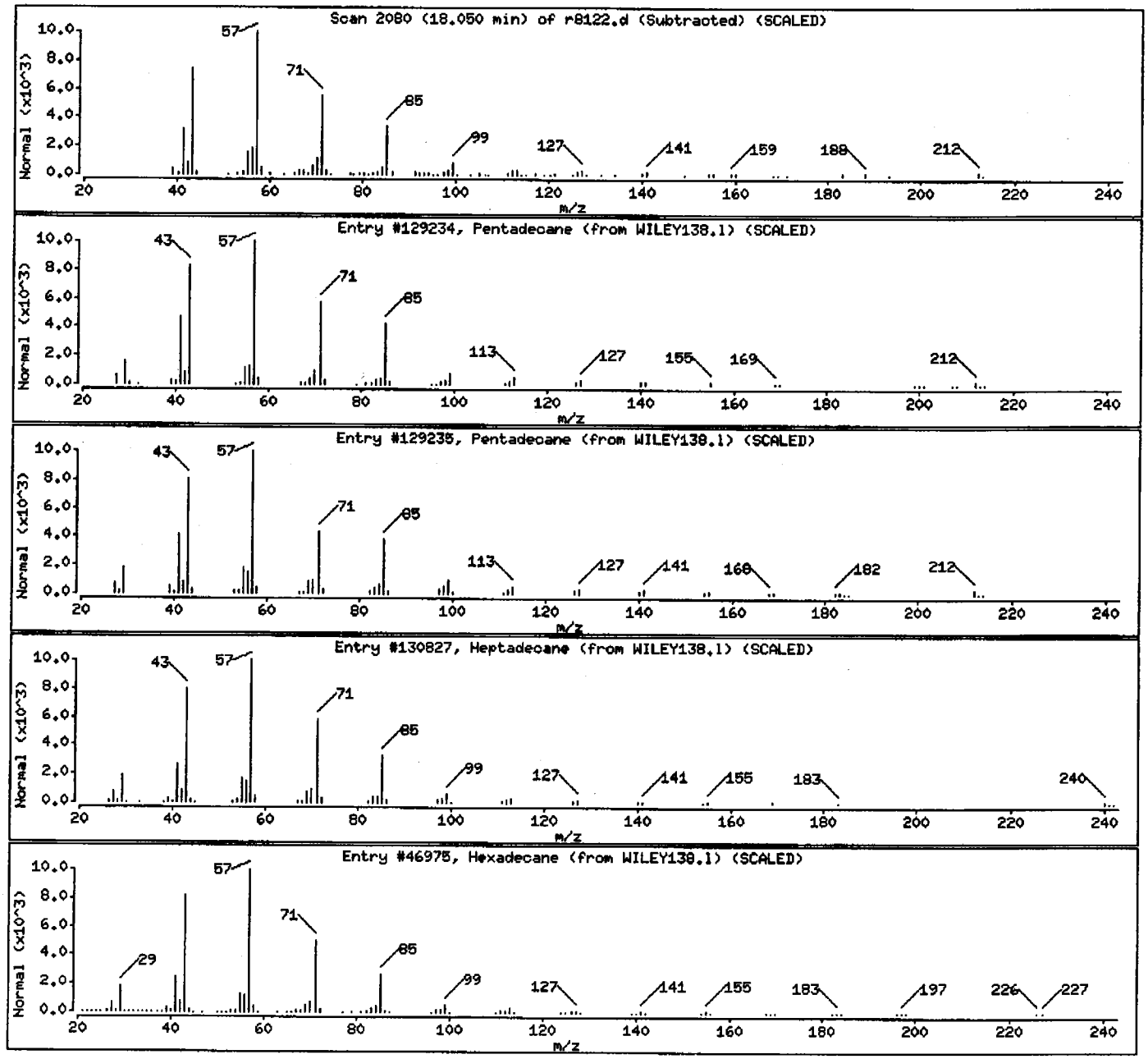
Sample Info: 392306;888018

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C15H32 Alkane						
Pentadecane	629-62-9	WILEY138.1	129234	93	C15H32	212
Pentadecane	629-62-9	WILEY138.1	129235	93	C15H32	212
Heptadecane	629-78-7	WILEY138.1	130827	91	C17H36	240
Hexadecane	544-76-3	WILEY138.1	46975	90	C16H34	226



Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8123.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8123.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	74
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	ND	370
2,6-Dinitrotoluene	ND	74
3-Nitroaniline	ND	740
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	740
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8123.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	ND	370
Pyrene	ND	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	37
Chrysene	ND	370
bis(2-Ethylhexyl)phthalate	91 J	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	ND	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392307**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8123.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9.4

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8123.d
Report Date: 08-Dec-2002 07:02

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8123.d
Lab Smp Id: 392307 Client Smp ID: HA-01-04-0-6
Inj Date : 07-DEC-2002 12:52
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392307;888052
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/8270c1.m
Meth Date : 07-Dec-2002 07:19 wahied Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	9.40000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.622	10.594	(0.813)	2536989	71.1563	5200
$ 17 Phenol-d5 (SUR)	99	12.421	12.418	(0.951)	2959404	74.3376	5500
* 79 1,4-Dichlorobenzene-d4	152	13.064	13.062	(1.000)	750092	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.020	14.022	(0.920)	1141056	37.4026	2800
* 80 Naphthalene-d8	136	15.244	15.246	(1.000)	3125667	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.044	17.044	(0.937)	2267310	36.8334	2700
* 82 Acenaphthene-d10	164	18.184	18.185	(1.000)	1891812	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.495	19.493	(1.072)	659495	67.2925	5000
* 83 Phenanthrene-d10	188	20.662	20.661	(1.000)	3691821	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.285	23.282	(0.928)	2084007	38.3090	2800
63 bis(2-Ethylhexyl)phthalate	149	25.033	25.041	(0.997)	70359	1.23689	91(aH)
* 81 Chrysene-d12	240	25.100	25.108	(1.000)	2534032	40.0000	
* 84 Perylene-d12	264	28.737	28.738	(1.000)	2452319	40.0000	

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8123.d
Report Date: 08-Dec-2002 07:02

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

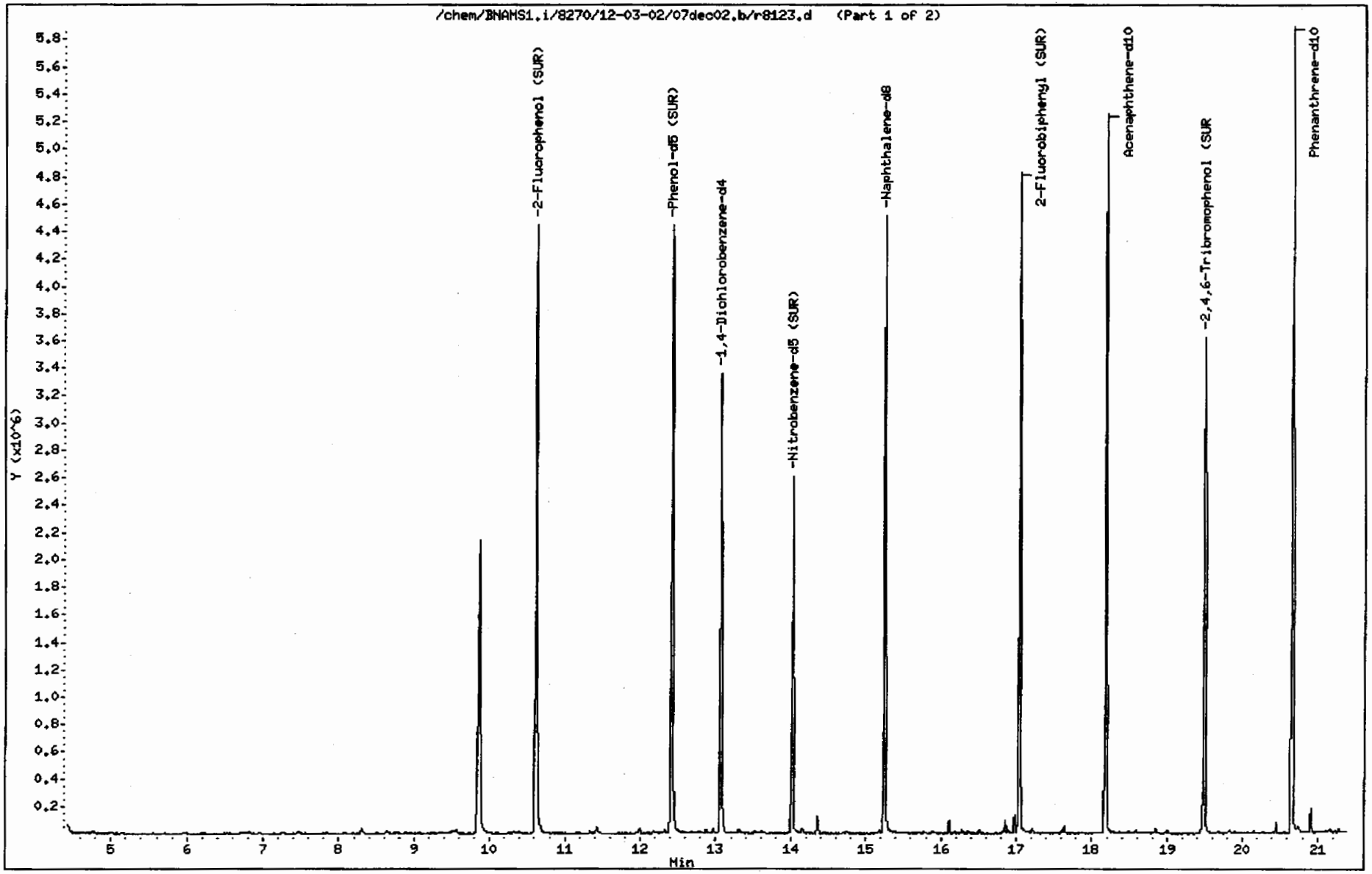
Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8123.d
Date : 07-DEC-2002 12:52
Client ID: HA-01-04-0-6
Sample Info: 392307;888052

Instrument: BNAMS1.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25



564

STL Edison

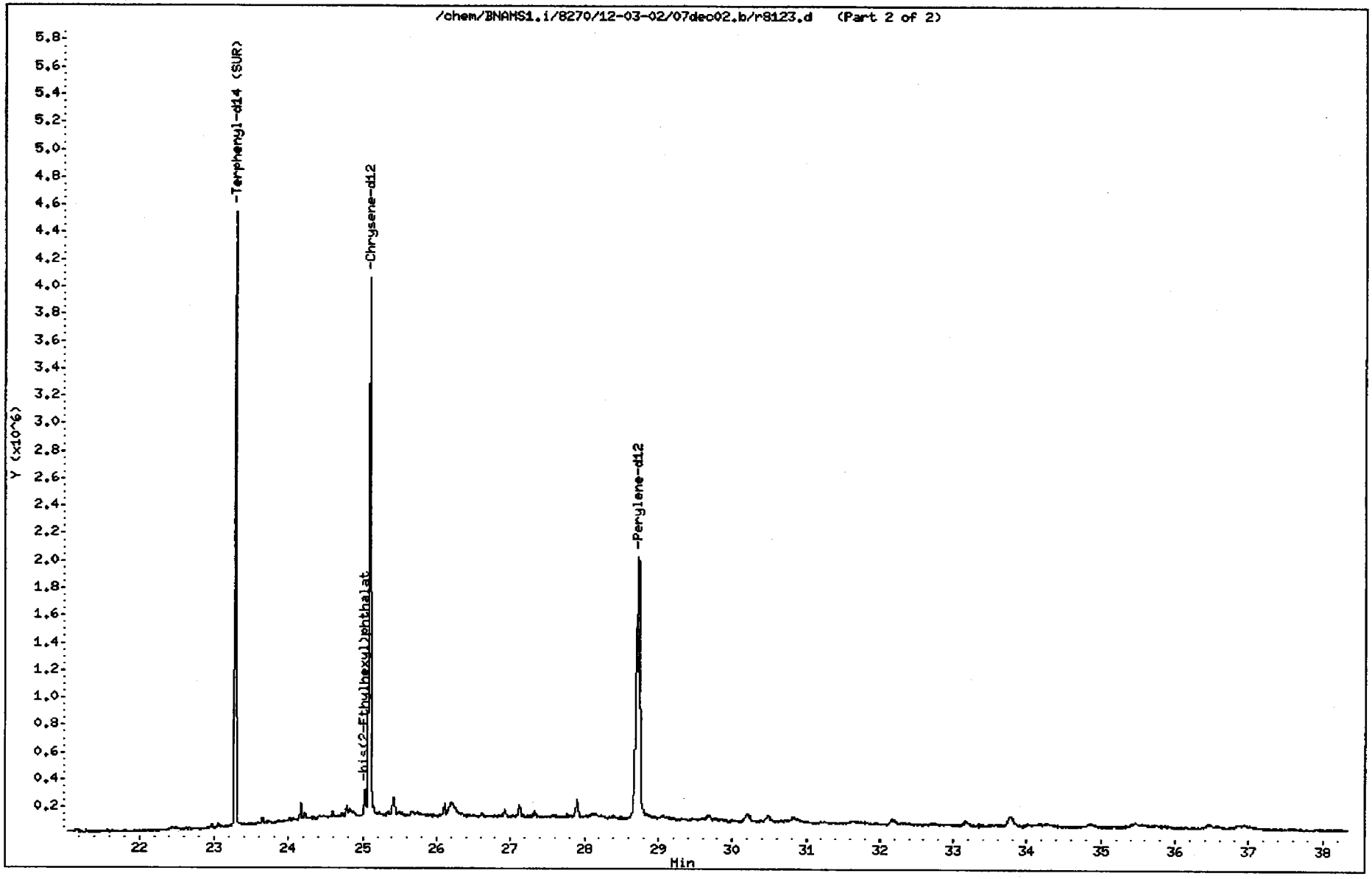
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8123.d
Date : 07-DEC-2002 12:52
Client ID: HA-01-04-0-6
Sample Info: 392307;888052

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8123.d

Date : 07-DEC-2002 12:52

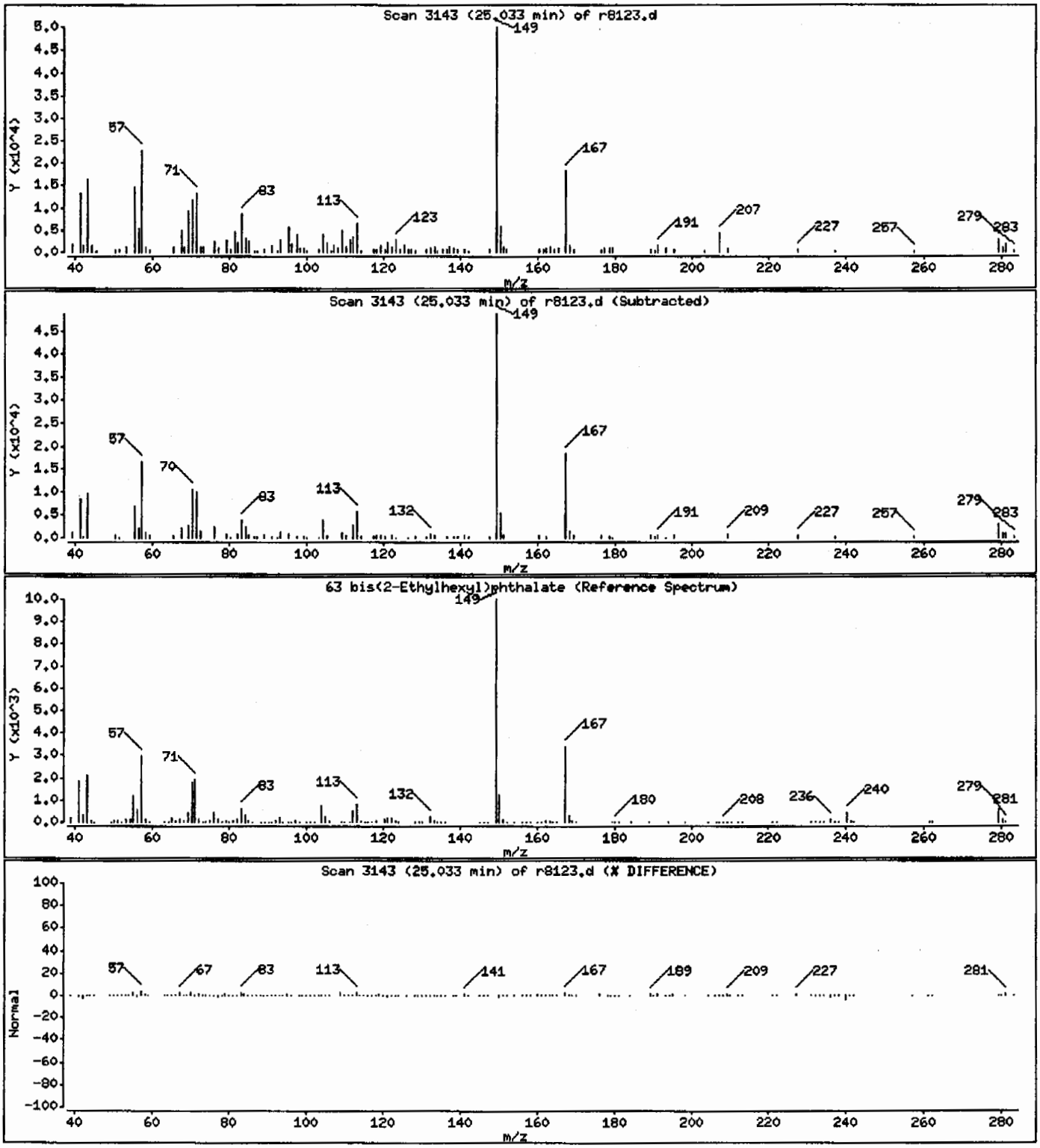
Client ID: HA-01-04-0-6 Instrument: BNAMS1.i

Sample Info: 392307;888052

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

63 bis(2-Ethylhexyl)phthalate Concentration: 91 ug/Kg



Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8105.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8105.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	74
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	ND	370
2,6-Dinitrotoluene	ND	74
3-Nitroaniline	ND	740
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	740
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8105.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	14 J	370
Pyrene	13 J	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	37
Chrysene	8.6J	370
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	10 J	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392308**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8105.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9.6

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8105.d
Report Date: 07-Dec-2002 08:28

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8105.d
Lab Smp Id: 392308 Client Smp ID: HA-01-02-0-6
Inj Date : 06-DEC-2002 12:52
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392308;888087
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/06dec02.b/8270c1.m
Meth Date : 06-Dec-2002 08:53 czhao Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	9.60000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.640	10.620	(0.813)	2571583	76.4238	5600
$ 17 Phenol-d5 (SUR)	99	12.432	12.438	(0.950)	2878706	76.6188	5600
* 79 1,4-Dichlorobenzene-d4	152	13.080	13.081	(1.000)	707915	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.029	14.041	(0.919)	1113064	38.0383	2800
* 80 Naphthalene-d8	136	15.258	15.264	(1.000)	2998028	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.051	17.056	(0.937)	2182523	37.4060	2800
* 82 Acenaphthene-d10	164	18.197	18.203	(1.000)	1793188	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.501	19.510	(1.072)	527965	56.8345	4200
* 83 Phenanthrene-d10	188	20.667	20.677	(1.000)	3539434	40.0000	
56 Fluoranthene	202	22.680	22.689	(1.097)	16968	0.18363	14(a)
57 Pyrene	202	23.060	23.072	(0.919)	15571	0.17383	13(a)
$ 78 Terphenyl-d14 (SUR)	244	23.291	23.296	(0.928)	2164457	38.5871	2800
* 81 Chrysene-d12	240	25.104	25.120	(1.000)	2612887	40.0000	
62 Chrysene	228	25.144	25.173	(1.002)	7810	0.11724	8.6(a)

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8105.d
Report Date: 07-Dec-2002 08:28

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
65 Benzo(b)fluoranthene	252	27.545	27.582	(0.958)	10840	0.13785	10(a)
* 84 Perylene-d12	264	28.745	28.762	(1.000)	2775566	40.0000	

QC Flag Legend

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

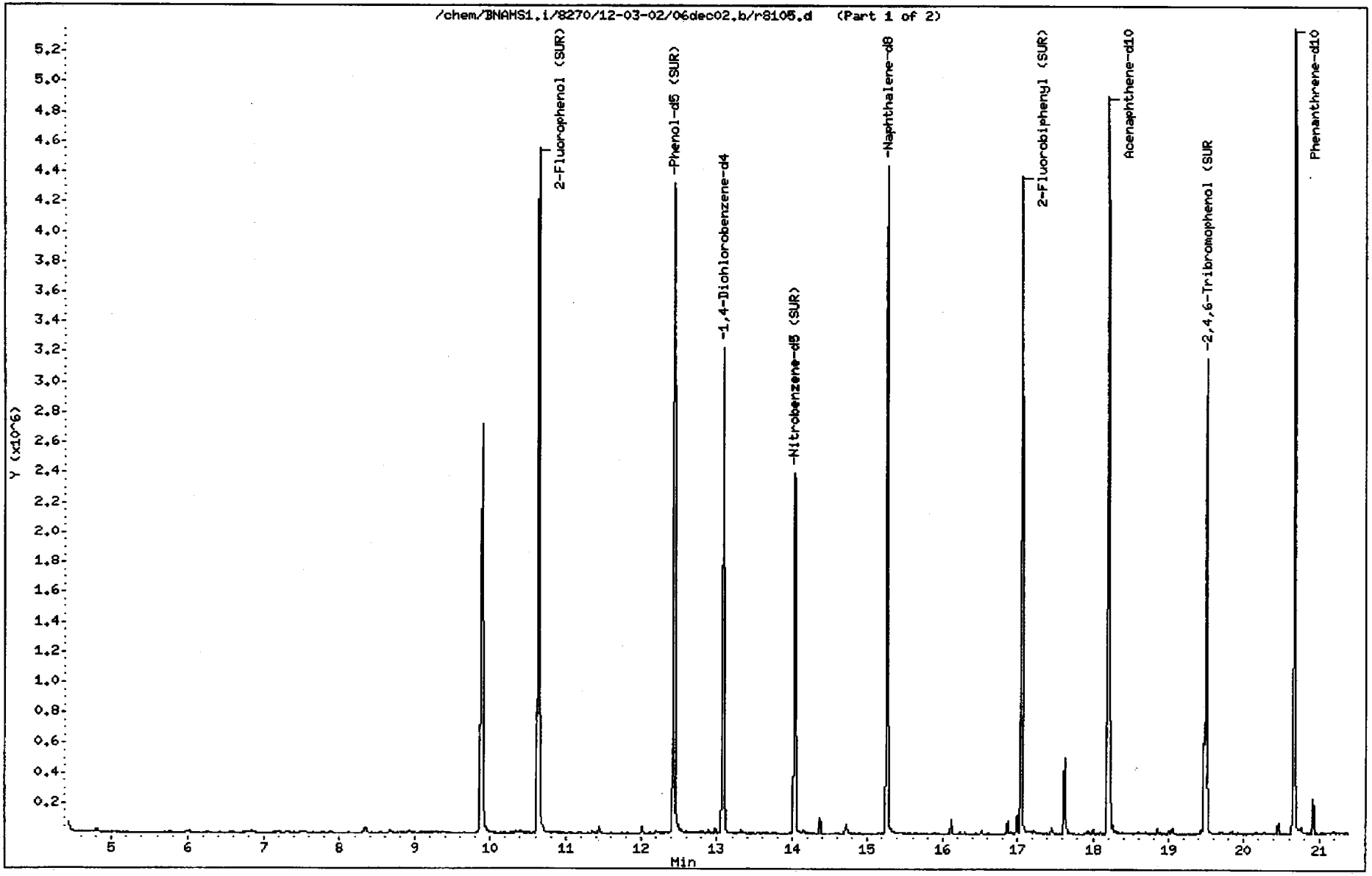
Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8105.d
Date : 06-DEC-2002 12:52
Client ID: HA-01-02-0-6
Sample Info: 392308;888087

Instrument: BNAMS1.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

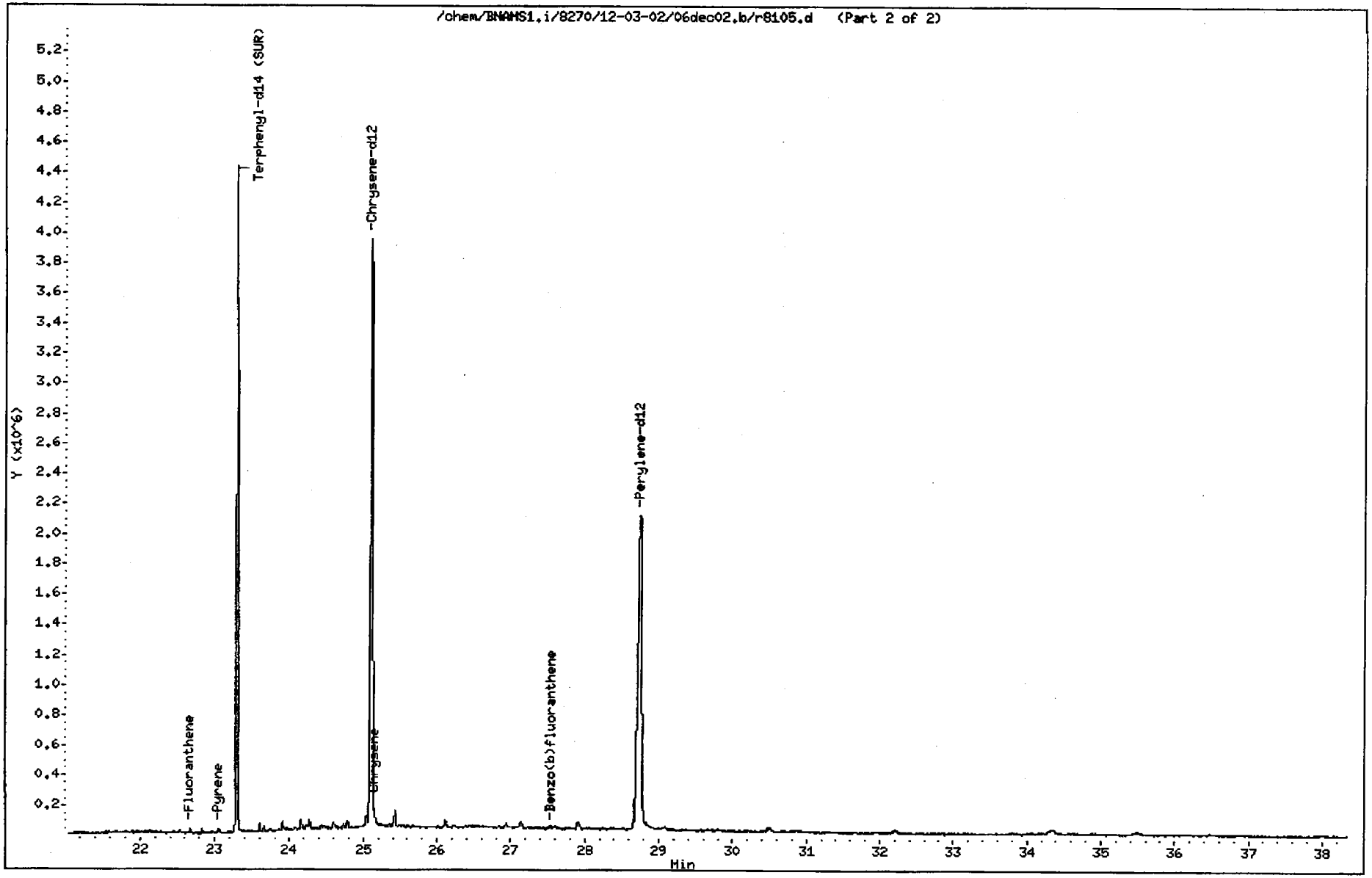


Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8105.d
Date : 06-DEC-2002 12:52
Client ID: HA-01-02-0-6
Sample Info: 392308;888087

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



574

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8105.d

Date : 06-DEC-2002 12:52

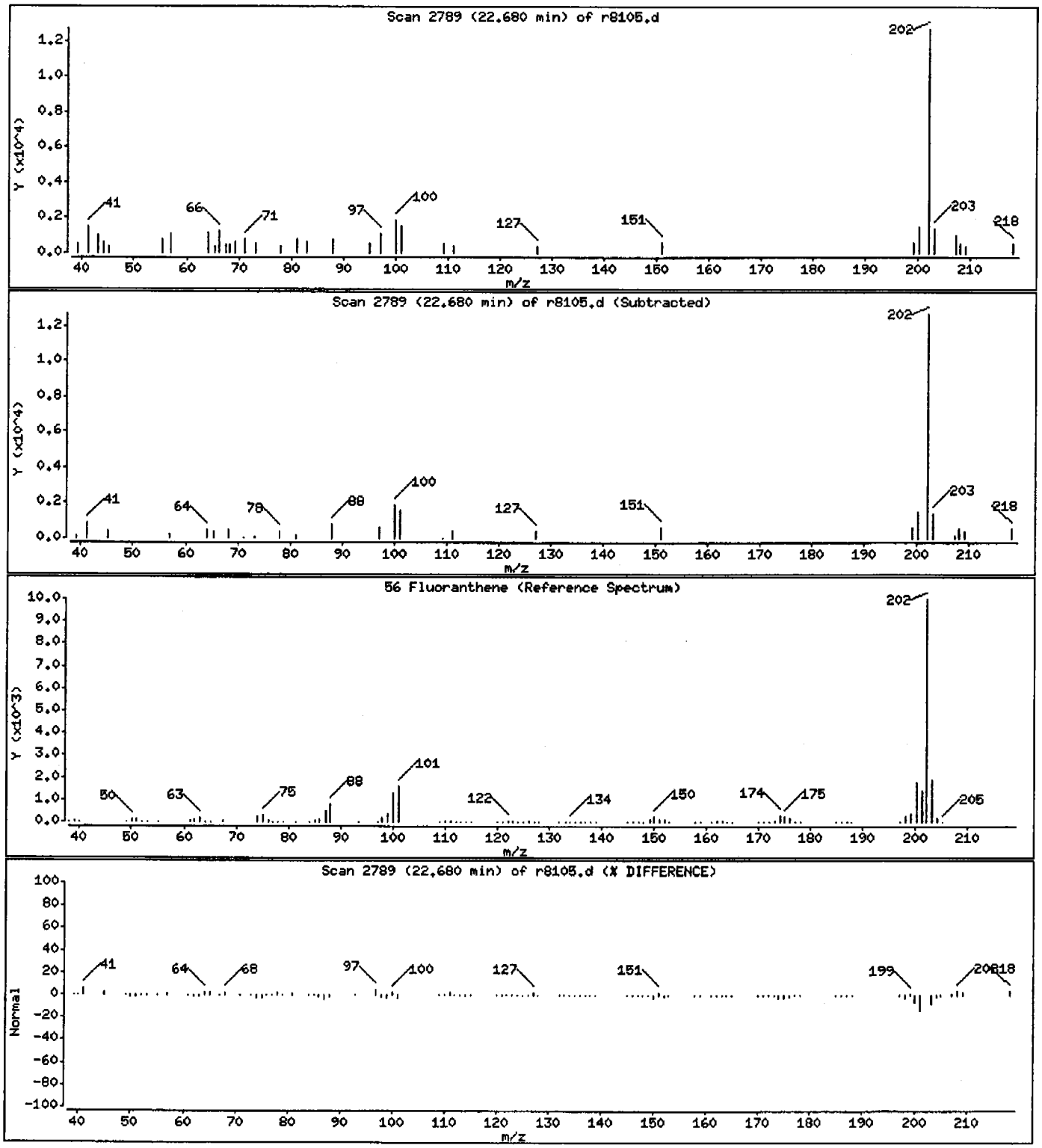
Client ID: HA-01-02-0-6 Instrument: BNAMS1.i

Sample Info: 392308;888087

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

56 Fluoranthene Concentration: 14 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8105.d

Date : 06-DEC-2002 12:52

Client ID: HA-01-02-0-6

Instrument: BNAMS1.i

Sample Info: 392308;888087

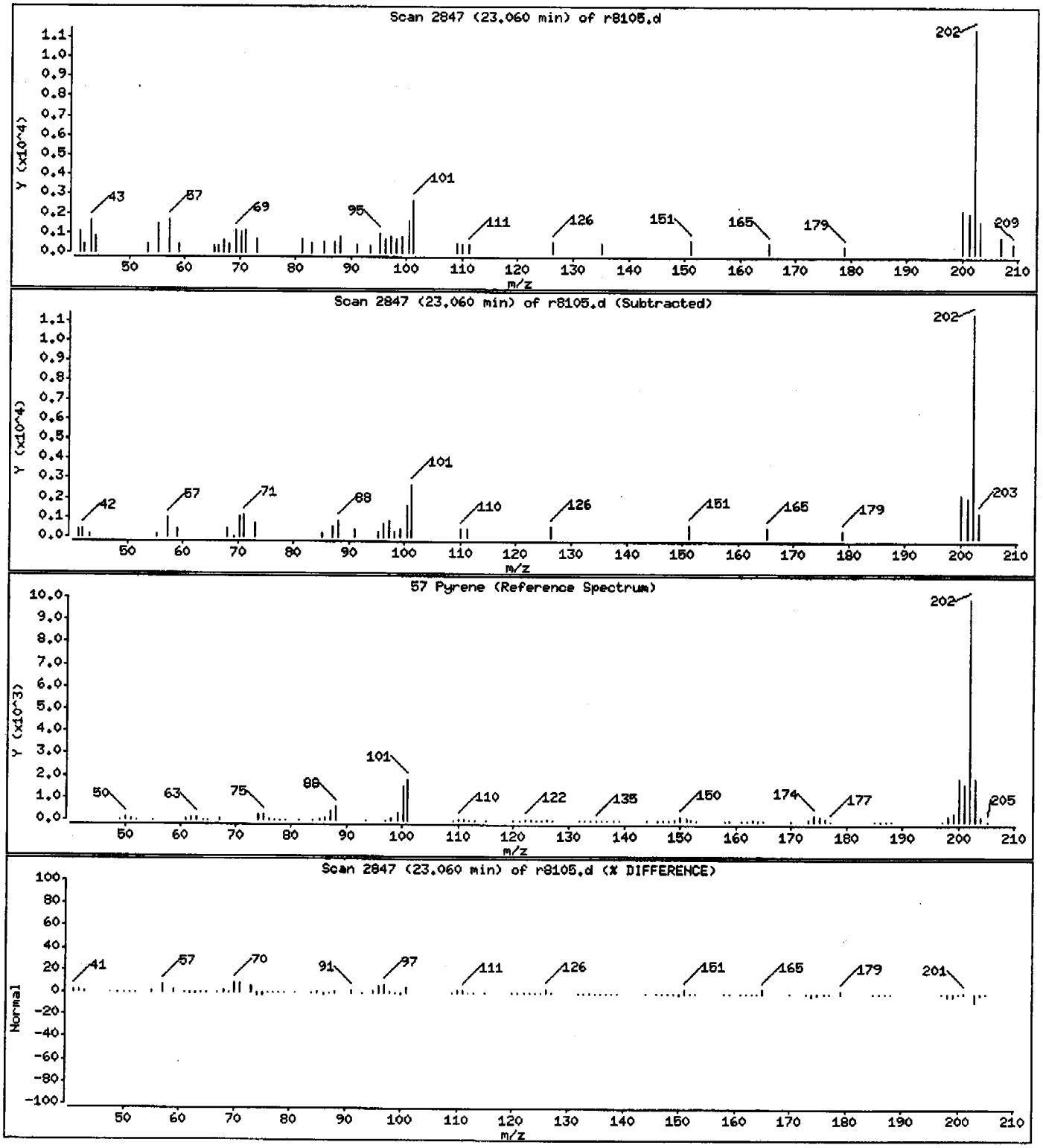
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 13 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8105.d

Date : 06-DEC-2002 12:52

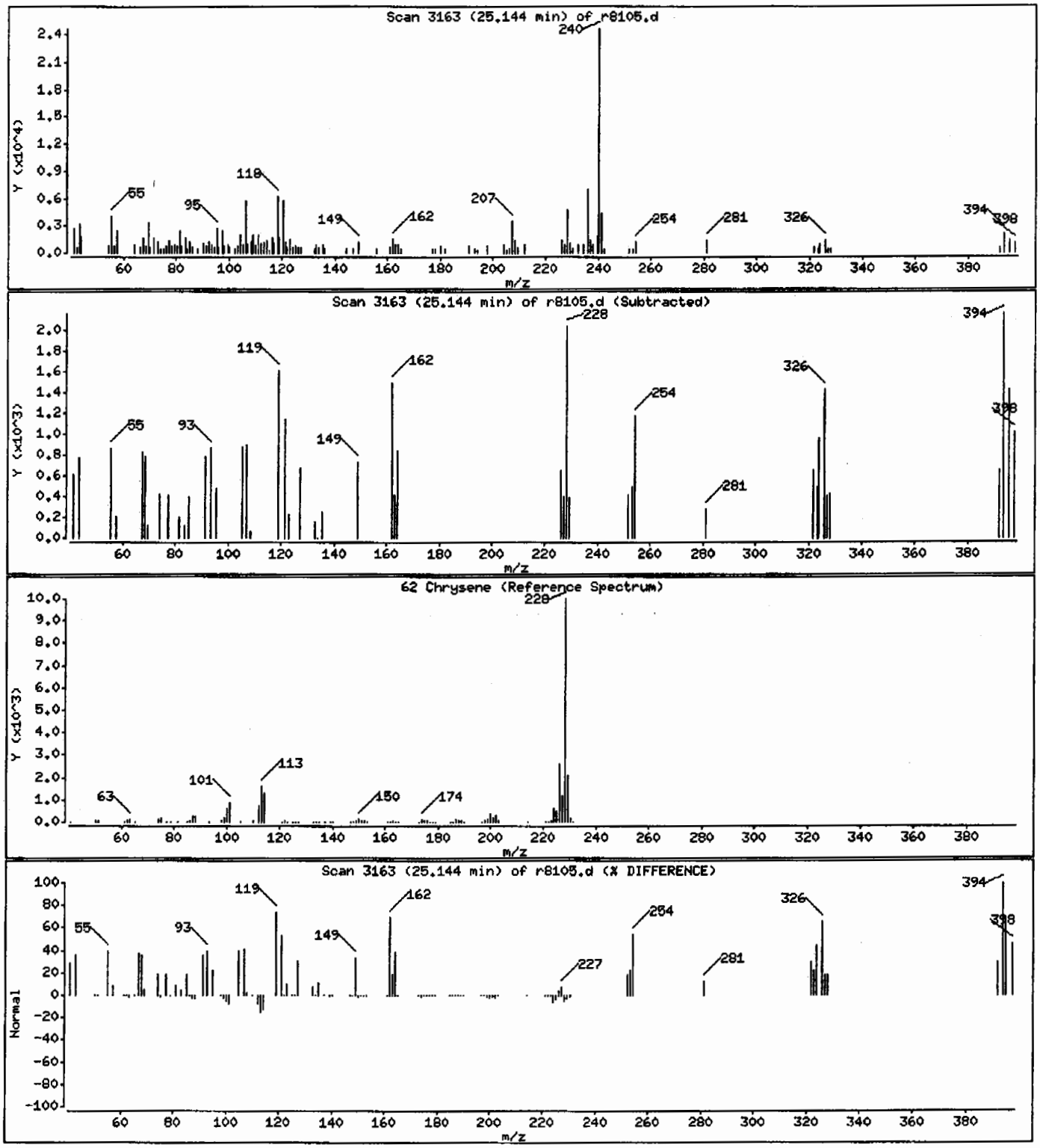
Client ID: HA-01-02-0-6 Instrument: BNAMS1.i

Sample Info: 392308;888087

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

62 Chrysene Concentration: 8.6 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8105.d

Date : 06-DEC-2002 12:52

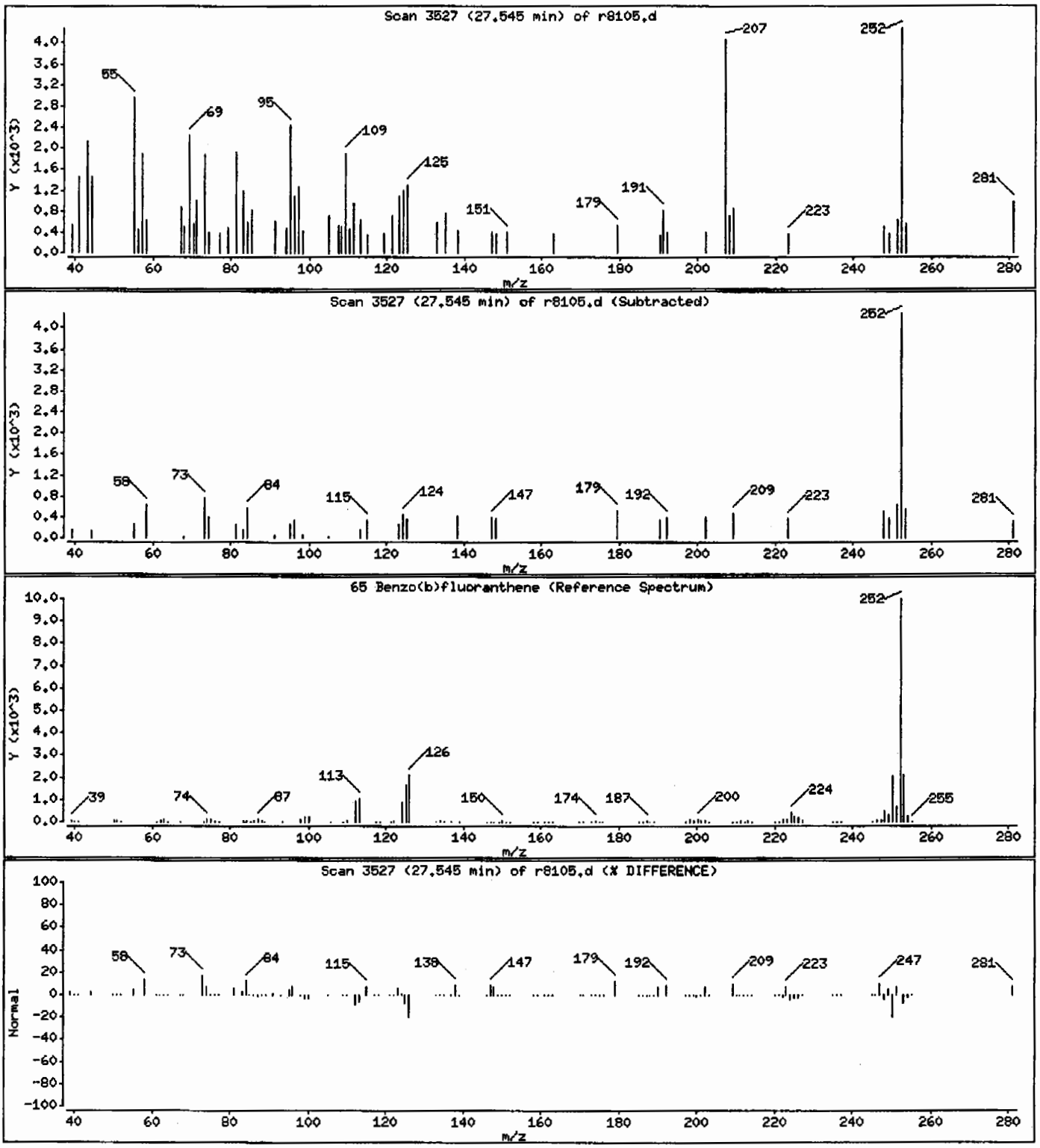
Client ID: HA-01-02-0-6 Instrument: BNAMS1.i

Sample Info: 392308;888087

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

65 Benzo(b)fluoranthene Concentration: 10 ug/Kg



Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8120.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	360
2-Chlorophenol	ND	360
2-Methylphenol	ND	360
4-Methylphenol	ND	360
2-Nitrophenol	ND	360
2,4-Dimethylphenol	ND	360
2,4-Dichlorophenol	ND	360
4-Chloro-3-methylphenol	ND	360
2,4,6-Trichlorophenol	ND	360
2,4,5-Trichlorophenol	ND	360
2,4-Dinitrophenol	ND	1400
4-Nitrophenol	ND	1400
4,6-Dinitro-2-methylphenol	ND	1400
Pentachlorophenol	13 J	1400

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8120.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	36
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
bis(2-chloroisopropyl)ether	ND	360
N-Nitroso-di-n-propylamine	ND	36
Hexachloroethane	ND	36
Nitrobenzene	ND	36
Isophorone	ND	360
bis(2-Chloroethoxy)methane	ND	360
1,2,4-Trichlorobenzene	ND	36
Naphthalene	ND	360
4-Chloroaniline	ND	360
Hexachlorobutadiene	ND	73
2-Methylnaphthalene	ND	360
Hexachlorocyclopentadiene	ND	360
2-Chloronaphthalene	ND	360
2-Nitroaniline	ND	730
Dimethylphthalate	ND	360
Acenaphthylene	ND	360
2,6-Dinitrotoluene	ND	73
3-Nitroaniline	ND	730
Acenaphthene	ND	360
Dibenzofuran	ND	360
2,4-Dinitrotoluene	ND	73
Diethylphthalate	ND	360
4-Chlorophenyl-phenylether	ND	360
Fluorene	ND	360
4-Nitroaniline	ND	730
N-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	36
Phenanthrene	ND	360
Anthracene	ND	360

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8120.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 9

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	8.0J	360
Di-n-butylphthalate	ND	360
Fluoranthene	ND	360
Pyrene	ND	360
Butylbenzylphthalate	ND	360
3,3'-Dichlorobenzidine	ND	730
Benzo(a)anthracene	ND	36
Chrysene	ND	360
bis(2-Ethylhexyl)phthalate	ND	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	ND	36
Benzo(k)fluoranthene	ND	36
Benzo(a)pyrene	ND	36
Indeno(1,2,3-cd)pyrene	ND	36
Dibenz(a,h)anthracene	ND	36
Benzo(g,h,i)perylene	ND	360

Client ID: **HA-01-12-0-6**
Site: Earle NWS Closure

Lab Sample No: **392309**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8120.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 8.6

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	13.19	350	
2. Unknown	13.24	330	
3. Unknown	18.21	410	
4. Unknown	19.46	490	
5. Unknown	26.23	380	
6. Unknown	30.90	1200	
7. Unknown	32.24	690	
8. Unknown	34.12	340	
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 4190

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d
Report Date: 08-Dec-2002 07:02

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d
Lab Smp Id: 392309 Client Smp ID: HA-01-12-0-6
Inj Date : 07-DEC-2002 10:33
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392309;888122
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/8270c1.m
Meth Date : 07-Dec-2002 07:19 wahied Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	8.60000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.618	10.594	(0.813)	2397626	66.3083	4800
$ 17 Phenol-d5 (SUR)	99	12.419	12.418	(0.951)	2807171	69.5289	5100
* 79 1,4-Dichlorobenzene-d4	152	13.062	13.062	(1.000)	760716	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.014	14.022	(0.919)	1054646	34.5543	2500
* 80 Naphthalene-d8	136	15.241	15.246	(1.000)	3127102	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.040	17.044	(0.937)	2057509	34.5385	2500
* 82 Acenaphthene-d10	164	18.185	18.185	(1.000)	1830826	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.490	19.493	(1.072)	569456	60.0407	4400
14 Pentachlorophenol	266	20.323	20.331	(0.984)	2388	0.18464	13(a)
* 83 Phenanthrene-d10	188	20.654	20.661	(1.000)	3289205	40.0000	
54 Carbazole	167	21.026	21.038	(1.018)	7606	0.10946	8.0(a)
$ 78 Terphenyl-d14 (SUR)	244	23.283	23.282	(0.928)	1850551	36.8937	2700
* 81 Chrysene-d12	240	25.098	25.108	(1.000)	2336486	40.0000	
* 84 Perylene-d12	264	28.764	28.738	(1.000)	2148209	40.0000	

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d
Report Date: 08-Dec-2002 07:02

QC Flag Legend

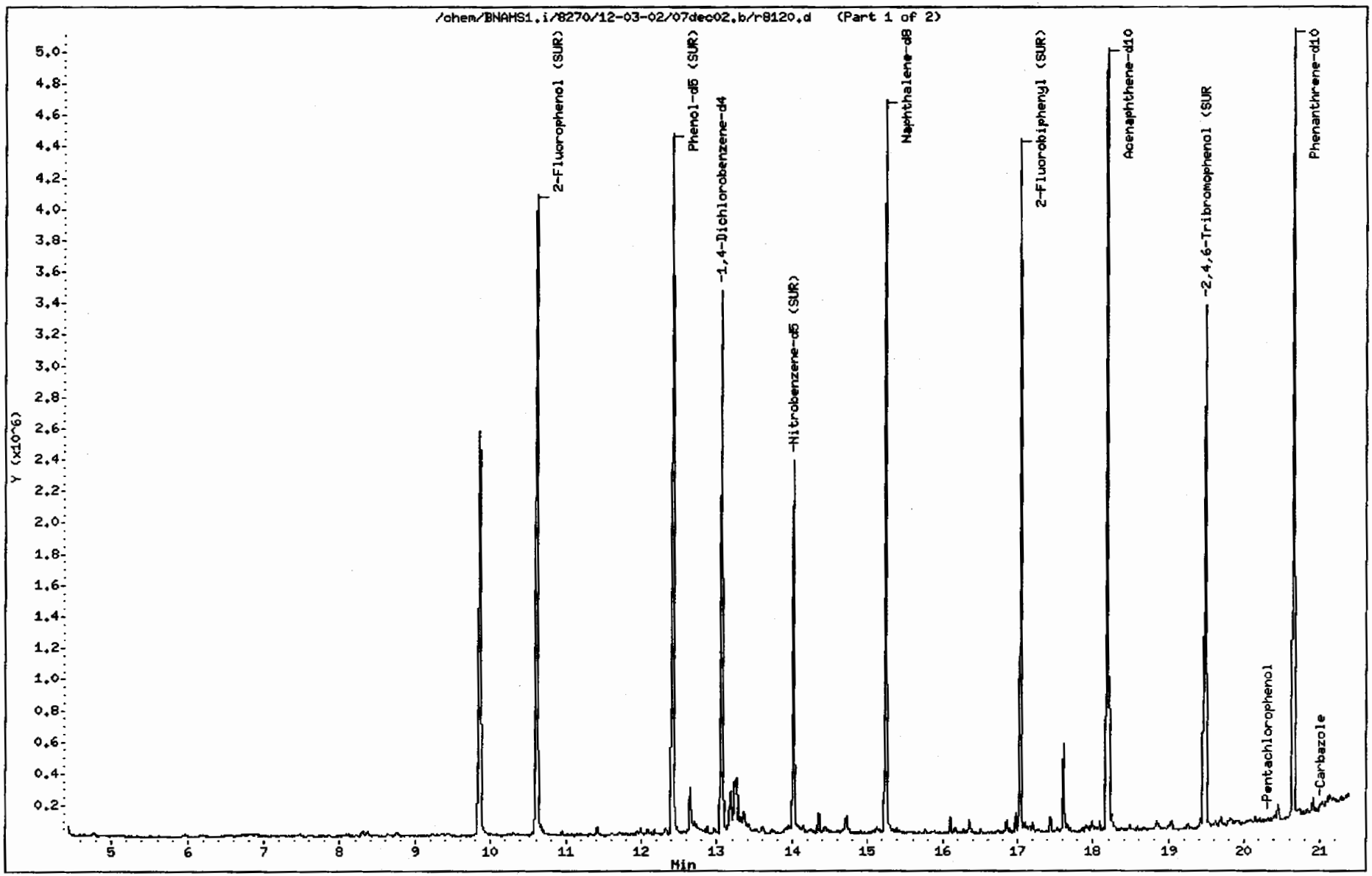
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d
Date : 07-DEC-2002 10:33
Client ID: HA-01-12-0-6
Sample Info: 392309;888122

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



585

STL Edison

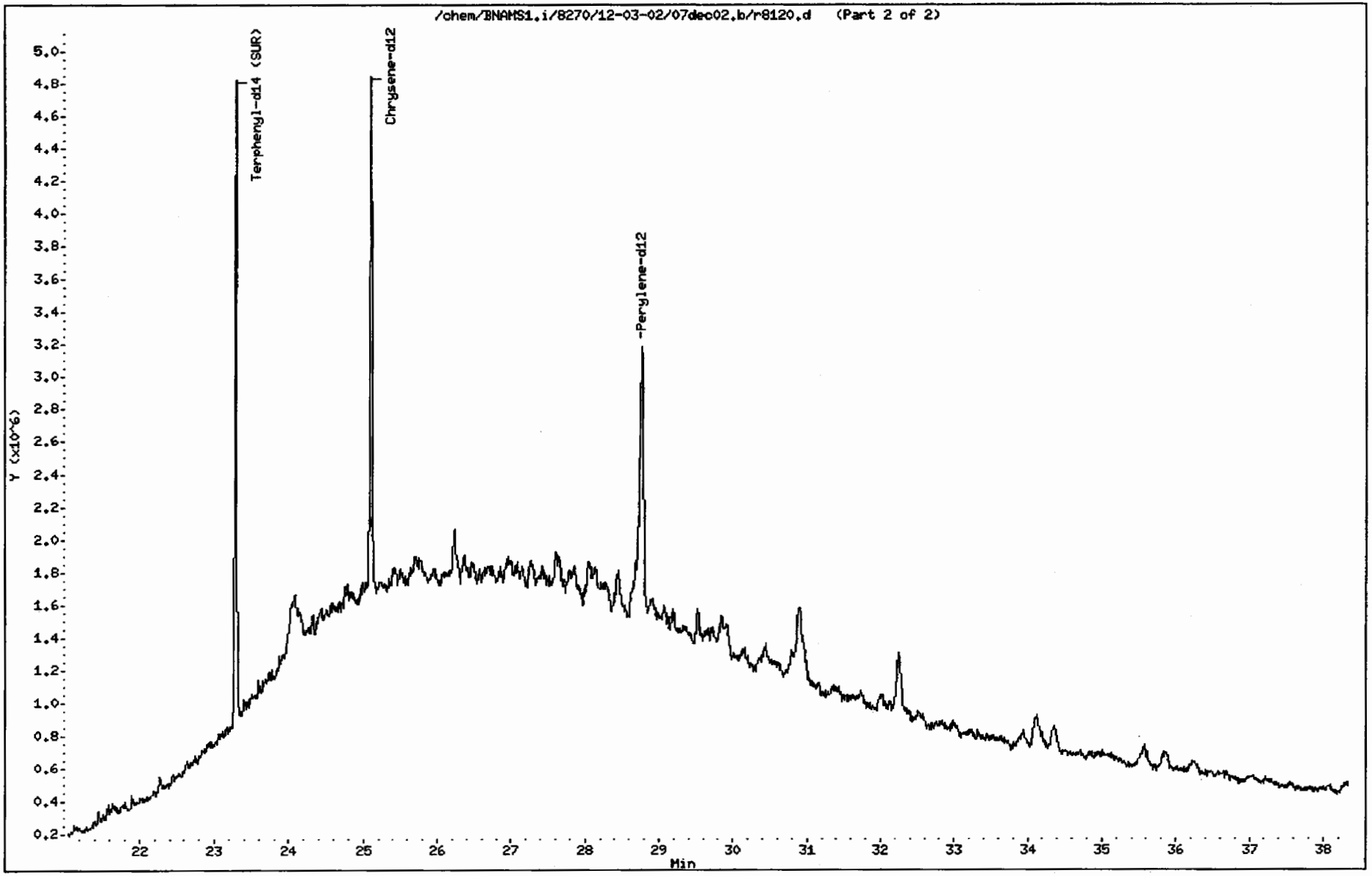
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d
Date : 07-DEC-2002 10:33
Client ID: HA-01-12-0-6
Sample Info: 392309;888122

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



586

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d

Date : 07-DEC-2002 10:33

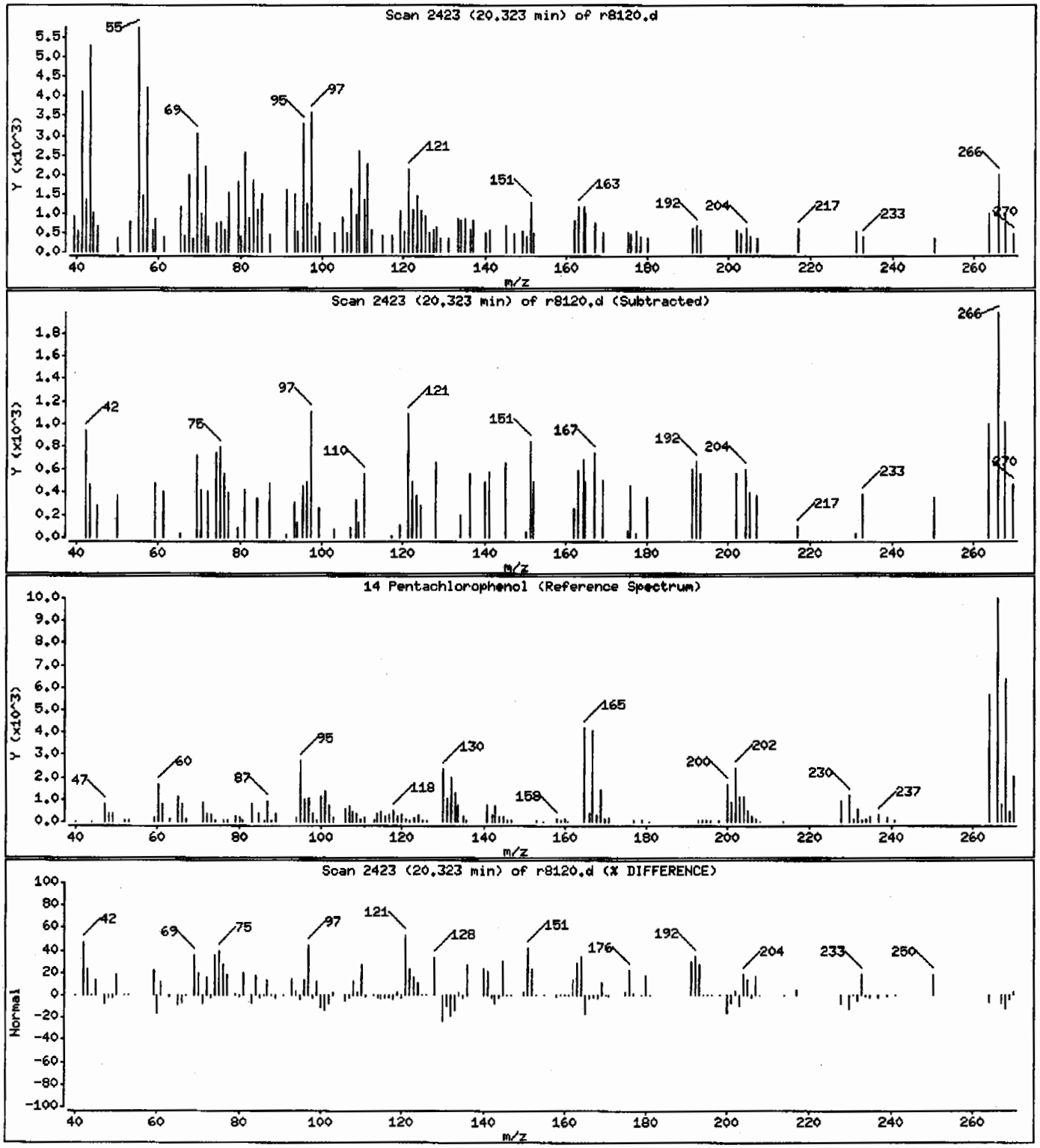
Client ID: HA-01-12-0-6 Instrument: BNAMS1.i

Sample Info: 392309;888122

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

14 Pentachlorophenol Concentration: 13 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d

Date : 07-DEC-2002 10:33

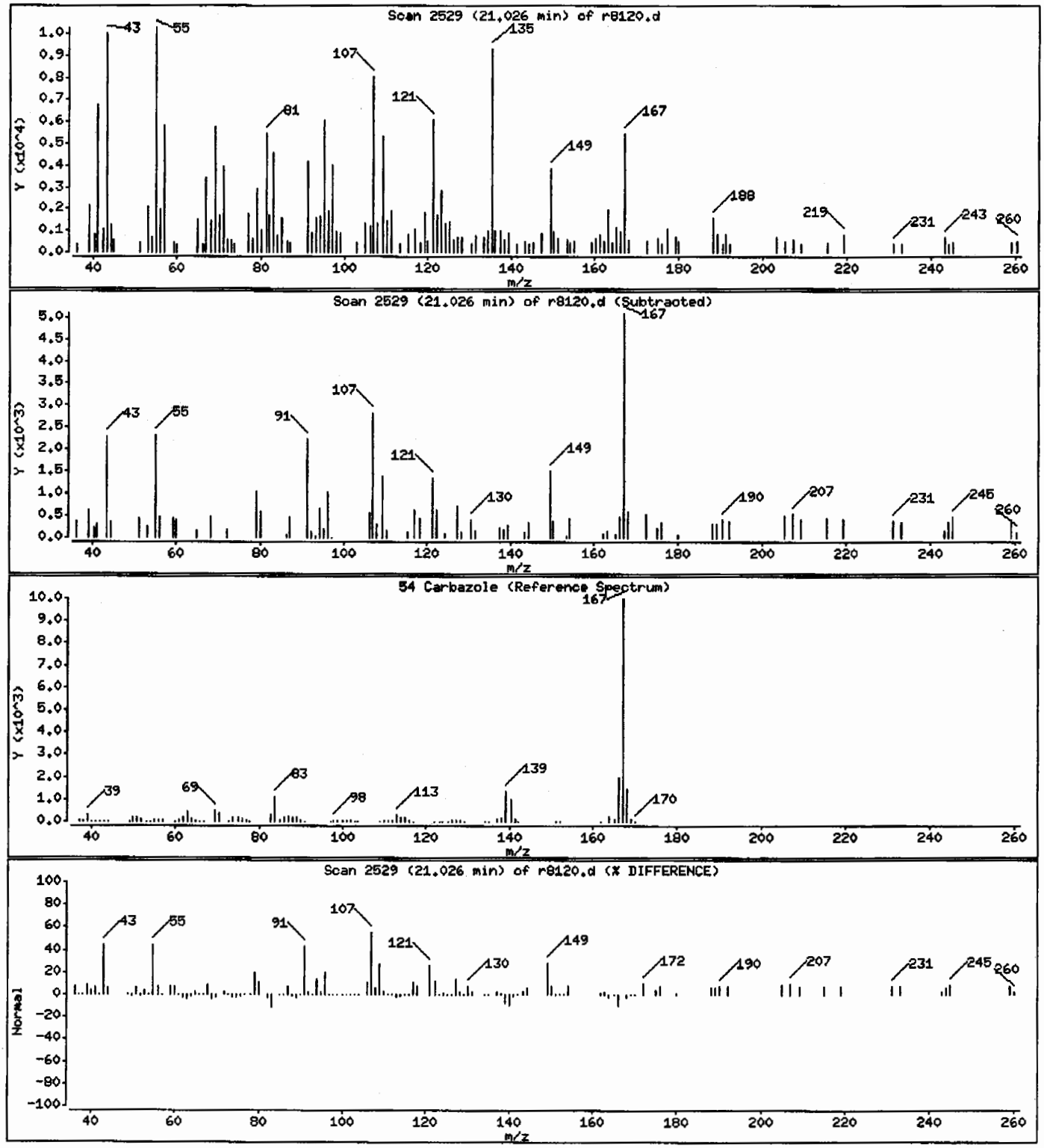
Client ID: HA-01-12-0-6 Instrument: BNAMS1.i

Sample Info: 392309;888122

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

54 Carbazole Concentration: 8.0 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d

Date : 07-DEC-2002 10:33

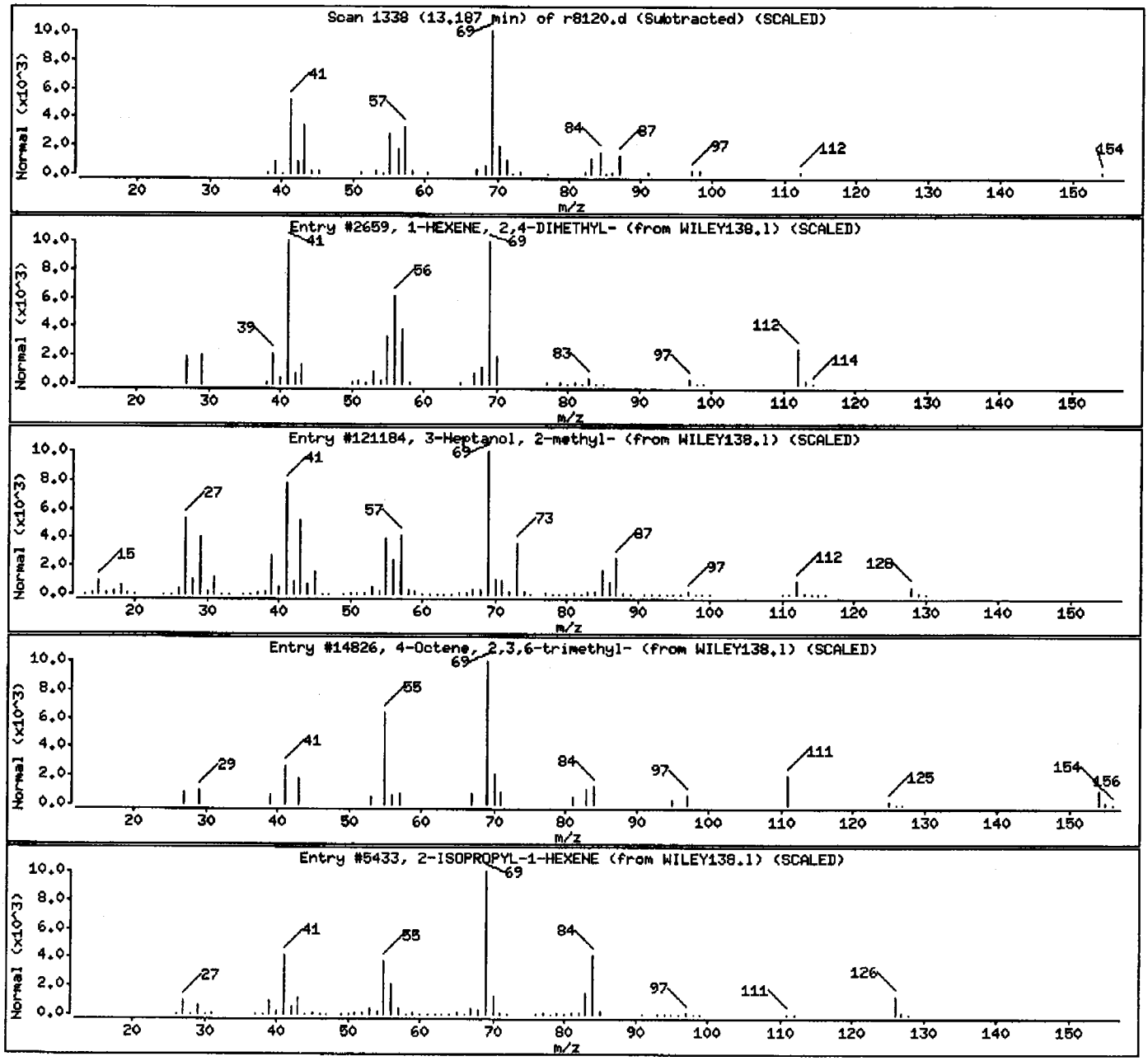
Client ID: HA-01-12-0-6 Instrument: BNAMS1.i

Sample Info: 392309;888122

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-HEXENE, 2,4-DIMETHYL-	0-00-0	WILEY138.1	2659	50	C8H16	112
3-Heptanol, 2-methyl-	18720-62-2	WILEY138.1	121184	42	C8H18O	130
4-Octene, 2,3,6-trimethyl-	63830-65-9	WILEY138.1	14826	39	C11H22	154
2-ISOPROPYL-1-HEXENE	0-00-0	WILEY138.1	5433	38	C9H18	126



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d

Date : 07-DEC-2002 10:33

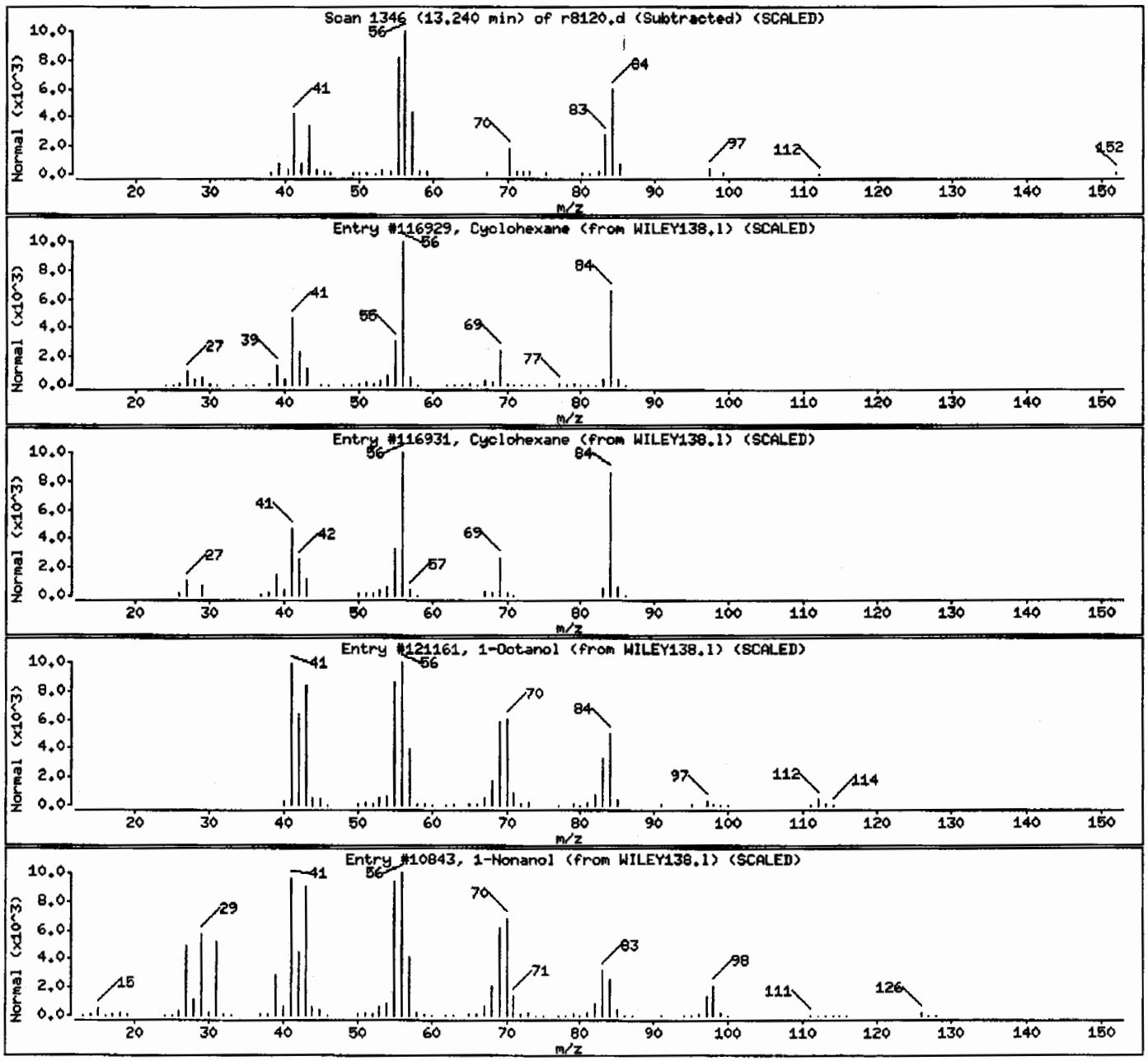
Client ID: HA-01-12-0-6 Instrument: BNAMS1.i

Sample Info: 392309;888122

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane	110-82-7	WILEY138.1	116929	53	C6H12	84
Cyclohexane	110-82-7	WILEY138.1	116931	42	C6H12	84
1-Octanol	111-87-5	WILEY138.1	121161	40	C8H18O	130
1-Nonanol	143-08-8	WILEY138.1	10843	39	C9H20O	144



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d

Date : 07-DEC-2002 10:33

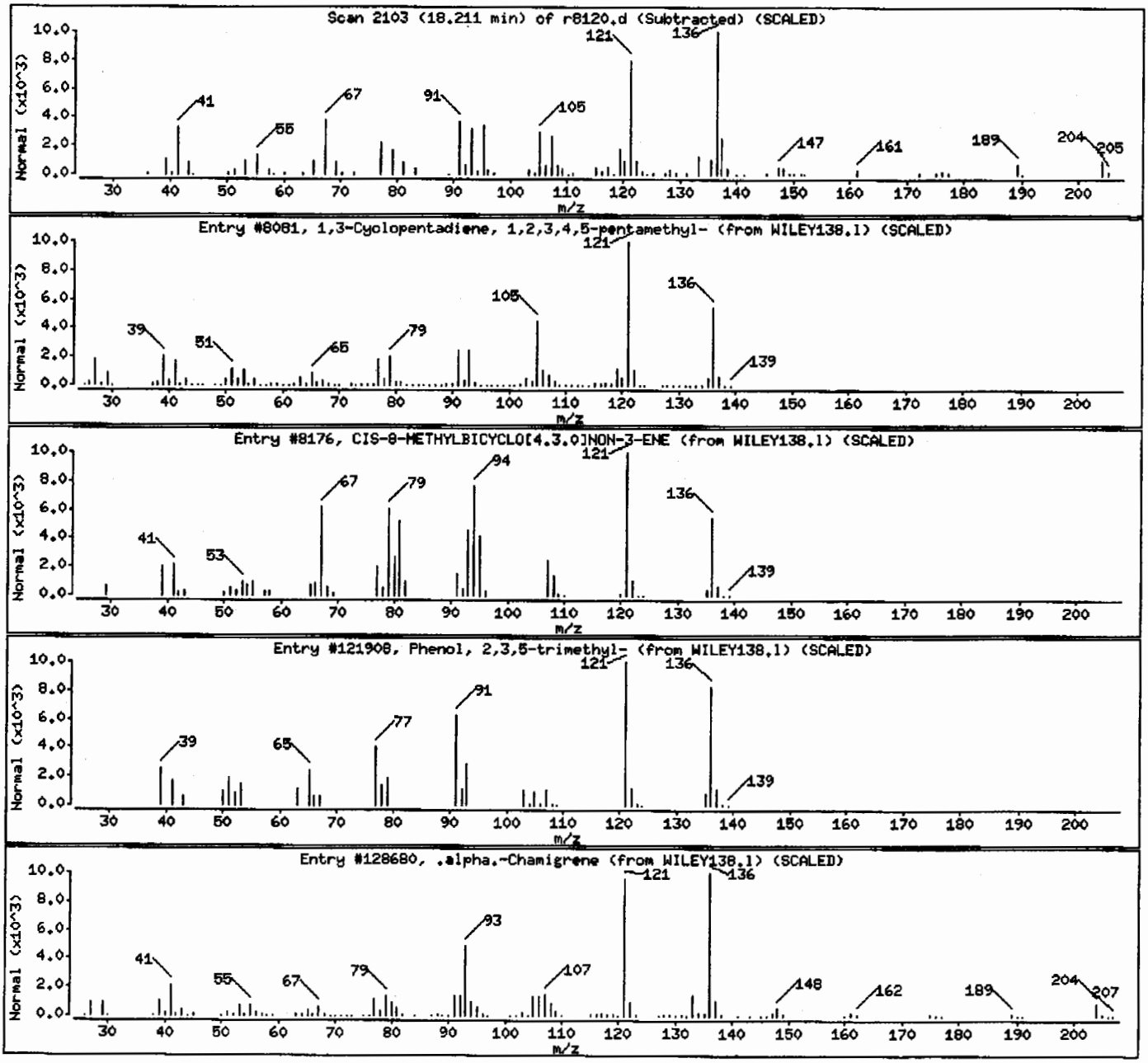
Client ID: HA-01-12-0-6 Instrument: BNAMS1.i

Sample Info: 392309;888122

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Cyclopentadiene, 1,2,3,4,5-pentameth	4045-44-7	WILEY138.1	8081	60	C10H16	136
CIS-8-METHYLBICYCLO[4.3.0]NON-3-ENE	60844-39-5	WILEY138.1	8176	59	C10H16	136
Phenol, 2,3,5-trimethyl-	697-82-5	WILEY138.1	121908	58	C9H12O	136
.alpha.-Chamigrene	19912-83-5	WILEY138.1	128680	58	C15H24	204



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d

Date : 07-DEC-2002 10:33

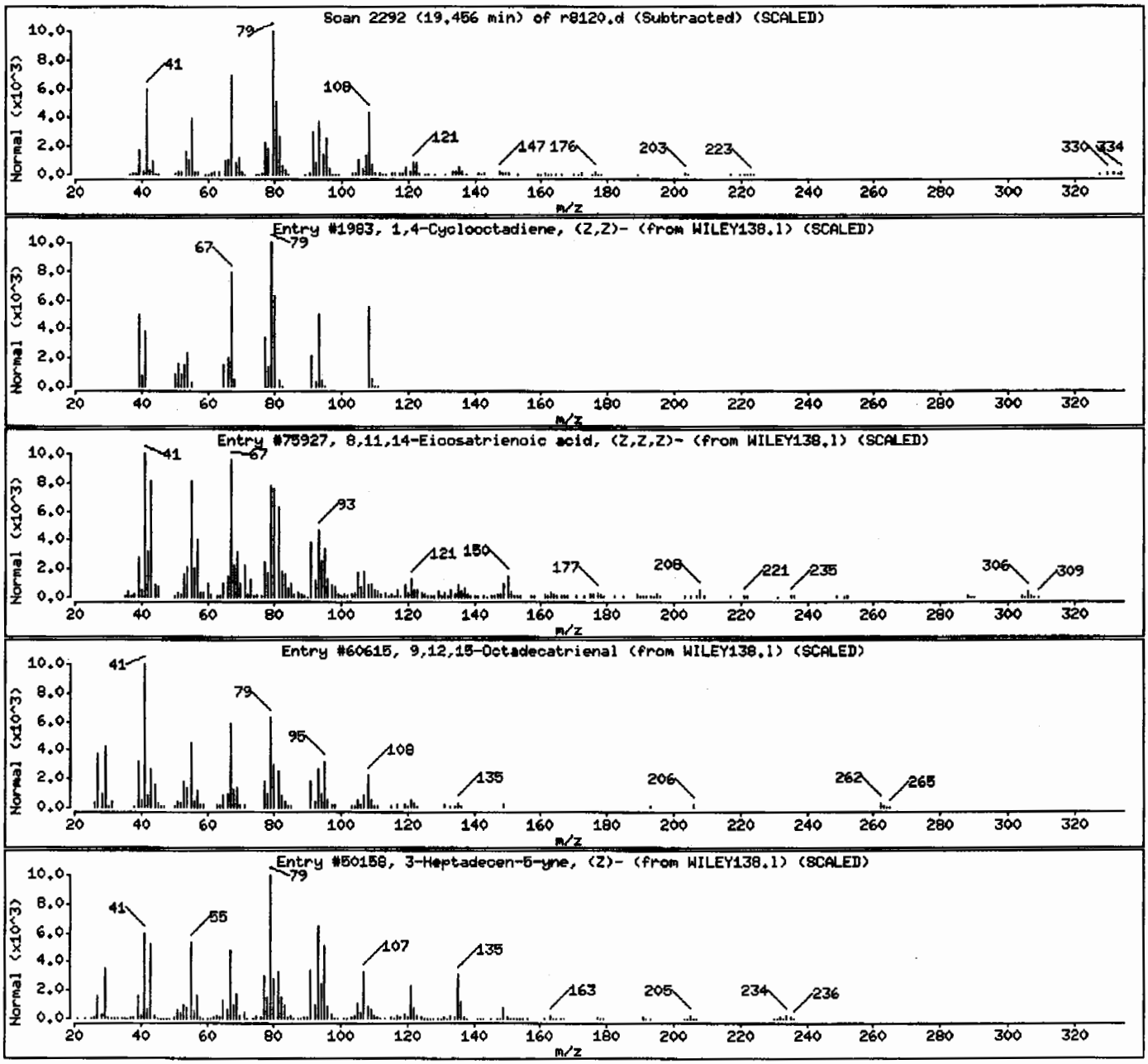
Client ID: HA-01-12-0-6 Instrument: BNAMS1.i

Sample Info: 392309;888122

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,4-Cyclooctadiene, (Z,Z)-	16327-22-3	WILEY138.1	1983	52	C8H12	108
8,11,14-Eicosatrienoic acid, (Z,Z,Z)-	1783-84-2	WILEY138.1	75927	52	C20H3402	306
9,12,15-Octadecatrienal	26537-71-3	WILEY138.1	60615	50	C18H30O	262
3-Heptadecen-5-yne, (Z)-	74744-55-1	WILEY138.1	50158	47	C17H30	234



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d

Date : 07-DEC-2002 10:33

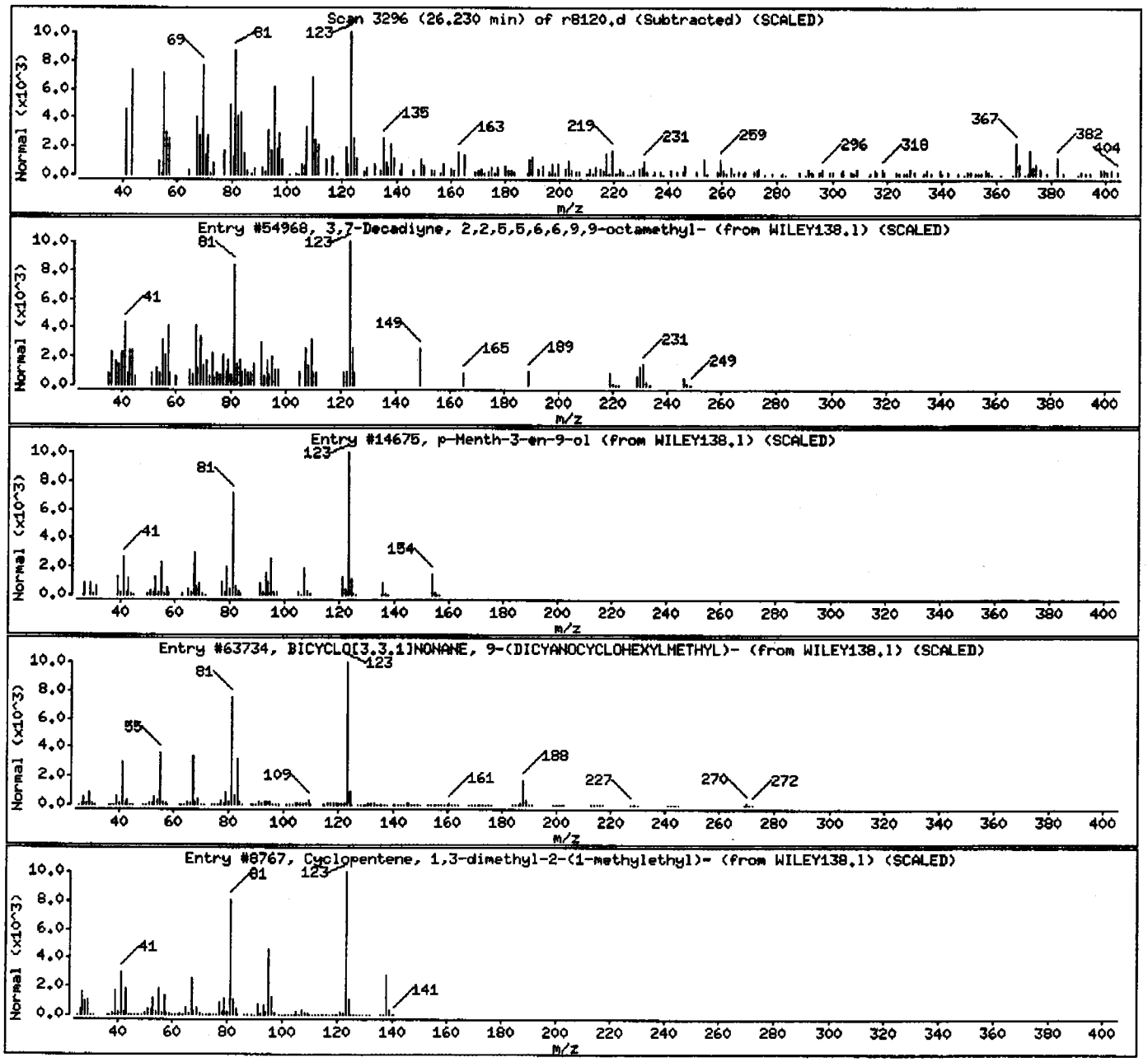
Client ID: HA-01-12-0-6 Instrument: BNAMS1.i

Sample Info: 392309;888122

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3,7-Decadiyne, 2,2,5,5,6,6,9,9-octamethy	17553-35-4	WILEY138.1	54968	49	C18H30	246
p-Menth-3-en-9-ol	15714-10-0	WILEY138.1	14675	35	C10H180	154
BICYCLO[3.3.1]NONANE, 9-(DICYANOCYCLOHEX	0-00-0	WILEY138.1	63734	35	C18H26N2	270
Cyclopentene, 1,3-dimethyl-2-(1-methylet	61142-32-3	WILEY138.1	8767	35	C10H18	138



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d

Date : 07-DEC-2002 10:33

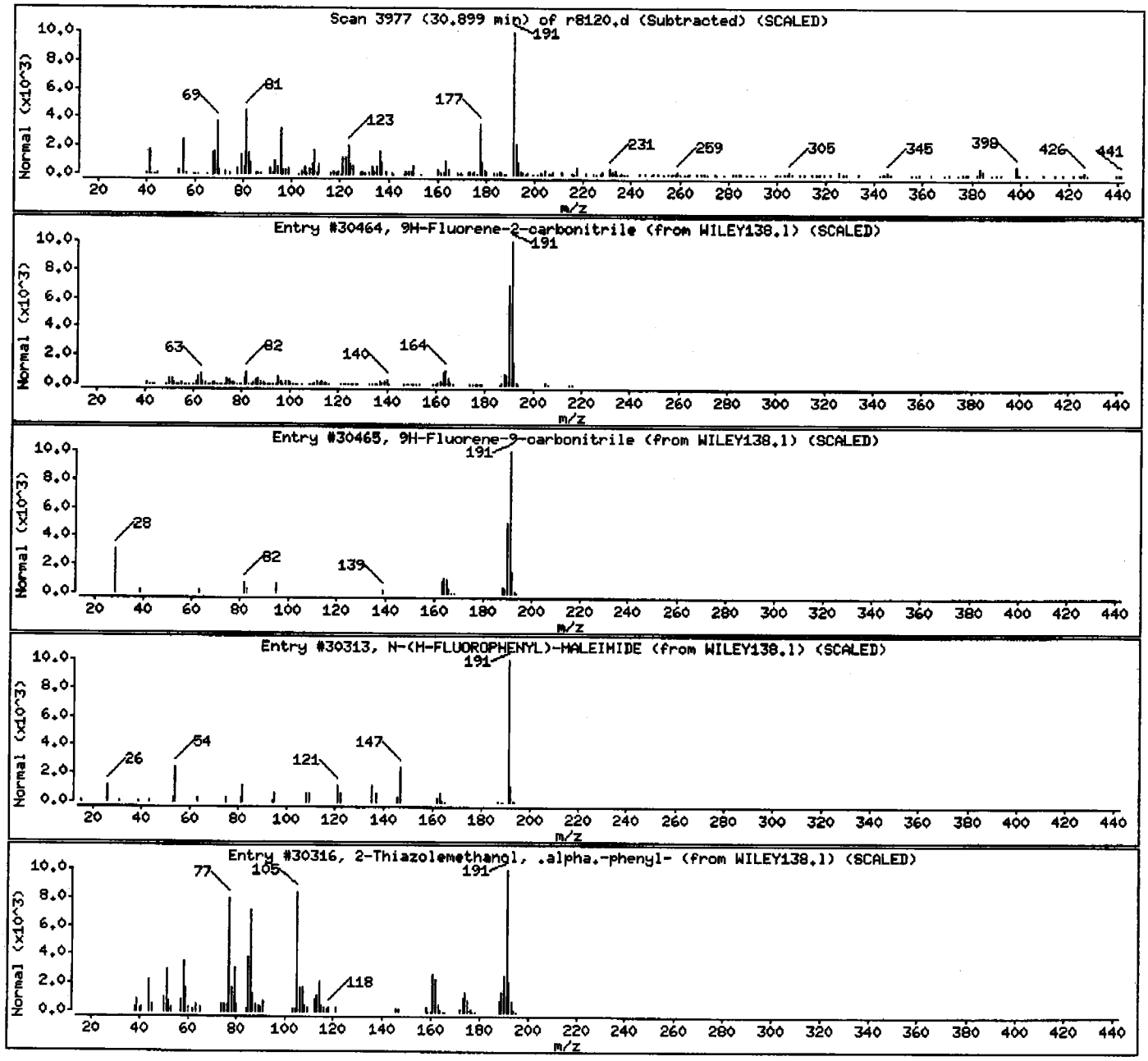
Client ID: HA-01-12-0-6 Instrument: BNAMS1.i

Sample Info: 392309;888122

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9H-Fluorene-2-carbonitrile	2523-48-0	WILEY138.1	30464	47	C14H9N	191
9H-Fluorene-9-carbonitrile	1529-40-4	WILEY138.1	30465	47	C14H9N	191
N-(M-FLUOROPHENYL)-MALEIMIDE	0-00-0	WILEY138.1	30313	46	C10H6FNO2	191
2-Thiazolemethanol, .alpha.-phenyl-	879-52-7	WILEY138.1	30316	46	C10H9NOS	191



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d

Date : 07-DEC-2002 10:33

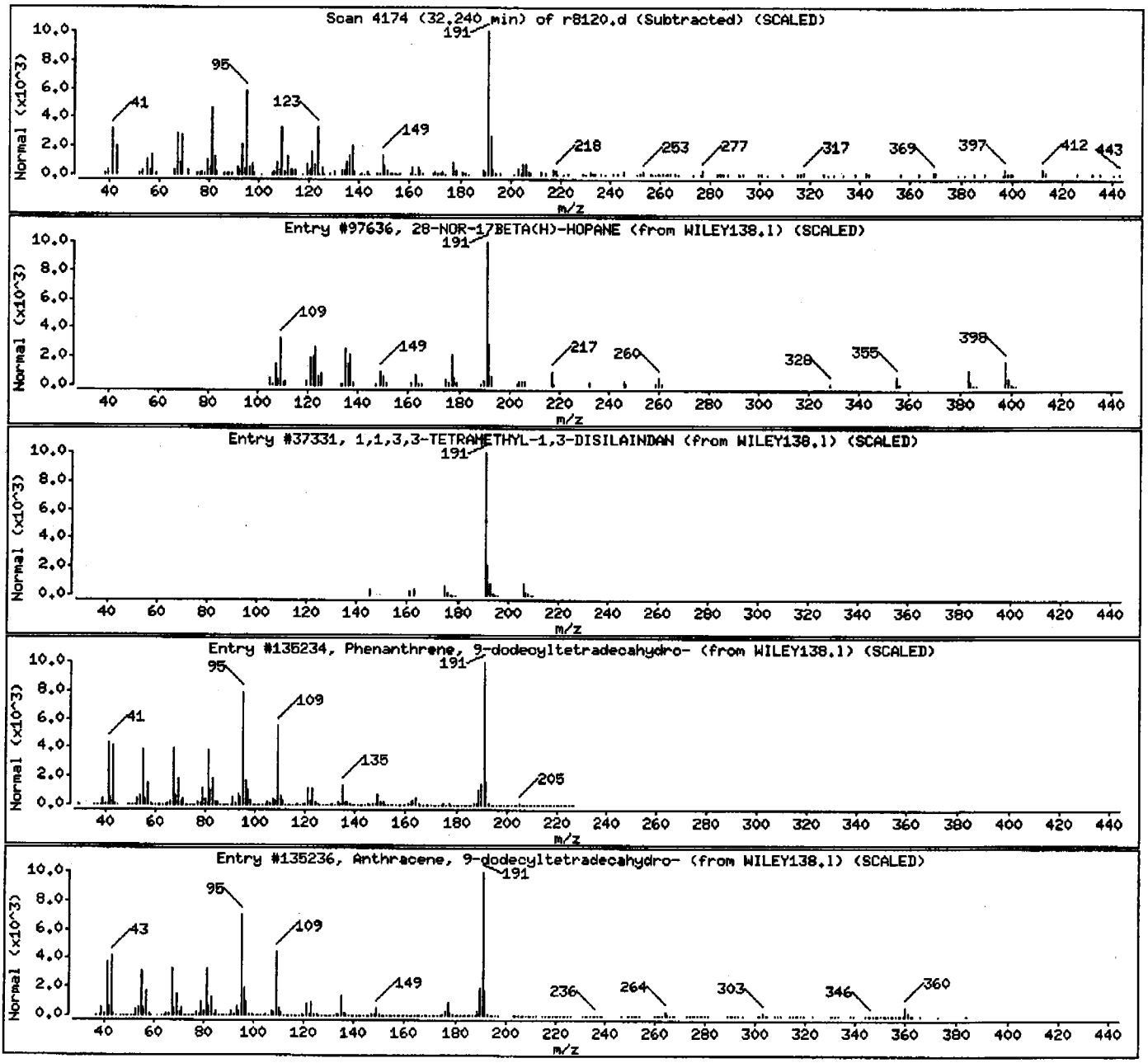
Client ID: HA-01-12-0-6 Instrument: BNAMS1.i

Sample Info: 392309;888122

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
28-NOR-17BETA(H)-HOPANE	36728-72-0	WILEY138.1	97636	78	C29H50	398
1,1,3,3-TETRAMETHYL-1,3-DISILAINDAN	54113-93-8	WILEY138.1	37331	56	C11H18Si2	206
Phenanthrene, 9-dodecyltetradecahydro-	55334-01-5	WILEY138.1	135234	42	C26H48	360
Anthracene, 9-dodecyltetradecahydro-	55401-75-7	WILEY138.1	135236	42	C26H48	360



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8120.d

Date : 07-DEC-2002 10:33

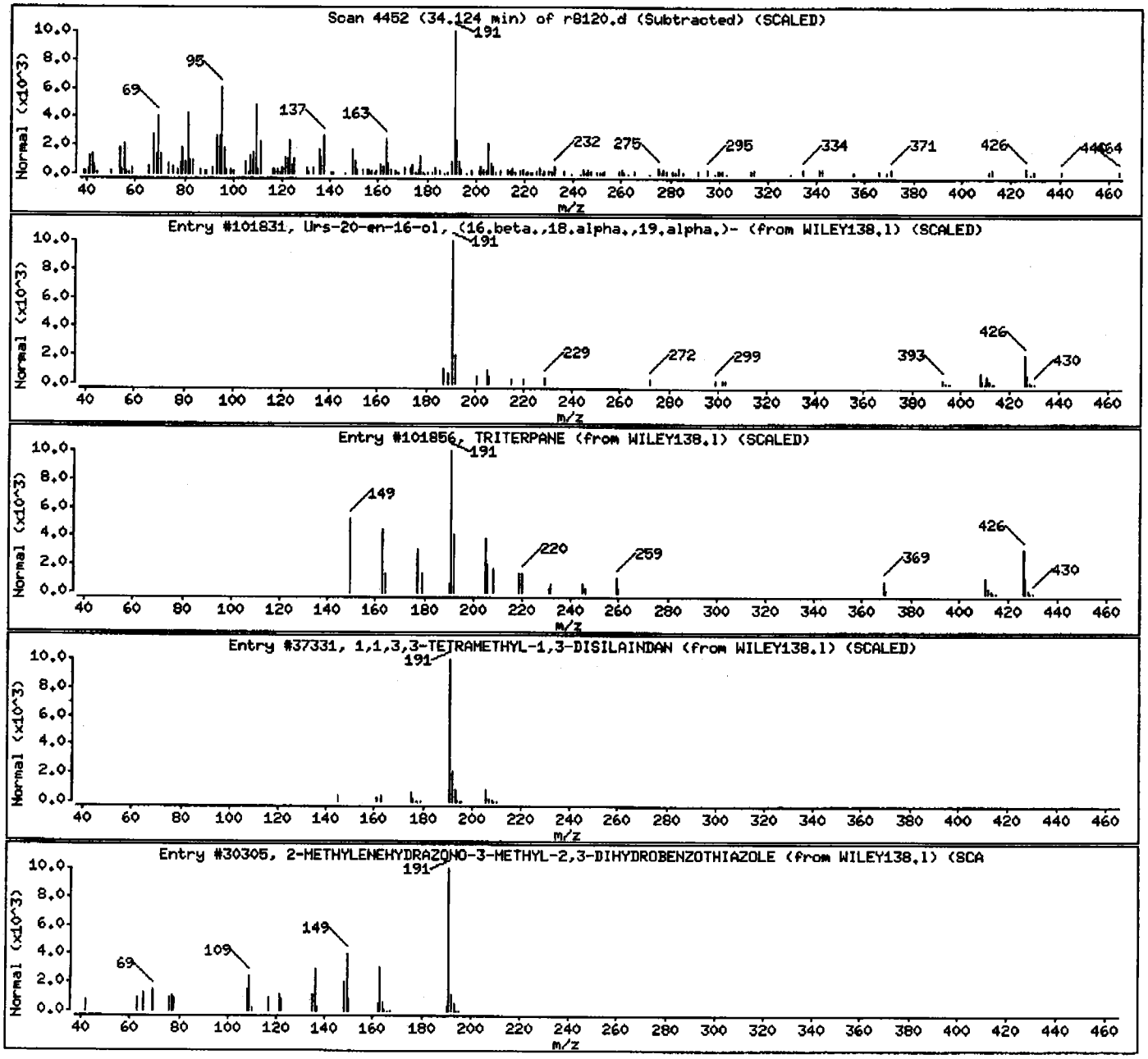
Client ID: HA-01-12-0-6 Instrument: BNAMS1.i

Sample Info: 392309;888122

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Urs-20-en-16-ol, (16.beta.,18.alpha.,19.	66394-74-9	WILEY138.1	101831	64	C30H50O	426
TRITERPANE	0-00-0	WILEY138.1	101856	53	C31H54	426
1,1,3,3-TETRAMETHYL-1,3-DISILAINDAN	54113-93-8	WILEY138.1	37331	42	C11H18Si2	206
2-METHYLENEHYDRAZONO-3-METHYL-2,3-DIHYDR	63149-32-6	WILEY138.1	30305	38	C9H9N3S	191



Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8117.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 6

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	350
2-Chlorophenol	ND	350
2-Methylphenol	ND	350
4-Methylphenol	ND	350
2-Nitrophenol	ND	350
2,4-Dimethylphenol	ND	350
2,4-Dichlorophenol	ND	350
4-Chloro-3-methylphenol	ND	350
2,4,6-Trichlorophenol	ND	350
2,4,5-Trichlorophenol	ND	350
2,4-Dinitrophenol	ND	1400
4-Nitrophenol	ND	1400
4,6-Dinitro-2-methylphenol	ND	1400
Pentachlorophenol	ND	1400

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8117.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 6

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	35
1,3-Dichlorobenzene	ND	350
1,4-Dichlorobenzene	ND	350
1,2-Dichlorobenzene	ND	350
bis(2-chloroisopropyl)ether	ND	350
N-Nitroso-di-n-propylamine	ND	35
Hexachloroethane	ND	35
Nitrobenzene	ND	35
Isophorone	ND	350
bis(2-Chloroethoxy)methane	ND	350
1,2,4-Trichlorobenzene	ND	35
Naphthalene	ND	350
4-Chloroaniline	ND	350
Hexachlorobutadiene	ND	71
2-Methylnaphthalene	ND	350
Hexachlorocyclopentadiene	ND	350
2-Chloronaphthalene	ND	350
2-Nitroaniline	ND	710
Dimethylphthalate	ND	350
Acenaphthylene	ND	350
2,6-Dinitrotoluene	ND	71
3-Nitroaniline	ND	710
Acenaphthene	ND	350
Dibenzofuran	ND	350
2,4-Dinitrotoluene	ND	71
Diethylphthalate	ND	350
4-Chlorophenyl-phenylether	ND	350
Fluorene	ND	350
4-Nitroaniline	ND	710
N-Nitrosodiphenylamine	ND	350
4-Bromophenyl-phenylether	ND	350
Hexachlorobenzene	ND	35
Phenanthrene	ND	350
Anthracene	ND	350

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8117.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 6

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	350
Di-n-butylphthalate	ND	350
Fluoranthene	ND	350
Pyrene	ND	350
Butylbenzylphthalate	ND	350
3,3'-Dichlorobenzidine	ND	710
Benzo(a)anthracene	ND	35
Chrysene	ND	350
bis(2-Ethylhexyl)phthalate	ND	350
Di-n-octylphthalate	ND	350
Benzo(b)fluoranthene	ND	35
Benzo(k)fluoranthene	ND	35
Benzo(a)pyrene	ND	35
Indeno(1,2,3-cd)pyrene	ND	35
Dibenz(a,h)anthracene	ND	35
Benzo(g,h,i)perylene	ND	350

Client ID: **HA-01-11-0-6**
Site: Earle NWS Closure

Lab Sample No: **392310**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8117.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 5.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8117.d
Report Date: 08-Dec-2002 07:02

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8117.d
Lab Smp Id: 392310 Client Smp ID: HA-01-11-0-6
Inj Date : 07-DEC-2002 08:13
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392310;888157
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/8270c1.m
Meth Date : 07-Dec-2002 07:19 wahied Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	5.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.613	10.594	(0.813)	2280015	69.4759	4900
$ 17 Phenol-d5 (SUR)	99	12.411	12.418	(0.950)	2644073	72.1572	5100
* 79 1,4-Dichlorobenzene-d4	152	13.059	13.062	(1.000)	690419	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.014	14.022	(0.919)	961347	34.0912	2400
* 80 Naphthalene-d8	136	15.244	15.246	(1.000)	2889178	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.036	17.044	(0.937)	1949766	34.4008	2400
* 82 Acenaphthene-d10	164	18.181	18.185	(1.000)	1741896	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.489	19.493	(1.072)	616028	68.2670	4800
* 83 Phenanthrene-d10	188	20.653	20.661	(1.000)	3530725	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.284	23.282	(0.928)	2181335	38.0362	2700
* 81 Chrysene-d12	240	25.088	25.108	(1.000)	2671398	40.0000	
* 84 Perylene-d12	264	28.714	28.738	(1.000)	2814808	40.0000	

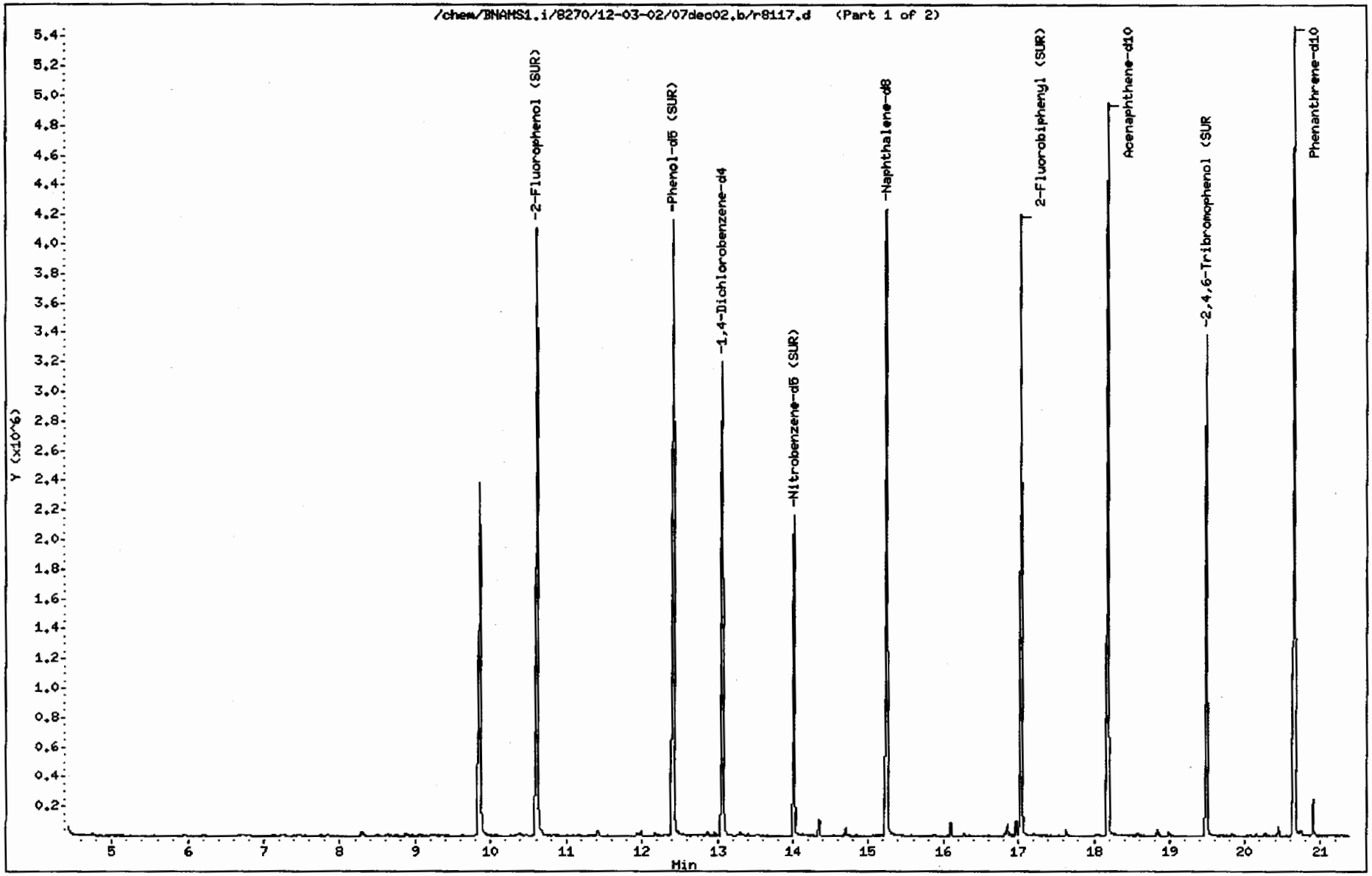
Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8117.d
Date : 07-DEC-2002 08:13
Client ID: HA-01-11-0-6
Sample Info: 392310;888157

Instrument: BNAMS1.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25



602

STL Edison

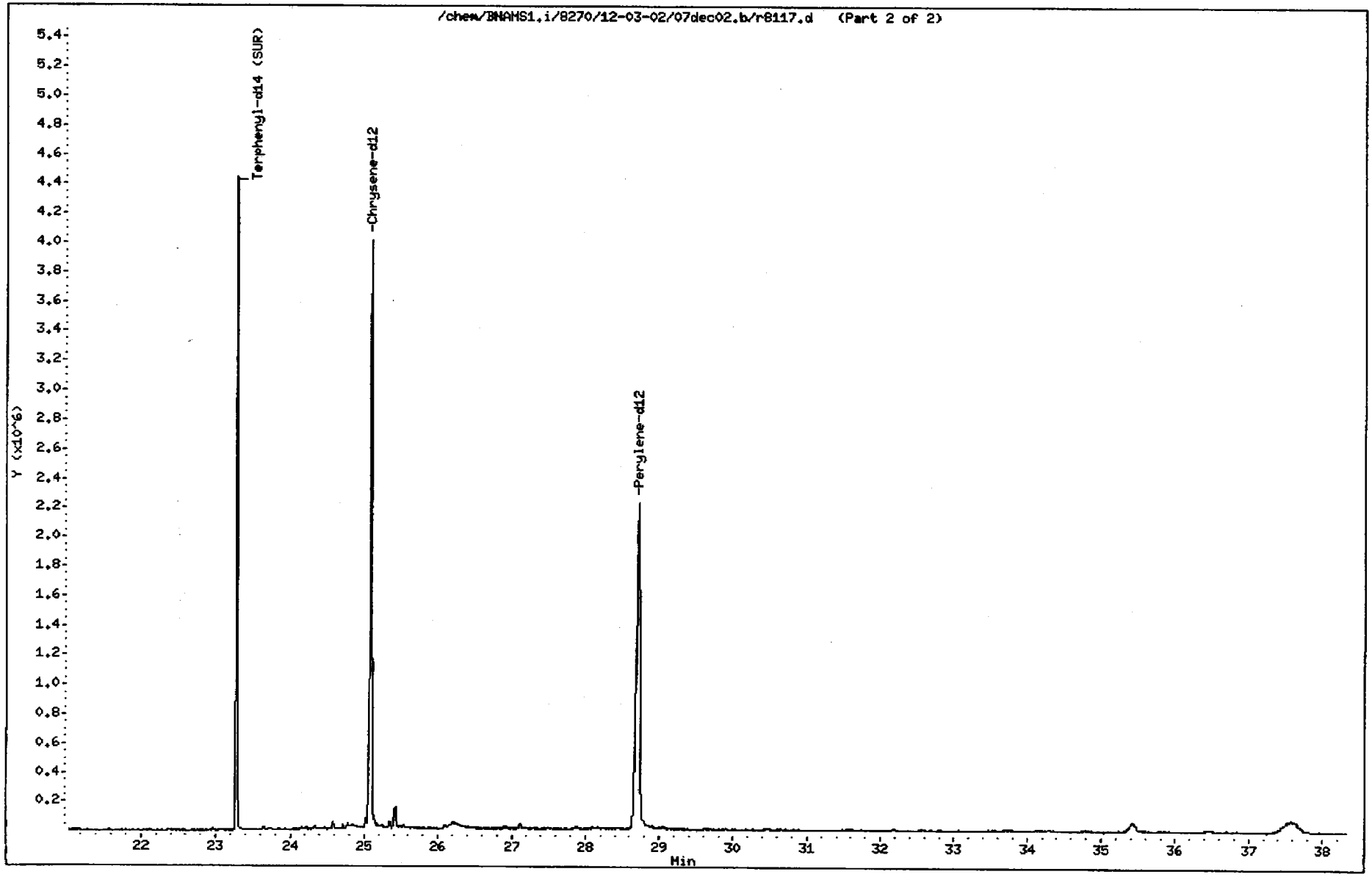
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8117.d
Date : 07-DEC-2002 08:13
Client ID: HA-01-11-0-6
Sample Info: 392310;888157

Column phase: DB-5

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25



603

STL Edison

D092

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8118.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8118.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	74
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	16 J	370
2,6-Dinitrotoluene	ND	74
3-Nitroaniline	ND	740
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	740
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8118.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	8.6J	370
Pyrene	8.1J	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	37
Chrysene	ND	370
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	ND	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-10-0-6**
Site: Earle NWS Closure

Lab Sample No: **392311**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8118.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.1

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8118.d
Report Date: 08-Dec-2002 07:02

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8118.d
Lab Smp Id: 392311 Client Smp ID: HA-01-10-0-6
Inj Date : 07-DEC-2002 09:00
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392311;888192
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/8270c1.m
Meth Date : 07-Dec-2002 07:19 wahied Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	10.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.614	10.594	(0.813)	2521382	73.1853	5400
$ 17 Phenol-d5 (SUR)	99	12.413	12.418	(0.950)	2969878	77.2029	5700
* 79 1,4-Dichlorobenzene-d4	152	13.062	13.062	(1.000)	724810	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.011	14.022	(0.919)	1134028	38.3354	2800
* 80 Naphthalene-d8	136	15.242	15.246	(1.000)	3030827	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.036	17.044	(0.937)	2240643	38.5145	2800
39 Acenaphthylene	152	17.941	17.955	(0.987)	15719	0.21713	16(a)
* 82 Acenaphthene-d10	164	18.183	18.185	(1.000)	1787959	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.489	19.493	(1.072)	581837	62.8169	4600
* 83 Phenanthrene-d10	188	20.657	20.661	(1.000)	3493882	40.0000	
56 Fluoranthene	202	22.661	22.681	(1.097)	10587	0.11607	8.6(aH)
57 Pyrene	202	23.037	23.064	(0.918)	9378	0.10908	8.1(a)
$ 78 Terphenyl-d14 (SUR)	244	23.282	23.282	(0.928)	2128256	39.5336	2900
* 81 Chrysene-d12	240	25.090	25.108	(1.000)	2507675	40.0000	

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8118.d
Report Date: 08-Dec-2002 07:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 84 Perylene-d12	264	28.728	28.738	(1.000)	2482287	40.0000	

QC Flag Legend

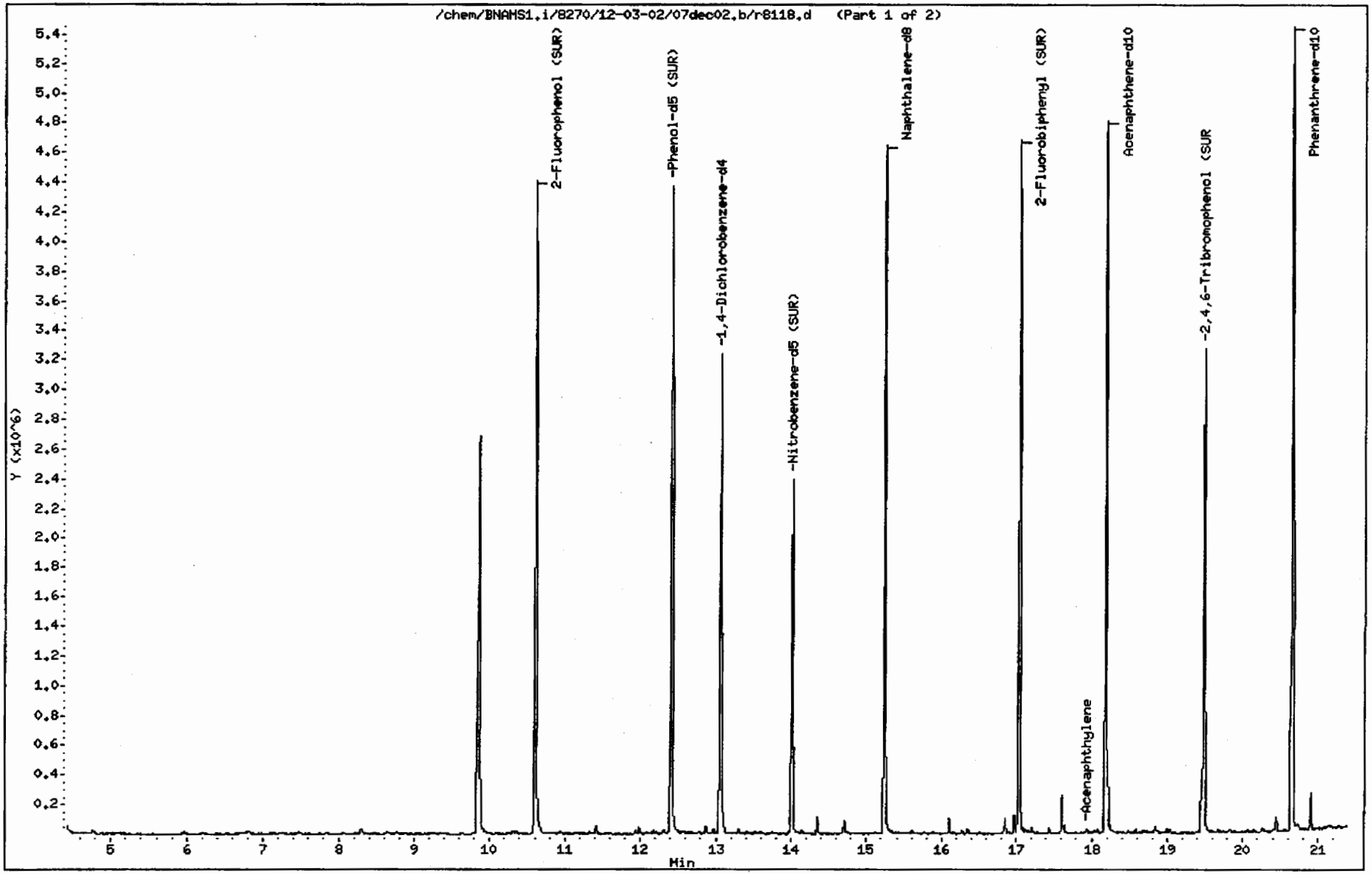
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8118.d
Date : 07-DEC-2002 09:00
Client ID: HA-01-10-0-6
Sample Info: 392311;888192

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



610

STL Edison

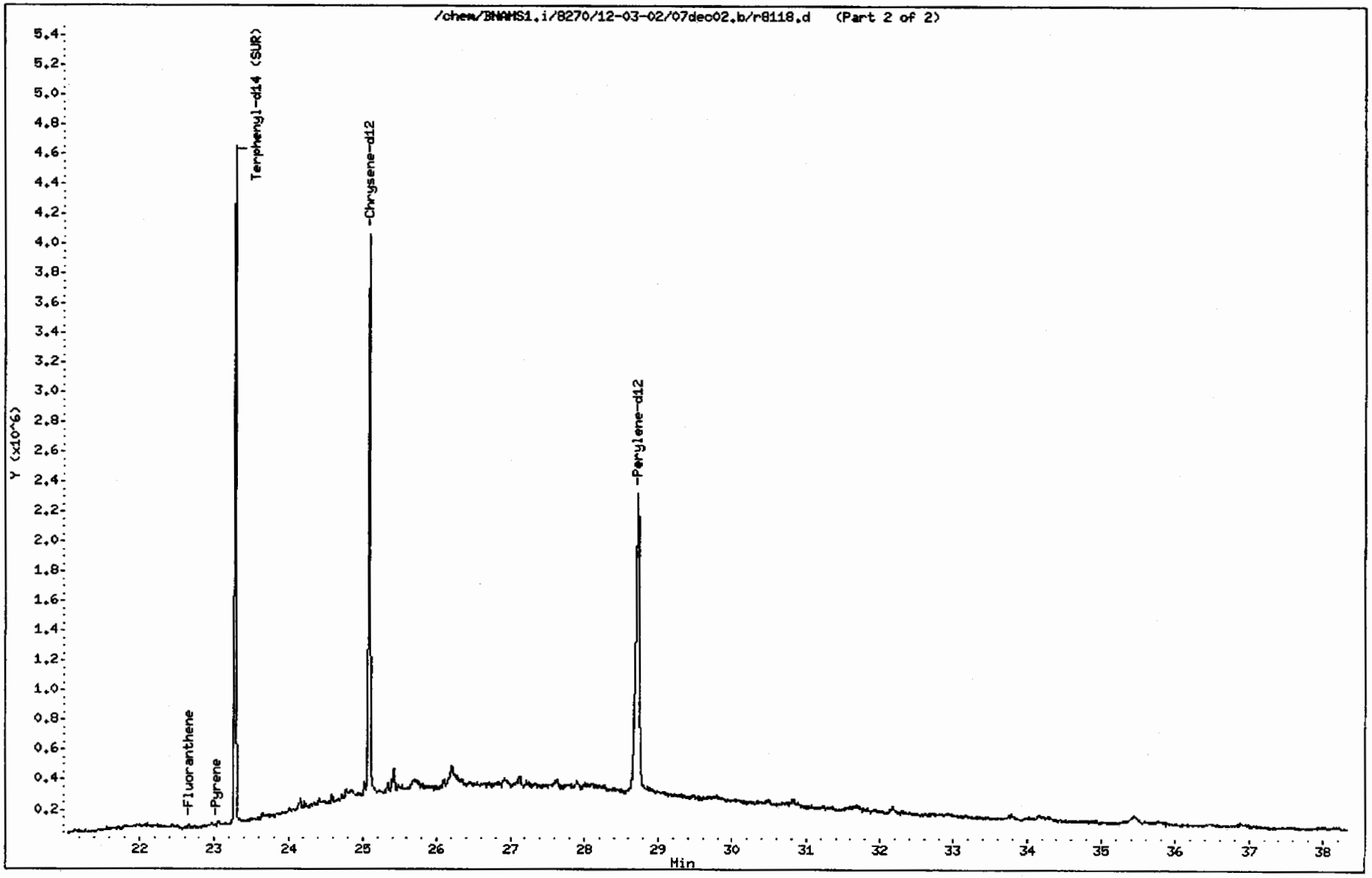
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8118.d
Date : 07-DEC-2002 09:00
Client ID: HA-01-10-0-6
Sample Info: 392311;888192

Column phase: DB-5

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25



611

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8118.d

Date : 07-DEC-2002 09:00

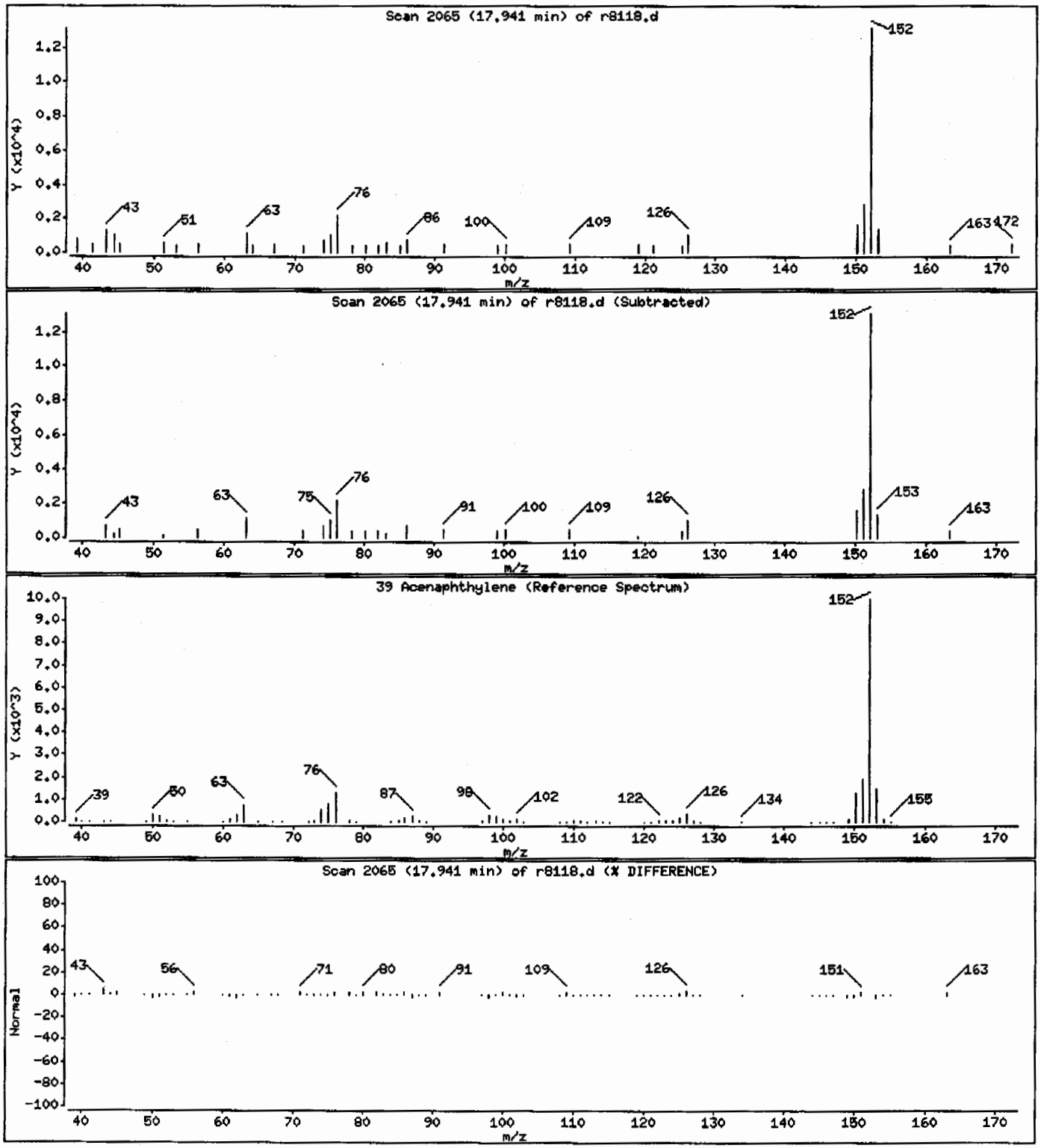
Client ID: HA-01-10-0-6 Instrument: BNAMS1.i

Sample Info: 392311;888192

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

39 Acenaphthylene Concentration: 16 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8118.d

Date : 07-DEC-2002 09:00

Client ID: HA-01-10-0-6

Instrument: BNAMS1.i

Sample Info: 392311;888192

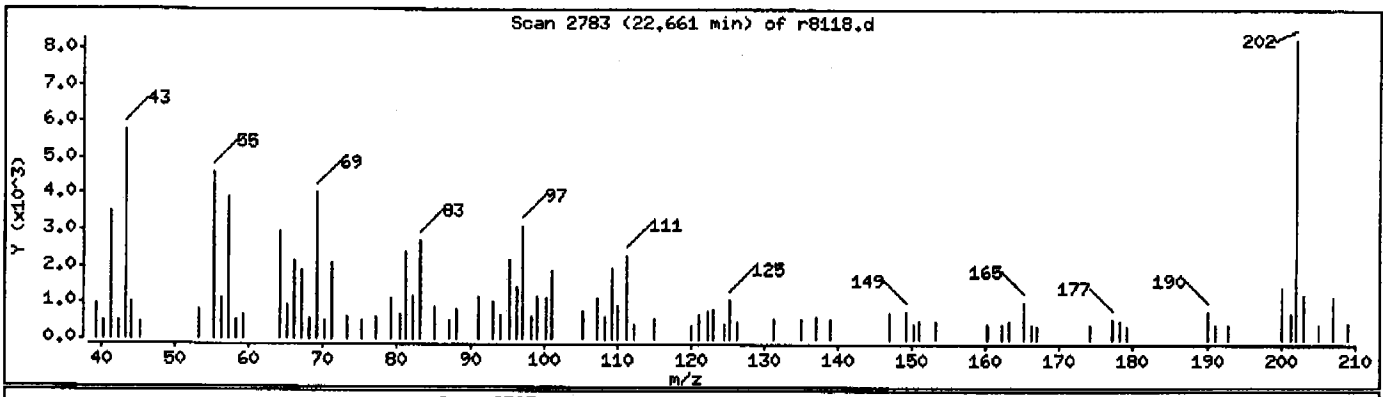
Operator: BNAMS 4

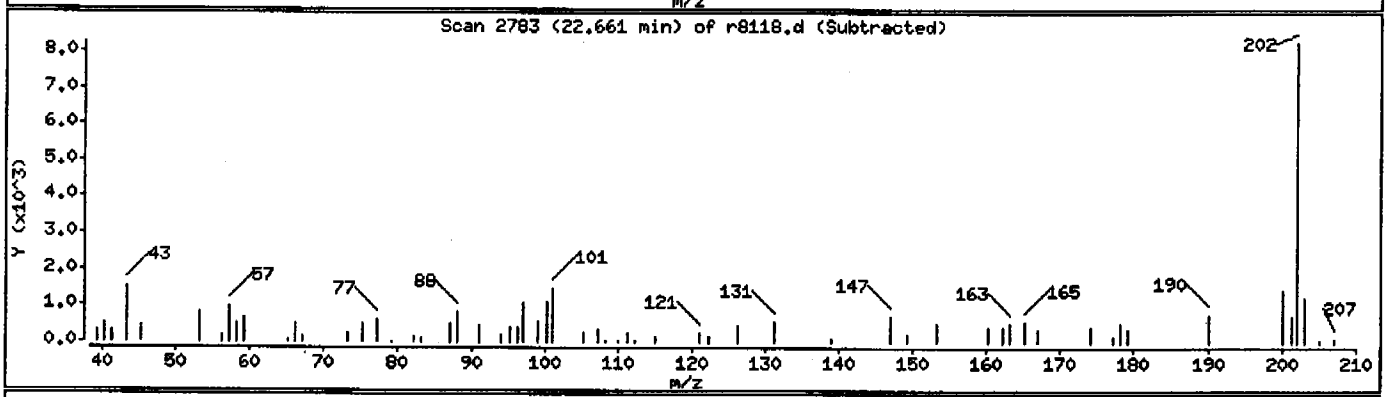
Column phase: DB-5

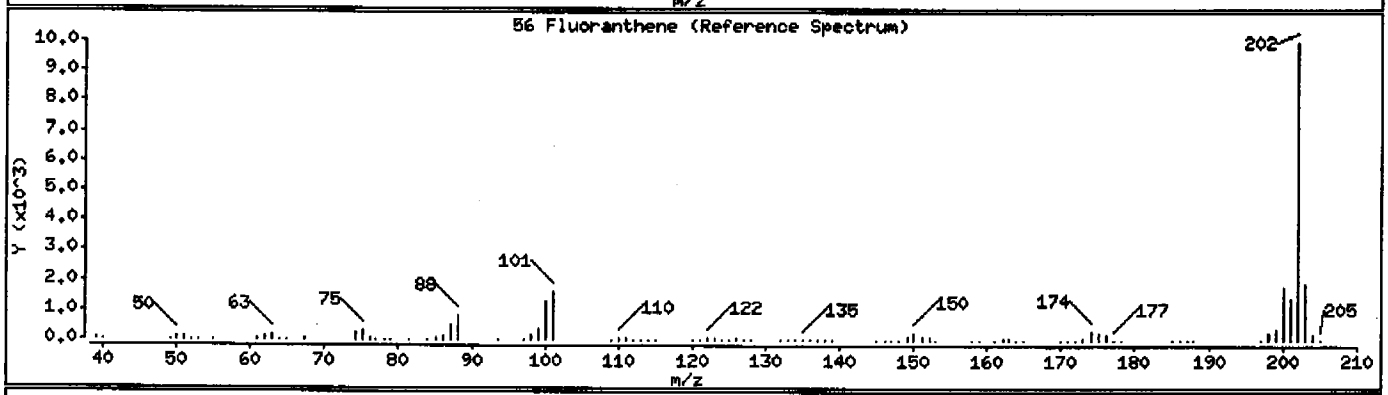
Column diameter: 0.25

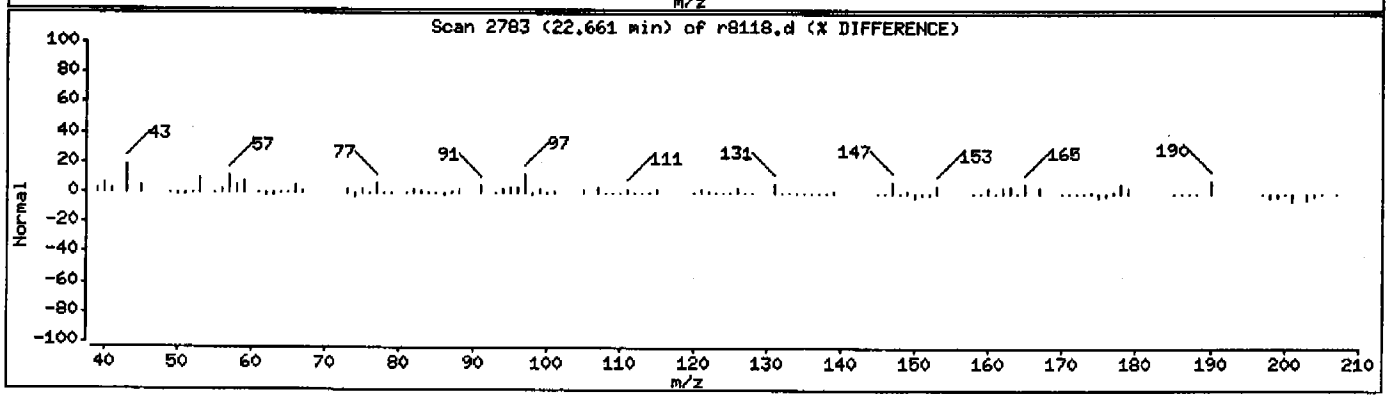
56 Fluoranthene

Concentration: 8.6 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8118.d

Date : 07-DEC-2002 09:00

Client ID: HA-01-10-0-6

Instrument: BNAMS1.i

Sample Info: 392311;888192

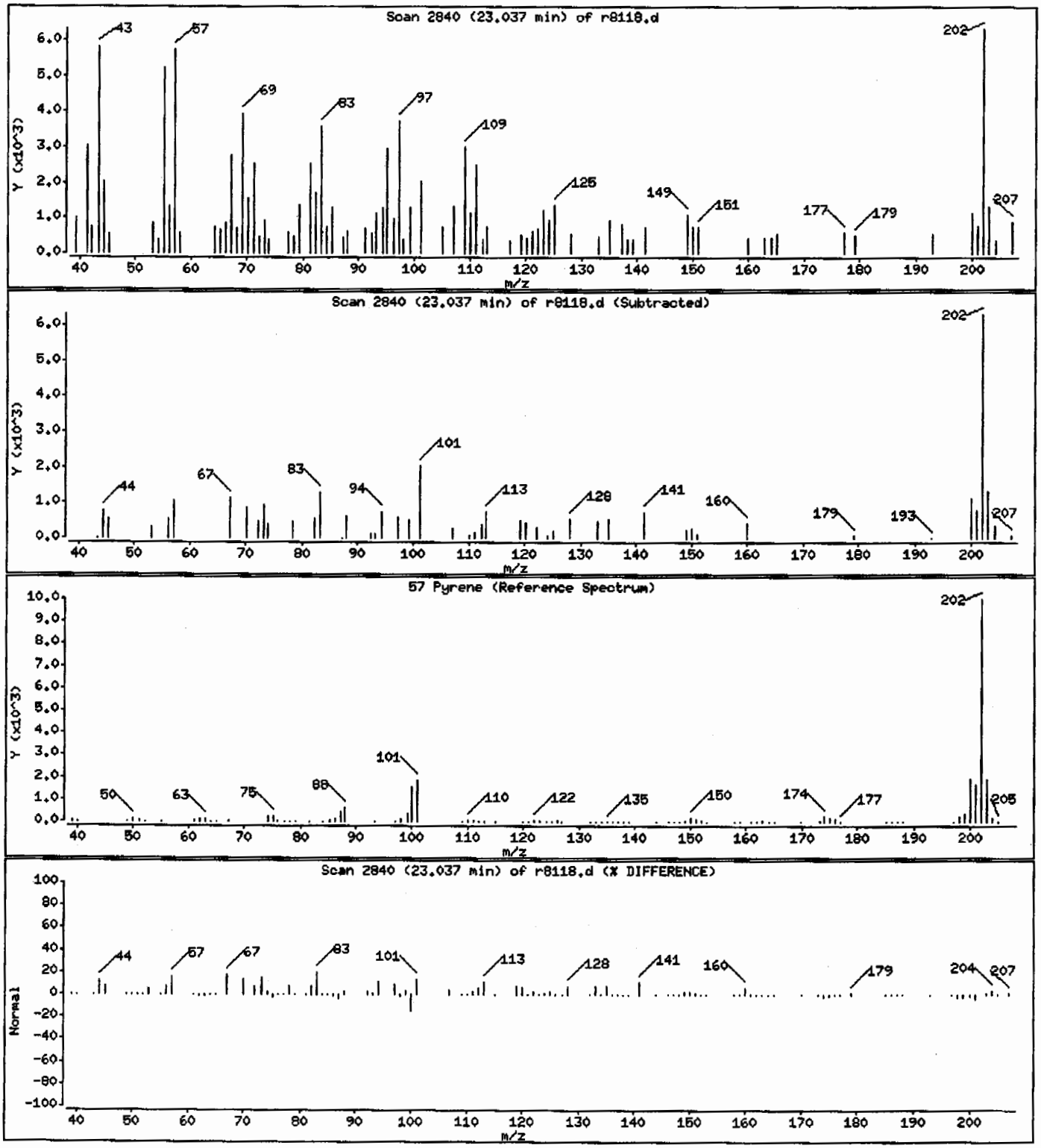
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 8.1 ug/Kg



Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8251.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8251.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	75
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	750
Dimethylphthalate	ND	370
Acenaphthylene	ND	370
2,6-Dinitrotoluene	ND	75
3-Nitroaniline	ND	750
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	75
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	750
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8251.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	ND	370
Pyrene	13 J	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	750
Benzo(a)anthracene	ND	37
Chrysene	ND	370
bis(2-Ethylhexyl)phthalate	500	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	ND	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-09-0-6**
Site: Earle NWS Closure

Lab Sample No: **392312**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8251.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. 1,3-Isobenzofurandione	16.10	490	
2. Unknown	18.24	610	
3. Unknown Alkane	27.00	350	
4. Unknown	38.82	2200	
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 3650

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d
Report Date: 05-Dec-2002 12:18

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d
Lab Smp Id: 392312 Client Smp ID: HA-01-09-0-6RE
Inj Date : 04-DEC-2002 19:21
Operator : BNAMS 4 N Inst ID: BNAMS4.i
Smp Info : 392312;894387
Misc Info : D092;SB330;QA9020
Comment :
Method : /chem/BNAMS4.i/8270/12-03-02/04dec02.b/8270c1.m
Meth Date : 04-Dec-2002 10:36 rusin Quant Type: ISTD
Cal Date : 03-DEC-2002 15:11 Cal File: u8223.d
Als bottle: 13 JR
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	10.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.178	10.164	(0.804)	690070	79.9458	6000
$ 17 Phenol-d5 (SUR)	99	12.044	12.042	(0.952)	1087397	79.4445	5900
* 79 1,4-Dichlorobenzene-d4	152	12.653	12.652	(1.000)	211281	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	13.613	13.622	(0.918)	674427	38.2999	2900
* 80 Naphthalene-d8	136	14.830	14.837	(1.000)	807425	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	16.624	16.631	(0.937)	736798	41.3959	3100
* 82 Acenaphthene-d10	164	17.750	17.755	(1.000)	549555	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.047	19.053	(1.073)	307777	72.7299	5400
* 83 Phenanthrene-d10	188	20.200	20.210	(1.000)	1060692	40.0000	
57 Pyrene	202	22.568	22.586	(0.929)	4527	0.17061	13(aMH)
$ 78 Terphenyl-d14 (SUR)	244	22.821	22.819	(0.929)	960513	48.8245	3600
63 bis(2-Ethylhexyl)phthalate	149	24.527	24.531	(0.999)	146509	6.65127	500
* 81 Chrysene-d12	240	24.560	24.572	(1.000)	905717	40.0000	

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d
Report Date: 05-Dec-2002 12:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 84 Perylene-d12	264	27.723	27.740	(1.000)	727636	40.0000	

QC Flag Legend

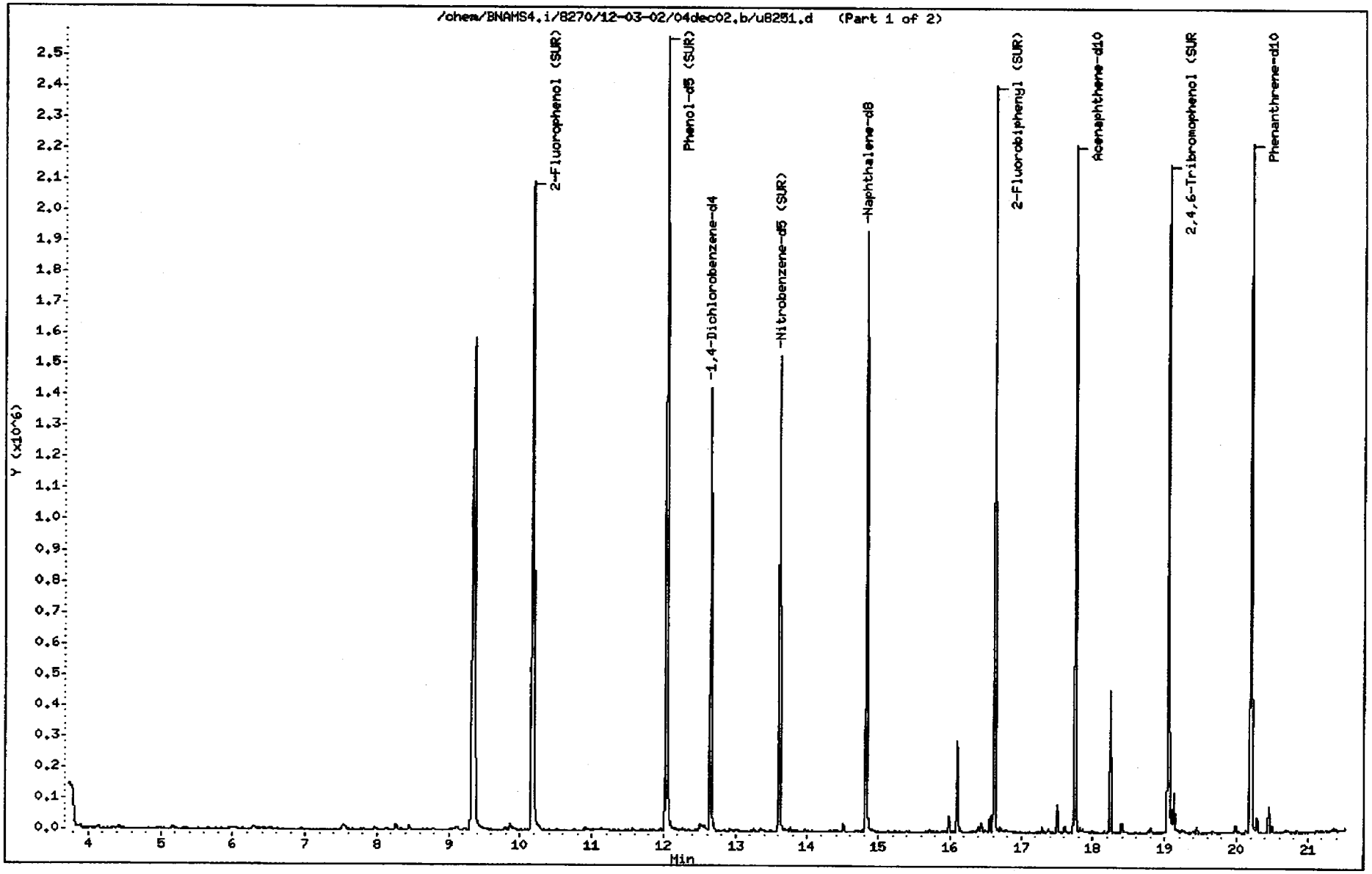
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d
Date : 04-DEC-2002 19:21
Client ID: HA-01-09-0-6RE
Sample Info: 392312;894387

Instrument: BNAMS4.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



621

STL Edison

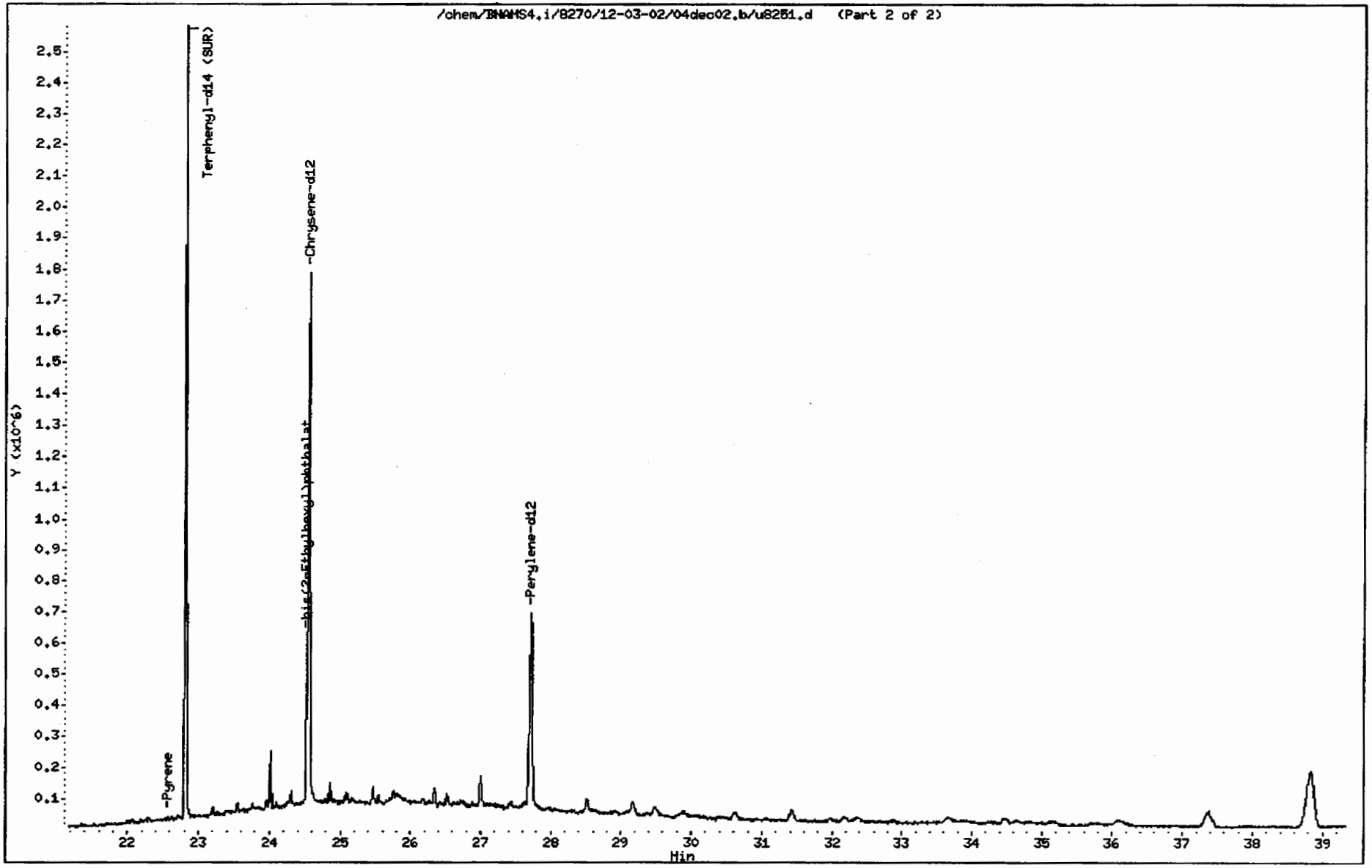
D092

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d
Date : 04-DEC-2002 19:21
Client ID: HA-01-09-0-6RE
Sample Info: 392312;894387

Column phase: DB-5

Instrument: BNAMS4.i

Operator: BNAMS 4
Column diameter: 0.25



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d

Date : 04-DEC-2002 19:21

Client ID: HA-01-09-0-6RE

Instrument: BNAMS4.i

Sample Info: 392312;894387

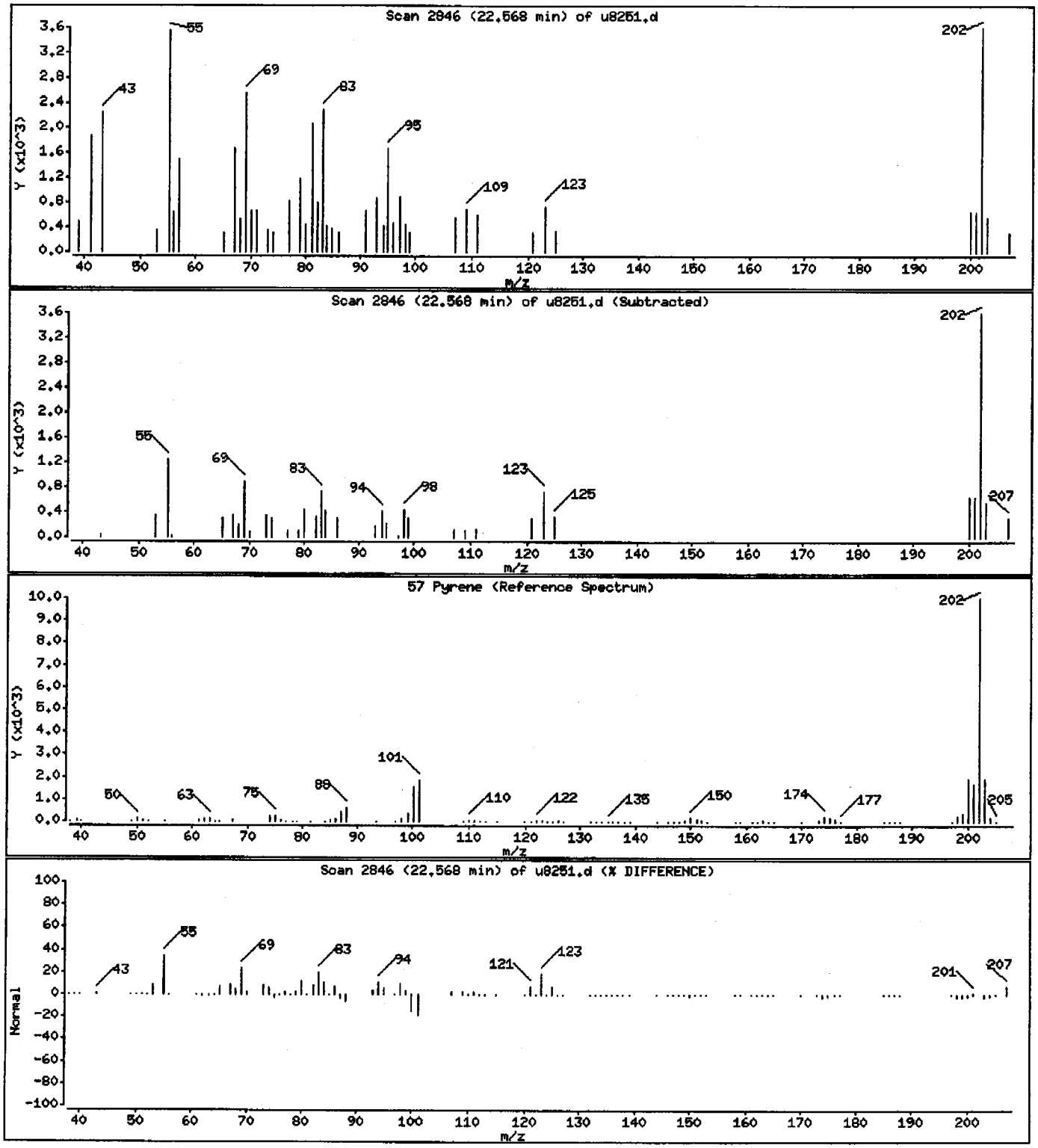
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 13 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d

Date : 04-DEC-2002 19:21

Client ID: HA-01-09-0-6RE

Instrument: BNAMS4.i

Sample Info: 392312;894387

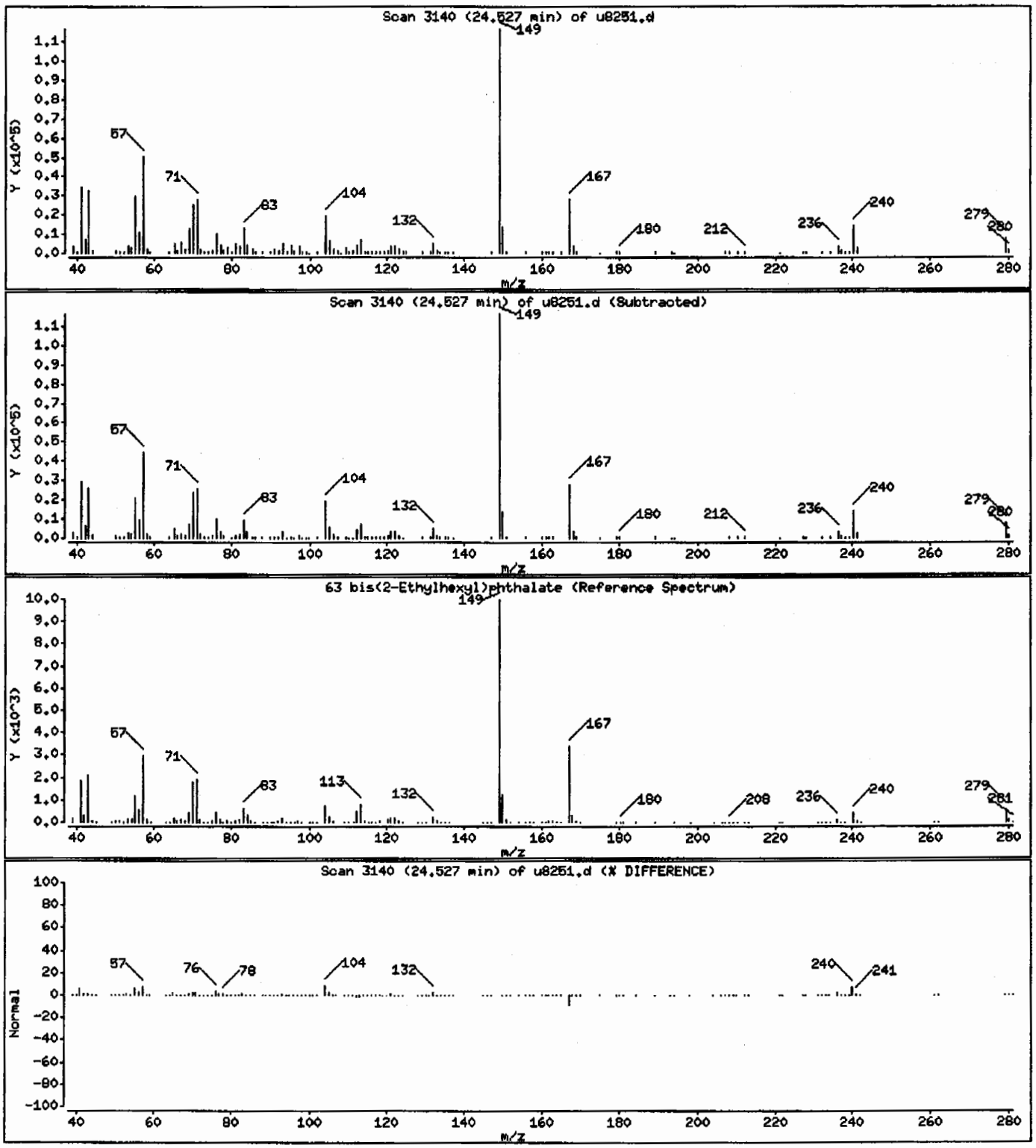
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

63 bis(2-Ethylhexyl)phthalate

Concentration: 500 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d

Date : 04-DEC-2002 19:21

Client ID: HA-01-09-0-6RE

Instrument: BNAMS4.i

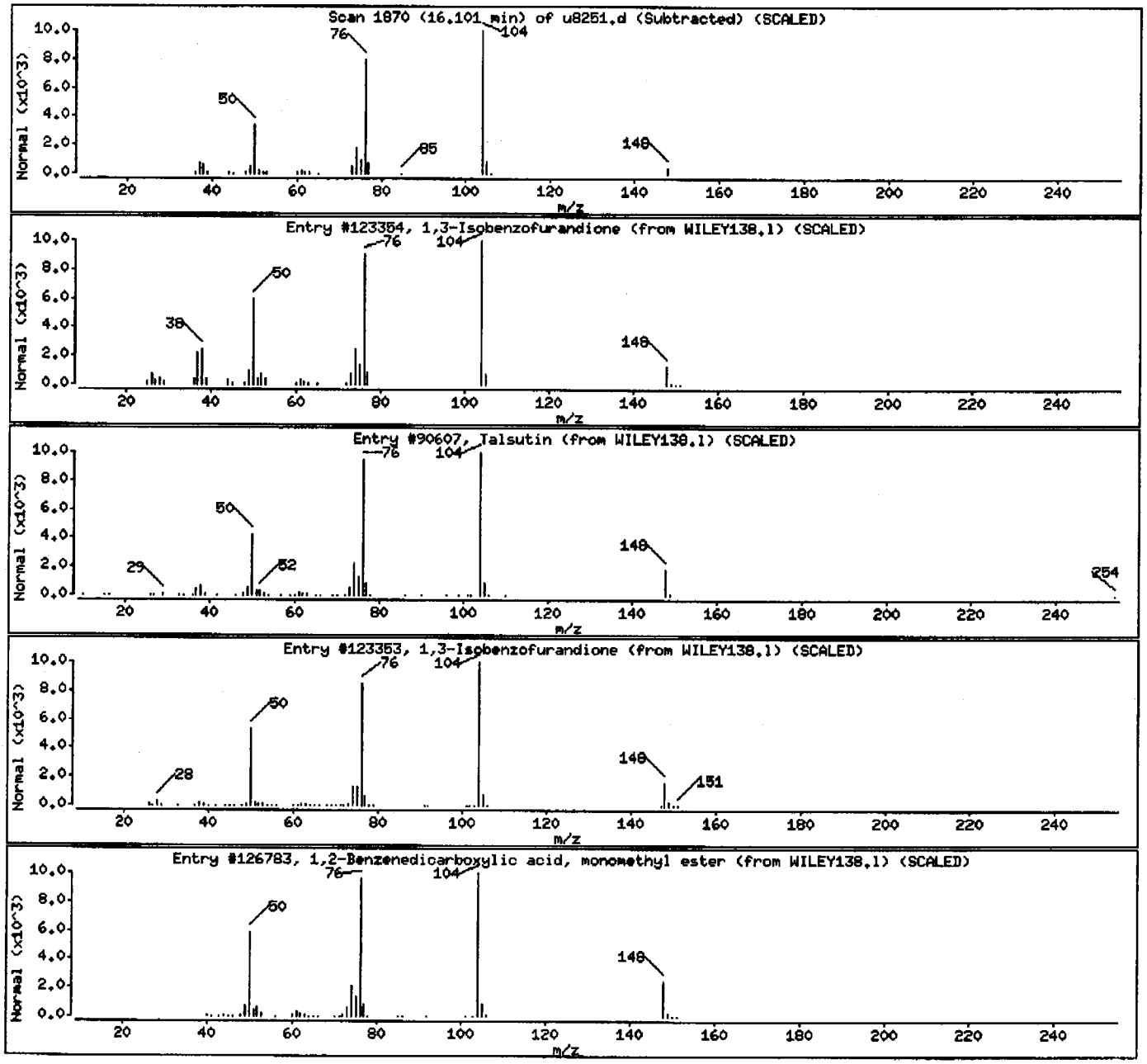
Sample Info: 392312;894387

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Isobenzofurandione	85-44-9	WILEY138.1	123354	95	C8H4O3	148
Talsutin	131-69-1	WILEY138.1	90607	91	C16H14N2O6S	362
1,3-Isobenzofurandione	85-44-9	WILEY138.1	123353	90	C8H4O3	148
1,2-Benzenedicarboxylic acid, monomethyl	4376-18-5	WILEY138.1	126783	78	C9H8O4	180



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d

Date : 04-DEC-2002 19:21

Client ID: HA-01-09-0-6RE

Instrument: BNAMS4.i

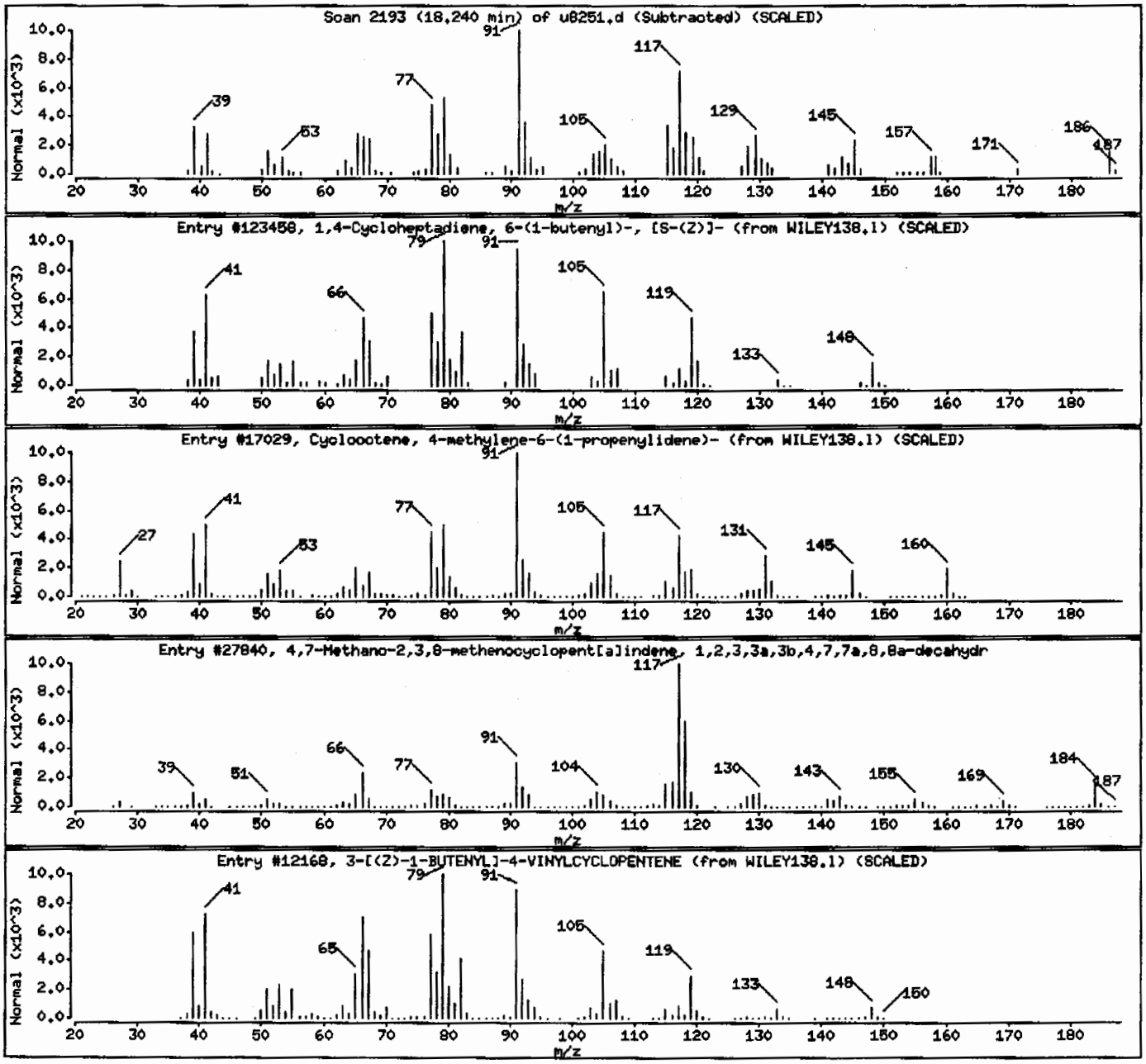
Sample Info: 392312;894387

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,4-Cycloheptadiene, 6-(1-butenyl)-, [S-	33156-92-2	WILEY138.1	123458	38	C11H16	148
Cyclooctene, 4-methylene-6-(1-propenylid	61142-29-8	WILEY138.1	17029	38	C12H16	160
4,7-Methano-2,3,8-methenocyclopent[a]ind	7781-74-0	WILEY138.1	27840	37	C14H16	184
3-[(Z)-1-BUTENYL]-4-VINYLCYCLOPENTENE	52886-04-1	WILEY138.1	12168	35	C11H16	148



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d

Date : 04-DEC-2002 19:21

Client ID: HA-01-09-0-6RE

Instrument: BNAMS4.i

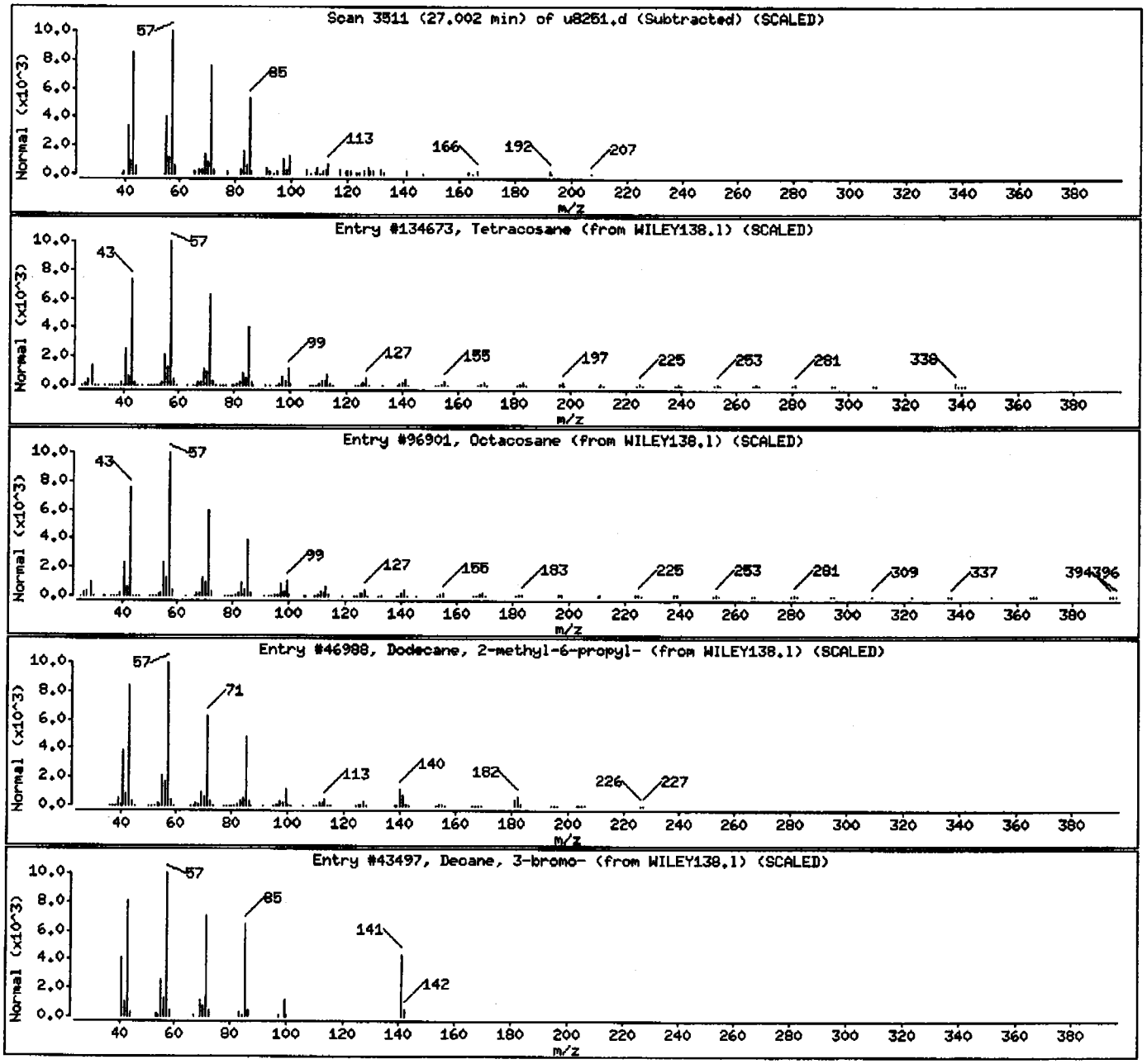
Sample Info: 392312;894387

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tetracosane	646-31-1	WILEY138.1	134673	86	C24H50	338
Octacosane	630-02-4	WILEY138.1	96901	72	C28H58	394
Dodecane, 2-methyl-6-propyl-	55045-08-4	WILEY138.1	46988	72	C16H34	226
Decane, 3-bromo-	30571-71-2	WILEY138.1	43497	72	C10H21Br	220



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8251.d

Date : 04-DEC-2002 19:21

Client ID: HA-01-09-0-6RE

Instrument: BNAMS4.i

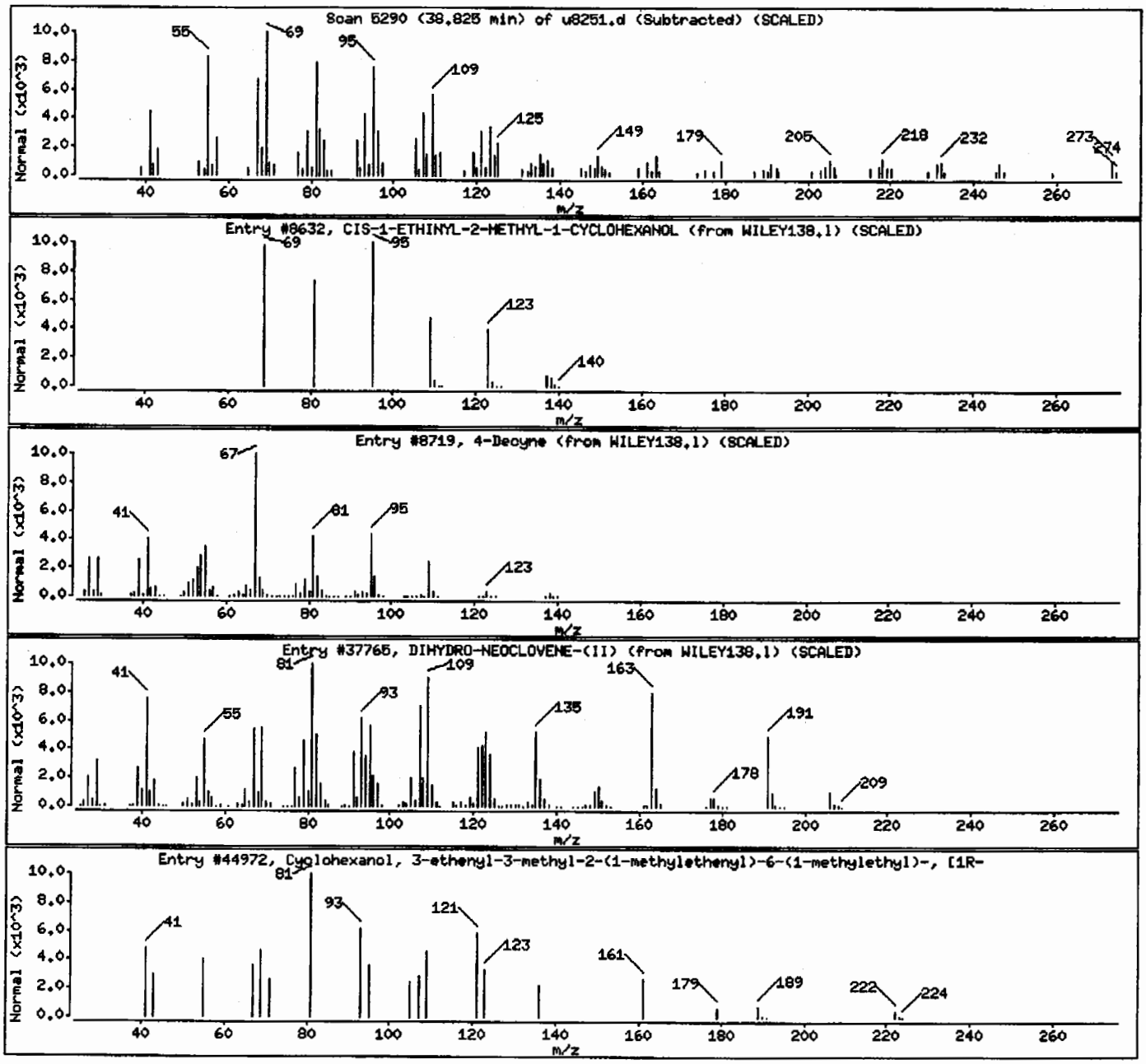
Sample Info: 392312;894387

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
CIS-1-ETHINYL-2-METHYL-1-CYCLOHEXANOL	36144-41-9	WILEY138.1	8632	58	C9H14O	138
4-Decyne	2384-86-3	WILEY138.1	8719	46	C10H18	138
DIHYDRO-NEOCLOVENE-(II)	0-00-0	WILEY138.1	37765	45	C15H26	206
Cyclohexanol, 3-ethenyl-3-methyl-2-(1-me	35727-45-8	WILEY138.1	44972	43	C15H26O	222



Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8126.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8126.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	74
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	ND	370
2,6-Dinitrotoluene	ND	74
3-Nitroaniline	ND	740
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	740
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8126.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	11 J	370
Pyrene	13 J	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	37
Chrysene	ND	370
bis(2-Ethylhexyl)phthalate	210 J	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	12 J	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392313**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8126.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Organic Acid	9.76	500	
2. 4-TOLUENESULFONAMIDE	19.57	470	
3. Unknown	24.48	320	
4. Unknown	26.18	660	
5. Unknown Alkane	27.92	320	
6. Unknown	29.70	380	
7. Unknown	33.20	370	
8. Unknown	36.78	630	
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 3650

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d
Report Date: 08-Dec-2002 07:02

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d
Lab Smp Id: 392313 Client Smp ID: HA-01-08-0-6
Inj Date : 07-DEC-2002 15:12
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392313;888262
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/8270c1.m
Meth Date : 07-Dec-2002 07:19 wahied Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	10.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.624	10.594	(0.813)	2598786	75.8434	5600
$ 17 Phenol-d5 (SUR)	99	12.424	12.418	(0.951)	2989665	78.1412	5800
* 79 1,4-Dichlorobenzene-d4	152	13.066	13.062	(1.000)	720878	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.023	14.022	(0.920)	1194074	40.2639	3000
* 80 Naphthalene-d8	136	15.248	15.246	(1.000)	3038452	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.044	17.044	(0.937)	2330970	40.0908	3000
* 82 Acenaphthene-d10	164	18.192	18.185	(1.000)	1786902	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.498	19.493	(1.072)	692428	74.8009	5500
* 83 Phenanthrene-d10	188	20.669	20.661	(1.000)	3632364	40.0000	
56 Fluoranthene	202	22.672	22.681	(1.097)	13580	0.14321	11(a)
57 Pyrene	202	23.055	23.064	(0.918)	14702	0.17181	13(a)
$ 78 Terphenyl-d14 (SUR)	244	23.293	23.282	(0.928)	2187292	40.8202	3000
63 bis(2-Ethylhexyl)phthalate	149	25.038	25.041	(0.997)	160290	2.86077	210(a)
* 81 Chrysene-d12	240	25.105	25.108	(1.000)	2496007	40.0000	

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d
Report Date: 08-Dec-2002 07:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
65 Benzo(b)fluoranthene	252	27.546	27.564	(0.958)	10604	0.16060	12(aM)
* 84 Perylene-d12	264	28.749	28.738	(1.000)	2330558	40.0000	

QC Flag Legend

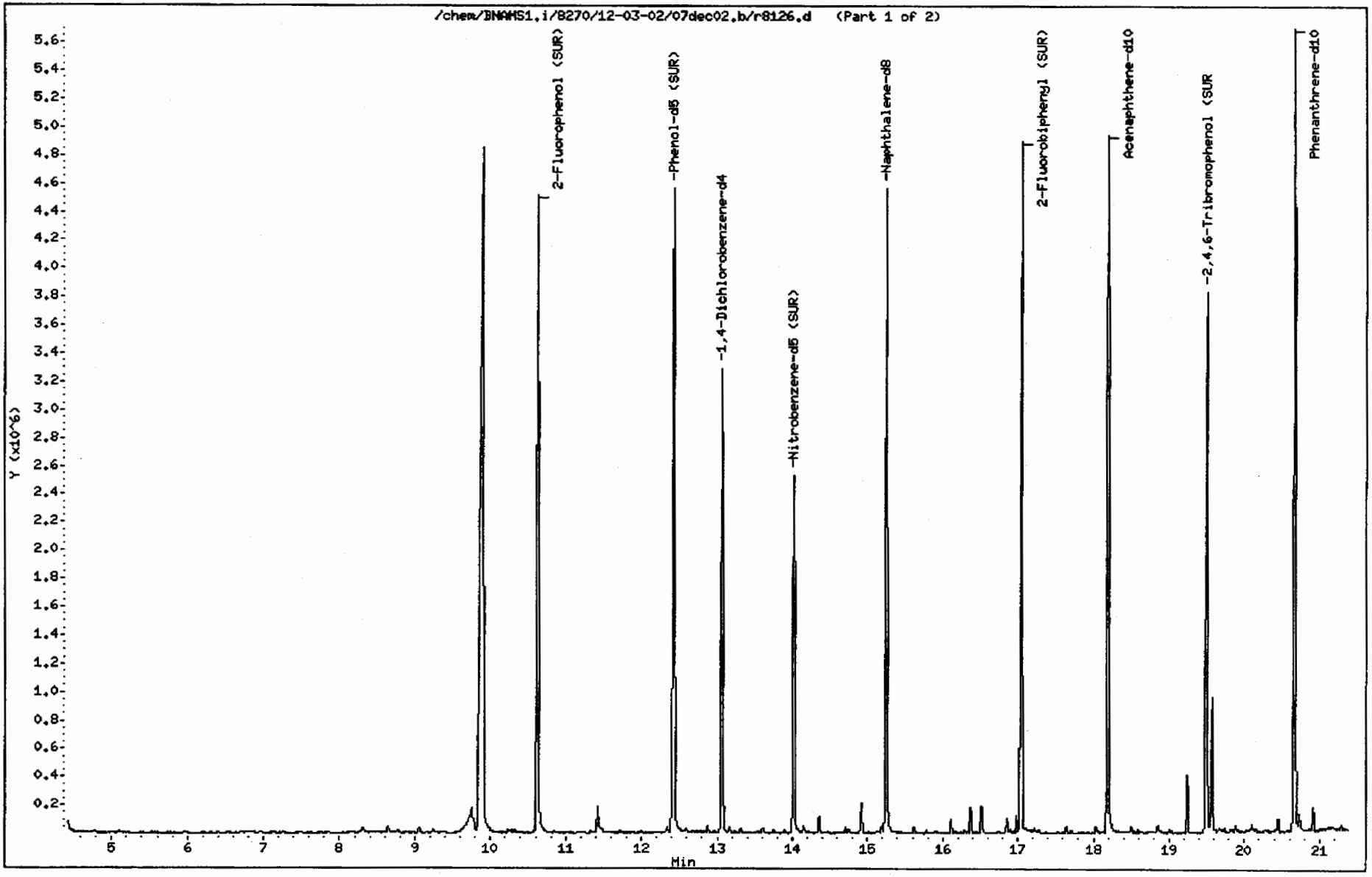
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d
Date : 07-DEC-2002 15:12
Client ID: HA-01-08-0-6
Sample Info: 392313;888262

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



635

STL Edison

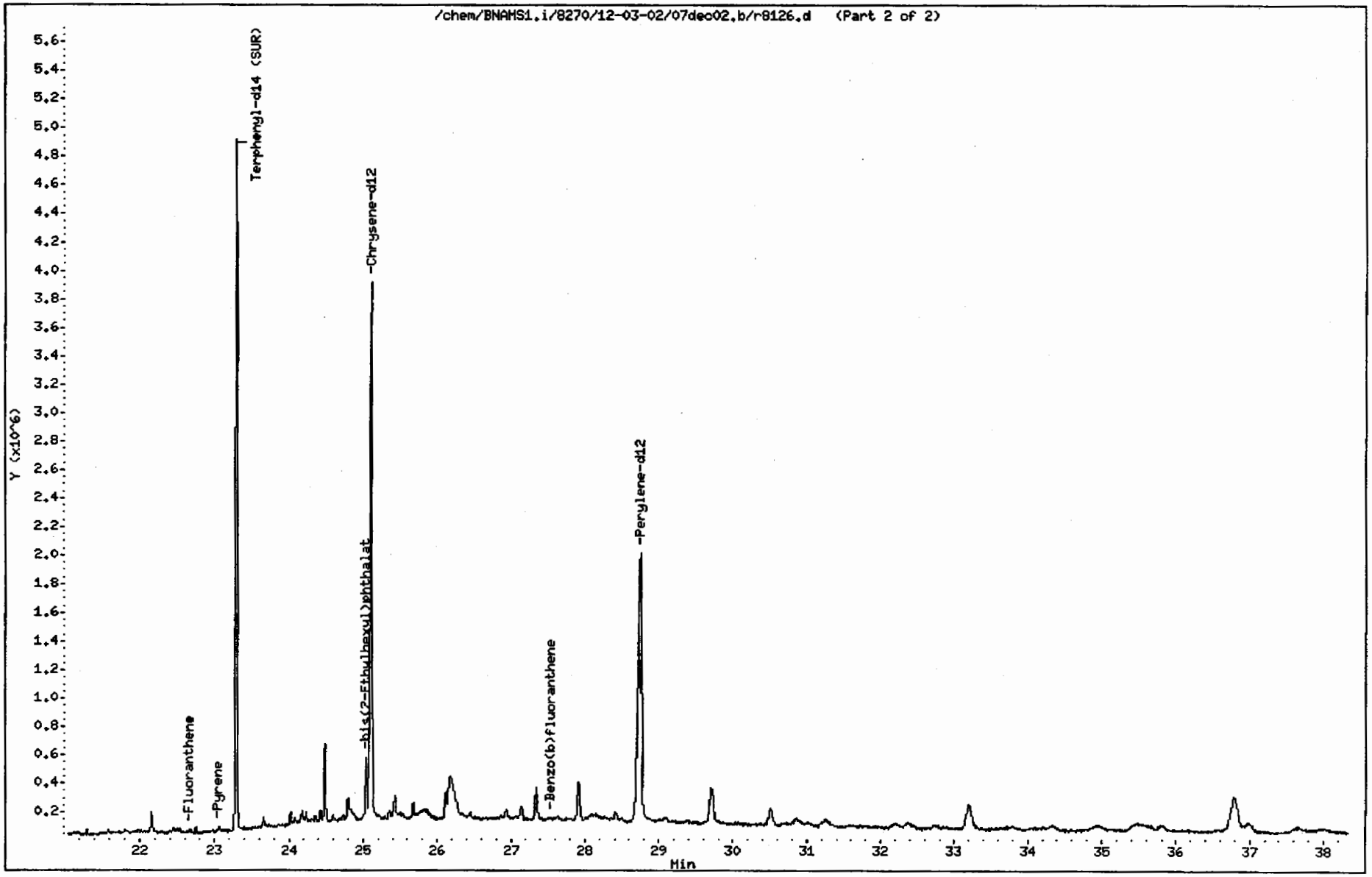
D092

Data File: /chem/BNAHS1.i/8270/12-03-02/07dec02.b/r8126.d
Date : 07-DEC-2002 15:12
Client ID: HA-01-08-0-6
Sample Info: 392313;888262

Column phase: DB-5

Instrument: BNAHS1.i

Operator: BNAHS 4
Column diameter: 0.25



636

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

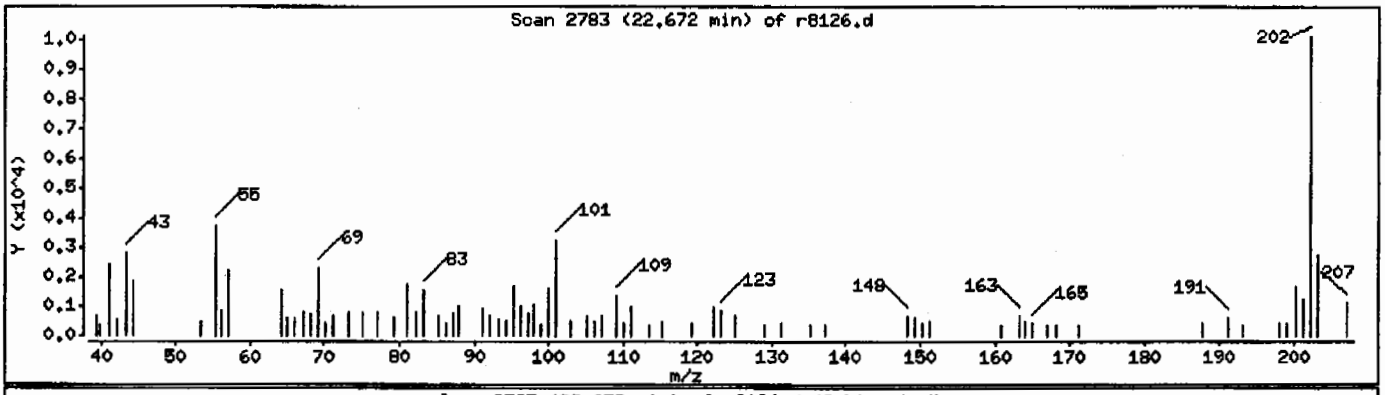
Client ID: HA-01-08-0-6 | Instrument: BNAMS1.i

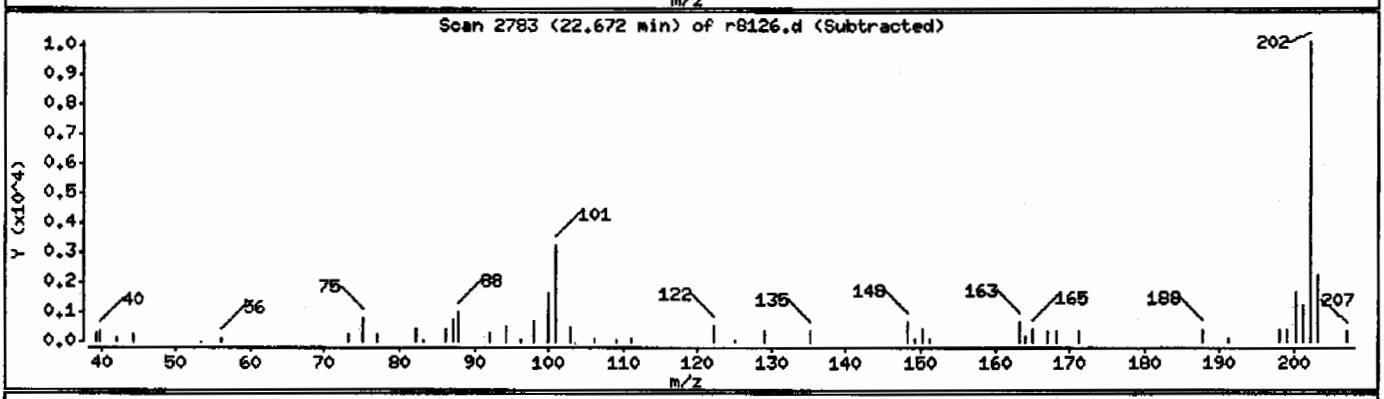
Sample Info: 392313;888262

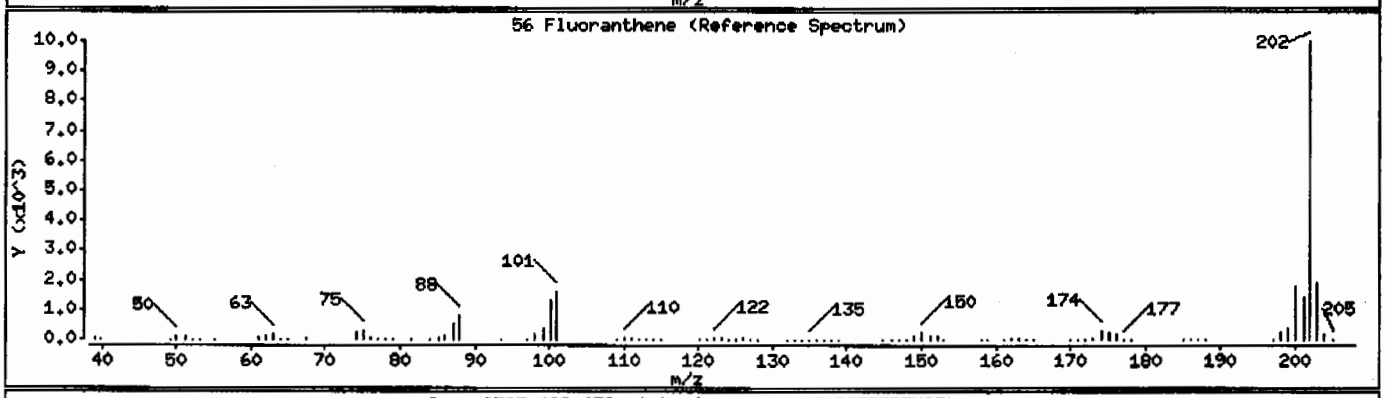
Operator: BNAMS 4

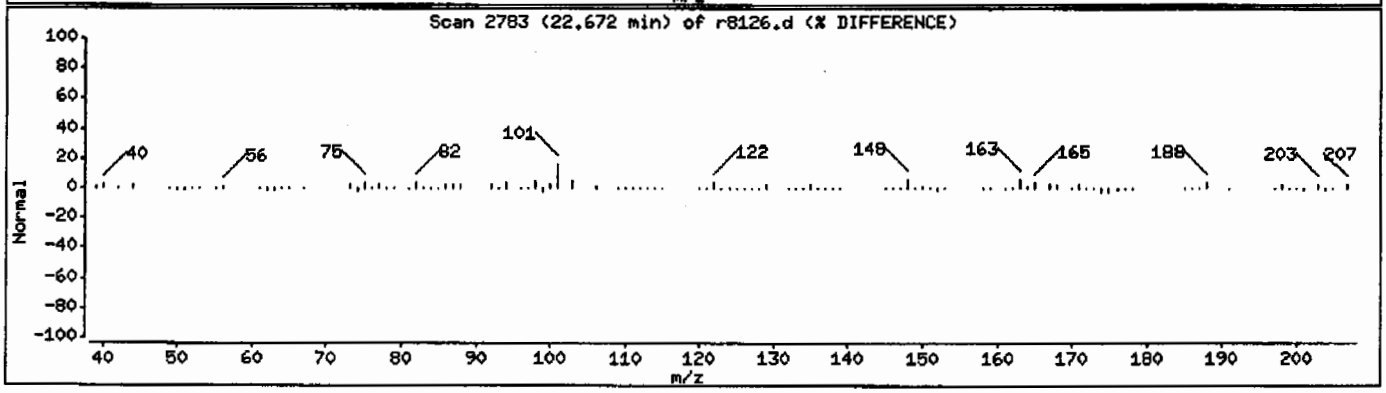
Column phase: DB-5 | Column diameter: 0.25

56 Fluoranthene | Concentration: 11 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

Client ID: HA-01-08-0-6

Instrument: BNAMS1.i

Sample Info: 392313;888262

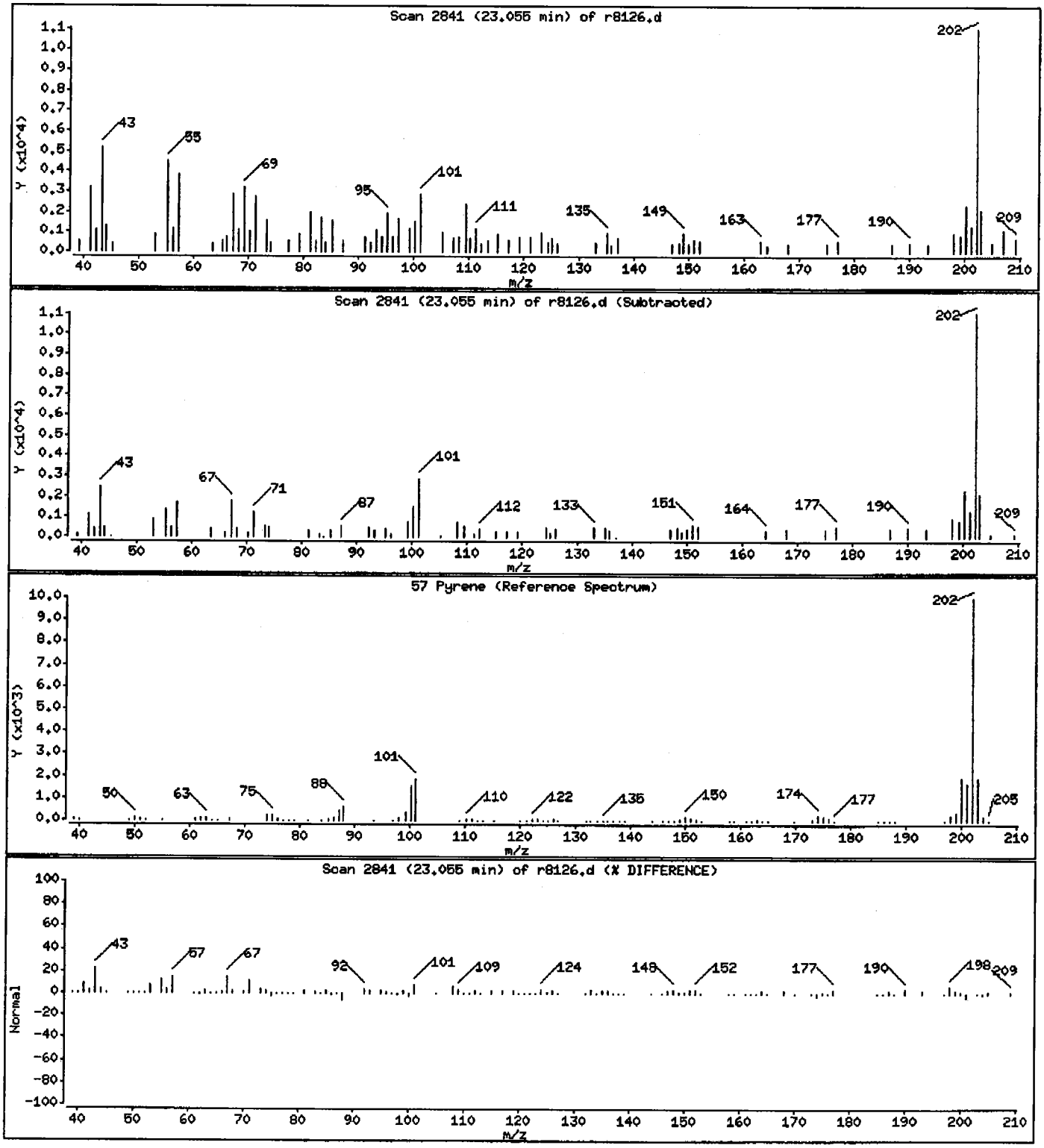
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 13 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

Client ID: HA-01-08-0-6

Instrument: BNAMS1.i

Sample Info: 392313;888262

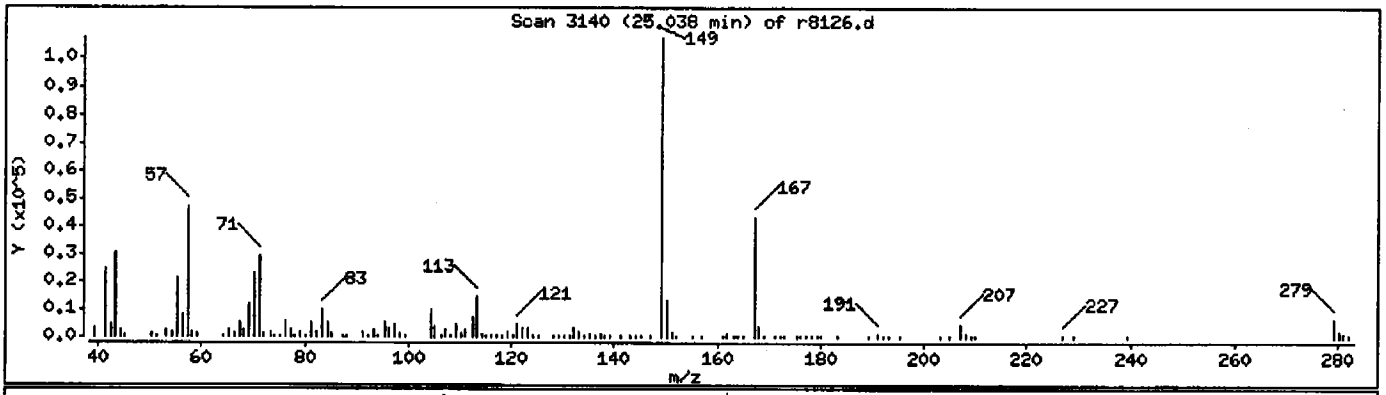
Operator: BNAMS 4

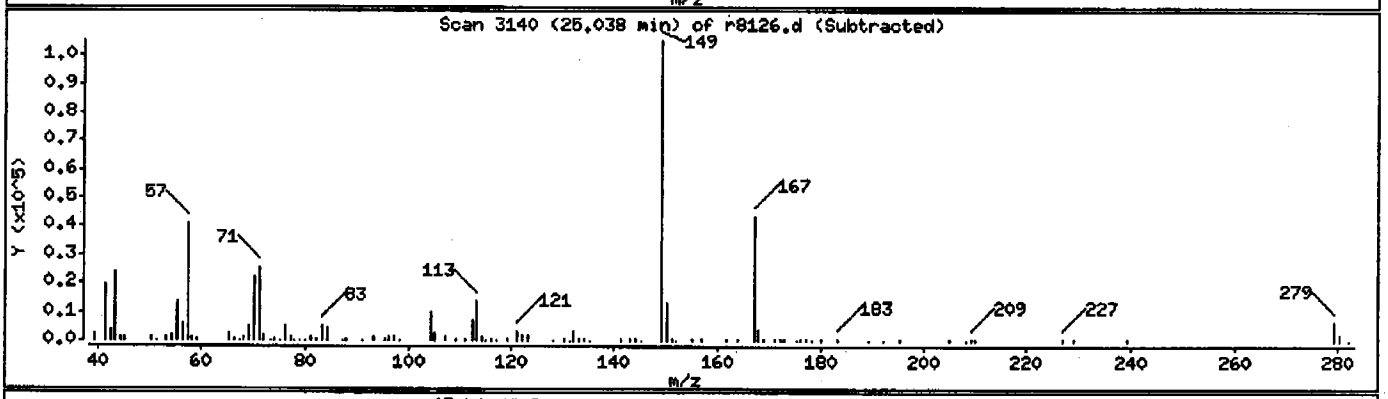
Column phase: DB-5

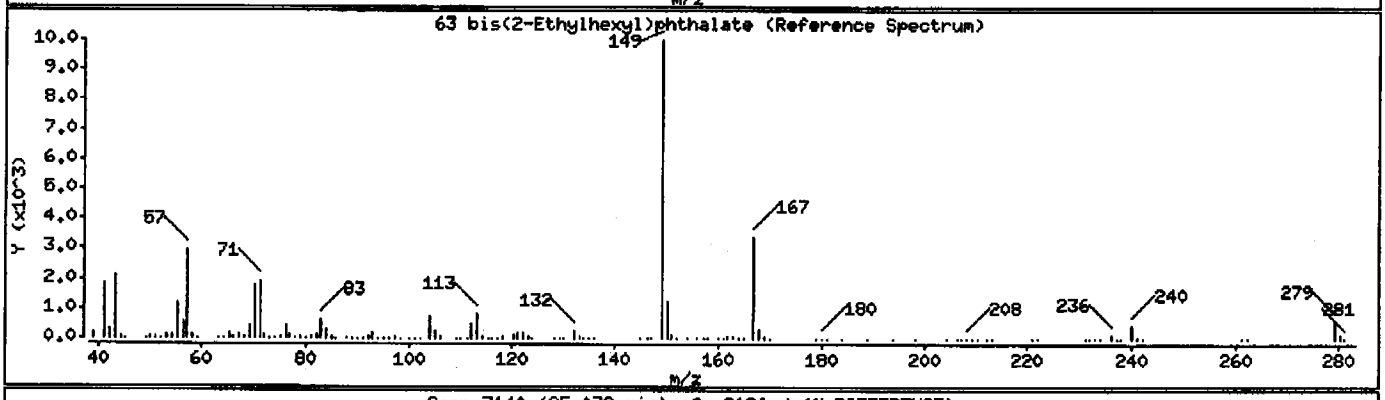
Column diameter: 0.25

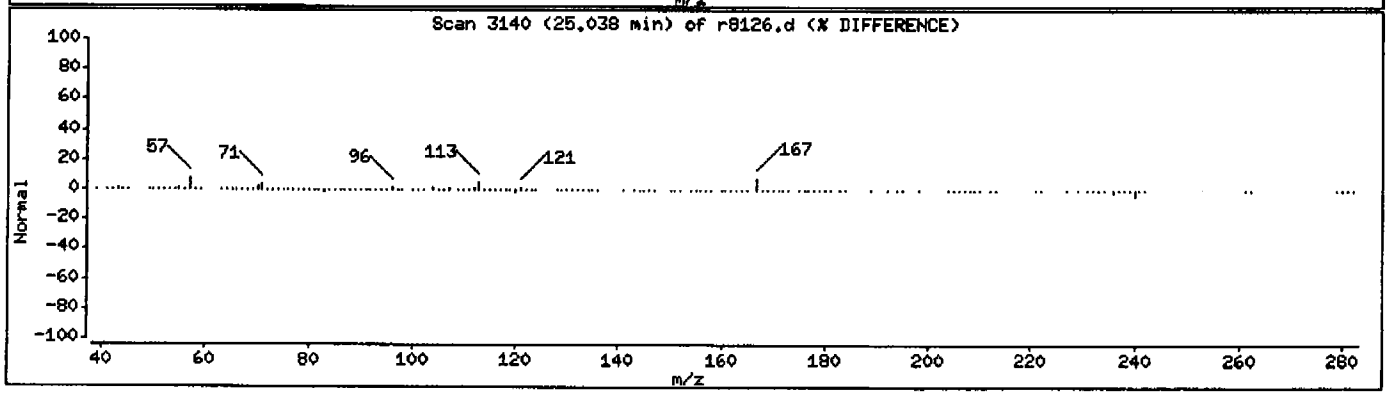
63 bis(2-Ethylhexyl)phthalate

Concentration: 210 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

Client ID: HA-01-08-0-6

Instrument: BNAMS1.i

Sample Info: 392313;888262

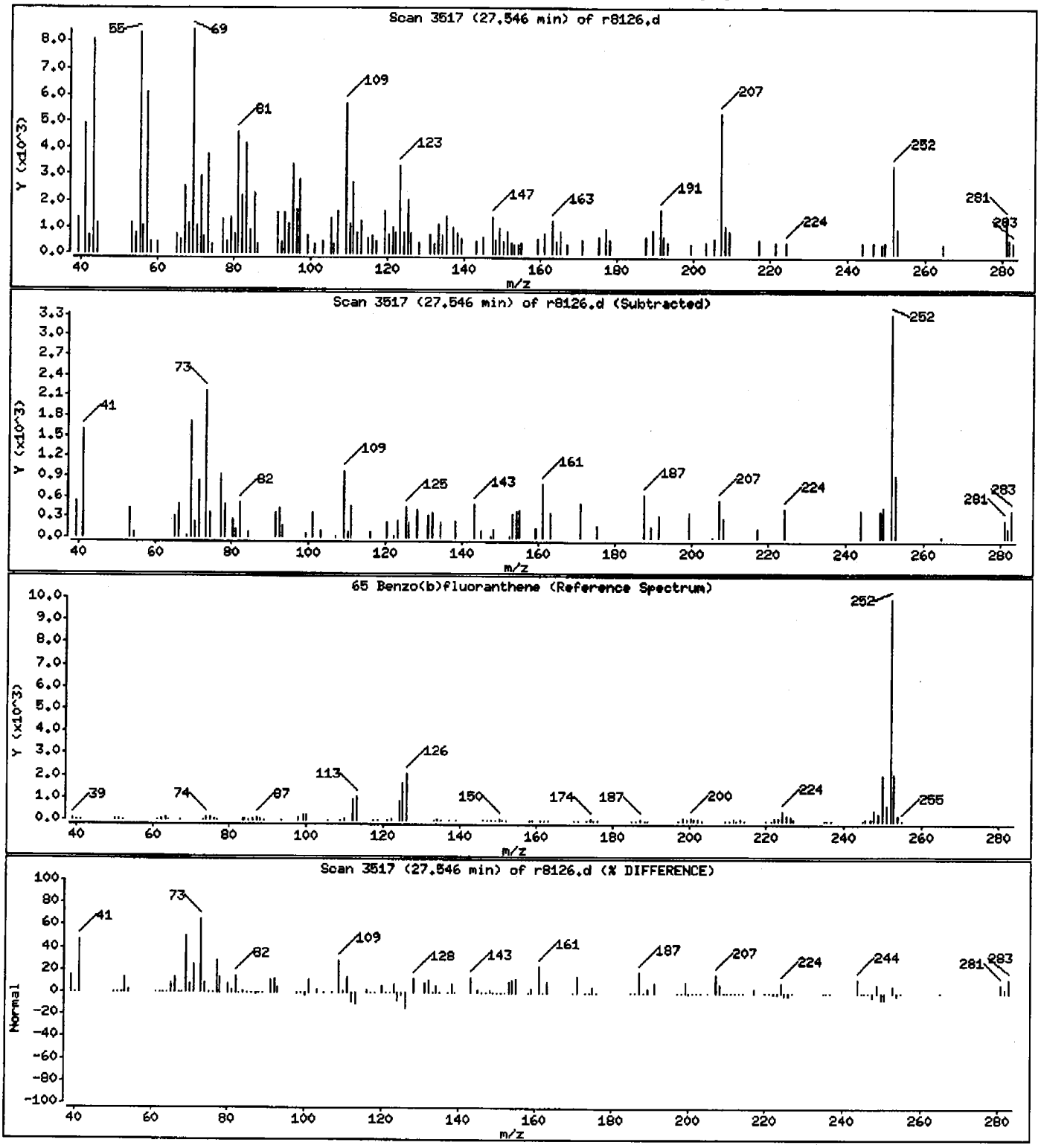
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 12 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

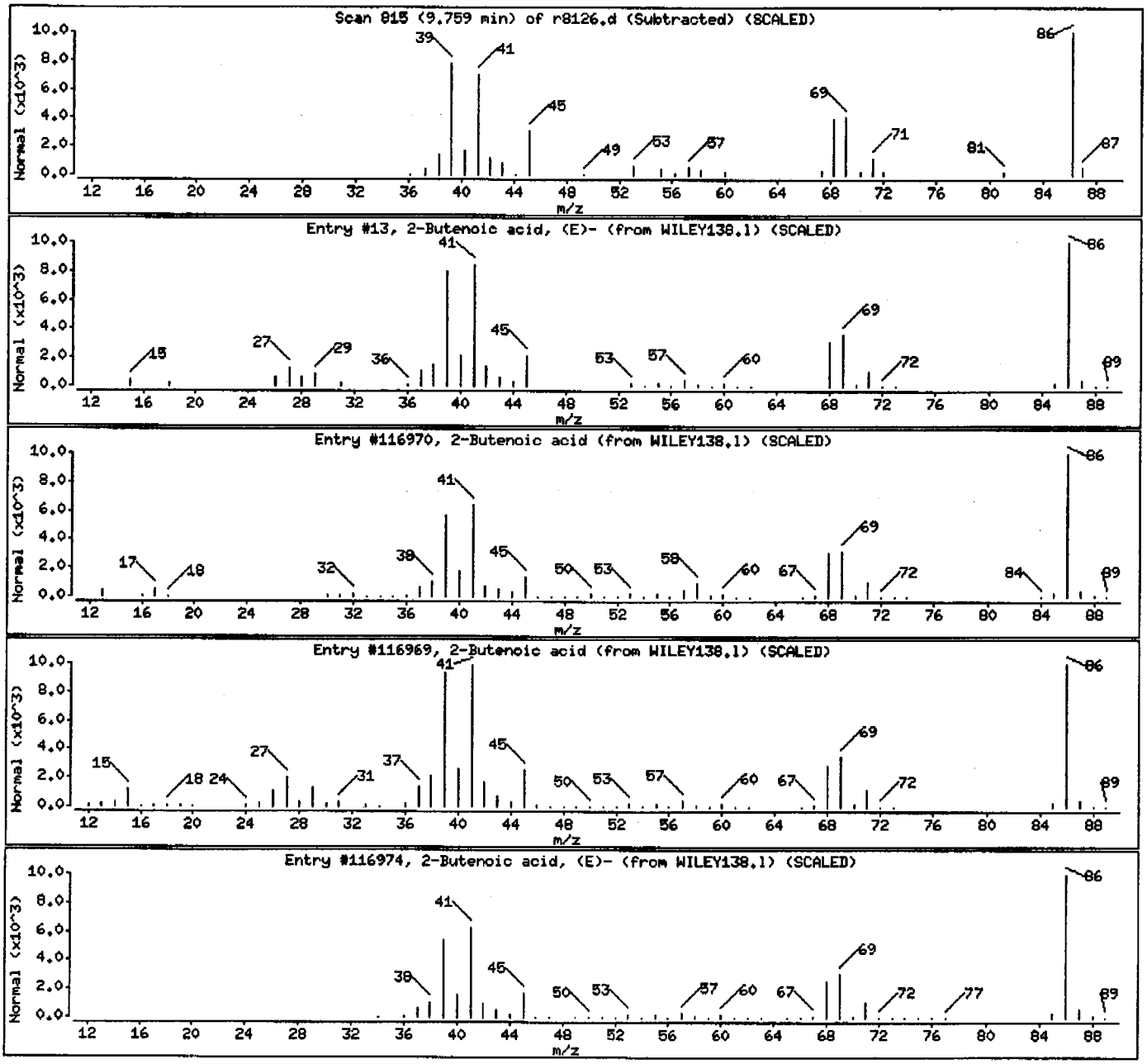
Client ID: HA-01-08-0-6 Instrument: BNAMS1.i

Sample Info: 392313;888262

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Organic Acid						
2-Butenoic acid, (E)-	107-93-7	WILEY138.1	13	91	C4H6O2	86
2-Butenoic acid	3724-65-0	WILEY138.1	116970	91	C4H6O2	86
2-Butenoic acid	3724-65-0	WILEY138.1	116969	91	C4H6O2	86
2-Butenoic acid, (E)-	107-93-7	WILEY138.1	116974	87	C4H6O2	86



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

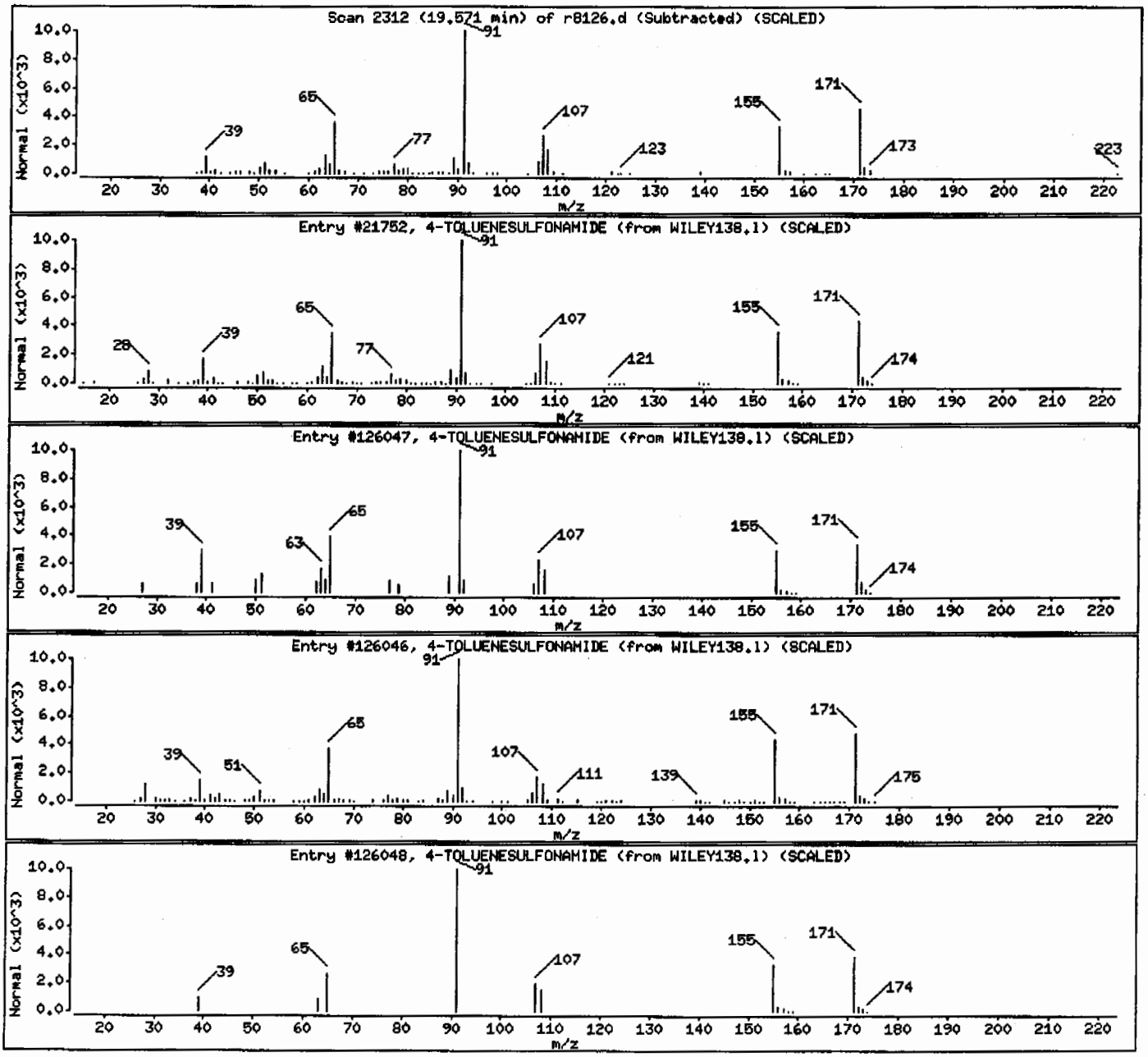
Client ID: HA-01-08-0-6 Instrument: BNAMS1.i

Sample Info: 392313;888262

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4-TOLUENESULFONAMIDE	70-55-3	WILEY138.1	21752	98	C7H9NO2S	171
4-TOLUENESULFONAMIDE	70-55-3	WILEY138.1	126047	94	C7H9NO2S	171
4-TOLUENESULFONAMIDE	70-55-3	WILEY138.1	126046	93	C7H9NO2S	171
4-TOLUENESULFONAMIDE	70-55-3	WILEY138.1	126048	87	C7H9NO2S	171



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

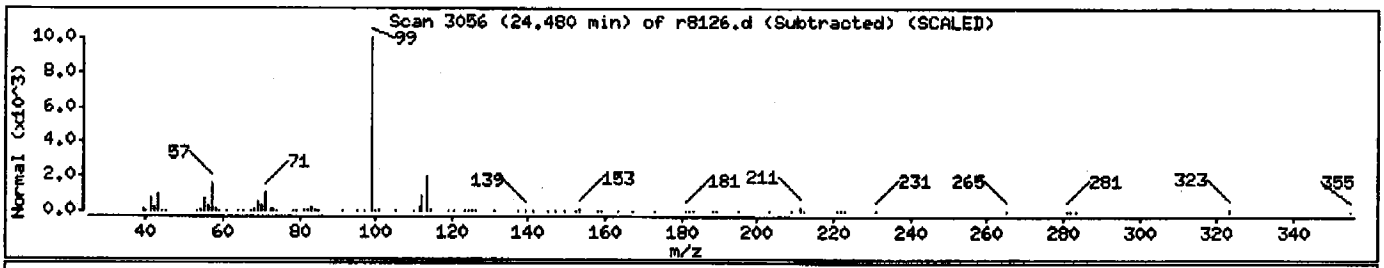
Client ID: HA-01-08-0-6 Instrument: BNAMS1.i

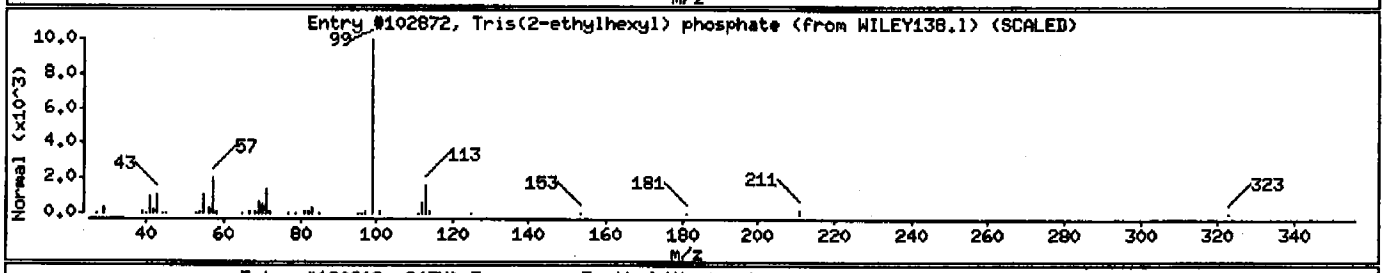
Sample Info: 392313;888262

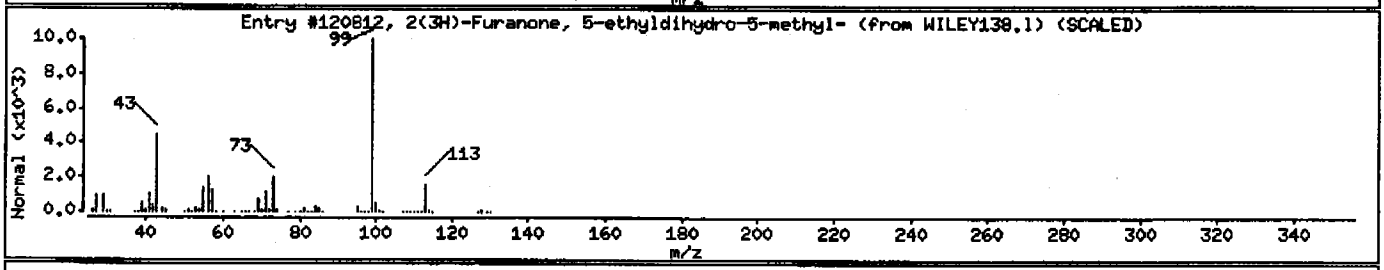
Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tris(2-ethylhexyl) phosphate	78-42-2	WILEY138.1	102872	80	C24H5104P	434
2(3H)-Furanone, 5-ethyldihydro-5-methyl-	2865-82-9	WILEY138.1	120812	43	C7H12O2	128







Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

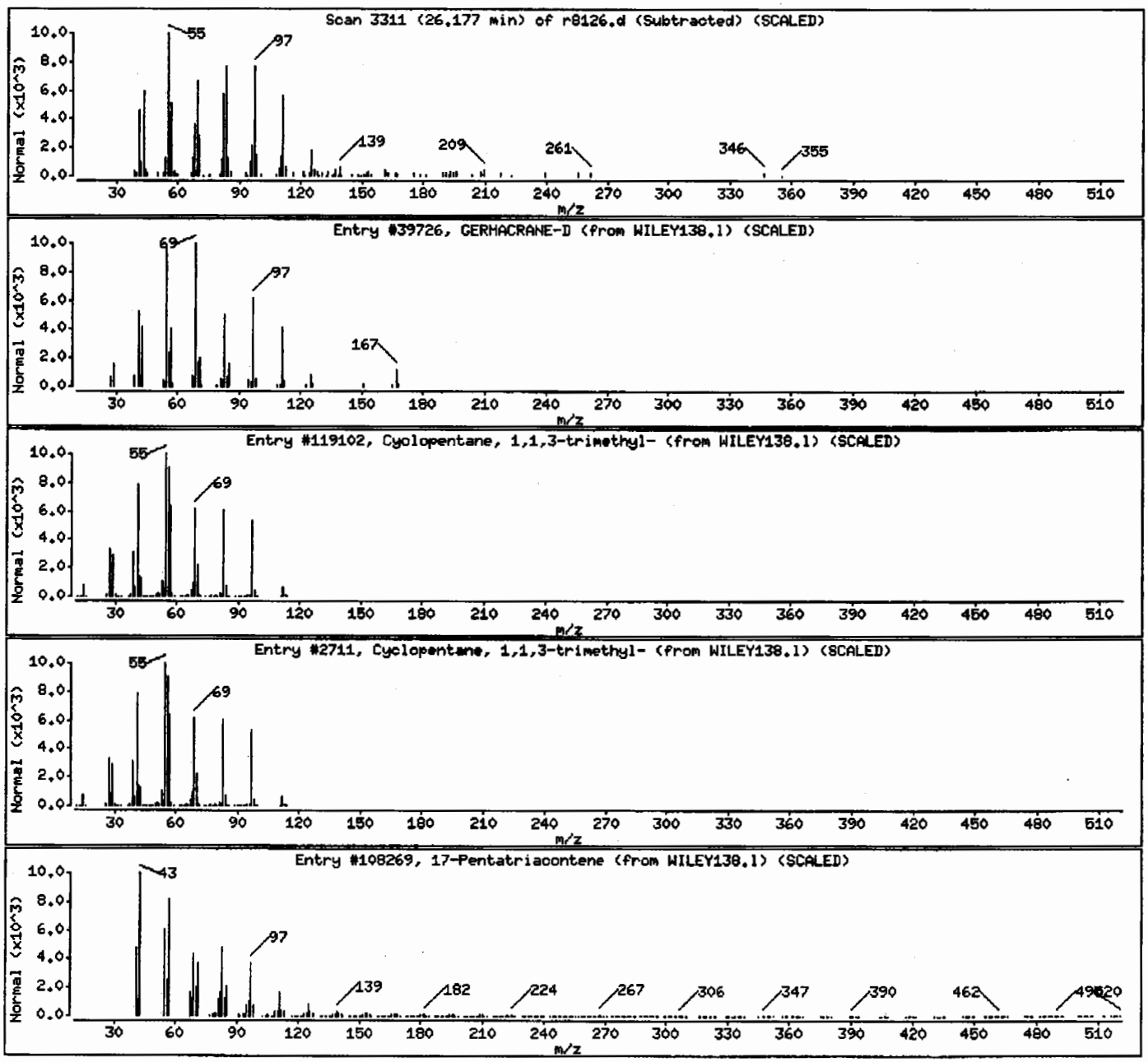
Client ID: HA-01-08-0-6 Instrument: BNAMS1.i

Sample Info: 392313:888262

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
GERMACRANE-D	0-00-0	WILEY138.1	39726	53	C15H30	210
Cyclopentane, 1,1,3-trimethyl-	4516-69-2	WILEY138.1	119102	38	C8H16	112
Cyclopentane, 1,1,3-trimethyl-	4516-69-2	WILEY138.1	2711	38	C8H16	112
17-Pentatriacontene	6971-40-0	WILEY138.1	108269	35	C35H70	491



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

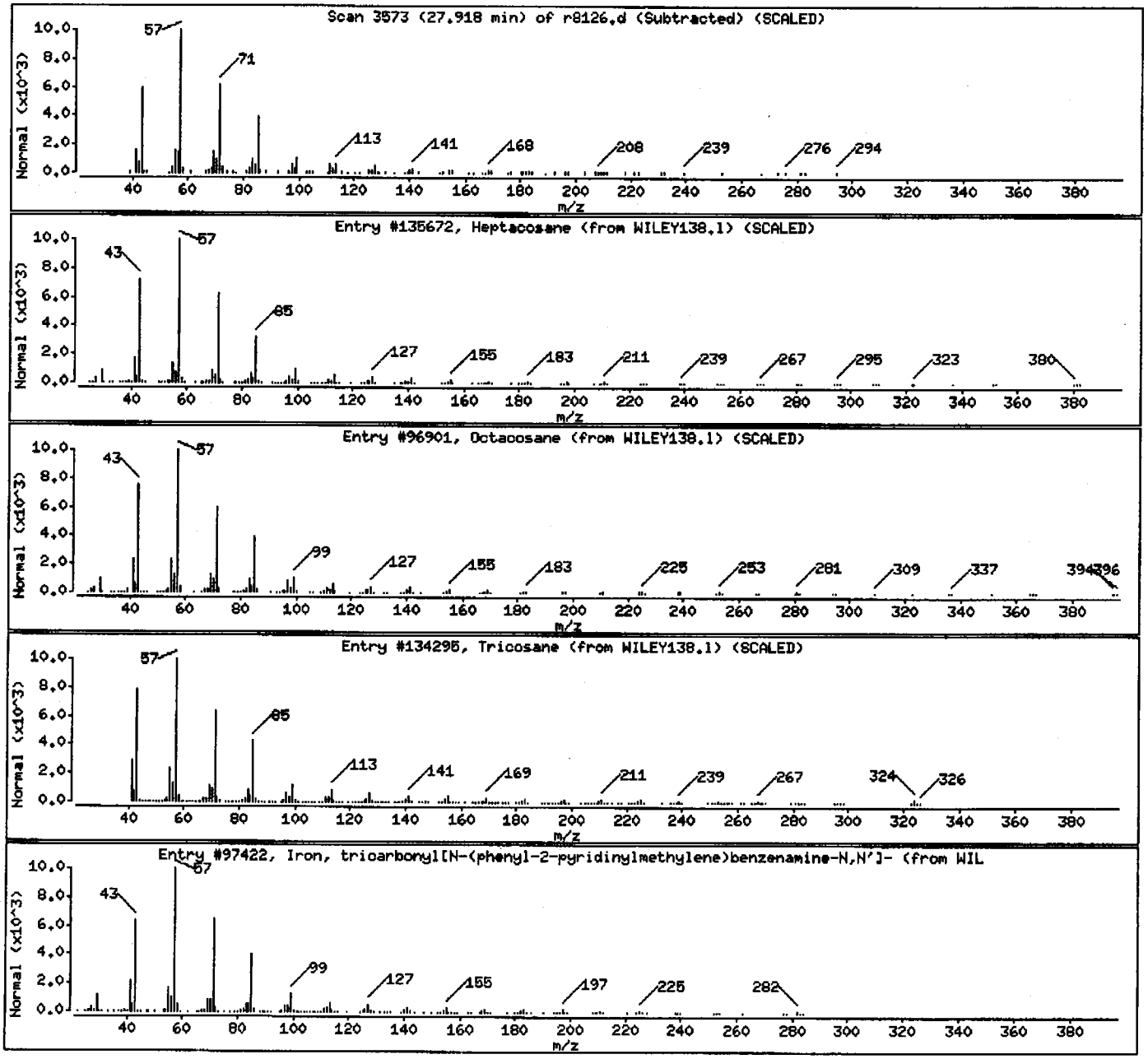
Client ID: HA-01-08-0-6 Instrument: BNAMS1.i

Sample Info: 392313;888262

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heptacosane	593-49-7	WILEY138.1	135672	91	C27H56	380
Octacosane	630-02-4	WILEY138.1	96901	90	C28H58	394
Tricosane	638-67-5	WILEY138.1	134295	87	C23H48	324
Iron, tricarbonyl[N-(phenyl-2-pyridinylm	74764-11-7	WILEY138.1	97422	87	C21H14FeN2O3	398



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

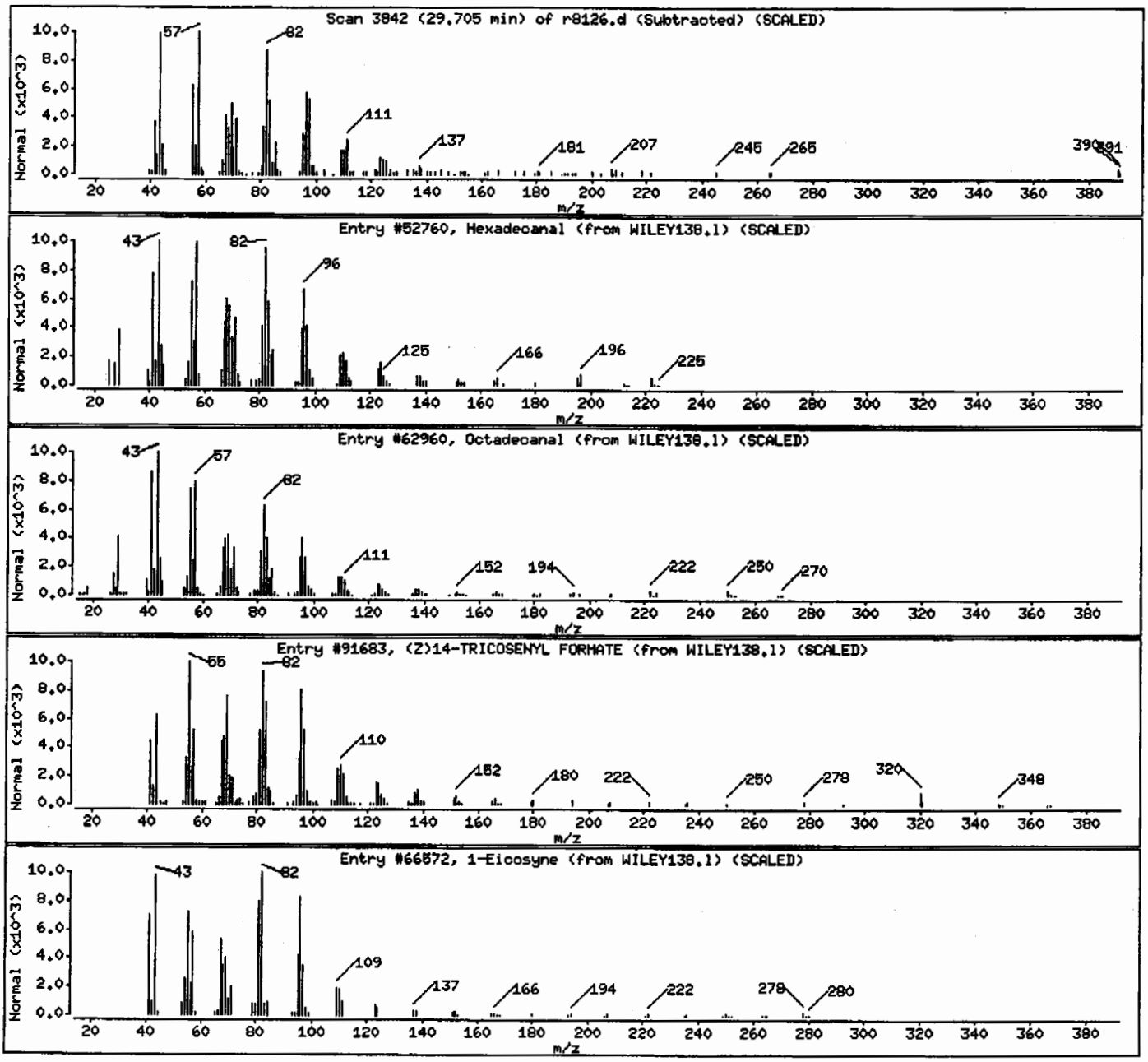
Client ID: HA-01-08-0-6 Instrument: BNAMS1.i

Sample Info: 392313;888262

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Hexadecanal	629-80-1	WILEY138.1	52760	78	C16H32O	240
Octadecanal	638-66-4	WILEY138.1	62960	72	C18H36O	268
(Z)14-TRICOSENYL FORMATE	77899-10-6	WILEY138.1	91683	64	C24H46O2	366
1-Eicosyne	765-27-5	WILEY138.1	66572	49	C20H38	278



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

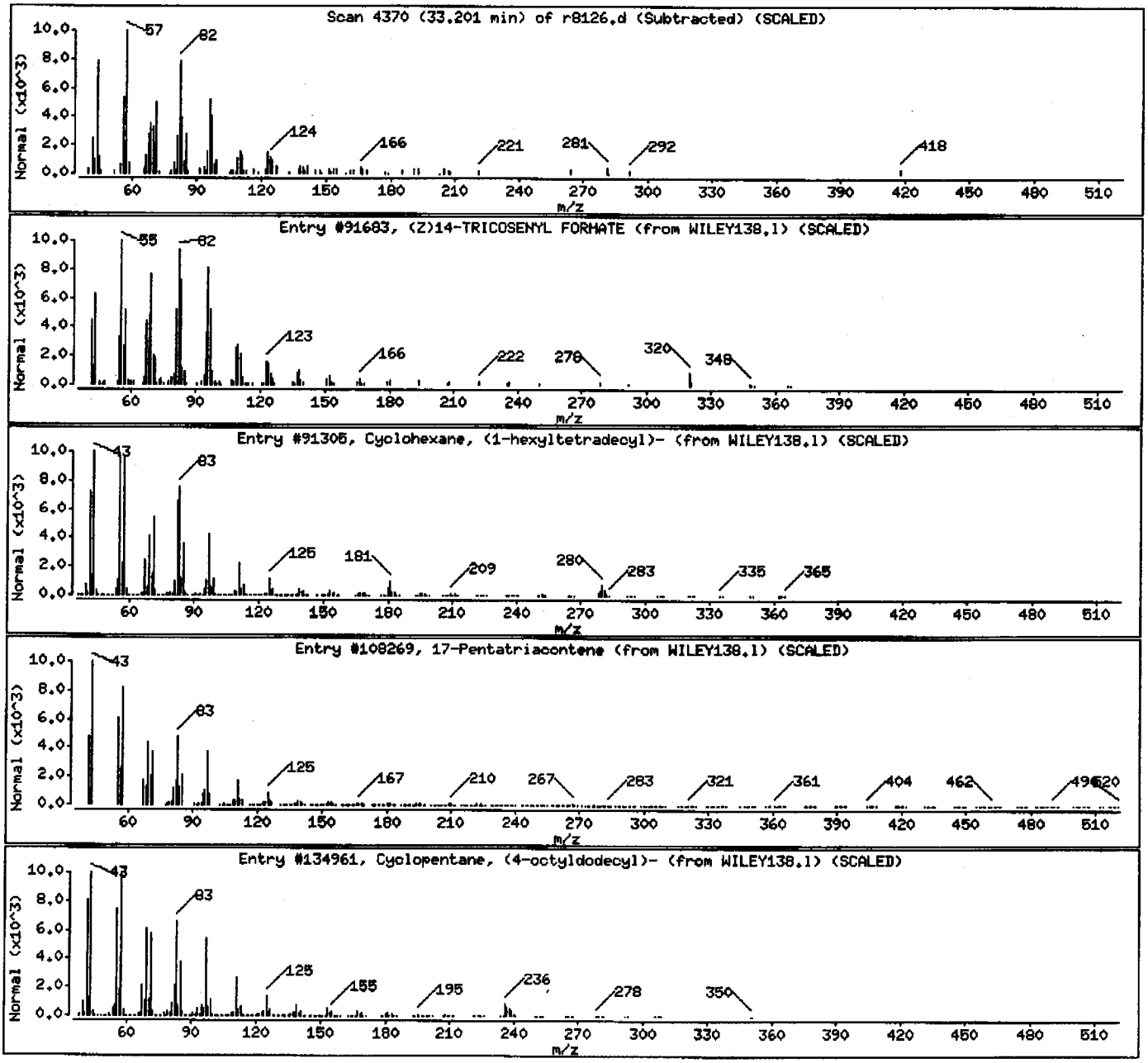
Client ID: HA-01-08-0-6 Instrument: BNAMS1.i

Sample Info: 392313;888262

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
(Z)14-TRICOSENYL FORMATE	77899-10-6	WILEY138.1	91683	38	C24H46O2	366
Cyclohexane, (1-hexyltetradecyl)-	4443-60-1	WILEY138.1	91305	35	C26H52	364
17-Pentatriacontene	6971-40-0	WILEY138.1	108269	35	C35H70	491
Cyclopentane, (4-octyldodecyl)-	5638-09-5	WILEY138.1	134961	35	C25H50	350



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8126.d

Date : 07-DEC-2002 15:12

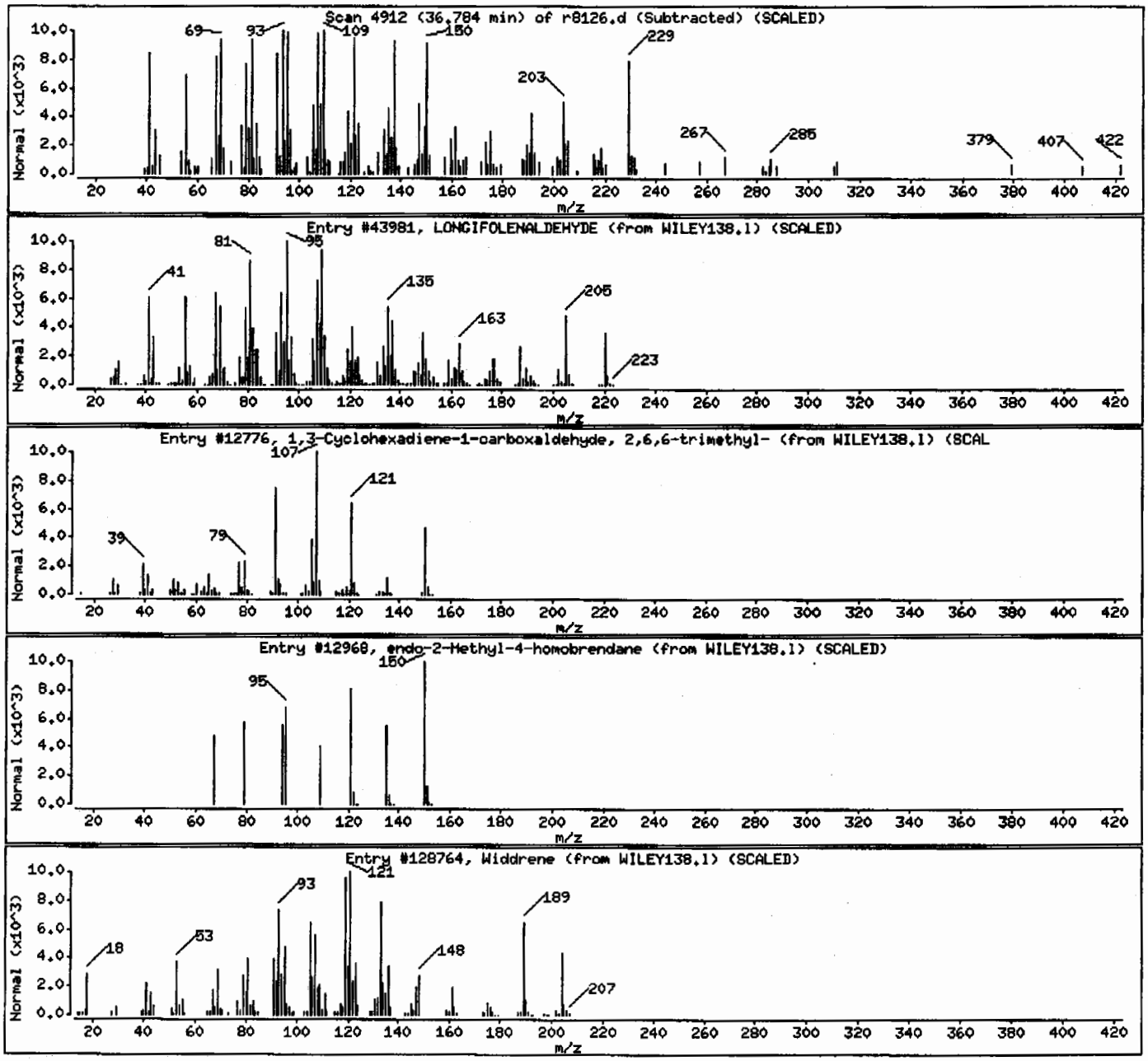
Client ID: HA-01-08-0-6 Instrument: BNAMS1.i

Sample Info: 392313;888262

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
LONGIFOLENALDEHYDE	19990-84-7	WILEY138.1	43981	47	C15H24O	220
1,3-Cyclohexadiene-1-carboxaldehyde, 2,6	116-26-7	WILEY138.1	12776	38	C10H14O	150
endo-2-Methyl-4-homobrendane	66085-46-9	WILEY138.1	12968	38	C11H18	150
Widdrene	470-40-6	WILEY138.1	128764	38	C15H24	204



Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8121.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8121.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	ND	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	ND	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	11 J	380
Anthracene	ND	380

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8121.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	380
Di-n-butylphthalate	ND	380
Fluoranthene	23 J	380
Pyrene	23 J	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	ND	38
Chrysene	ND	380
bis(2-Ethylhexyl)phthalate	130 J	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	19 J	38
Benzo(k)fluoranthene	ND	38
Benzo(a)pyrene	14 J	38
Indeno(1,2,3-cd)pyrene	16 J	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	18 J	380

Client ID: **HA-01-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392314**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8121.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12.4

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d
Report Date: 08-Dec-2002 07:02

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d
Lab Smp Id: 392314 Client Smp ID: HA-01-07-0-6
Inj Date : 07-DEC-2002 11:19
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392314;888297
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/8270c1.m
Meth Date : 07-Dec-2002 07:19 wahied Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	12.40000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.624	10.594	(0.813)	2659057	75.4821	5700
$ 17 Phenol-d5 (SUR)	99	12.425	12.418	(0.951)	3067419	77.9828	5900
* 79 1,4-Dichlorobenzene-d4	152	13.060	13.062	(1.000)	741128	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.017	14.022	(0.920)	1237771	41.9762	3200
* 80 Naphthalene-d8	136	15.241	15.246	(1.000)	3021161	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.043	17.044	(0.937)	2409942	41.7861	3200
* 82 Acenaphthene-d10	164	18.185	18.185	(1.000)	1772487	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.494	19.493	(1.072)	676668	73.6929	5600
* 83 Phenanthrene-d10	188	20.661	20.661	(1.000)	3211234	40.0000	
52 Phenanthrene	178	20.694	20.708	(1.002)	11171	0.14500	11(a)
56 Fluoranthene	202	22.671	22.681	(1.097)	25678	0.30629	23(a)
57 Pyrene	202	23.044	23.064	(0.918)	25095	0.30826	23(a)
$ 78 Terphenyl-d14 (SUR)	244	23.284	23.282	(0.928)	2067829	40.5634	3100
63 bis(2-Ethylhexyl)phthalate	149	25.035	25.041	(0.998)	92849	1.74183	130(a)

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d
Report Date: 08-Dec-2002 07:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 81 Chrysene-d12	240	25.096	25.108	(1.000)	2374619	40.0000	
65 Benzo(b)fluoranthene	252	27.526	27.564	(0.958)	16279	0.24934	19(aH)
67 Benzo(a)pyrene	252	28.510	28.559	(0.992)	11416	0.19116	14(a)
* 84 Perylene-d12	264	28.738	28.738	(1.000)	2304417	40.0000	
68 Indeno(1,2,3-cd)pyrene	276	32.957	33.058	(1.147)	13431	0.20988	16(aM)
70 Benzo(g,h,i)perylene	276	34.276	34.441	(1.193)	15283	0.23224	18(aM)

QC Flag Legend

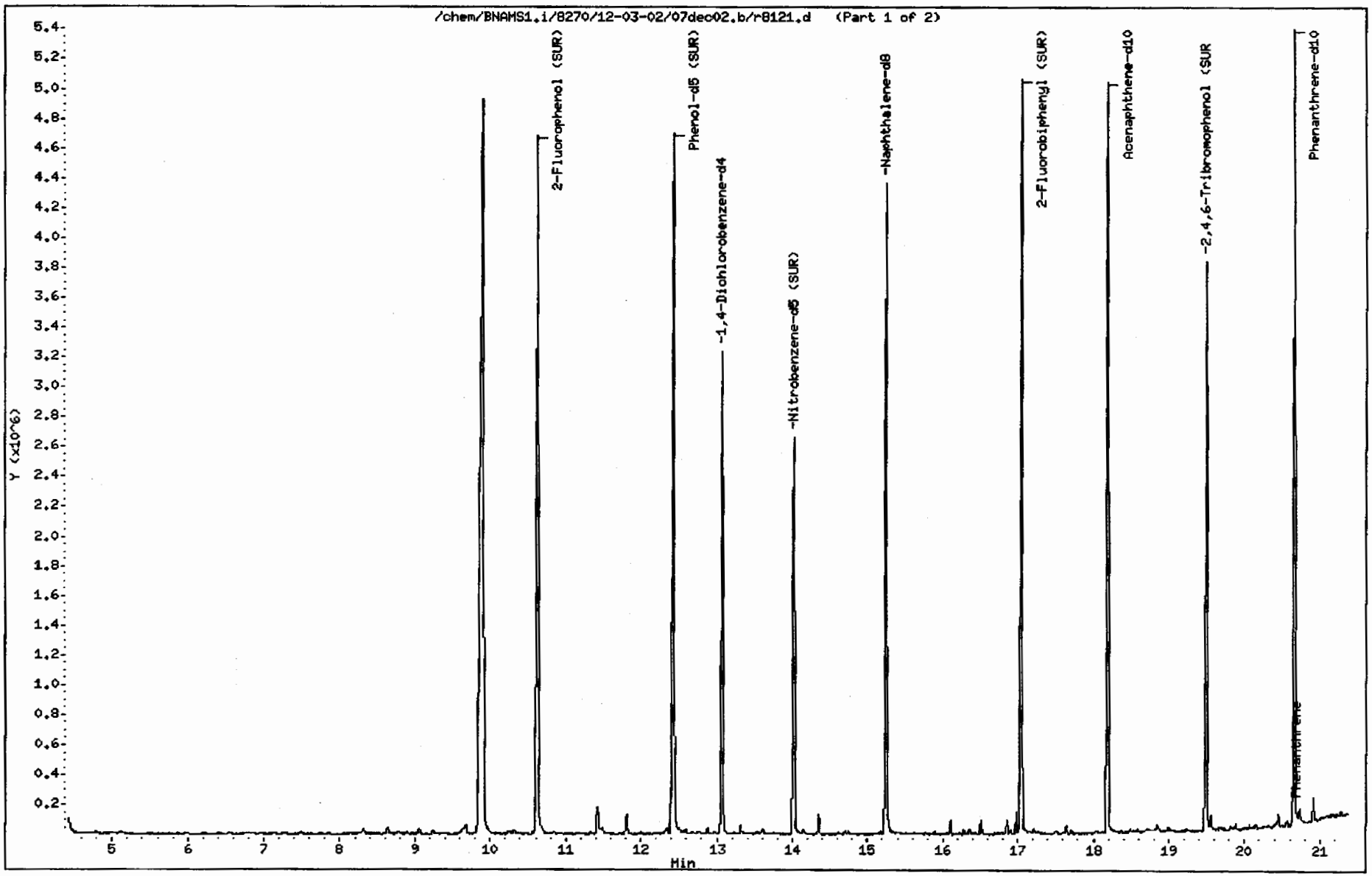
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d
Date : 07-DEC-2002 11:19
Client ID: HA-01-07-0-6
Sample Info: 392314;888297

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



655

STL Edison

D092

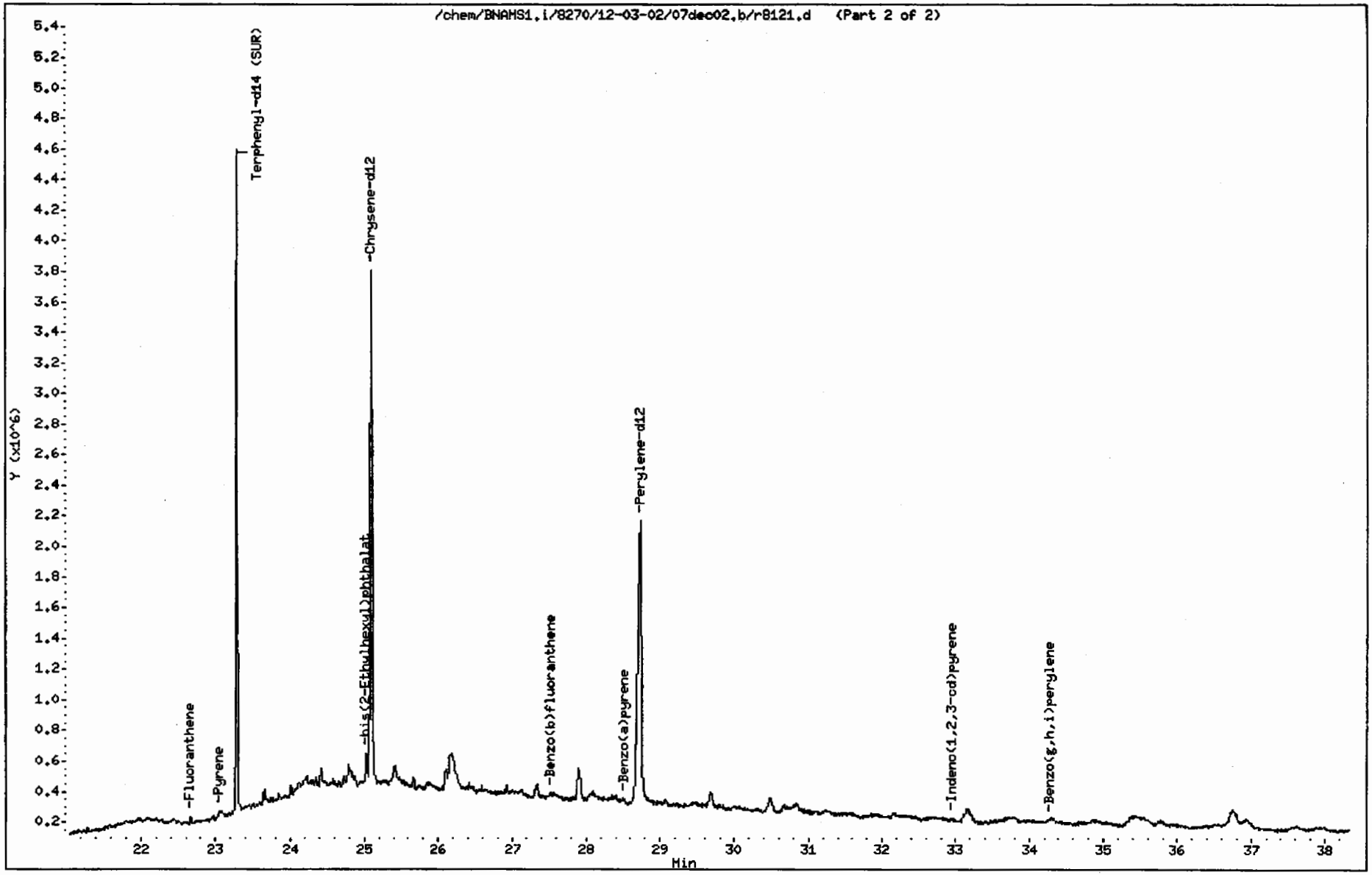
Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d
Date : 07-DEC-2002 11:19
Client ID: HA-01-07-0-6
Sample Info: 392314;888297

Instrument: BNAMS1.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25



656

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d

Date : 07-DEC-2002 11:19

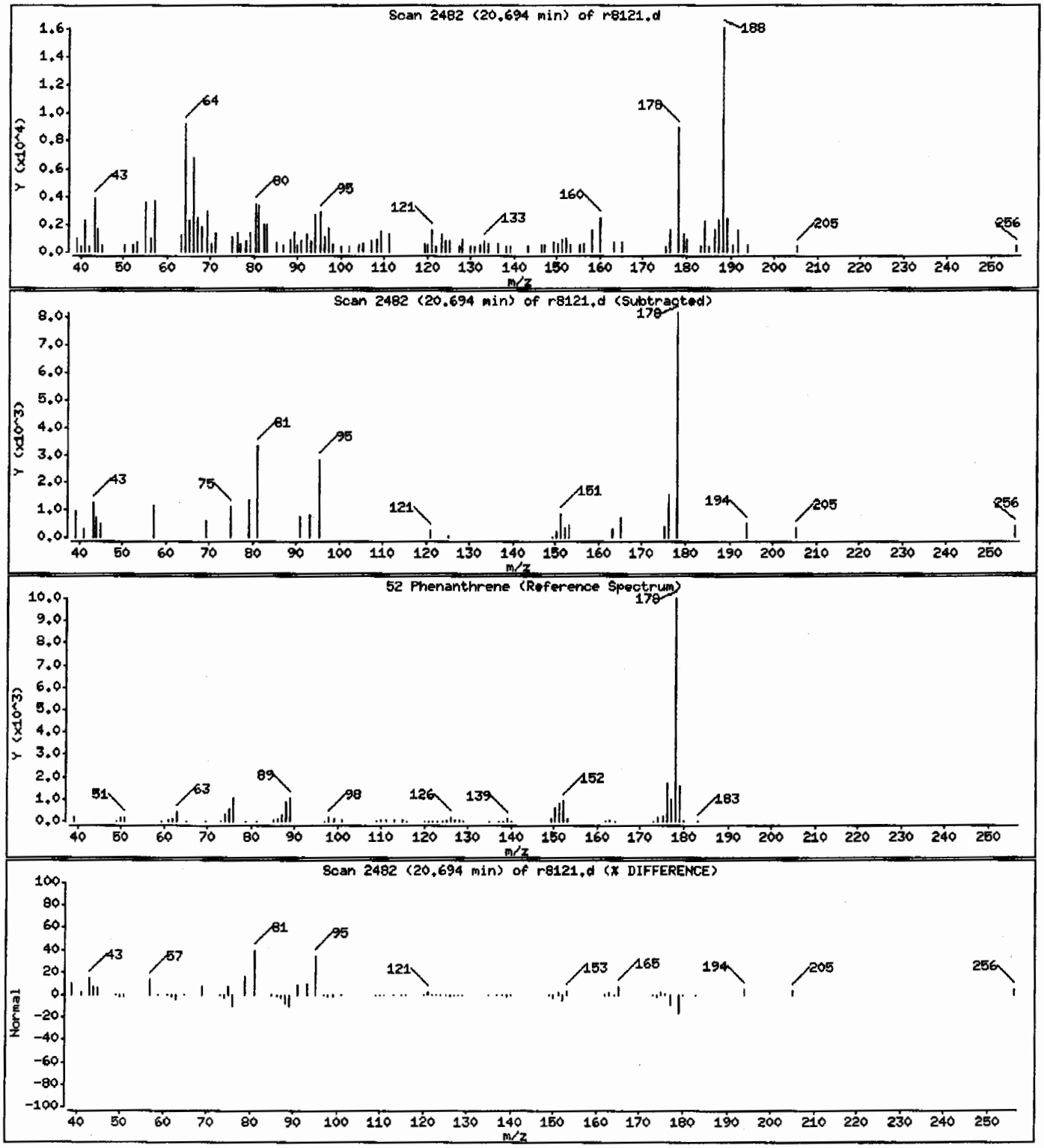
Client ID: HA-01-07-0-6 Instrument: BNAMS1.i

Sample Info: 392314;888297

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

52 Phenanthrene Concentration: 11 ug/Kg



Data File: /ohem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d

Date : 07-DEC-2002 11:19

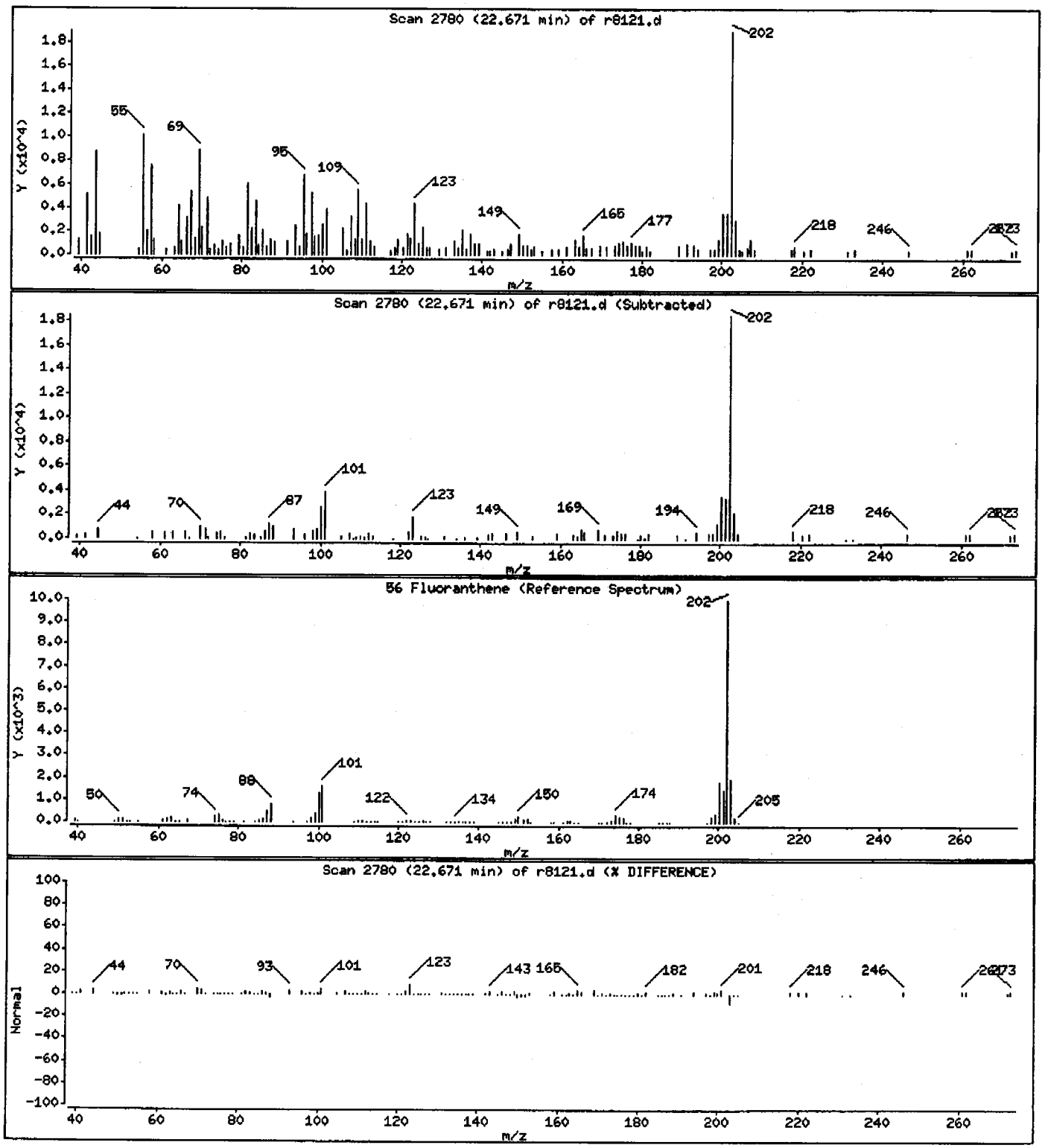
Client ID: HA-01-07-0-6 Instrument: BNAMS1.i

Sample Info: 392314;888297

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

56 Fluoranthene Concentration: 23 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d

Date : 07-DEC-2002 11:19

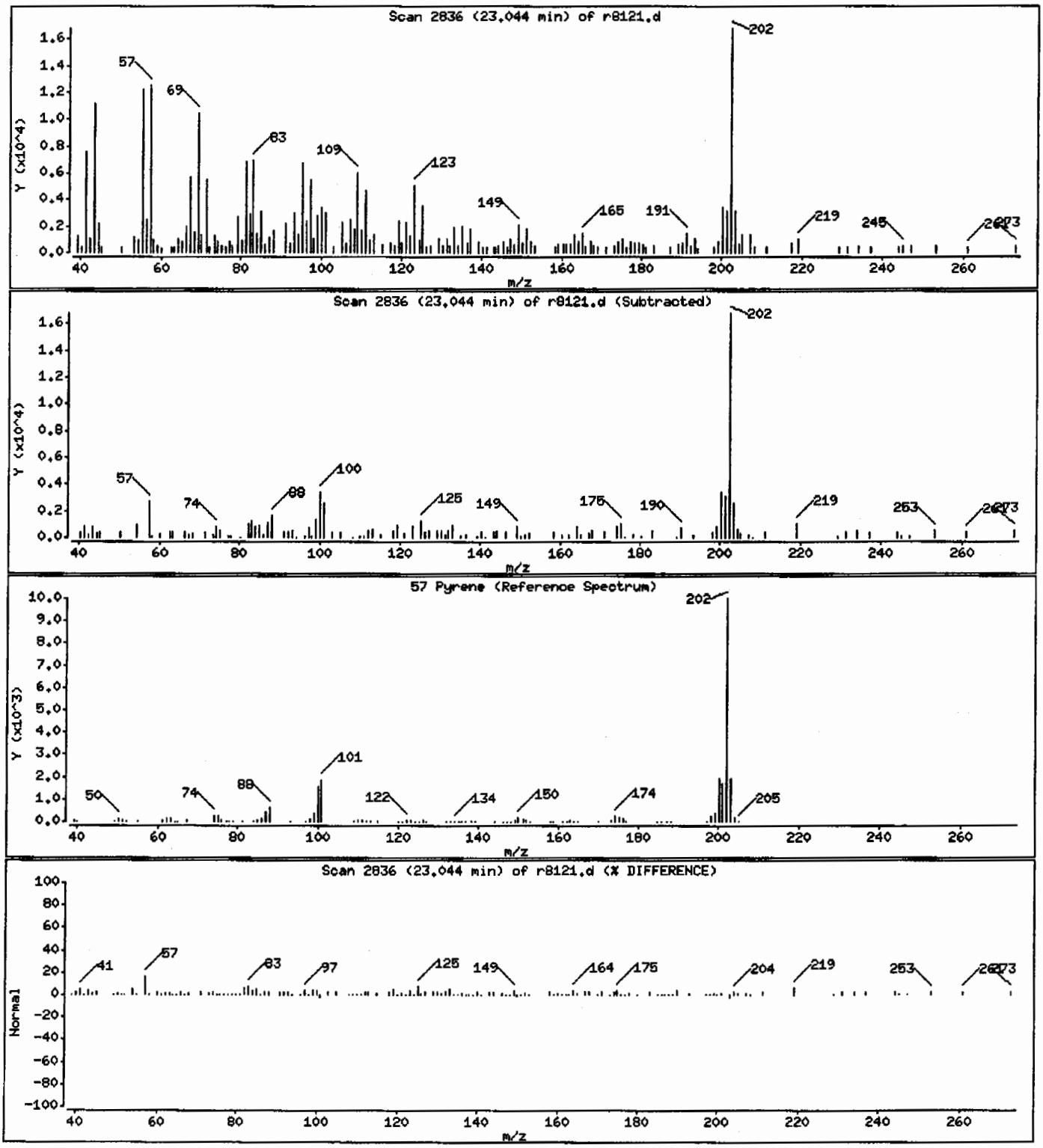
Client ID: HA-01-07-0-6 Instrument: BNAMS1.i

Sample Info: 392314:888297

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

57 Pyrene Concentration: 23 ug/Kg



Data File: /ohem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d

Date : 07-DEC-2002 11:19

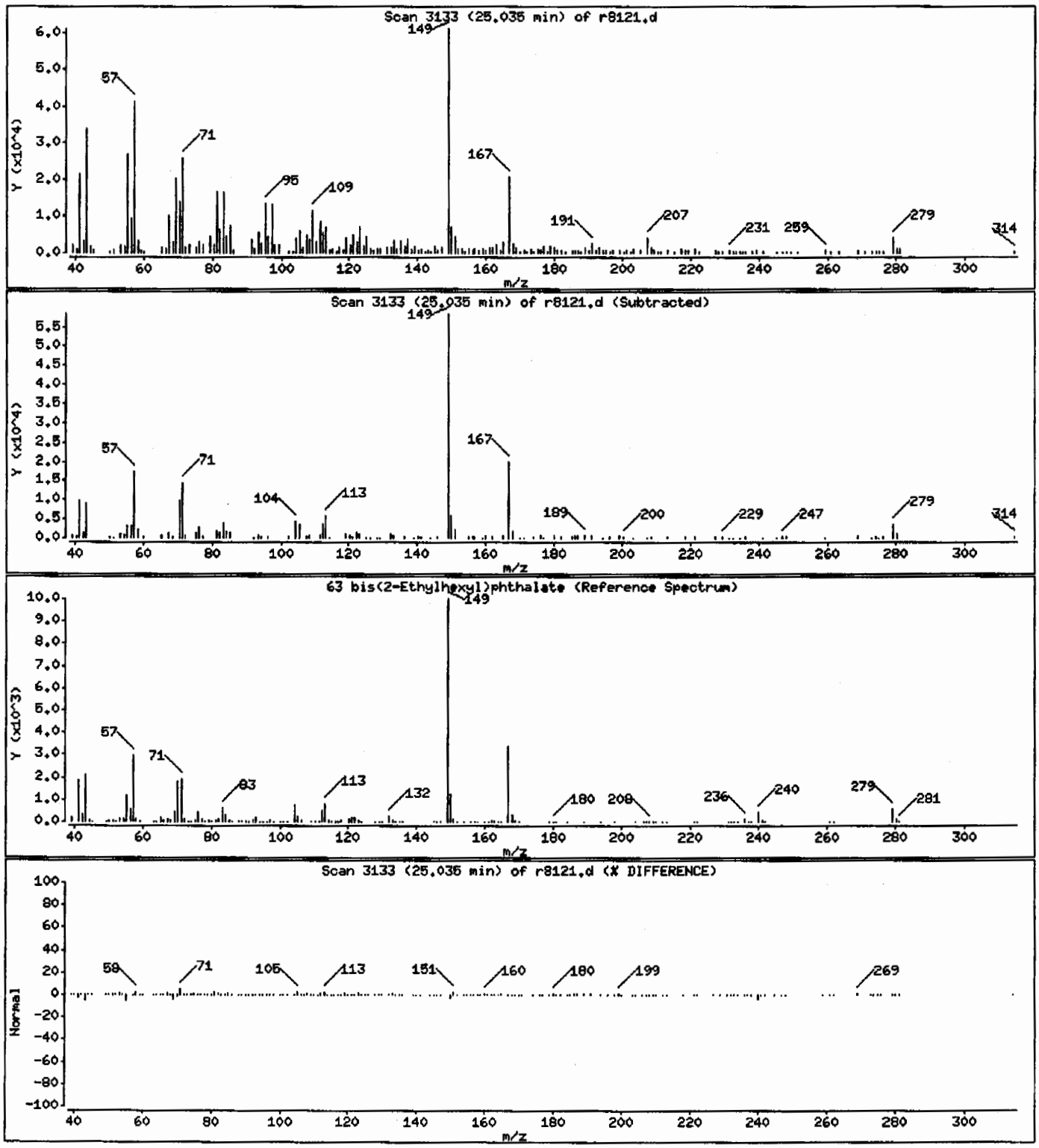
Client ID: HA-01-07-0-6 Instrument: BNAMS1.i

Sample Info: 392314;888297

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

63 bis(2-Ethylhexyl)phthalate Concentration: 130 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d

Date : 07-DEC-2002 11:19

Client ID: HA-01-07-0-6

Instrument: BNAMS1.i

Sample Info: 392314;888297

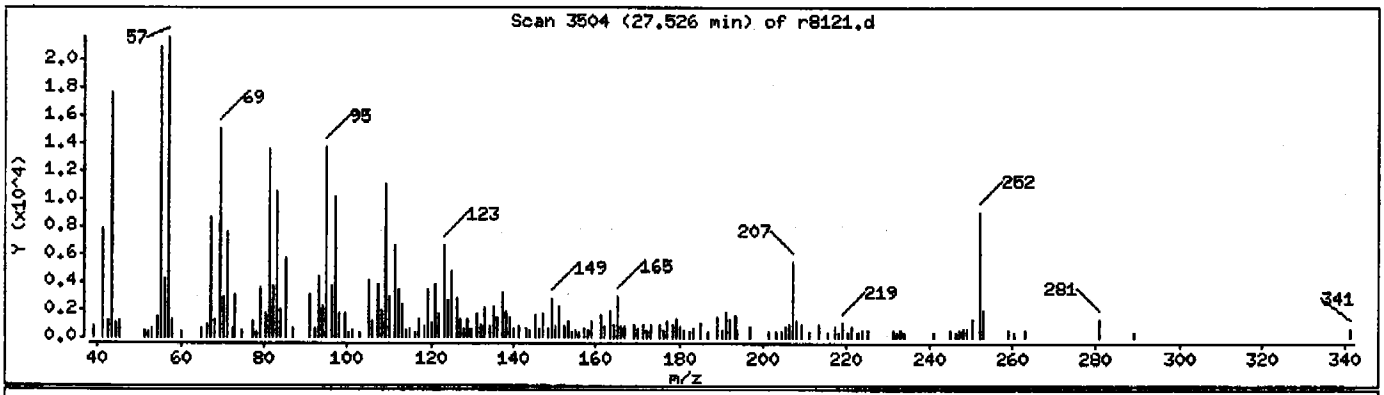
Operator: BNAMS 4

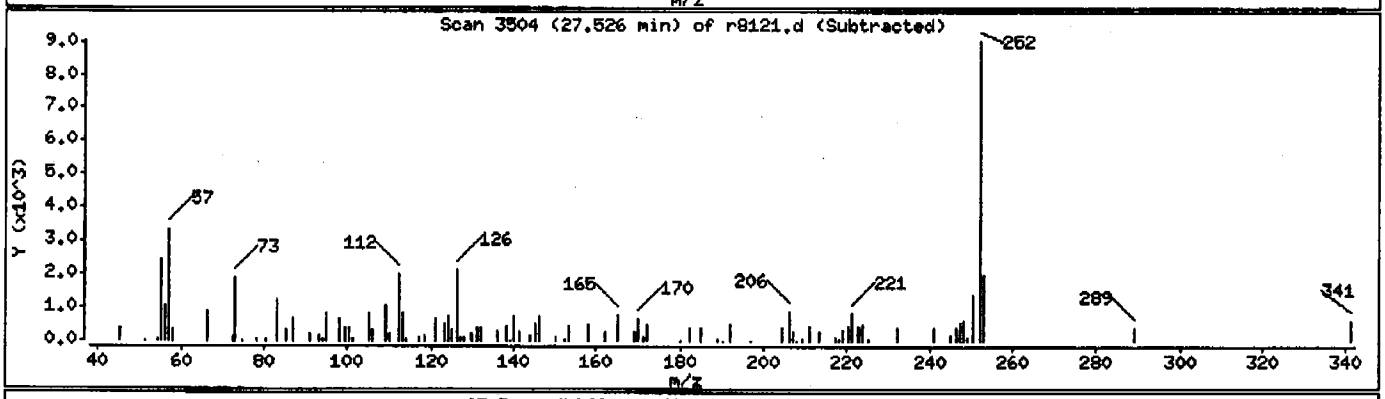
Column phase: DB-5

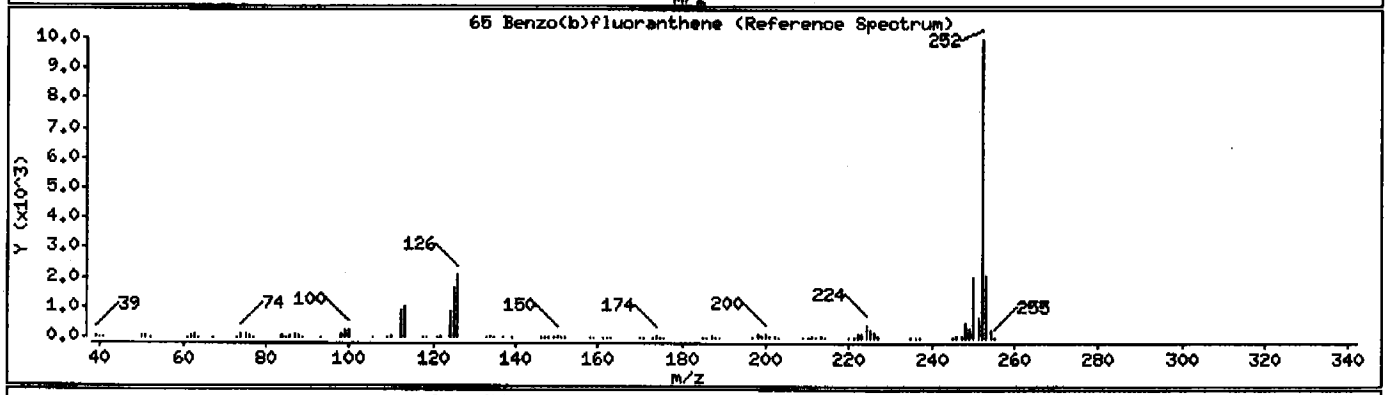
Column diameter: 0.25

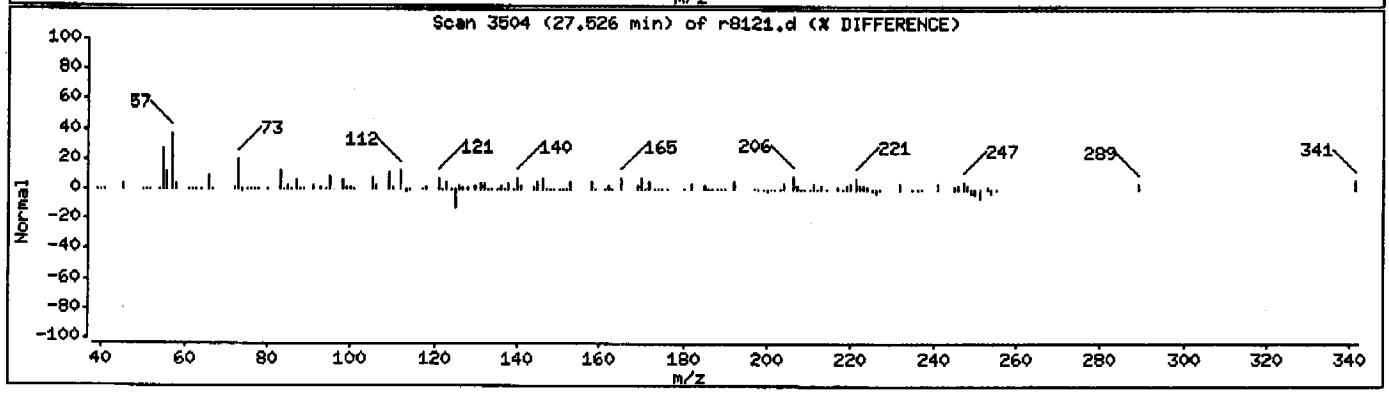
65 Benzo(b)fluoranthene

Concentration: 19 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d

Date : 07-DEC-2002 11:19

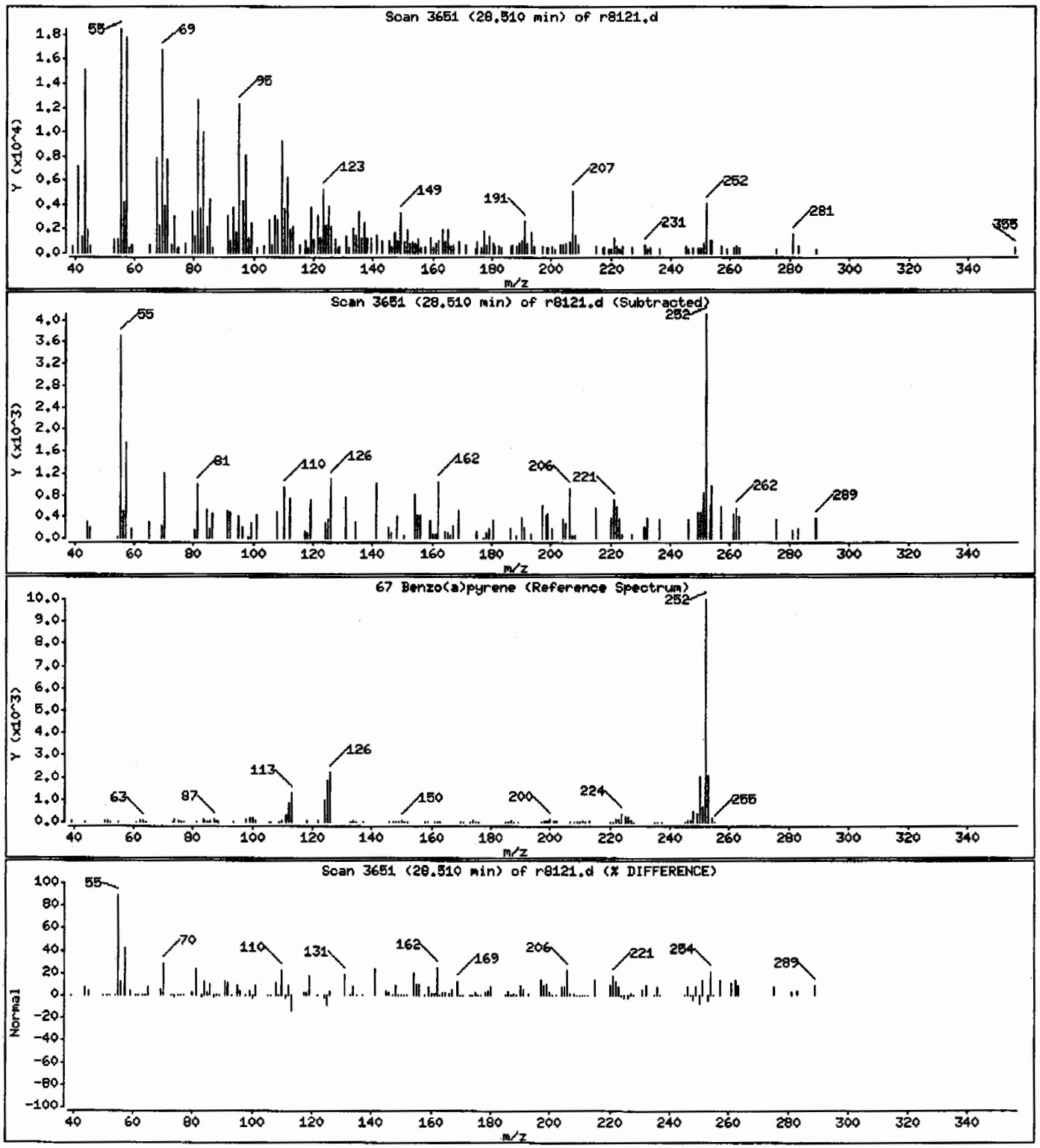
Client ID: HA-01-07-0-6 Instrument: BNAMS1.i

Sample Info: 392314;888297

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

67 Benzo(a)pyrene Concentration: 14 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d

Date : 07-DEC-2002 11:19

Client ID: HA-01-07-0-6

Instrument: BNAMS1.i

Sample Info: 392314;888297

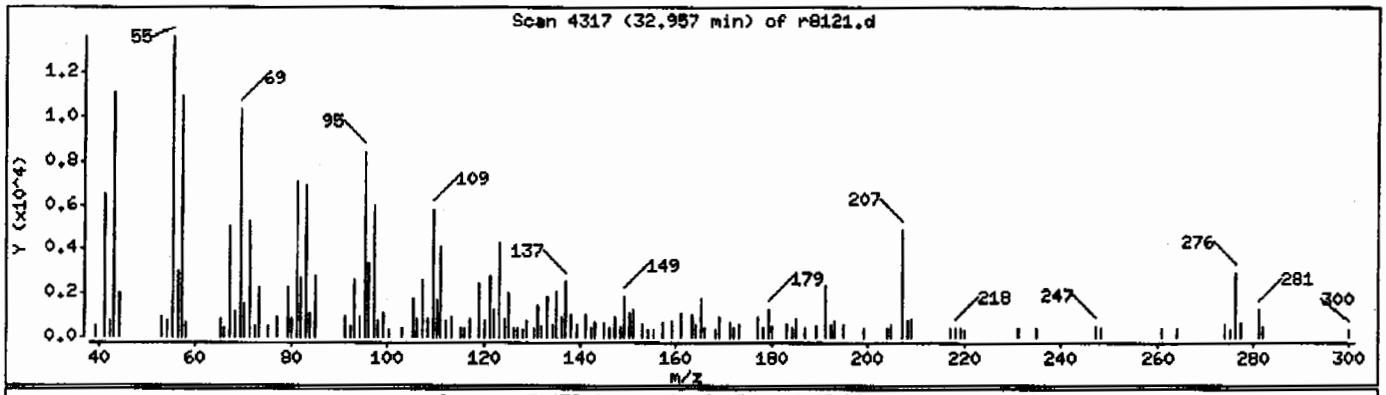
Operator: BNAMS 4

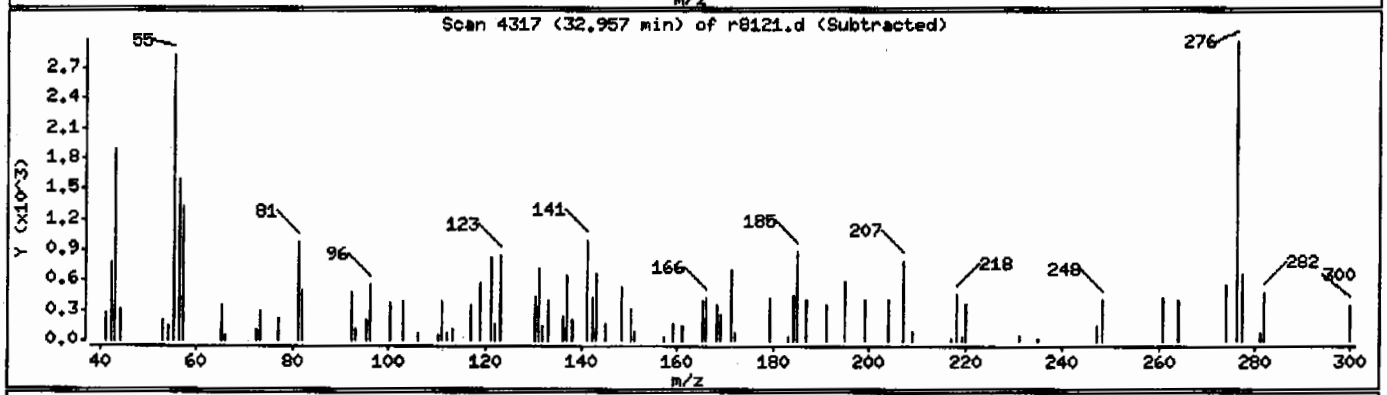
Column phase: DB-5

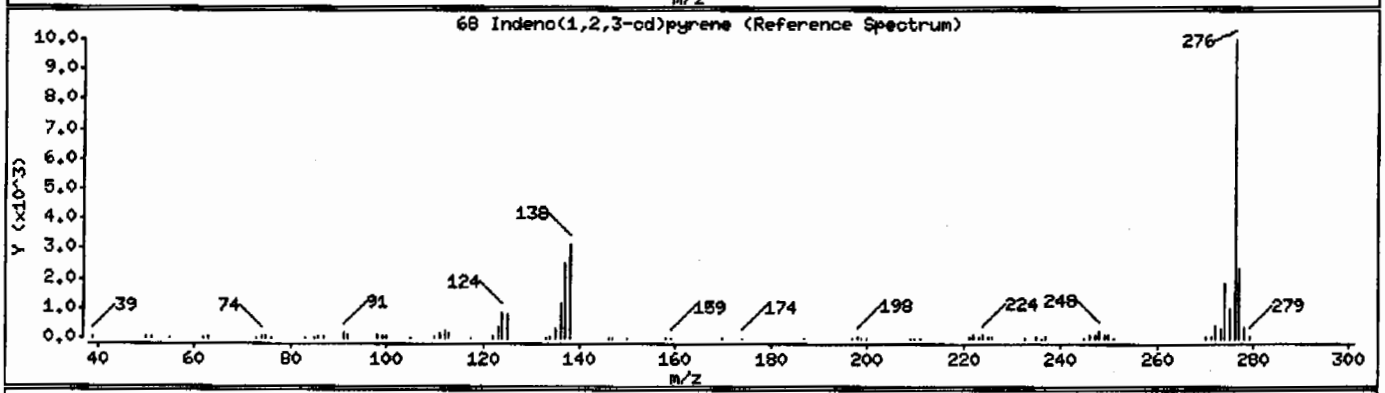
Column diameter: 0.25

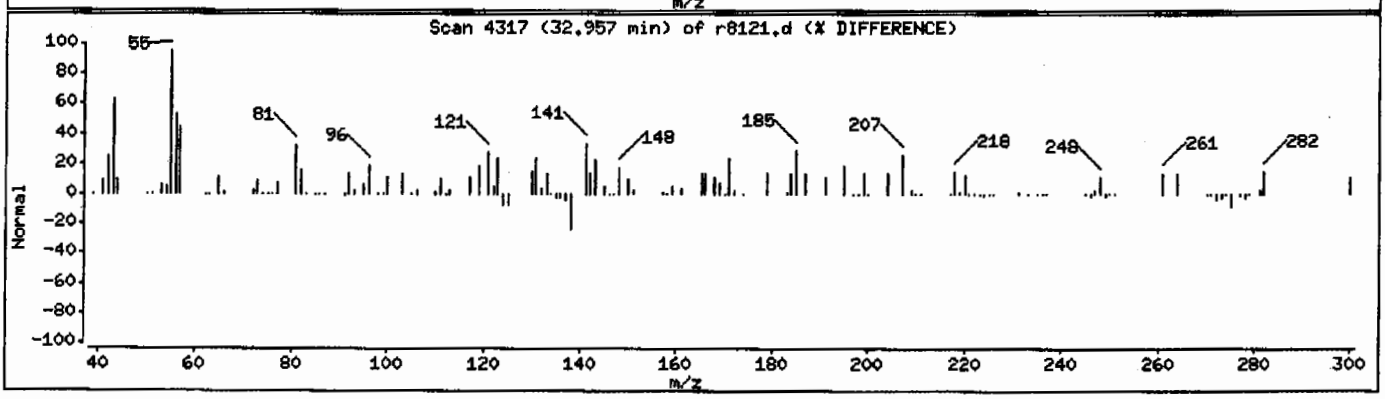
68 Indeno(1,2,3-cd)pyrene

Concentration: 16 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8121.d

Date : 07-DEC-2002 11:19

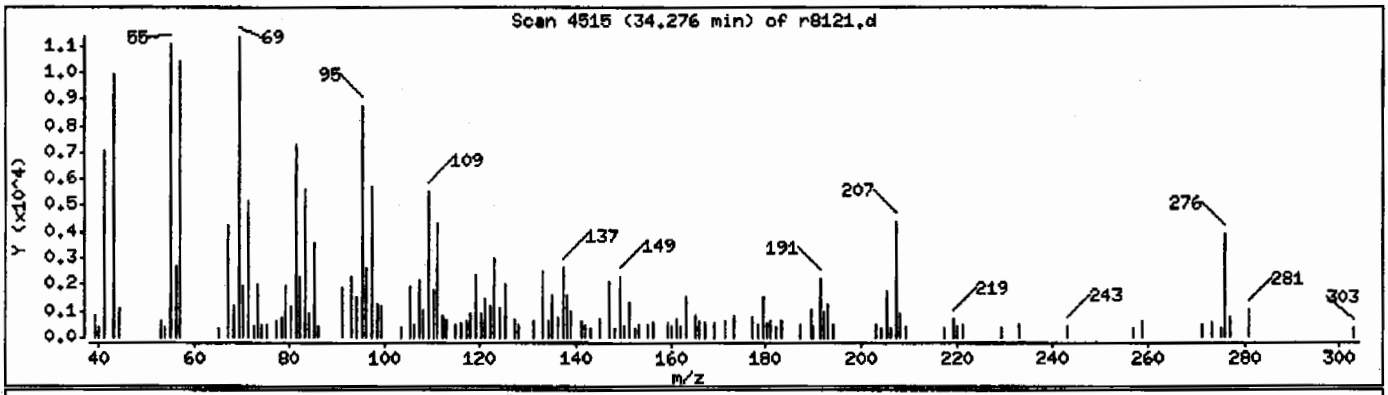
Client ID: HA-01-07-0-6 Instrument: BNAMS1.i

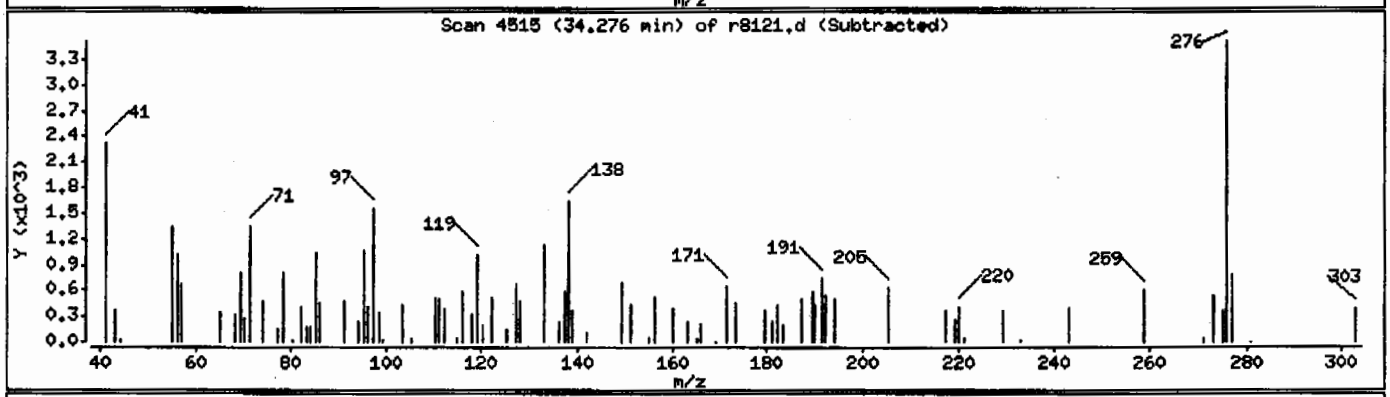
Sample Info: 392314;888297

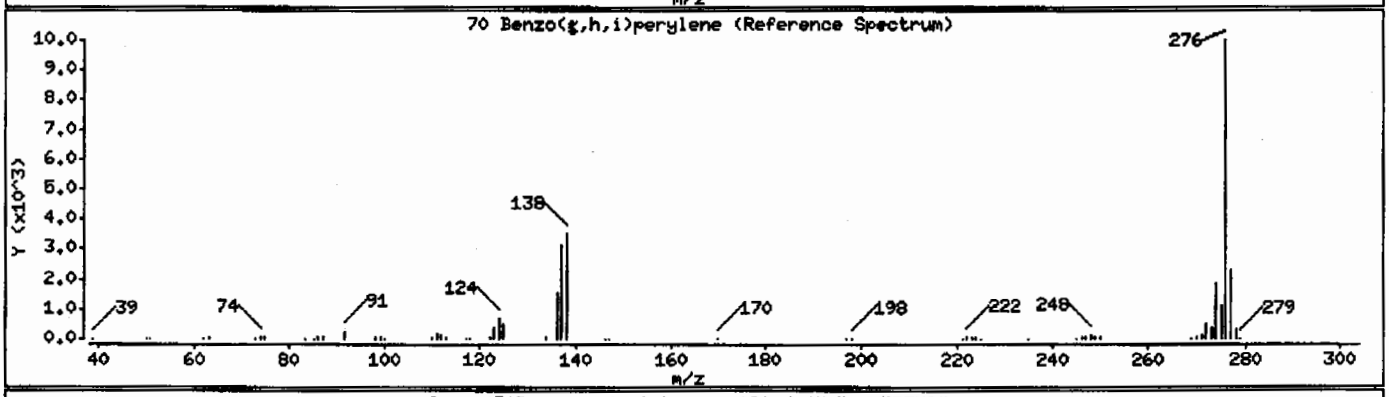
Operator: BNAMS 4

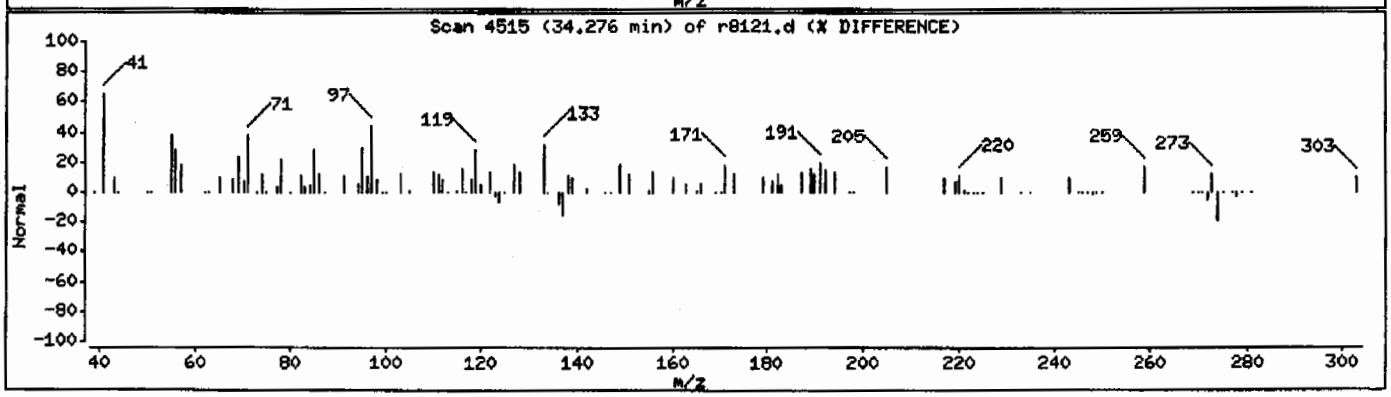
Column phase: DB-5 Column diameter: 0.25

70 Benzo(g,h,i)perylene Concentration: 18 ug/Kg









Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8119.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8119.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	74
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	ND	370
2,6-Dinitrotoluene	ND	74
3-Nitroaniline	ND	740
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	740
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	ND	370
Anthracene	ND	370

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8119.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	ND	370
Pyrene	ND	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	37
Chrysene	ND	370
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	ND	37
Benzo(k)fluoranthene	ND	37
Benzo(a)pyrene	ND	37
Indeno(1,2,3-cd)pyrene	ND	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	ND	370

Client ID: **HA-01-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392315**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8119.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.4

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8119.d
Report Date: 08-Dec-2002 07:02

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8119.d
Lab Smp Id: 392315 Client Smp ID: HA-01-06-0-6
Inj Date : 07-DEC-2002 09:46
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392315;888332
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/8270c1.m
Meth Date : 07-Dec-2002 07:19 wahied Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	10.40000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.621	10.594	(0.813)	2634891	80.0054	6000
$ 17 Phenol-d5 (SUR)	99	12.420	12.418	(0.951)	3123726	84.9453	6300
* 79 1,4-Dichlorobenzene-d4	152	13.062	13.062	(1.000)	692871	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.017	14.022	(0.920)	1216884	43.1147	3200
* 80 Naphthalene-d8	136	15.240	15.246	(1.000)	2891748	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.039	17.044	(0.937)	2359267	41.6763	3100
* 82 Acenaphthene-d10	164	18.178	18.185	(1.000)	1739788	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.488	19.493	(1.072)	635021	70.4571	5200
* 83 Phenanthrene-d10	188	20.654	20.661	(1.000)	3483642	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.282	23.282	(0.928)	2191444	41.6350	3100
* 81 Chrysene-d12	240	25.091	25.108	(1.000)	2451805	40.0000	
* 84 Perylene-d12	264	28.717	28.738	(1.000)	2567168	40.0000	

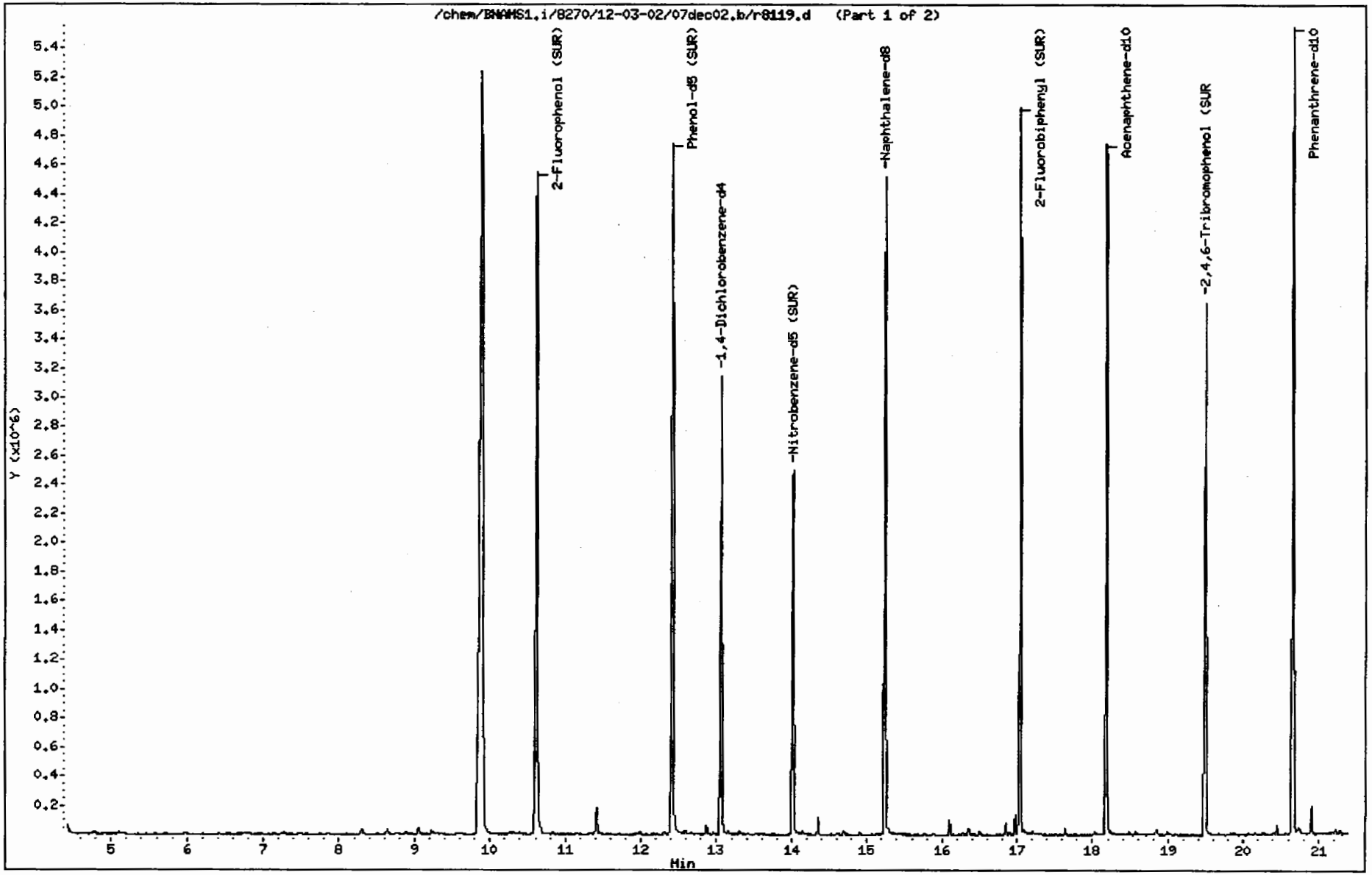
Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8119.d
Date : 07-DEC-2002 09:46
Client ID: HA-01-06-0-6
Sample Info: 392315;888332

Instrument: BNAMS1.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25



670

STL Edison

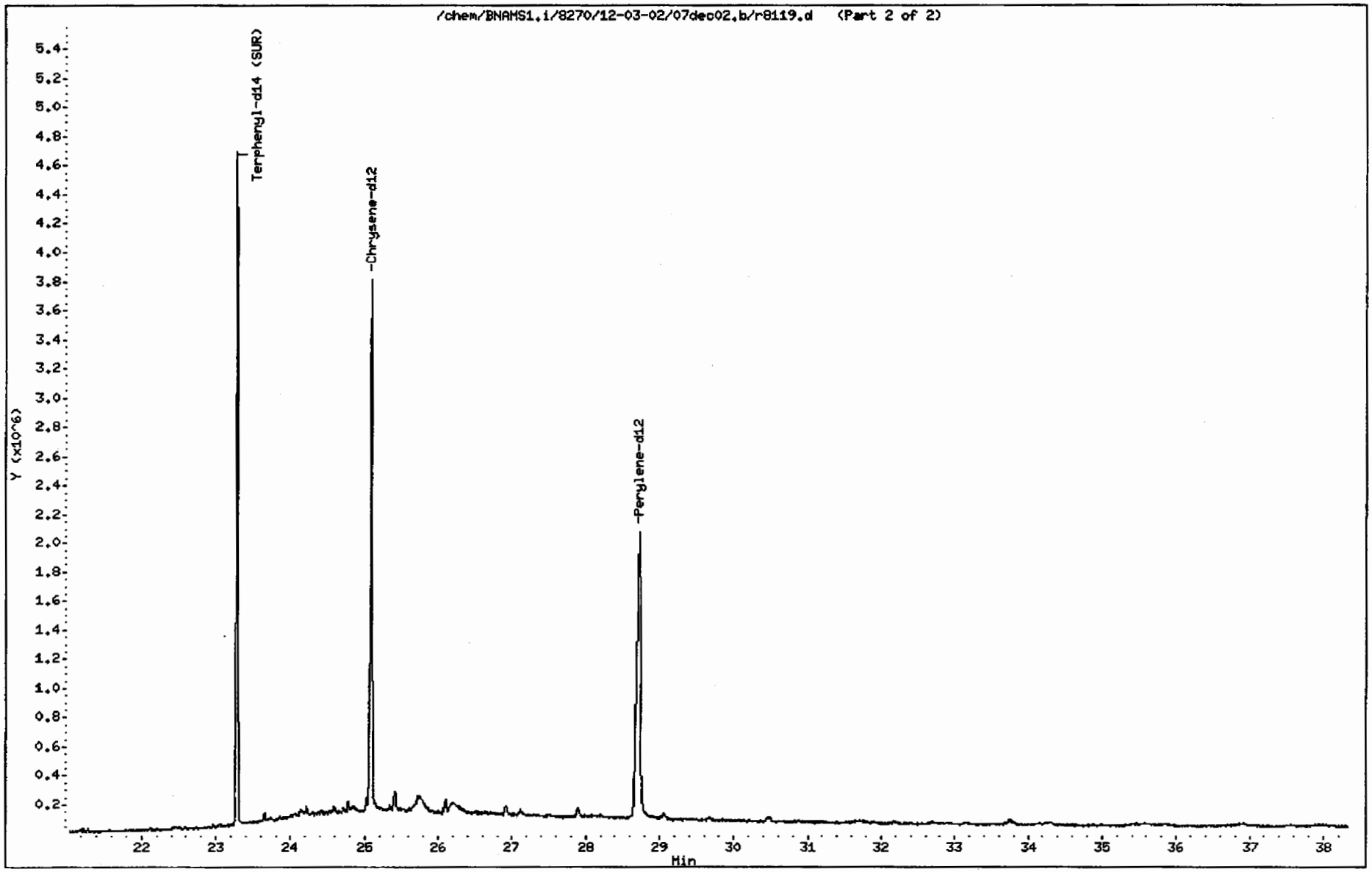
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8119.d
Date : 07-DEC-2002 09:46
Client ID: HA-01-06-0-6
Sample Info: 392315;888332

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8106.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8106.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	ND	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	ND	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	ND	380
Anthracene	ND	380

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8106.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	380
Di-n-butylphthalate	ND	380
Fluoranthene	ND	380
Pyrene	7.7J	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	ND	38
Chrysene	ND	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	ND	38
Benzo(k)fluoranthene	ND	38
Benzo(a)pyrene	ND	38
Indeno(1,2,3-cd)pyrene	ND	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	ND	380

Client ID: **HA-01-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392316**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8106.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.7

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8106.d
Report Date: 07-Dec-2002 08:28

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8106.d
Lab Smp Id: 392316 Client Smp ID: HA-01-05-0-6
Inj Date : 06-DEC-2002 13:39
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392316;888367
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/06dec02.b/8270c1.m
Meth Date : 06-Dec-2002 08:53 czhao Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	11.70000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.640	10.620	(0.813)	2535552	75.4876	5700
$ 17 Phenol-d5 (SUR)	99	12.433	12.438	(0.950)	2950880	78.6800	5900
* 79 1,4-Dichlorobenzene-d4	152	13.081	13.081	(1.000)	706653	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.030	14.041	(0.919)	1126214	38.3751	2900
* 80 Naphthalene-d8	136	15.260	15.264	(1.000)	3006829	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.054	17.056	(0.937)	2246989	38.6569	2900
* 82 Acenaphthene-d10	164	18.200	18.203	(1.000)	1786415	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.504	19.510	(1.072)	597491	64.5627	4900
* 83 Phenanthrene-d10	188	20.671	20.677	(1.000)	3640596	40.0000	
57 Pyrene	202	23.054	23.072	(0.918)	9385	0.10157	7.7(a)
$ 78 Terphenyl-d14 (SUR)	244	23.292	23.296	(0.928)	2337772	40.4044	3000
* 81 Chrysene-d12	240	25.105	25.120	(1.000)	2695174	40.0000	
* 84 Perylene-d12	264	28.740	28.762	(1.000)	2816445	40.0000	

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8106.d
Report Date: 07-Dec-2002 08:28

QC Flag Legend

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

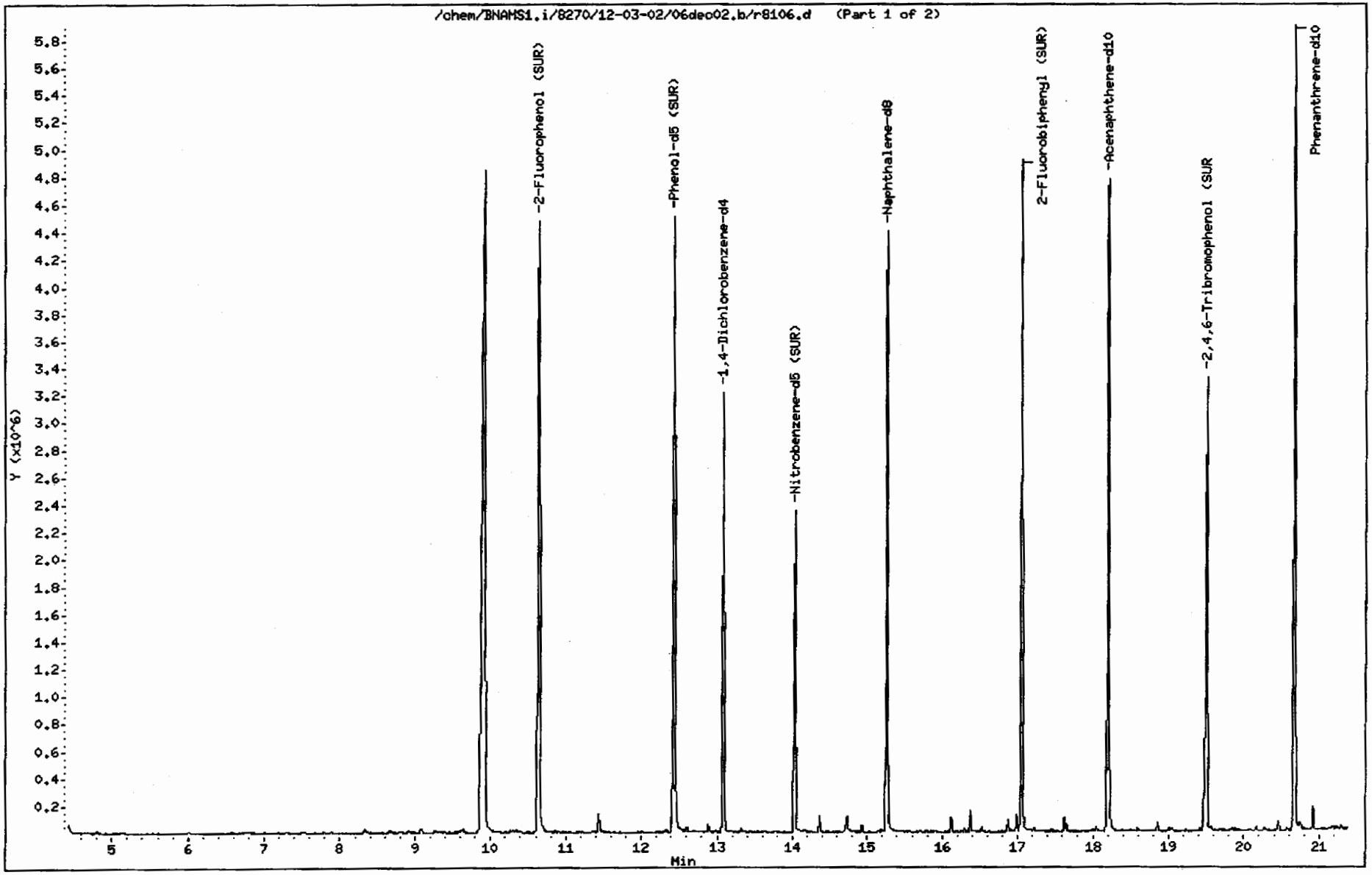
Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8106.d
Date : 06-DEC-2002 13:39
Client ID: HA-01-05-0-6
Sample Info: 392316;888367

Instrument: BNAMS1.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25



678

STL Edison

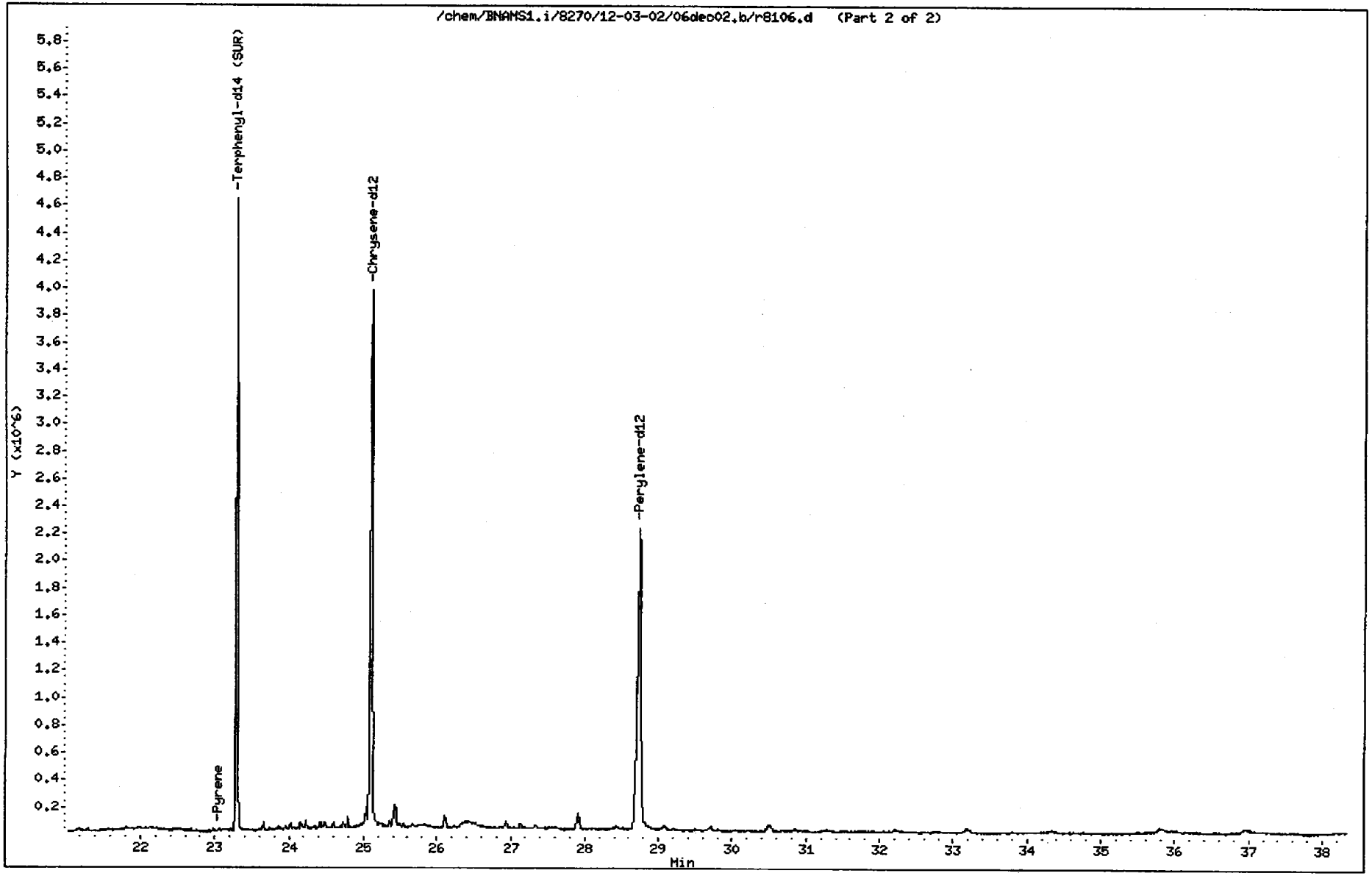
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8106.d
Date : 06-DEC-2002 13:39
Client ID: HA-01-05-0-6
Sample Info: 392316;888367

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8106.d

Date : 06-DEC-2002 13:39

Client ID: HA-01-05-0-6

Instrument: BNAMS1.i

Sample Info: 392316;888367

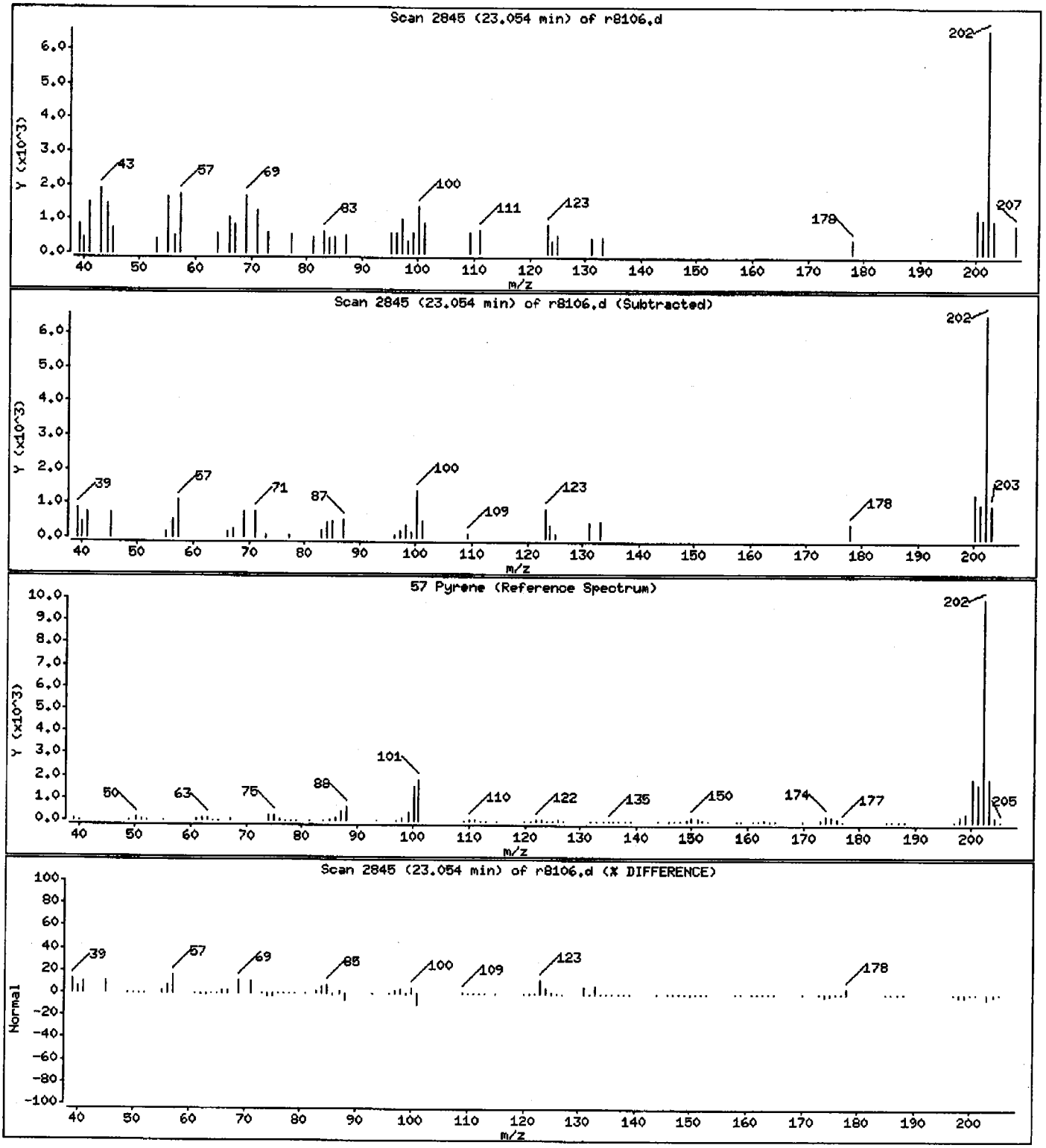
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 7.7 ug/Kg



Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8136.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	3700
2-Chlorophenol	ND	3700
2-Methylphenol	ND	3700
4-Methylphenol	ND	3700
2-Nitrophenol	ND	3700
2,4-Dimethylphenol	ND	3700
2,4-Dichlorophenol	ND	3700
4-Chloro-3-methylphenol	ND	3700
2,4,6-Trichlorophenol	ND	3700
2,4,5-Trichlorophenol	ND	3700
2,4-Dinitrophenol	ND	15000
4-Nitrophenol	ND	15000
4,6-Dinitro-2-methylphenol	ND	15000
Pentachlorophenol	ND	15000

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8136.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	370
1,3-Dichlorobenzene	ND	3700
1,4-Dichlorobenzene	ND	3700
1,2-Dichlorobenzene	ND	3700
bis(2-chloroisopropyl)ether	ND	3700
N-Nitroso-di-n-propylamine	ND	370
Hexachloroethane	ND	370
Nitrobenzene	ND	370
Isophorone	ND	3700
bis(2-Chloroethoxy)methane	ND	3700
1,2,4-Trichlorobenzene	ND	370
Naphthalene	ND	3700
4-Chloroaniline	ND	3700
Hexachlorobutadiene	ND	740
2-Methylnaphthalene	ND	3700
Hexachlorocyclopentadiene	ND	3700
2-Chloronaphthalene	ND	3700
2-Nitroaniline	ND	7400
Dimethylphthalate	ND	3700
Acenaphthylene	ND	3700
2,6-Dinitrotoluene	ND	740
3-Nitroaniline	ND	7400
Acenaphthene	ND	3700
Dibenzofuran	ND	3700
2,4-Dinitrotoluene	ND	740
Diethylphthalate	ND	3700
4-Chlorophenyl-phenylether	ND	3700
Fluorene	ND	3700
4-Nitroaniline	ND	7400
N-Nitrosodiphenylamine	ND	3700
4-Bromophenyl-phenylether	ND	3700
Hexachlorobenzene	ND	370
Phenanthrene	ND	3700
Anthracene	ND	3700

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8136.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	3700
Di-n-butylphthalate	1200 J	3700
Fluoranthene	81 J	3700
Pyrene	190 J	3700
Butylbenzylphthalate	ND	3700
3,3'-Dichlorobenzidine	ND	7400
Benzo(a)anthracene	ND	370
Chrysene	ND	3700
bis(2-Ethylhexyl)phthalate	3400 J	3700
Di-n-octylphthalate	ND	3700
Benzo(b)fluoranthene	ND	370
Benzo(k)fluoranthene	ND	370
Benzo(a)pyrene	ND	370
Indeno(1,2,3-cd)pyrene	ND	370
Dibenz(a,h)anthracene	ND	370
Benzo(g,h,i)perylene	ND	3700

Client ID: **HA-02-08-0-6**
Site: Earle NWS Closure

Lab Sample No: **392317**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8136.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 10.4

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. 1-Hexanol, 2-ethyl-	13.16	4000	
2. Unknown Alkane	19.68	4100	
3. Unknown Alkane	20.45	8400	
4. Unknown Alkane	21.03	3700	
5. Unknown Alkane	21.79	3100	
6. Unknown	21.90	4100	
7. Unknown Alkane	22.26	15000	
8. Unknown	22.38	3300	
9. Unknown Alkane	22.62	10000	
10. Unknown Alkane	22.68	4900	
11. Unknown	22.75	3100	
12. Unknown	22.80	6200	
13. Unknown Alkane	22.85	3400	
14. Unknown	23.03	5900	
15. Unknown	23.51	11000	
16. Unknown	23.66	8900	
17. Unknown Alkane	23.88	14000	
18. Unknown	24.01	13000	
19. Unknown Alkane	25.01	24000	
20. Unknown	34.10	9800	
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 159900

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d
Report Date: 09-Dec-2002 09:44

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d
Lab Smp Id: 392317 Client Smp ID: HA-02-08-0-6
Inj Date : 08-DEC-2002 10:30
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392317;888402
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/08dec02.b/8270c1.m
Meth Date : 08-Dec-2002 07:17 czhao Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 6
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	10.40000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.589	10.592	(0.811)	222453	6.08334	4500
$ 17 Phenol-d5 (SUR)	99	12.393	12.411	(0.949)	285196	6.98485	5200
* 79 1,4-Dichlorobenzene-d4	152	13.054	13.055	(1.000)	769317	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	13.997	14.015	(0.919)	100256	3.36587	2500(a)
* 80 Naphthalene-d8	136	15.233	15.239	(1.000)	3051755	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.020	17.032	(0.937)	241397	4.22095	3100(a)
* 82 Acenaphthene-d10	164	18.170	18.173	(1.000)	1757644	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.467	19.482	(1.071)	51862	5.69575	4200
* 83 Phenanthrene-d10	188	20.643	20.651	(1.000)	2833640	40.0000	
55 Di-n-butylphthalate	149	21.559	21.567	(1.044)	121662	1.63493	1200(a)
56 Fluoranthene	202	22.657	22.665	(1.098)	8048	0.10879	81(aH)
57 Pyrene	202	23.045	23.049	(0.918)	15684	0.25236	190(aH)
$ 78 Terphenyl-d14 (SUR)	244	23.270	23.273	(0.927)	158786	4.08011	3000(a)
63 bis(2-Ethylhexyl)phthalate	149	25.045	25.021	(0.997)	184086	4.52365	3400(a)

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d
Report Date: 09-Dec-2002 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
* 81 Chrysene-d12	240	25.114	25.094	(1.000)	1812819	40.0000		
* 84 Perylene-d12	264	28.793	28.701	(1.000)	1774817	40.0000		(H)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

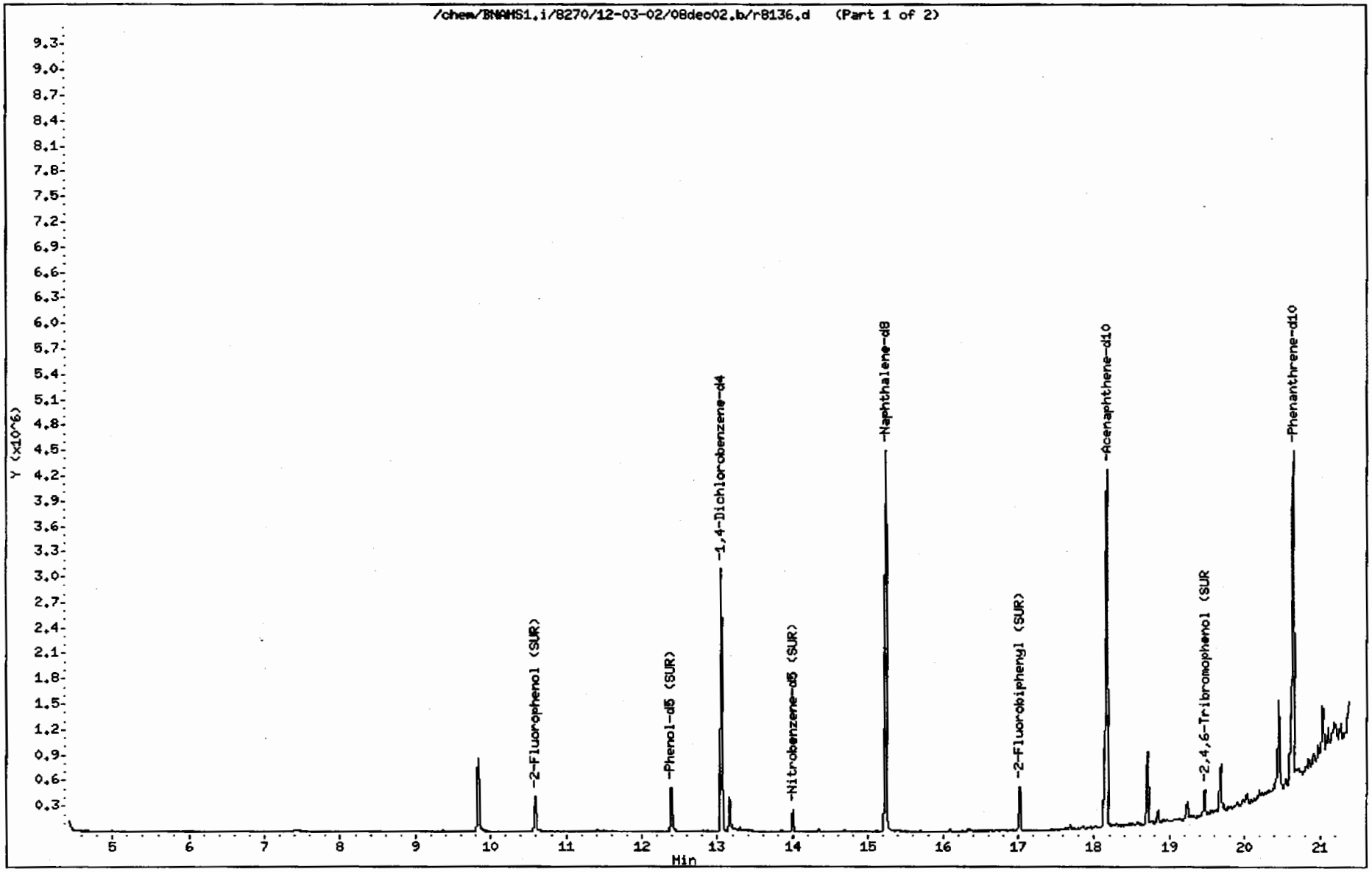
Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d
Date : 08-DEC-2002 10:30
Client ID: HA-02-08-0-6
Sample Info: 392317;888402

Instrument: BNAMS1.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25



687

STL Edison

D092

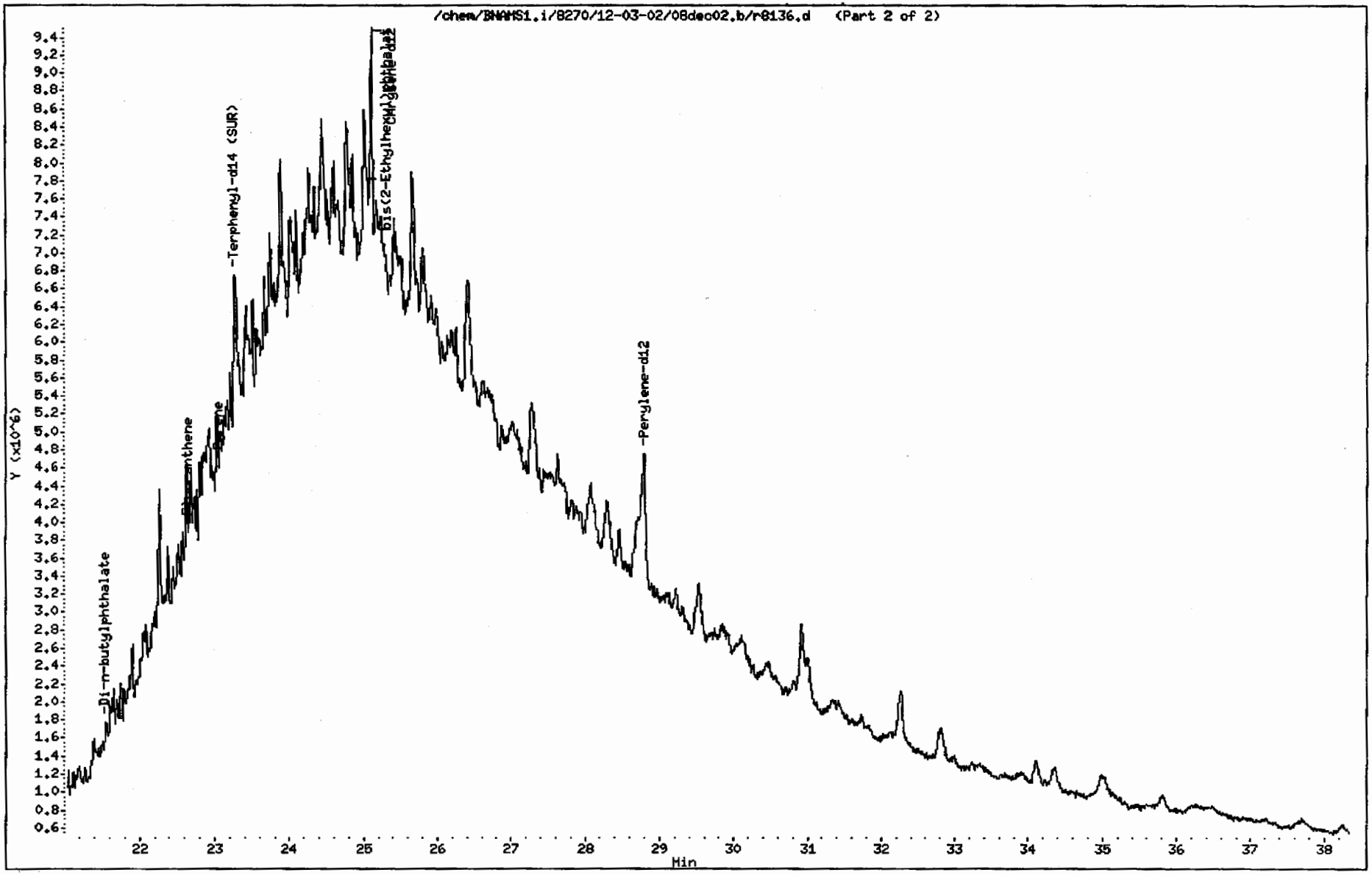
Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d
Date : 08-DEC-2002 10:30
Client ID: HA-02-08-0-6
Sample Info: 392317;888402

Instrument: BNAMS1.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25



688

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

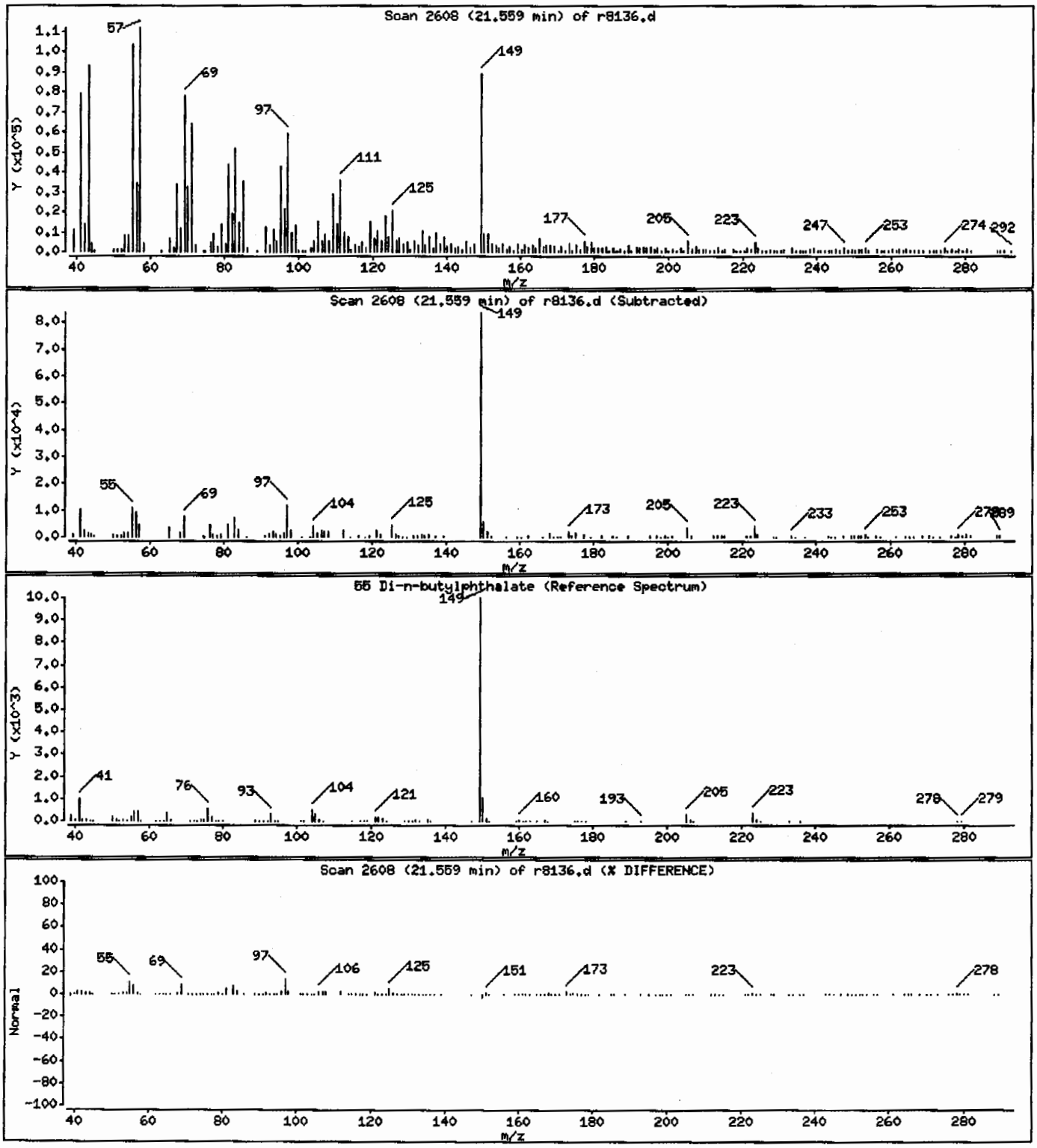
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

55 Di-n-butylphthalate Concentration: 1200 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

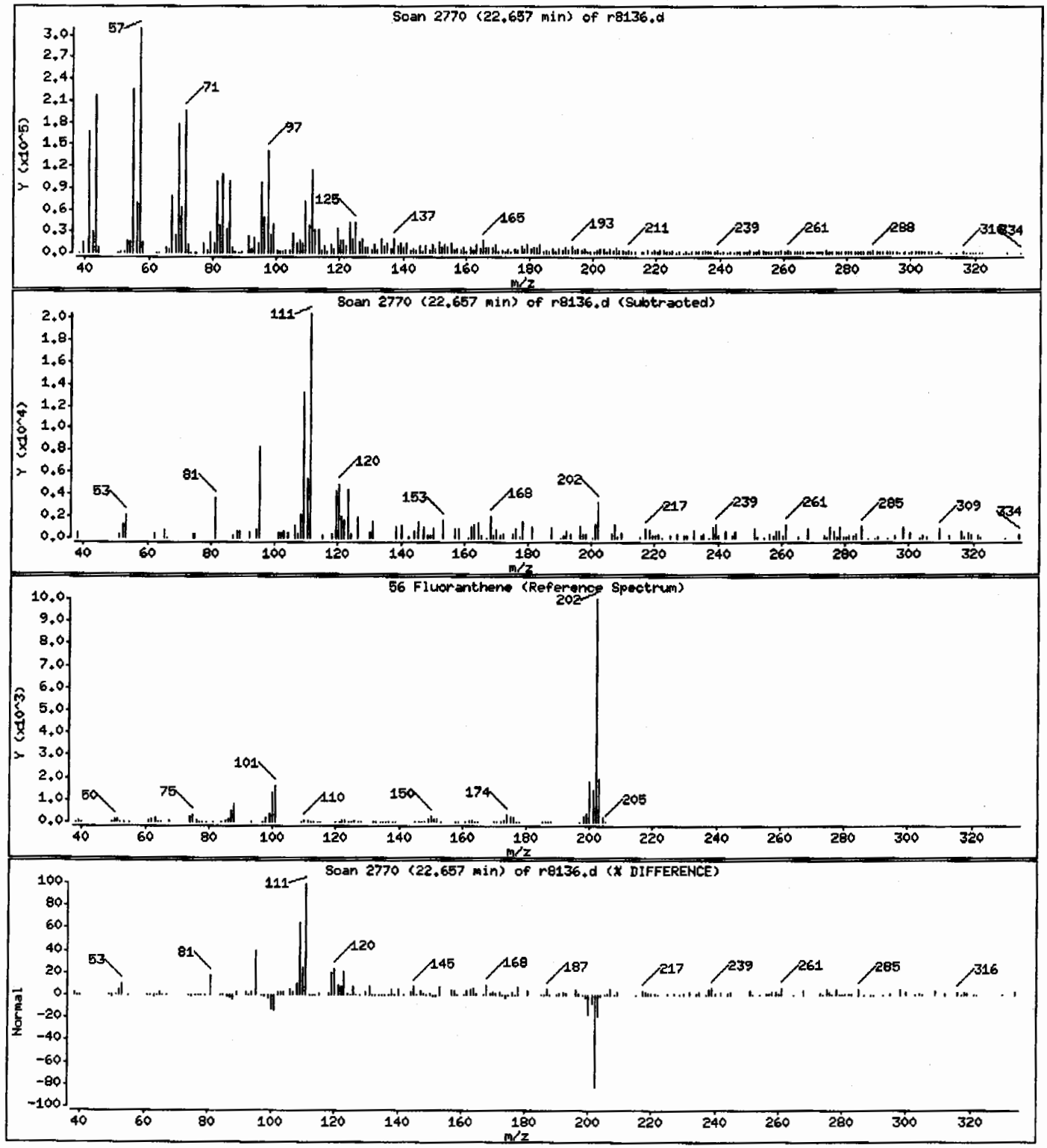
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

56 Fluoranthene Concentration: 81 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

Client ID: HA-02-08-0-6

Instrument: BNAMS1.i

Sample Info: 392317;888402

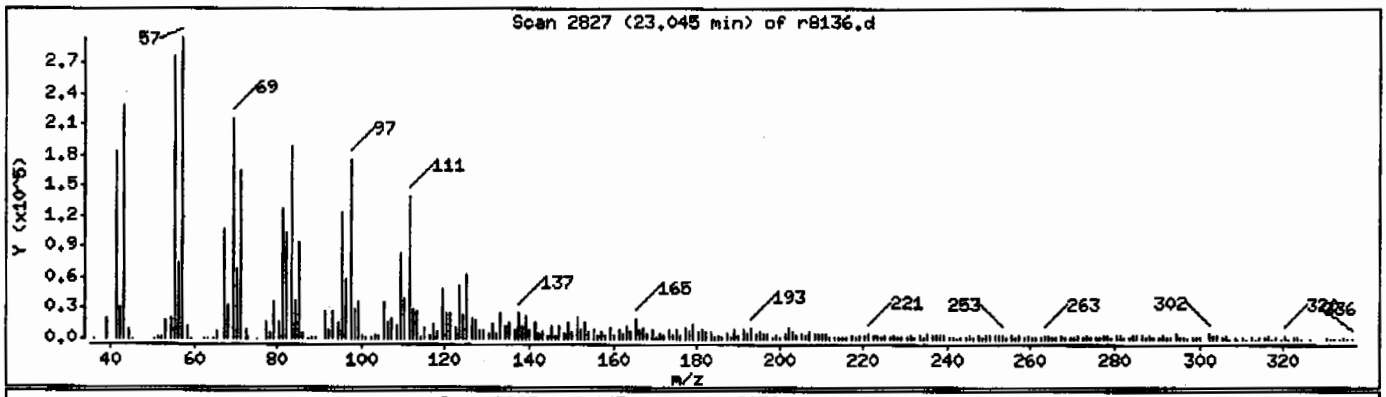
Operator: BNAMS 4

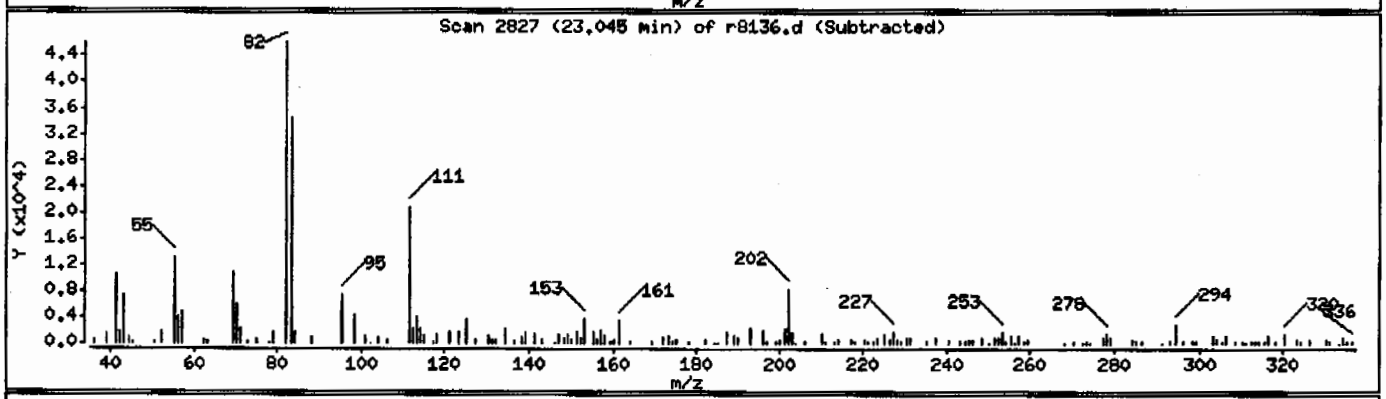
Column phase: DB-5

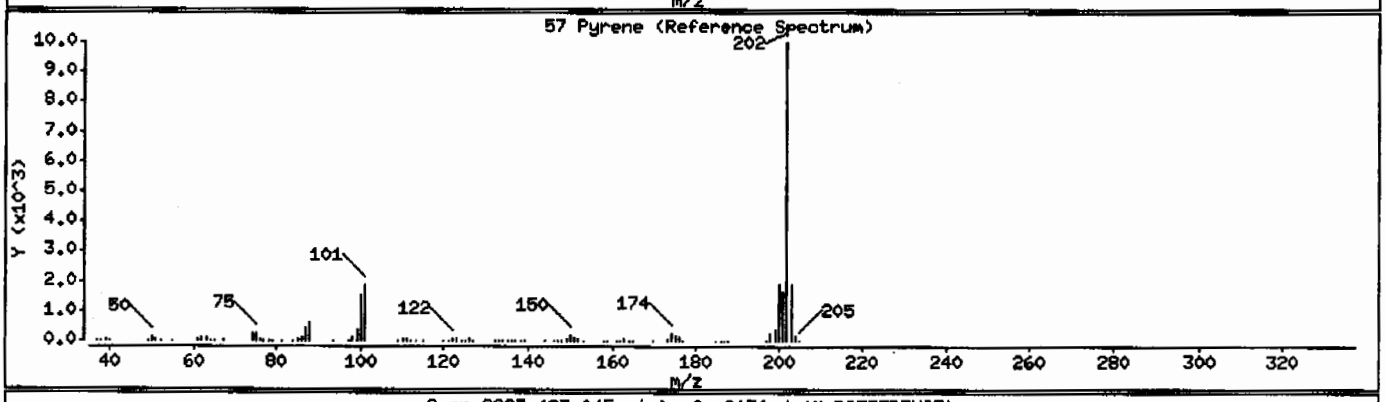
Column diameter: 0.25

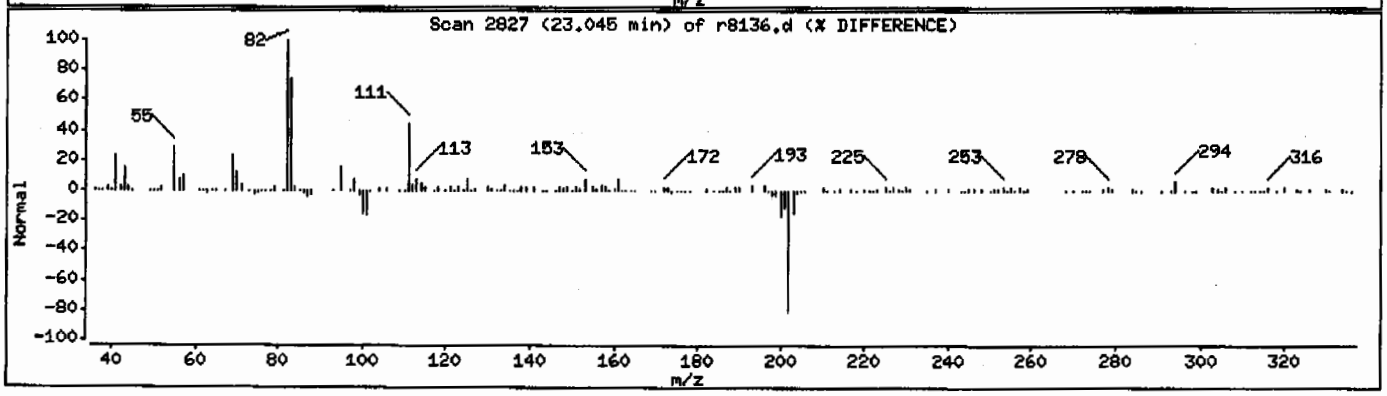
57 Pyrene

Concentration: 190 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

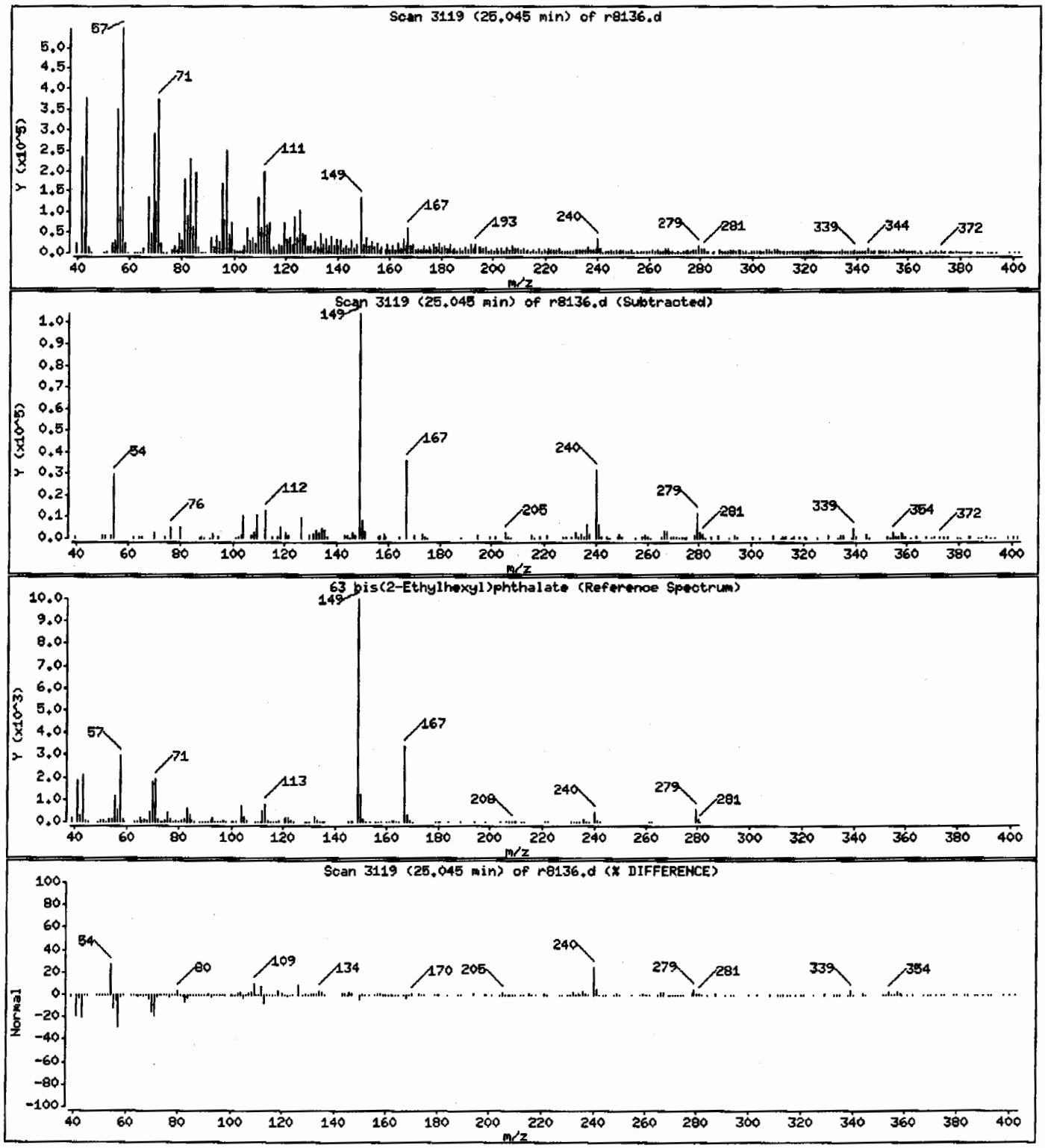
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

63 bis(2-Ethylhexyl)phthalate Concentration: 3400 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

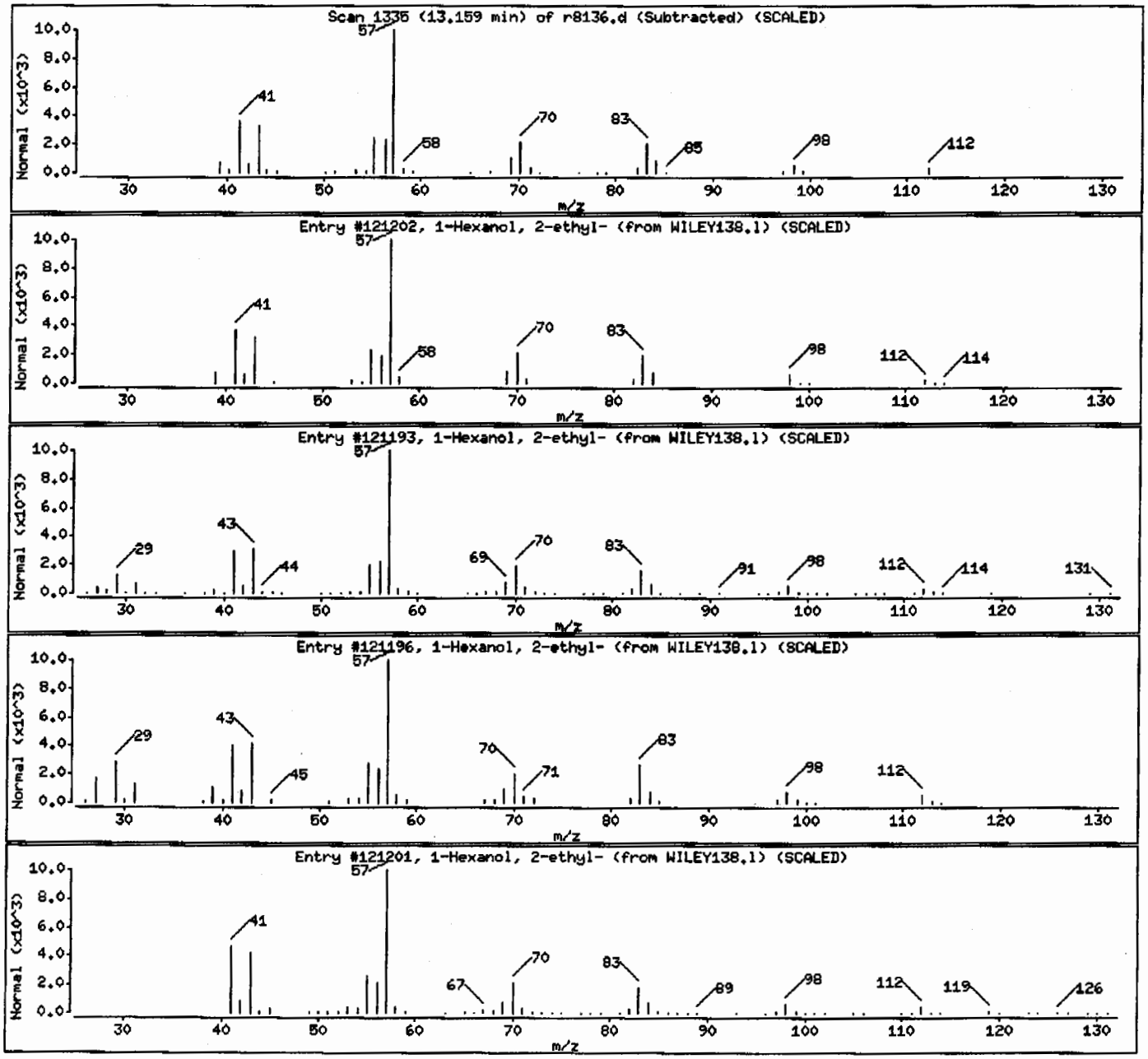
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Hexanol, 2-ethyl-	104-76-7	WILEY138.1	121202	90	C8H18O	130
1-Hexanol, 2-ethyl-	104-76-7	WILEY138.1	121193	90	C8H18O	130
1-Hexanol, 2-ethyl-	104-76-7	WILEY138.1	121196	78	C8H18O	130
1-Hexanol, 2-ethyl-	104-76-7	WILEY138.1	121201	74	C8H18O	130



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

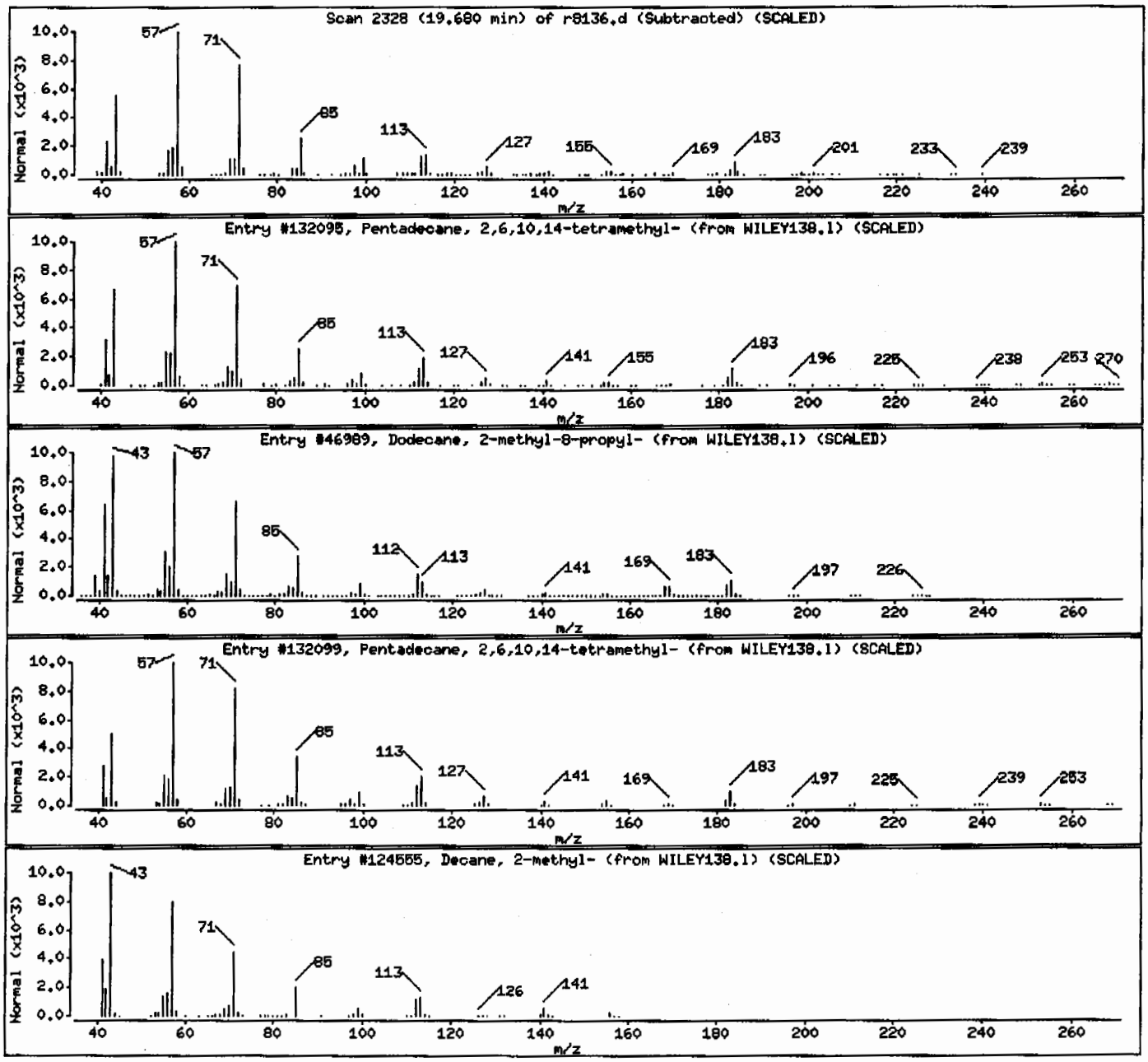
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	WILEY138.1	132095	90	C19H40	268
Dodecane, 2-methyl-8-propyl-	55045-07-3	WILEY138.1	46989	90	C16H34	226
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	WILEY138.1	132099	90	C19H40	268
Decane, 2-methyl-	6975-98-0	WILEY138.1	124555	87	C11H24	156



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

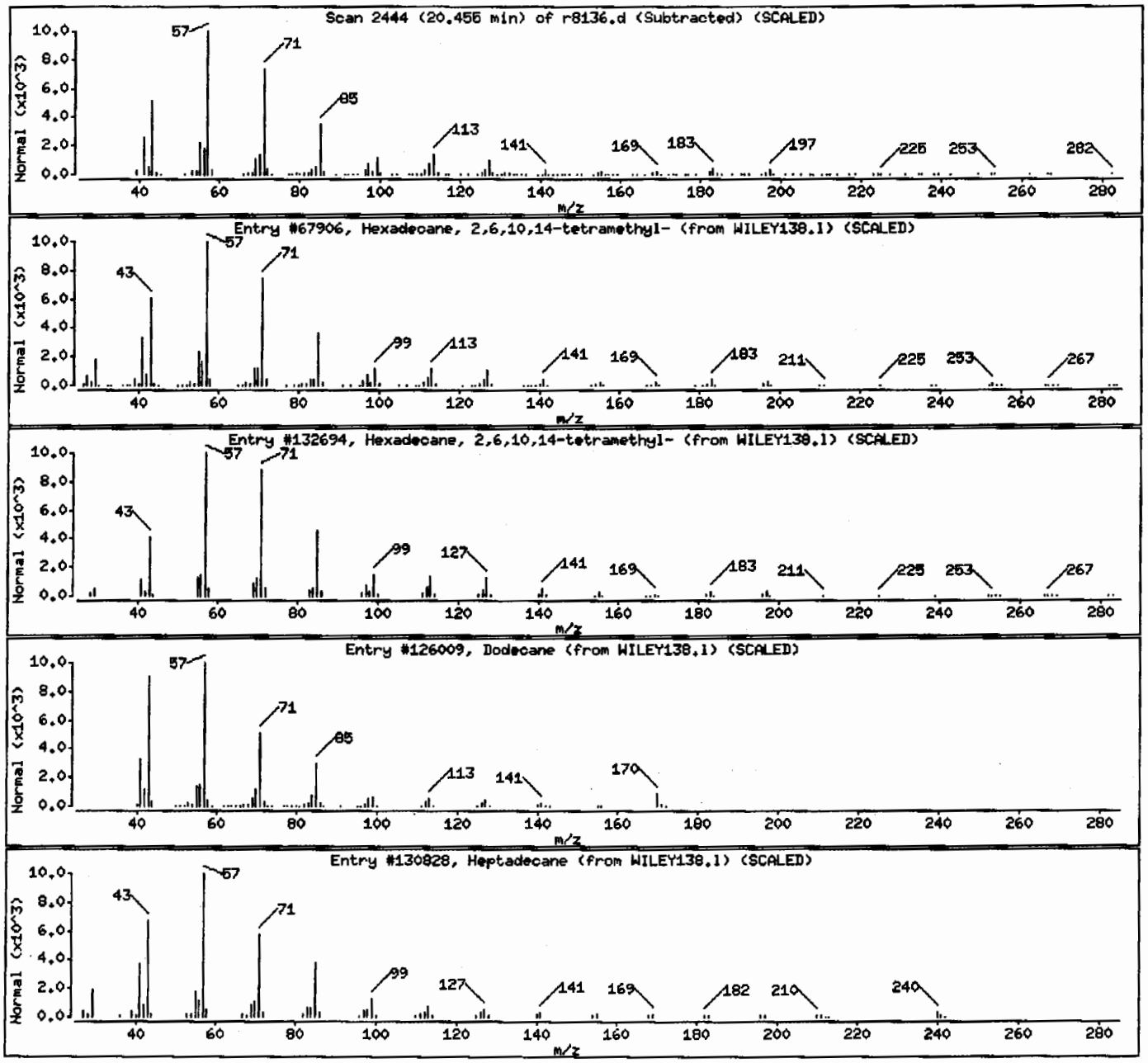
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	WILEY138.l	67906	99	C20H42	282
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	WILEY138.l	132694	91	C20H42	282
Dodecane	112-40-3	WILEY138.l	126009	91	C12H26	170
Heptadecane	629-78-7	WILEY138.l	130828	90	C17H36	240



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

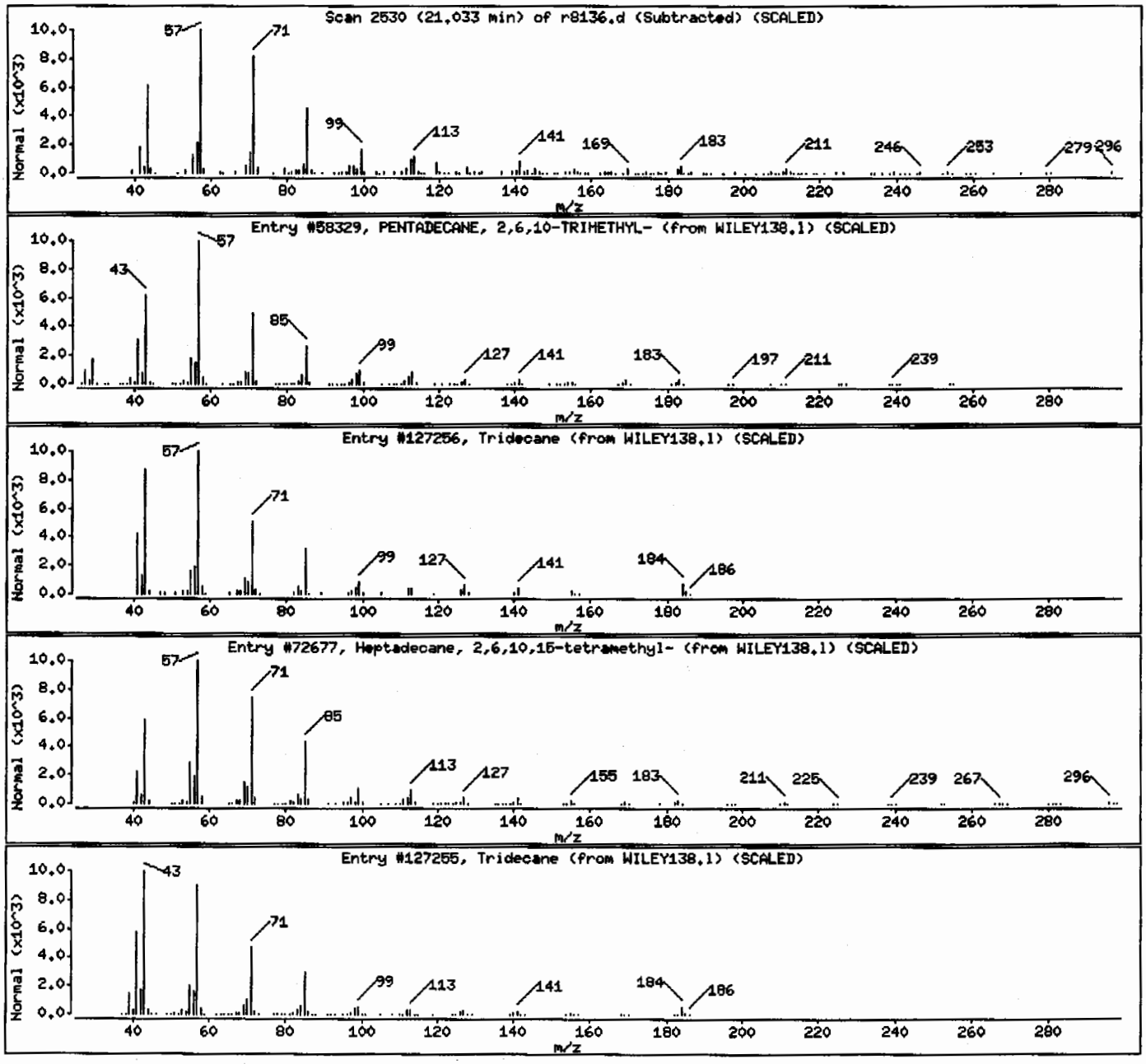
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
PENTADECANE, 2,6,10-TRIMETHYL-	0-00-0	WILEY138.1	58329	91	C18H38	254
Tridecane	629-50-5	WILEY138.1	127256	91	C13H28	184
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	WILEY138.1	72677	90	C21H44	296
Tridecane	629-50-5	WILEY138.1	127255	90	C13H28	184



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

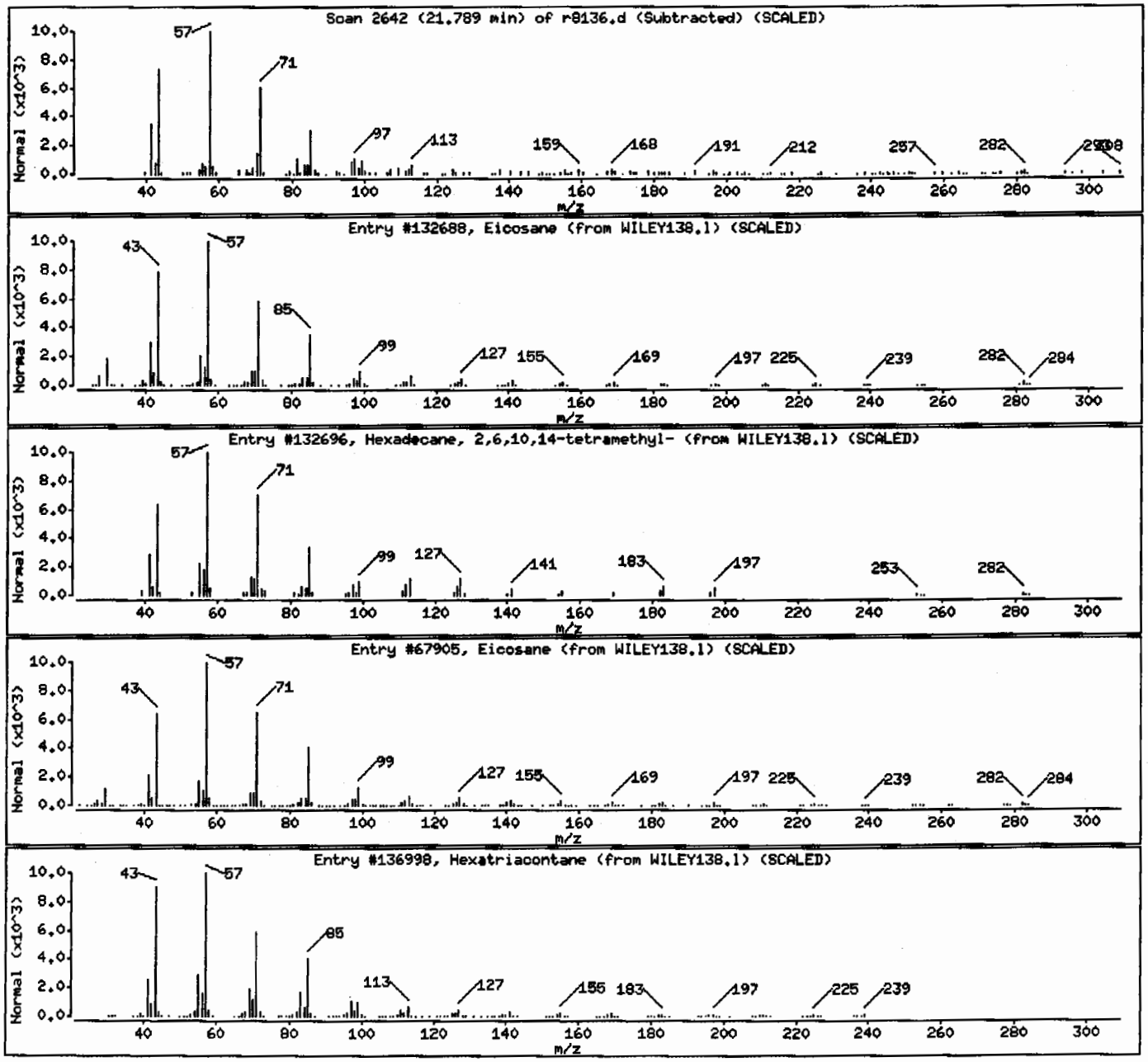
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Eicosane	112-95-8	WILEY138.1	132688	95	C20H42	282
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	WILEY138.1	132696	87	C20H42	282
Eicosane	112-95-8	WILEY138.1	67905	83	C20H42	282
Hexatriacontane	630-06-8	WILEY138.1	136998	83	C36H74	507



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

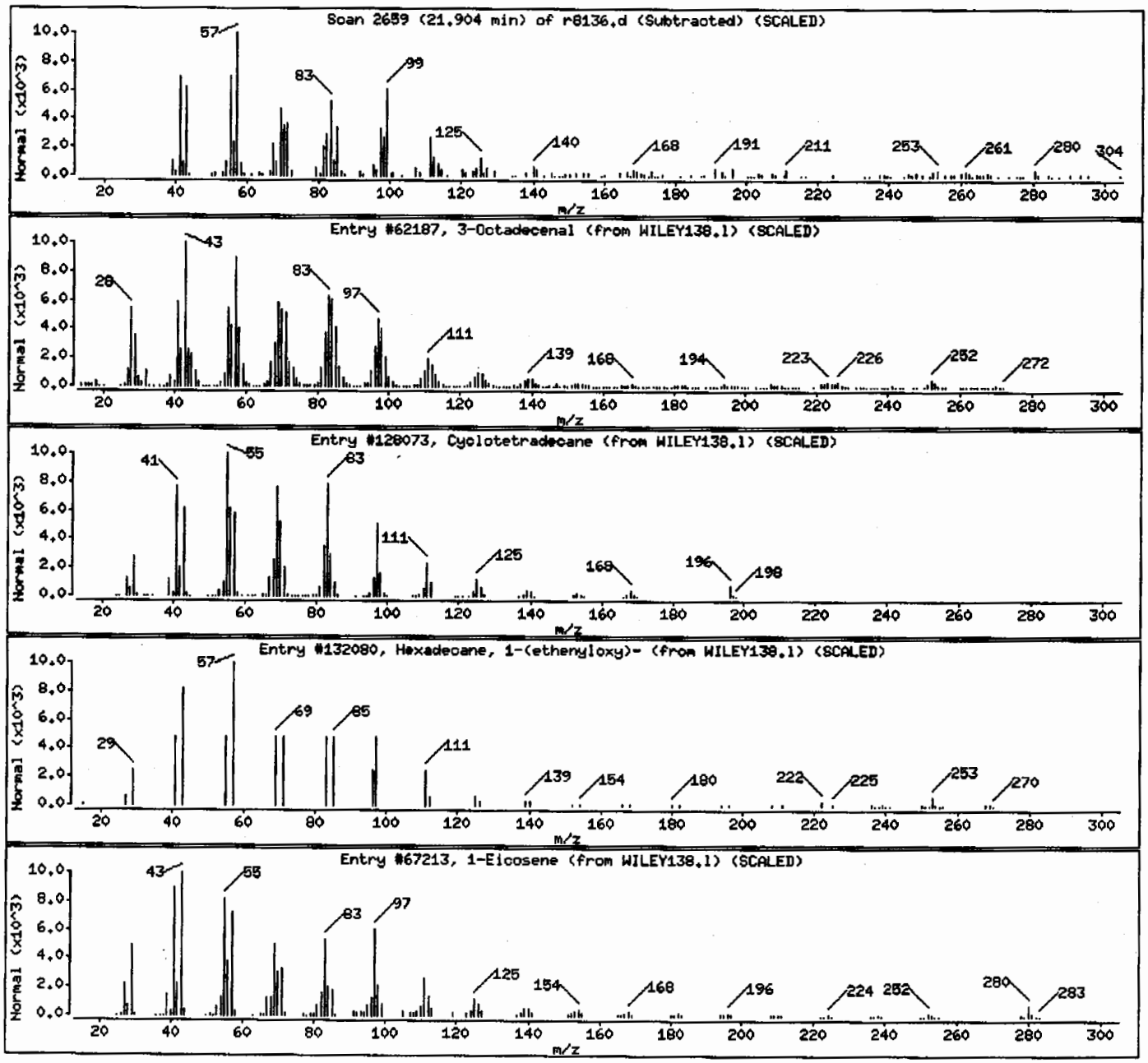
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Octadecenal	56554-99-5	WILEY138.1	62187	52	C18H340	266
Cyclotetradecane	295-17-0	WILEY138.1	128073	49	C14H28	196
Hexadecane, 1-(ethenyloxy)-	822-28-6	WILEY138.1	132080	42	C18H360	268
1-Eicosene	3452-07-1	WILEY138.1	67213	41	C20H40	280



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

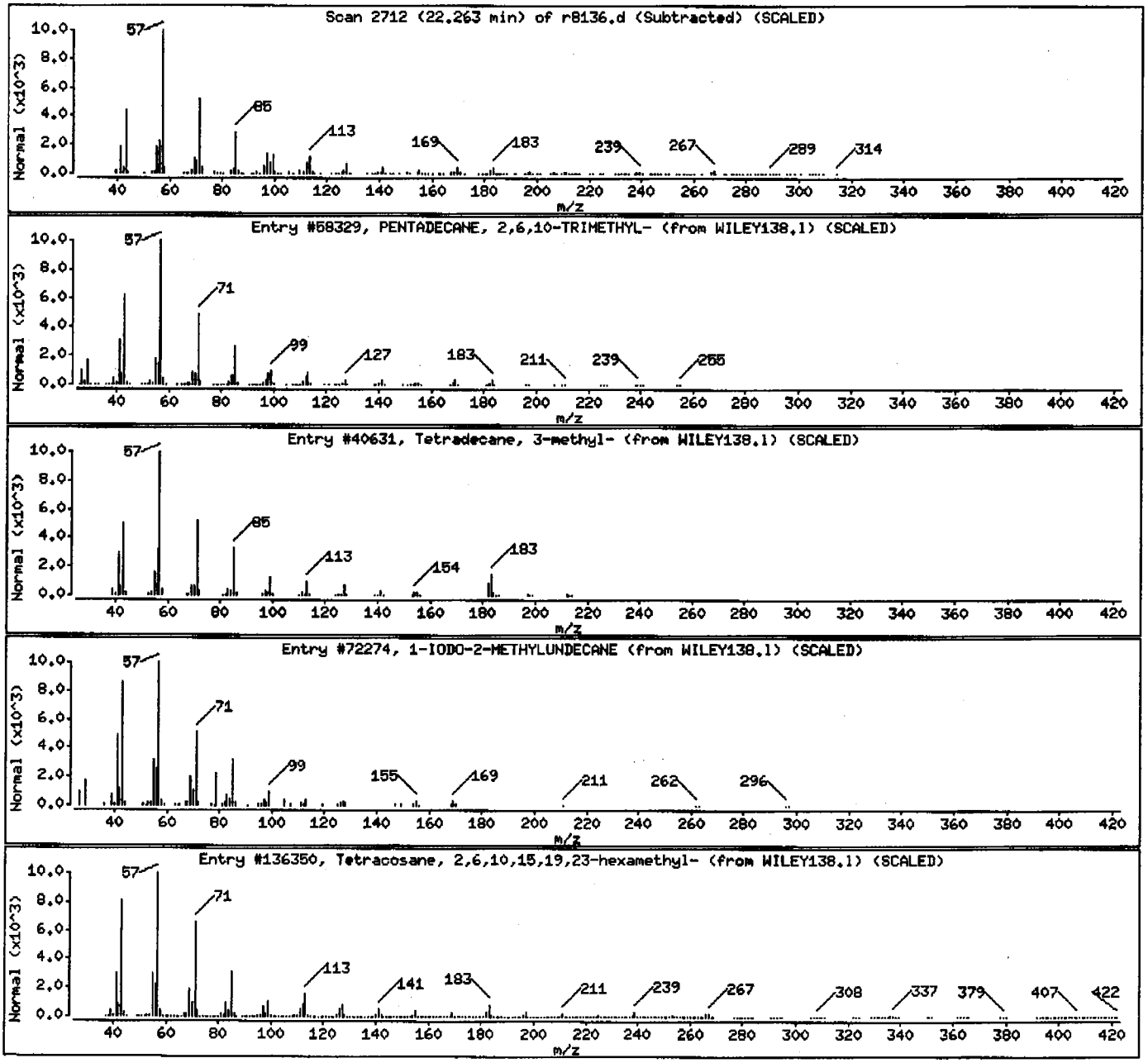
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
PENTADECANE, 2,6,10-TRIMETHYL-	0-00-0	WILEY138.1	58329	90	C18H38	254
Tetradecane, 3-methyl-	18435-22-8	WILEY138.1	40631	87	C15H32	212
1-IODO-2-METHYLUNDECANE	73105-67-6	WILEY138.1	72274	87	C12H25I	296
Tetracosane, 2,6,10,15,19,23-hexamethyl-	111-01-3	WILEY138.1	136350	86	C30H62	422



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

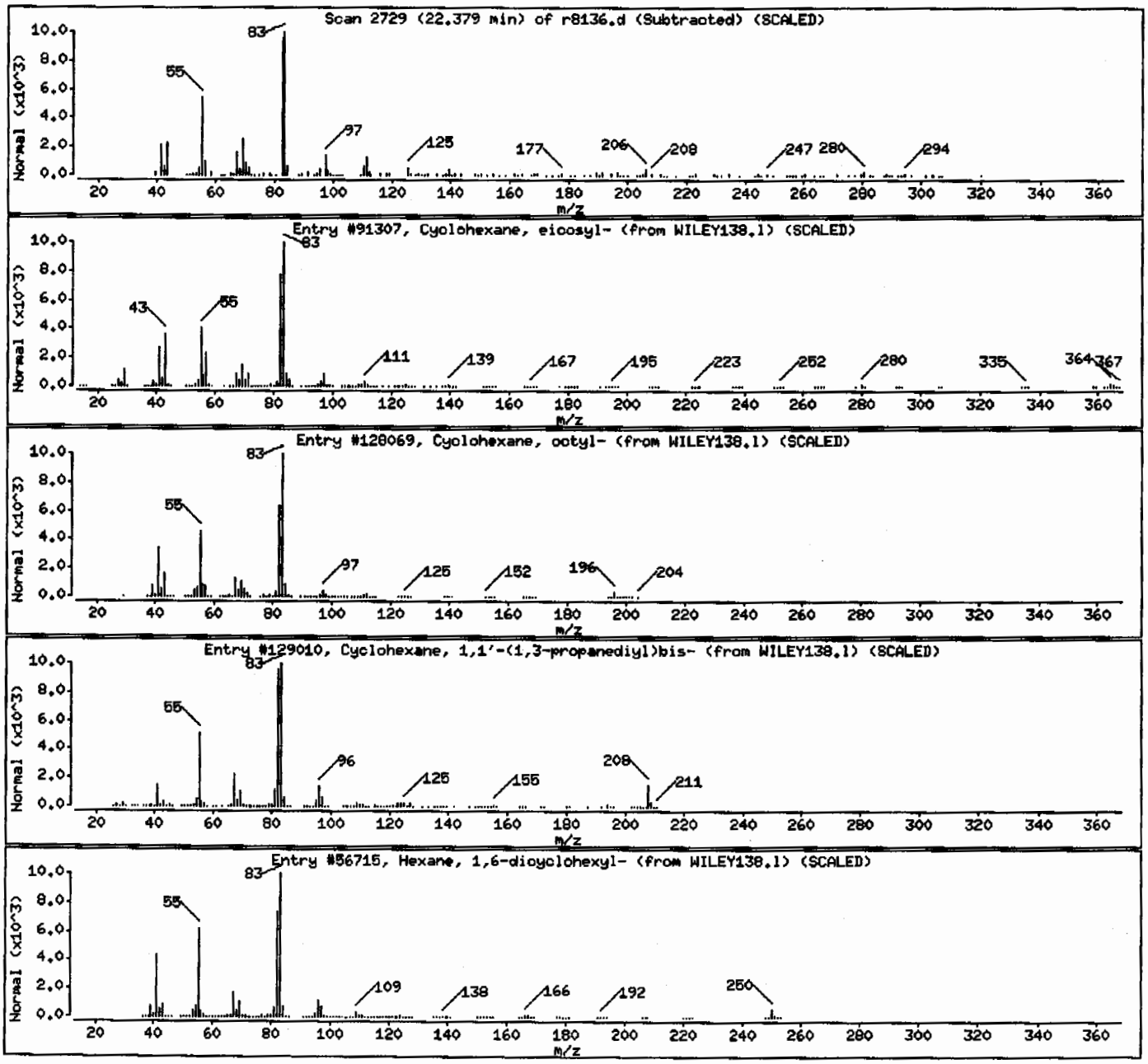
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, eicosyl-	4443-55-4	WILEY138.1	91307	72	C26H52	364
Cyclohexane, octyl-	1795-15-9	WILEY138.1	128069	72	C14H28	196
Cyclohexane, 1,1'-(1,3-propanediyl)bis-	3178-24-3	WILEY138.1	129010	72	C15H28	208
Hexane, 1,6-dicyclohexyl-	1610-23-7	WILEY138.1	56715	64	C18H34	250



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

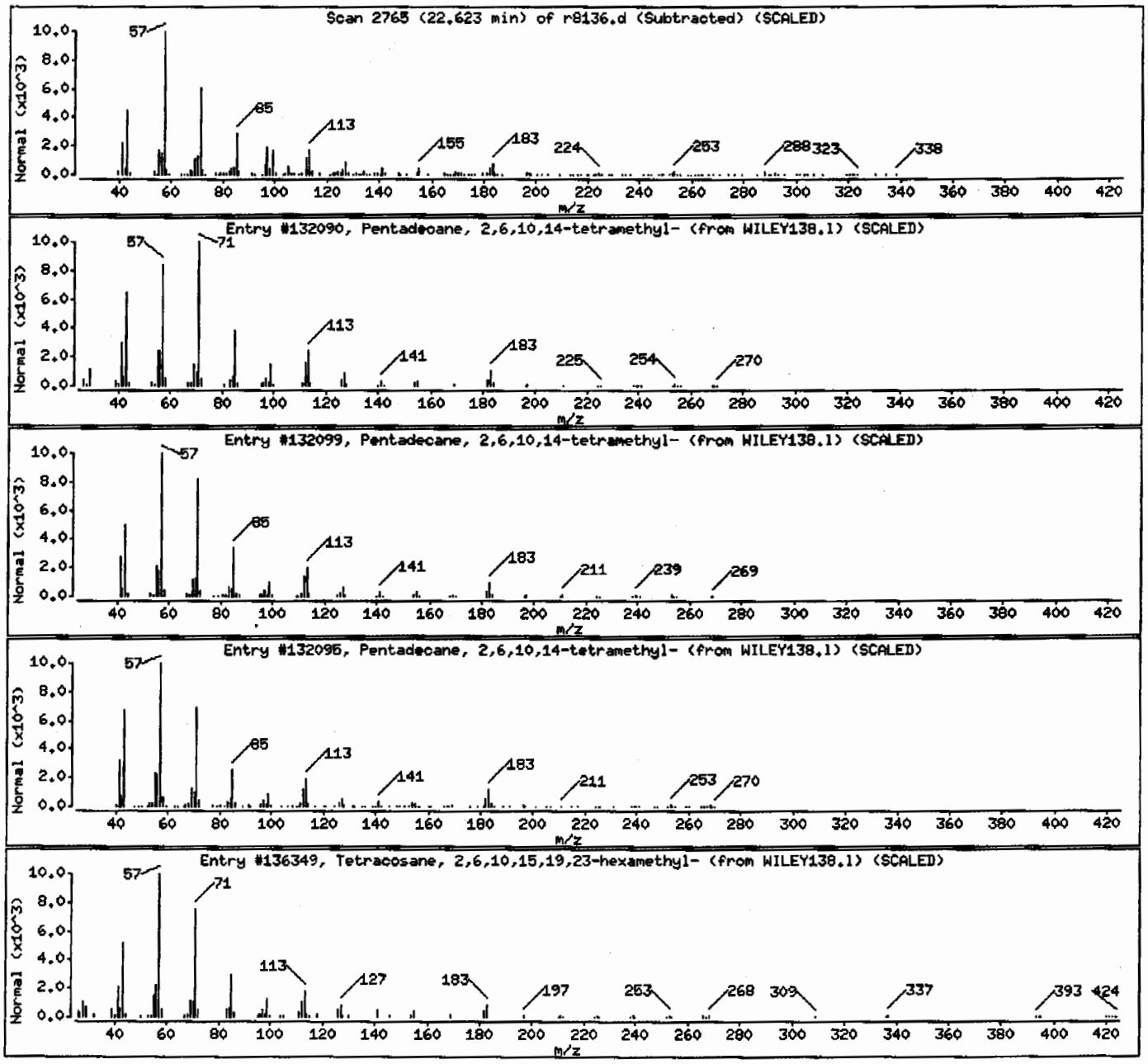
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	WILEY138.1	132090	98	C19H40	268
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	WILEY138.1	132099	97	C19H40	268
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	WILEY138.1	132095	90	C19H40	268
Tetracosane, 2,6,10,15,19,23-hexamethyl-	111-01-3	WILEY138.1	136349	81	C30H62	422



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

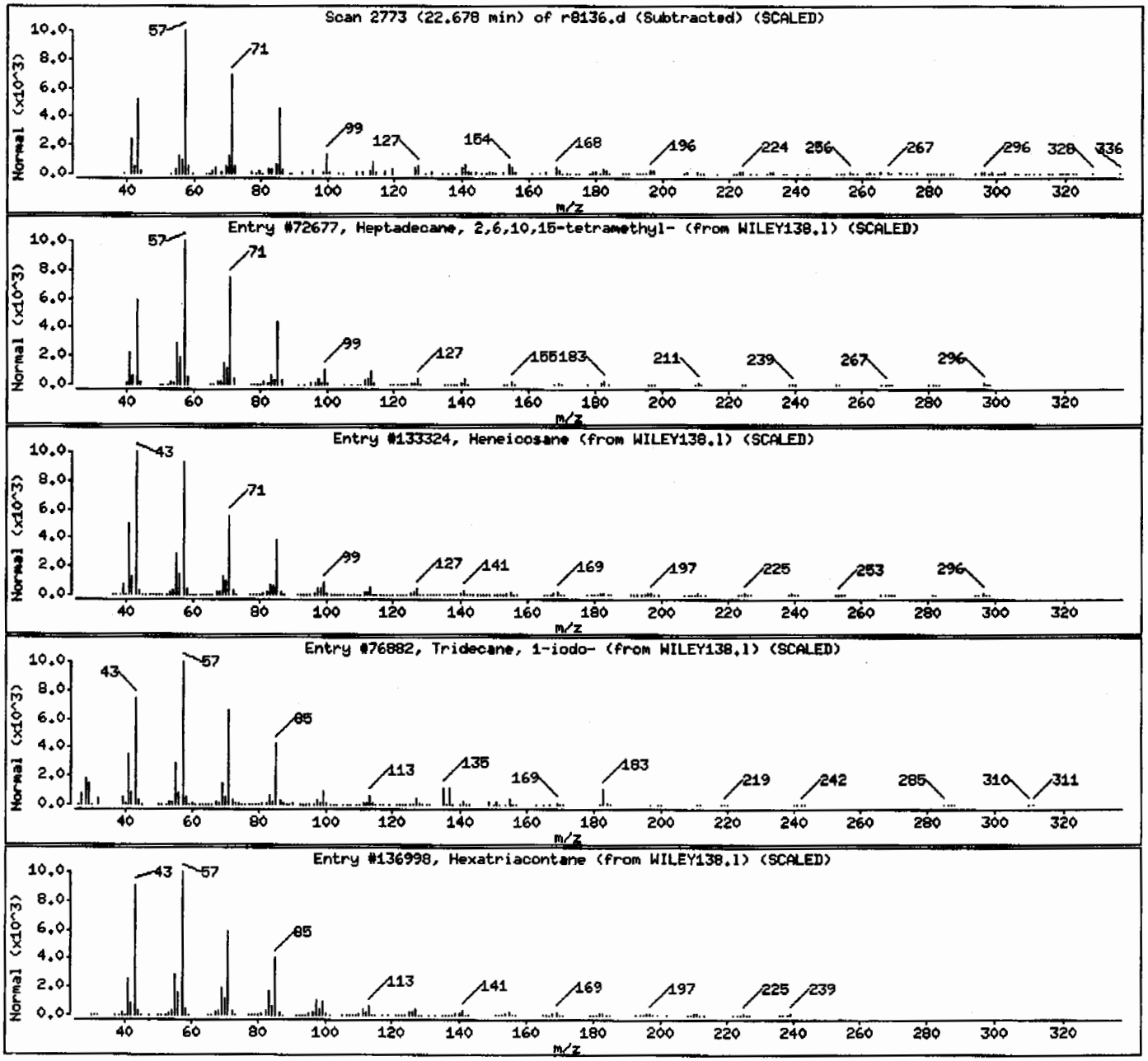
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	WILEY138.1	72677	91	C21H44	296
Heneicosane	629-94-7	WILEY138.1	133324	90	C21H44	296
Tridecane, 1-iodo-	35599-77-0	WILEY138.1	76882	87	C13H27I	310
Hexatriacontane	630-06-8	WILEY138.1	136998	86	C36H74	507



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

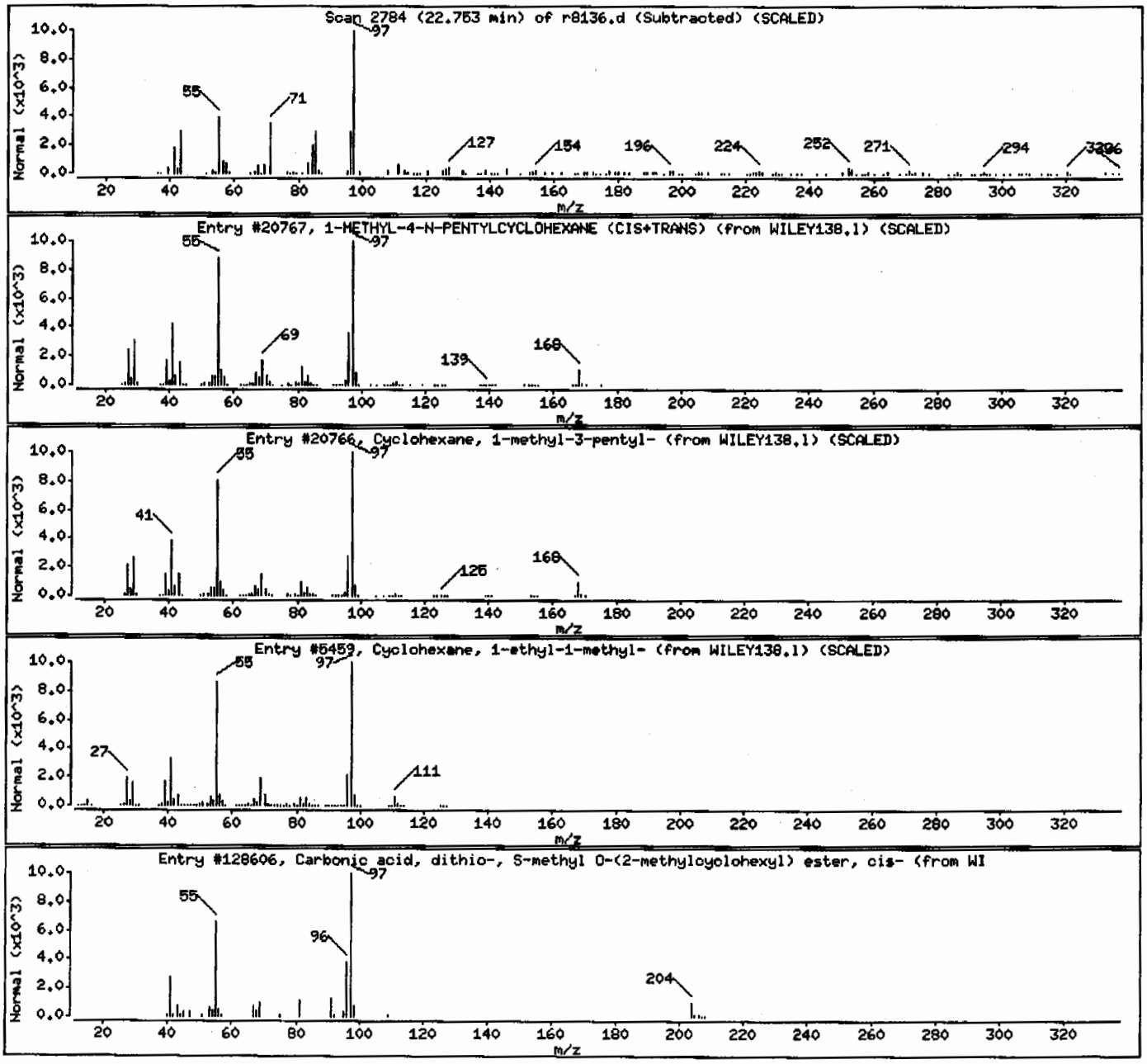
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-METHYL-4-N-PENTYLCYCLOHEXANE (CIS+TRAN	0-00-0	WILEY138.1	20767	43	C12H24	168
Cyclohexane, 1-methyl-3-pentyl-	54411-02-8	WILEY138.1	20766	37	C12H24	168
Cyclohexane, 1-ethyl-1-methyl-	4926-90-3	WILEY138.1	5459	37	C9H18	126
Carbonic acid, dithio-, S-methyl O-(2-me	15288-12-7	WILEY138.1	128606	25	C9H16OS2	204



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

Client ID: HA-02-08-0-6

Instrument: BNAMS1.i

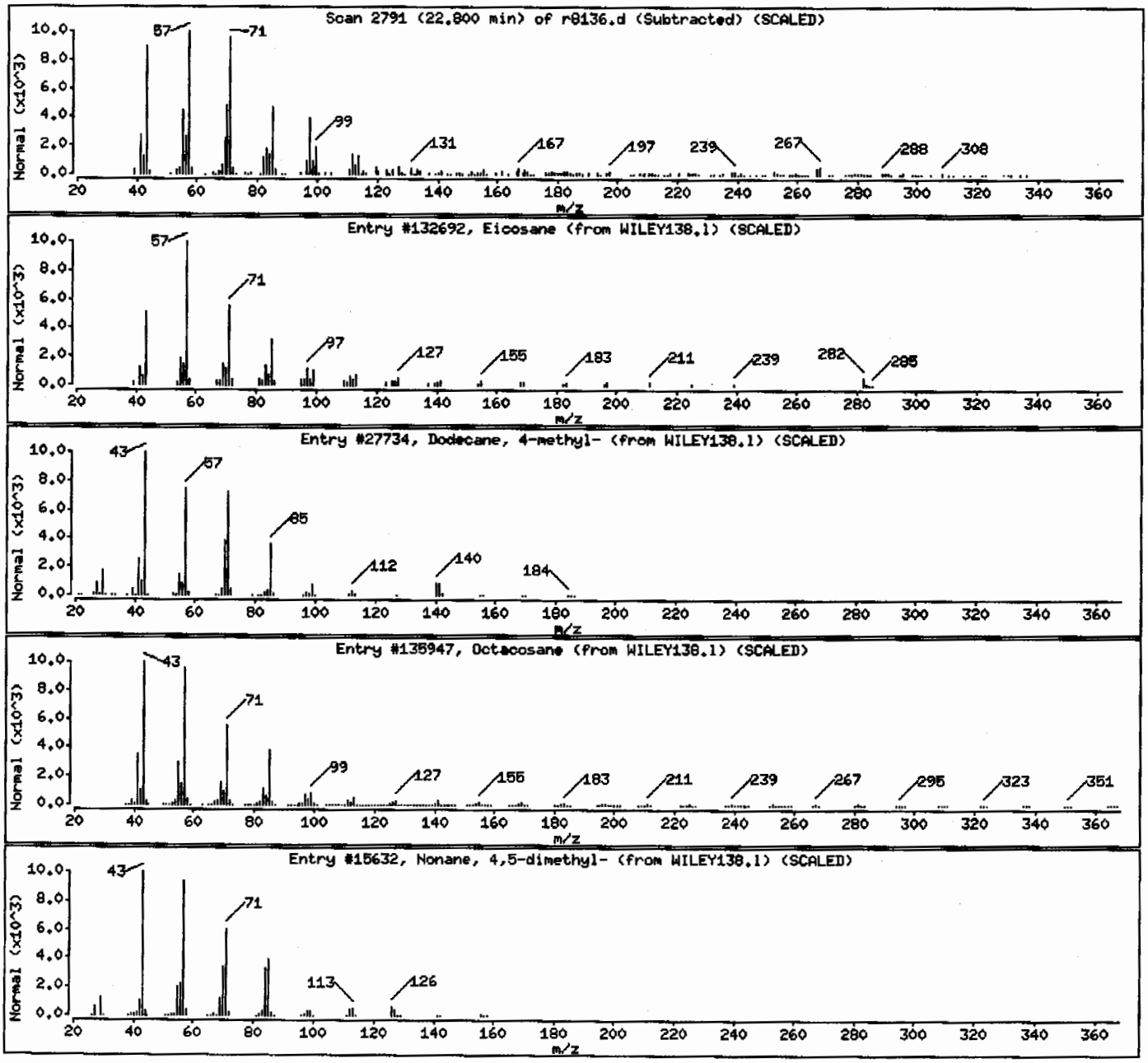
Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Eicosane	112-95-8	WILEY138.1	132692	64	C20H42	282
Dodecane, 4-methyl-	6117-97-1	WILEY138.1	27734	62	C13H28	184
Octacosane	630-02-4	WILEY138.1	135947	62	C28H58	394
Nonane, 4,5-dimethyl-	17302-23-7	WILEY138.1	15632	62	C11H24	156



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

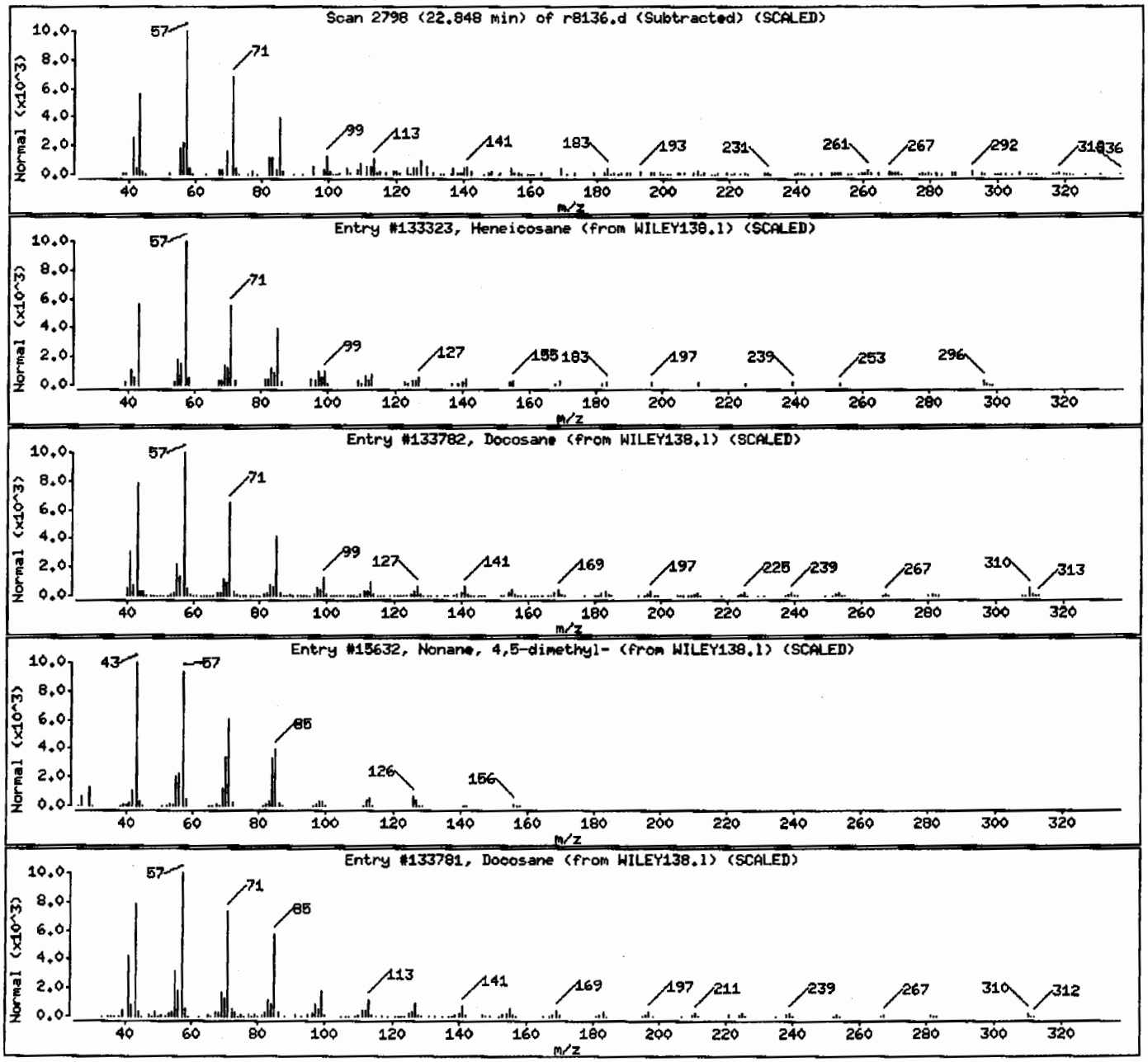
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heneicosane	629-94-7	WILEY138.1	133323	91	C21H44	296
Docosane	629-97-0	WILEY138.1	133782	91	C22H46	310
Nonane, 4,5-dimethyl-	17302-23-7	WILEY138.1	15632	86	C11H24	156
Docosane	629-97-0	WILEY138.1	133781	81	C22H46	310



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

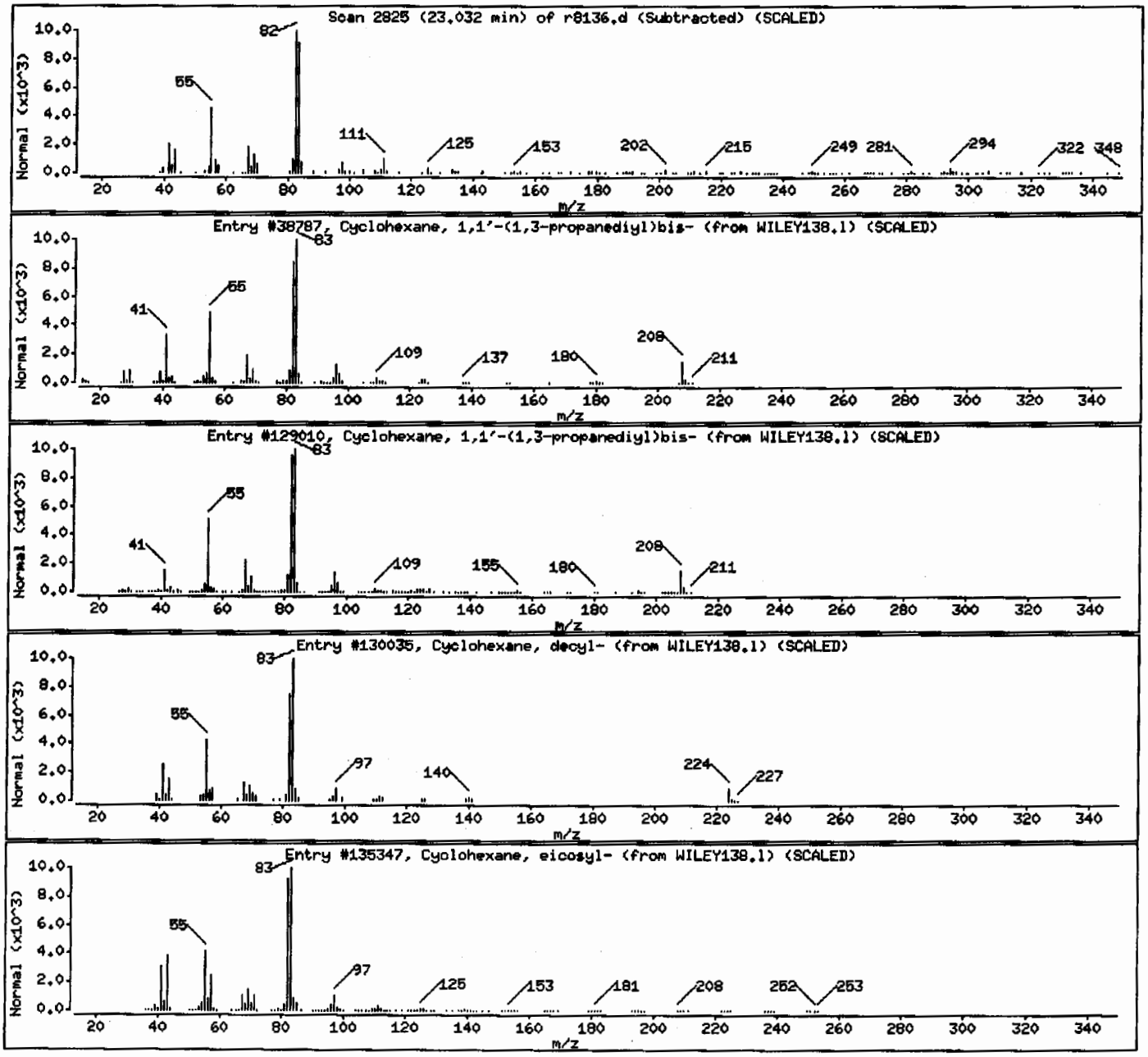
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1,1'-(1,3-propanediyl)bis-	3178-24-3	WILEY138.1	38787	83	C15H28	208
Cyclohexane, 1,1'-(1,3-propanediyl)bis-	3178-24-3	WILEY138.1	129010	74	C15H28	208
Cyclohexane, decyl-	1795-16-0	WILEY138.1	130035	53	C16H32	224
Cyclohexane, eicosyl-	4443-55-4	WILEY138.1	135347	53	C26H52	364



Data File: /chem/BNAHS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

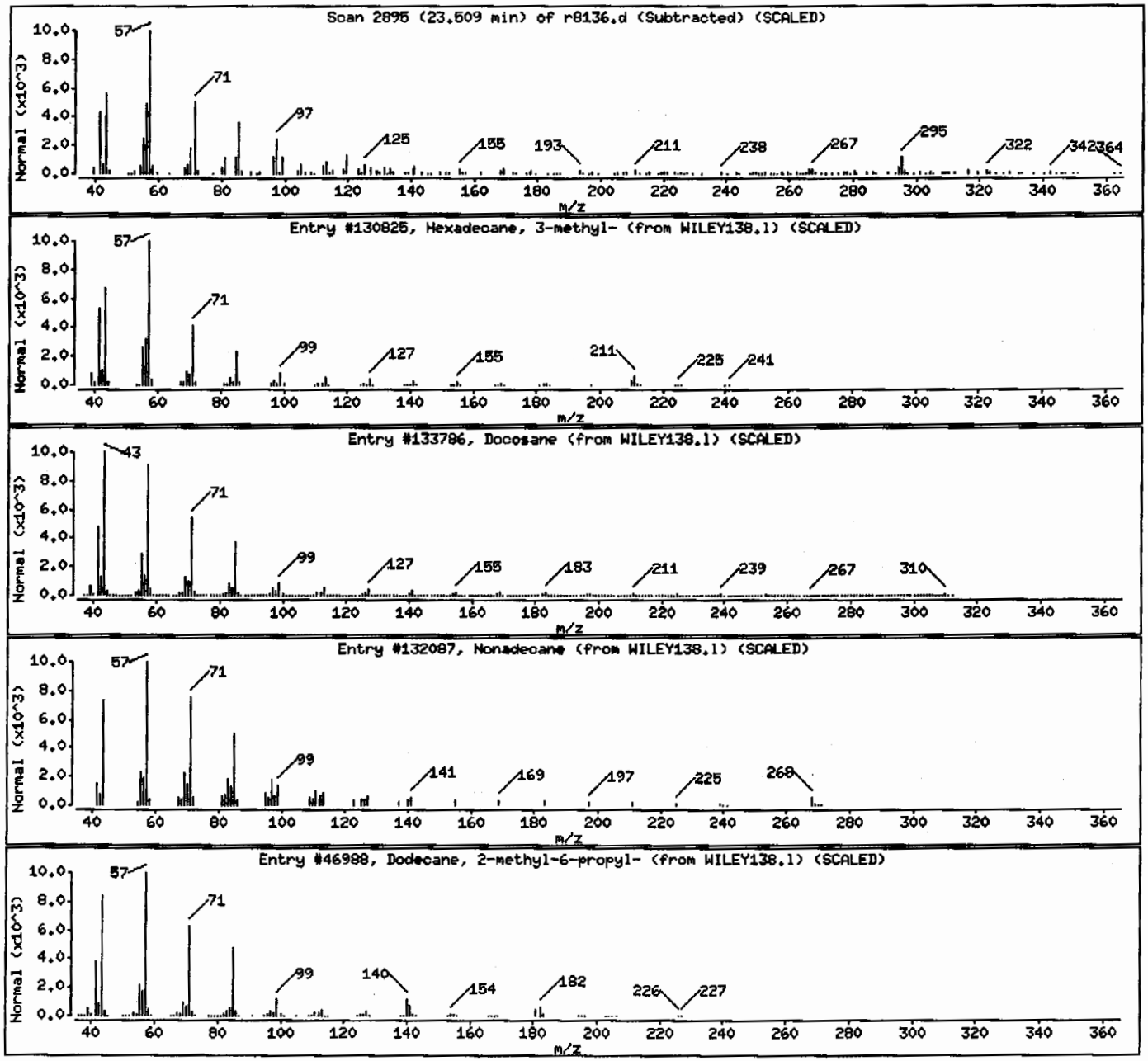
Client ID: HA-02-08-0-6 Instrument: BNAHS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Hexadecane, 3-methyl-	6418-43-5	WILEY138.1	130825	58	C17H36	240
Docosane	629-97-0	WILEY138.1	133786	43	C22H46	310
Nonadecane	629-92-5	WILEY138.1	132087	38	C19H40	268
Dodecane, 2-methyl-6-propyl-	55045-08-4	WILEY138.1	46988	38	C16H34	226



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

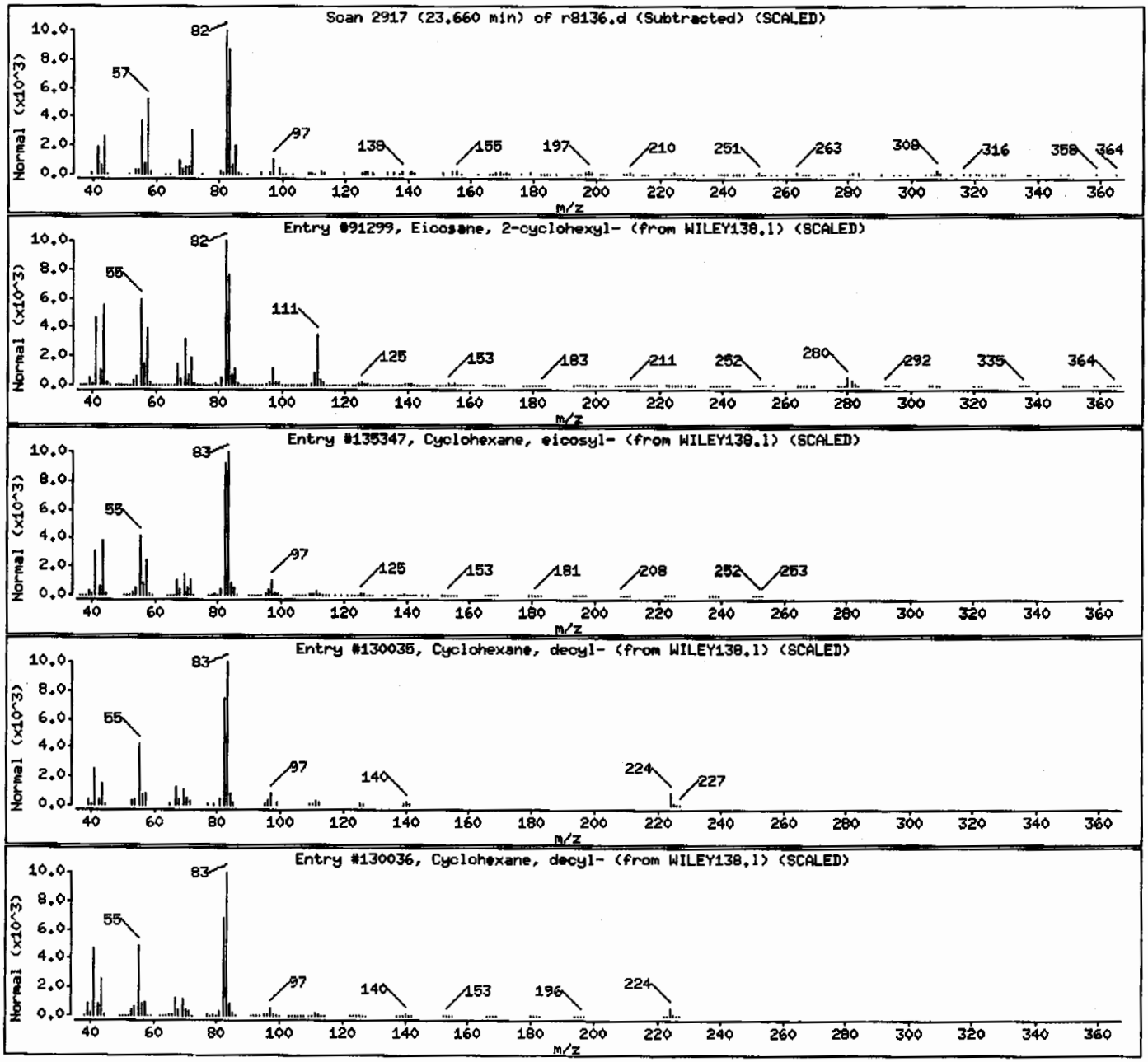
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Eicosane, 2-cyclohexyl-	4443-56-5	WILEY138.1	91299	72	C26H52	364
Cyclohexane, eicosyl-	4443-55-4	WILEY138.1	135347	47	C26H52	364
Cyclohexane, decyl-	1795-16-0	WILEY138.1	130035	47	C16H32	224
Cyclohexane, decyl-	1795-16-0	WILEY138.1	130036	43	C16H32	224



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

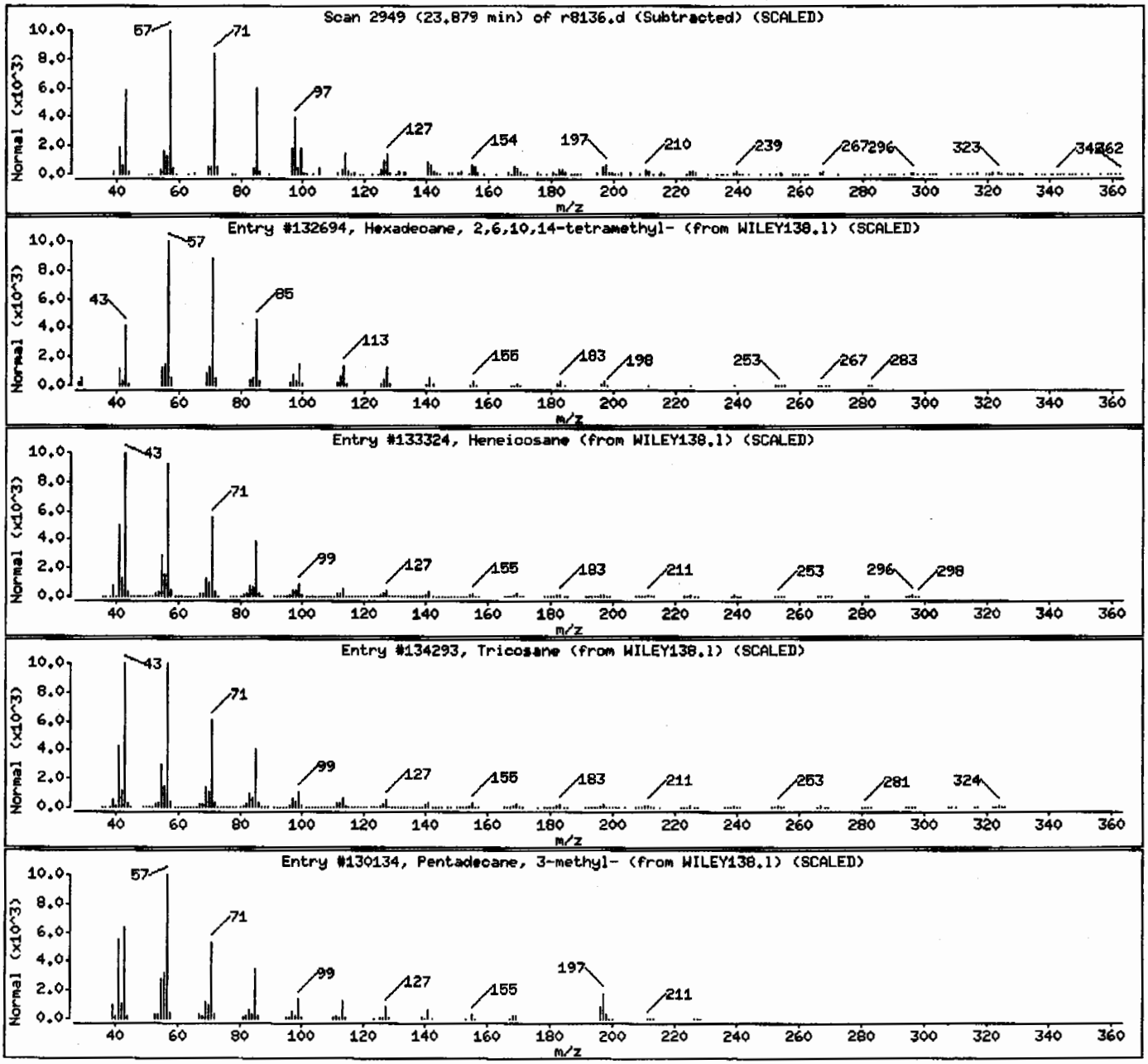
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	WILEY138.1	132694	78	C20H42	282
Heneicosane	629-94-7	WILEY138.1	133324	70	C21H44	296
Tricosane	638-67-5	WILEY138.1	134293	62	C23H48	324
Pentadecane, 3-methyl-	2882-96-4	WILEY138.1	130134	58	C16H34	226



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

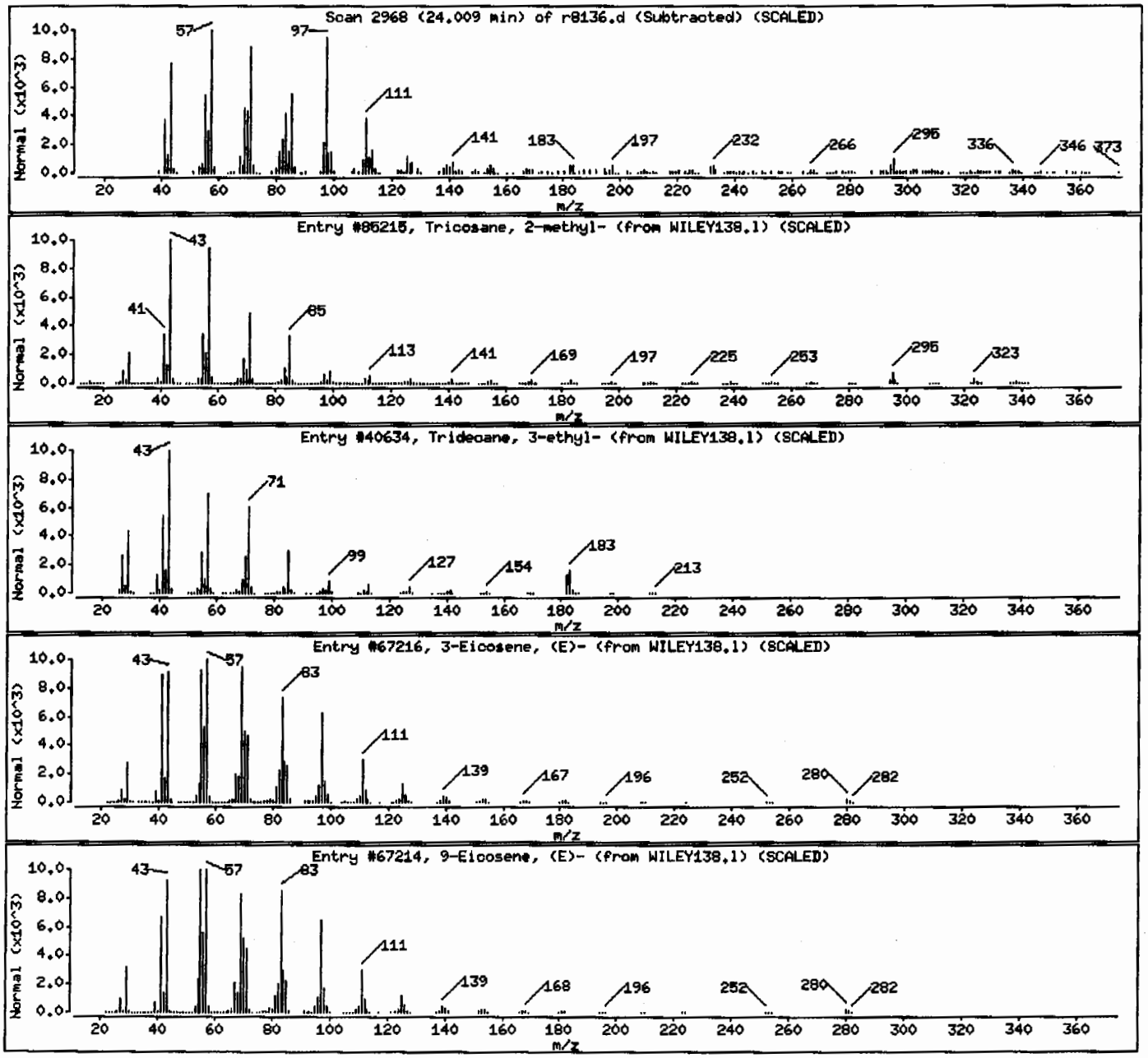
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tricosane, 2-methyl-	1928-30-9	WILEY138.1	85215	41	C24H50	338
Tridecane, 3-ethyl-	13286-73-2	WILEY138.1	40634	41	C15H32	212
3-Eicosene, (E)-	74685-33-9	WILEY138.1	67216	38	C20H40	280
9-Eicosene, (E)-	74685-29-3	WILEY138.1	67214	38	C20H40	280



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

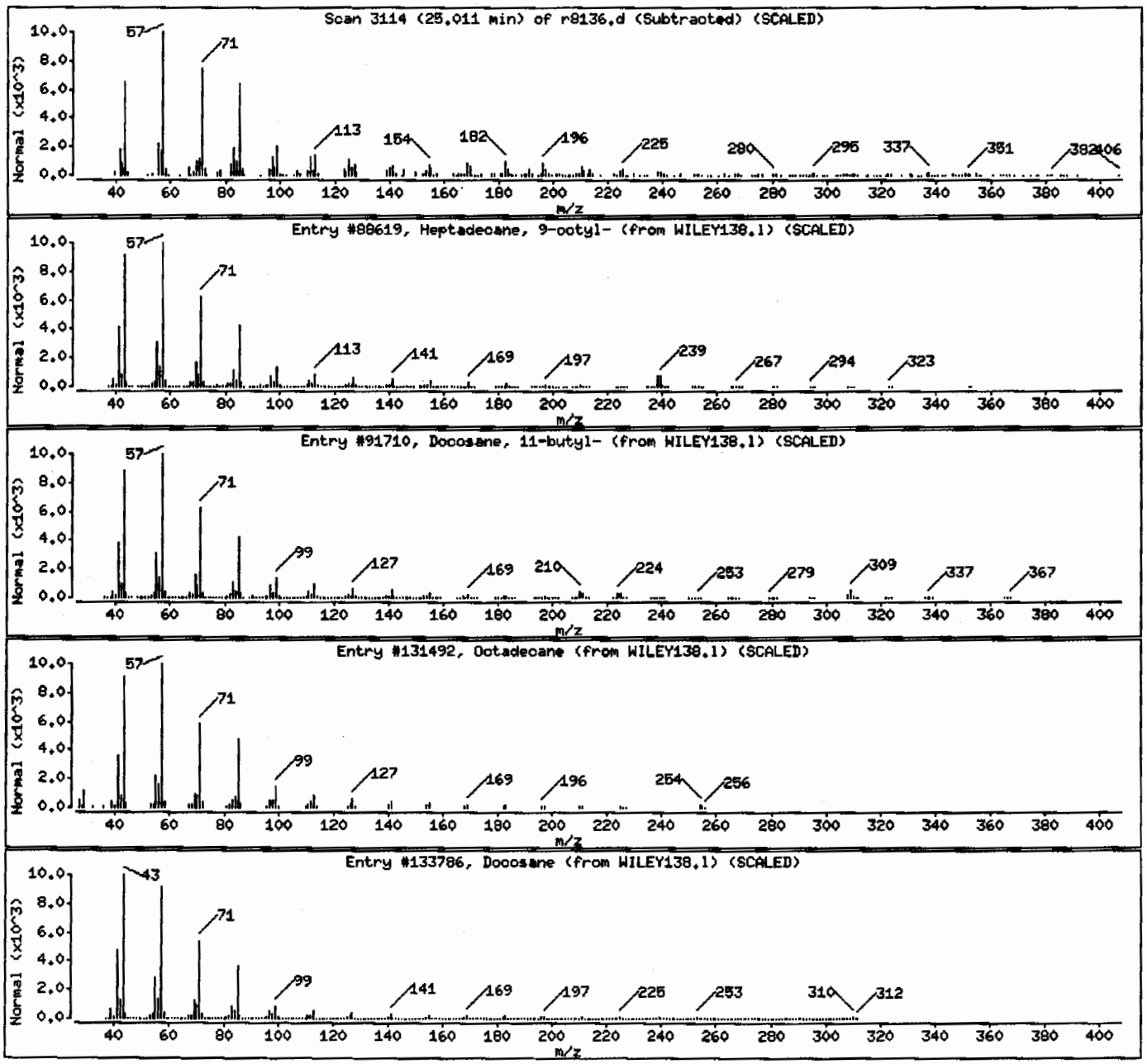
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heptadecane, 9-octyl-	7225-64-1	WILEY138.1	88619	93	C25H52	352
Docosane, 11-butyl-	13475-76-8	WILEY138.1	91710	93	C26H54	366
Octadecane	593-45-3	WILEY138.1	131492	89	C18H38	254
Docosane	629-97-0	WILEY138.1	133786	89	C22H46	310



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8136.d

Date : 08-DEC-2002 10:30

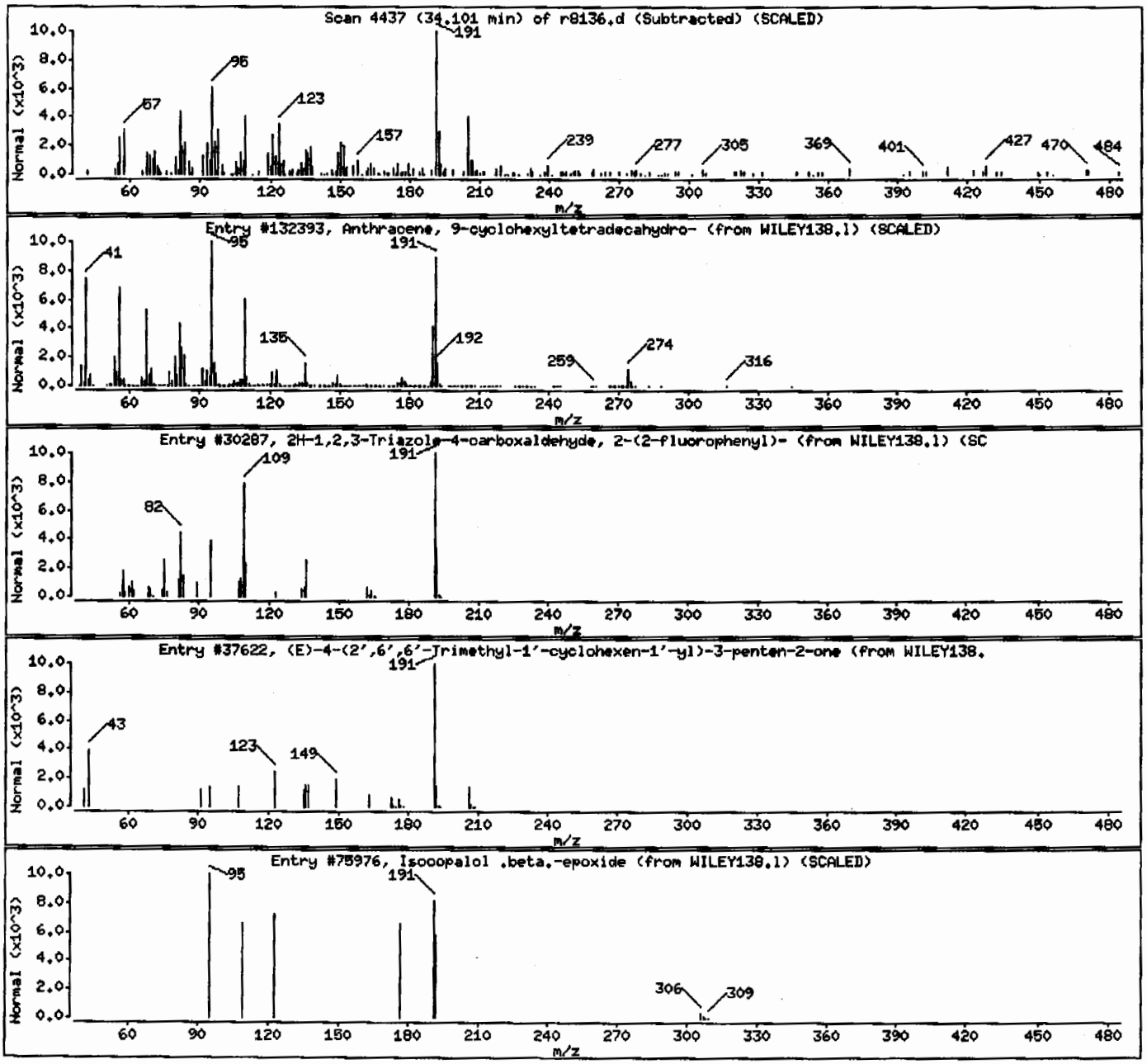
Client ID: HA-02-08-0-6 Instrument: BNAMS1.i

Sample Info: 392317;888402

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Anthracene, 9-cyclohexyltetradecahydro-	55255-70-4	WILEY138.l	132393	47	C20H34	274
2H-1,2,3-Triazole-4-carboxaldehyde, 2-(2	51306-43-5	WILEY138.l	30287	45	C9H6FN3O	191
(E)-4-(2',6',6'-Trimethyl-1'-cyclohexen-	89128-17-6	WILEY138.l	37622	42	C14H22O	206
Isocopalol .beta.-epoxide	72264-56-3	WILEY138.l	75976	38	C20H34O2	306



Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8109.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	390
2-Chlorophenol	ND	390
2-Methylphenol	ND	390
4-Methylphenol	ND	390
2-Nitrophenol	ND	390
2,4-Dimethylphenol	ND	390
2,4-Dichlorophenol	ND	390
4-Chloro-3-methylphenol	ND	390
2,4,6-Trichlorophenol	ND	390
2,4,5-Trichlorophenol	ND	390
2,4-Dinitrophenol	ND	1600
4-Nitrophenol	ND	1600
4,6-Dinitro-2-methylphenol	ND	1600
Pentachlorophenol	ND	1600

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8109.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	39
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
1,2-Dichlorobenzene	ND	390
bis(2-chloroisopropyl)ether	ND	390
N-Nitroso-di-n-propylamine	ND	39
Hexachloroethane	ND	39
Nitrobenzene	ND	39
Isophorone	ND	390
bis(2-Chloroethoxy)methane	ND	390
1,2,4-Trichlorobenzene	ND	39
Naphthalene	ND	390
4-Chloroaniline	ND	390
Hexachlorobutadiene	ND	78
2-Methylnaphthalene	ND	390
Hexachlorocyclopentadiene	ND	390
2-Chloronaphthalene	ND	390
2-Nitroaniline	ND	780
Dimethylphthalate	ND	390
Acenaphthylene	14 J	390
2,6-Dinitrotoluene	ND	78
3-Nitroaniline	ND	780
Acenaphthene	ND	390
Dibenzofuran	ND	390
2,4-Dinitrotoluene	ND	78
Diethylphthalate	ND	390
4-Chlorophenyl-phenylether	ND	390
Fluorene	ND	390
4-Nitroaniline	ND	780
N-Nitrosodiphenylamine	ND	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	39
Phenanthrene	50 J	390
Anthracene	14 J	390

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8109.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	390
Di-n-butylphthalate	ND	390
Fluoranthene	110 J	390
Pyrene	100 J	390
Butylbenzylphthalate	ND	390
3,3'-Dichlorobenzidine	ND	780
Benzo(a)anthracene	ND	39
Chrysene	68 J	390
bis(2-Ethylhexyl)phthalate	ND	390
Di-n-octylphthalate	ND	390
Benzo(b)fluoranthene	72	39
Benzo(k)fluoranthene	30 J	39
Benzo(a)pyrene	50	39
Indeno(1,2,3-cd)pyrene	32 J	39
Dibenz(a,h)anthracene	ND	39
Benzo(g,h,i)perylene	30 J	390

Client ID: **HA-02-04-0-6**
Site: Earle NWS Closure

Lab Sample No: **392318**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8109.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Benzoic acid	14.77	370	
2. Unknown	27.34	730	
3. Unknown Alkane	27.91	720	
4. Unknown	29.70	620	
5. Unknown Alkane	30.50	880	
6. Unknown	33.19	710	
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 4030

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d
Report Date: 07-Dec-2002 10:22

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d
Lab Smp Id: 392318 Client Smp ID: HA-02-04-0-6
Inj Date : 06-DEC-2002 15:59
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392318;888437
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/06dec02.b/8270c1.m
Meth Date : 06-Dec-2002 08:53 czhao Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	15.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.641	10.620	(0.814)	2743542	78.4325	6200
$ 17 Phenol-d5 (SUR)	99	12.434	12.438	(0.951)	3184176	81.5251	6400
* 79 1,4-Dichlorobenzene-d4	152	13.076	13.081	(1.000)	735910	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.032	14.041	(0.920)	1223511	41.0802	3200
* 80 Naphthalene-d8	136	15.257	15.264	(1.000)	3051491	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.052	17.056	(0.937)	2457159	41.3058	3200
39 Acenaphthylene	152	17.950	17.966	(0.987)	13120	0.17723	14(a)
* 82 Acenaphthene-d10	164	18.193	18.203	(1.000)	1828229	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.499	19.510	(1.072)	648725	68.4956	5400
* 83 Phenanthrene-d10	188	20.669	20.677	(1.000)	3561386	40.0000	
52 Phenanthrene	178	20.702	20.717	(1.002)	54936	0.64297	50(a)
53 Anthracene	178	20.788	20.803	(1.006)	16185	0.18363	14(a)
56 Fluoranthene	202	22.676	22.689	(1.097)	135770	1.46028	110(a)
57 Pyrene	202	23.053	23.072	(0.918)	117473	1.31625	100(a)

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d
Report Date: 07-Dec-2002 10:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 78 Terphenyl-d14 (SUR)	244	23.291	23.296	(0.928)	2378491	42.5591	3300
* 81 Chrysene-d12	240	25.103	25.120	(1.000)	2603295	40.0000	
62 Chrysene	228	25.143	25.173	(1.002)	57202	0.86185	68(a)
65 Benzo(b)fluoranthene	252	27.543	27.582	(0.958)	71229	0.92006	72(H)
66 Benzo(k)fluoranthene	252	27.602	27.675	(0.960)	27440	0.37939	30(aM)
67 Benzo(a)pyrene	252	28.512	28.577	(0.992)	45106	0.63695	50
* 84 Perylene-d12	264	28.745	28.762	(1.000)	2732554	40.0000	
68 Indeno(1,2,3-cd)pyrene	276	32.980	33.101	(1.147)	30531	0.40235	32(aM)
70 Benzo(g,h,i)perylene	276	34.323	34.485	(1.194)	29823	0.38218	30(aM)

QC Flag Legend

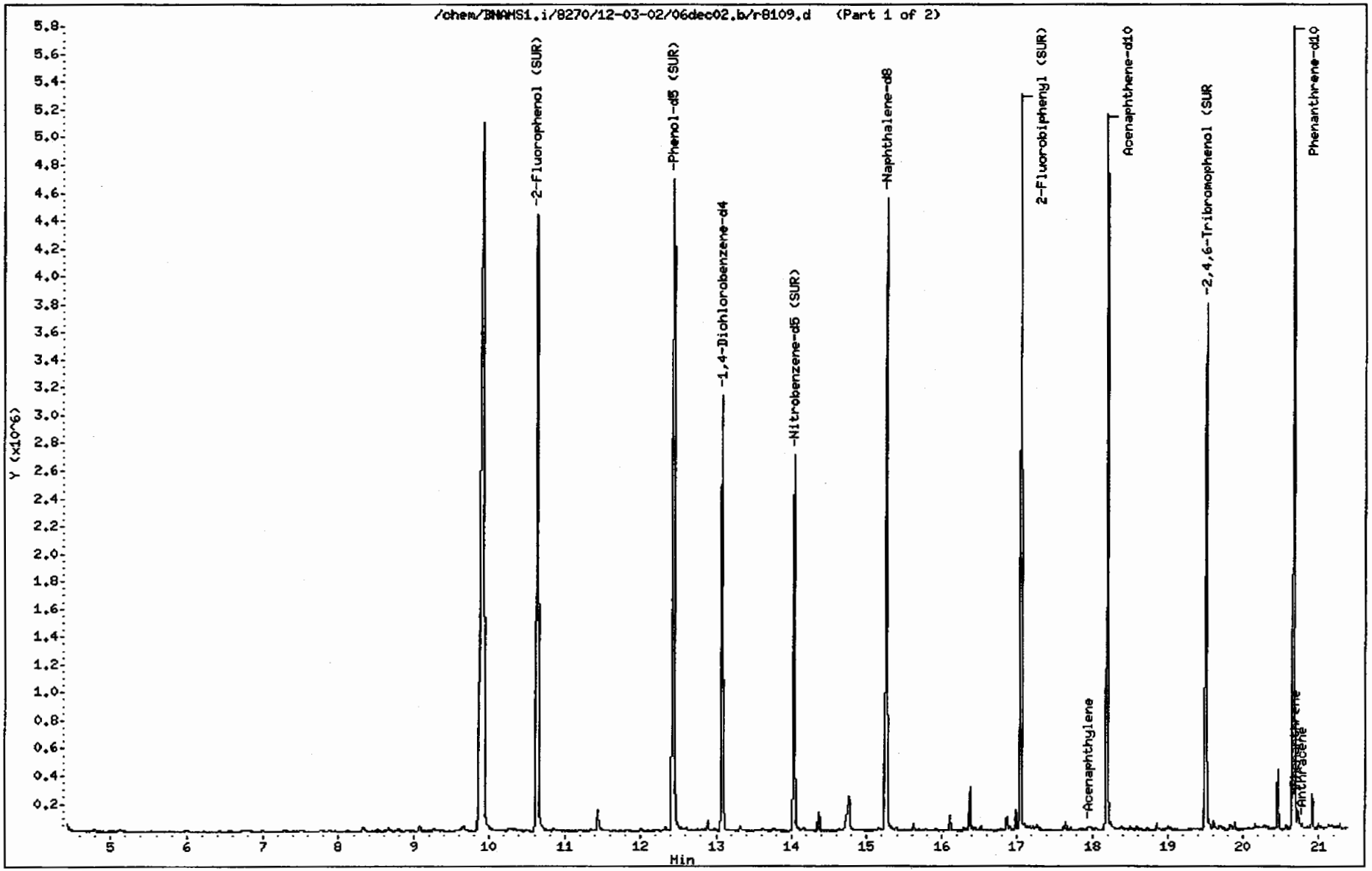
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d
Date : 06-DEC-2002 15:59
Client ID: HA-02-04-0-6
Sample Info: 392318;888437

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5

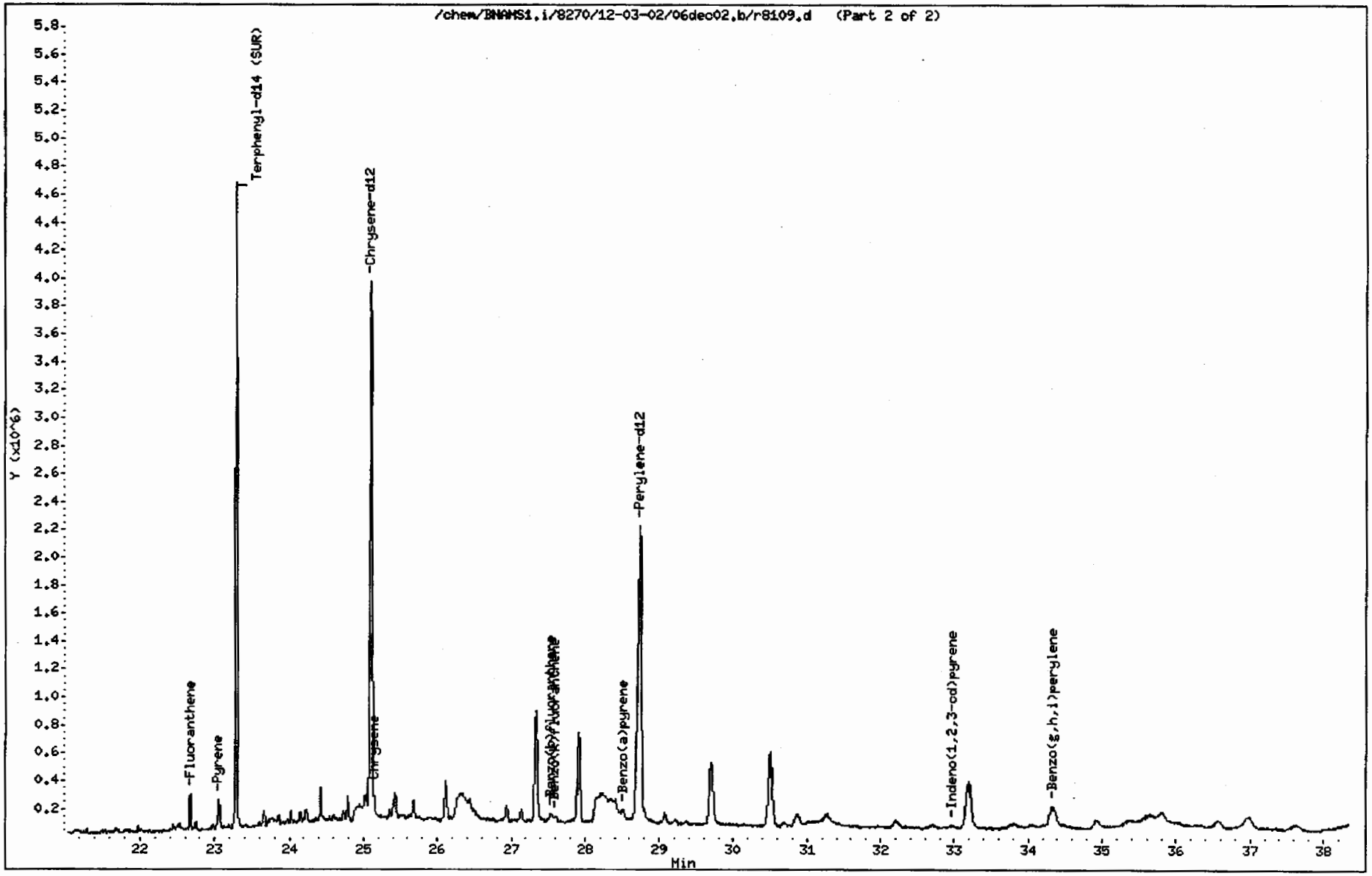


Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d
Date : 06-DEC-2002 15:59
Client ID: HA-02-04-0-6
Sample Info: 392318;888437

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

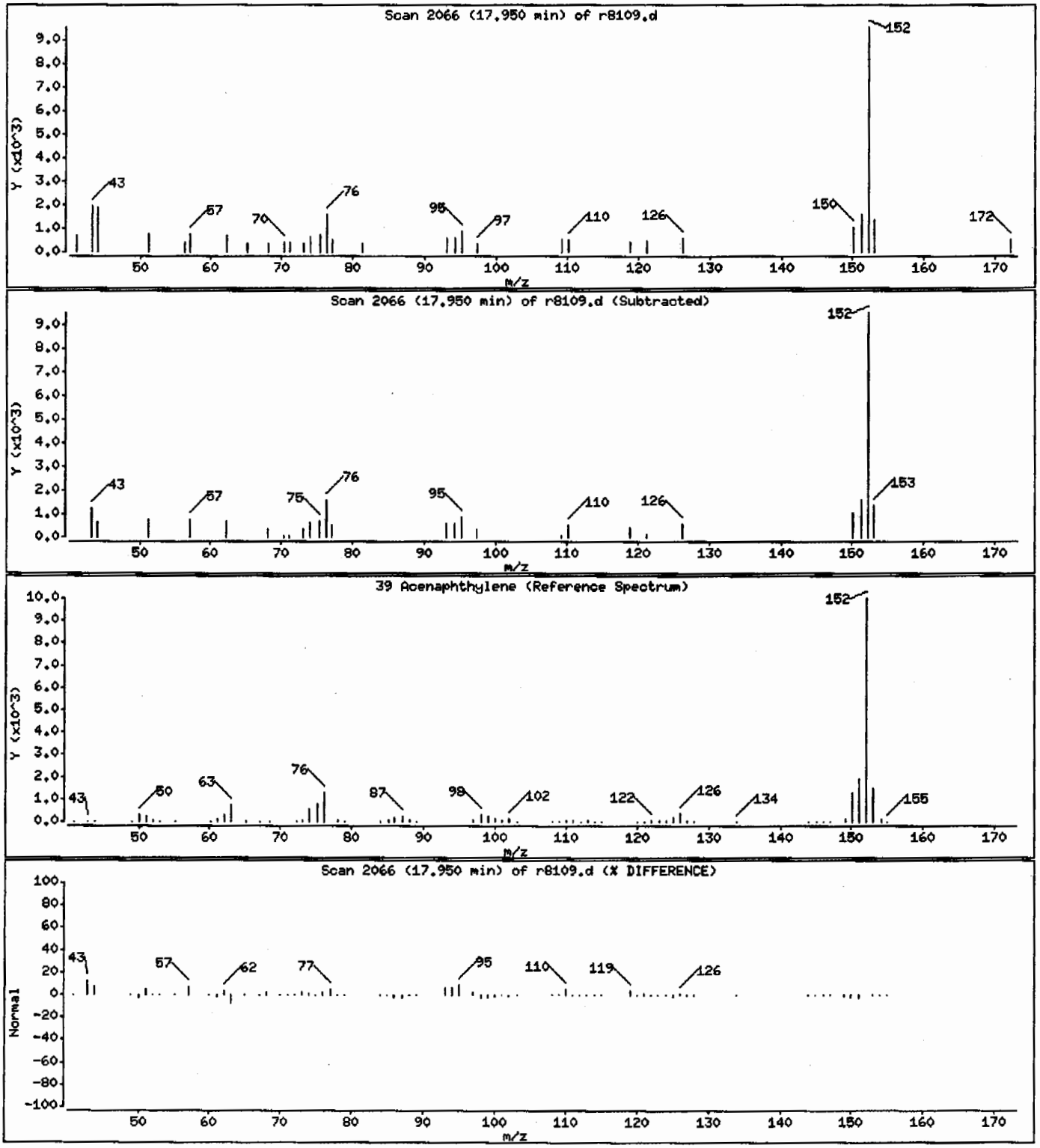
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

39 Acenaphthylene Concentration: 14 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

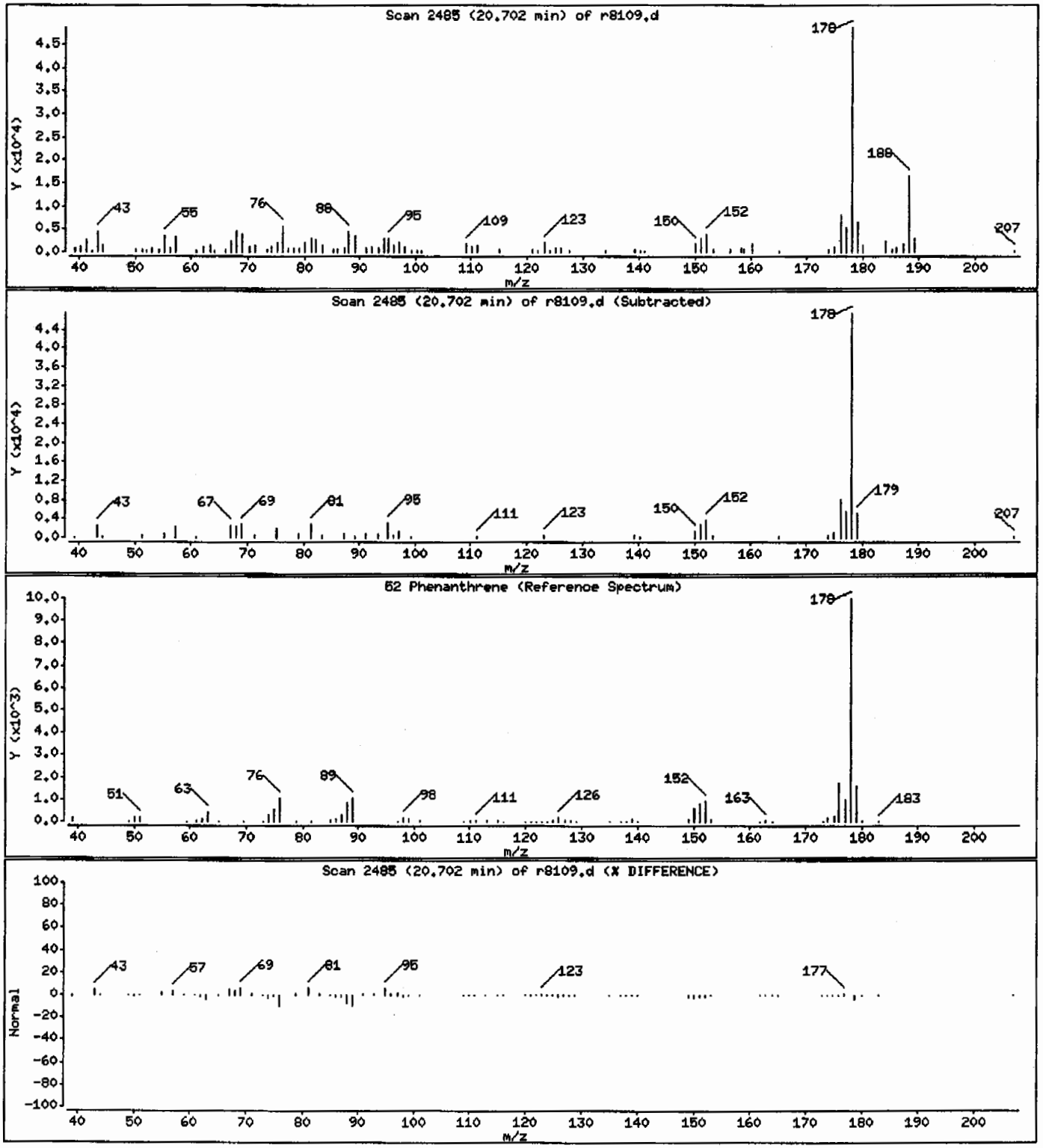
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

52 Phenanthrene Concentration: 50 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

Client ID: HA-02-04-0-6

Instrument: BNAMS1.i

Sample Info: 392318;888437

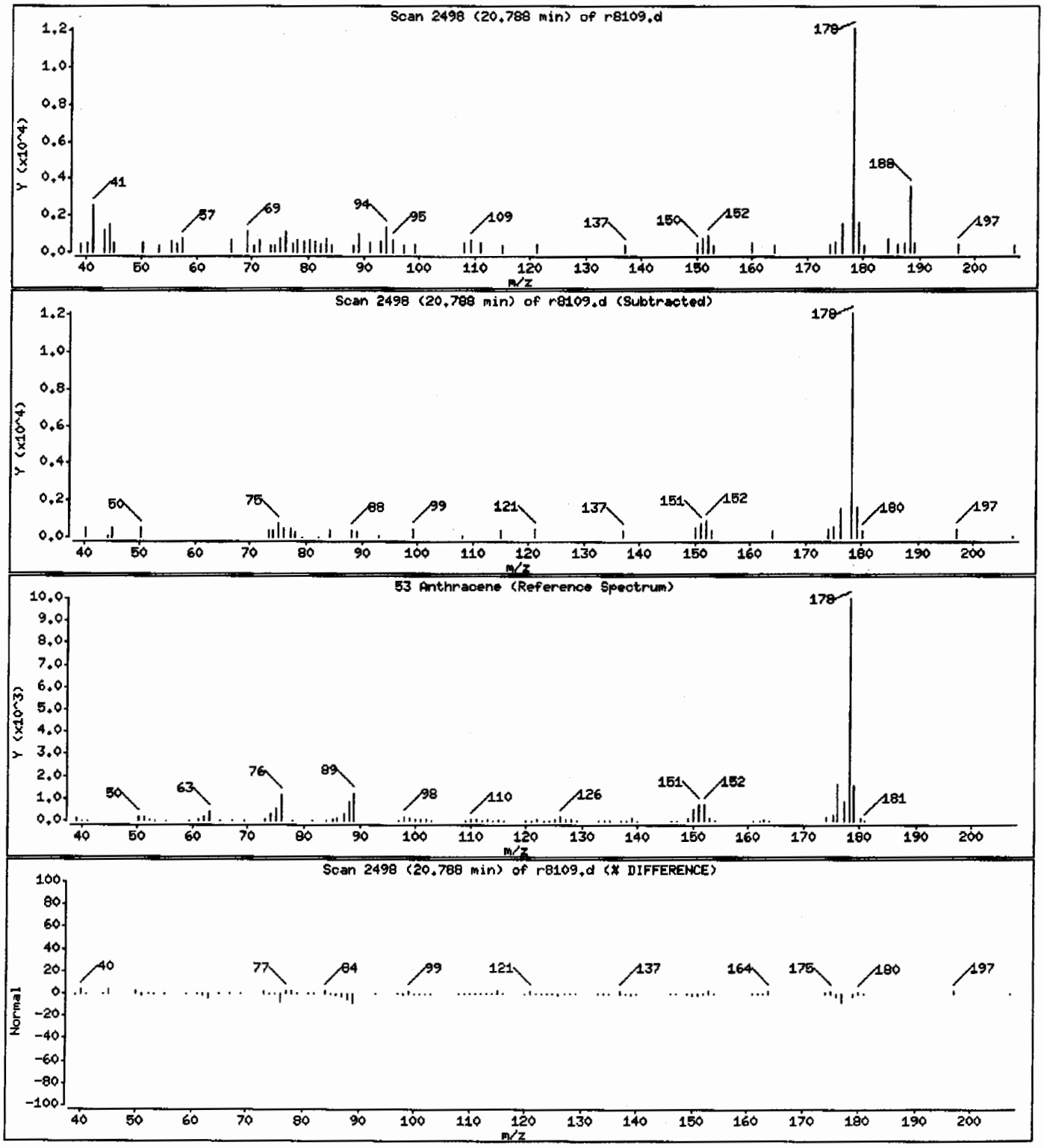
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

53 Anthracene

Concentration: 14 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

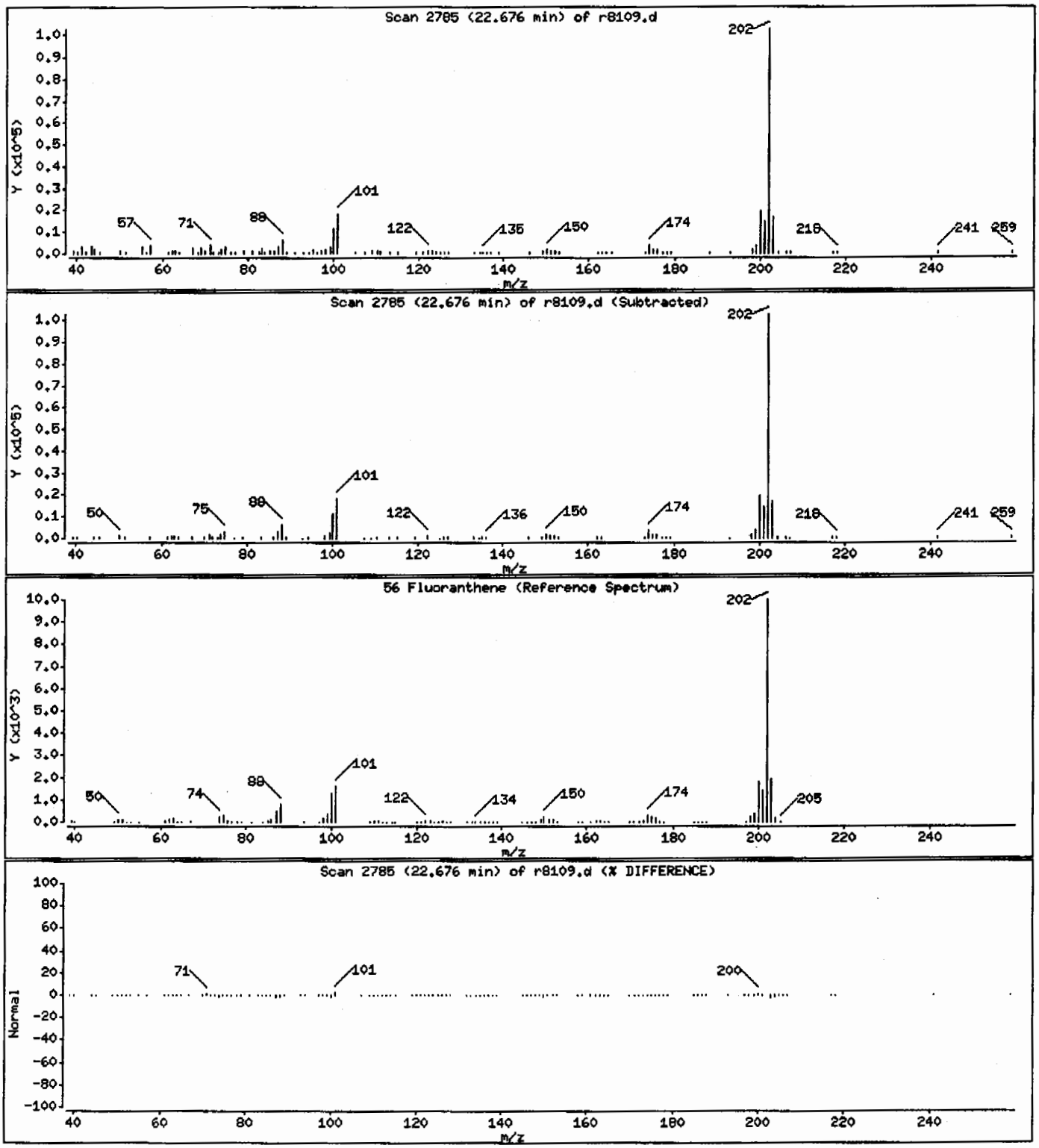
Client ID: MA-02-04-0-6 | Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 | Column diameter: 0.25

56 Fluoranthene | Concentration: 110 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

Client ID: HA-02-04-0-6

Instrument: BNAMS1.i

Sample Info: 392318;888437

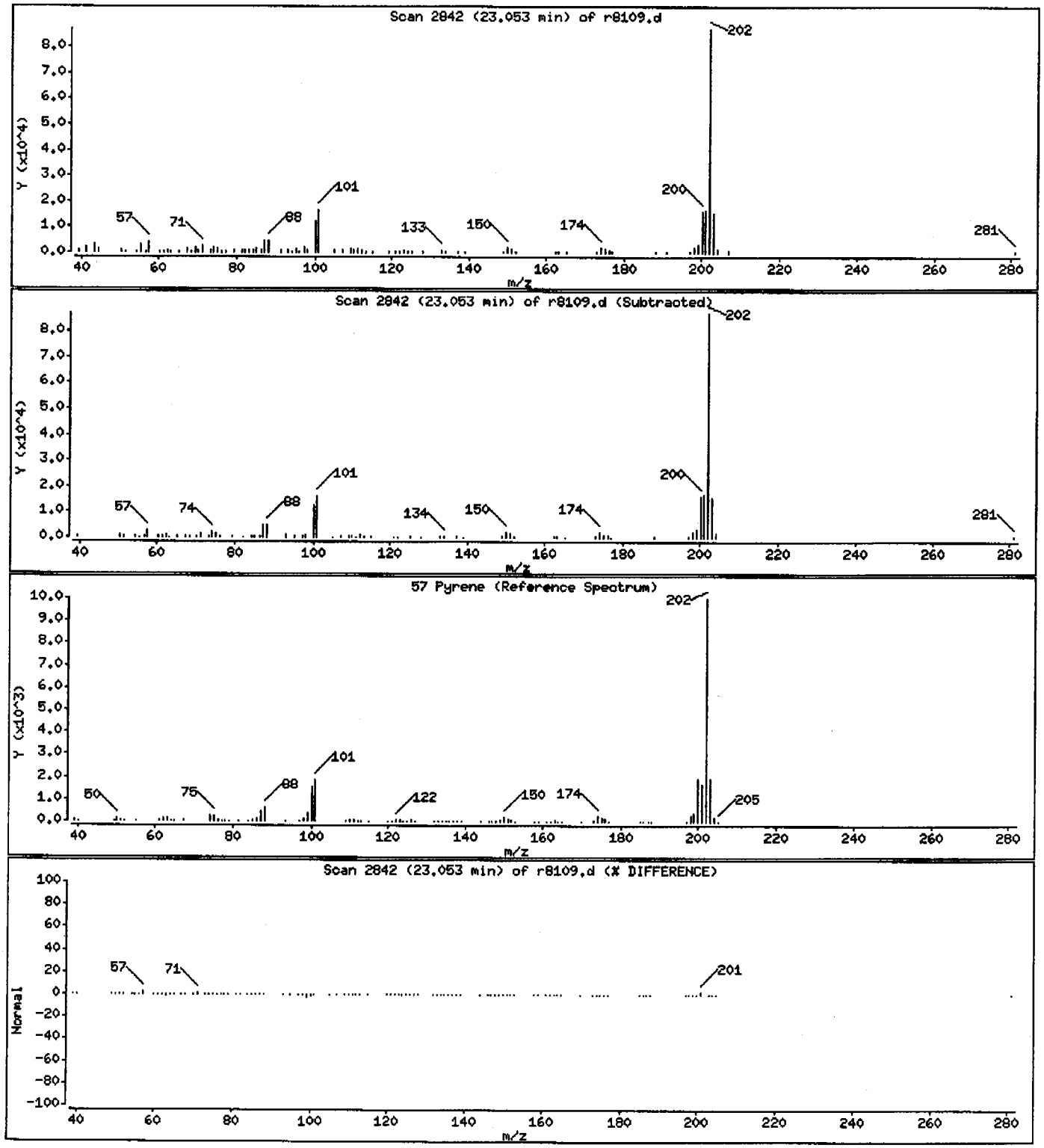
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 100 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

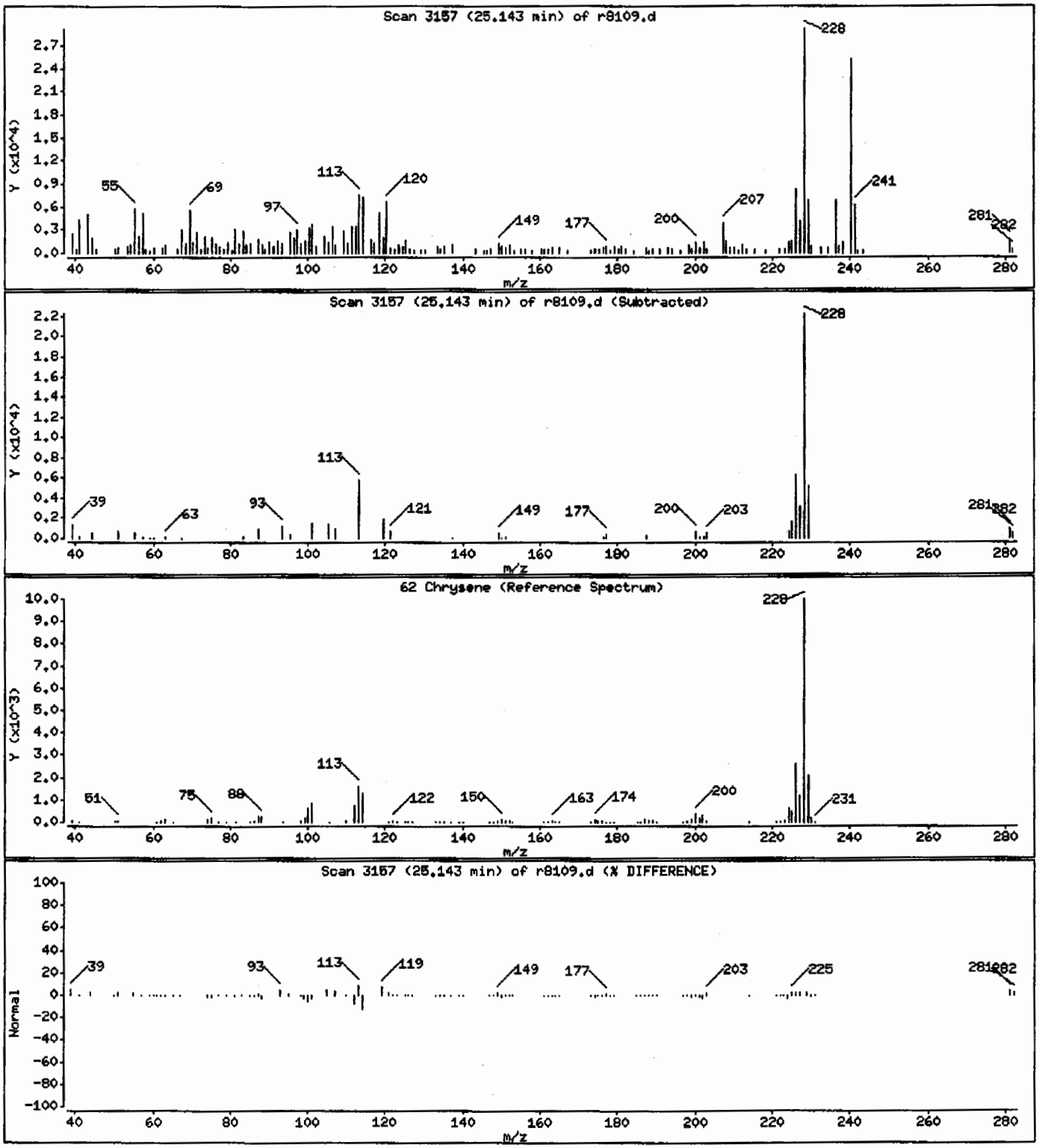
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

62 Chrysene Concentration: 68 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

Client ID: HA-02-04-0-6

Instrument: BNAMS1.i

Sample Info: 392318;888437

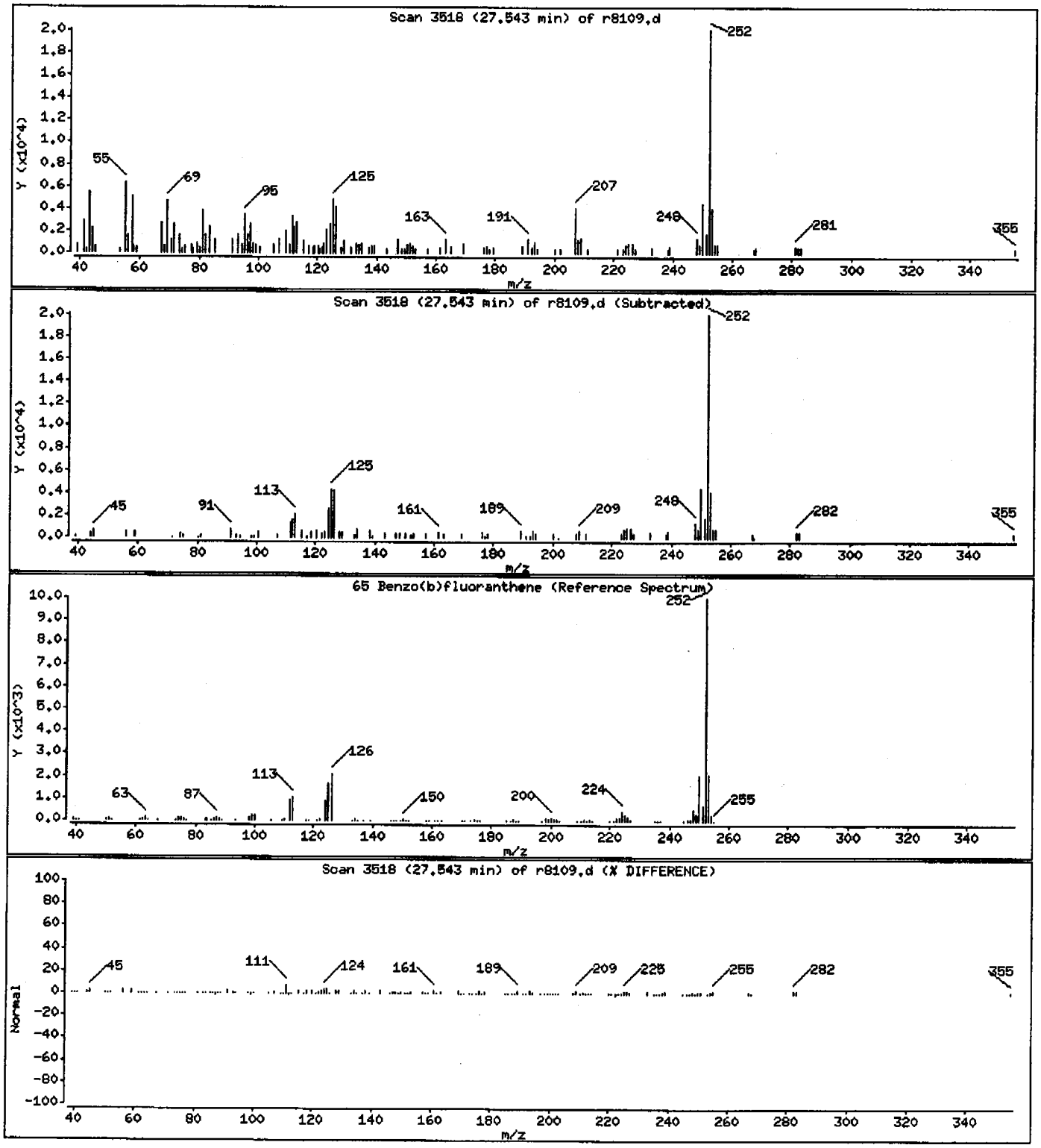
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 72 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

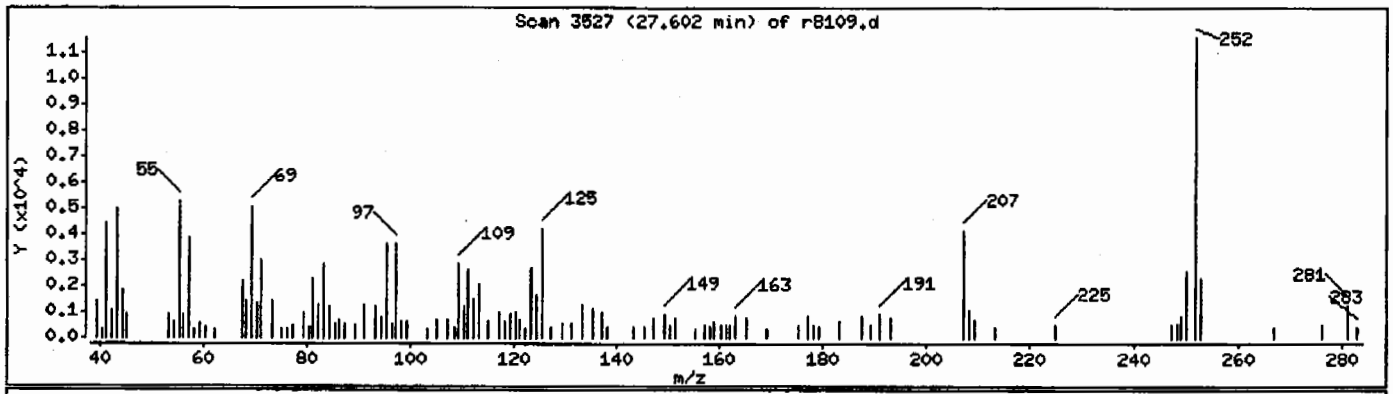
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

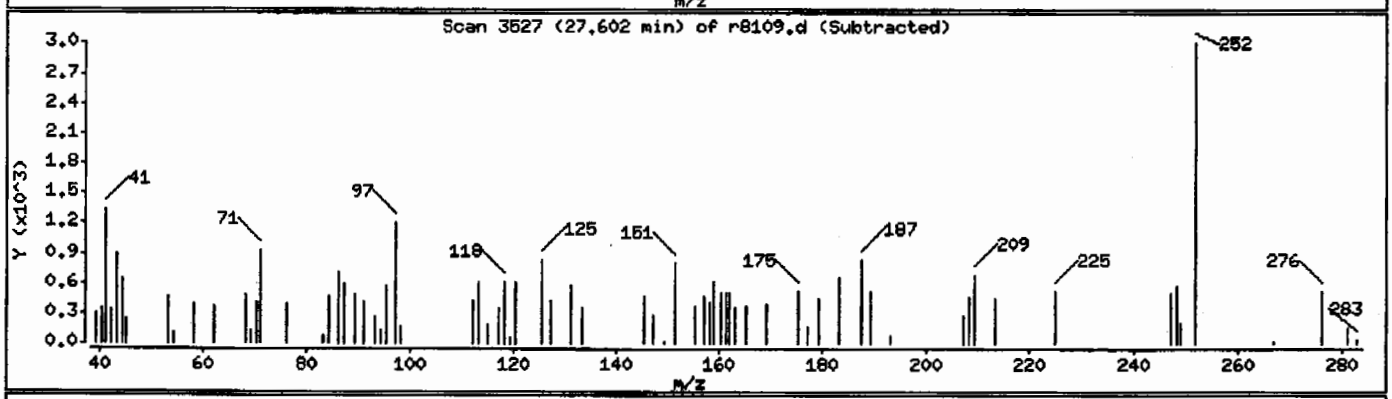
Sample Info: 392318;888437

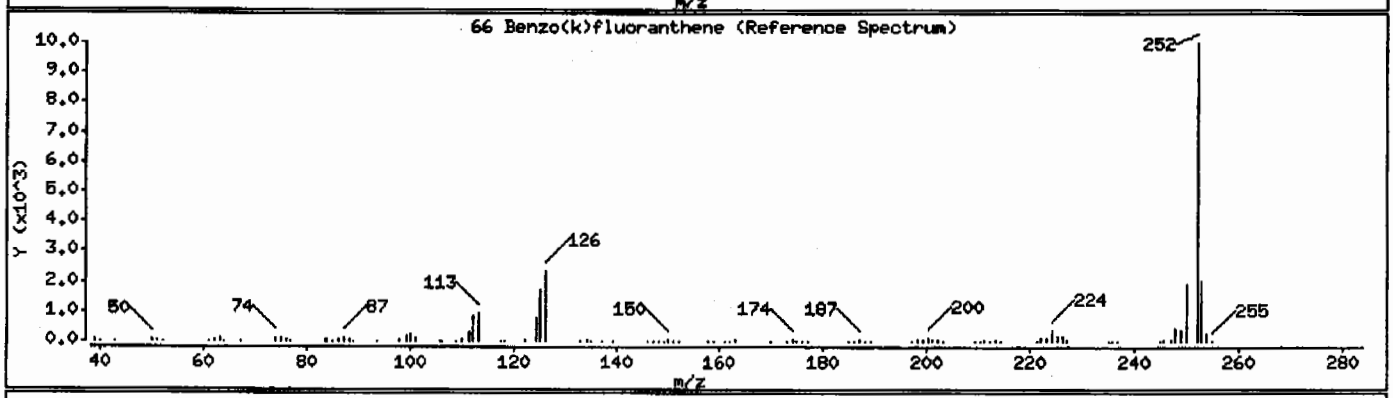
Operator: BNAMS 4

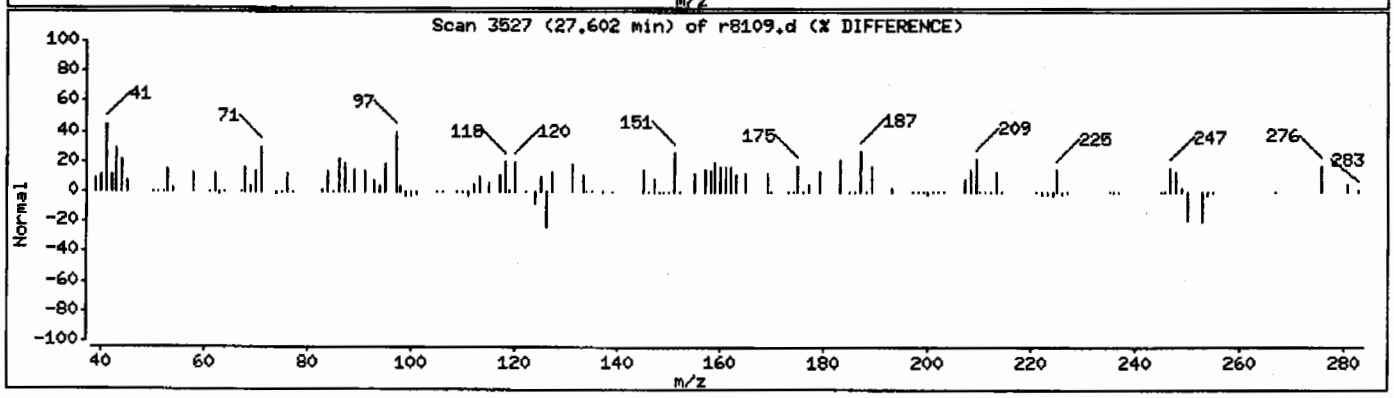
Column phase: DB-5 Column diameter: 0.25

66 Benzo(k)fluoranthene Concentration: 30 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

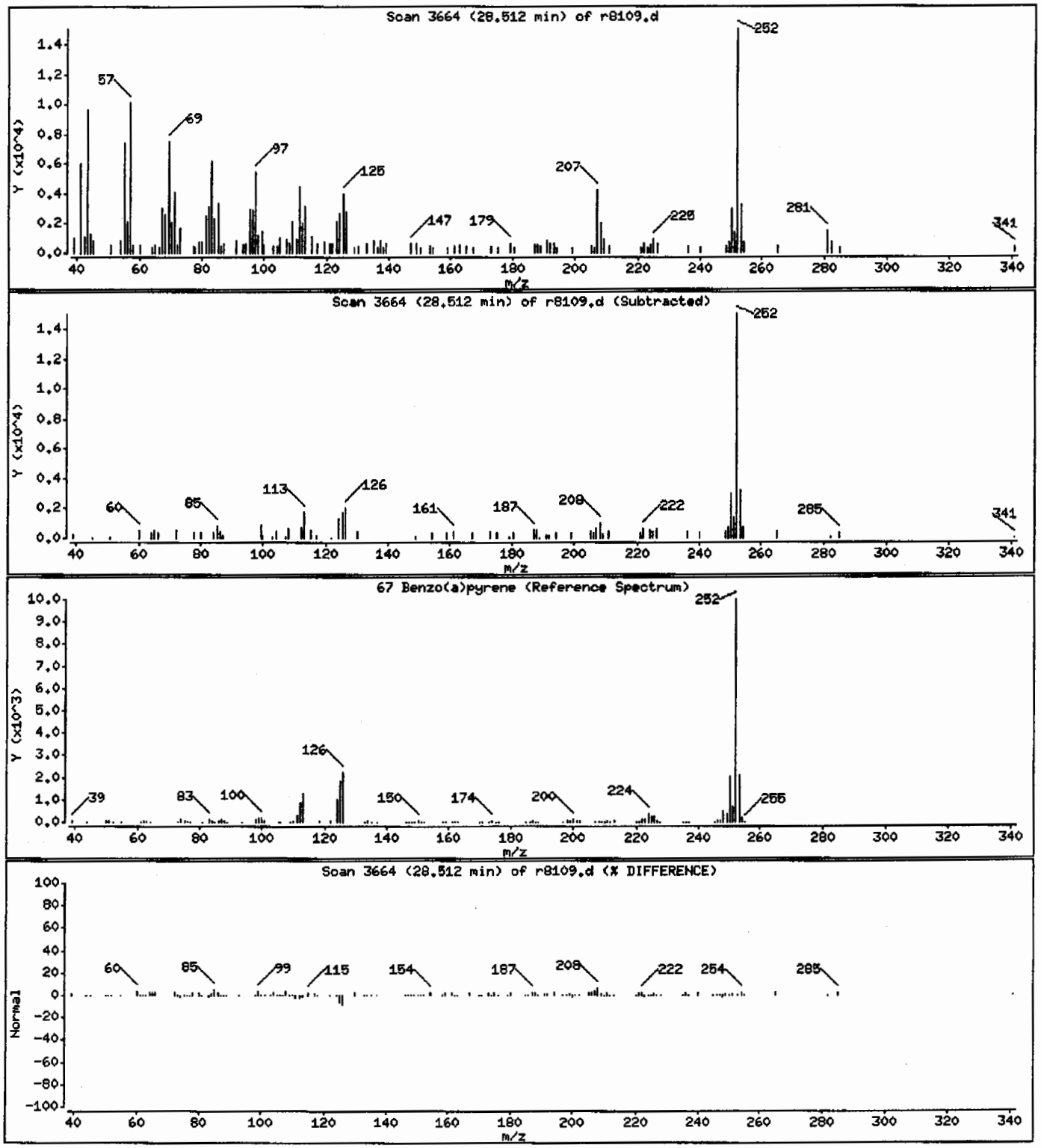
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

67 Benzo(a)pyrene Concentration: 50 ug/Kg



Data File: /chem/BNAHS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

Client ID: HA-02-04-0-6

Instrument: BNAHS1.i

Sample Info: 392318;888437

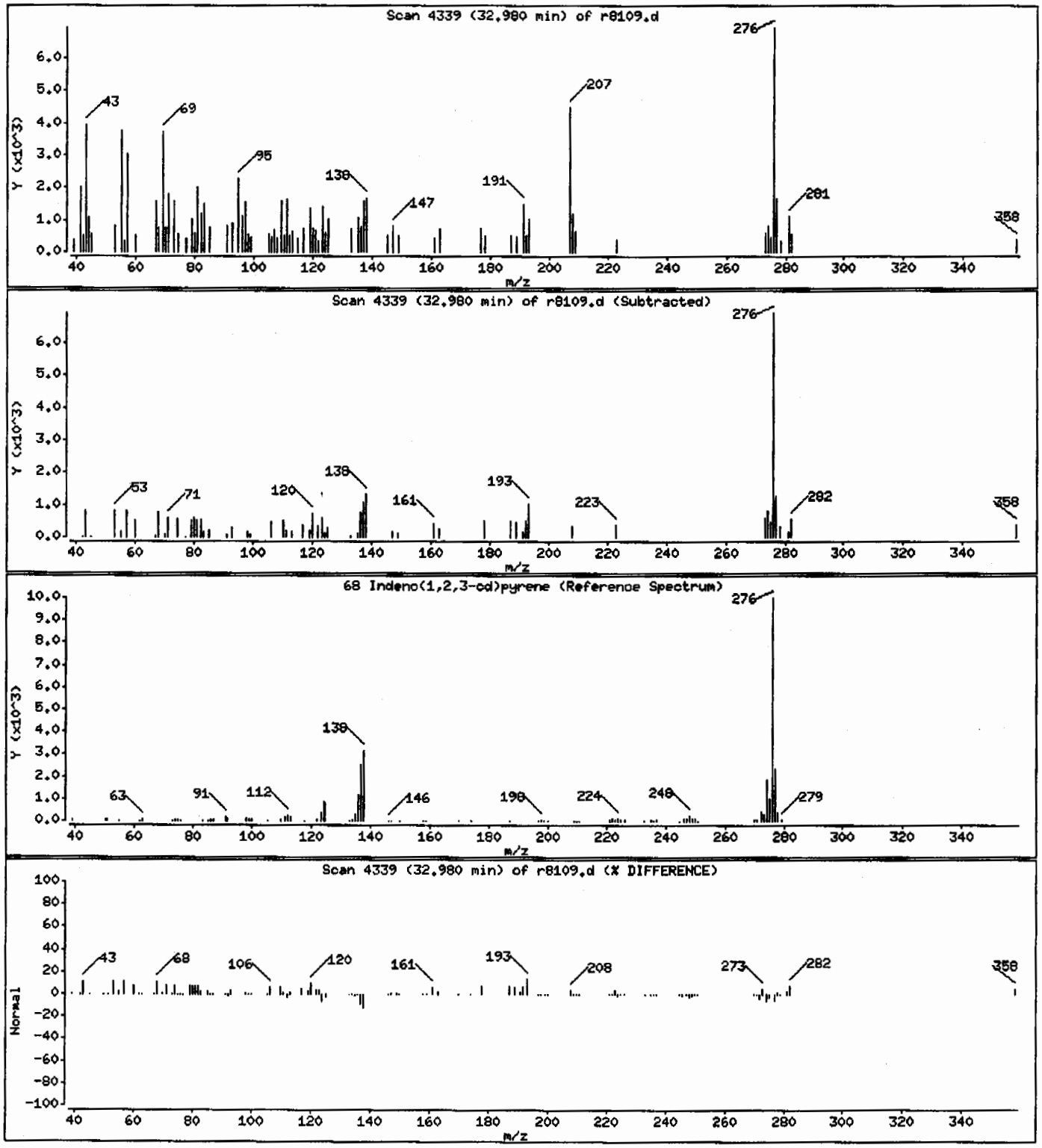
Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

68 Indeno(1,2,3-cd)pyrene

Concentration: 32 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

Client ID: HA-02-04-0-6

Instrument: BNAMS1.i

Sample Info: 392318;888437

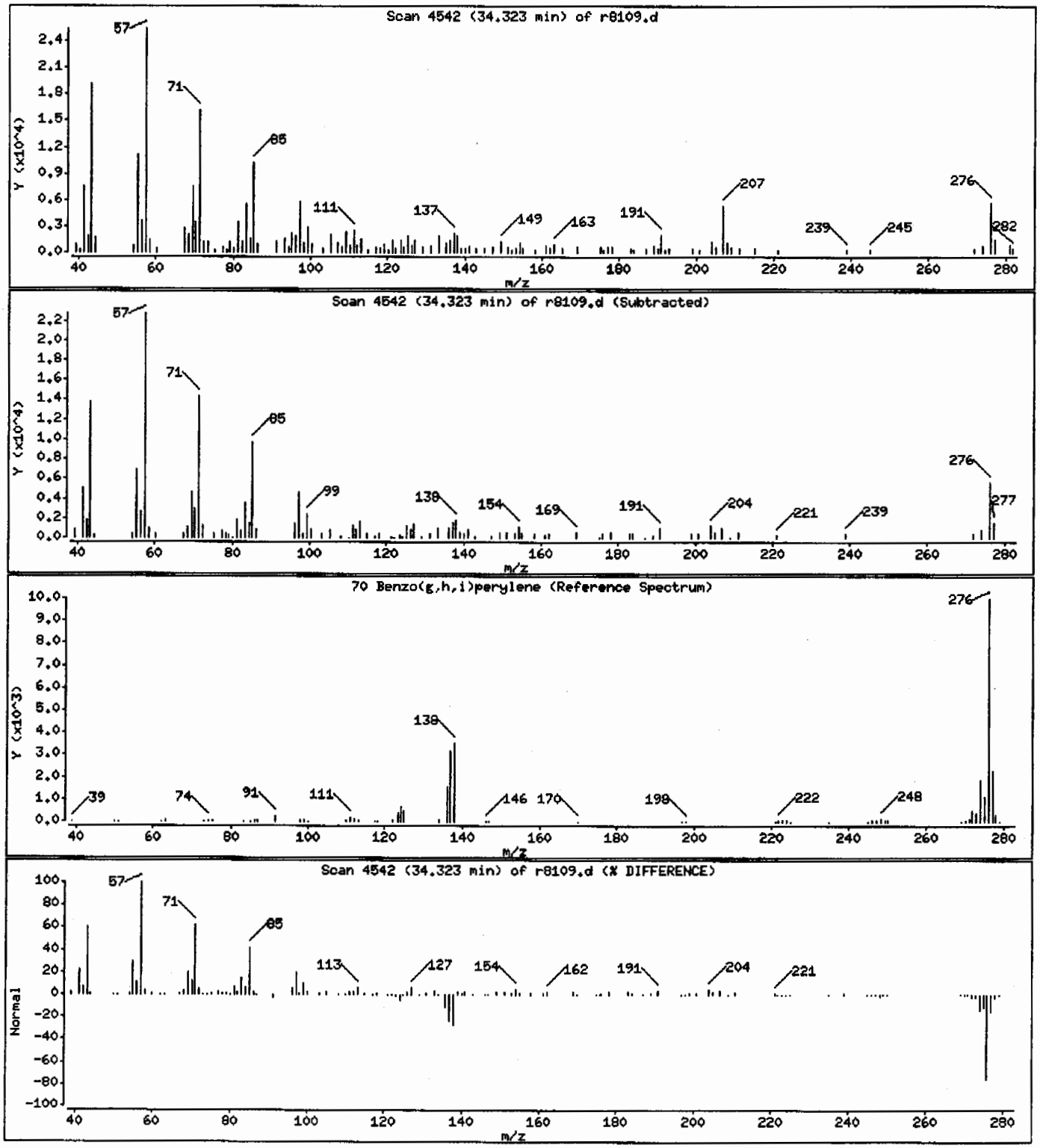
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 30 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

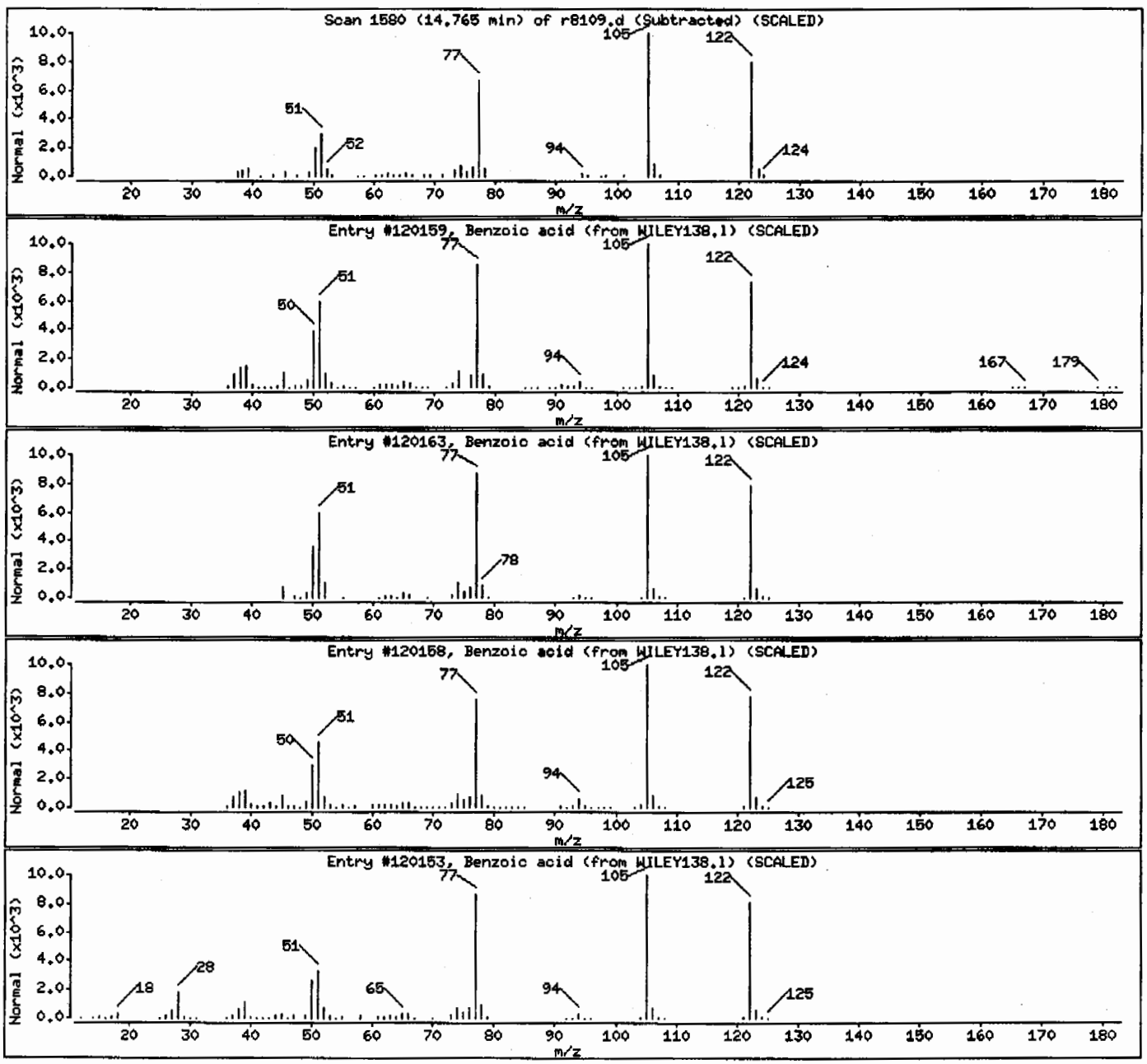
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzoic acid	65-85-0	WILEY138.1	120159	91	C7H6O2	122
Benzoic acid	1863-63-4	WILEY138.1	120163	91	C7H6O2	122
Benzoic acid	65-85-0	WILEY138.1	120158	91	C7H6O2	122
Benzoic acid	65-85-0	WILEY138.1	120153	91	C7H6O2	122



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

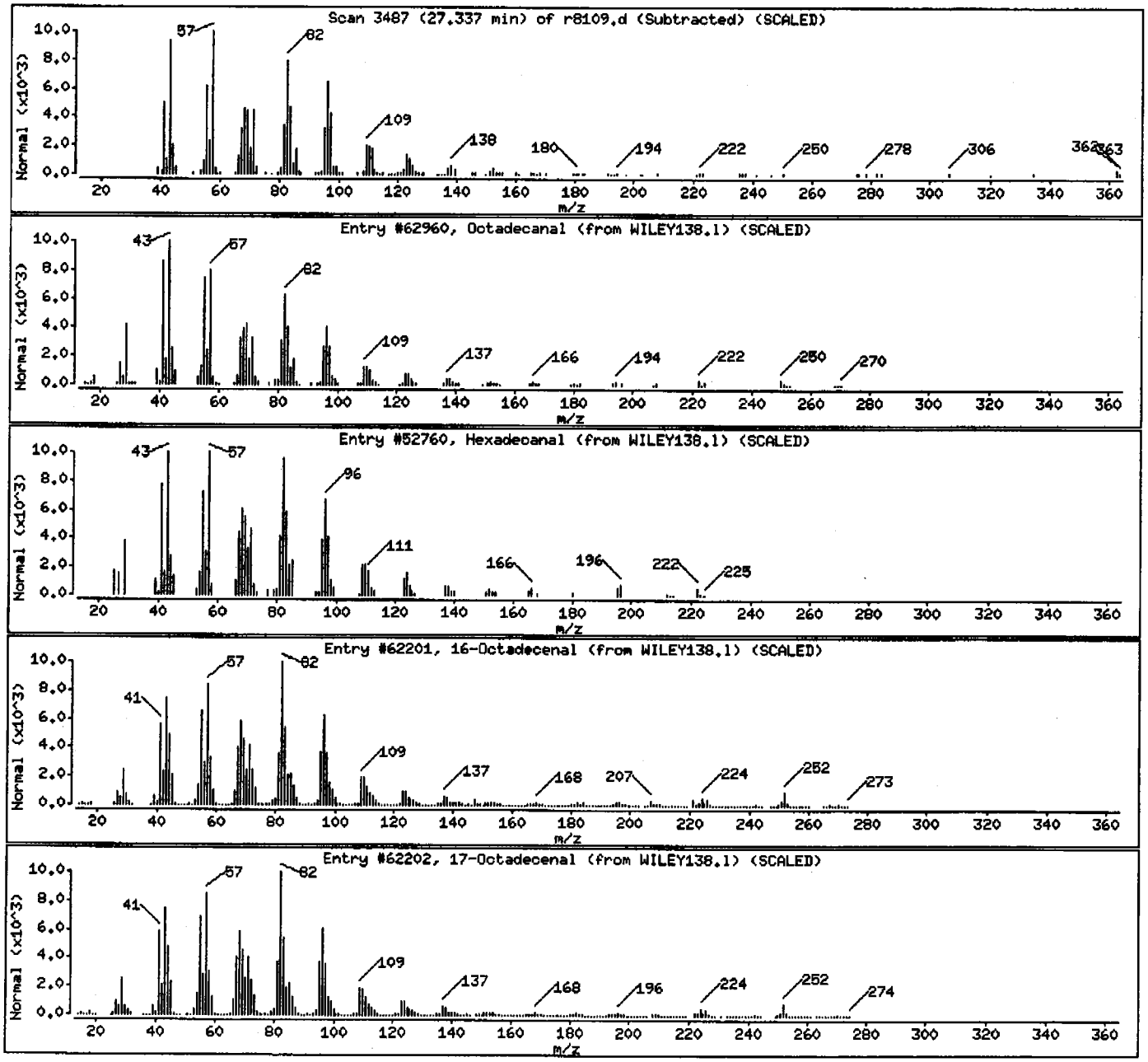
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octadecanal	638-66-4	WILEY138.1	62960	91	C18H360	268
Hexadecanal	629-80-1	WILEY138.1	52760	90	C16H320	240
16-Octadecenal	56554-87-1	WILEY138.1	62201	86	C18H340	266
17-Octadecenal	56554-86-0	WILEY138.1	62202	86	C18H340	266



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

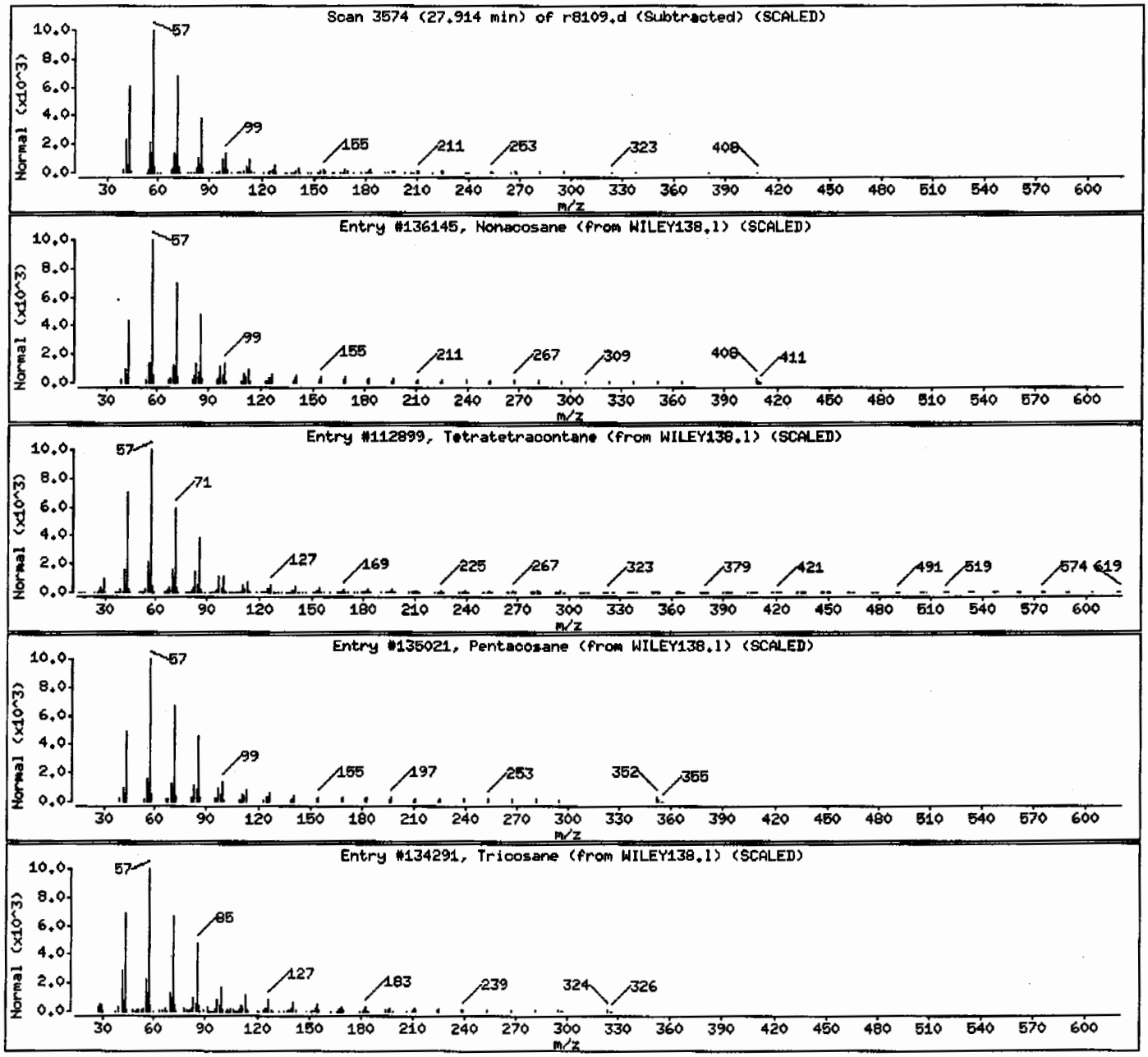
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Nonacosane	630-03-5	WILEY138.1	136145	94	C29H60	408
Tetratetracontane	7098-22-8	WILEY138.1	112899	91	C44H90	619
Pentacosane	629-99-2	WILEY138.1	135021	91	C25H52	352
Tricosane	638-67-5	WILEY138.1	134291	91	C23H48	324



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

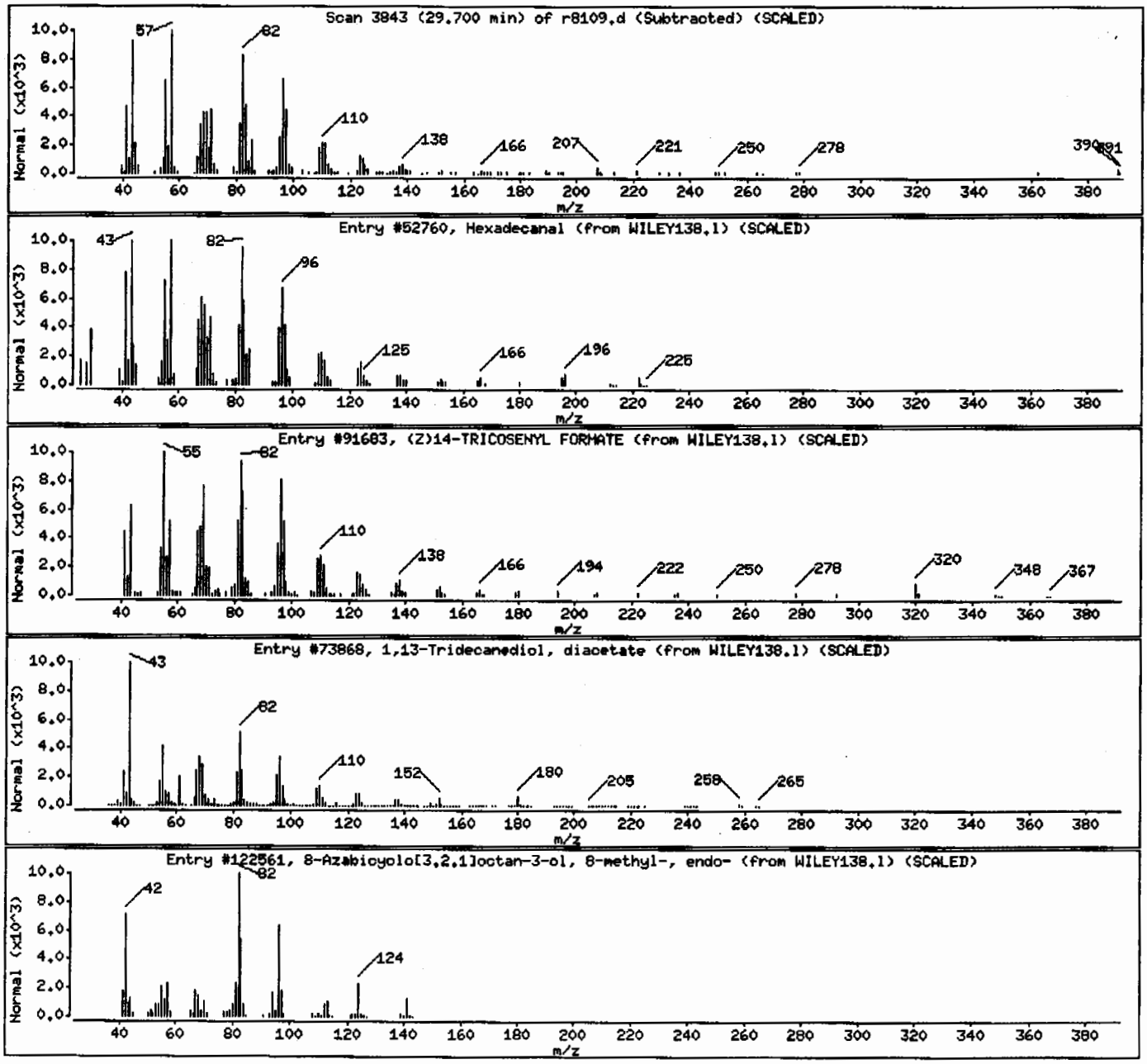
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Hexadecanal	629-80-1	WILEY138.1	52760	78	C16H32O	240
(Z)14-TRICOSENYL FORMATE	77899-10-6	WILEY138.1	91683	60	C24H46O2	366
1,13-Tridecanediol, diacetate	42236-70-4	WILEY138.1	73868	52	C17H32O4	300
8-Azabicyclo[3.2.1]octan-3-ol, 8-methyl-	120-29-6	WILEY138.1	122561	43	C8H15NO	141



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

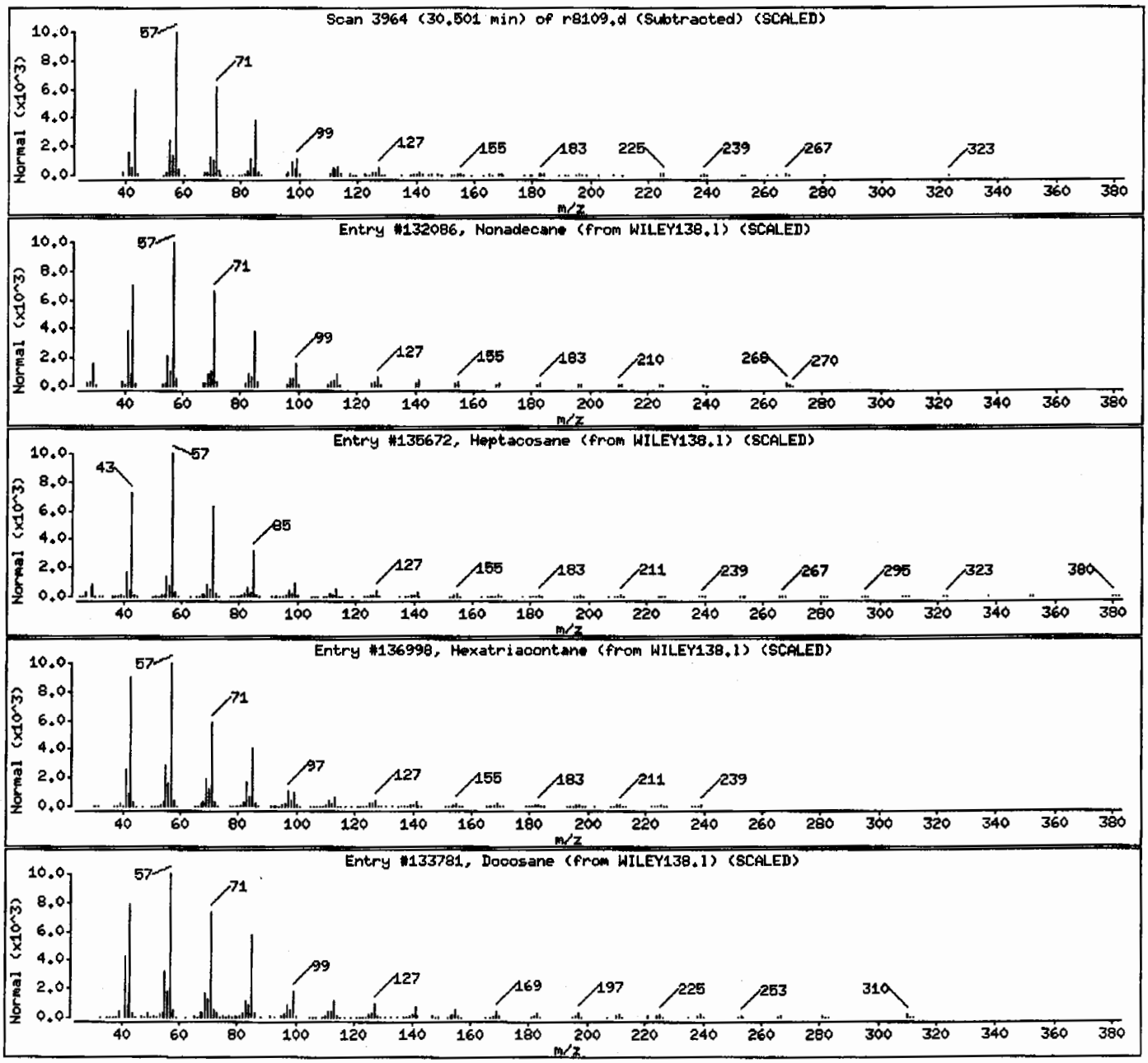
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Nonadecane	629-92-5	WILEY138.1	132086	97	C19H40	268
Heptacosane	593-49-7	WILEY138.1	135672	91	C27H56	380
Hexatriacontane	630-06-8	WILEY138.1	136998	90	C36H74	507
Docosane	629-97-0	WILEY138.1	133781	90	C22H46	310



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8109.d

Date : 06-DEC-2002 15:59

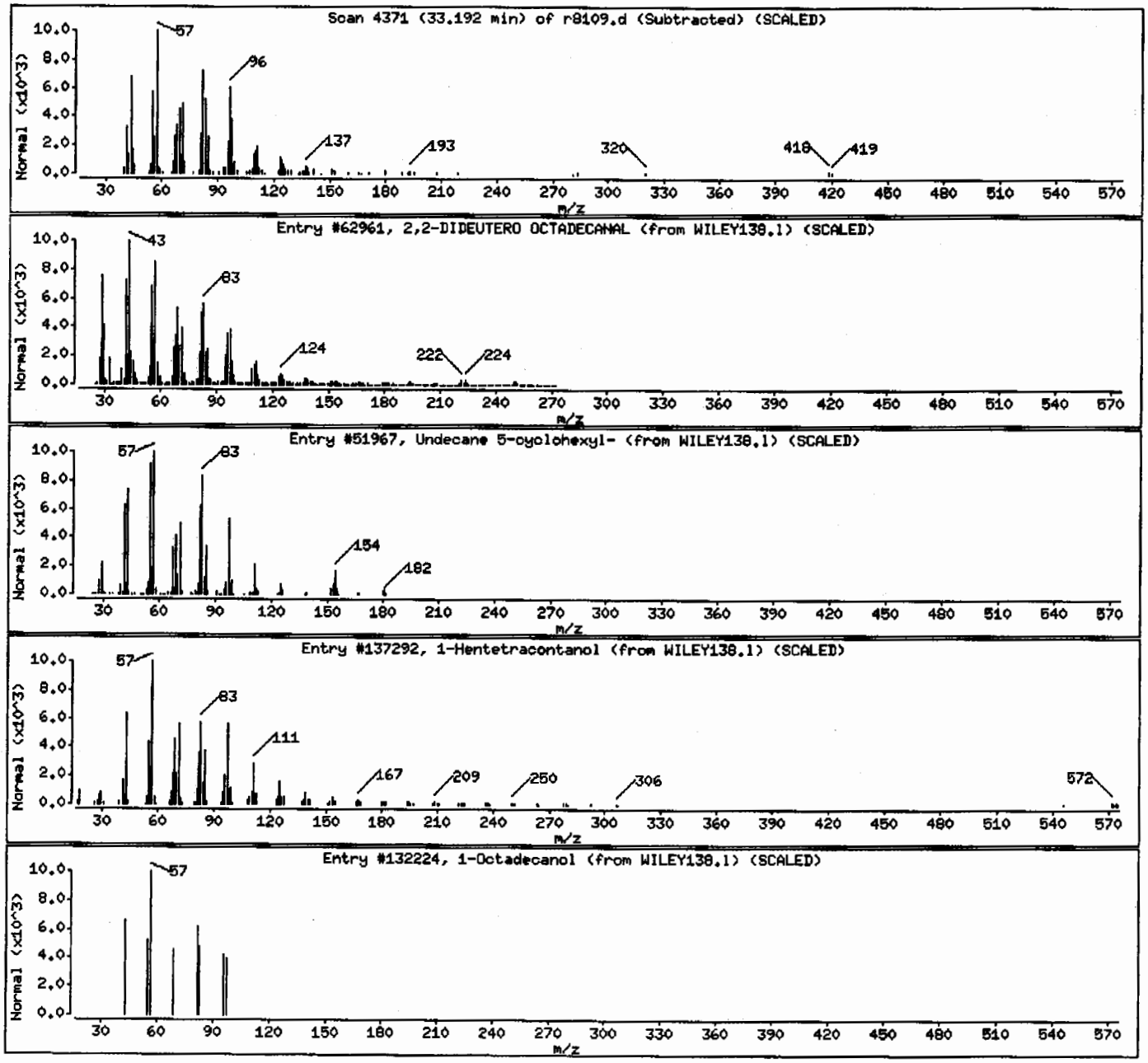
Client ID: HA-02-04-0-6 Instrument: BNAMS1.i

Sample Info: 392318;888437

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,2-DIDEUTERO OCTADECANAL	56555-07-8	WILEY138.1	62961	86	C18H34D2O	268
Undecane 5-cyclohexyl-	13151-80-9	WILEY138.1	51967	52	C17H34	238
1-Hentetracontanol	40710-42-7	WILEY138.1	137292	50	C41H84O	593
1-Octadecanol	112-92-5	WILEY138.1	132224	49	C18H38O	270



Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8110.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8110.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	25 J	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	8.3J	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	140 J	380
Anthracene	52 J	380

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8110.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	11 J	380
Di-n-butylphthalate	ND	380
Fluoranthene	380	380
Pyrene	320 J	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	190	38
Chrysene	210 J	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	220	38
Benzo(k)fluoranthene	100	38
Benzo(a)pyrene	160	38
Indeno(1,2,3-cd)pyrene	80	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	79 J	380

Client ID: **HA-02-03-0-6**
Site: Earle NWS Closure

Lab Sample No: **392319**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8110.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12.2

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	16.39	360	
2. Unknown	20.47	880	
3. Unknown	24.73	380	
4. Unknown	25.36	490	
5. Unknown	25.44	810	
6. Unknown	27.34	970	
7. Unknown Alkane	27.92	560	
8. Unknown	28.14	1800	
9. Unknown	29.70	590	
10. Unknown Alkane	30.50	890	
11. Unknown	33.18	680	
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 8410

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d
Report Date: 07-Dec-2002 08:28

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d
Lab Smp Id: 392319 Client Smp ID: HA-02-03-0-6
Inj Date : 06-DEC-2002 16:46
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392319;888472
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/06dec02.b/8270c1.m
Meth Date : 06-Dec-2002 08:53 czhao Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	12.20000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.641	10.620	(0.814)	2996471	77.3879	5900
$ 17 Phenol-d5 (SUR)	99	12.435	12.438	(0.951)	3528393	81.6111	6200
* 79 1,4-Dichlorobenzene-d4	152	13.077	13.081	(1.000)	814604	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.033	14.041	(0.920)	1369795	42.8723	3200
* 80 Naphthalene-d8	136	15.258	15.264	(1.000)	3273525	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.054	17.056	(0.937)	2713902	43.4117	3300
39 Acenaphthylene	152	17.960	17.966	(0.987)	25642	0.32961	25(a)
* 82 Acenaphthene-d10	164	18.196	18.203	(1.000)	1921303	40.0000	
47 Fluorene	166	19.103	19.113	(1.050)	6811	0.10993	8.3(a)
$ 18 2,4,6-Tribromophenol (SUR)	330	19.504	19.510	(1.072)	797329	80.1078	6100
* 83 Phenanthrene-d10	188	20.669	20.677	(1.000)	3565951	40.0000	
52 Phenanthrene	178	20.702	20.717	(1.002)	155689	1.81984	140(a)
53 Anthracene	178	20.788	20.803	(1.006)	60554	0.68614	52(a)
54 Carbazole	167	21.032	21.054	(1.018)	11057	0.14678	11(a)

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d
Report Date: 07-Dec-2002 08:28

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
56 Fluoranthene	202	22.674	22.689	(1.097)	461189	4.95398	380
57 Pyrene	202	23.058	23.072	(0.919)	384674	4.26028	320(a)
$ 78 Terphenyl-d14 (SUR)	244	23.291	23.296	(0.928)	2342843	41.4360	3100
61 Benzo(a)anthracene	228	25.069	25.093	(0.999)	178495	2.47927	190
* 81 Chrysene-d12	240	25.103	25.120	(1.000)	2633778	40.0000	
62 Chrysene	228	25.143	25.173	(1.002)	182914	2.72403	210(a)
65 Benzo(b)fluoranthene	252	27.535	27.582	(0.958)	220333	2.92654	220(H)
66 Benzo(k)fluoranthene	252	27.609	27.675	(0.960)	95874	1.36307	100
67 Benzo(a)pyrene	252	28.522	28.577	(0.992)	150341	2.18306	160
* 84 Perylene-d12	264	28.749	28.762	(1.000)	2657364	40.0000	
68 Indeno(1,2,3-cd)pyrene	276	32.984	33.101	(1.147)	77446	1.04950	80
70 Benzo(g,h,i)perylene	276	34.316	34.485	(1.194)	78795	1.03834	79(aM)

QC Flag Legend

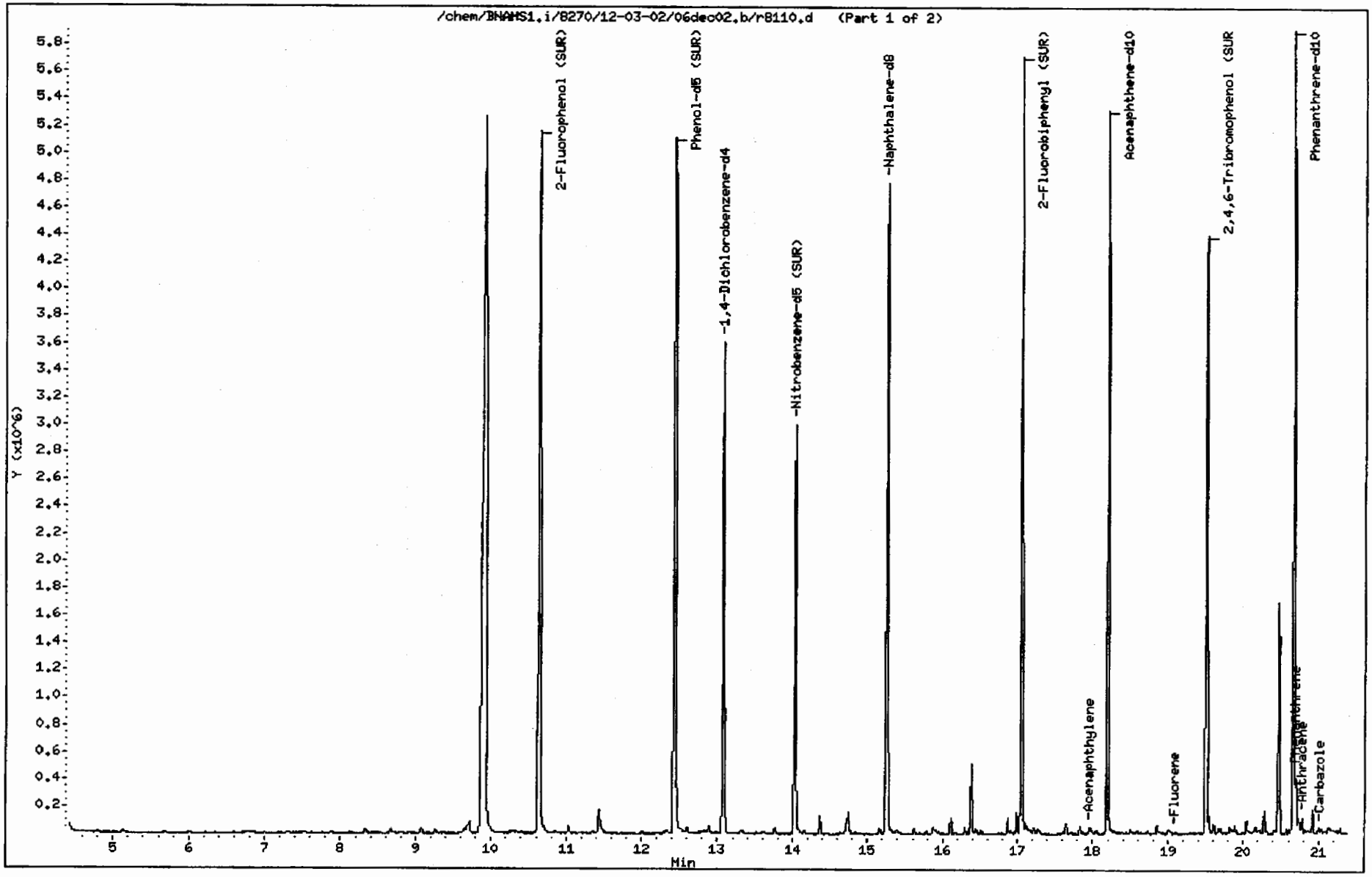
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d
Date : 06-DEC-2002 16:46
Client ID: HA-02-03-0-6
Sample Info: 392319;888472

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



744

STL Edison

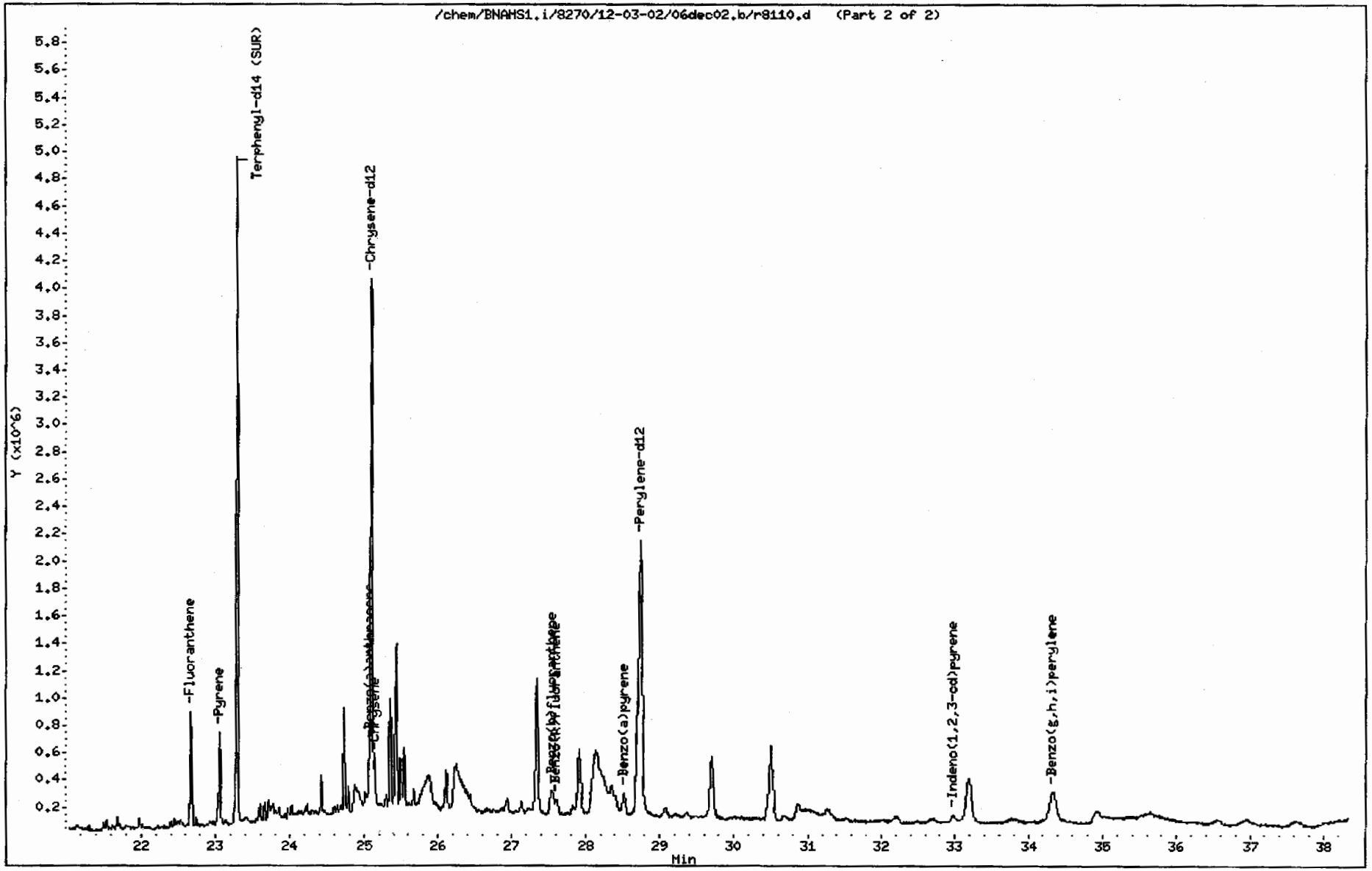
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d
Date : 06-DEC-2002 16:46
Client ID: HA-02-03-0-6
Sample Info: 392319;888472

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



745

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

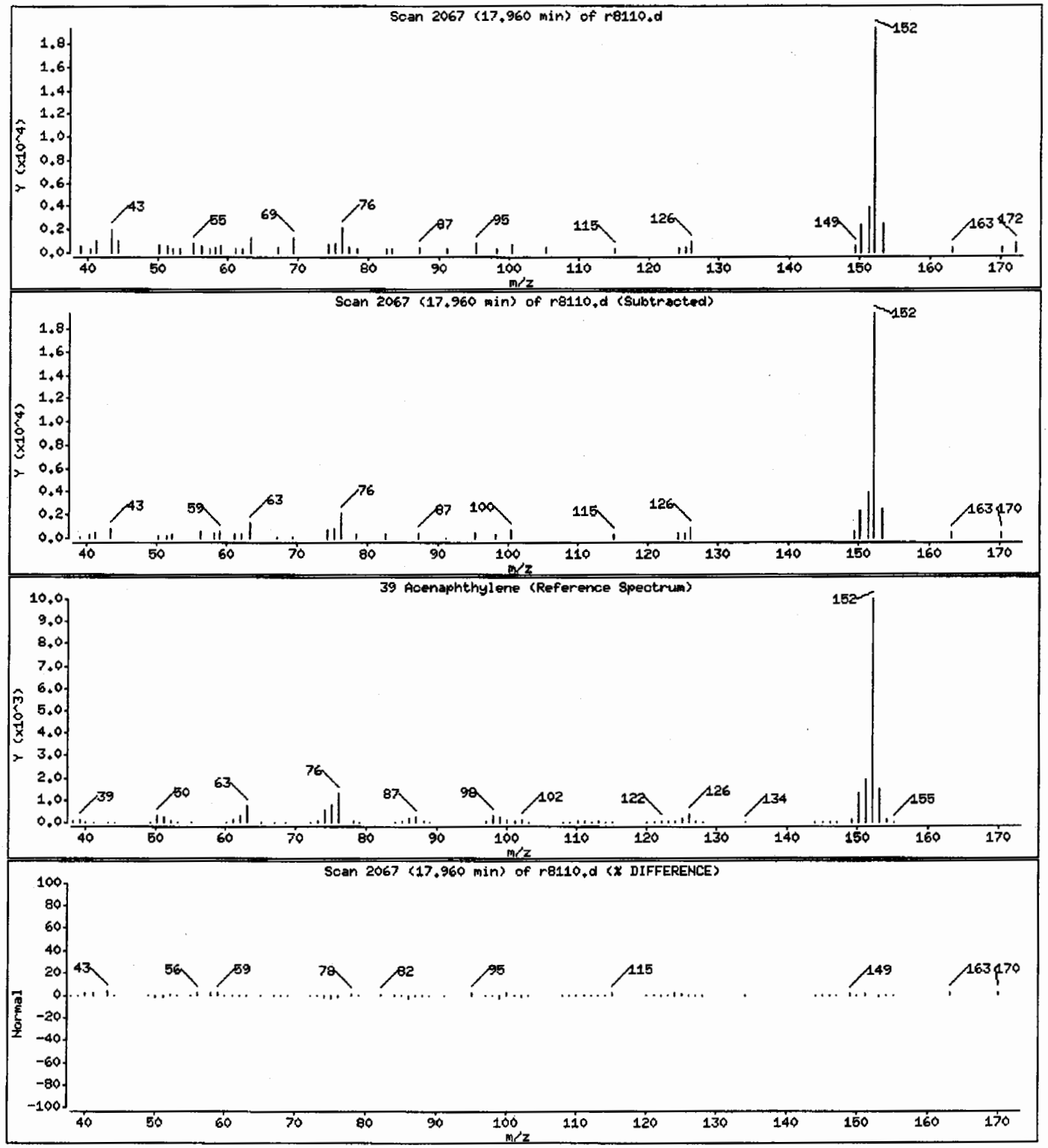
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

39 Acenaphthylene Concentration: 25 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

Client ID: HA-02-03-0-6

Instrument: BNAMS1.i

Sample Info: 392319;888472

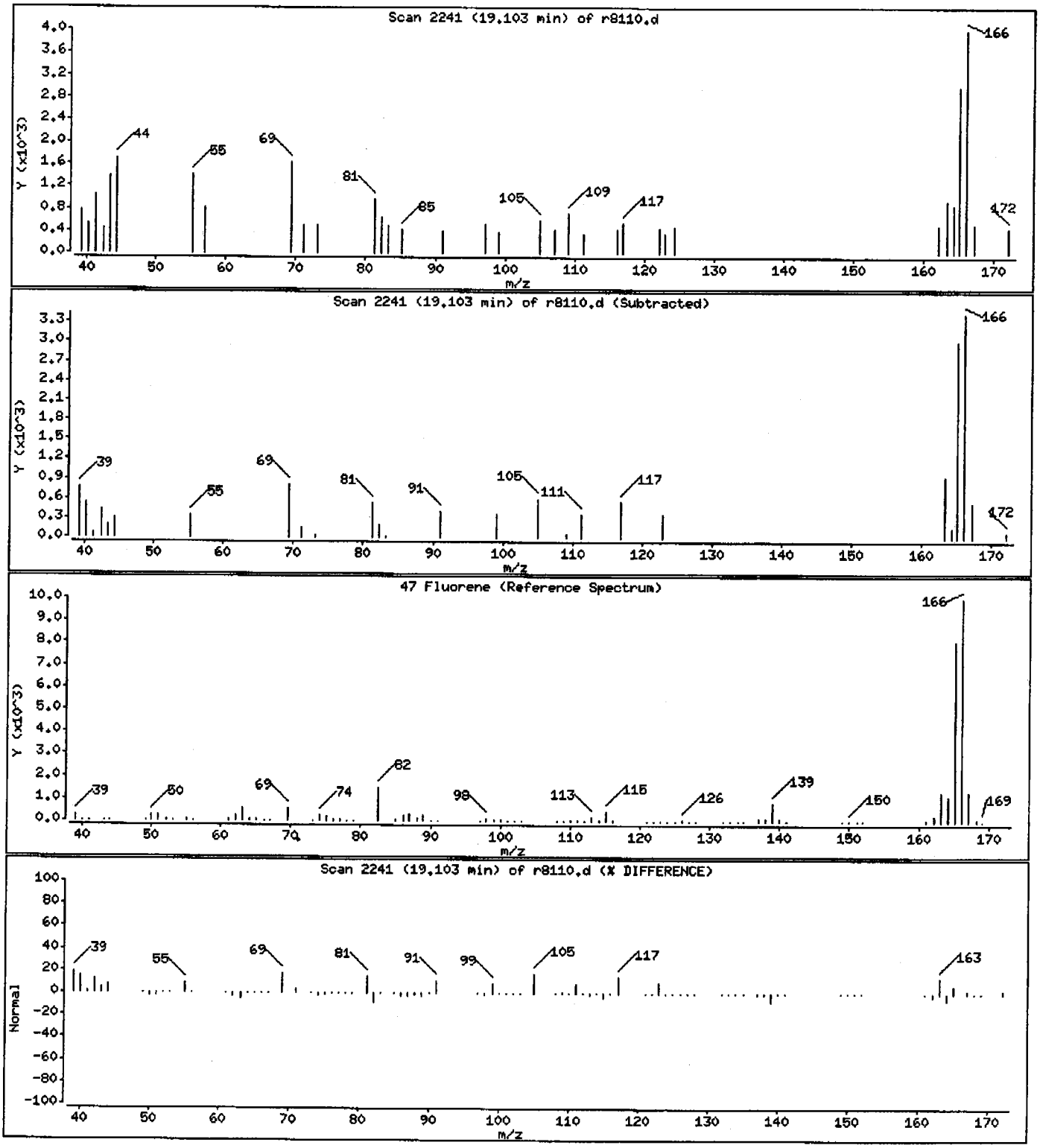
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

47 Fluorene

Concentration: 8.3 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

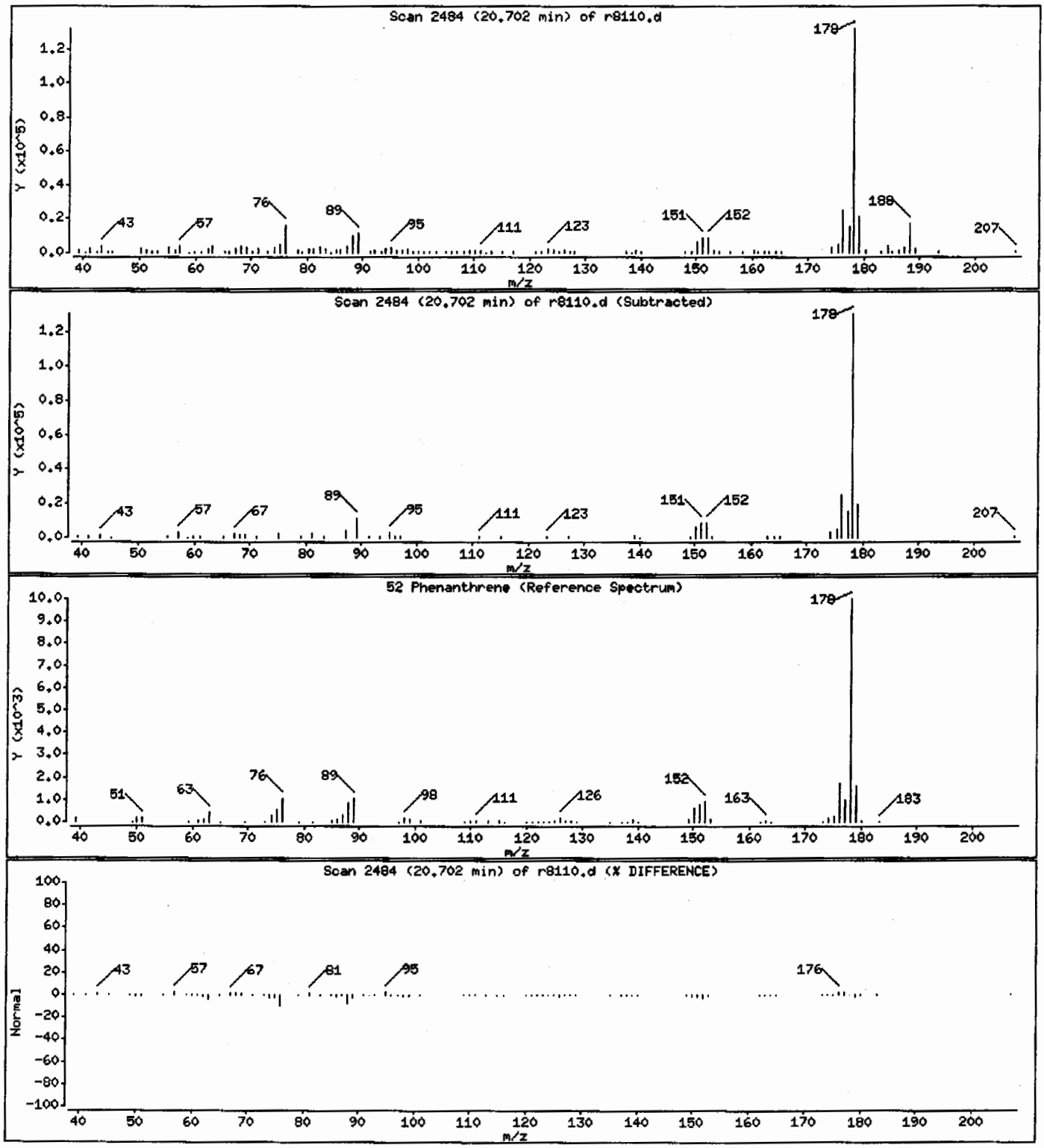
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

52 Phenanthrene Concentration: 140 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

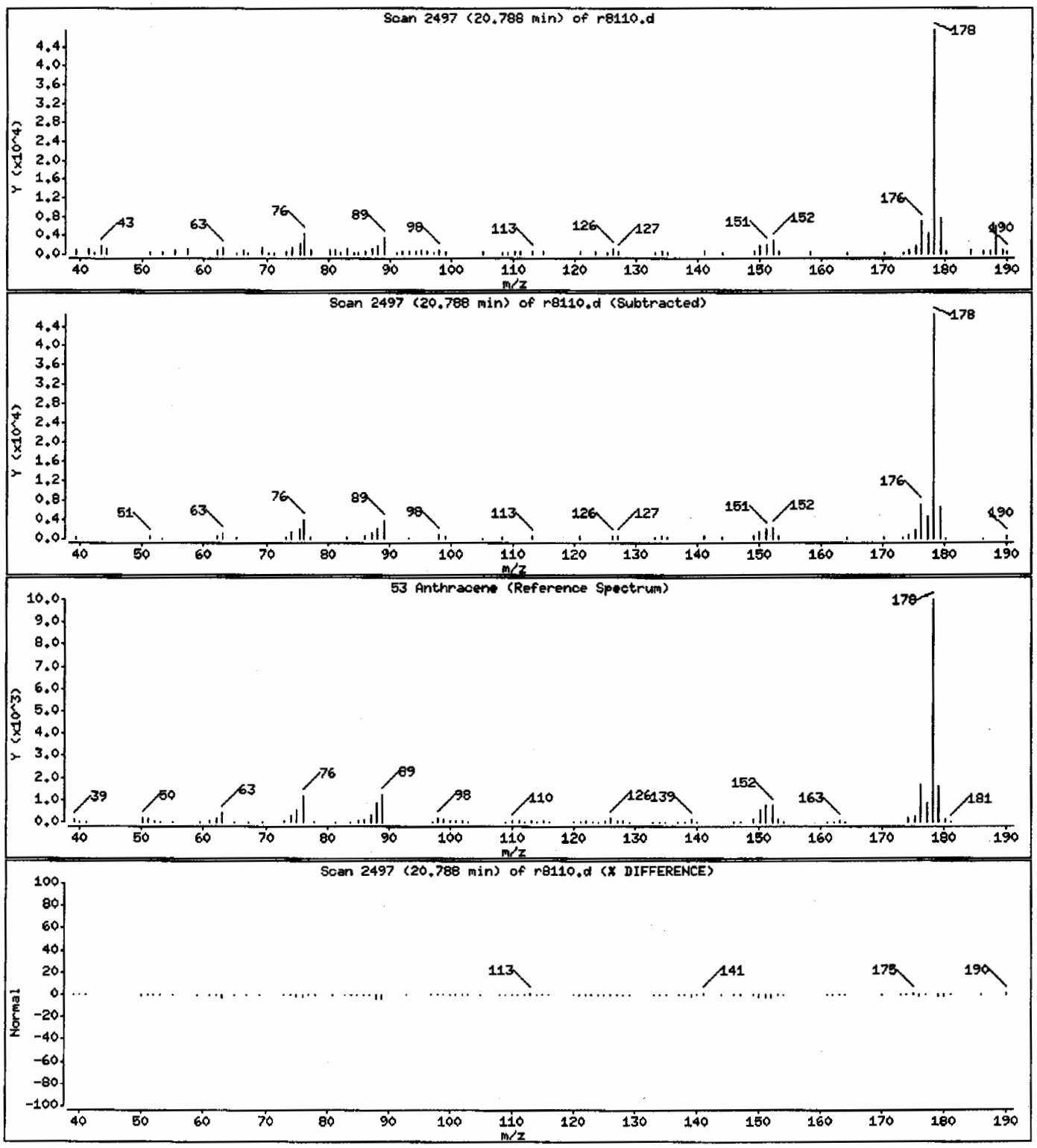
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

53 Anthracene Concentration: 52 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

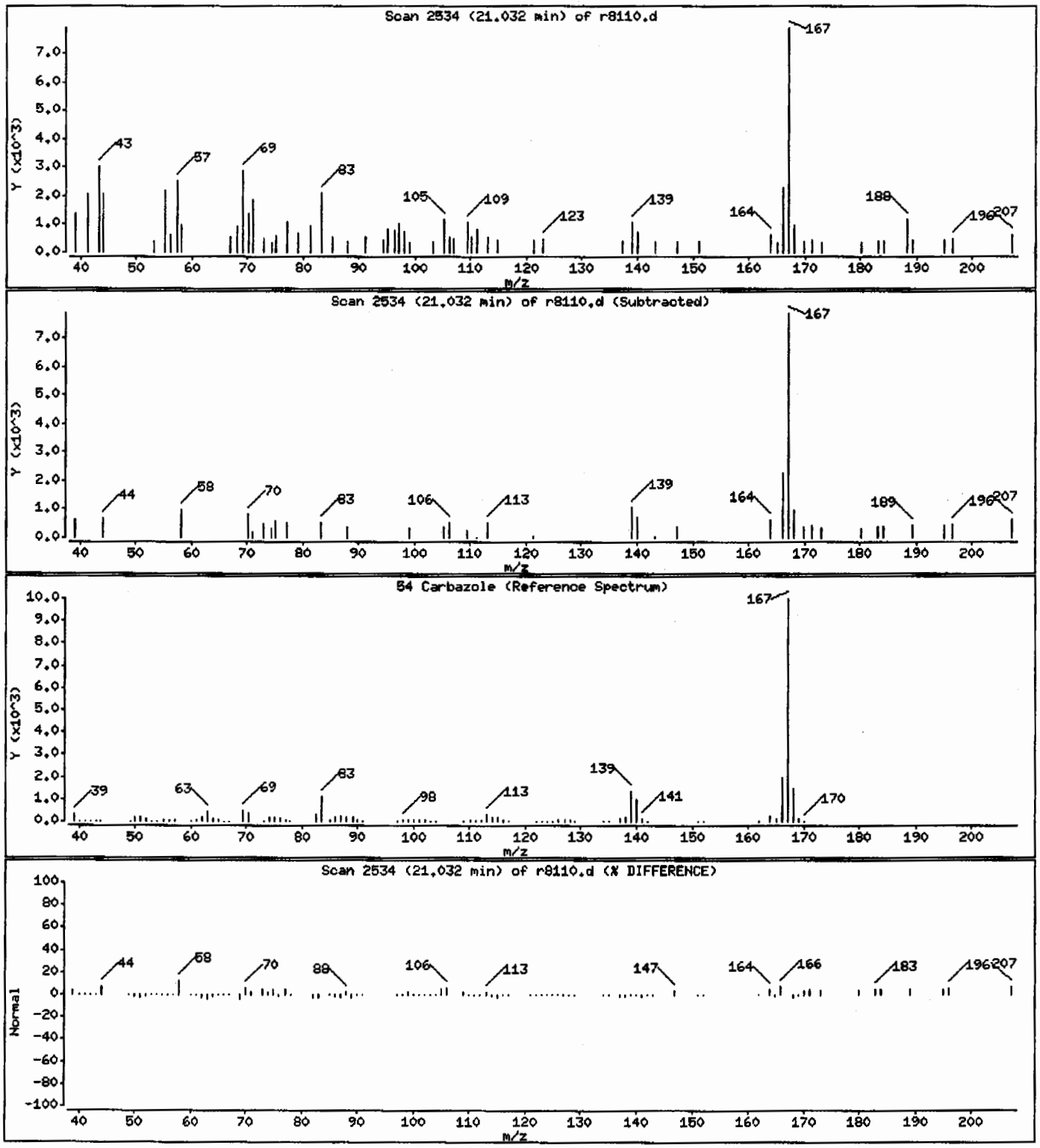
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

54 Carbazole Concentration: 11 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

Client ID: HA-02-03-0-6

Instrument: BNAMS1.i

Sample Info: 392319;888472

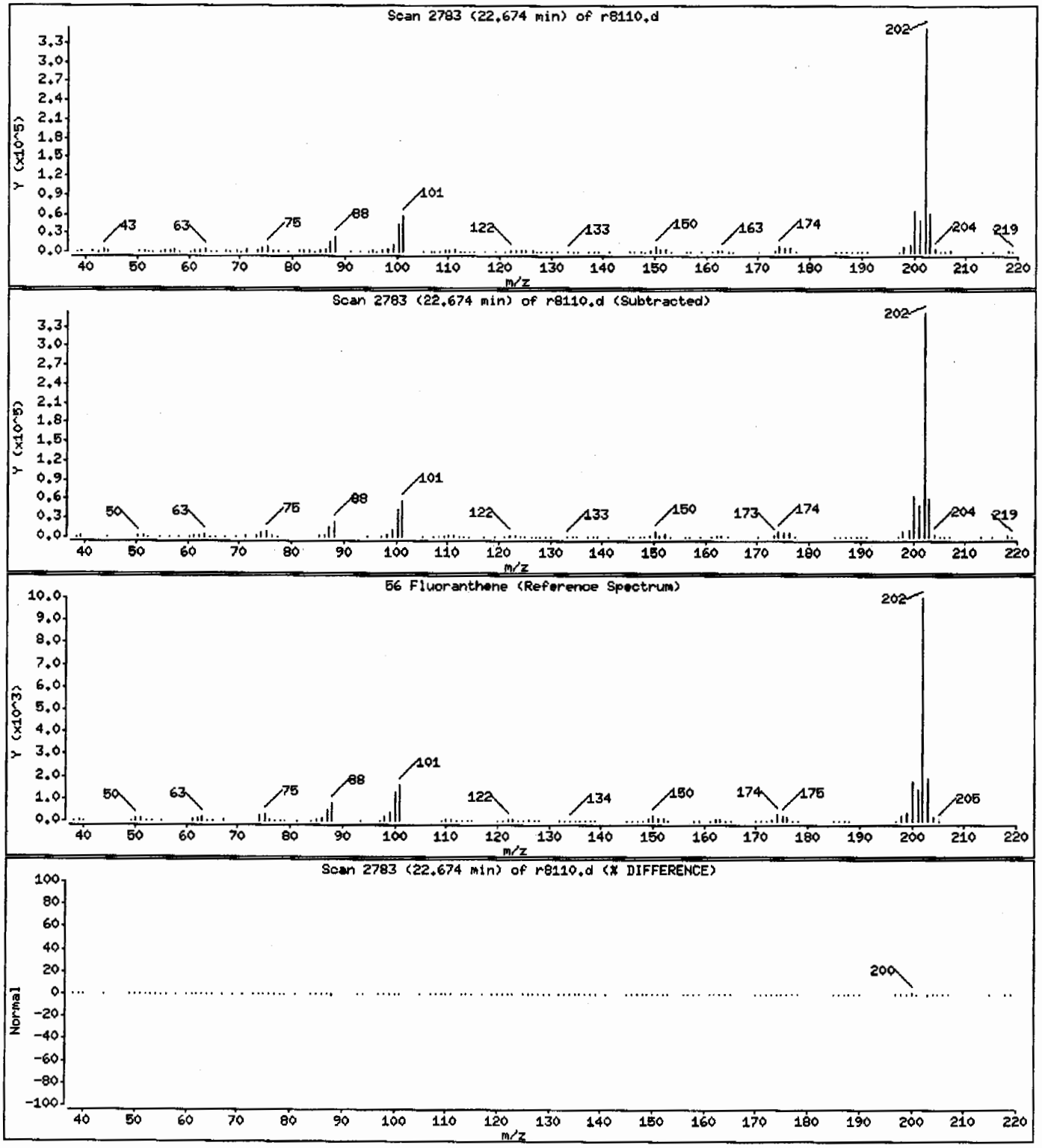
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 380 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

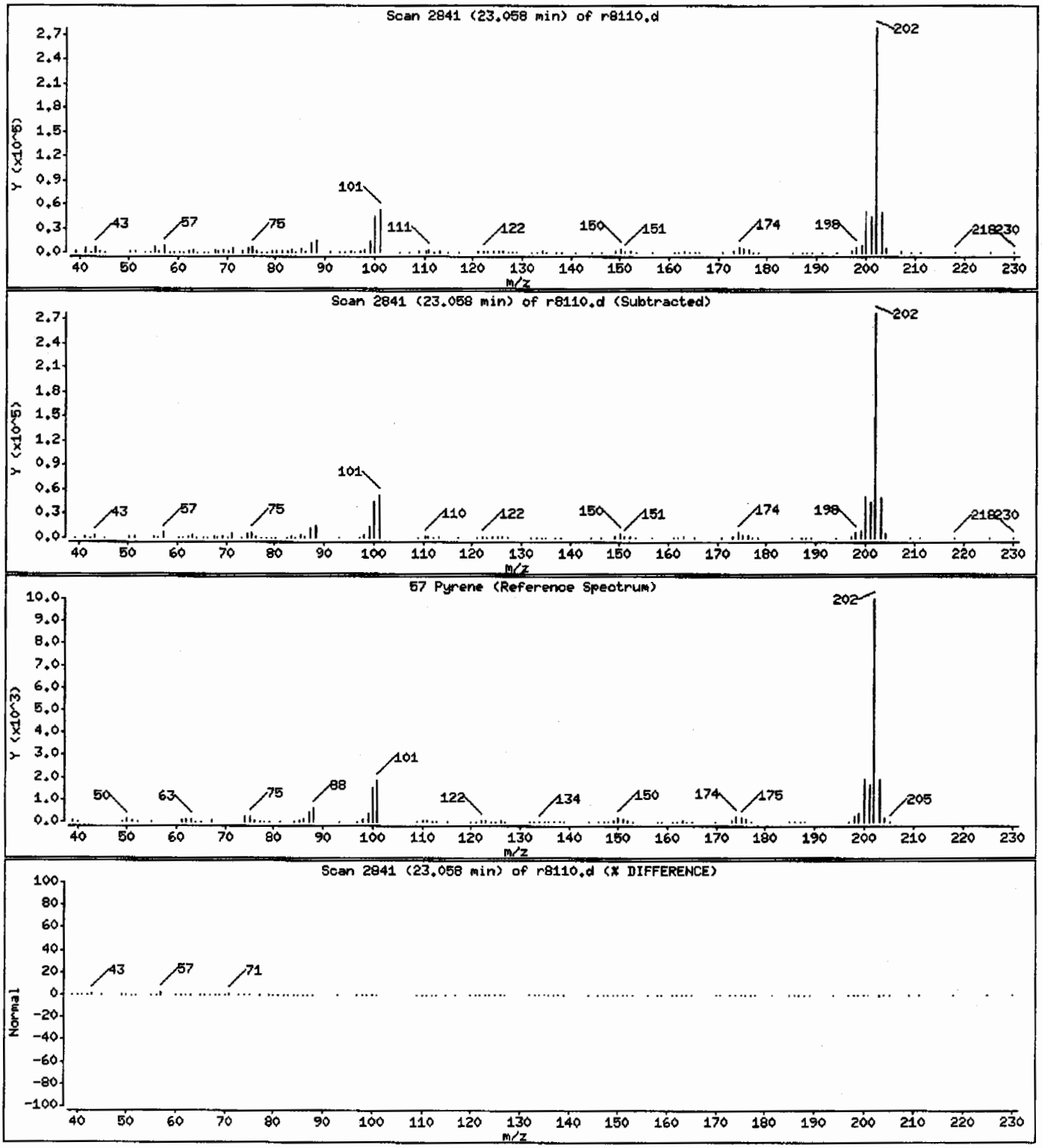
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

57 Pyrene Concentration: 320 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

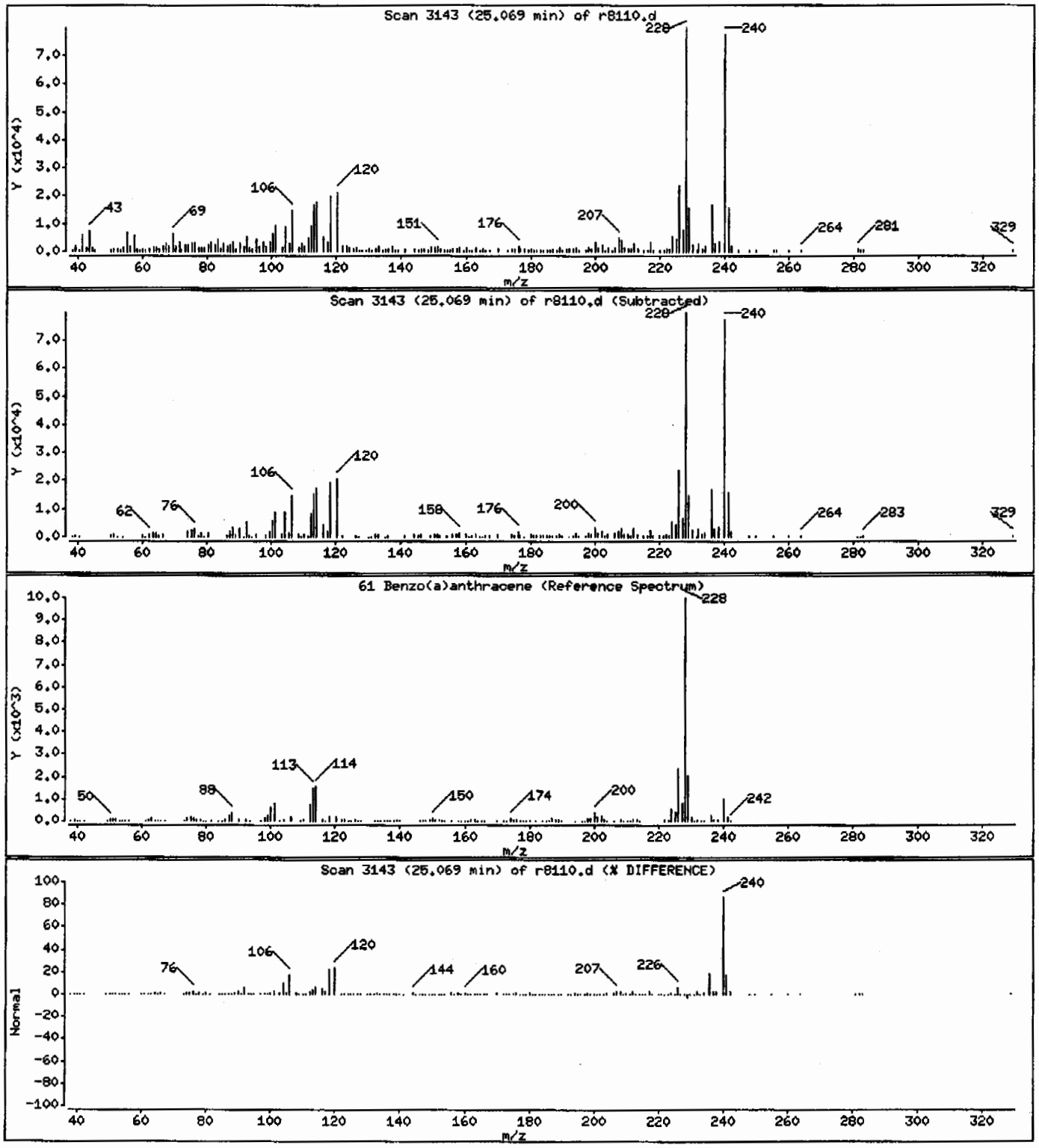
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319:888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

61 Benzo(a)anthracene Concentration: 190 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

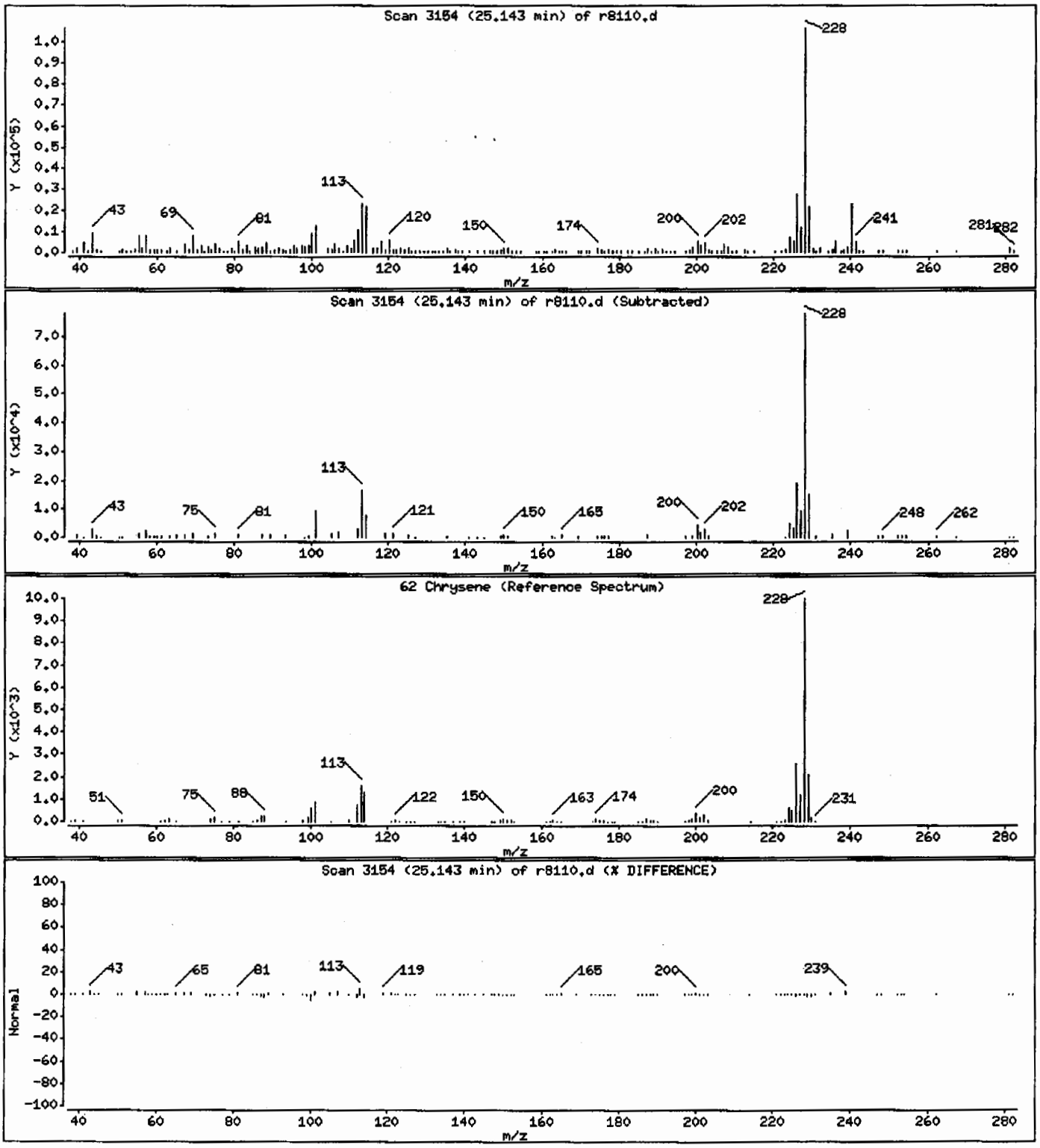
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

62 Chrysene Concentration: 210 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

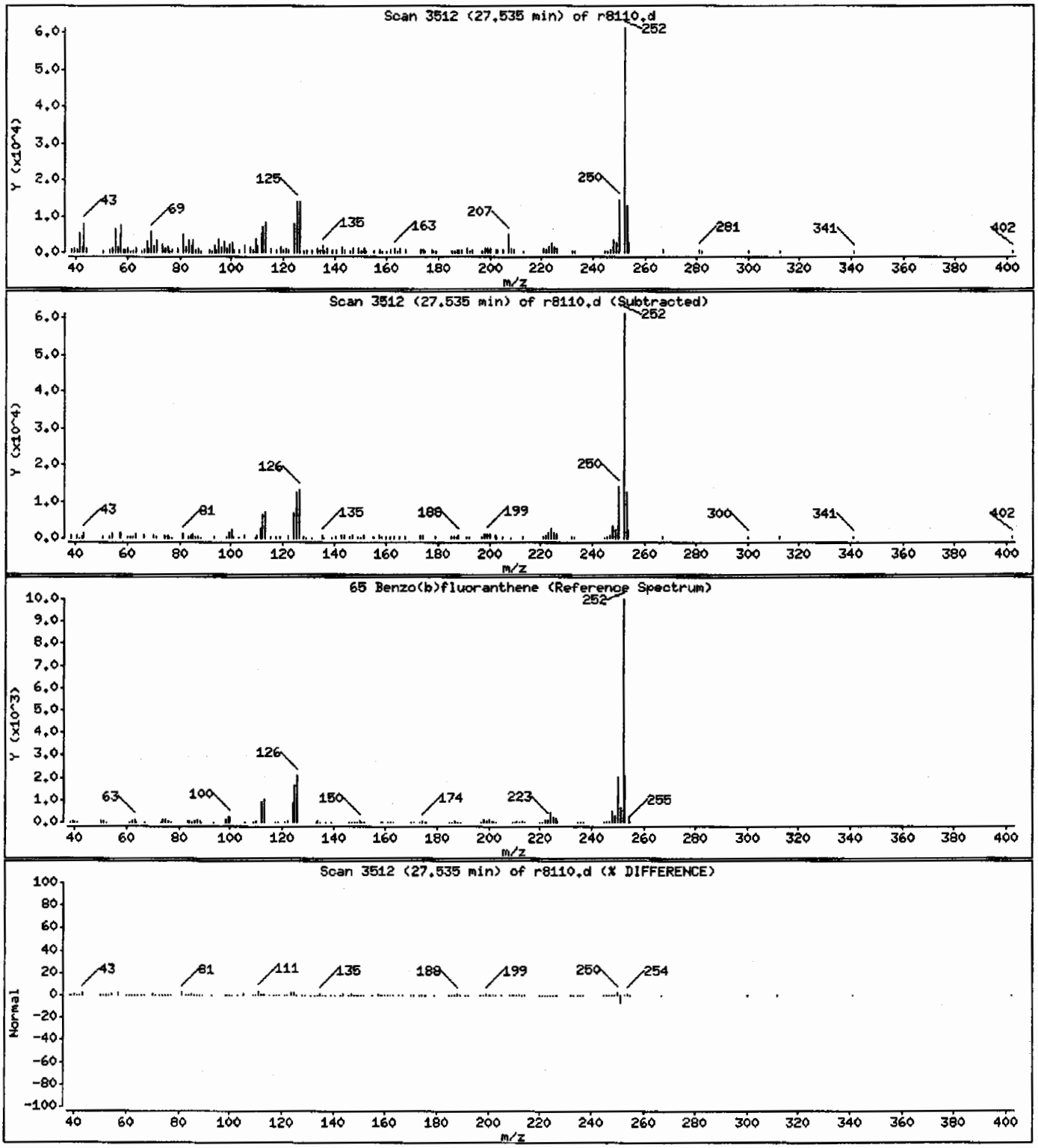
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

65 Benzo(b)fluoranthene Concentration: 220 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

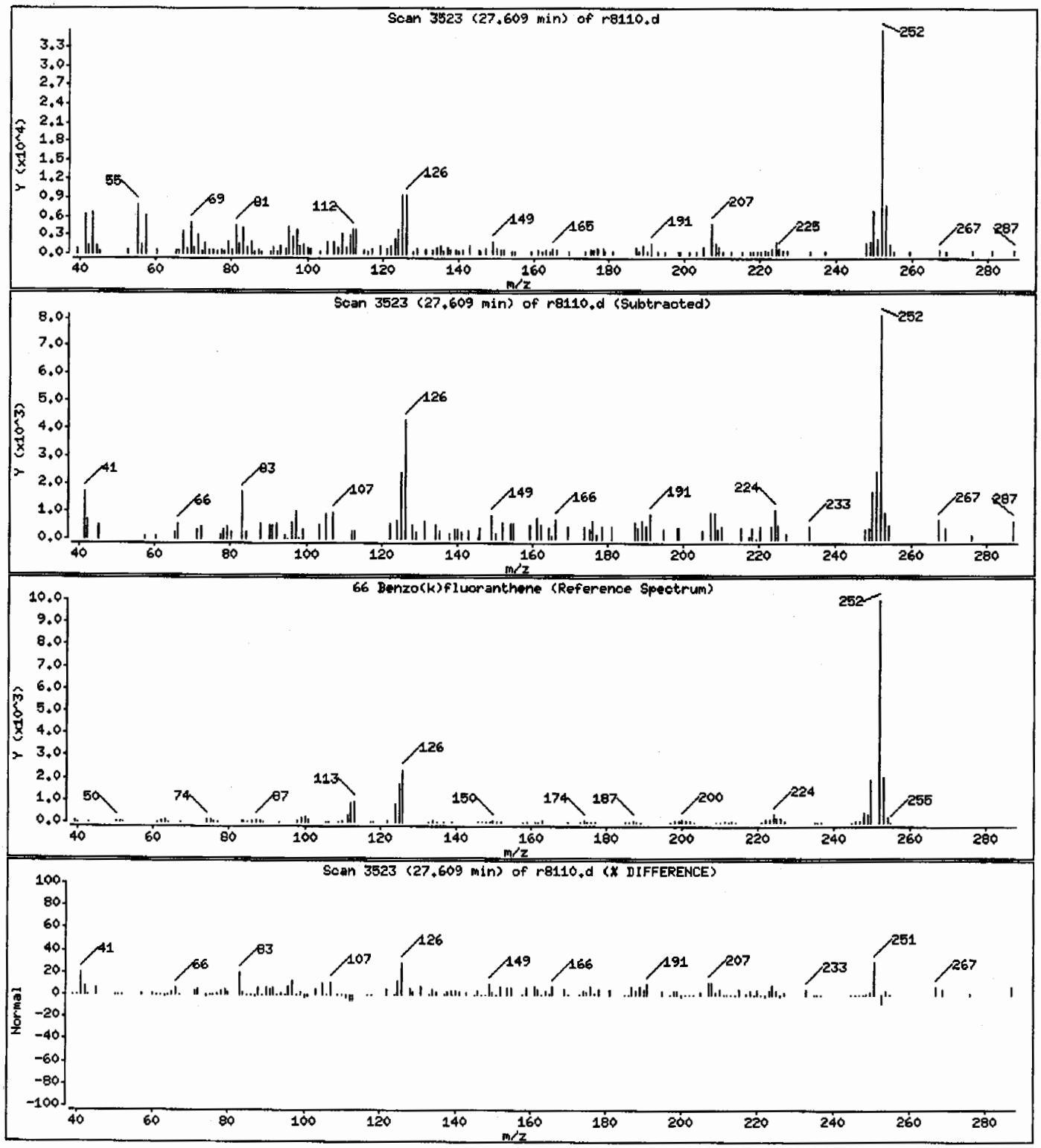
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

66 Benzo(k)fluoranthene Concentration: 100 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

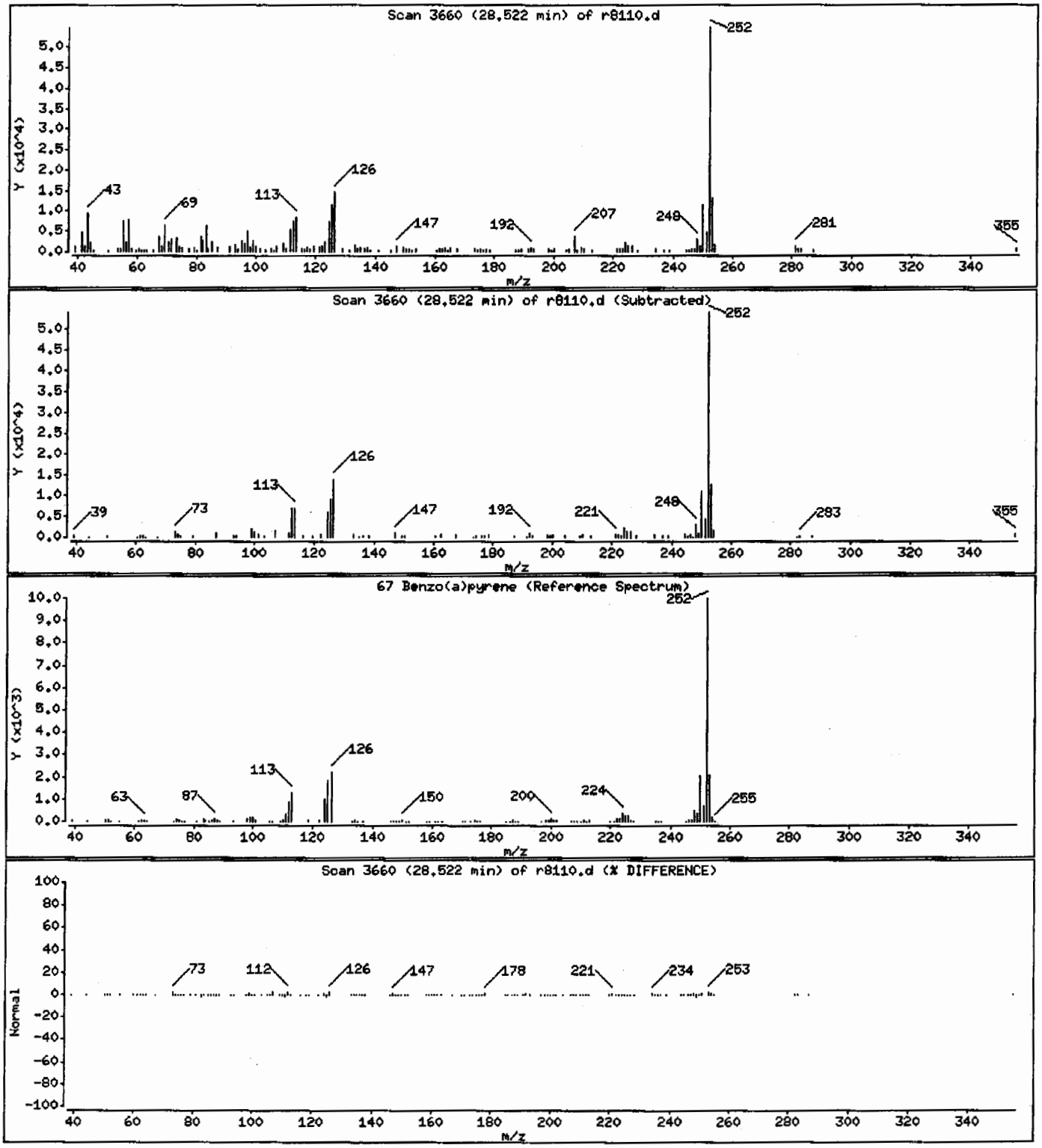
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

67 Benzo(a)pyrene Concentration: 160 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

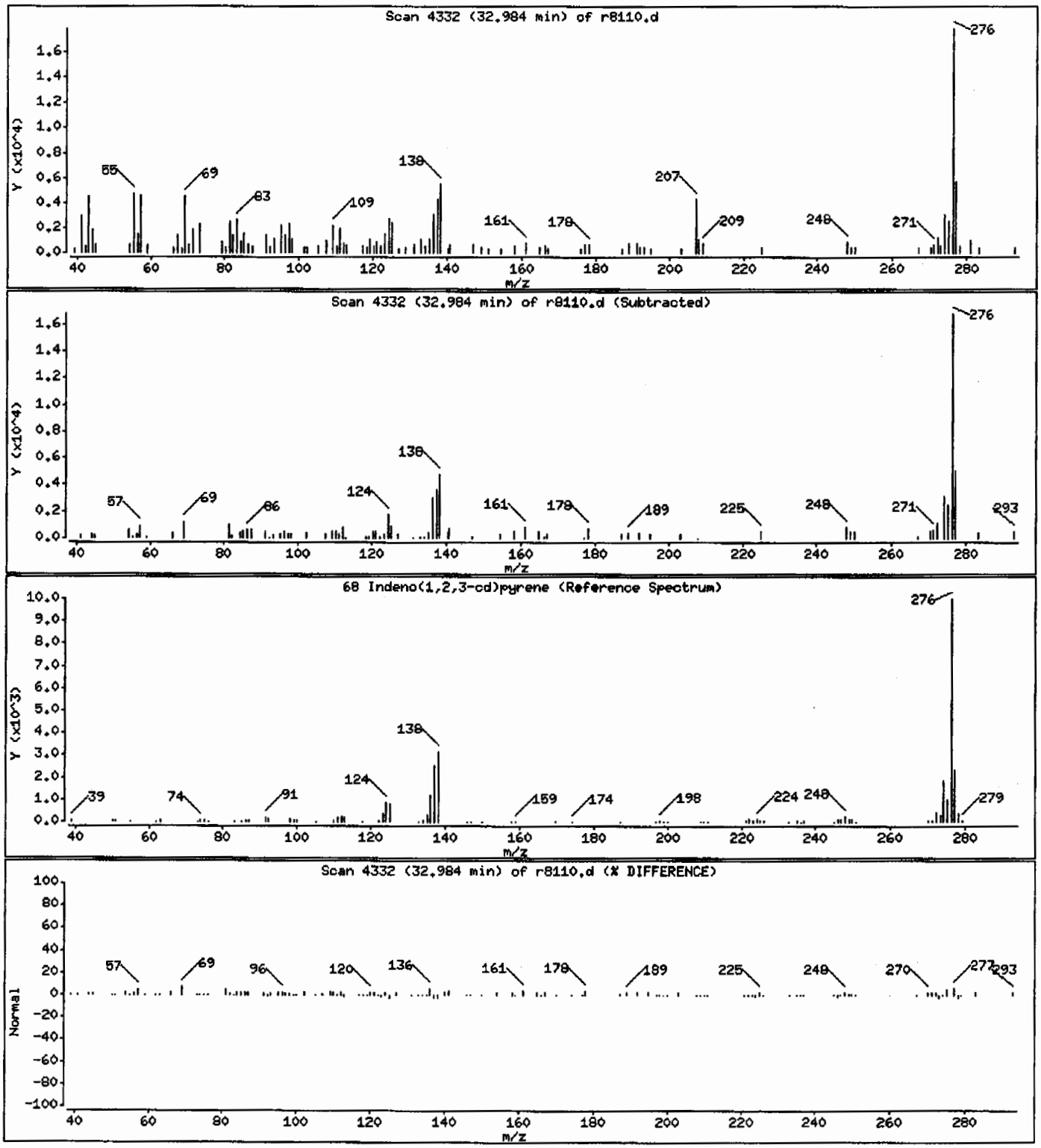
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

68 Indeno(1,2,3-cd)pyrene Concentration: 80 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

Client ID: HA-02-03-0-6

Instrument: BNAMS1.i

Sample Info: 392319;888472

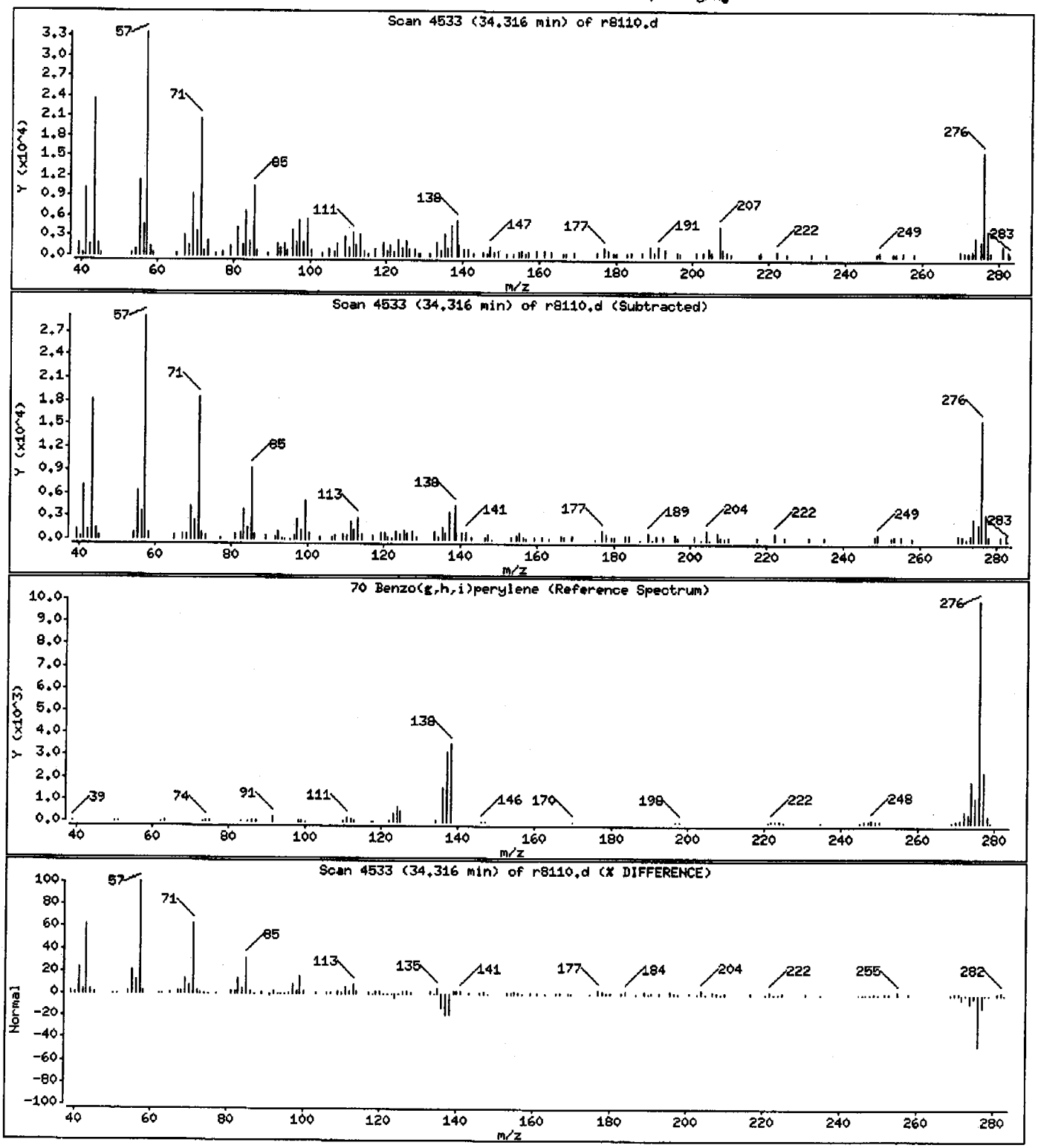
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 79 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

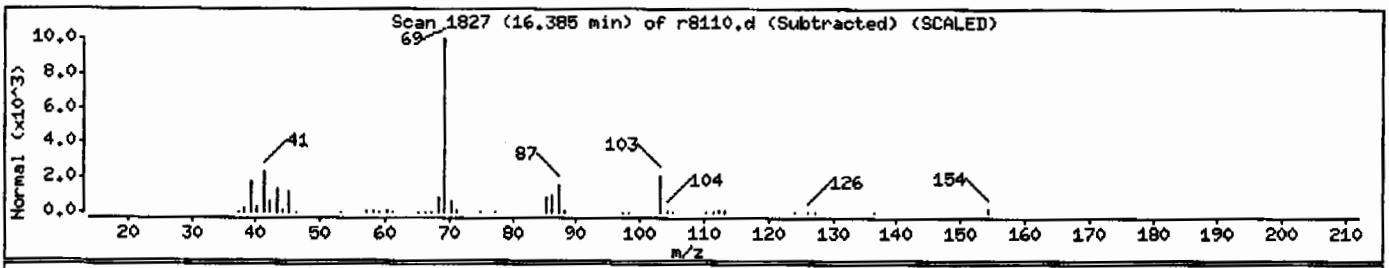
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

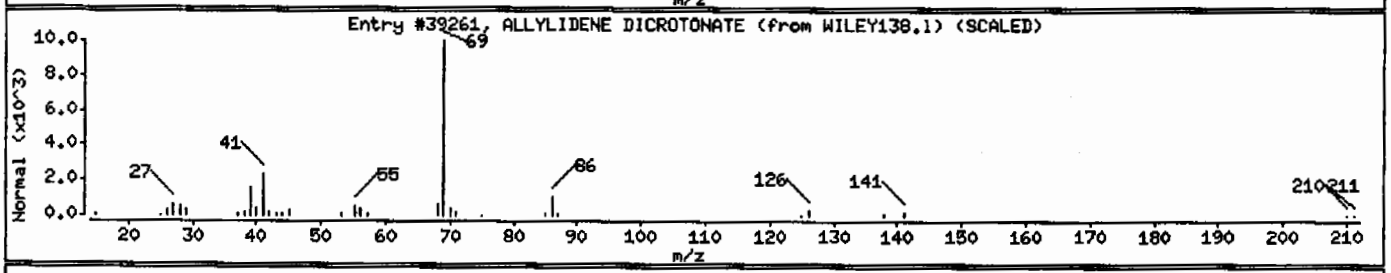
Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
ALLYLIDENE DICROTONATE	55030-70-1	WILEY138.1	39261	33	C11H1404	210





Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

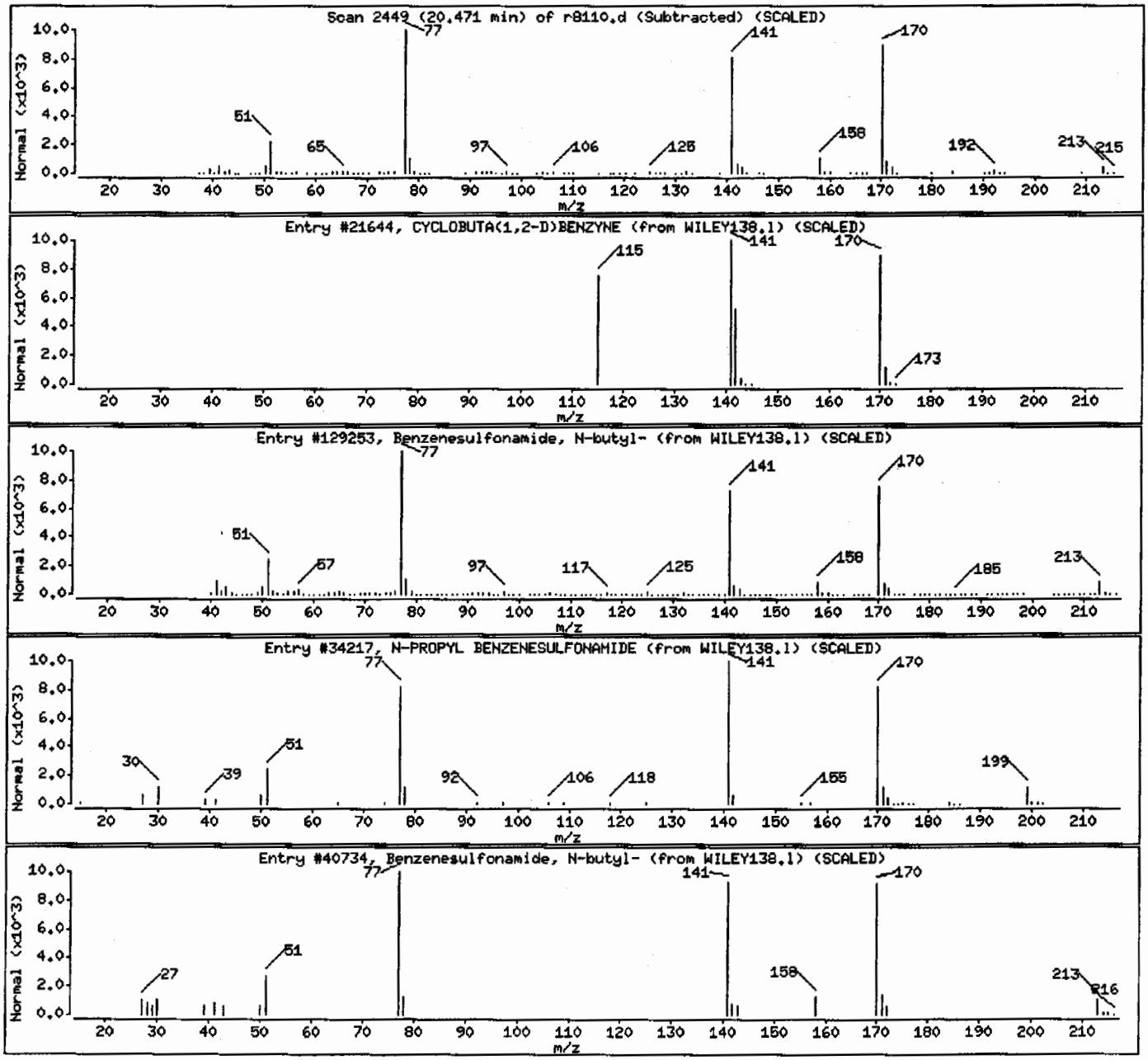
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alcohol						
CYCLOBUTA(1,2-D)BENZYNE	59817-14-0	WILEY138.1	21644	56	C12H10O	170
Benzenesulfonamide, N-butyl-	3622-84-2	WILEY138.1	129253	55	C10H15NO2S	213
N-PROPYL BENZENESULFONAMIDE	0-00-0	WILEY138.1	34217	50	C9H13NO2S	199
Benzenesulfonamide, N-butyl-	3622-84-2	WILEY138.1	40734	43	C10H15NO2S	213



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

Client ID: HA-02-03-0-6

Instrument: BNAMS1.i

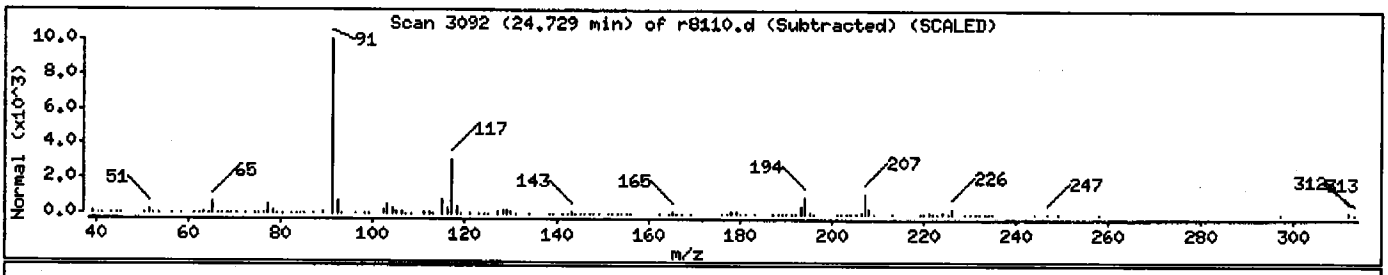
Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

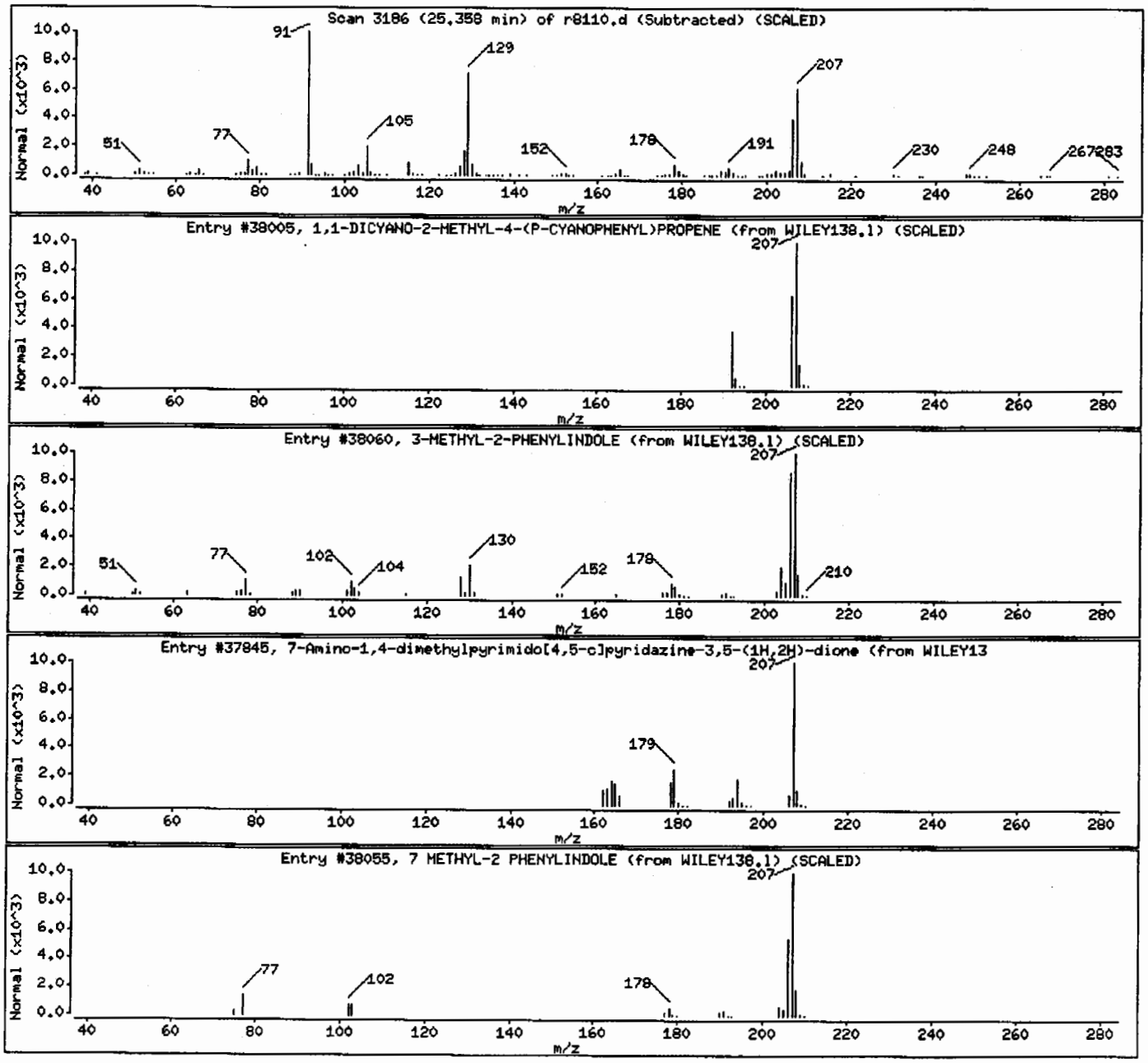
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1-DICYANO-2-METHYL-4-(P-CYANOPHENYL)PR	0-00-0	WILEY138.1	38005	78	C13H9N3	207
3-METHYL-2-PHENYLINDOLE	10257-92-8	WILEY138.1	38060	43	C15H13N	207
7-Amino-1,4-dimethylpyrimido[4,5-c]pyrid	70311-96-5	WILEY138.1	37845	43	C8H9N5O2	207
7 METHYL-2 PHENYLINDOLE	0-00-0	WILEY138.1	38055	38	C15H13N	207



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

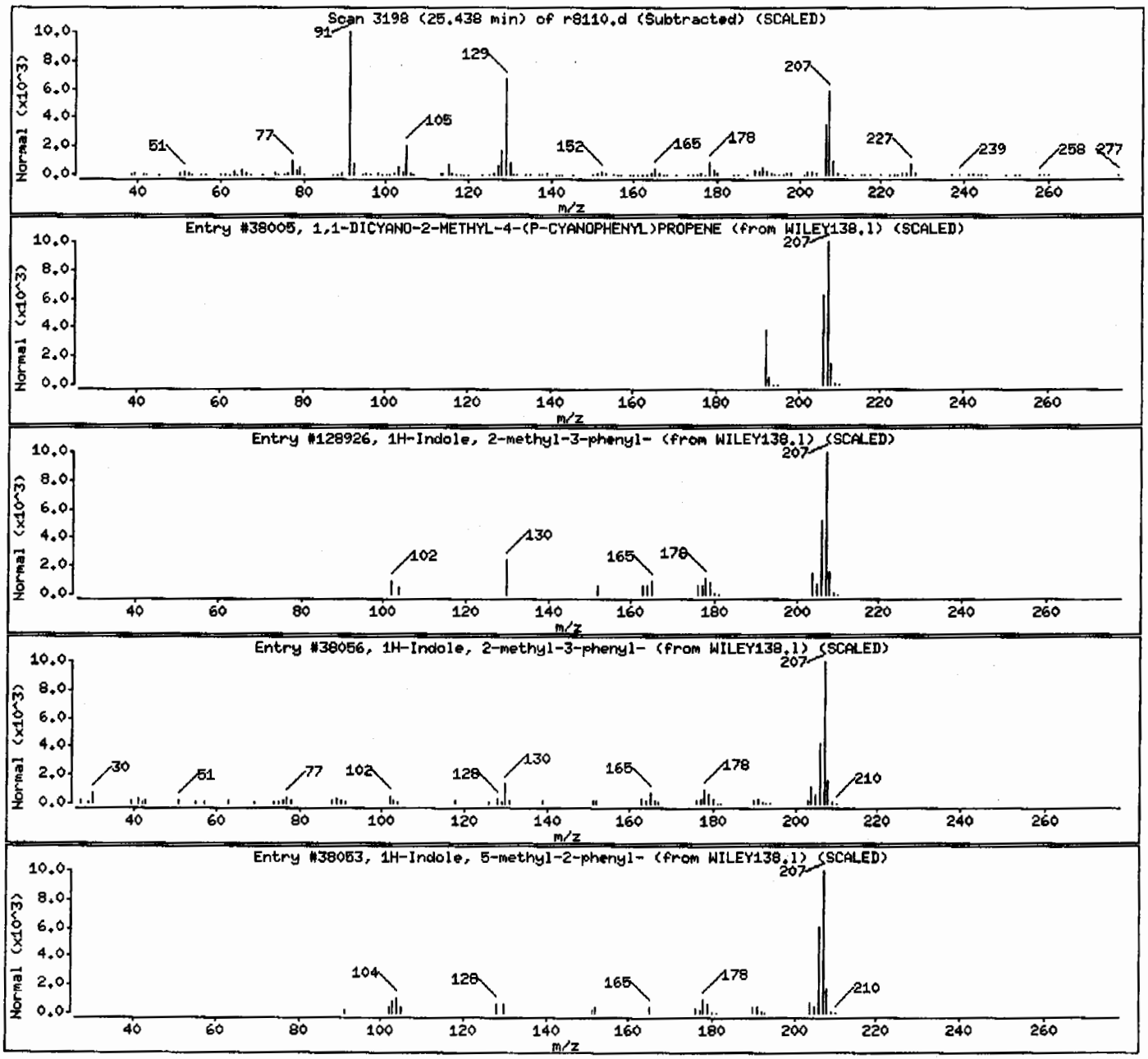
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1-DICYANO-2-METHYL-4-(P-CYANOPHENYL)PR	0-00-0	WILEY138.1	38005	78	C13H9N3	207
1H-Indole, 2-methyl-3-phenyl-	4757-69-1	WILEY138.1	128926	46	C15H13N	207
1H-Indole, 2-methyl-3-phenyl-	4757-69-1	WILEY138.1	38056	42	C15H13N	207
1H-Indole, 5-methyl-2-phenyl-	13228-36-9	WILEY138.1	38053	41	C15H13N	207



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

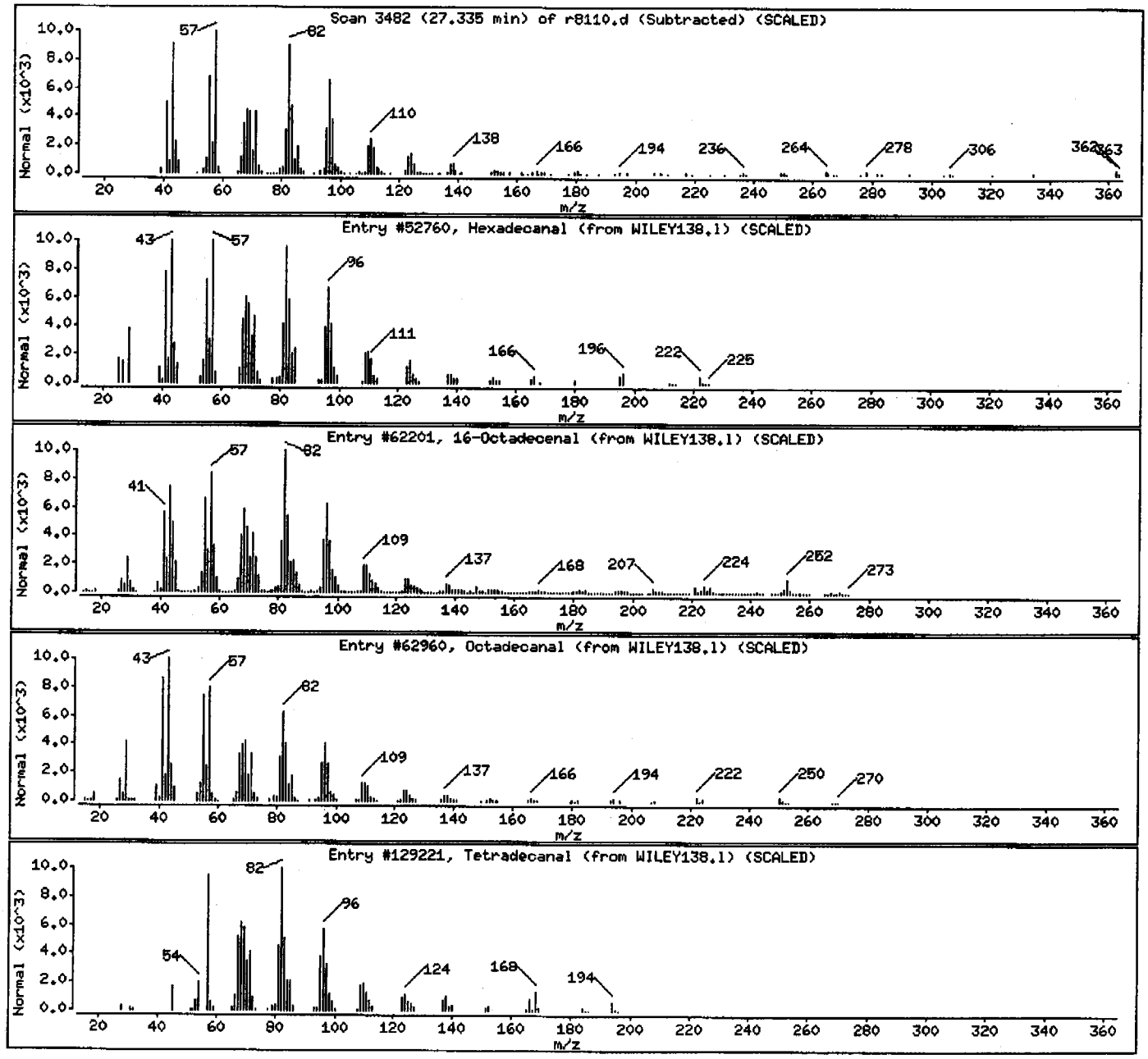
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Hexadecanal	629-80-1	WILEY138.1	52760	91	C16H32O	240
16-Octadecenal	56554-87-1	WILEY138.1	62201	86	C18H34O	266
Octadecanal	638-66-4	WILEY138.1	62960	83	C18H36O	268
Tetradecanal	124-25-4	WILEY138.1	129221	80	C14H28O	212



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

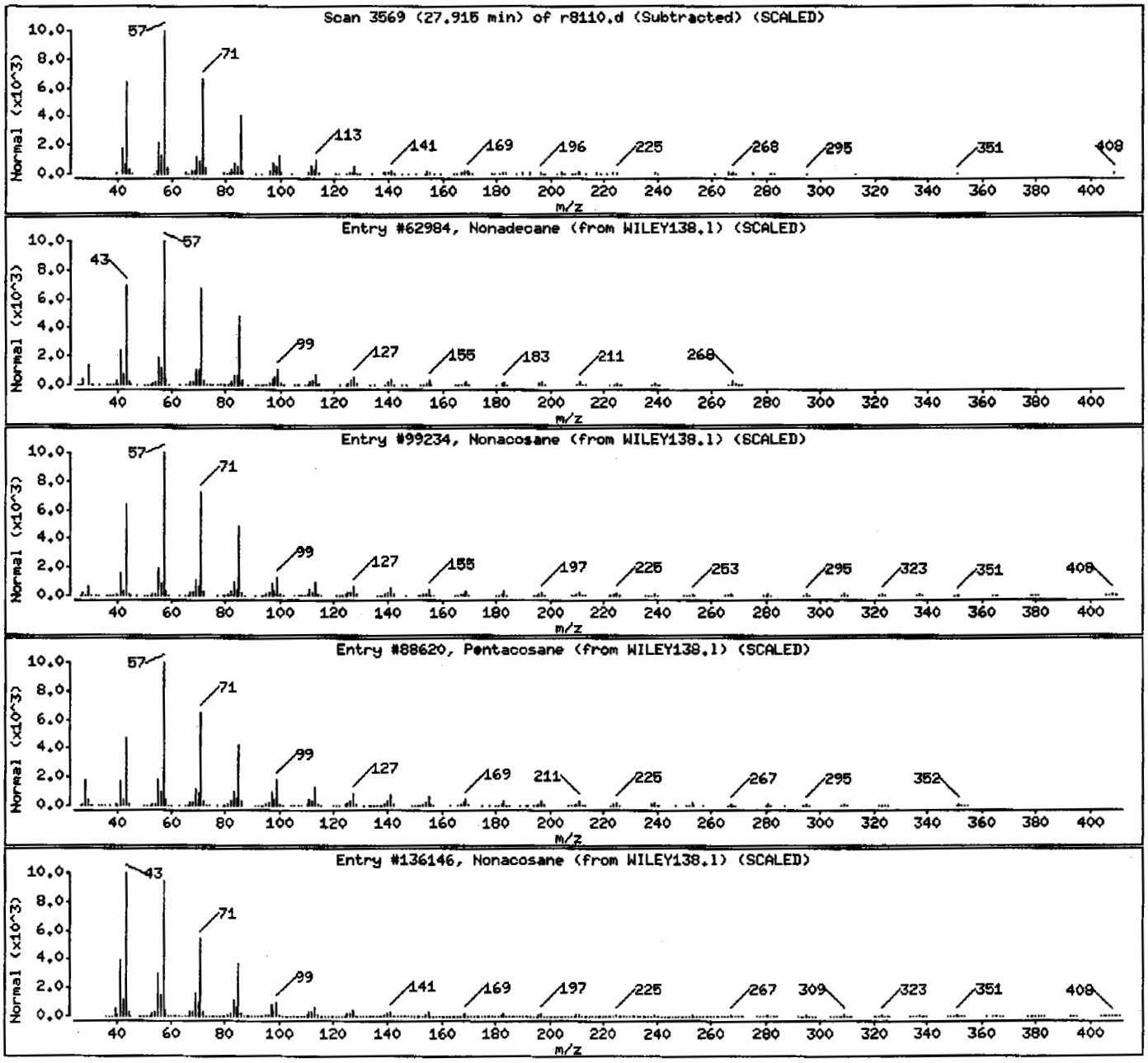
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319:888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Nonadecane	629-92-5	WILEY138.1	62984	95	C19H40	268
Nonacosane	630-03-5	WILEY138.1	99234	94	C29H60	408
Pentacosane	629-99-2	WILEY138.1	88620	91	C25H52	352
Nonacosane	630-03-5	WILEY138.1	136146	91	C29H60	408



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

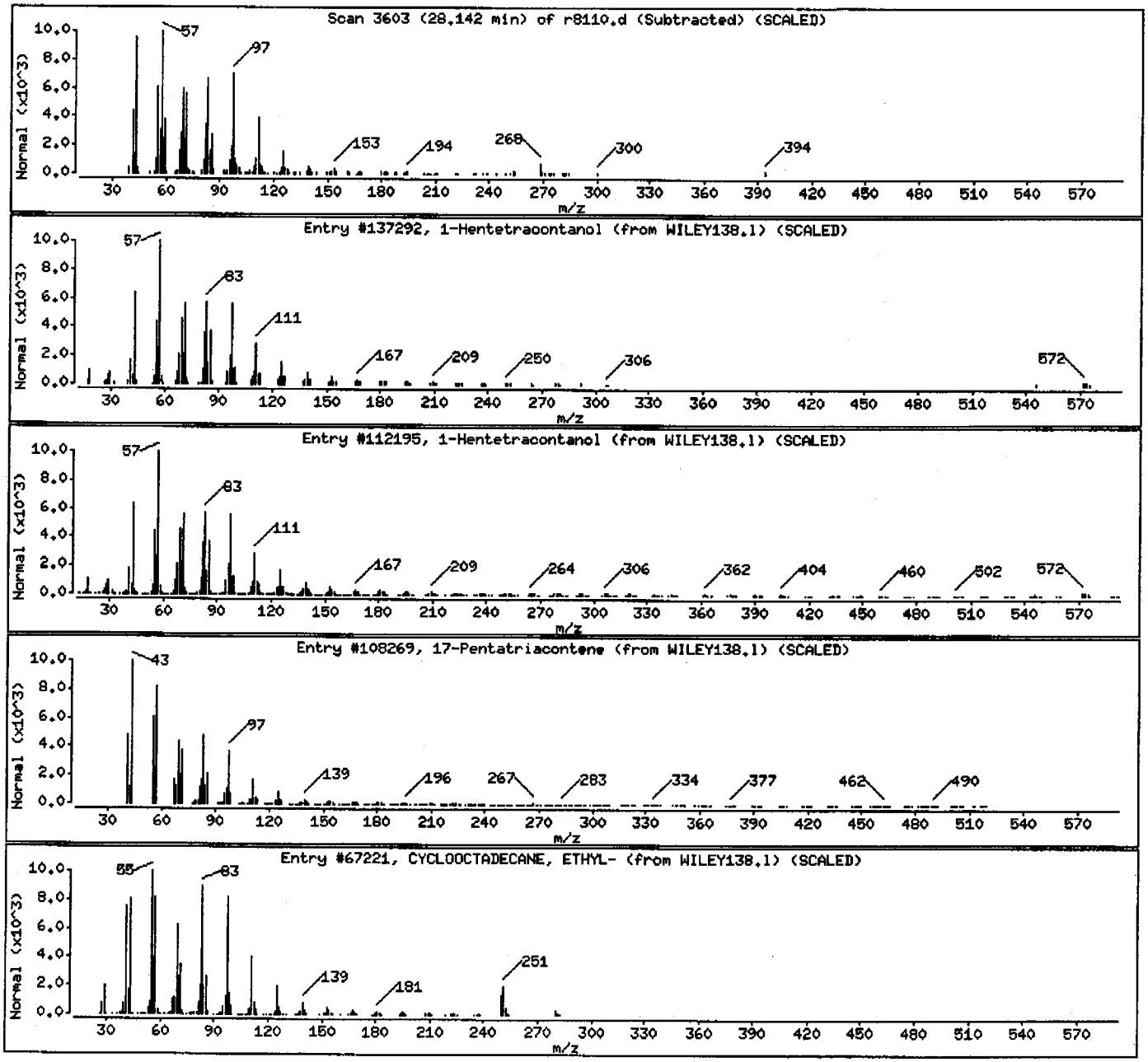
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hentetracontanol	40710-42-7	WILEY138.1	137292	62	C41H84O	593
1-Hentetracontanol	40710-42-7	WILEY138.1	112195	58	C41H84O	593
17-Pentatriacontene	6971-40-0	WILEY138.1	108269	52	C35H70	491
CYCLOOCTADECANE, ETHYL-	0-00-0	WILEY138.1	67221	46	C20H40	280



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

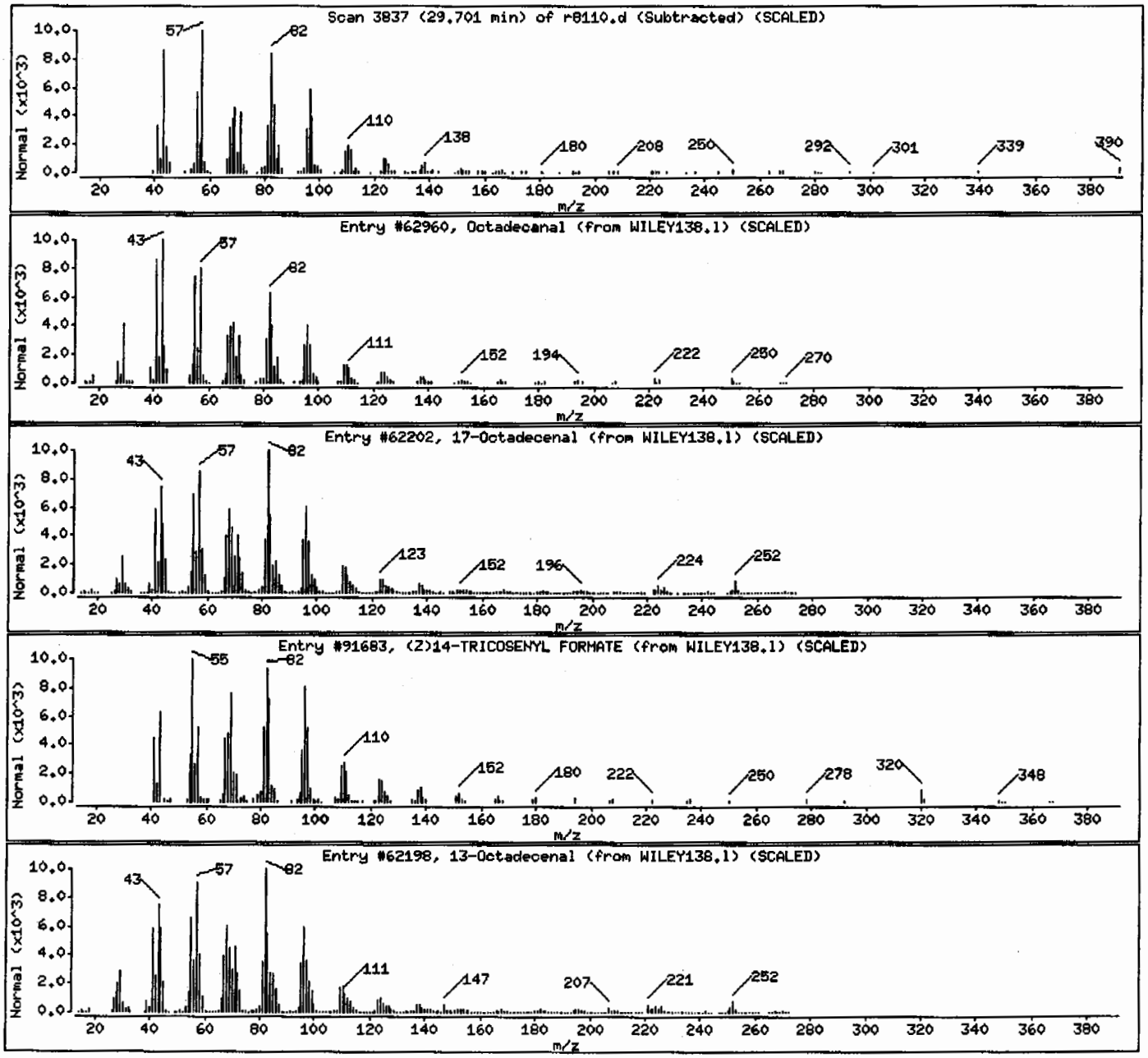
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octadecanal	638-66-4	WILEY138.1	62960	90	C18H36O	268
17-Octadecenal	56554-86-0	WILEY138.1	62202	90	C18H34O	266
(Z)14-TRICOSENYL FORMATE	77899-10-6	WILEY138.1	91683	86	C24H46O2	366
13-Octadecenal	56554-90-6	WILEY138.1	62198	78	C18H34O	266



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

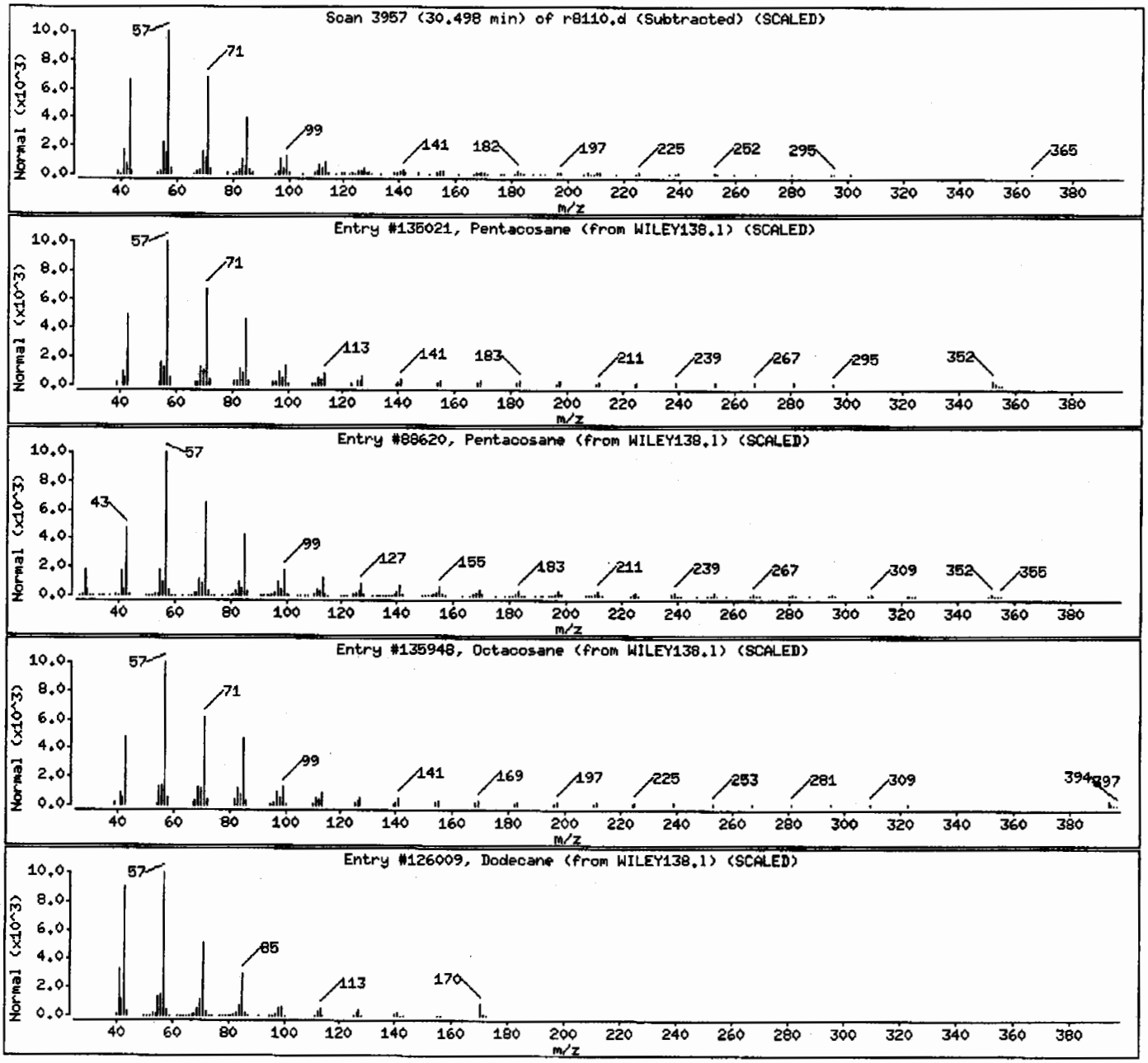
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Pentacosane	629-99-2	WILEY138.1	135021	91	C25H52	352
Pentacosane	629-99-2	WILEY138.1	88620	91	C25H52	352
Octacosane	630-02-4	WILEY138.1	135948	90	C28H58	394
Dodecane	112-40-3	WILEY138.1	126009	87	C12H26	170



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8110.d

Date : 06-DEC-2002 16:46

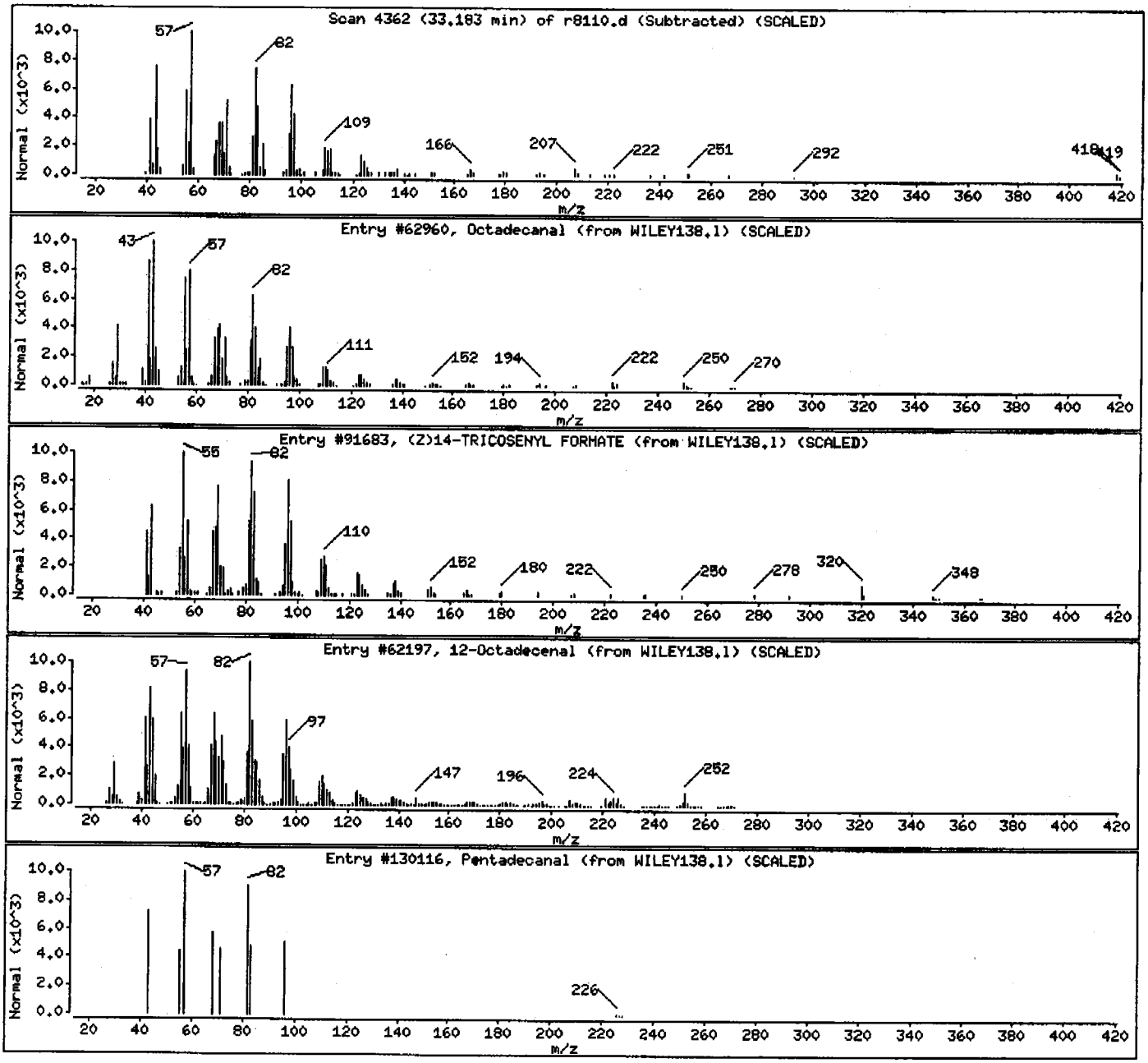
Client ID: HA-02-03-0-6 Instrument: BNAMS1.i

Sample Info: 392319;888472

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octadecanal	638-66-4	WILEY138.1	62960	83	C18H36O	268
(Z)14-TRICOSENYL FORMATE	77899-10-6	WILEY138.1	91683	64	C24H46O2	366
12-Octadecenal	56554-91-7	WILEY138.1	62197	53	C18H34O	266
Pentadecanal	0-00-0	WILEY138.1	130116	50	C15H30O	226



Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8128.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8128.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	23 J	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	75
2-Methylnaphthalene	12 J	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	750
Dimethylphthalate	ND	380
Acenaphthylene	54 J	380
2,6-Dinitrotoluene	ND	75
3-Nitroaniline	ND	750
Acenaphthene	14 J	380
Dibenzofuran	29 J	380
2,4-Dinitrotoluene	ND	75
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	30 J	380
4-Nitroaniline	ND	750
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	380	380
Anthracene	34 J	380

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8128.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	46 J	380
Di-n-butylphthalate	ND	380
Fluoranthene	440	380
Pyrene	380	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	750
Benzo(a)anthracene	140	38
Chrysene	200 J	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	250	38
Benzo(k)fluoranthene	92	38
Benzo(a)pyrene	160	38
Indeno(1,2,3-cd)pyrene	65	38
Dibenz(a,h)anthracene	21 J	38
Benzo(g,h,i)perylene	60 J	380

Client ID: **HA-02-02-0-6**
Site: Earle NWS Closure

Lab Sample No: **392320**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8128.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.5

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Organic Acid	9.73	310	
2. Unknown	24.80	340	
3. Unknown	26.18	540	
4. Unknown	27.35	840	
5. Unknown Alkane	27.93	660	
6. Unknown	28.04	1400	
7. Unknown	29.71	610	
8. Unknown Alkane	30.52	960	
9. Unknown	33.22	560	
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 6220

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d
Report Date: 08-Dec-2002 07:02

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d
Lab Smp Id: 392320 Client Smp ID: HA-02-02-0-6
Inj Date : 07-DEC-2002 16:45
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392320;888507
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/8270c1.m
Meth Date : 07-Dec-2002 07:19 wahied Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	11.50000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.630	10.594	(0.814)	1752098	68.7411	5200
$ 17 Phenol-d5 (SUR)	99	12.427	12.418	(0.951)	2084150	73.2313	5500
* 79 1,4-Dichlorobenzene-d4	152	13.066	13.062	(1.000)	536230	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.020	14.022	(0.919)	853761	38.4966	2900
* 80 Naphthalene-d8	136	15.251	15.246	(1.000)	2272226	40.0000	
31 Naphthalene	128	15.284	15.285	(1.002)	19192	0.30723	23(a)
34 2-Methylnaphthalene	142	16.443	16.443	(1.078)	5698	0.16589	12(a)
$ 77 2-Fluorobiphenyl (SUR)	172	17.049	17.044	(0.937)	1701085	37.5811	2800
39 Acenaphthylene	152	17.953	17.955	(0.987)	40432	0.71780	54(a)
* 82 Acenaphthene-d10	164	18.191	18.185	(1.000)	1391122	40.0000	
42 Acenaphthene	154	18.237	18.245	(1.003)	6869	0.18498	14(a)
43 Dibenzofuran	168	18.521	18.529	(1.018)	22027	0.38942	29(a)
47 Fluorene	166	19.096	19.096	(1.050)	17578	0.39184	30(a)
$ 18 2,4,6-Tribromophenol (SUR)	330	19.499	19.493	(1.072)	546631	75.8511	5700

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d
Report Date: 08-Dec-2002 07:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 83 Phenanthrene-d10	188	20.672	20.661	(1.000)	2785306	40.0000	
52 Phenanthrene	178	20.705	20.708	(1.002)	335271	5.01735	380
53 Anthracene	178	20.785	20.794	(1.005)	31411	0.45568	34(a)
54 Carbazole	167	21.038	21.038	(1.018)	35972	0.61136	46(a)
56 Fluoranthene	202	22.677	22.681	(1.097)	422259	5.80706	440
57 Pyrene	202	23.059	23.064	(0.918)	364652	5.01676	380
$ 78 Terphenyl-d14 (SUR)	244	23.300	23.282	(0.928)	1808101	39.7244	3000
61 Benzo(a)anthracene	228	25.079	25.081	(0.999)	110493	1.90648	140
* 81 Chrysene-d12	240	25.113	25.108	(1.000)	2120212	40.0000	
62 Chrysene	228	25.147	25.162	(1.001)	145091	2.68414	200(a)
65 Benzo(b)fluoranthene	252	27.550	27.564	(0.958)	185219	3.32817	250
66 Benzo(k)fluoranthene	252	27.624	27.657	(0.961)	63409	1.21958	92
67 Benzo(a)pyrene	252	28.529	28.559	(0.992)	110015	2.16115	160
* 84 Perylene-d12	264	28.757	28.738	(1.000)	1964293	40.0000	
68 Indeno(1,2,3-cd)pyrene	276	32.990	33.058	(1.147)	46817	0.85828	65(M)
69 Dibenz(a,h)anthracene	278	33.117	33.205	(1.152)	13755	0.27818	21(aM)
70 Benzo(g,h,i)perylene	276	34.336	34.441	(1.194)	44745	0.79768	60(aM)

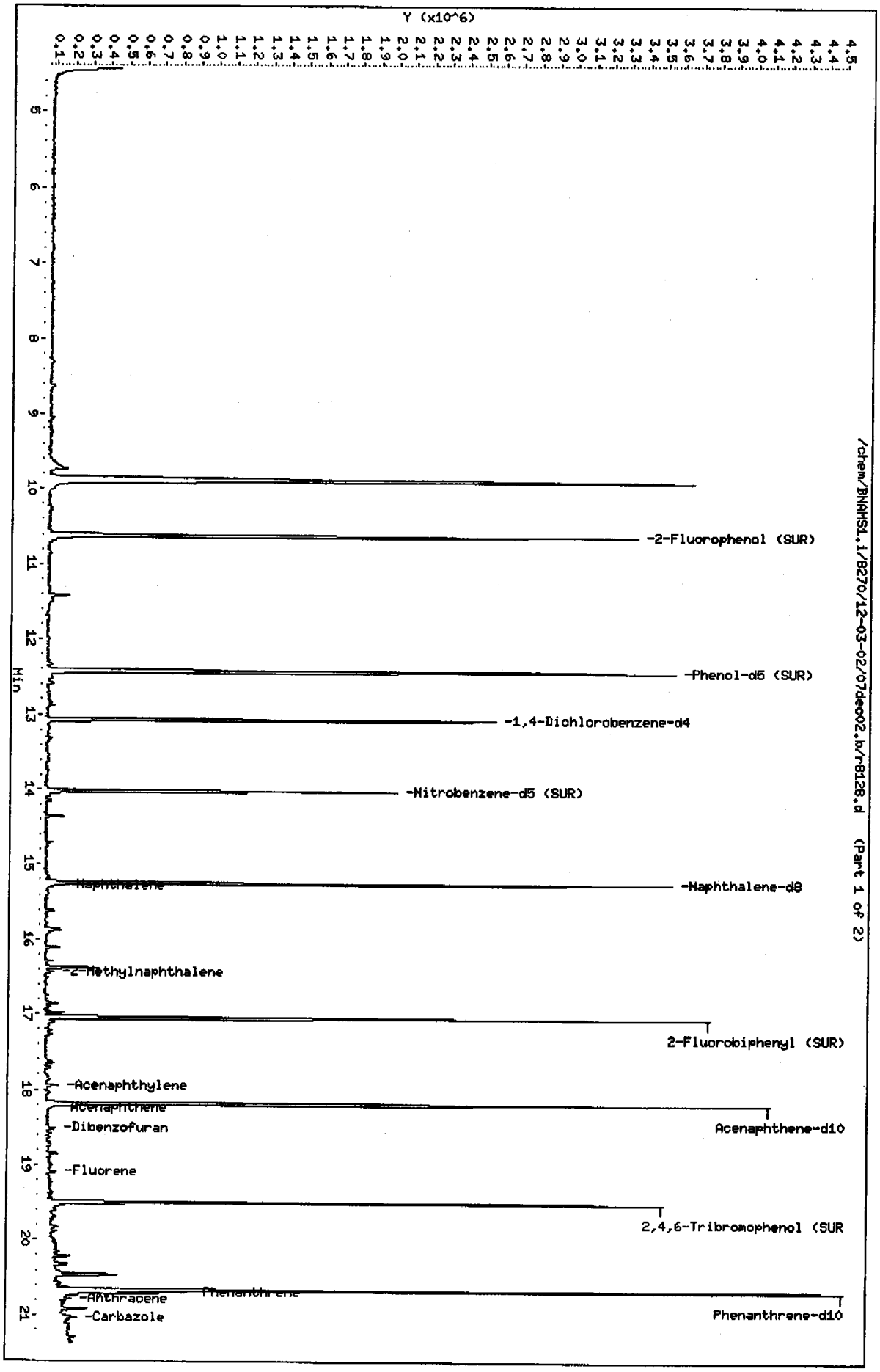
QC Flag Legend

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

Data File: /chem/BNAHS1.i/8270/12-03-02/07dec02.b/r8128.d
Date : 07-DEC-2002 16:45
Client ID: HA-02-02-0-6
Sample Info: 392320;888507

Column phase: DB-5

Instrument: BNAHS1.i
Operator: BNAHS 4
Column diameter: 0.25

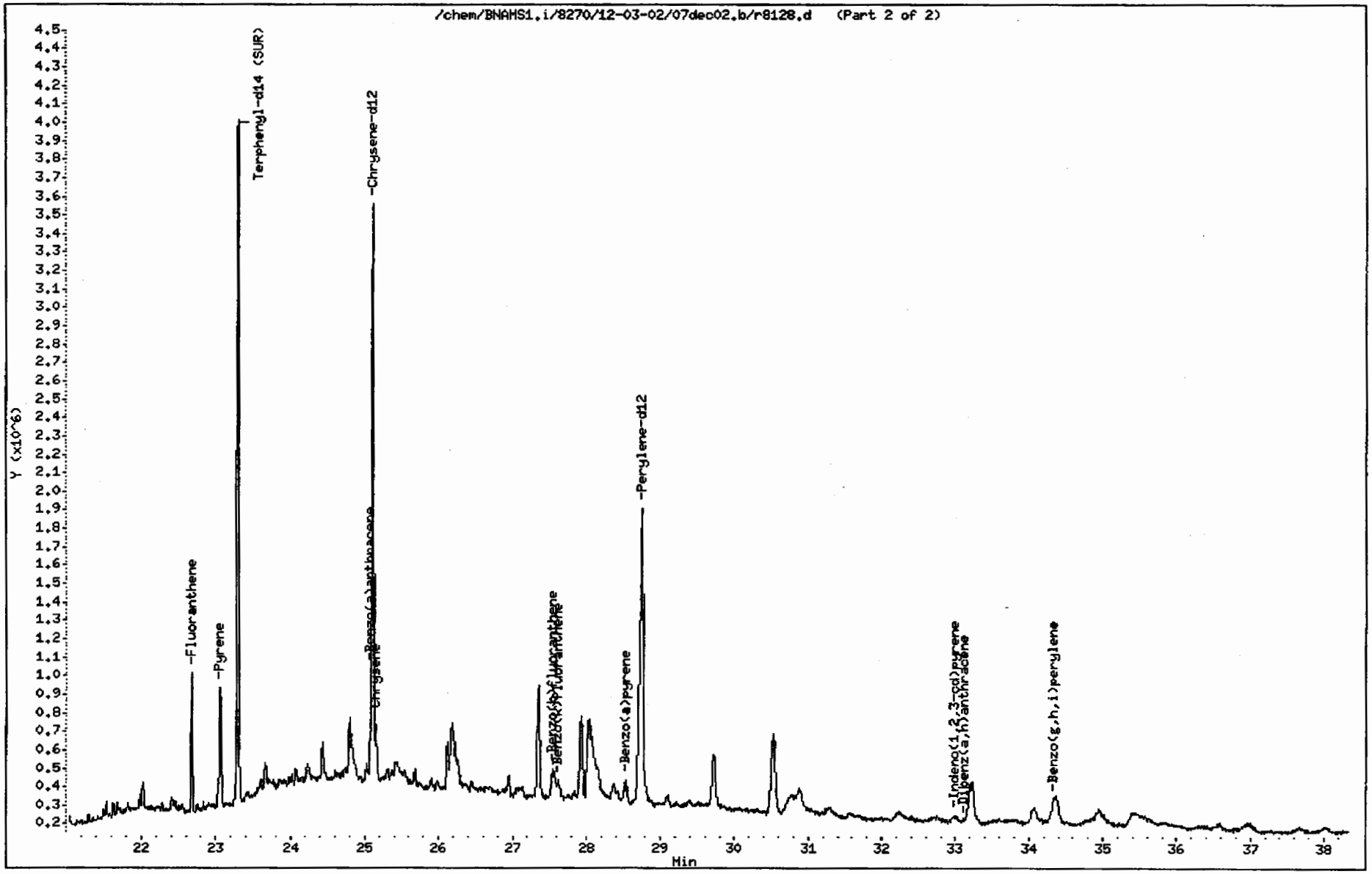


Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d
Date : 07-DEC-2002 16:45
Client ID: HA-02-02-0-6
Sample Info: 392320;888507

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

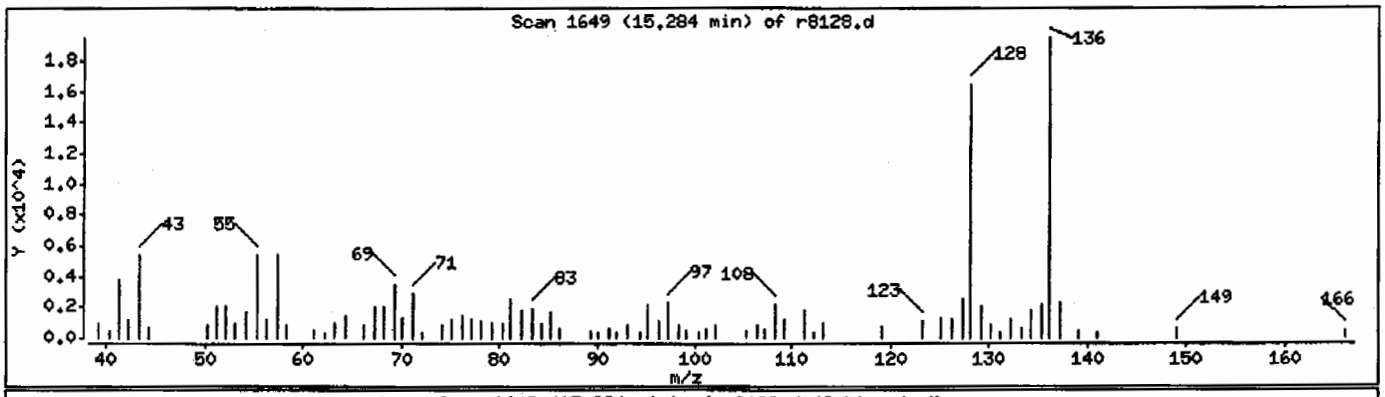
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

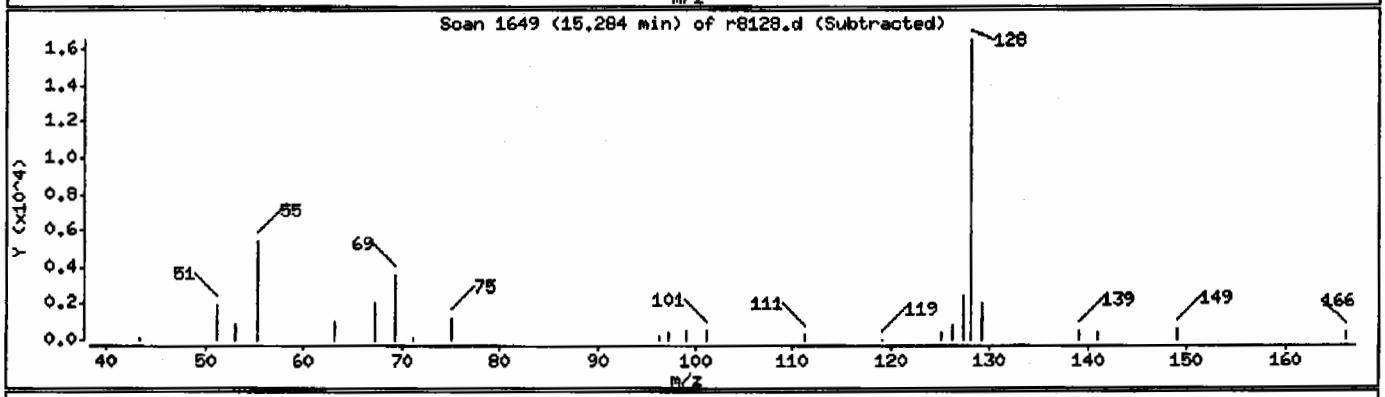
Sample Info: 392320;888507

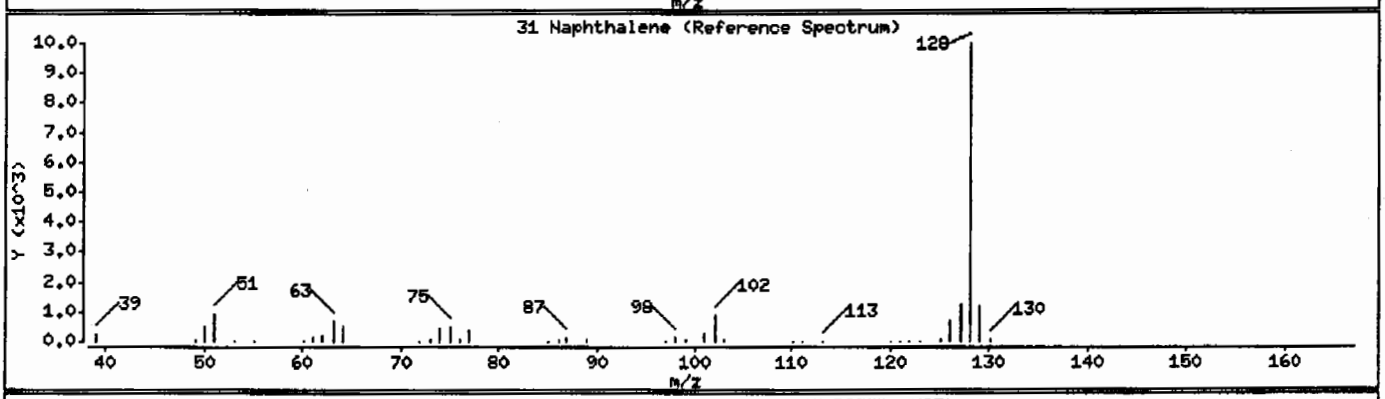
Operator: BNAMS 4

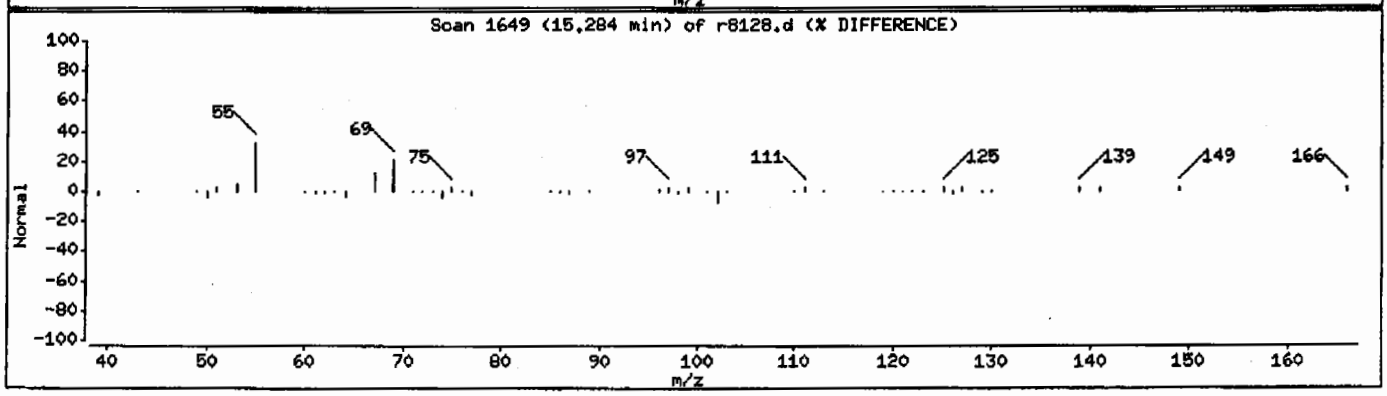
Column phase: DB-5 Column diameter: 0.25

31 Naphthalene Concentration: 23 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

Client ID: HA-02-02-0-6

Instrument: BNAMS1.i

Sample Info: 392320;888507

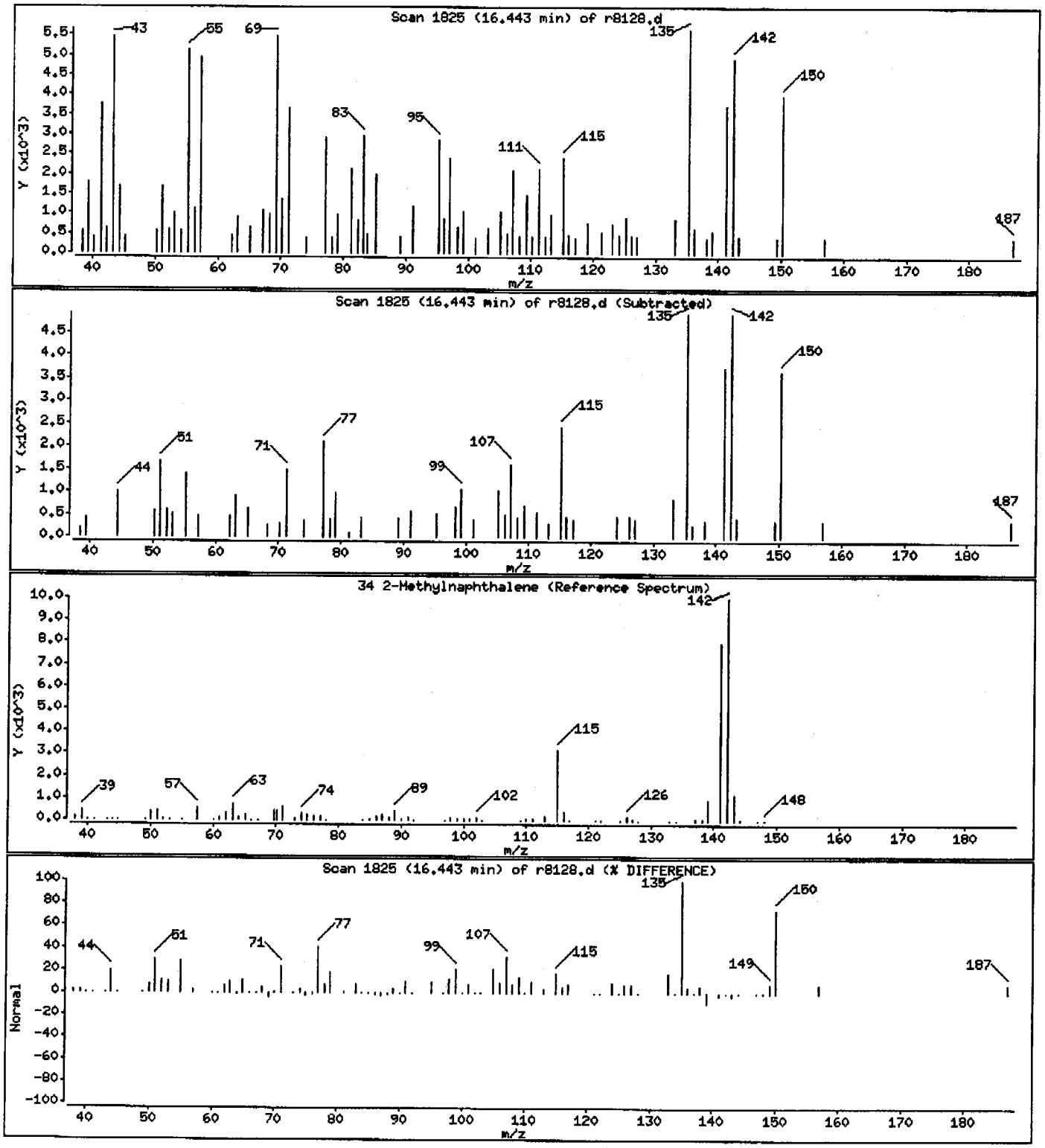
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

34 2-Methylnaphthalene

Concentration: 12 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

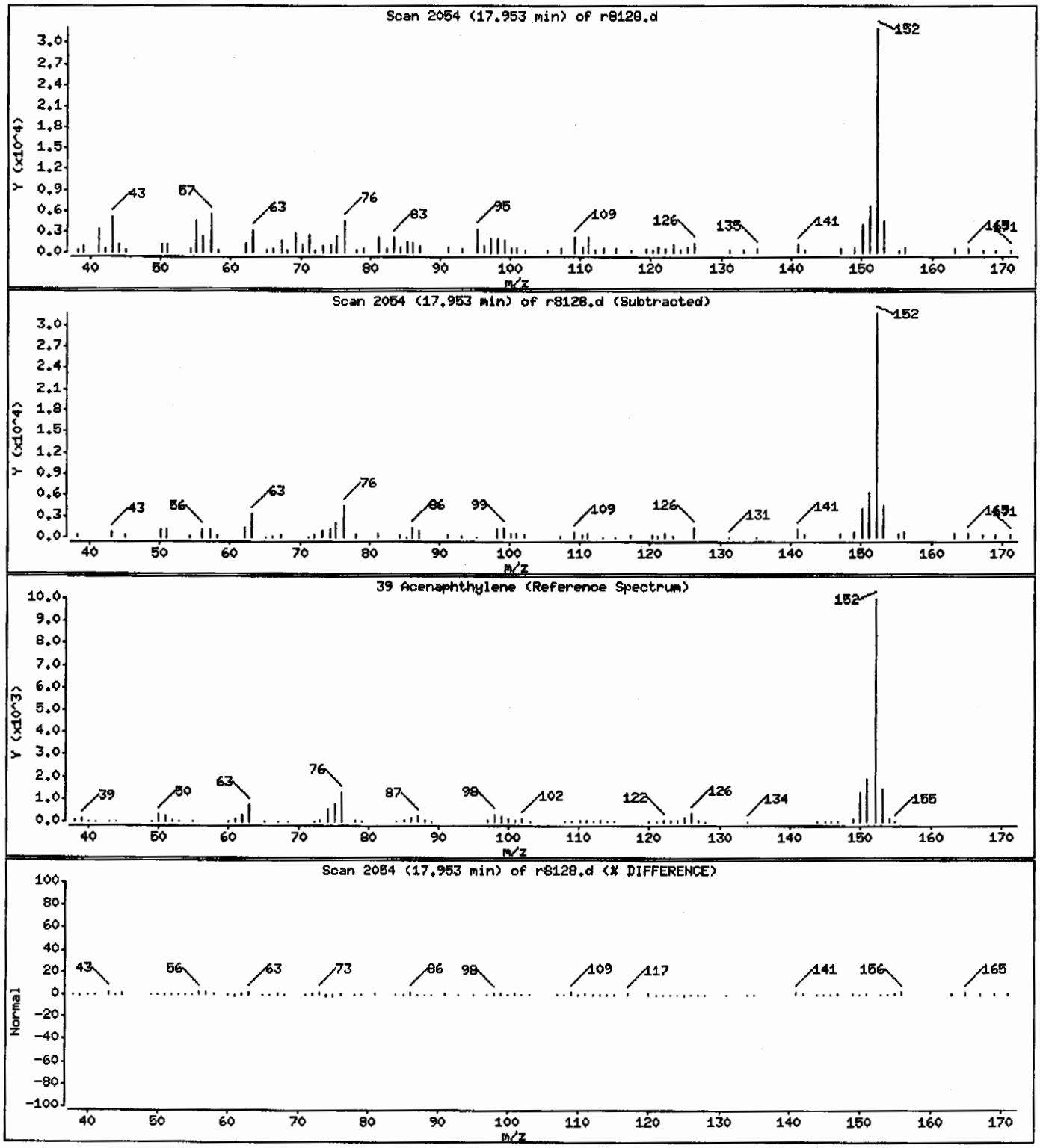
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

39 Acenaphthylene Concentration: 54 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

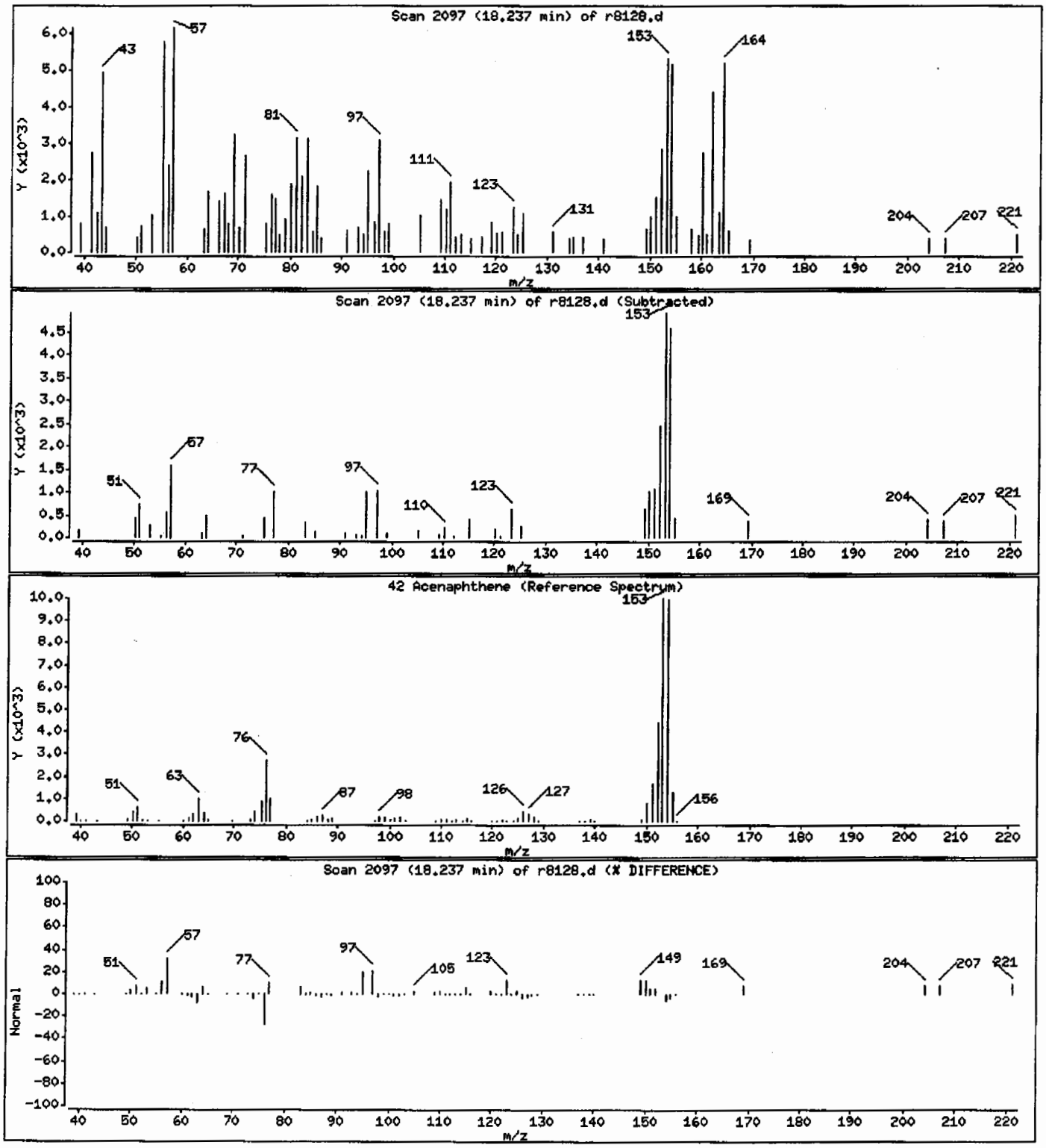
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

42 Acenaphthene Concentration: 14 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

Client ID: HA-02-02-0-6

Instrument: BNAMS1.i

Sample Info: 392320;888507

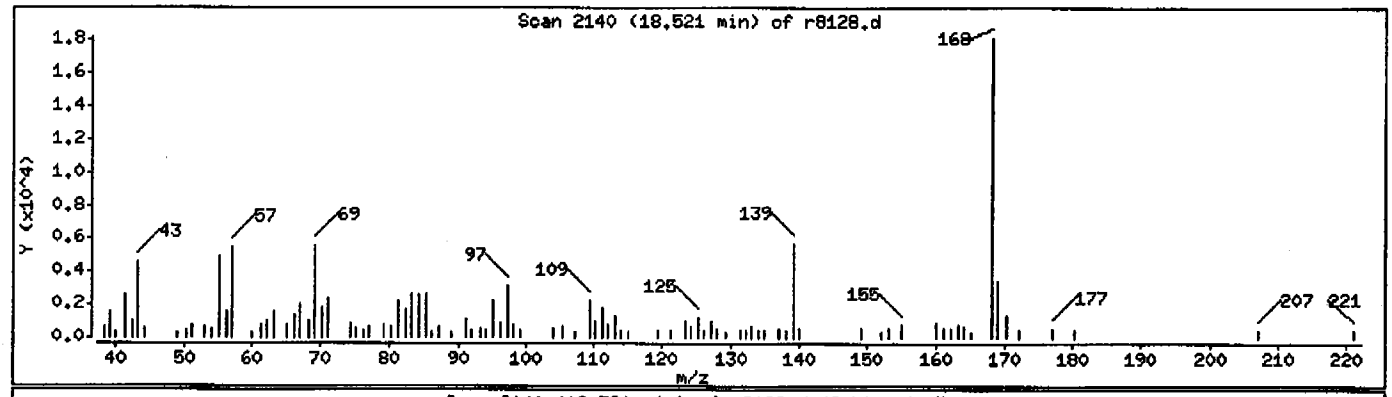
Operator: BNAMS 4

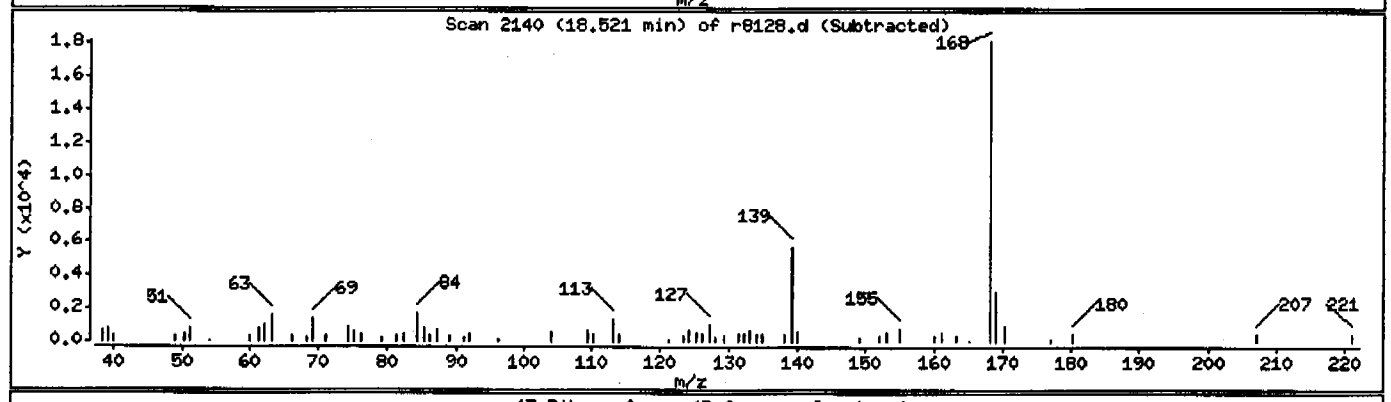
Column phase: DB-5

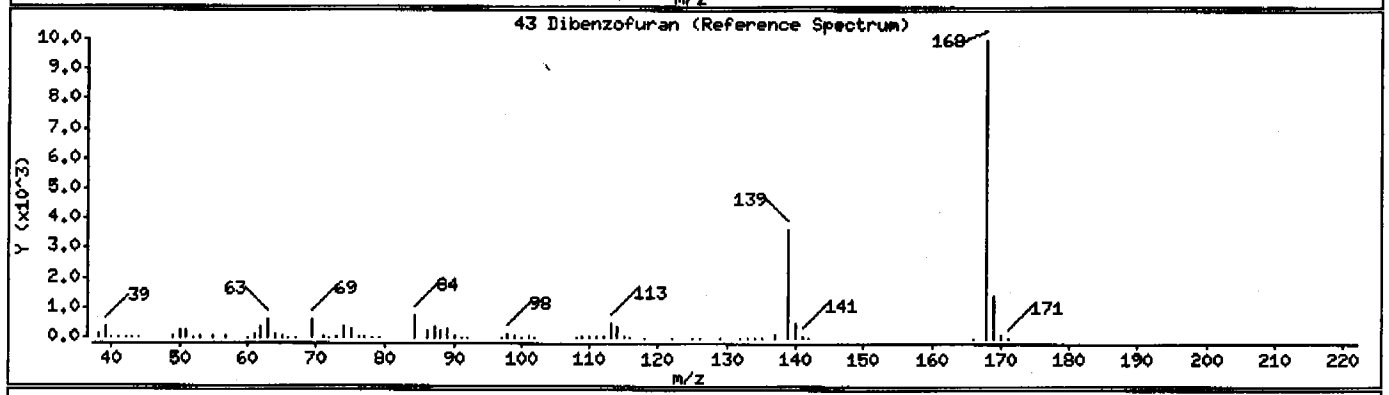
Column diameter: 0.25

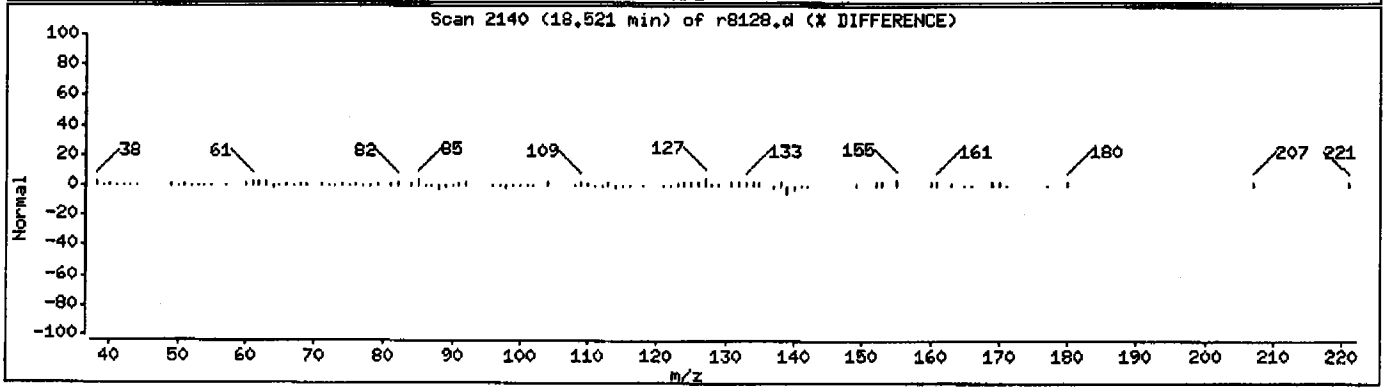
43 Dibenzofuran

Concentration: 29 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

Client ID: HA-02-02-0-6

Instrument: BNAMS1.i

Sample Info: 392320;888507

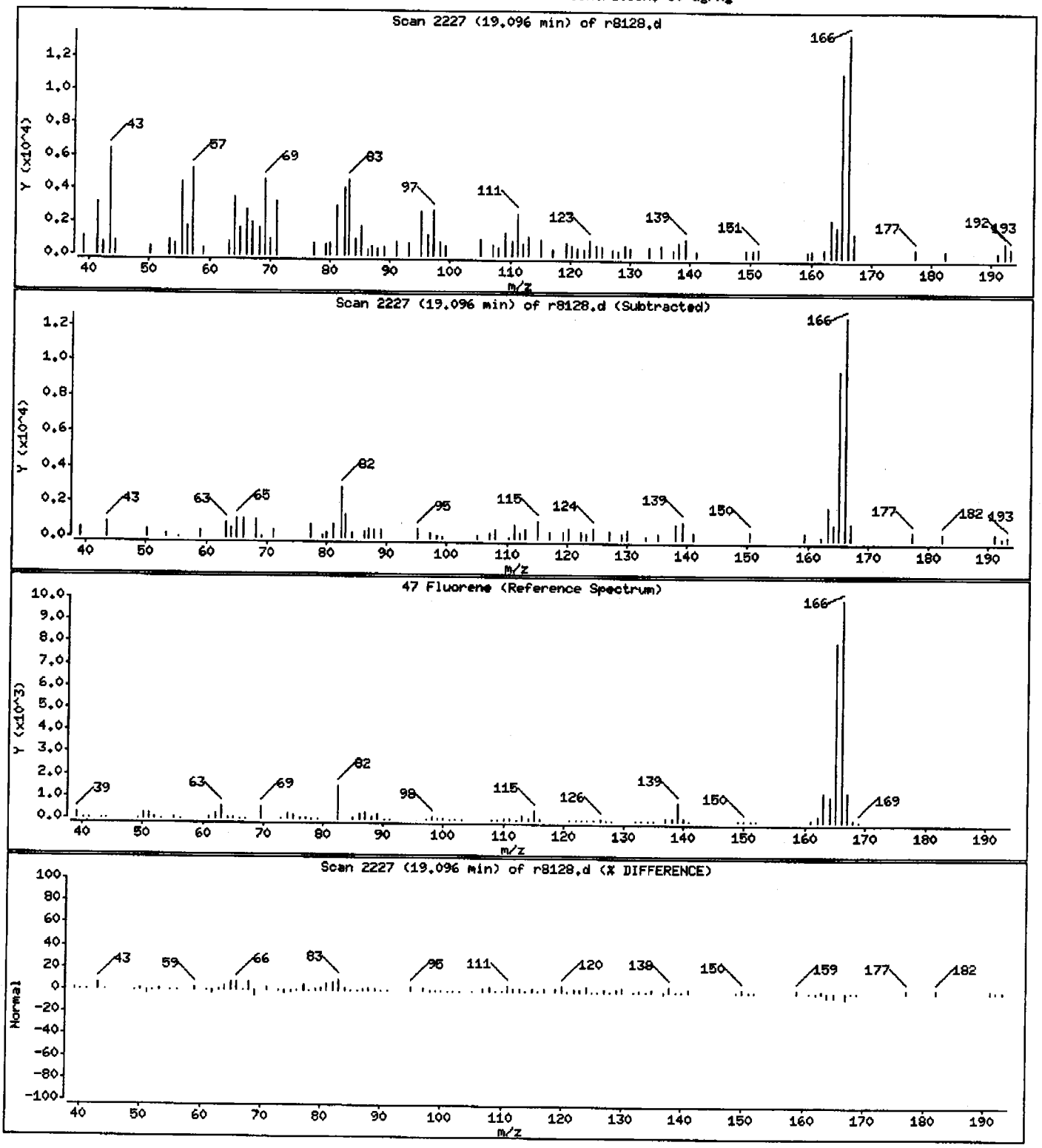
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

47 Fluorene

Concentration: 30 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

Client ID: HA-02-02-0-6

Instrument: BNAMS1.i

Sample Info: 392320;888507

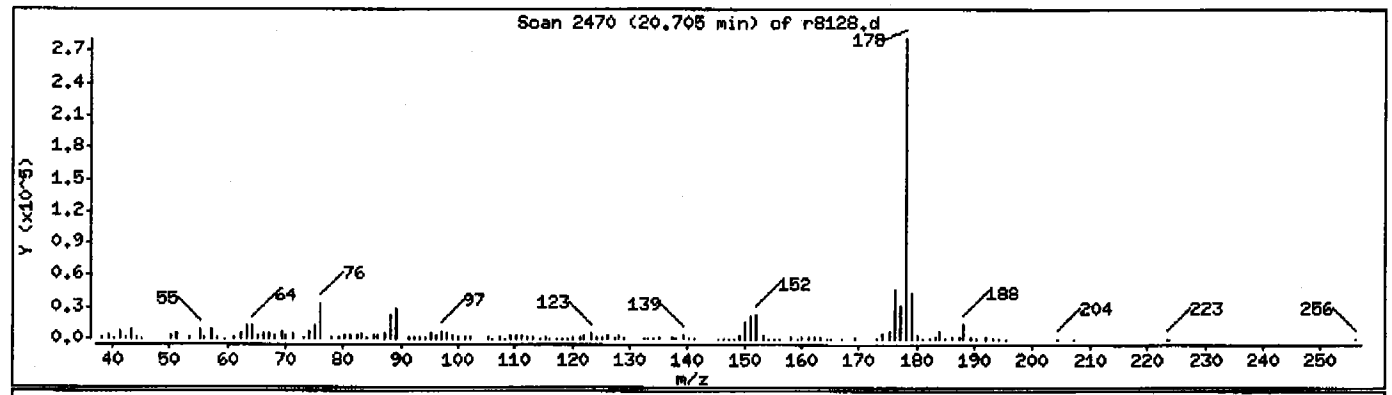
Operator: BNAMS 4

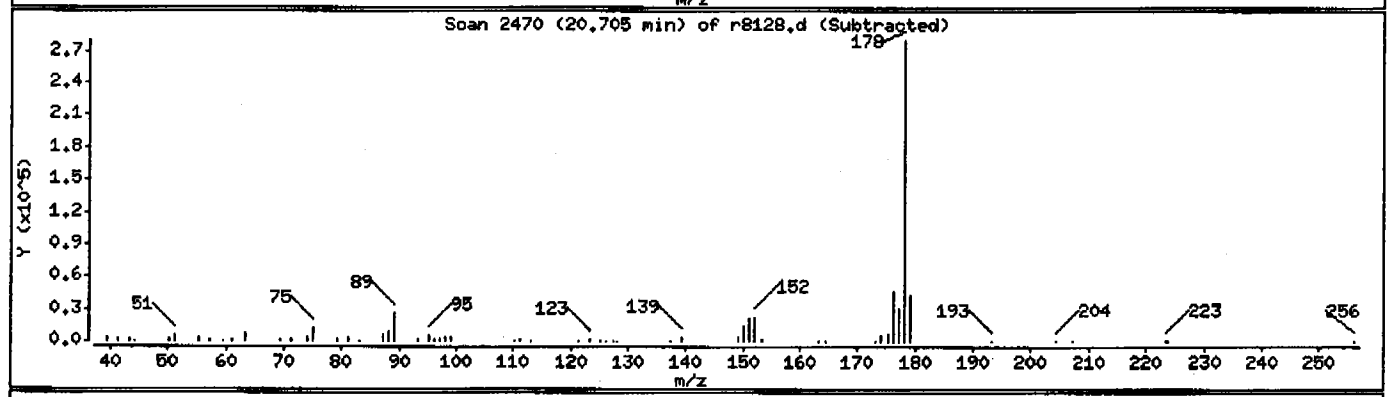
Column phase: DB-5

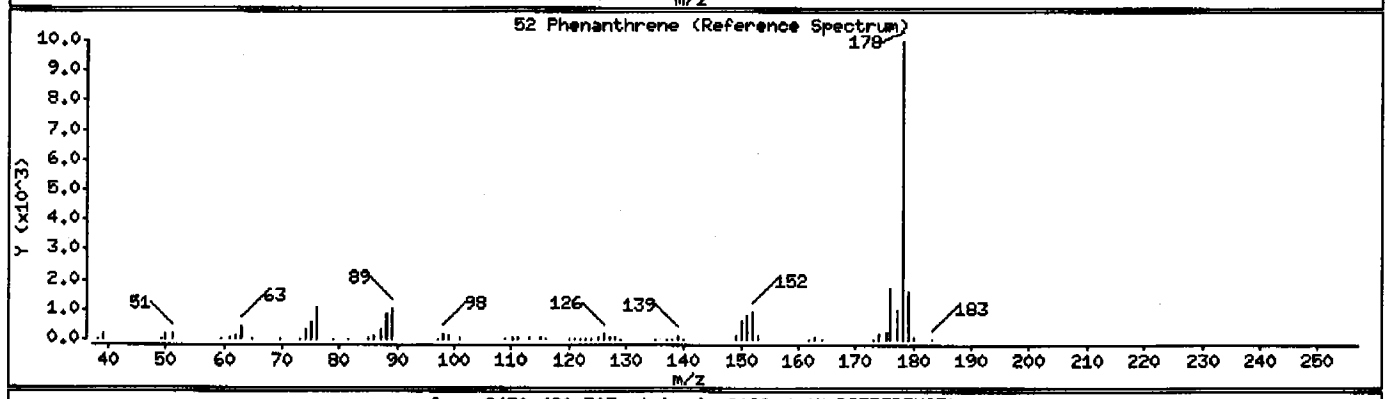
Column diameter: 0.25

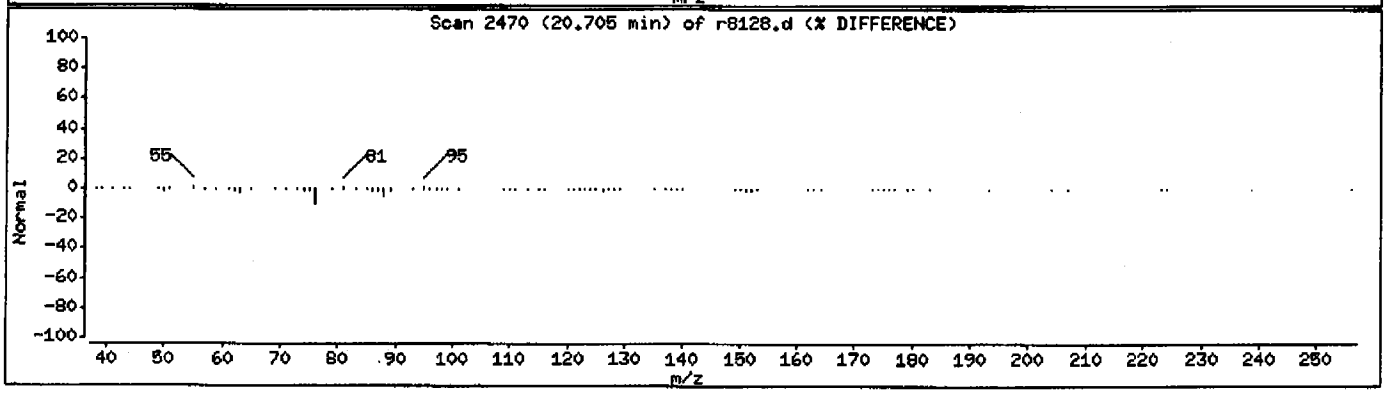
52 Phenanthrene

Concentration: 380 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

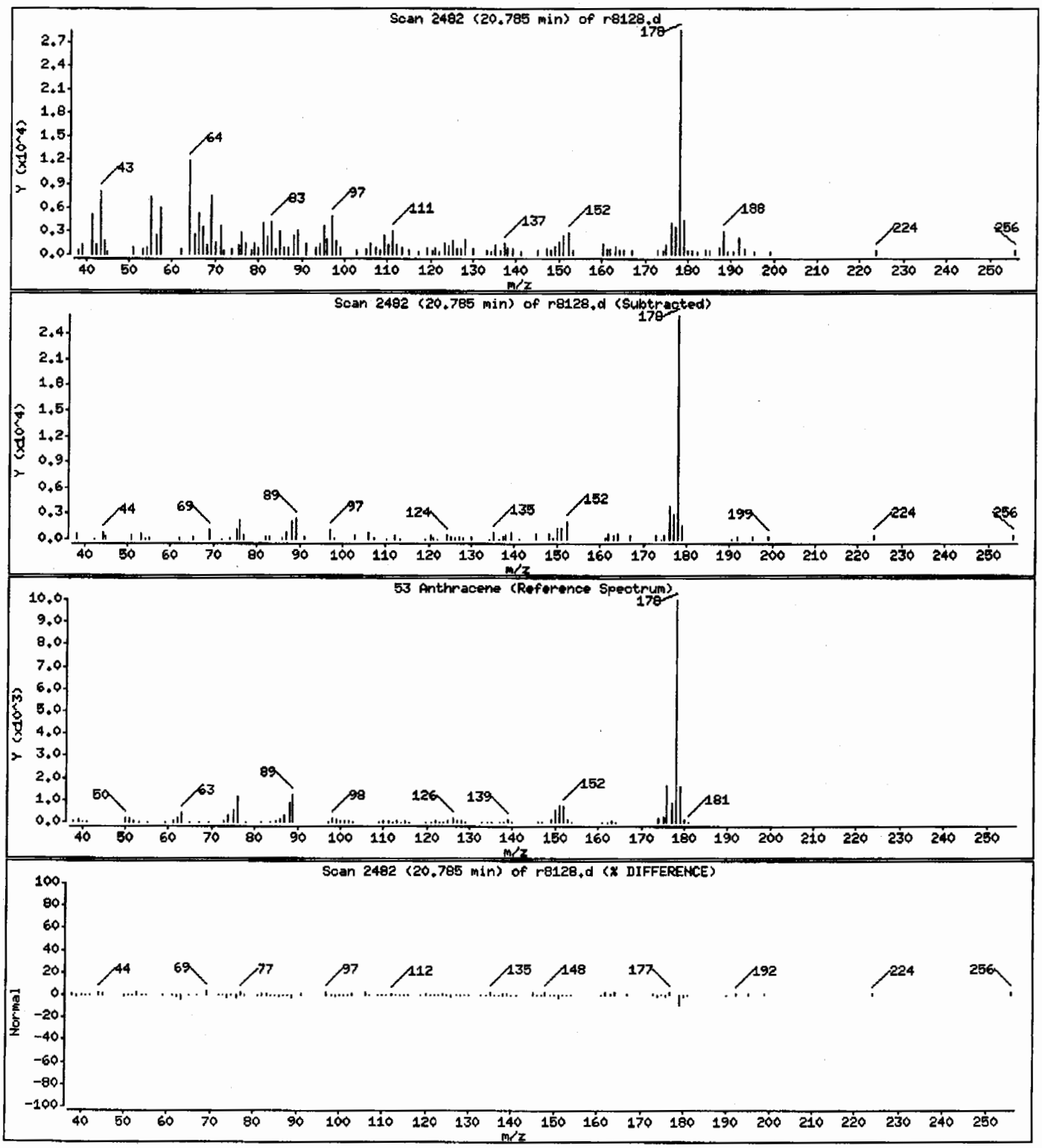
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

53 Anthracene Concentration: 34 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

Client ID: MA-02-02-0-6

Instrument: BNAMS1.i

Sample Info: 392320;888507

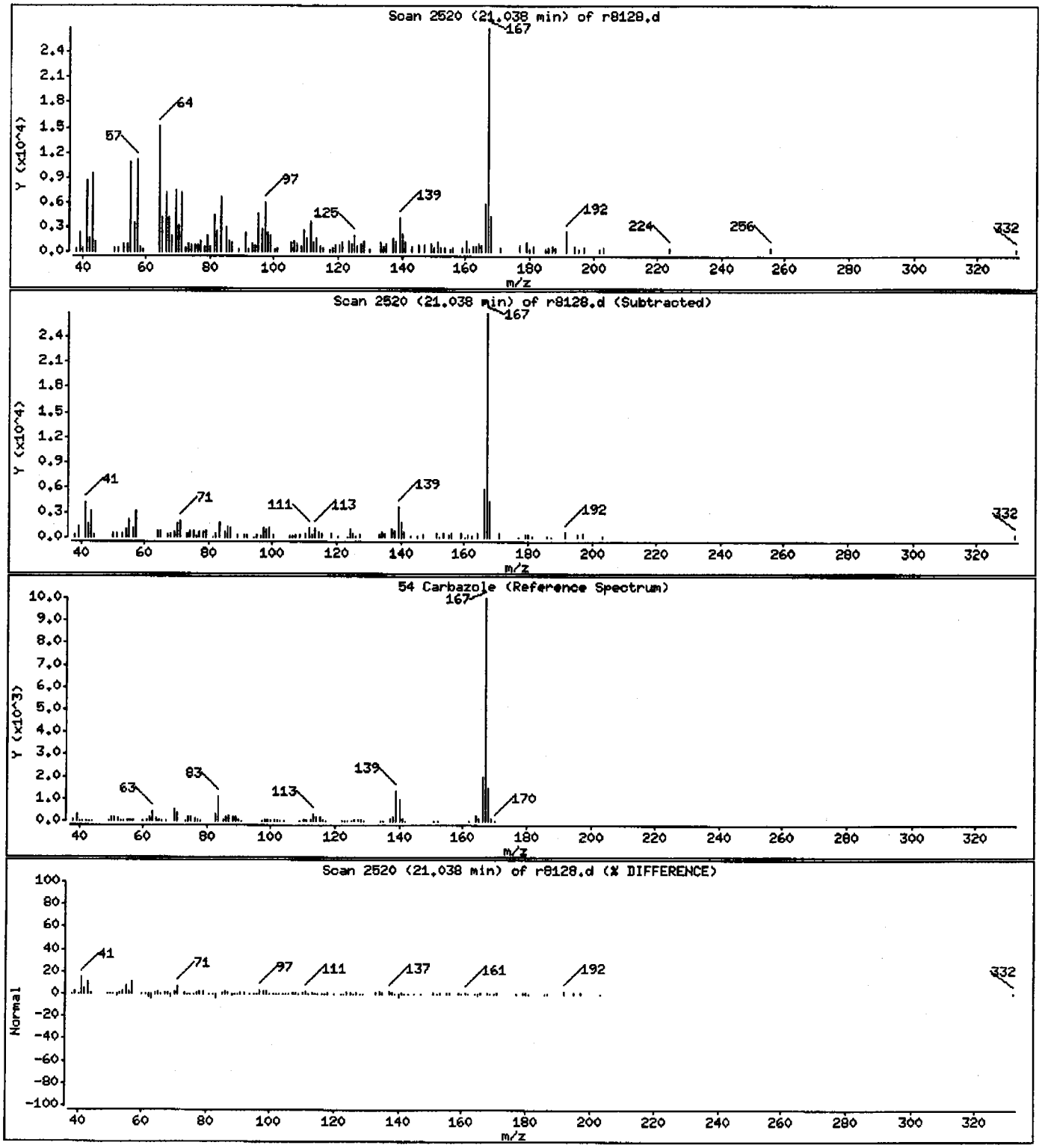
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

54 Carbazole

Concentration: 46 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

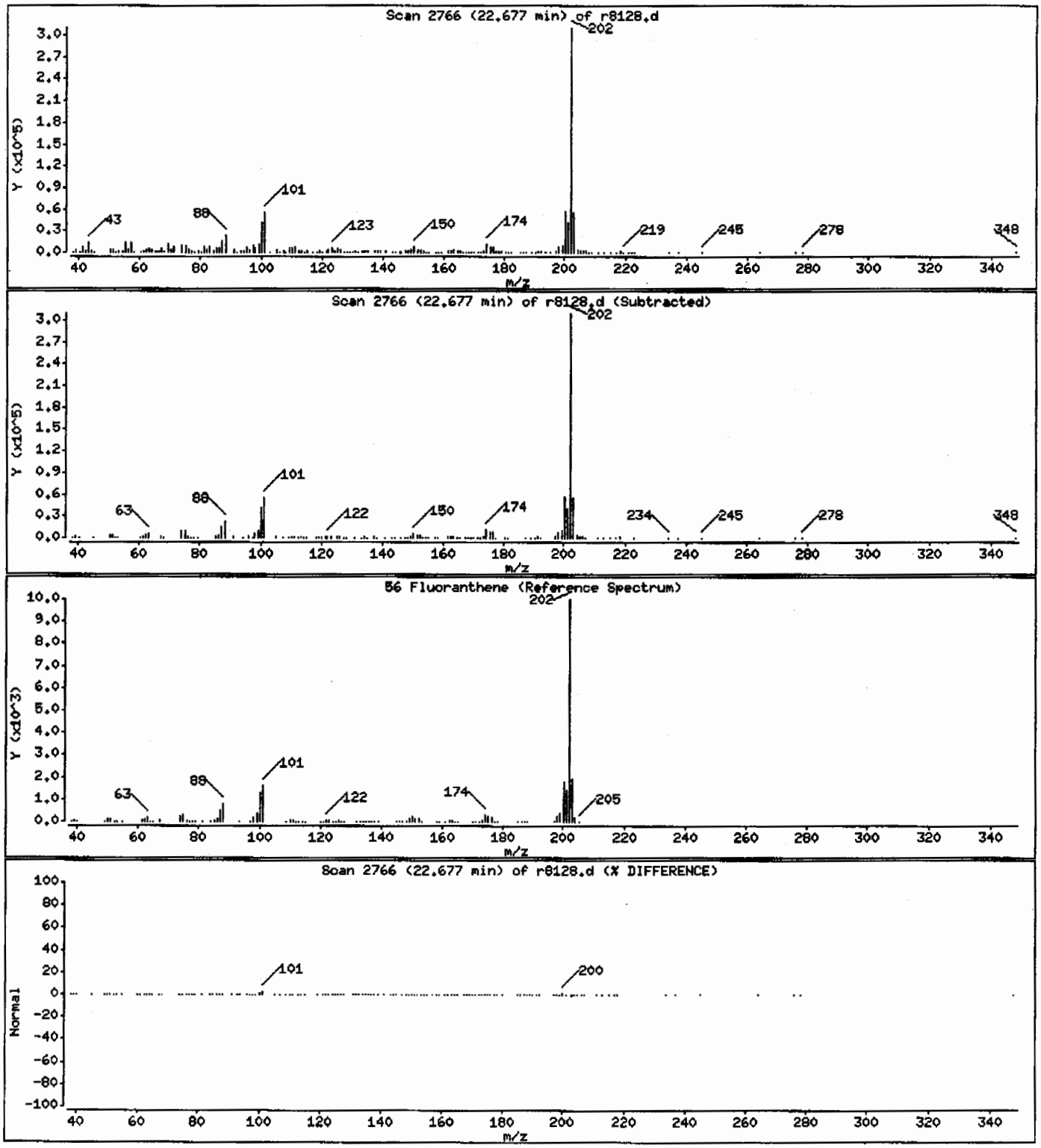
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

56 Fluoranthene Concentration: 440 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

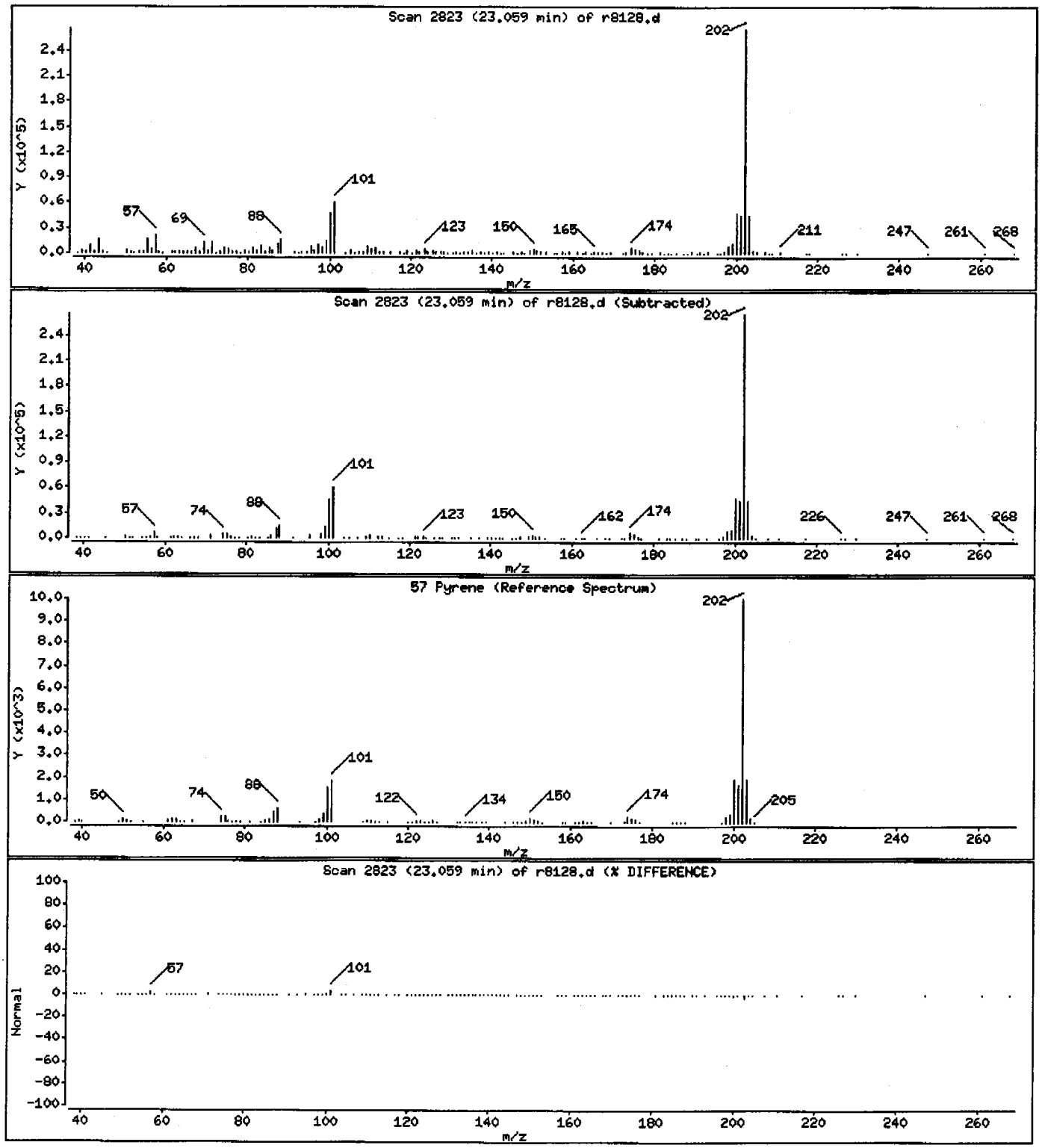
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

57 Pyrene Concentration: 380 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

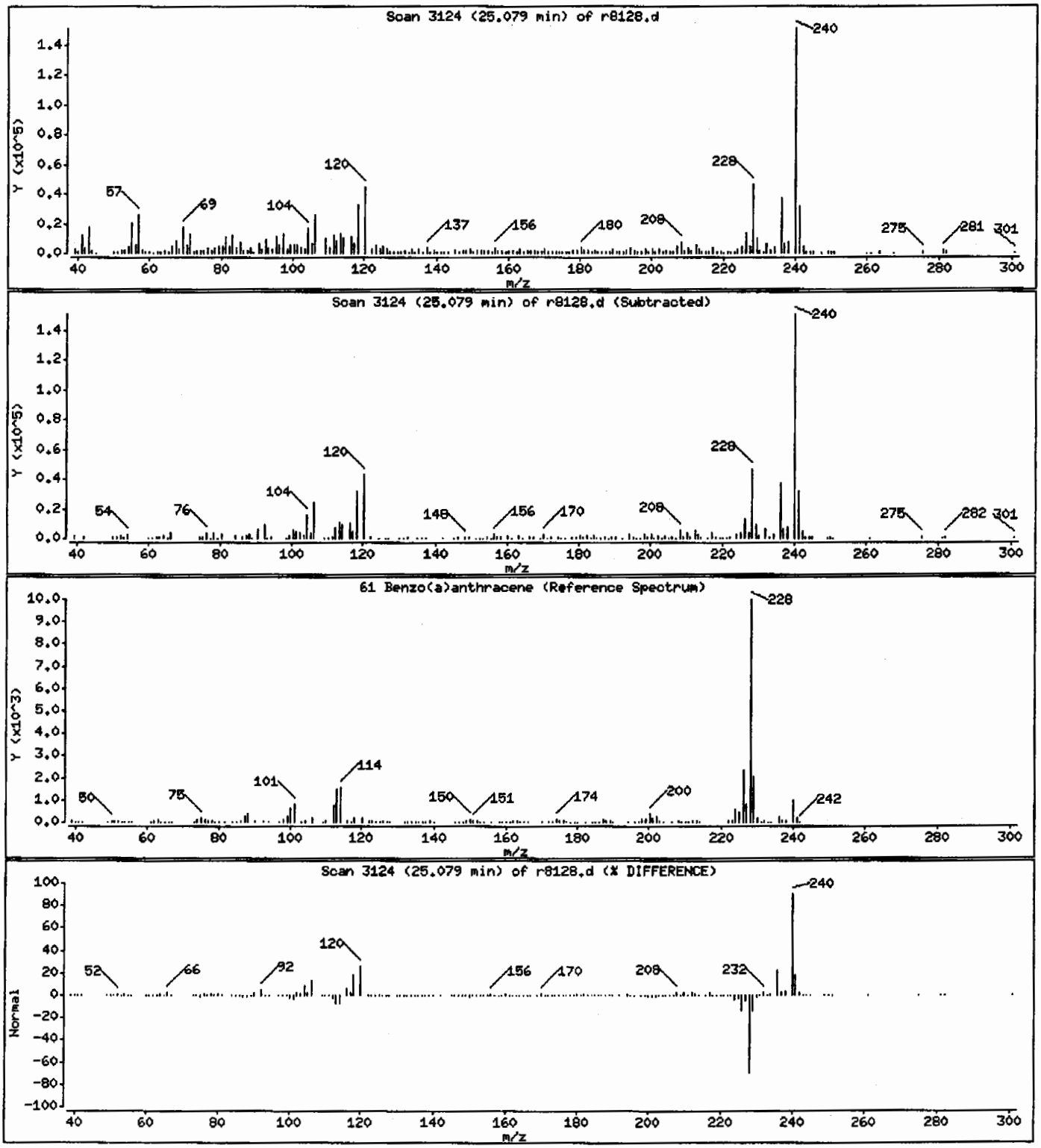
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

61 Benzo(a)anthracene Concentration: 140 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

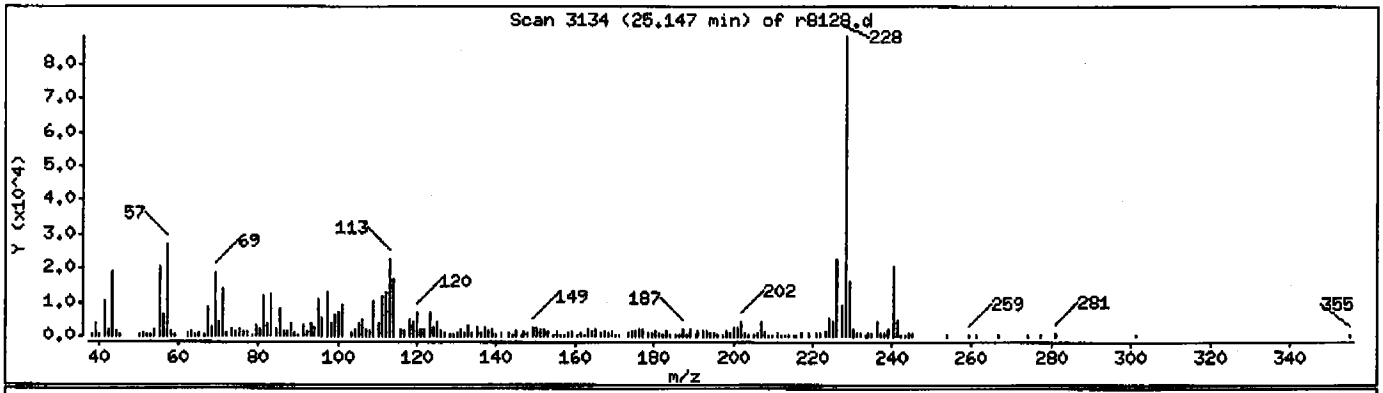
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

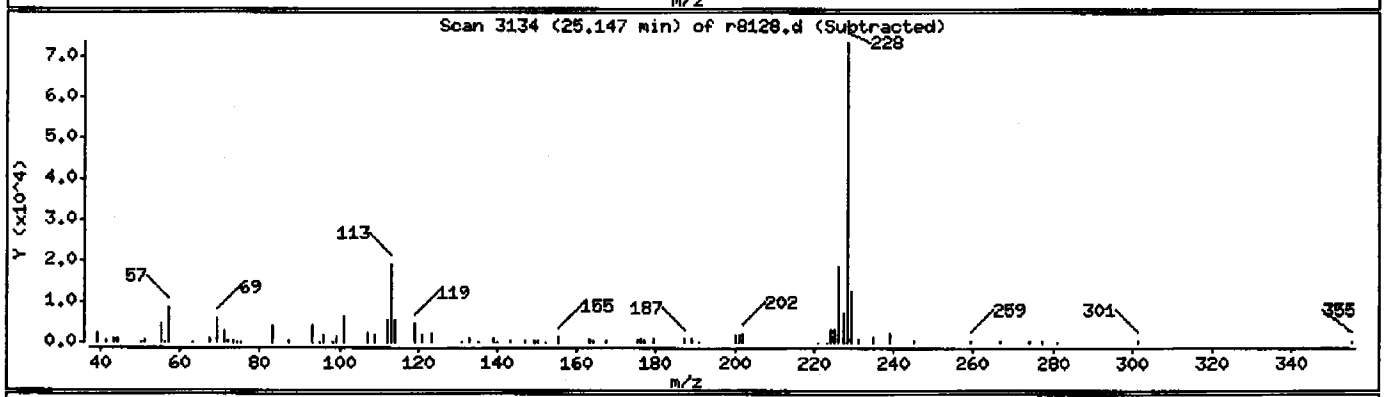
Sample Info: 392320;888607

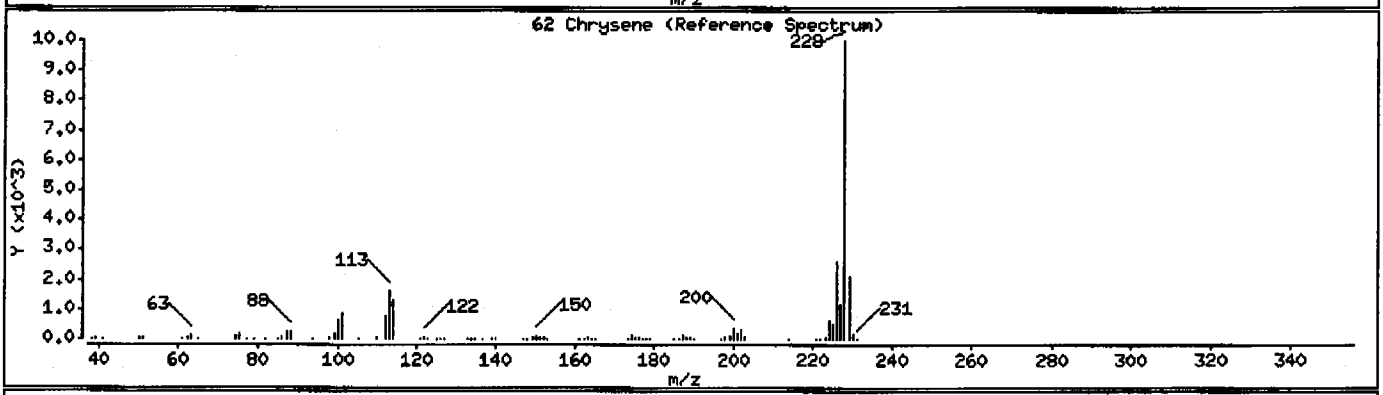
Operator: BNAMS 4

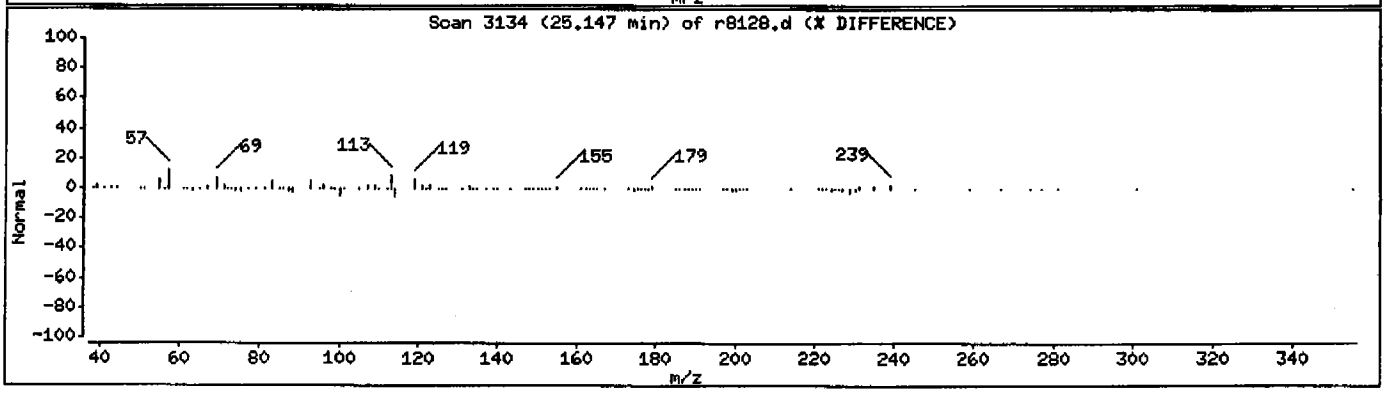
Column phase: DB-5 Column diameter: 0.25

62 Chrysene Concentration: 200 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

Client ID: HA-02-02-0-6

Instrument: BNAMS1.i

Sample Info: 392320;888507

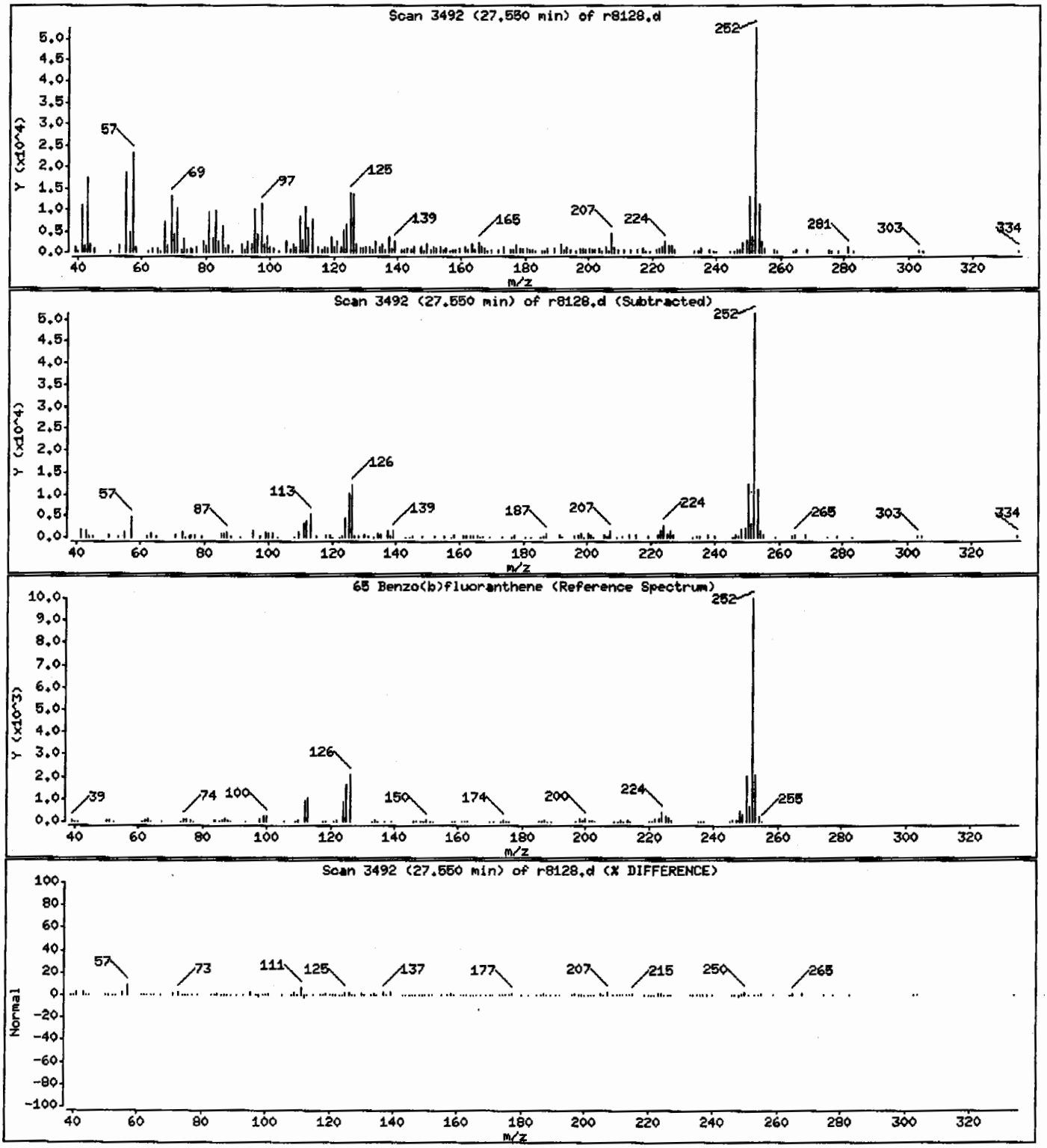
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 250 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

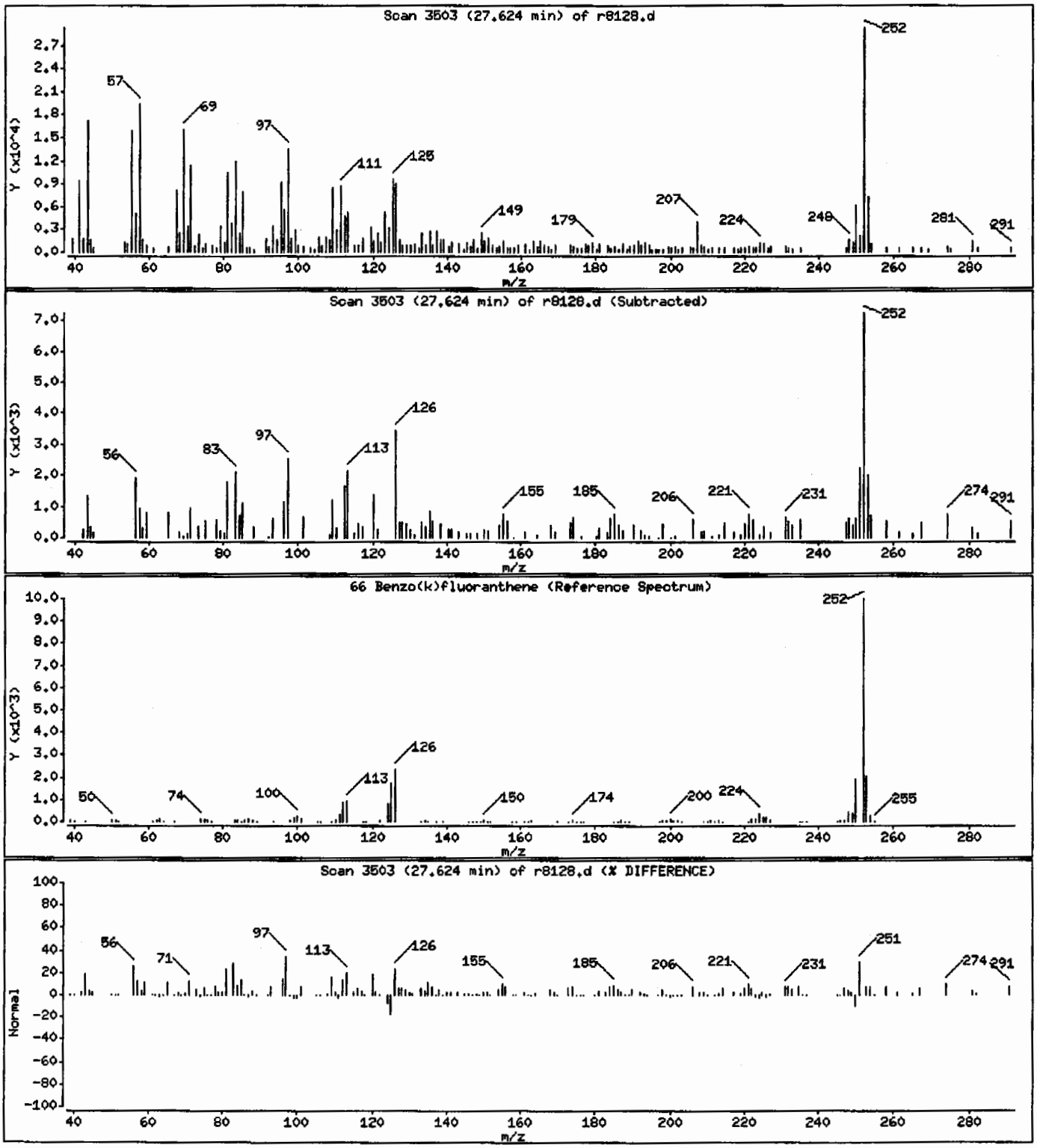
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

66 Benzo(k)fluoranthene Concentration: 92 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

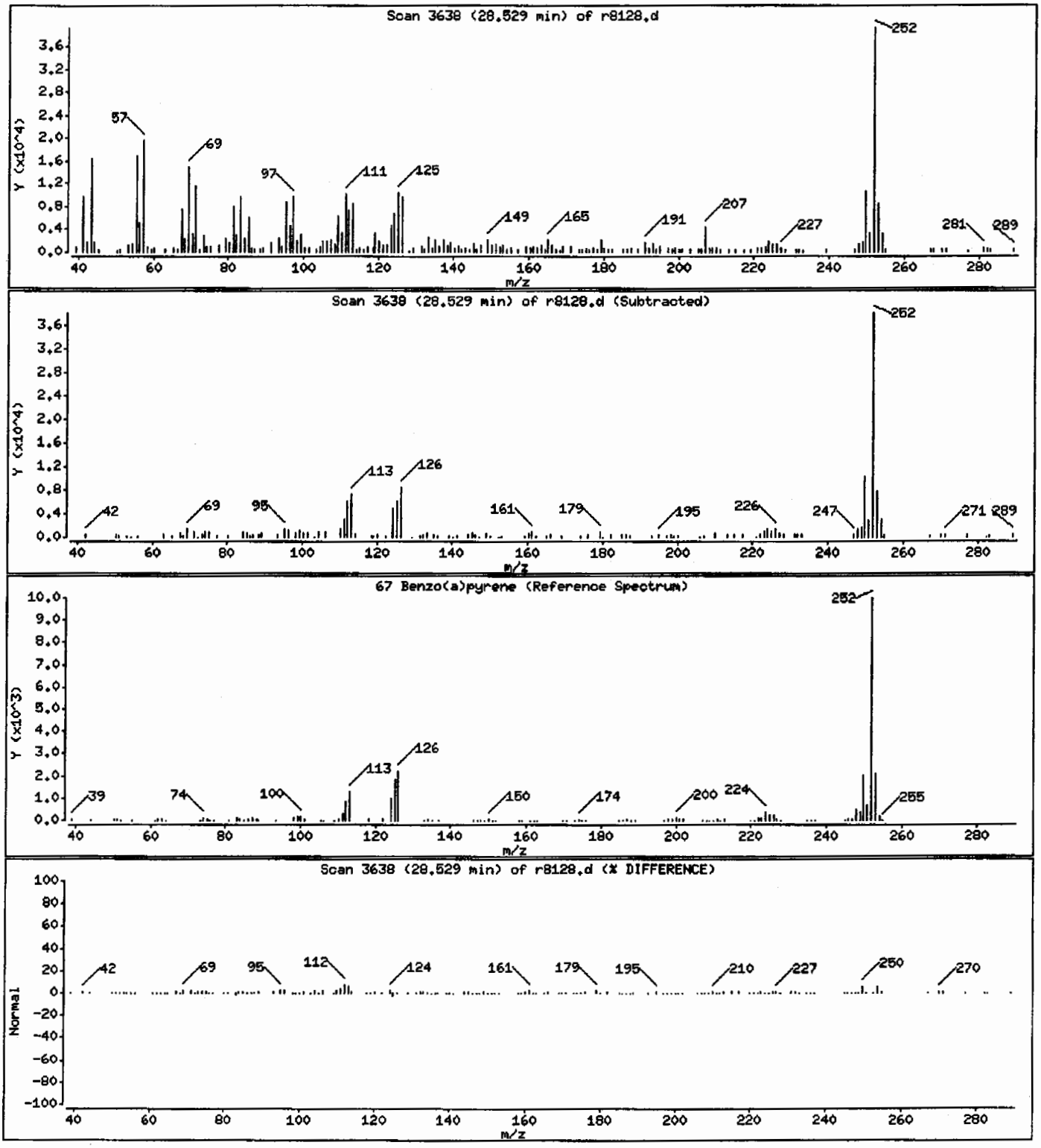
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320:888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

67 Benzo(a)pyrene Concentration: 160 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

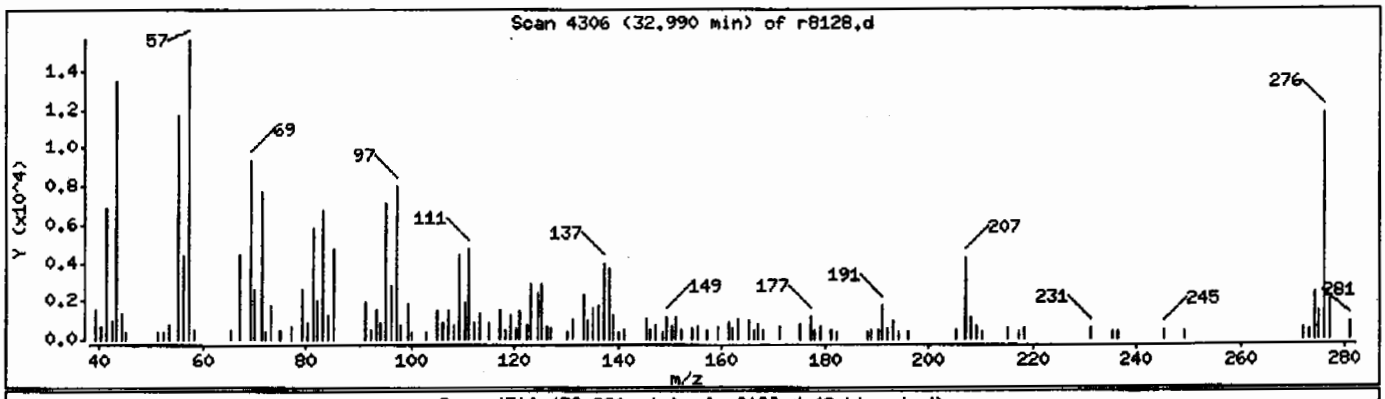
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

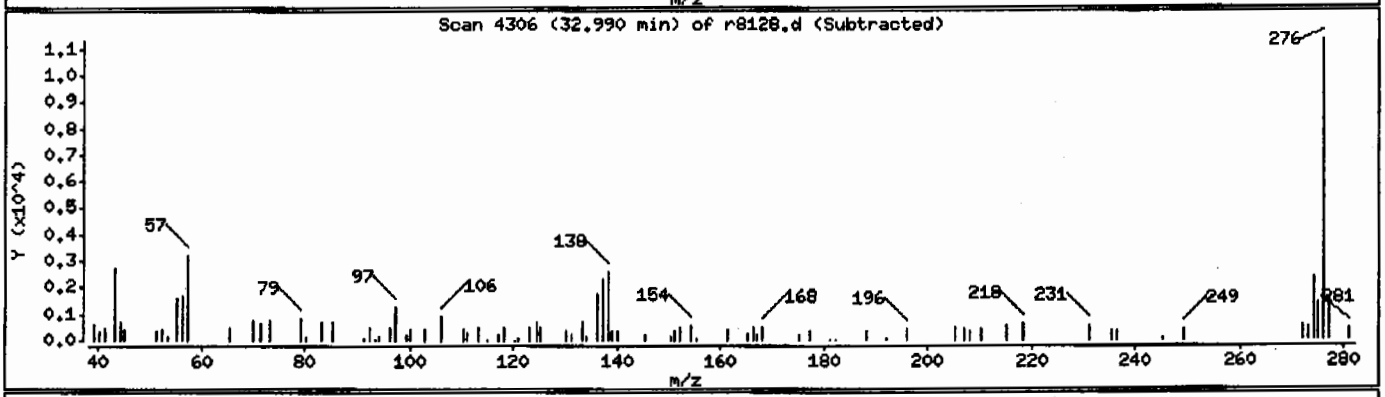
Sample Info: 392320;888507

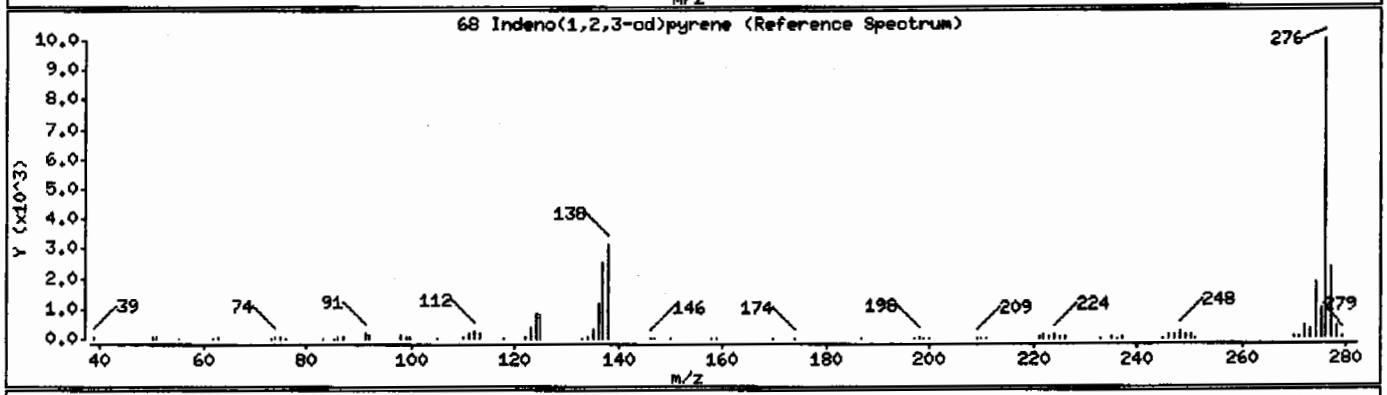
Operator: BNAMS 4

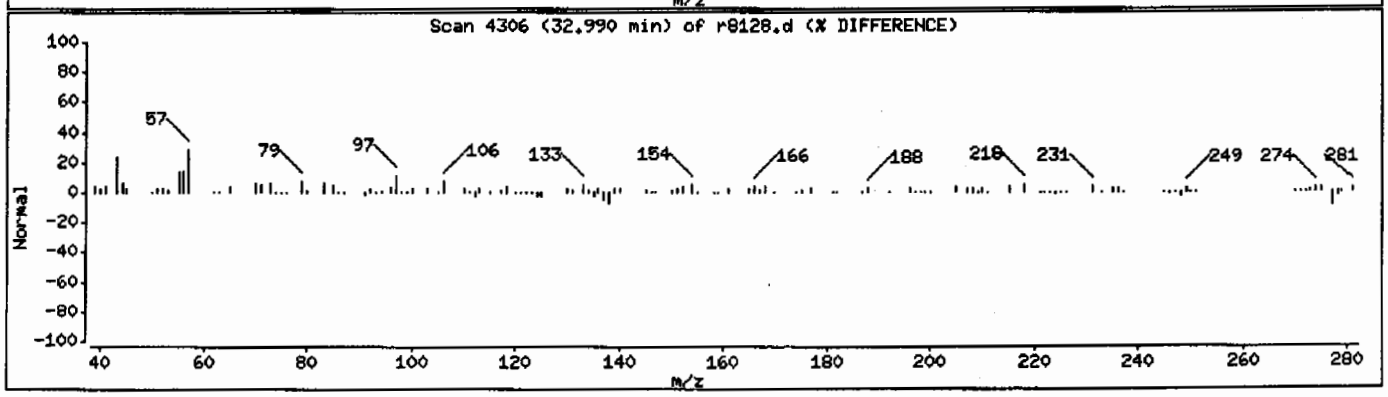
Column phase: DB-5 Column diameter: 0.25

68 Indeno(1,2,3-cd)pyrene Concentration: 65 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

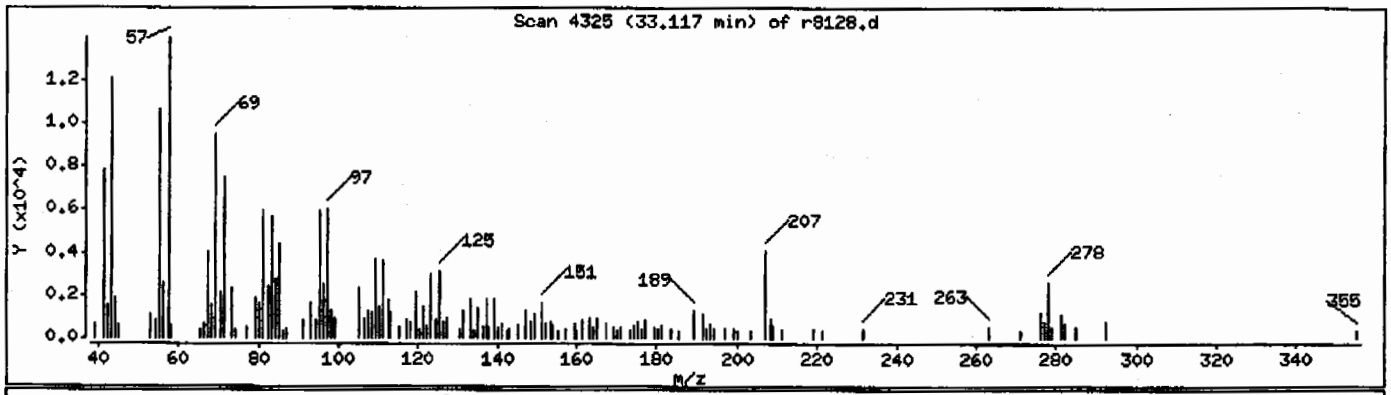
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

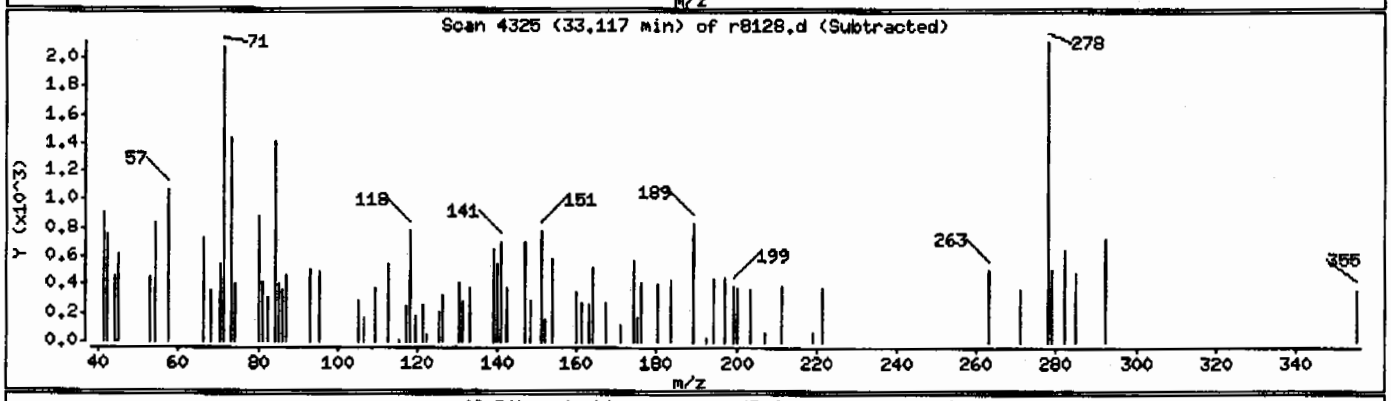
Sample Info: 392320;888507

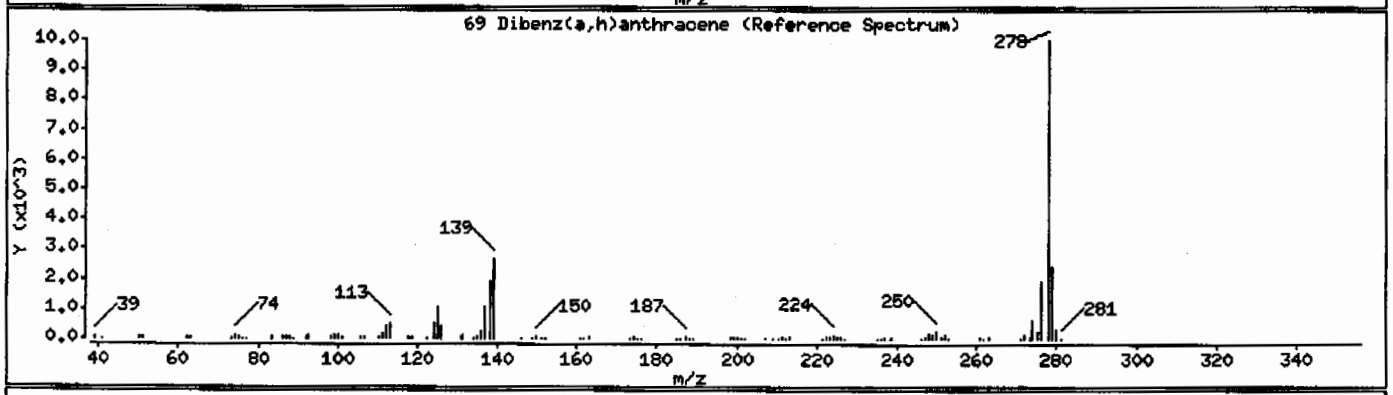
Operator: BNAMS 4

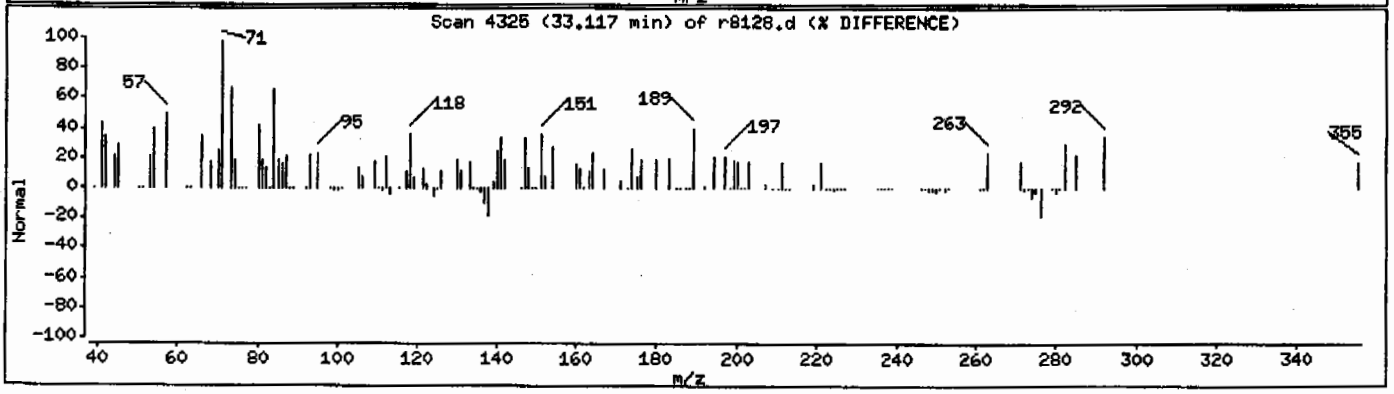
Column phase: DB-5 Column diameter: 0.25

69 Dibenz(a,h)anthracene Concentration: 21 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

Client ID: HA-02-02-0-6

Instrument: BNAMS1.i

Sample Info: 392320;888507

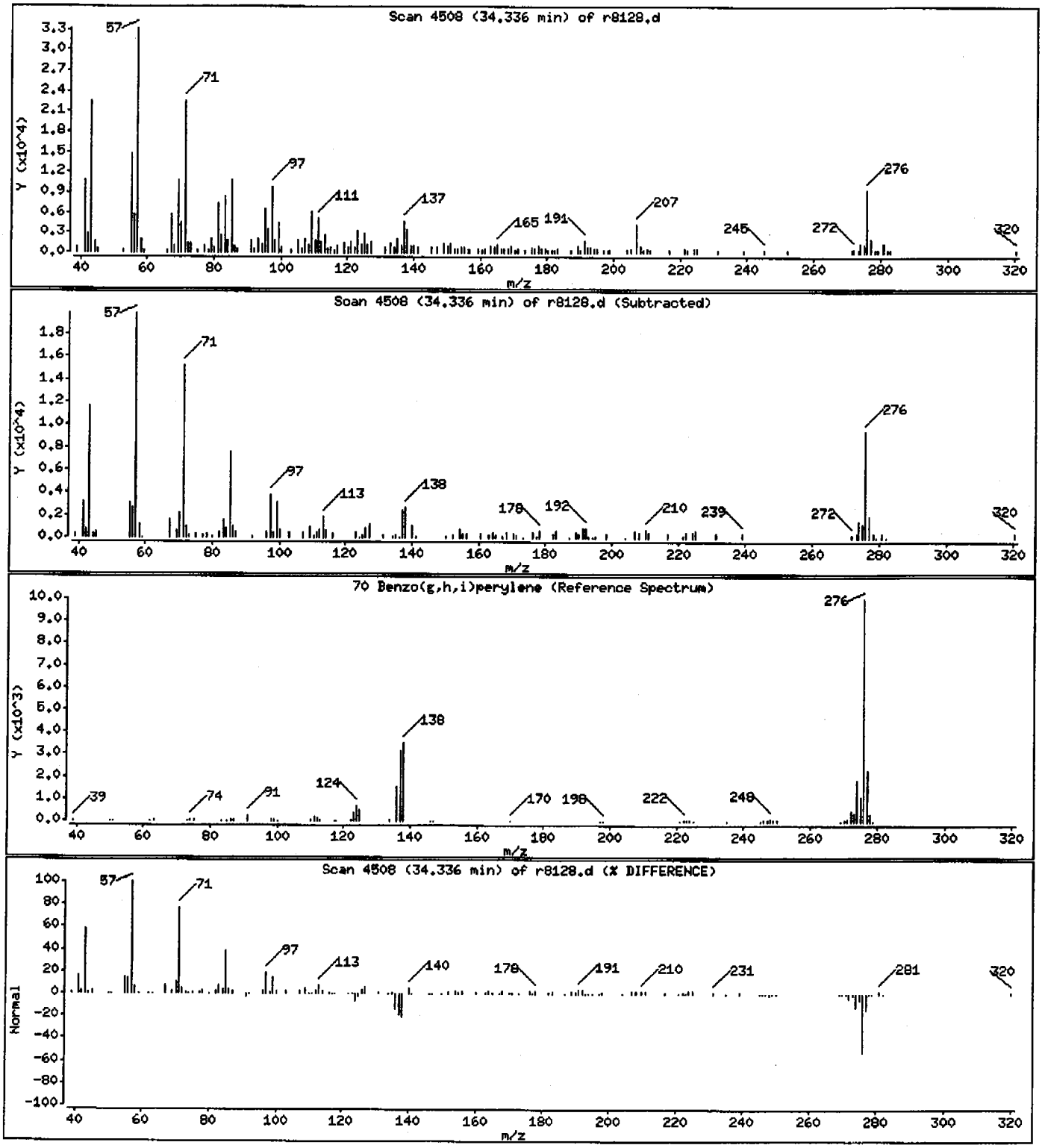
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 60 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

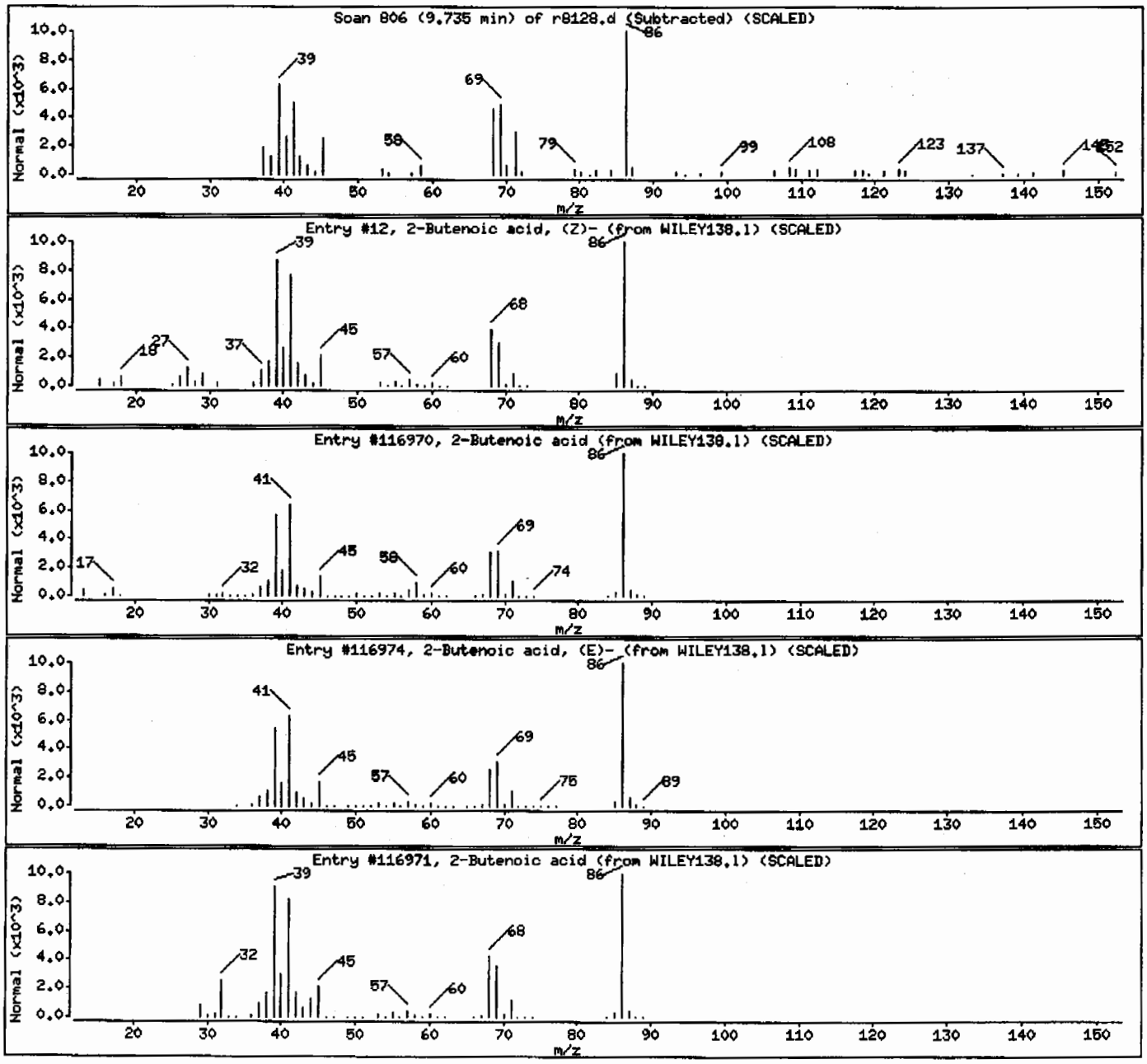
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Organic Acid						
2-Butenoic acid, (Z)-	503-64-0	WILEY138.1	12	68	C4H6O2	86
2-Butenoic acid	3724-65-0	WILEY138.1	116970	64	C4H6O2	86
2-Butenoic acid, (E)-	107-93-7	WILEY138.1	116974	64	C4H6O2	86
2-Butenoic acid	3724-65-0	WILEY138.1	116971	58	C4H6O2	86



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

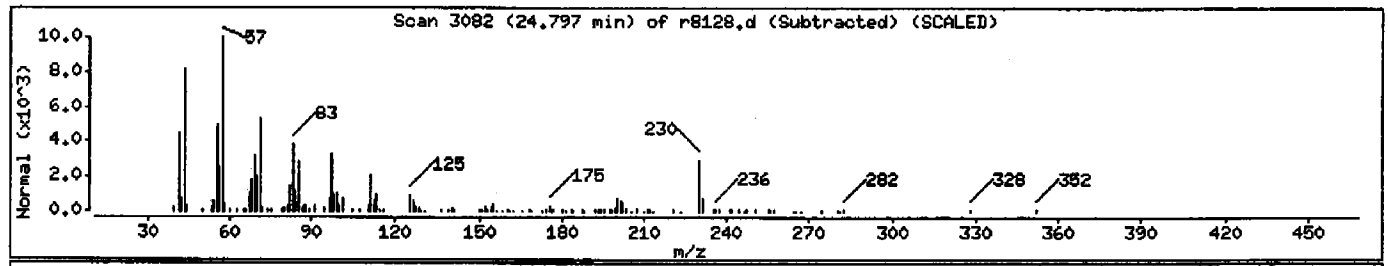
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

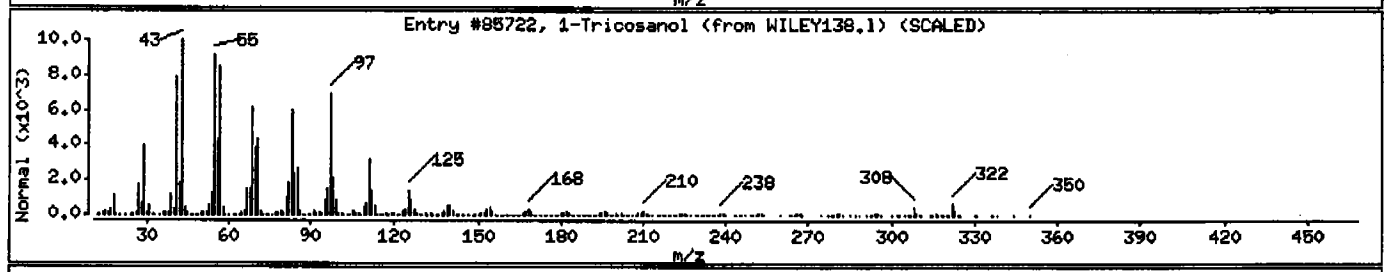
Sample Info: 392320;888507

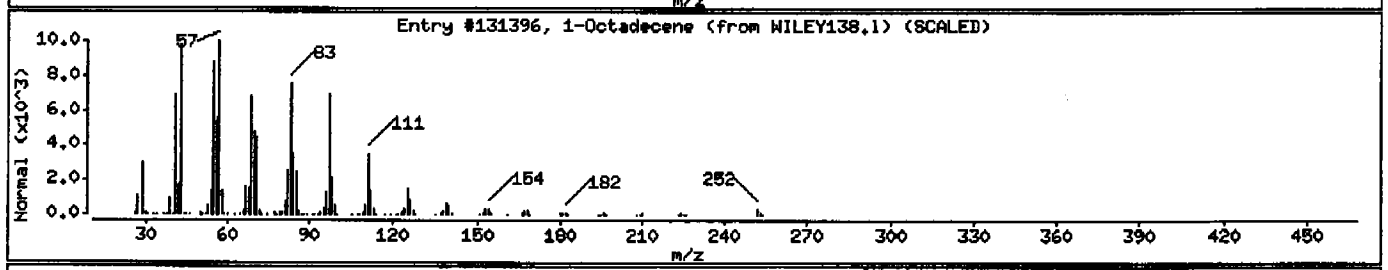
Operator: BNAMS 4

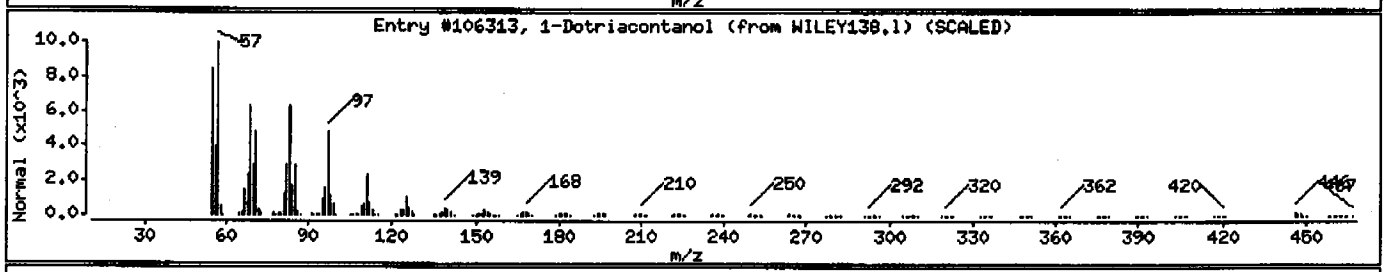
Column phase: DB-5 Column diameter: 0.25

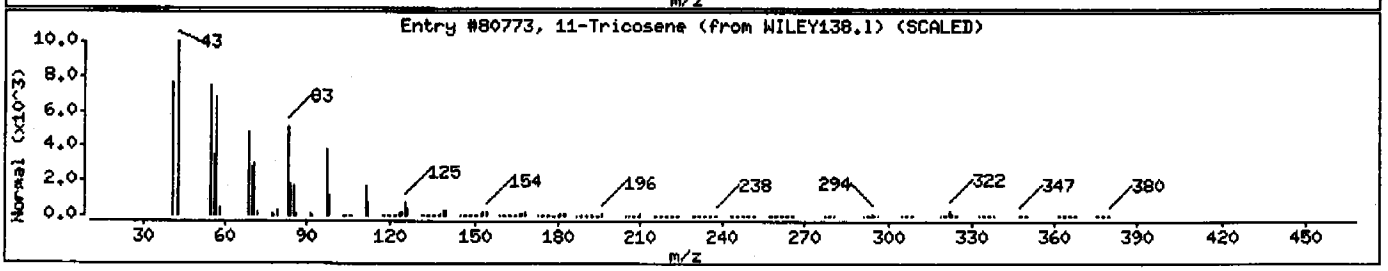
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Tricosanol	3133-01-5	WILEY138.1	85722	52	C23H480	340
1-Octadecene	112-88-9	WILEY138.1	131396	49	C18H36	252
1-Dotriacontanol	6624-79-9	WILEY138.1	106313	49	C32H660	467
11-Tricosene	52078-56-5	WILEY138.1	80773	49	C23H46	322











Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

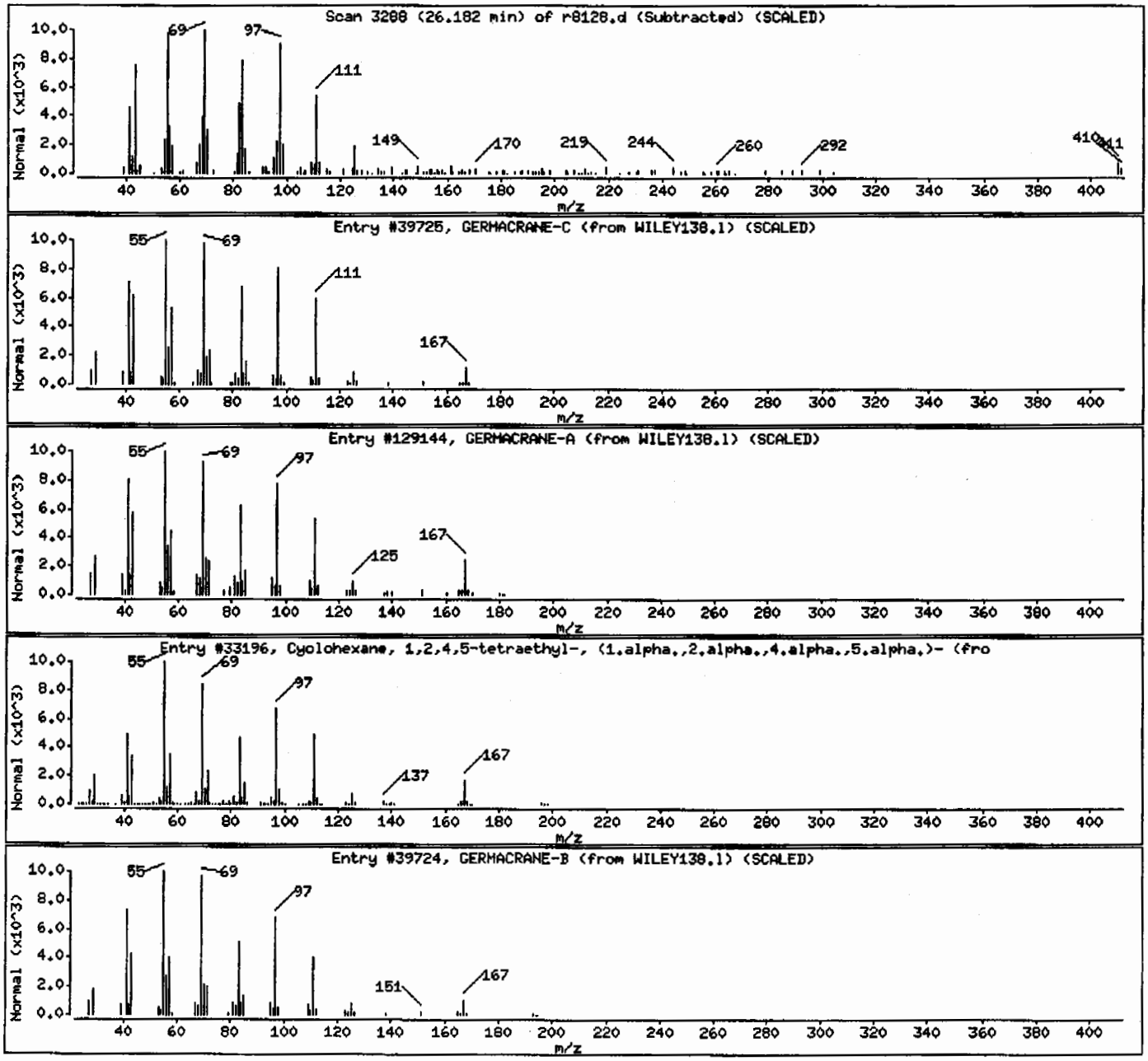
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
GERMACRANE-C	0-00-0	WILEY138.1	39725	58	C15H30	210
GERMACRANE-A	645-10-3	WILEY138.1	129144	52	C15H30	210
Cyclohexane, 1,2,4,5-tetraethyl-, (1.alp	61142-24-3	WILEY138.1	33196	49	C14H28	196
GERMACRANE-B	0-00-0	WILEY138.1	39724	49	C15H30	210



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

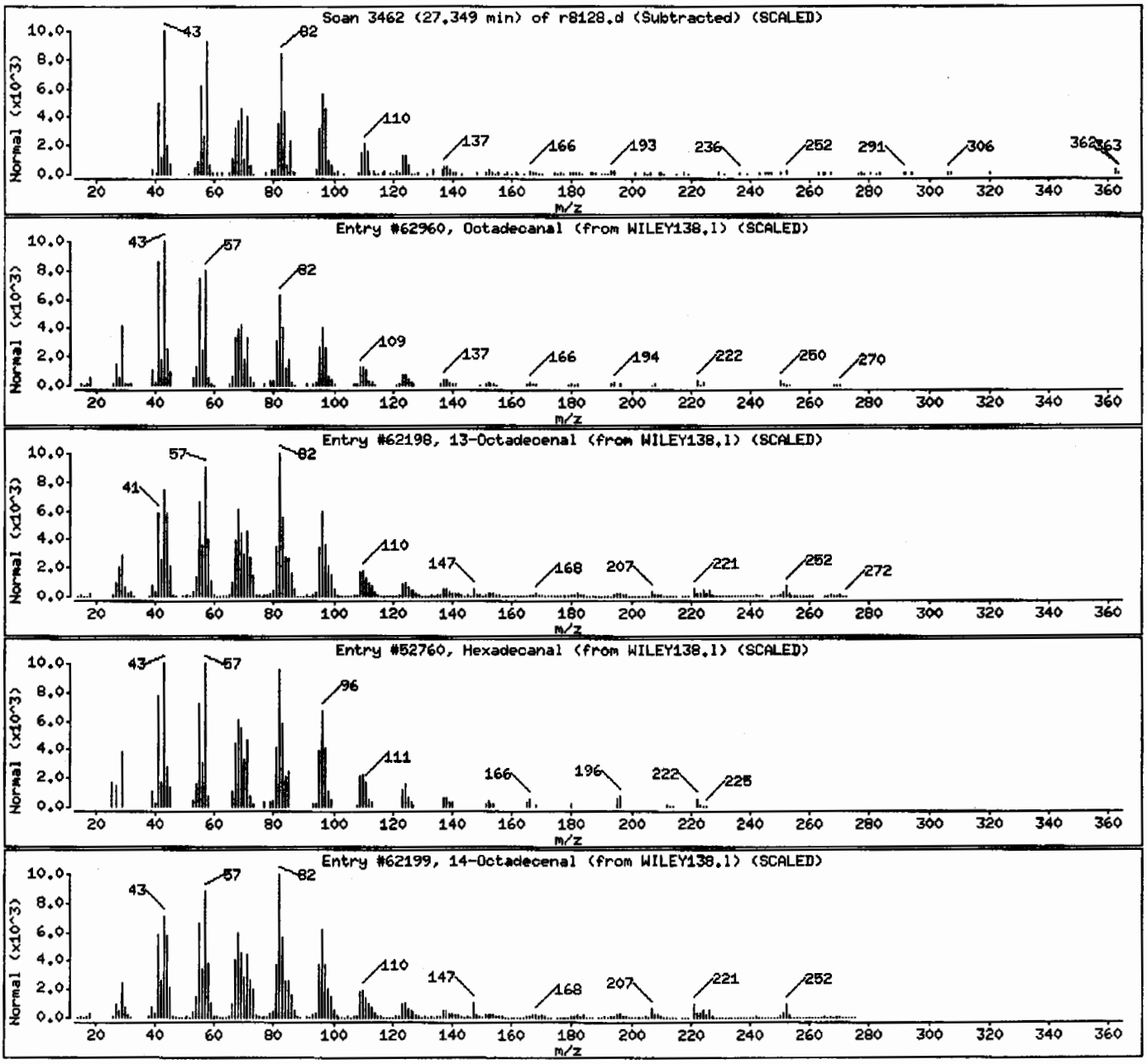
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octadecanal	638-66-4	WILEY138.1	62960	90	C18H360	268
13-Octadecenal	56554-90-6	WILEY138.1	62198	90	C18H340	266
Hexadecanal	629-80-1	WILEY138.1	52760	83	C16H320	240
14-Octadecenal	56554-89-3	WILEY138.1	62199	78	C18H340	266



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

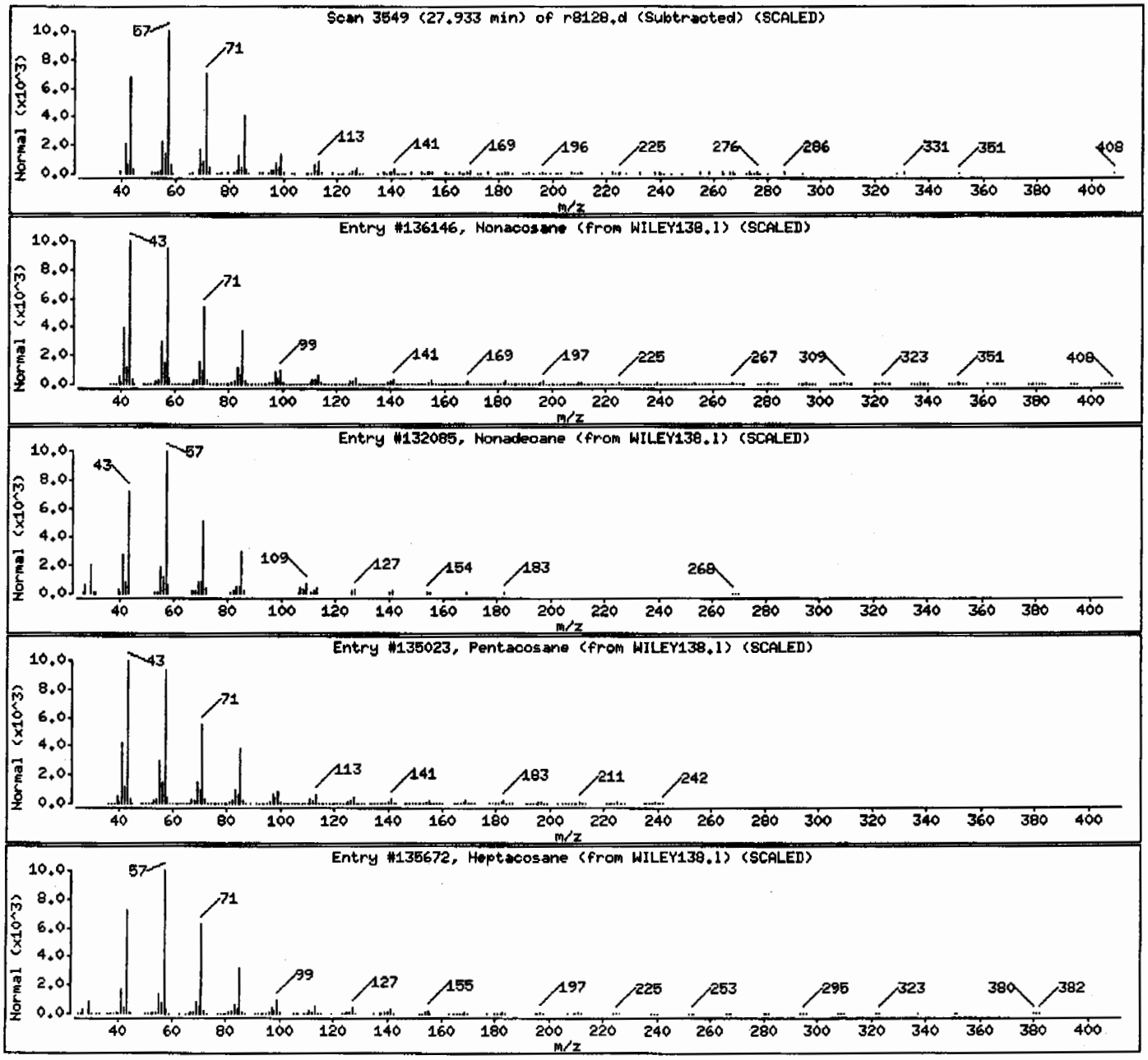
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Nonacosane	630-03-5	WILEY138.1	136146	93	C29H60	408
Nonadecane	629-92-5	WILEY138.1	132085	90	C19H40	268
Pentacosane	629-99-2	WILEY138.1	135023	87	C25H52	352
Heptacosane	593-49-7	WILEY138.1	135672	87	C27H56	380



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

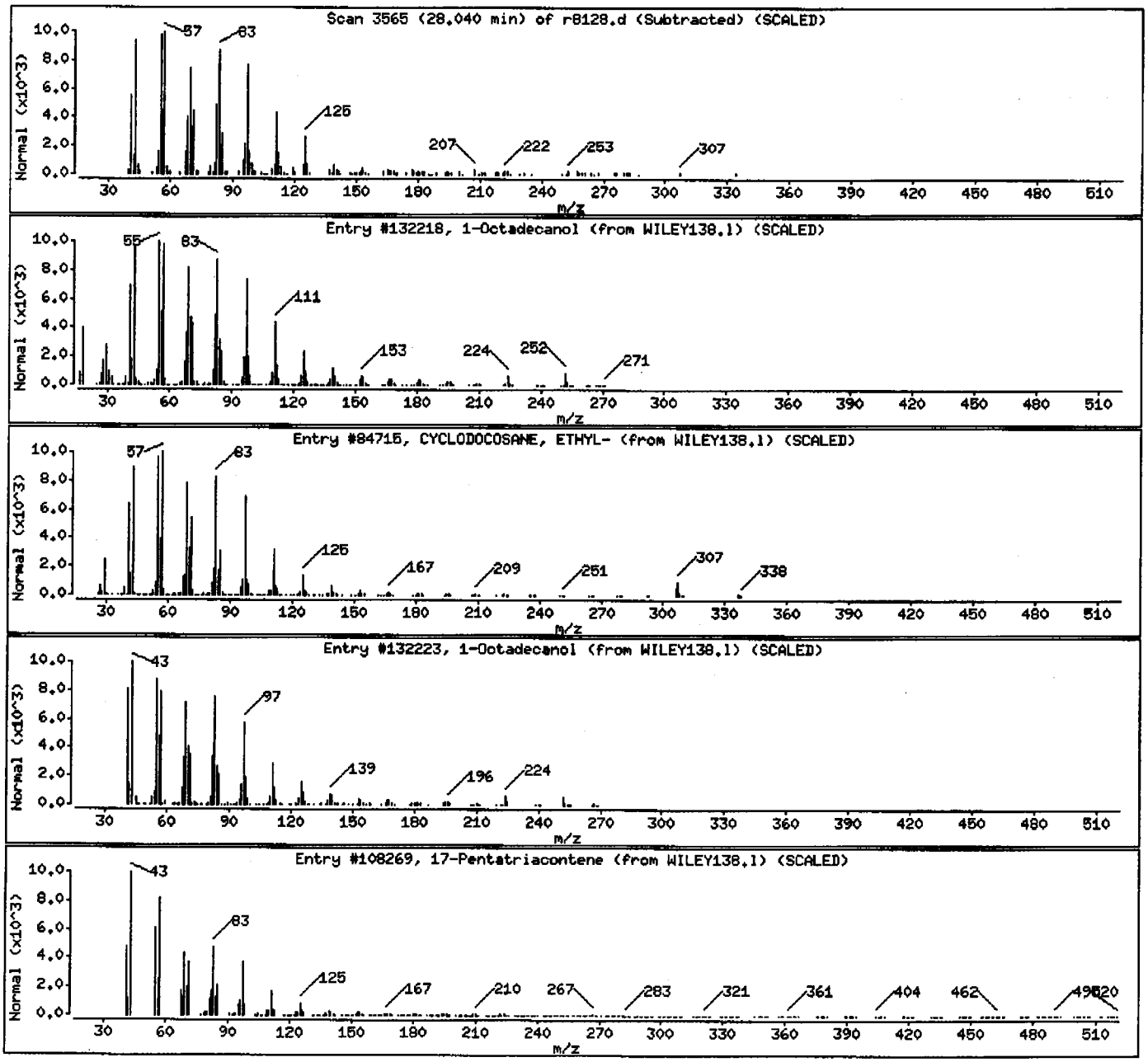
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Octadecanol	112-92-5	WILEY138.1	132218	83	C18H38O	270
CYCLODOCOSANE, ETHYL-	0-00-0	WILEY138.1	84715	74	C24H48	336
1-Octadecanol	112-92-5	WILEY138.1	132223	68	C18H38O	270
17-Pentatriacontene	6971-40-0	WILEY138.1	108269	64	C35H70	491



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

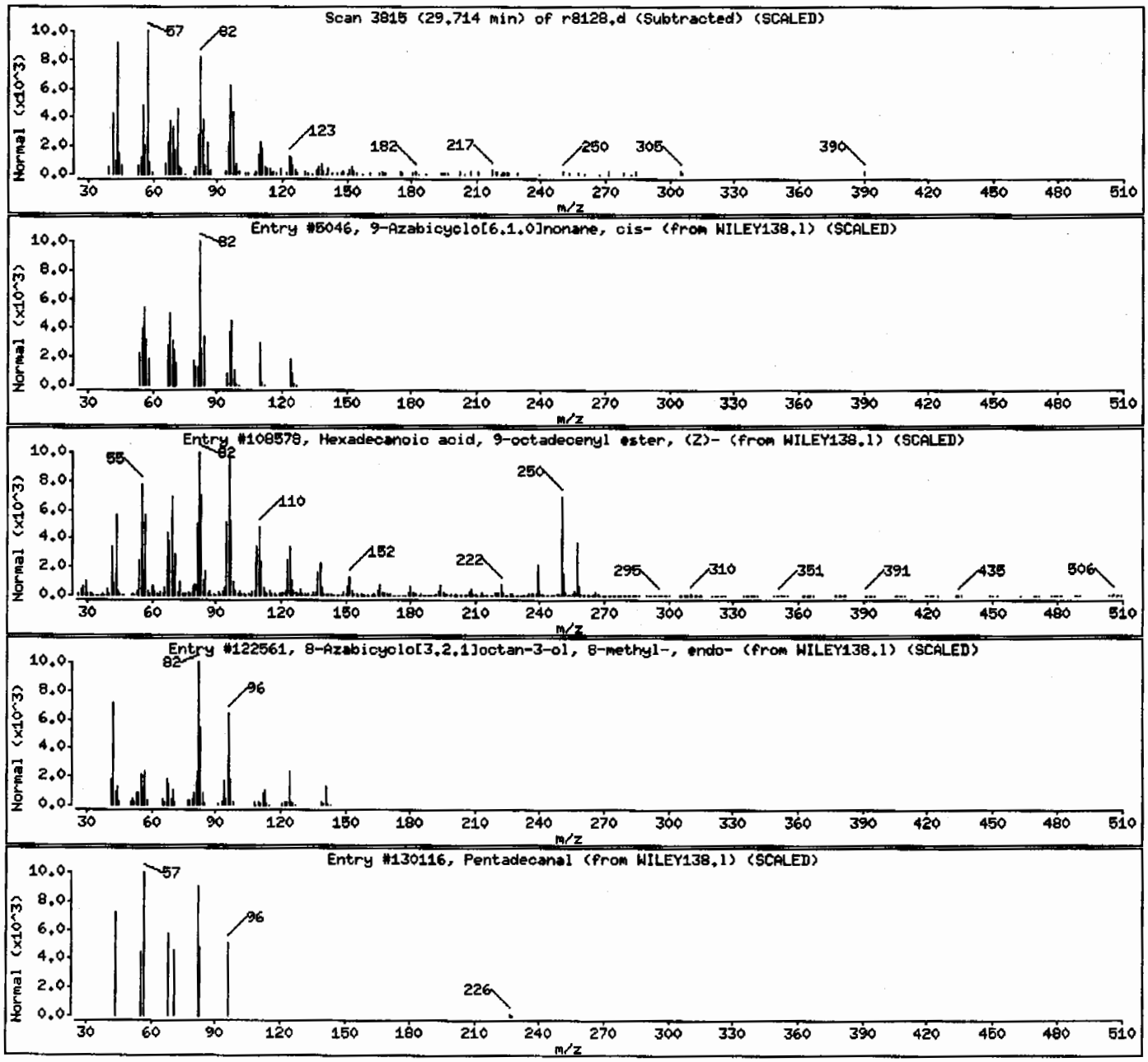
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Azabicyclo[6.1.0]nonane, cis-	66387-85-7	WILEY138.1	5046	55	C8H15N	125
Hexadecanoic acid, 9-octadecenyl ester,	2906-55-0	WILEY138.1	108578	53	C34H66O2	507
8-Azabicyclo[3.2.1]octan-3-ol, 8-methyl-	120-29-6	WILEY138.1	122561	49	C8H15NO	141
Pentadecanal	0-00-0	WILEY138.1	130116	43	C15H30O	226



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

Client ID: HA-02-02-0-6

Instrument: BNAMS1.i

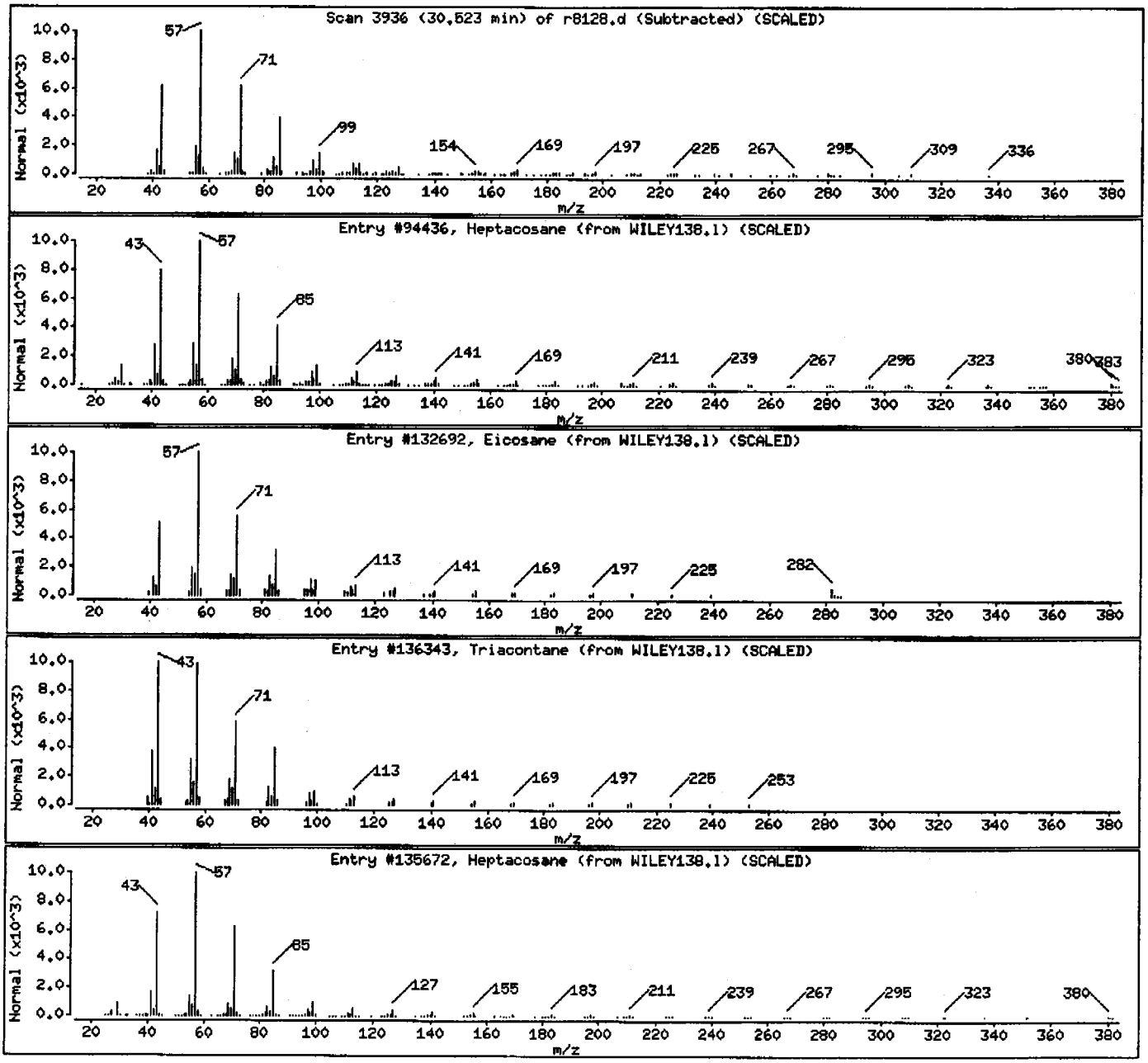
Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heptacosane	593-49-7	WILEY138.1	94436	91	C27H56	380
Eicosane	112-95-8	WILEY138.1	132692	91	C20H42	282
Triacontane	638-68-6	WILEY138.1	136343	91	C30H62	422
Heptacosane	593-49-7	WILEY138.1	135672	91	C27H56	380



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8128.d

Date : 07-DEC-2002 16:45

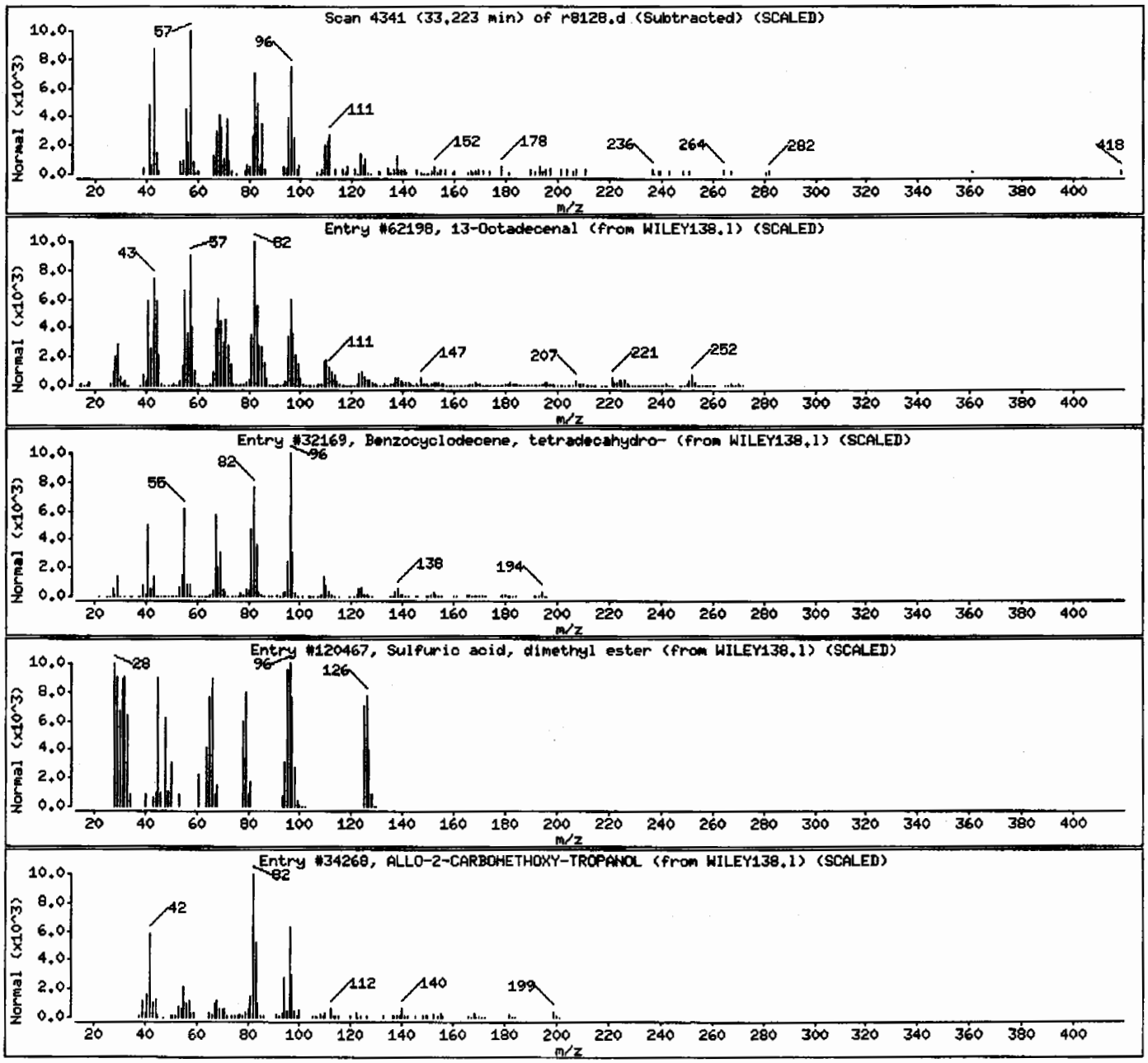
Client ID: HA-02-02-0-6 Instrument: BNAMS1.i

Sample Info: 392320;888507

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
13-Octadecenal	56554-90-6	WILEY138.1	62198	50	C18H340	266
Benzocyclodecene, tetradecahydro-	61142-06-1	WILEY138.1	32169	43	C14H26	194
Sulfuric acid, dimethyl ester	77-78-1	WILEY138.1	120467	42	C2H6O4S	126
ALLO-2-CARBOMETHOXY-TROPANOL	0-00-0	WILEY138.1	34268	27	C10H17NO3	199



Job No. D092 - Malcolm Pirnie, Inc. - Earle NWS Closure

VOLUME 3

GC/MS Forms and Data (Semivolatiles)

GC/FID Forms and Data (DRO)

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8129.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	370
2-Chlorophenol	ND	370
2-Methylphenol	ND	370
4-Methylphenol	ND	370
2-Nitrophenol	ND	370
2,4-Dimethylphenol	ND	370
2,4-Dichlorophenol	ND	370
4-Chloro-3-methylphenol	ND	370
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8129.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl)ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy)methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	ND	370
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	75
2-Methylnaphthalene	ND	370
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	750
Dimethylphthalate	ND	370
Acenaphthylene	31 J	370
2,6-Dinitrotoluene	ND	75
3-Nitroaniline	ND	750
Acenaphthene	ND	370
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	75
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
4-Nitroaniline	ND	750
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	43 J	370
Anthracene	22 J	370

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8129.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	370
Di-n-butylphthalate	ND	370
Fluoranthene	120 J	370
Pyrene	130 J	370
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	750
Benzo(a)anthracene	74	37
Chrysene	77 J	370
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	100	37
Benzo(k)fluoranthene	40	37
Benzo(a)pyrene	73	37
Indeno(1,2,3-cd)pyrene	30 J	37
Dibenz(a,h)anthracene	ND	37
Benzo(g,h,i)perylene	26 J	370

Client ID: **HA-02-06-0-6**
Site: Earle NWS Closure

Lab Sample No: **392321**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/07/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8129.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	24.79	370	
2. Unknown	26.19	430	
3. Unknown	27.35	660	
4. Unknown Alkane	27.93	440	
5. Unknown	28.05	1000	
6. Unknown	29.71	450	
7. Unknown Alkane	30.52	770	
8. Unknown	33.21	520	
9. Unknown	34.35	510	
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 5150

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d
Report Date: 08-Dec-2002 07:02

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d
Lab Smp Id: 392321 Client Smp ID: HA-02-06-0-6
Inj Date : 07-DEC-2002 17:31
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392321;888542
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/07dec02.b/8270c1.m
Meth Date : 07-Dec-2002 07:19 wahied Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	11.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.629	10.594	(0.813)	2184023	79.3916	5900
$ 17 Phenol-d5 (SUR)	99	12.429	12.418	(0.951)	2556679	83.2345	6200
* 79 1,4-Dichlorobenzene-d4	152	13.067	13.062	(1.000)	578751	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.019	14.022	(0.919)	954747	40.8251	3000
* 80 Naphthalene-d8	136	15.248	15.246	(1.000)	2396063	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.049	17.044	(0.937)	1801718	38.0650	2800
39 Acenaphthylene	152	17.950	17.955	(0.987)	24693	0.41923	31(a)
* 82 Acenaphthene-d10	164	18.194	18.185	(1.000)	1454687	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.497	19.493	(1.072)	392767	52.1193	3900
* 83 Phenanthrene-d10	188	20.670	20.661	(1.000)	2834448	40.0000	
52 Phenanthrene	178	20.703	20.708	(1.002)	39269	0.57747	43(a)
53 Anthracene	178	20.783	20.794	(1.005)	20172	0.28756	22(a)
56 Fluoranthene	202	22.671	22.681	(1.097)	120295	1.62566	120(a)
57 Pyrene	202	23.056	23.064	(0.918)	135546	1.76299	130(a)

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d
Report Date: 08-Dec-2002 07:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 78 Terphenyl-d14 (SUR)	244	23.295	23.282	(0.928)	1774808	36.8642	2800
61 Benzo(a)anthracene	228	25.082	25.081	(0.999)	60819	0.99210	74(H)
* 81 Chrysene-d12	240	25.102	25.108	(1.000)	2242644	40.0000	
62 Chrysene	228	25.149	25.162	(1.002)	59128	1.03413	77(a)
65 Benzo(b)fluoranthene	252	27.539	27.564	(0.958)	76749	1.34700	100
66 Benzo(k)fluoranthene	252	27.613	27.657	(0.960)	28552	0.53638	40
67 Benzo(a)pyrene	252	28.520	28.559	(0.992)	50960	0.97777	73
* 84 Perylene-d12	264	28.753	28.738	(1.000)	2011095	40.0000	
68 Indeno(1,2,3-cd)pyrene	276	32.994	33.058	(1.147)	22038	0.39461	30(aM)
70 Benzo(g,h,i)perylene	276	34.334	34.441	(1.194)	19890	0.34633	26(aM)

QC Flag Legend

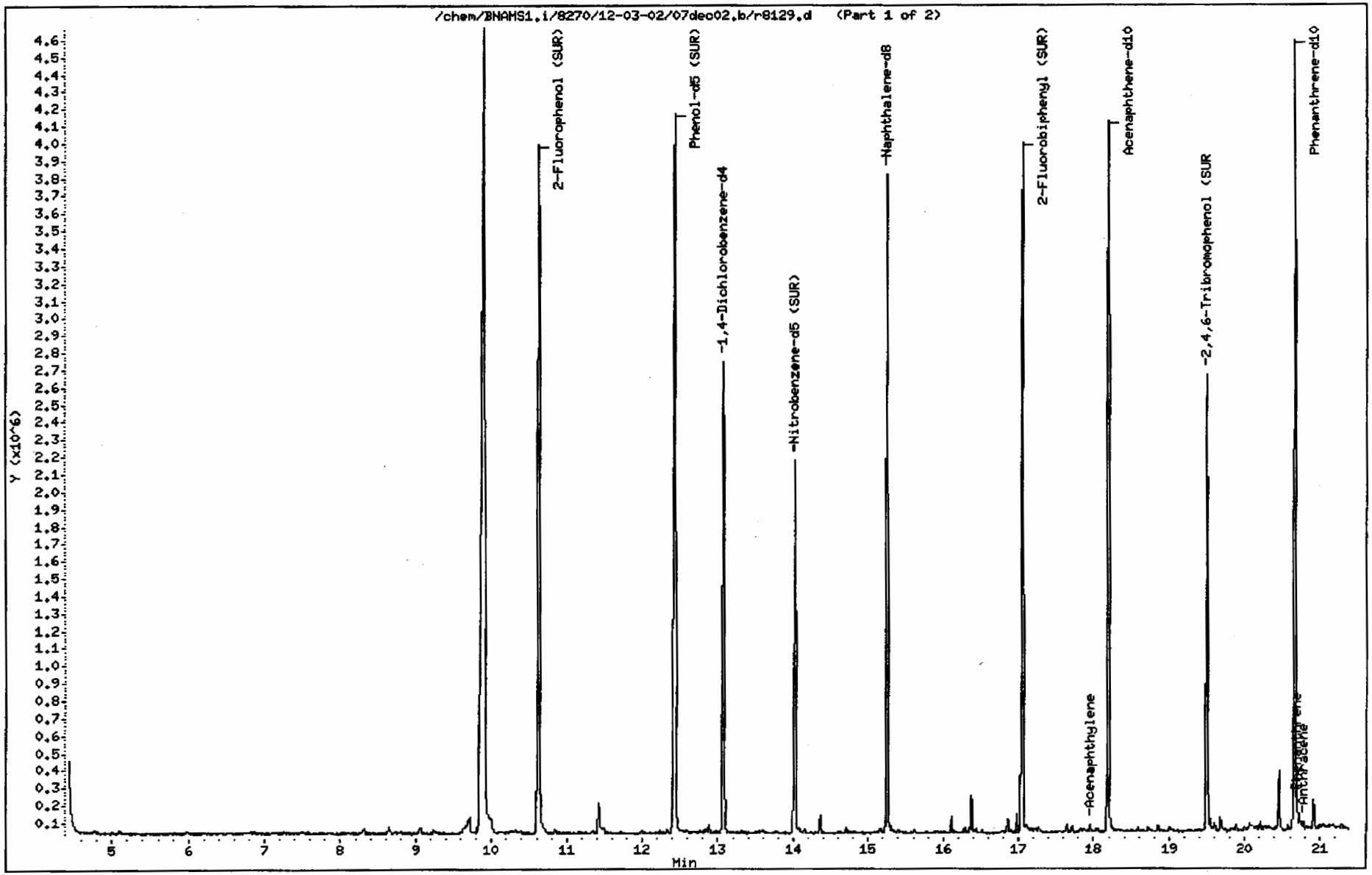
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d
Date : 07-DEC-2002 17:31
Client ID: HA-02-06-0-6
Sample Info: 392321;888542

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



814

STL Edison

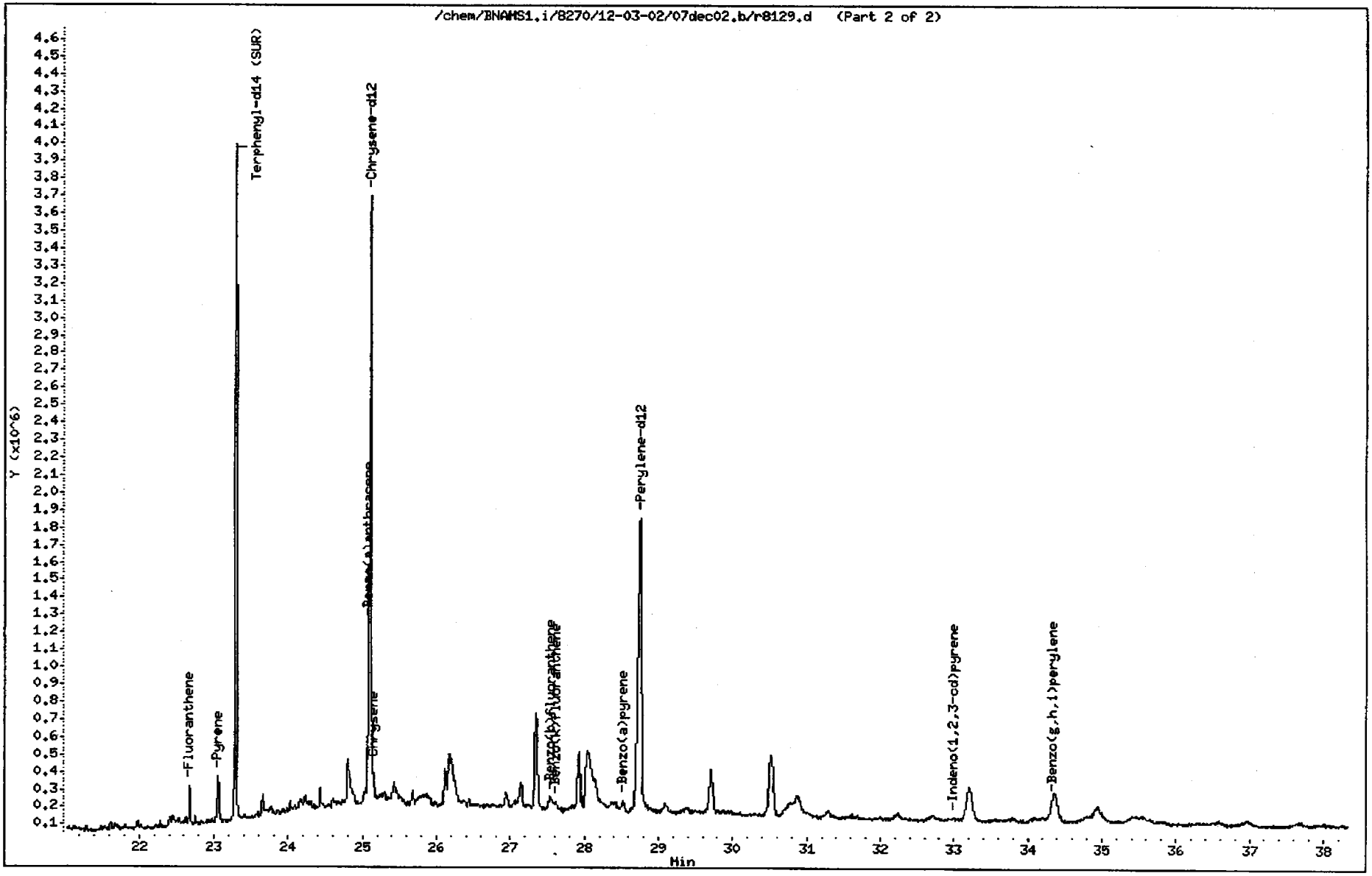
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d
Date : 07-DEC-2002 17:31
Client ID: HA-02-06-0-6
Sample Info: 392321;888542

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

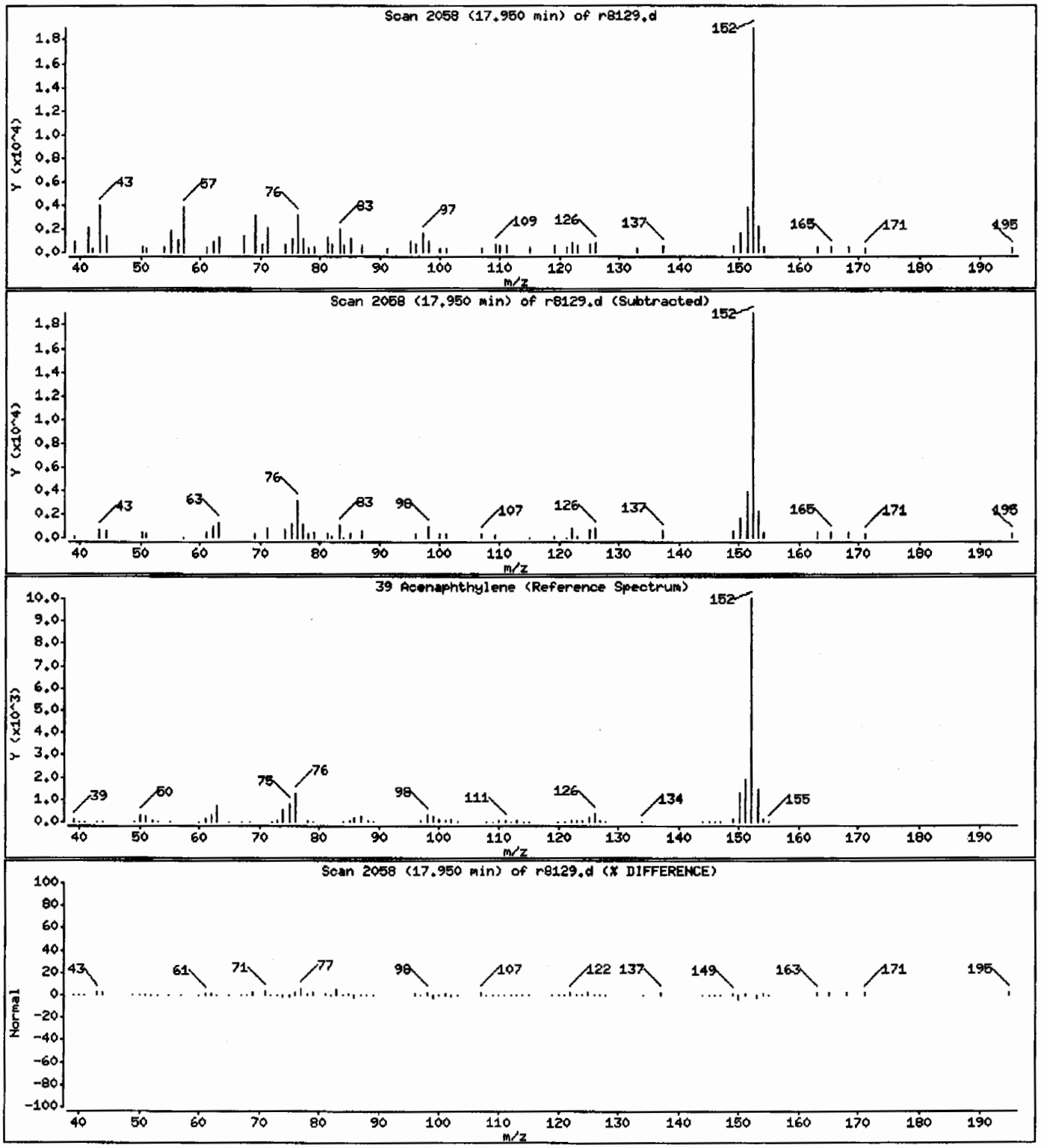
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

39 Acenaphthylene Concentration: 31 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

Client ID: HA-02-06-0-6

Instrument: BNAMS1.i

Sample Info: 392321;888542

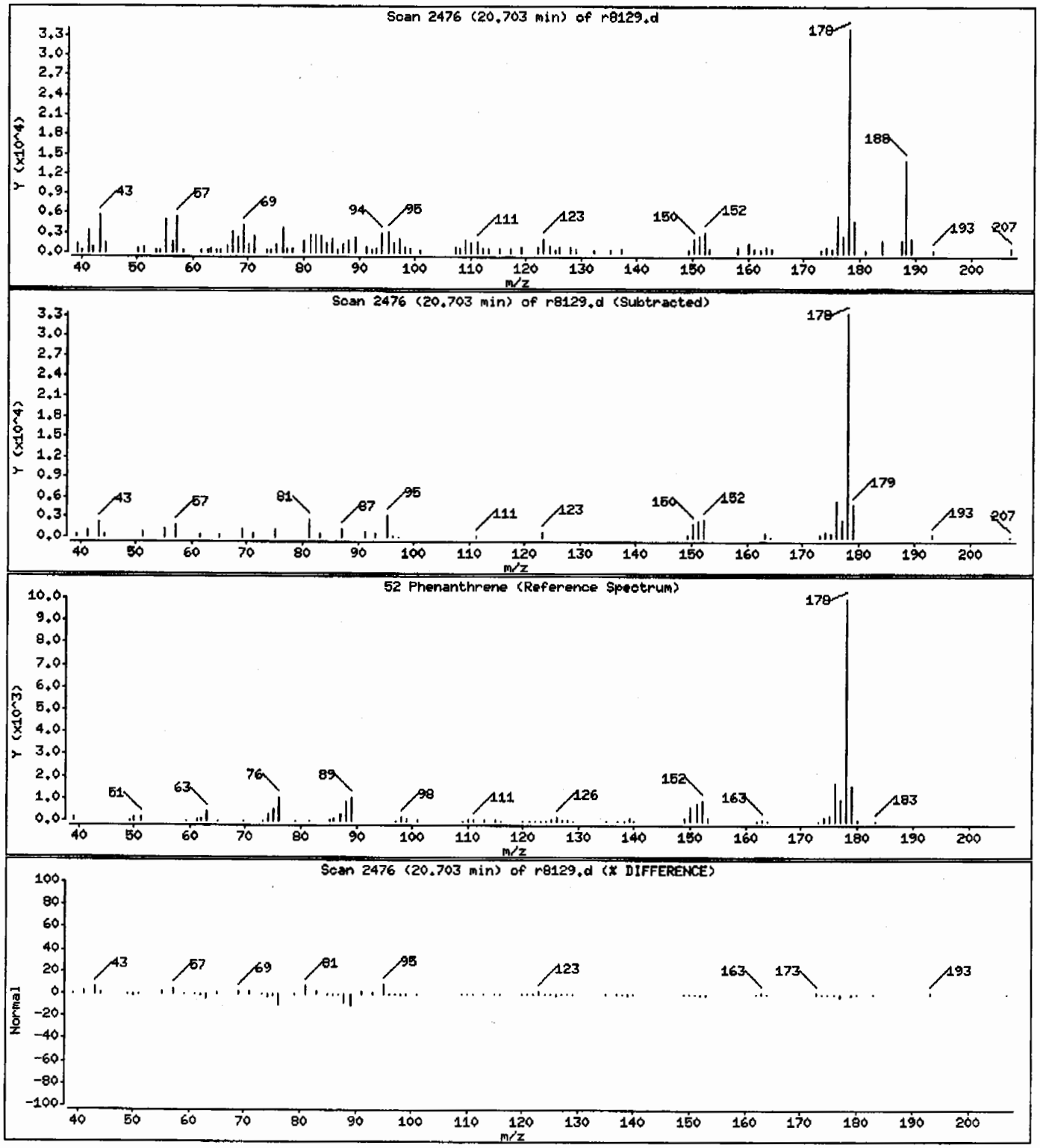
,Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 43 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

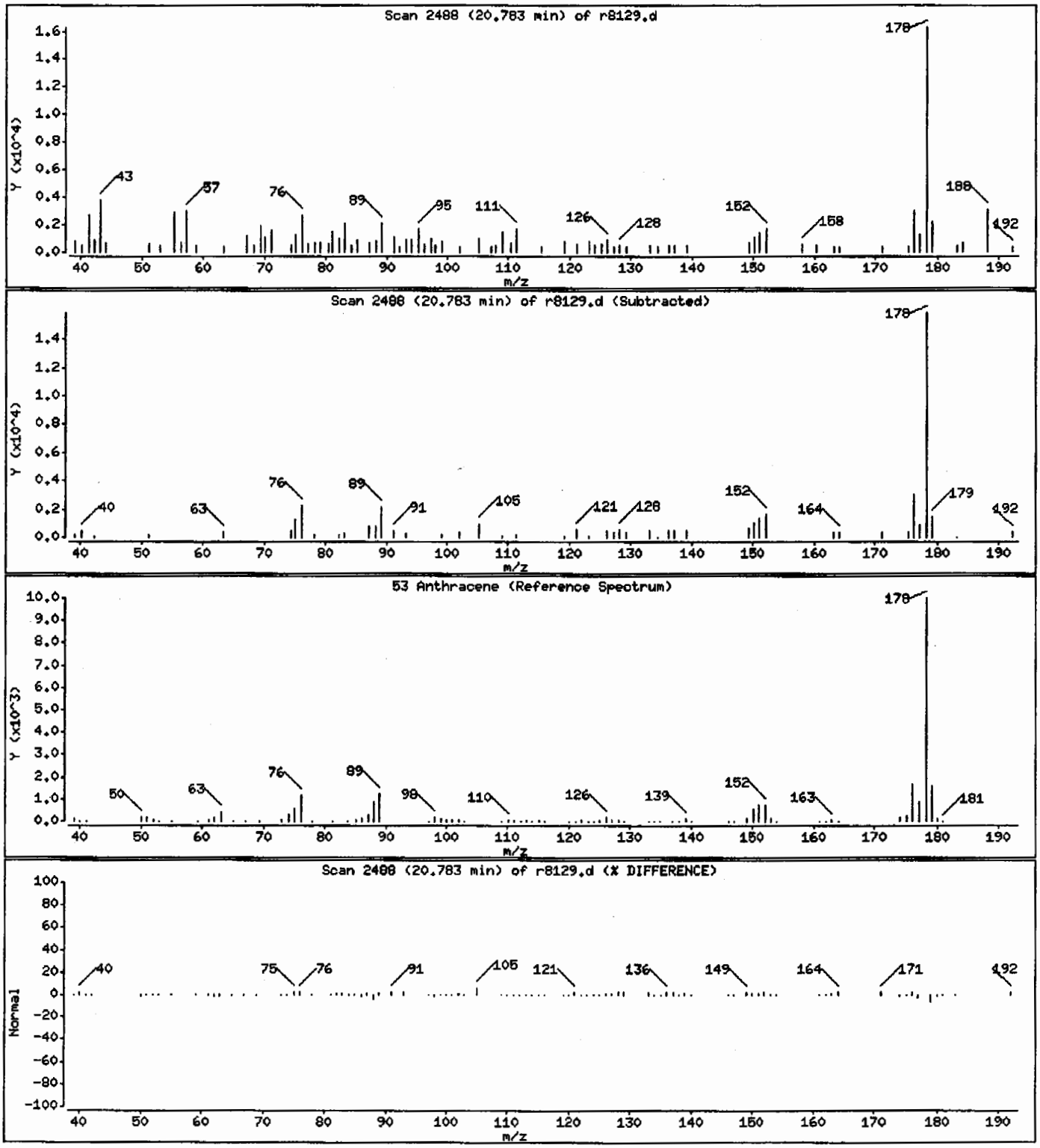
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

53 Anthracene Concentration: 22 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

Client ID: HA-02-06-0-6

Instrument: BNAMS1.i

Sample Info: 392321;888542

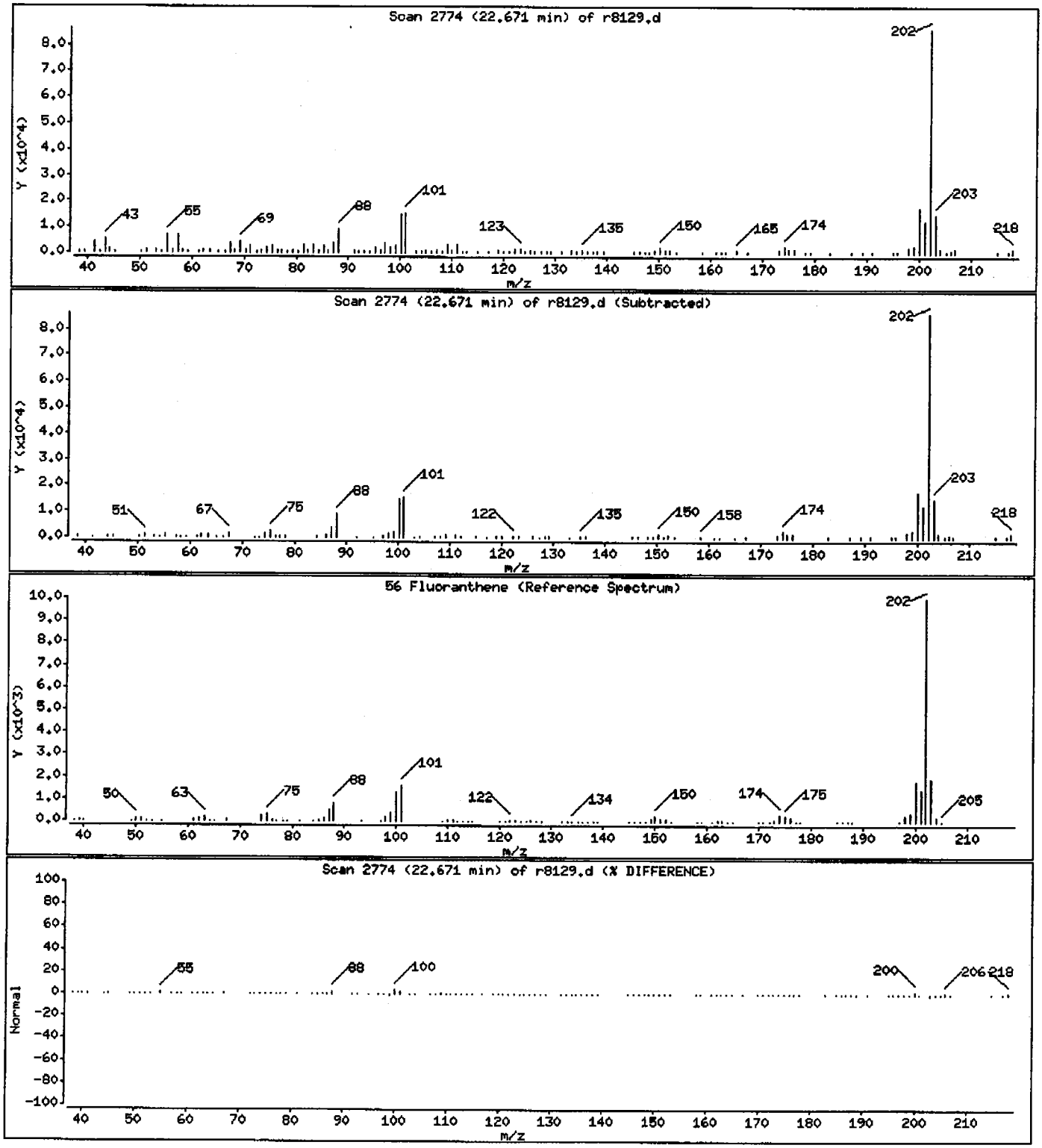
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 120 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

Client ID: HA-02-06-0-6

Instrument: BNAMS1.i

Sample Info: 392321;888542

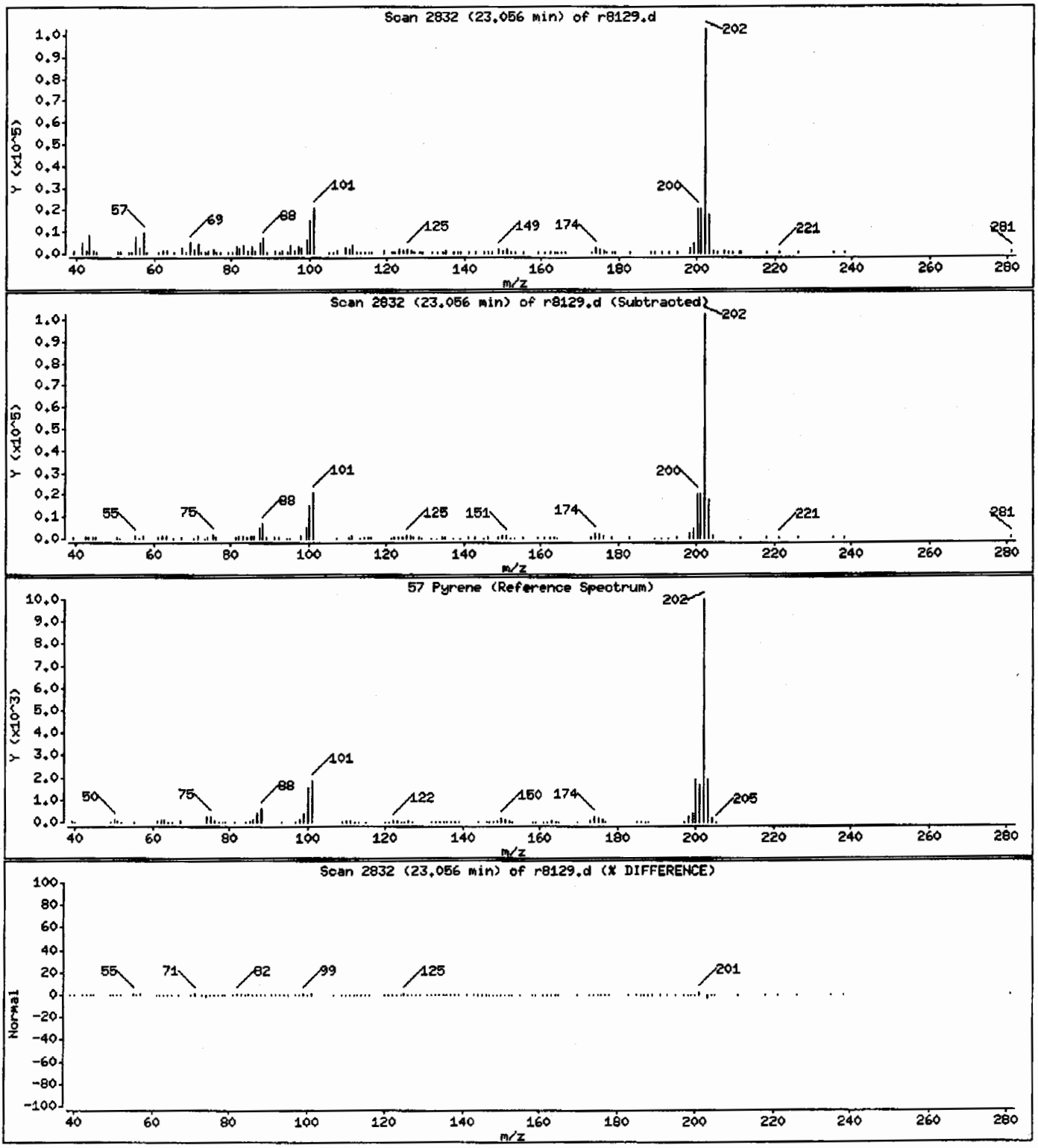
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 130 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

Client ID: HA-02-06-0-6

Instrument: BNAMS1.i

Sample Info: 392321;888542

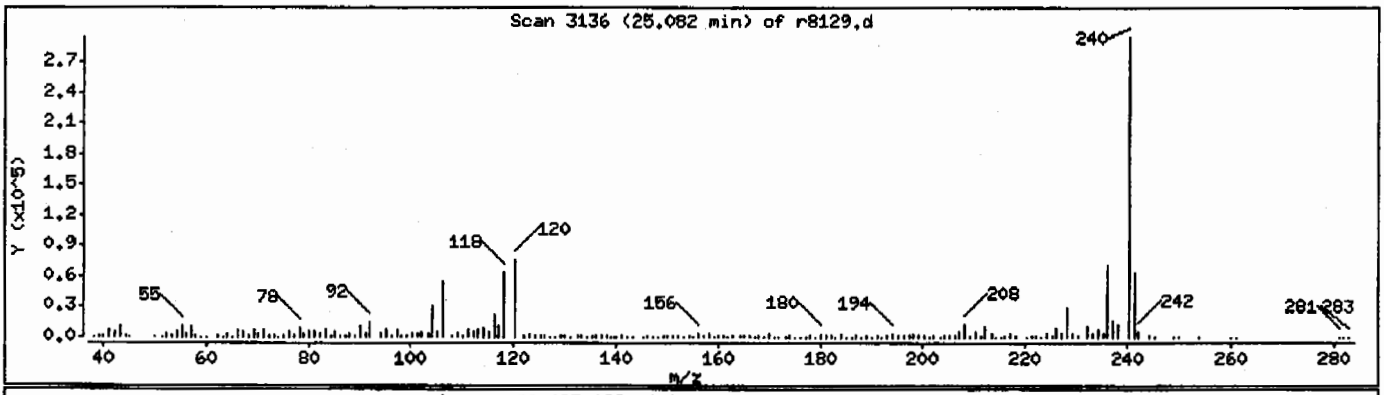
Operator: BNAMS 4

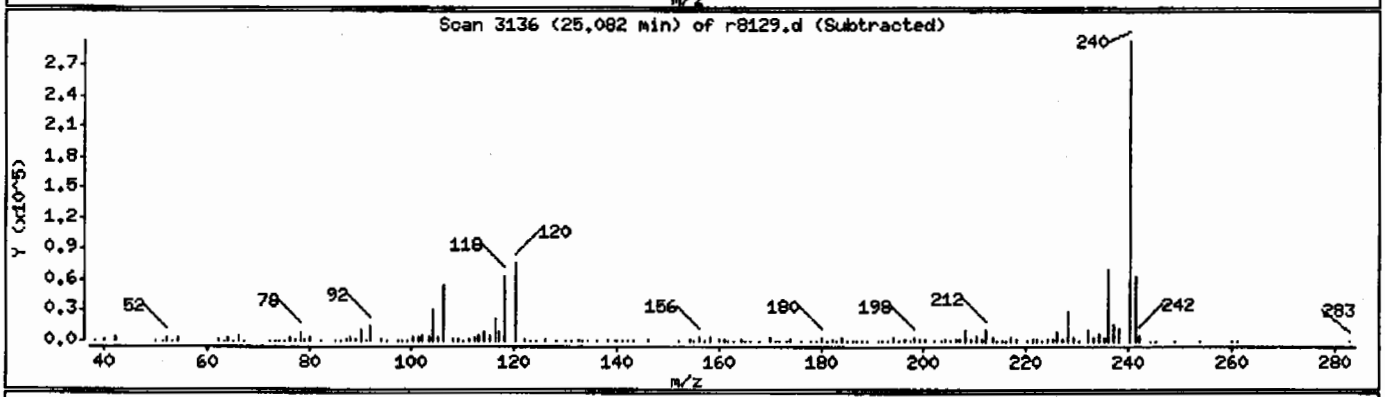
Column phase: DB-5

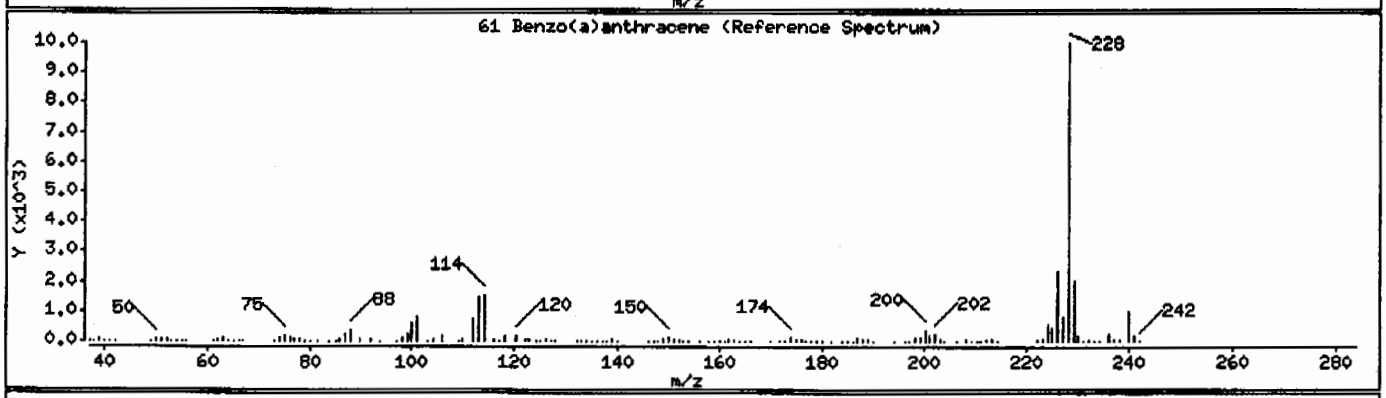
Column diameter: 0.25

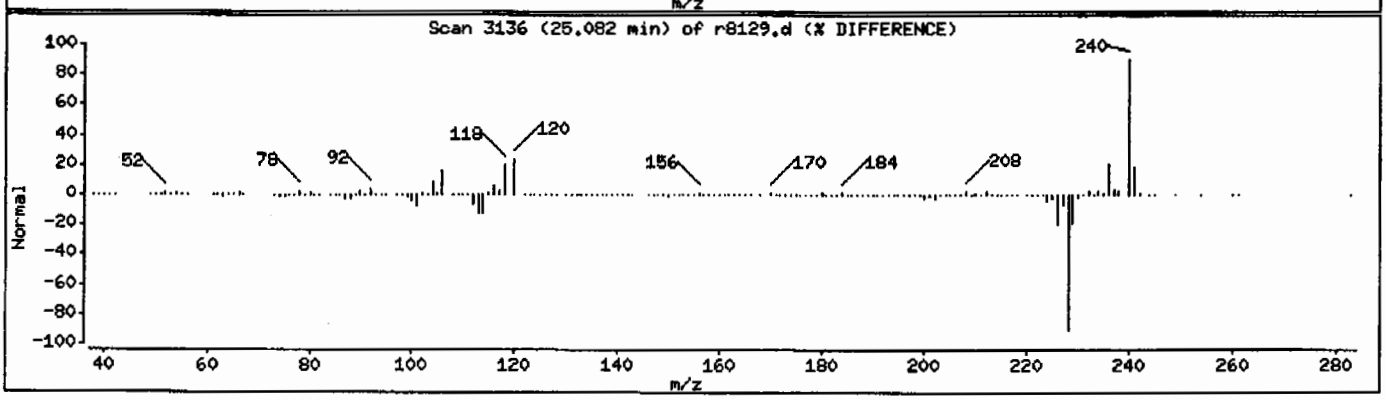
61 Benzo(a)anthracene

Concentration: 74 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

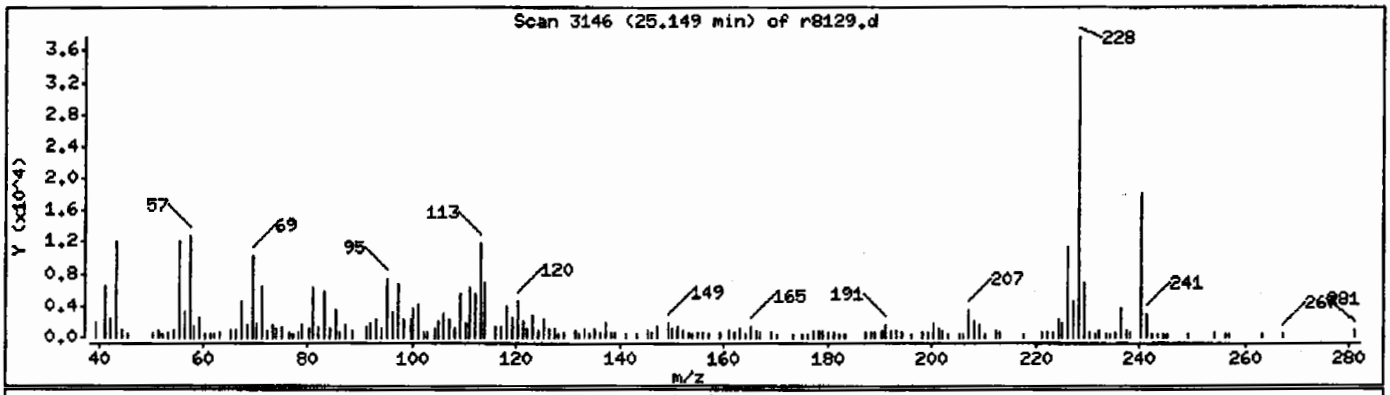
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

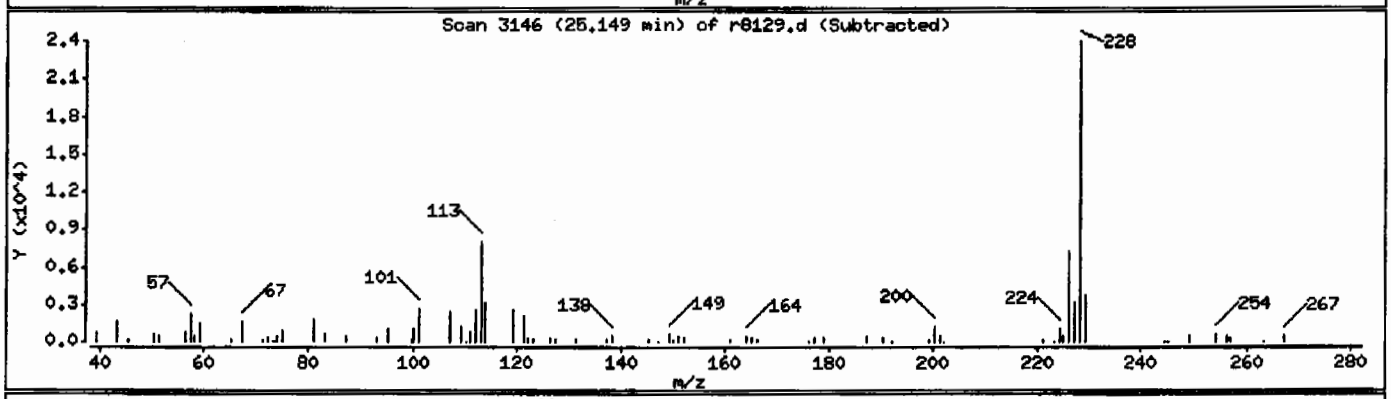
Sample Info: 392321;888542

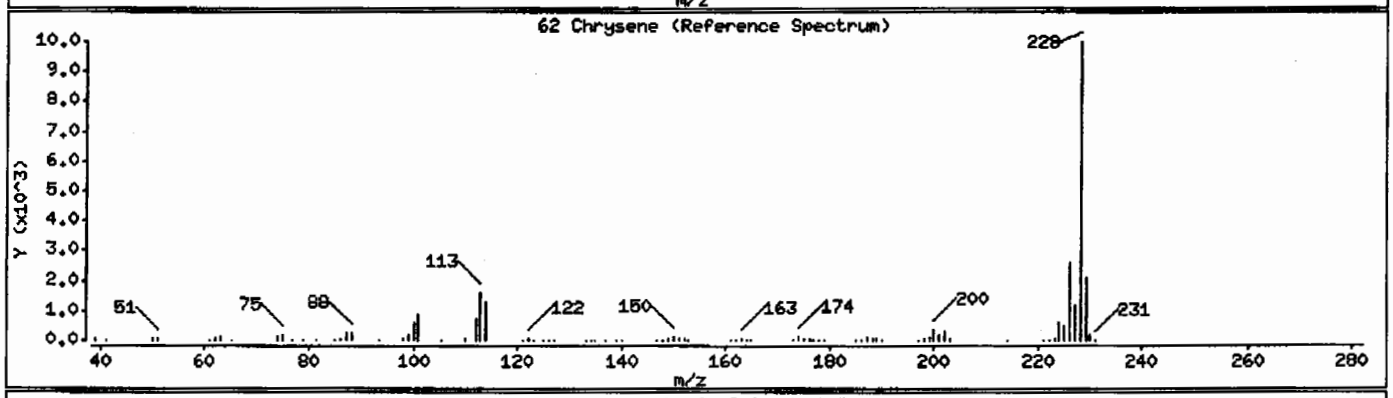
Operator: BNAMS 4

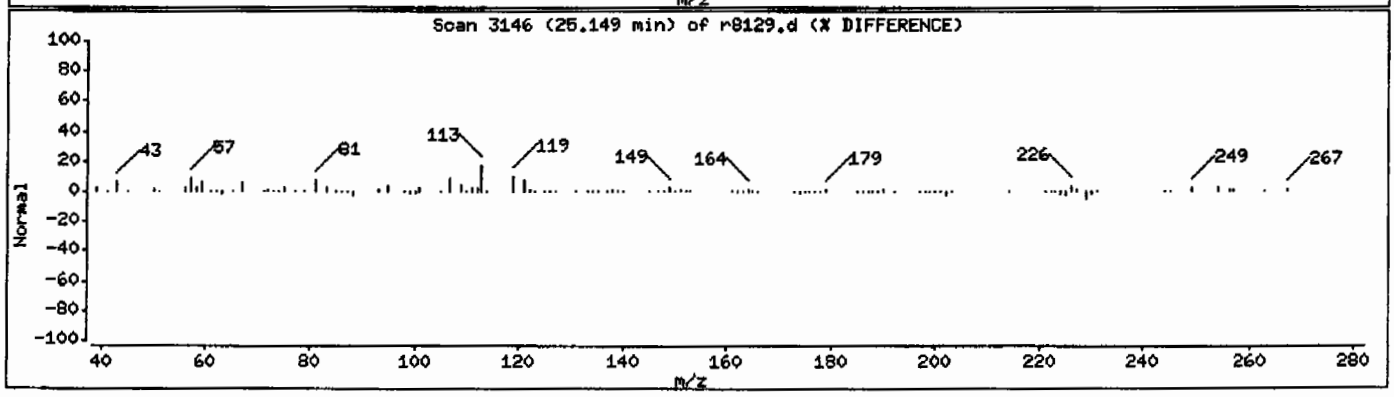
Column phase: DB-5 Column diameter: 0.25

62 Chrysene Concentration: 77 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

Client ID: HA-02-06-0-6

Instrument: BNAMS1.i

Sample Info: 392321;888542

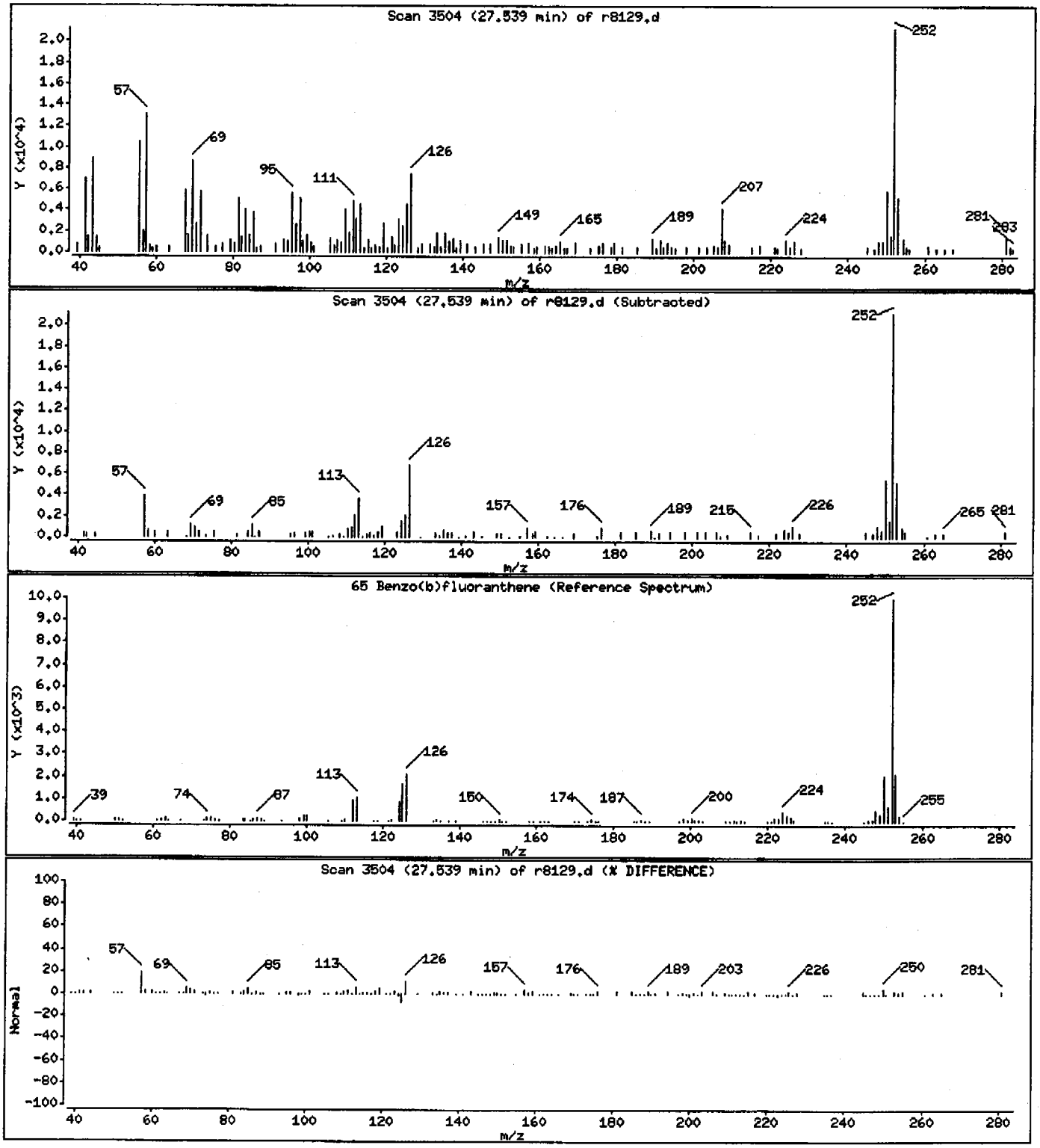
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 100 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

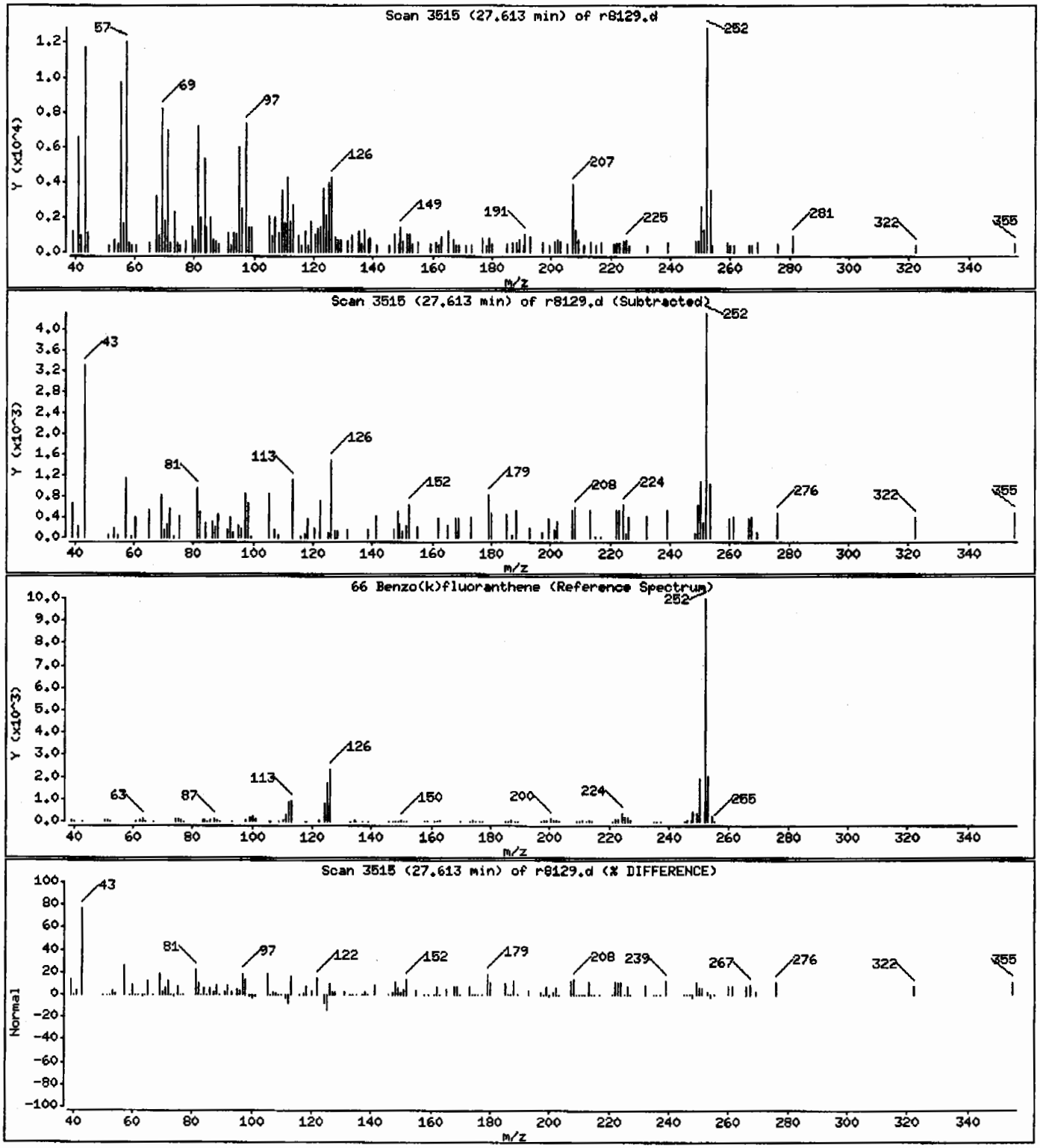
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

66 Benzo(k)fluoranthene Concentration: 40 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

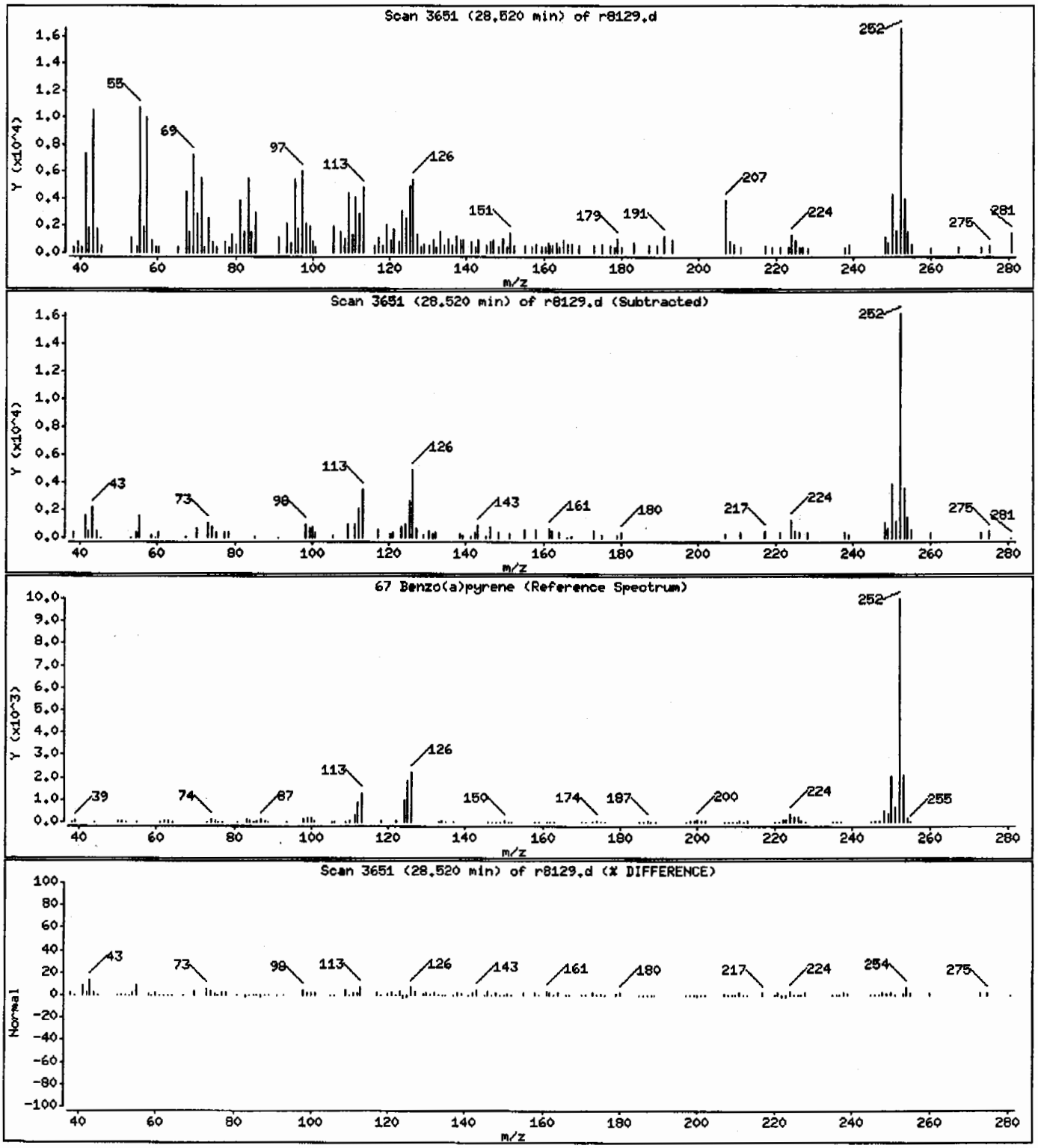
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

67 Benzo(a)pyrene Concentration: 73 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

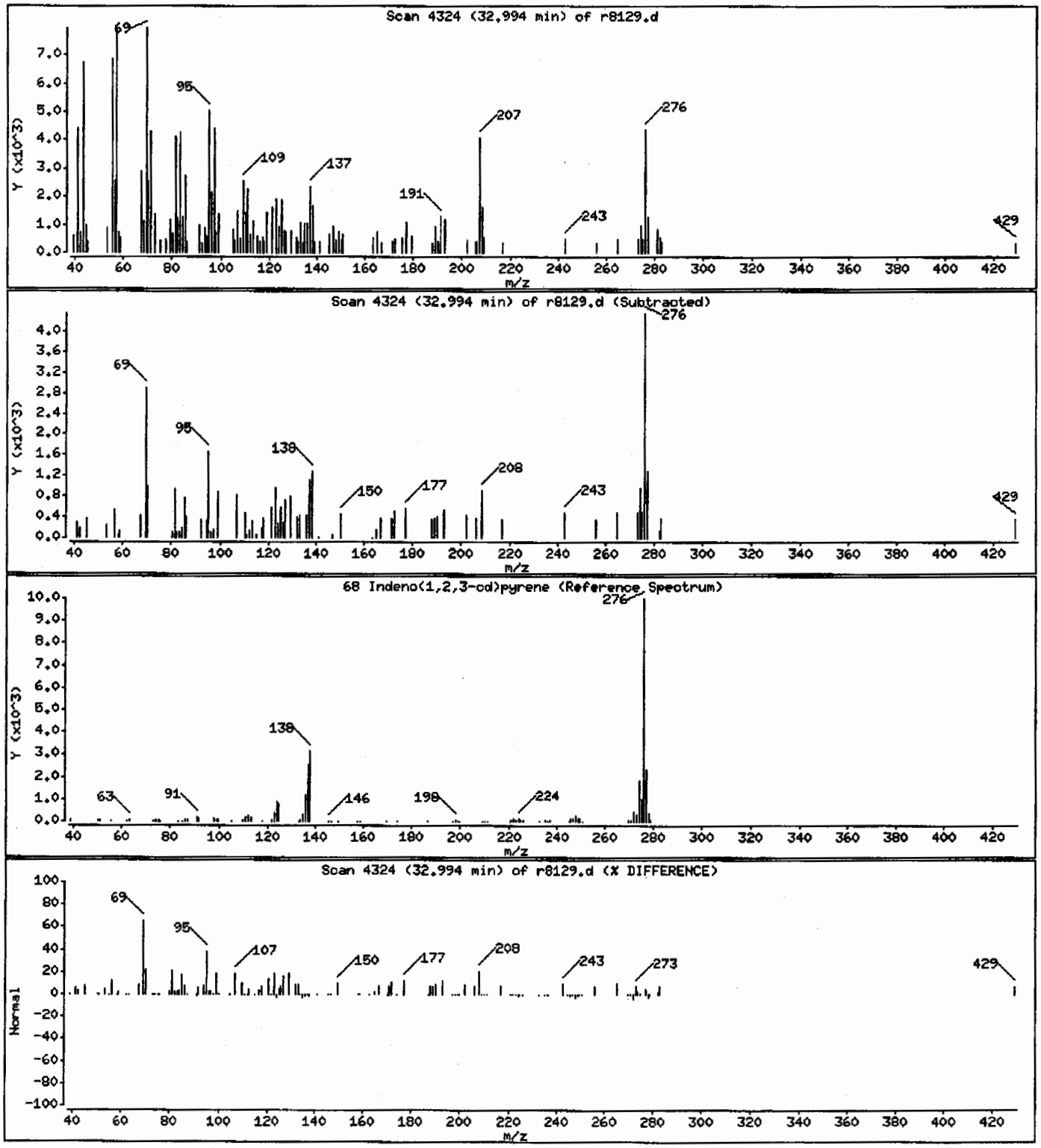
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

68 Indeno(1,2,3-cd)pyrene Concentration: 30 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

Client ID: HA-02-06-0-6

Instrument: BNAMS1.i

Sample Info: 392321;888542

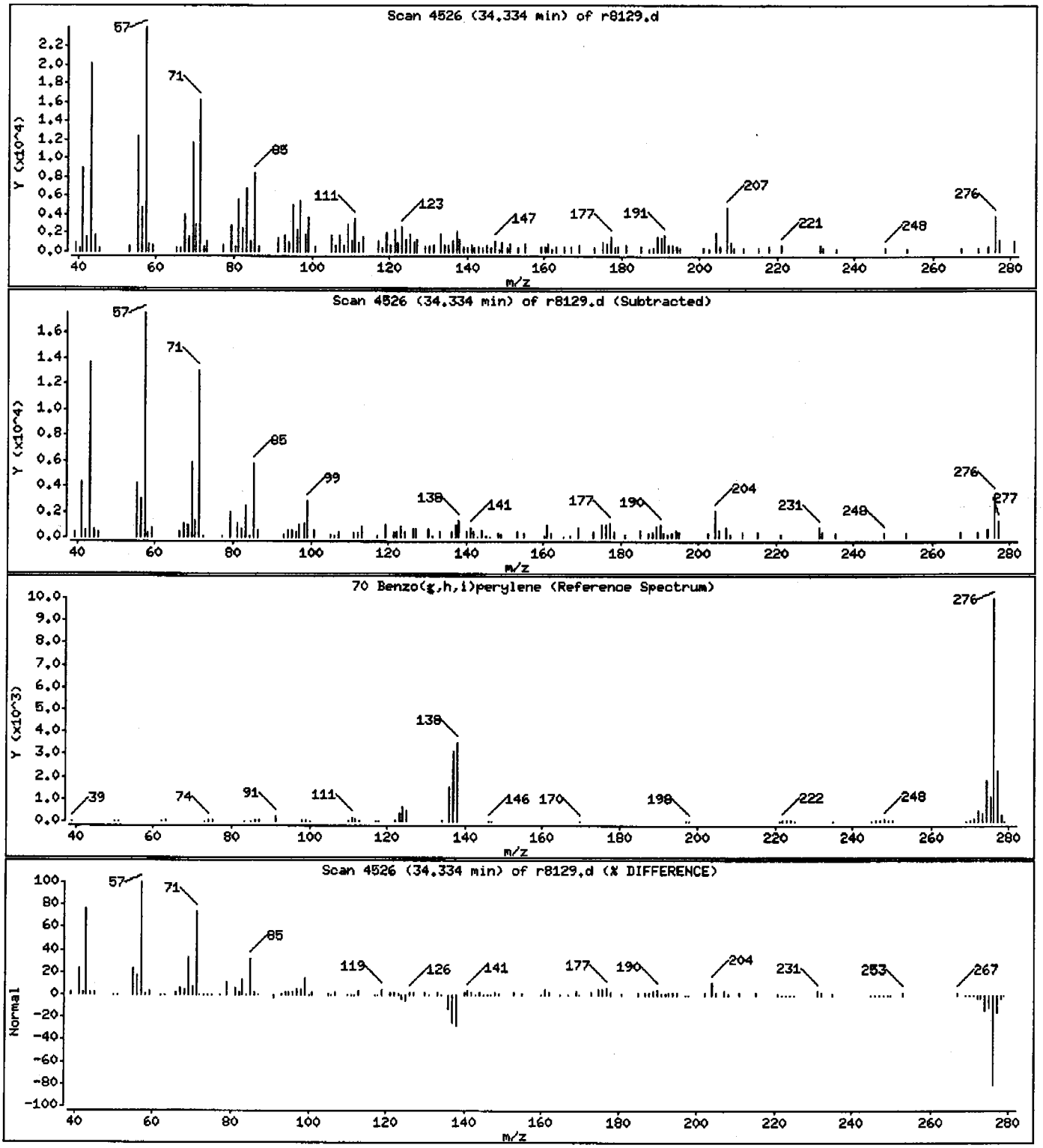
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 26 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

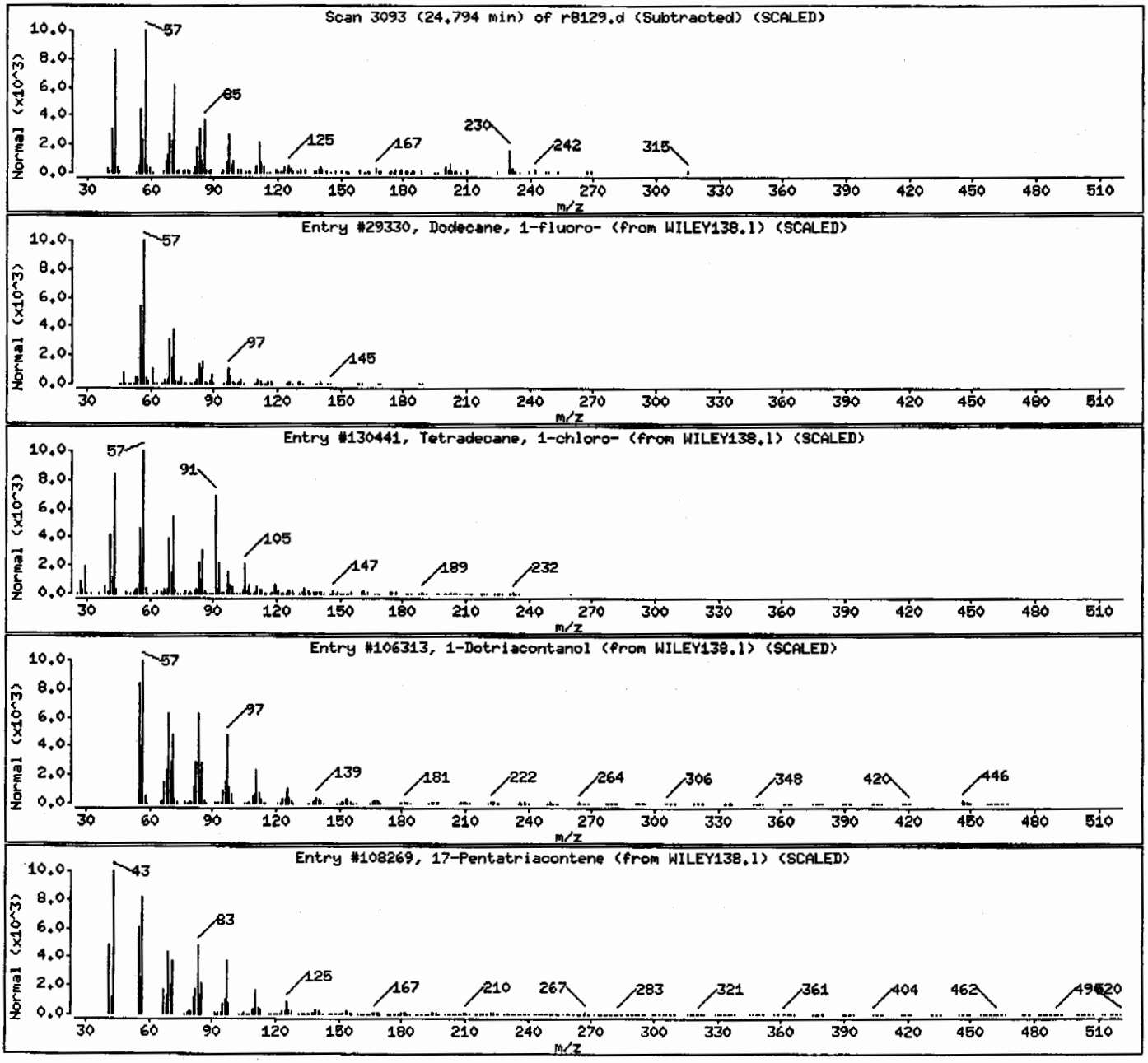
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Dodecane, 1-fluoro-	334-68-9	WILEY138.1	29330	80	C12H25F	188
Tetradecane, 1-chloro-	2425-54-9	WILEY138.1	130441	58	C14H29Cl	232
1-Dotriacontanol	6624-79-9	WILEY138.1	106313	49	C32H66O	467
17-Pentatriacontene	6971-40-0	WILEY138.1	108269	47	C35H70	491



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

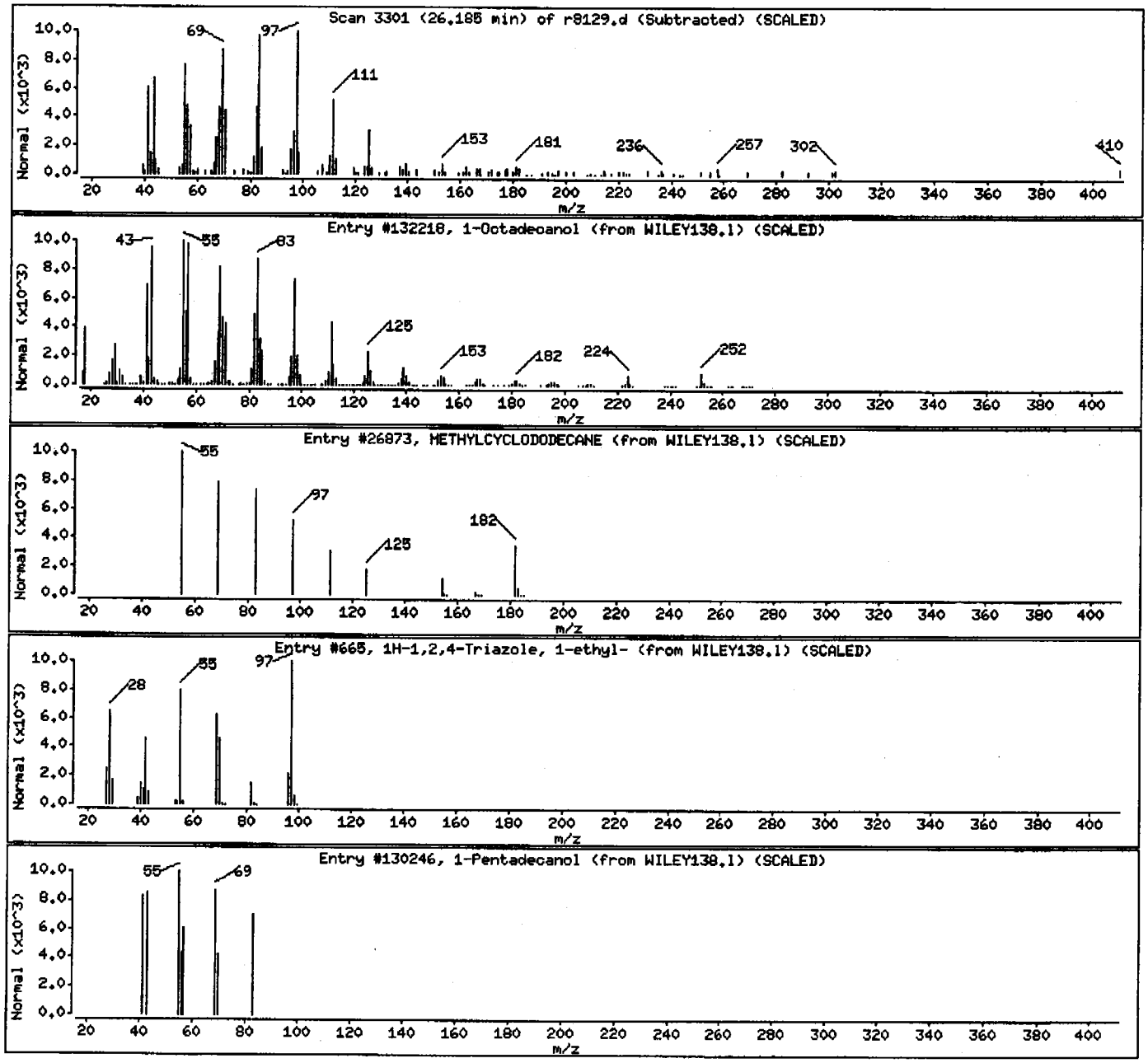
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Octadecanol	112-92-5	WILEY138.1	132218	72	C18H38O	270
METHYLCYCLODODECANE	1731-43-7	WILEY138.1	26873	52	C13H26	182
1H-1,2,4-Triazole, 1-ethyl-	16778-70-4	WILEY138.1	665	38	C4H7N3	97
1-Pentadecanol	629-76-5	WILEY138.1	130246	35	C15H32O	228



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

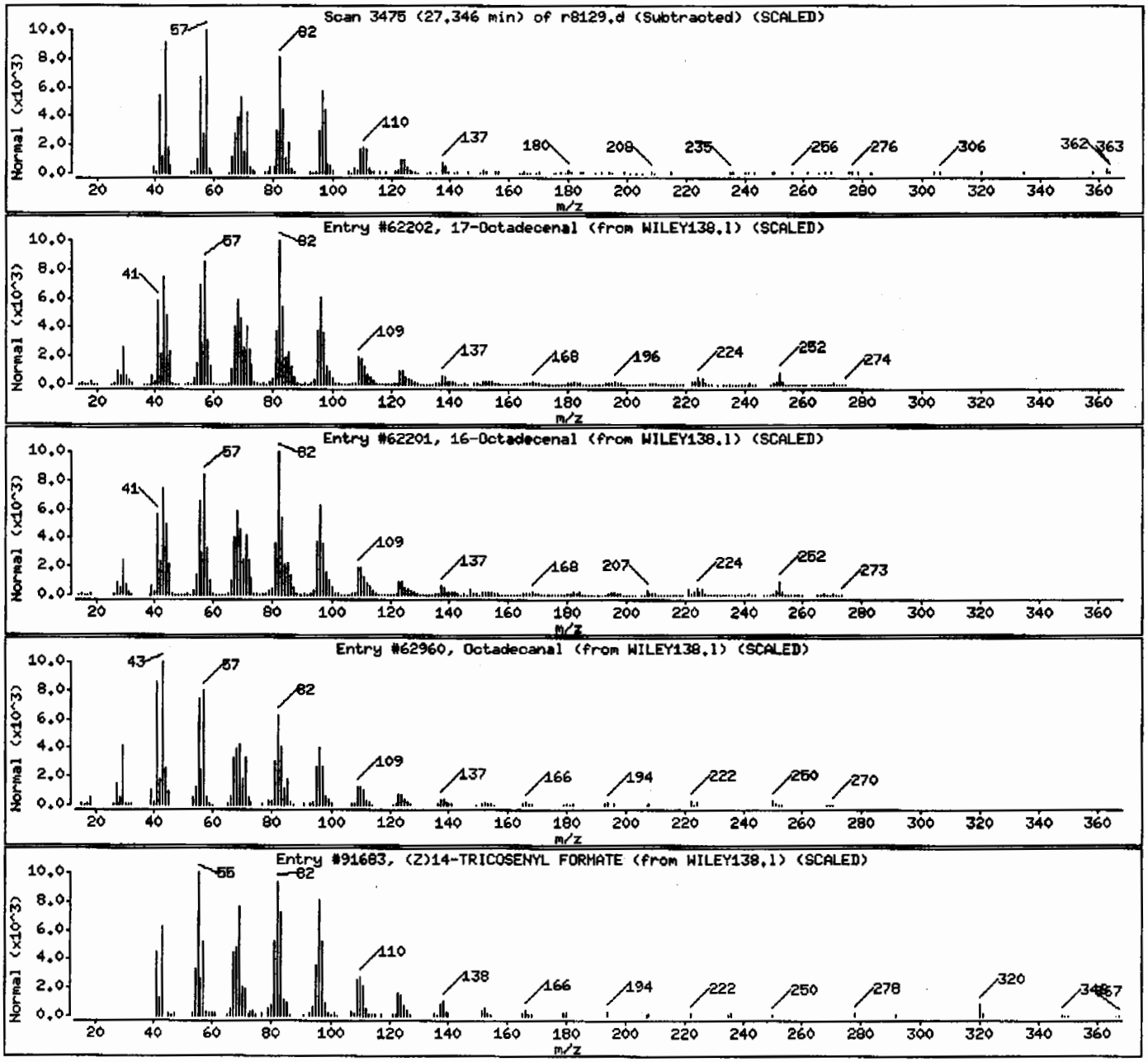
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
17-Octadecenal	56554-86-0	WILEY138.1	62202	80	C18H340	266
16-Octadecenal	56554-87-1	WILEY138.1	62201	72	C18H340	266
Octadecanal	638-66-4	WILEY138.1	62960	64	C18H360	268
(Z)14-TRICOSENYL FORMATE	77899-10-6	WILEY138.1	91683	55	C24H4602	366



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

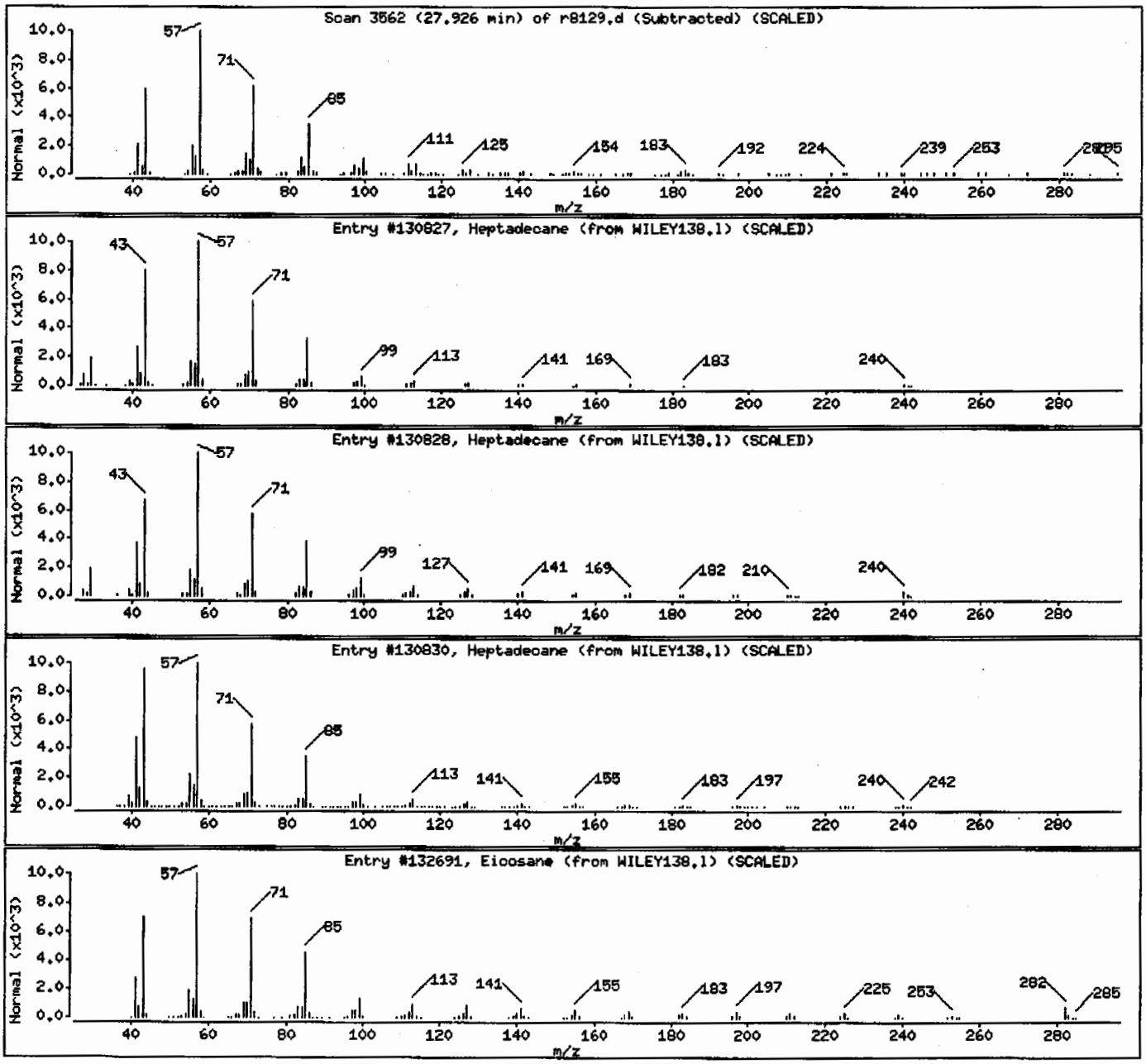
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heptadecane	629-78-7	WILEY138.1	130827	93	C17H36	240
Heptadecane	629-78-7	WILEY138.1	130828	91	C17H36	240
Heptadecane	629-78-7	WILEY138.1	130830	91	C17H36	240
Eicosane	112-95-8	WILEY138.1	132691	87	C20H42	282



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

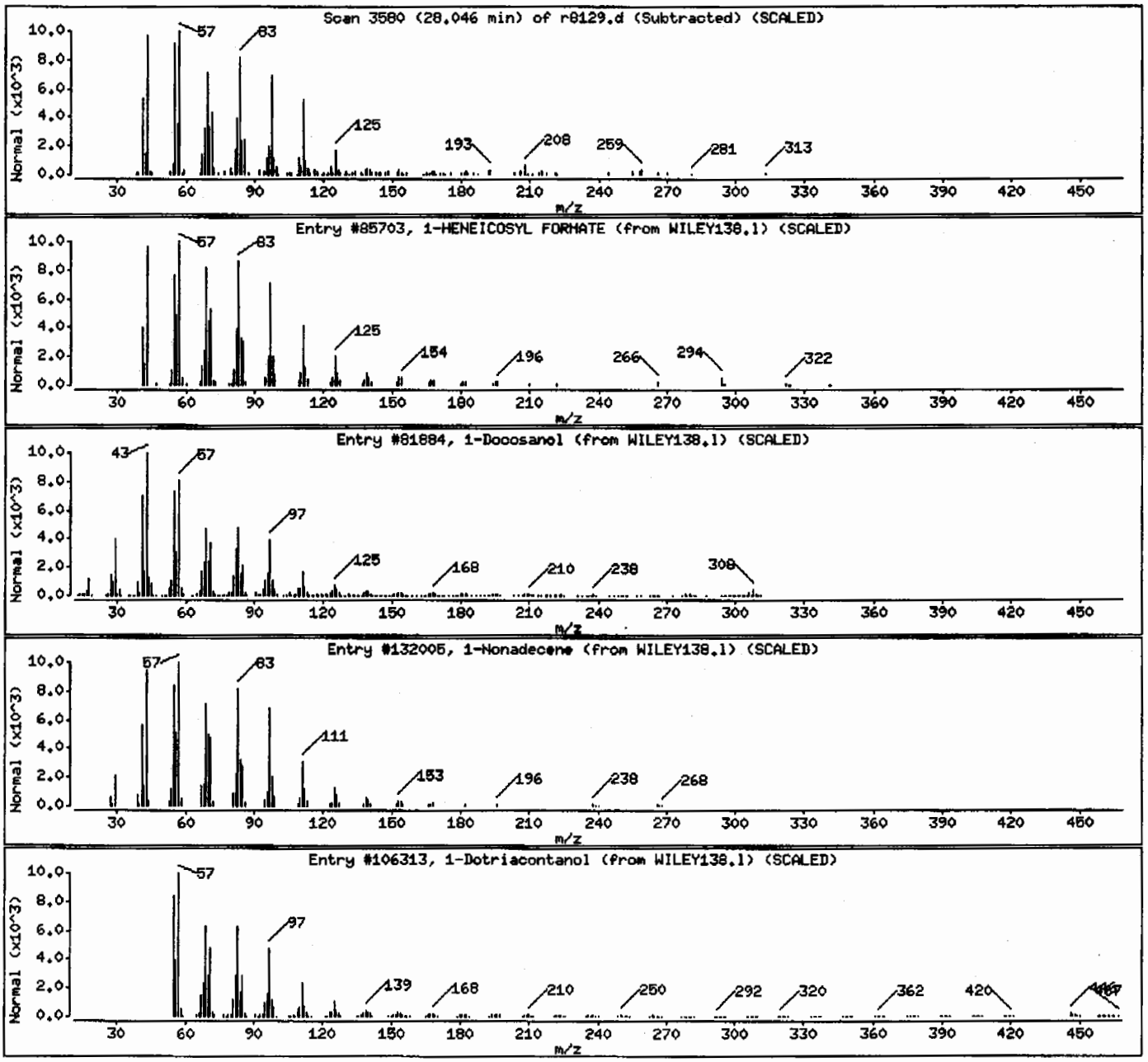
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-HENEICOSYL FORMATE	77899-03-7	WILEY138.1	85703	87	C22H4402	340
1-Docosanol	661-19-8	WILEY138.1	81884	87	C22H460	326
1-Nonadecene	18435-45-5	WILEY138.1	132005	76	C19H38	266
1-Dotriacontanol	6624-79-9	WILEY138.1	106313	68	C32H660	467



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

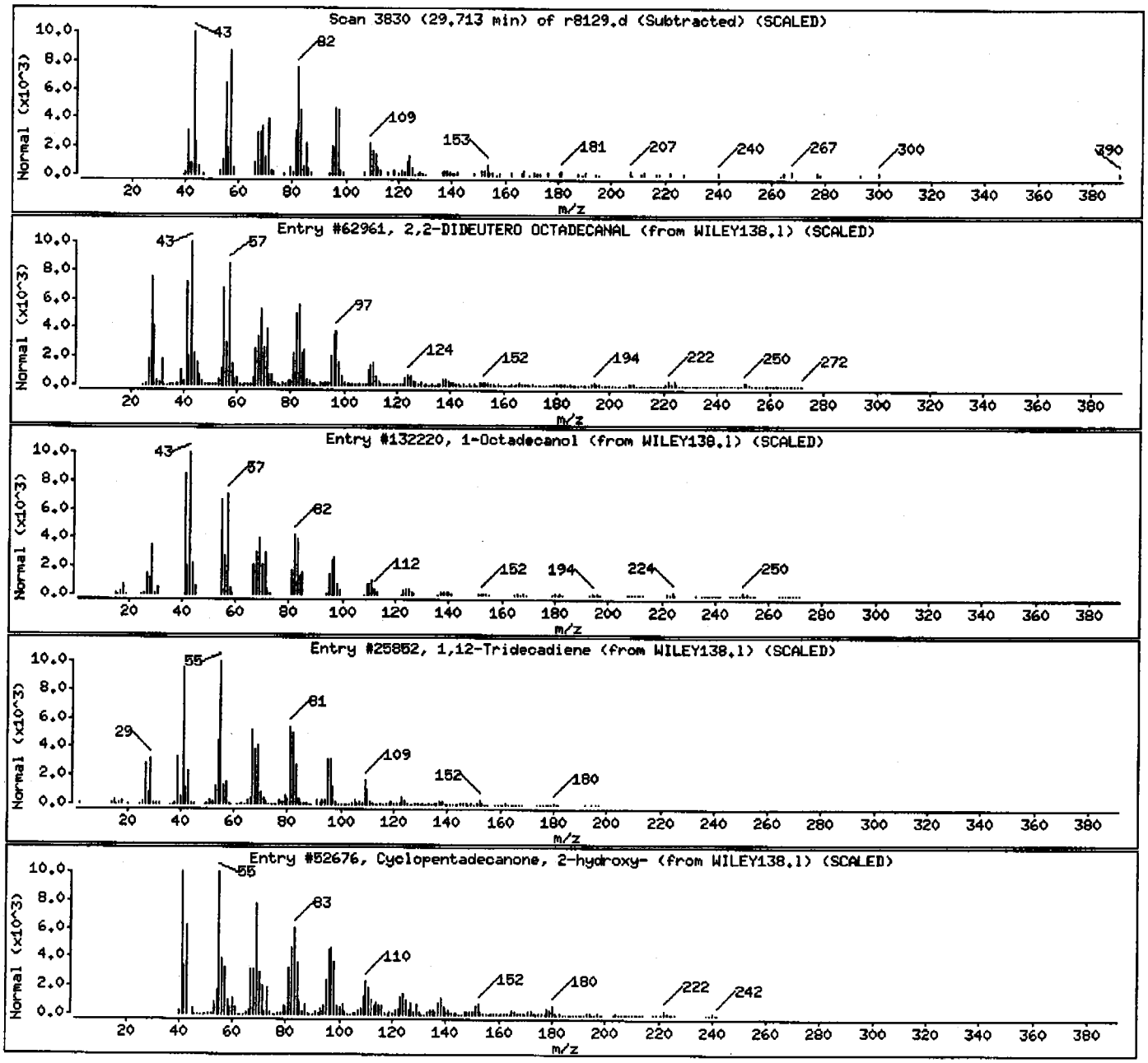
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,2-DIDEUTERO OCTADECANAL	56555-07-8	WILEY138.1	62961	58	C18H34D2O	268
1-Octadecanol	112-92-5	WILEY138.1	132220	49	C18H38O	270
1,12-Tridecadiene	21964-48-7	WILEY138.1	25852	49	C13H24	180
Cyclopentadecanone, 2-hydroxy-	4727-18-8	WILEY138.1	52676	49	C15H28O2	240



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

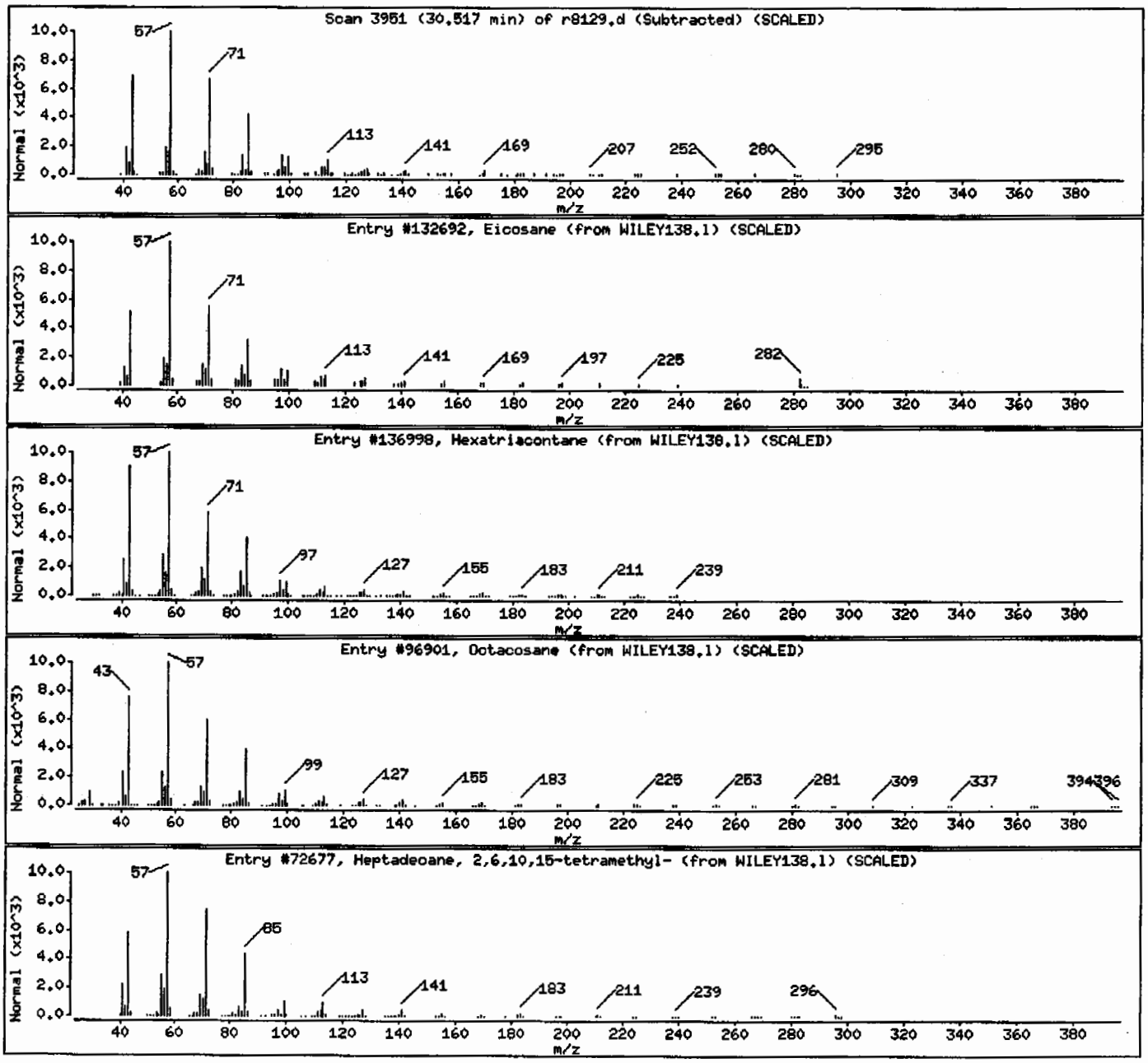
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Eicosane	112-95-8	WILEY138.1	132692	90	C20H42	282
Hexatriacontane	630-06-8	WILEY138.1	136998	90	C36H74	507
Octacosane	630-02-4	WILEY138.1	96901	87	C28H58	394
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	WILEY138.1	72677	86	C21H44	296



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

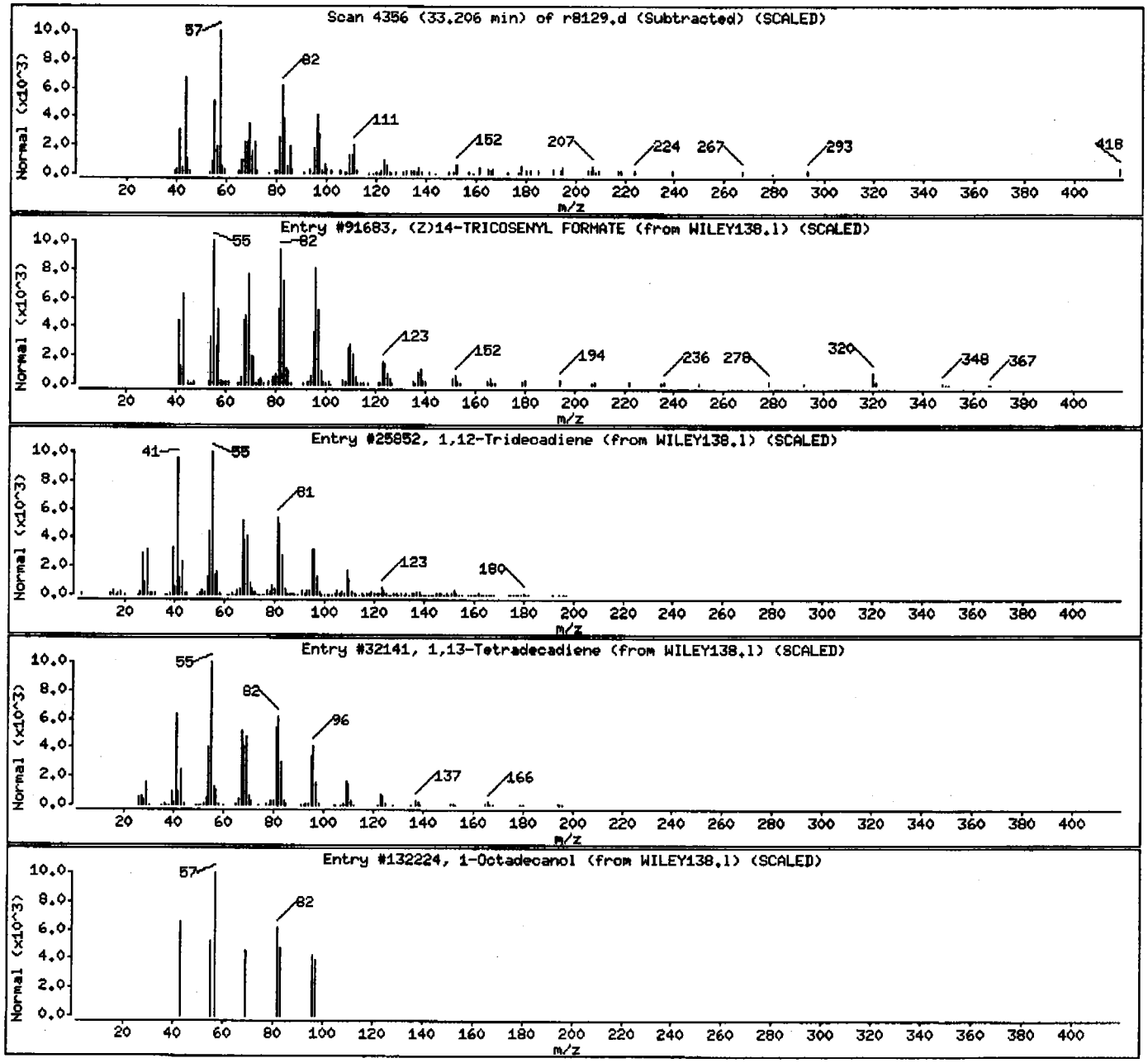
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321;888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
(Z)14-TRICOSENYL FORMATE	77899-10-6	WILEY138.1	91683	83	C24H4602	366
1,12-Tridecadiene	21964-48-7	WILEY138.1	25852	58	C13H24	180
1,13-Tetradecadiene	21964-49-8	WILEY138.1	32141	52	C14H26	194
1-Octadecanol	112-92-5	WILEY138.1	132224	50	C18H380	270



Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8129.d

Date : 07-DEC-2002 17:31

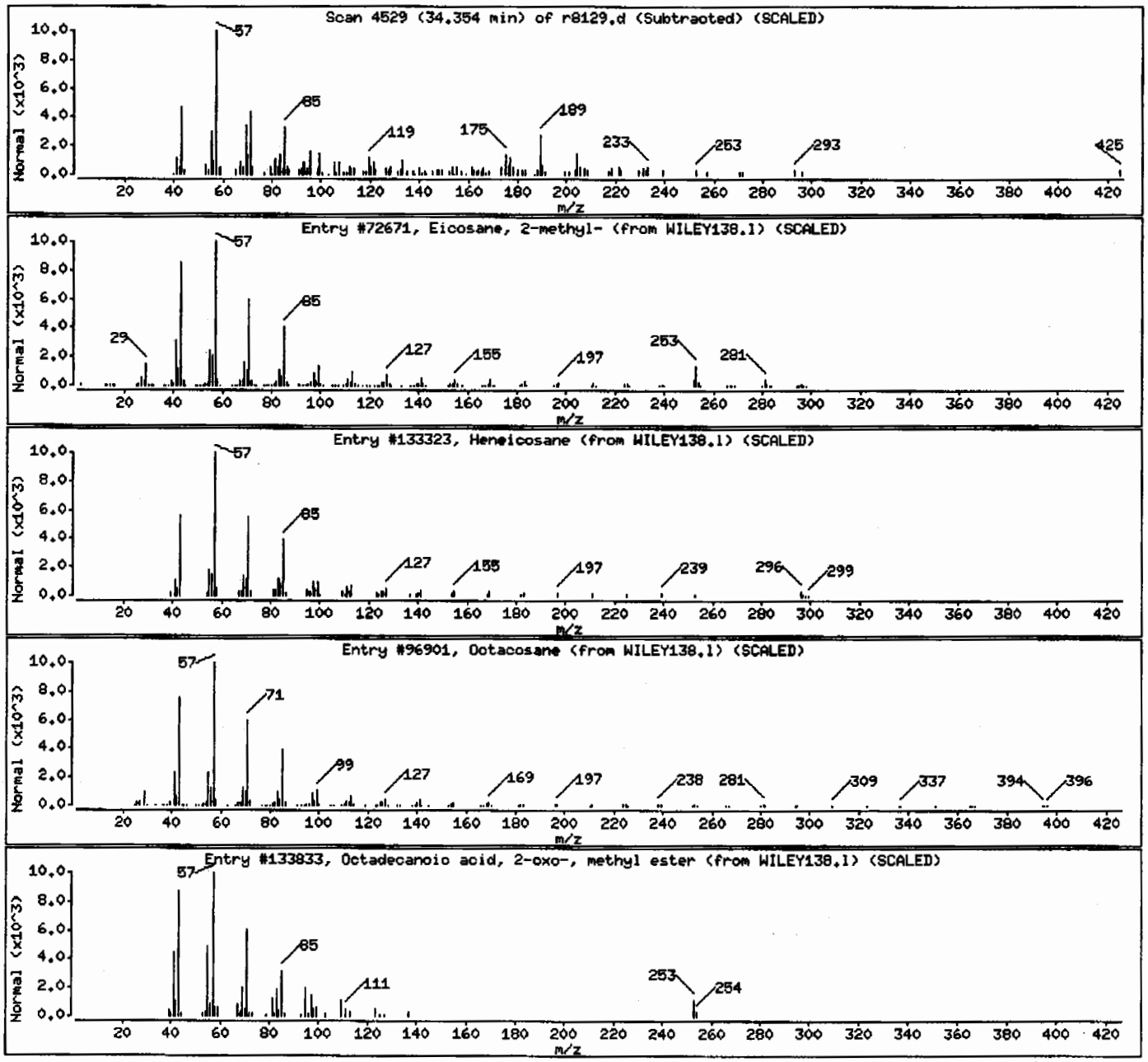
Client ID: HA-02-06-0-6 Instrument: BNAMS1.i

Sample Info: 392321:888542

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Eicosane, 2-methyl-	1560-84-5	WILEY138.1	72671	41	C21H44	296
Heneicosane	629-94-7	WILEY138.1	133323	38	C21H44	296
Octacosane	630-02-4	WILEY138.1	96901	35	C28H58	394
Octadecanoic acid, 2-oxo-, methyl ester	2380-18-9	WILEY138.1	133833	35	C19H36O3	312



Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8140.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8140.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	27 J	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	ND	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	57 J	380
Anthracene	17 J	380

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8140.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	7.7J	380
Di-n-butylphthalate	ND	380
Fluoranthene	97 J	380
Pyrene	110 J	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	47	38
Chrysene	74 J	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	79	38
Benzo(k)fluoranthene	36 J	38
Benzo(a)pyrene	60	38
Indeno(1,2,3-cd)pyrene	44	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	42 J	380

Client ID: **HA-02-05-0-6**
Site: Earle NWS Closure

Lab Sample No: **392322**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/08/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8140.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	16.36	340	
2. Unknown	26.14	730	
3. Unknown	27.30	720	
4. Unknown Alkane	27.87	500	
5. Unknown	27.99	1200	
6. Unknown	29.64	400	
7. Unknown Alkane	30.44	800	
8. Unknown	33.10	410	
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 5100

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d
Report Date: 09-Dec-2002 10:18

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d
Lab Smp Id: 392322 Client Smp ID: HA-02-05-0-6
Inj Date : 08-DEC-2002 13:36
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392322;888577
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/08dec02.b/8270c1.m
Meth Date : 08-Dec-2002 07:17 czhao Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	11.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.620	10.592	(0.813)	3217431	88.4340	6700
$ 17 Phenol-d5 (SUR)	99	12.420	12.411	(0.951)	3914471	96.3591	7300
* 79 1,4-Dichlorobenzene-d4	152	13.056	13.055	(1.000)	765419	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.013	14.015	(0.920)	1340059	43.9588	3300
* 80 Naphthalene-d8	136	15.232	15.239	(1.000)	3123310	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.029	17.032	(0.937)	2864300	48.9853	3700
39 Acenaphthylene	152	17.935	17.943	(0.987)	26437	0.36332	27(a)
* 82 Acenaphthene-d10	164	18.172	18.173	(1.000)	1797055	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.480	19.482	(1.072)	809590	86.9634	6600
* 83 Phenanthrene-d10	188	20.646	20.651	(1.000)	3335820	40.0000	
52 Phenanthrene	178	20.679	20.691	(1.002)	60060	0.75047	57(a)
53 Anthracene	178	20.765	20.777	(1.006)	18668	0.22612	17(a)
54 Carbazole	167	21.009	21.027	(1.018)	7138	0.10129	7.7(a)
56 Fluoranthene	202	22.653	22.665	(1.097)	112101	1.28723	97(a)

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d
Report Date: 09-Dec-2002 10:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
57 Pyrene	202	23.037	23.049	(0.919)	116033	1.46648	110(a)
$ 78 Terphenyl-d14 (SUR)	244	23.276	23.273	(0.928)	2765880	55.8236	4200
61 Benzo(a)anthracene	228	25.049	25.061	(0.999)	39564	0.62712	47
* 81 Chrysene-d12	240	25.075	25.094	(1.000)	2307965	40.0000	
62 Chrysene	228	25.116	25.148	(1.002)	57635	0.97949	74(a)
65 Benzo(b)fluoranthene	252	27.496	27.539	(0.958)	69136	1.04106	79(H)
66 Benzo(k)fluoranthene	252	27.570	27.626	(0.961)	29222	0.47100	36(a)
67 Benzo(a)pyrene	252	28.482	28.528	(0.993)	48260	0.79446	60
* 84 Perylene-d12	264	28.695	28.701	(1.000)	2343980	40.0000	
68 Indeno(1,2,3-cd)pyrene	276	32.901	32.997	(1.147)	38102	0.58536	44(M)
70 Benzo(g,h,i)perylene	276	34.247	34.387	(1.193)	37040	0.55336	42(aM)

QC Flag Legend

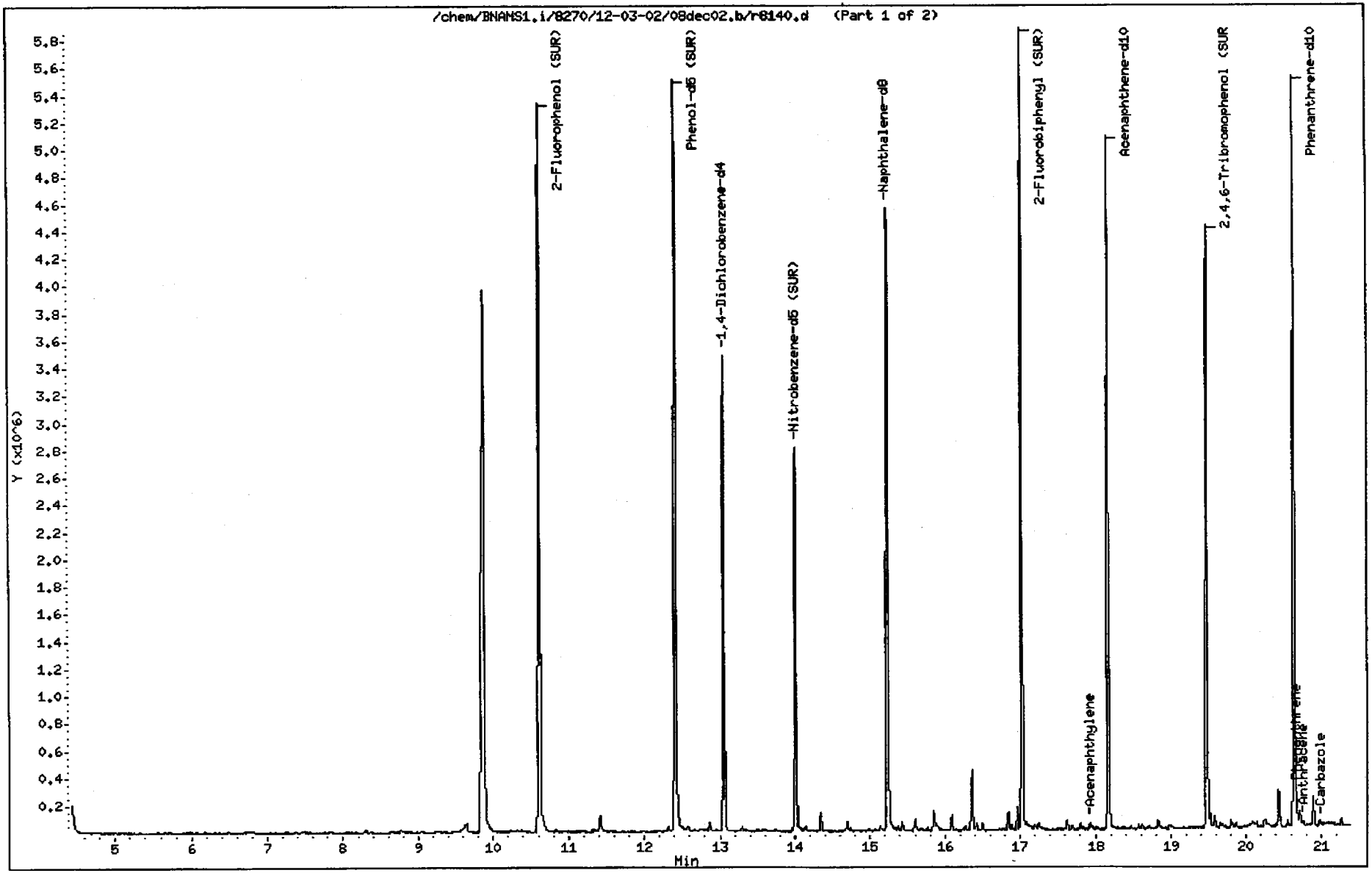
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d
Date : 08-DEC-2002 13:36
Client ID: HA-02-05-0-6
Sample Info: 392322;888577

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



843

STL Edison

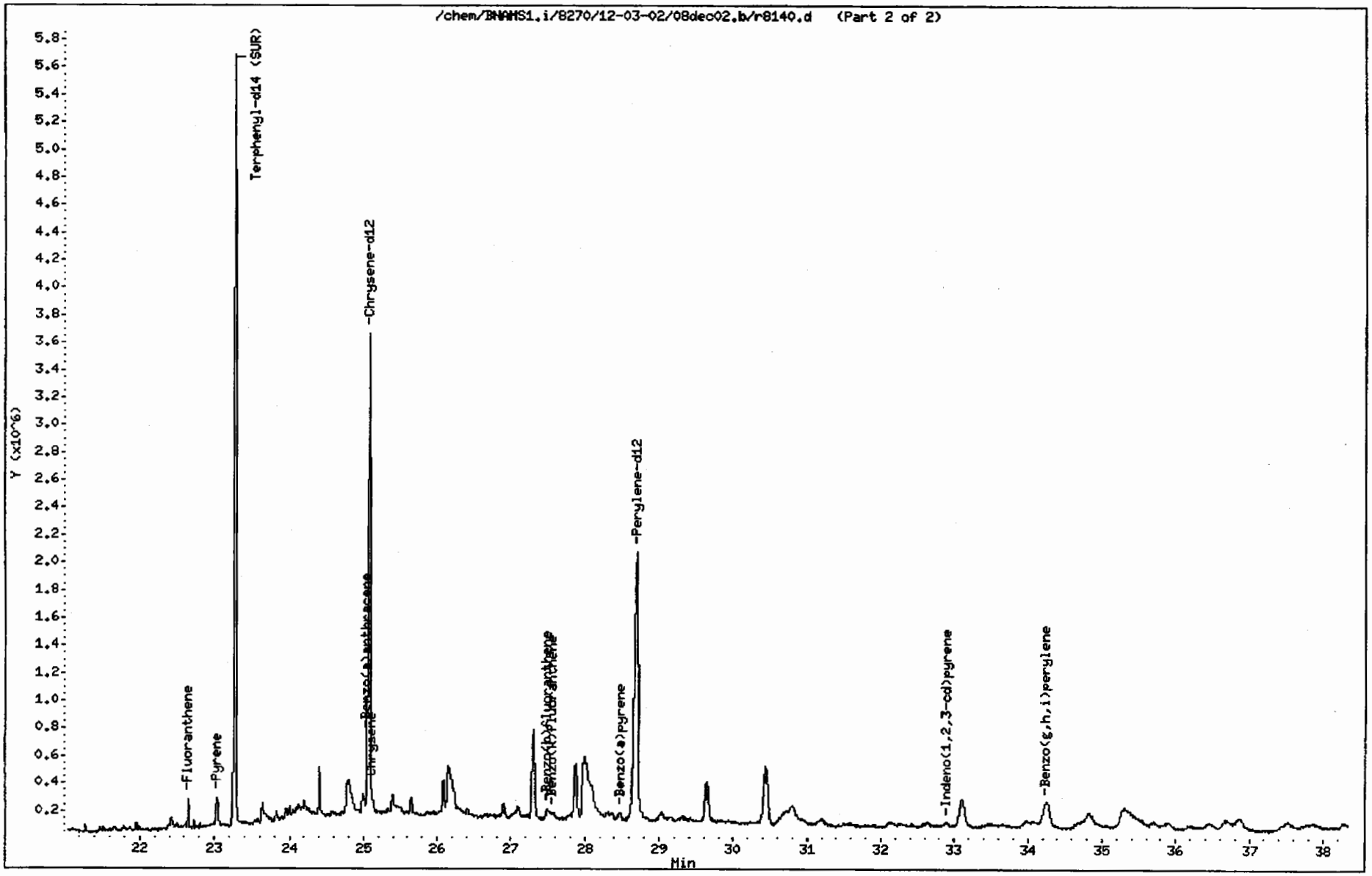
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d
Date : 08-DEC-2002 13:36
Client ID: HA-02-05-0-6
Sample Info: 392322;888577

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



844

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

Client ID: HA-02-05-0-6

Instrument: BNAMS1.i

Sample Info: 392322;888577

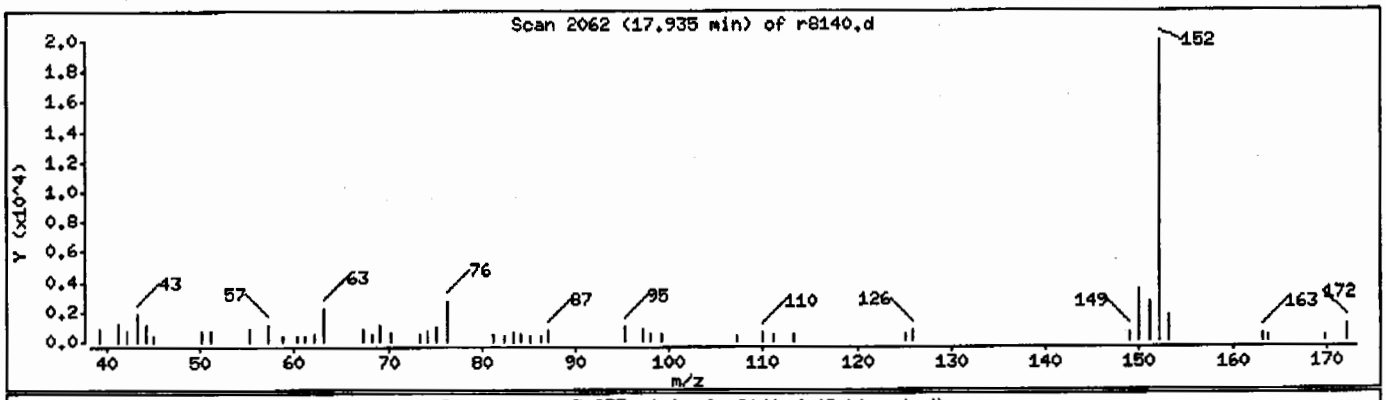
Operator: BNAMS 4

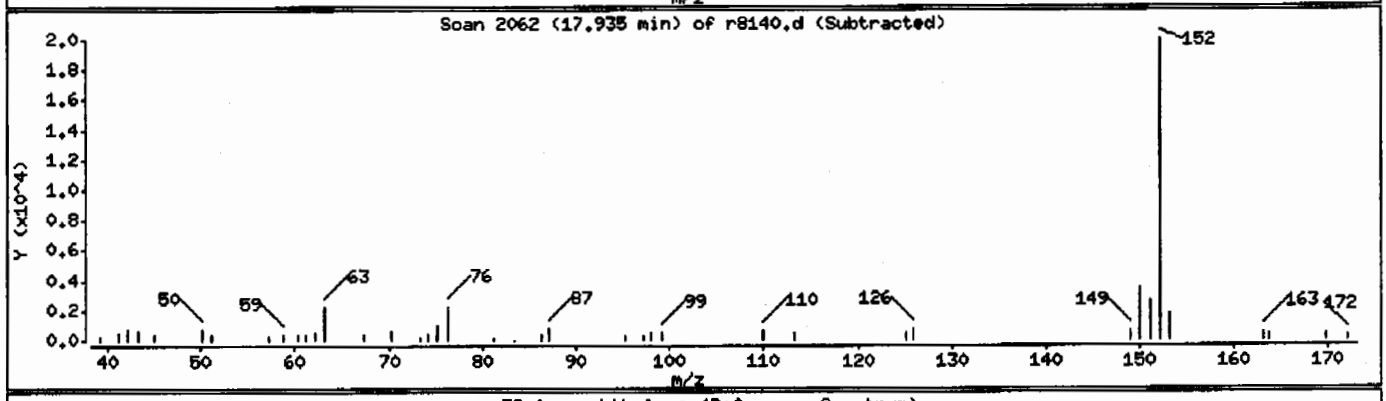
Column phase: DB-5

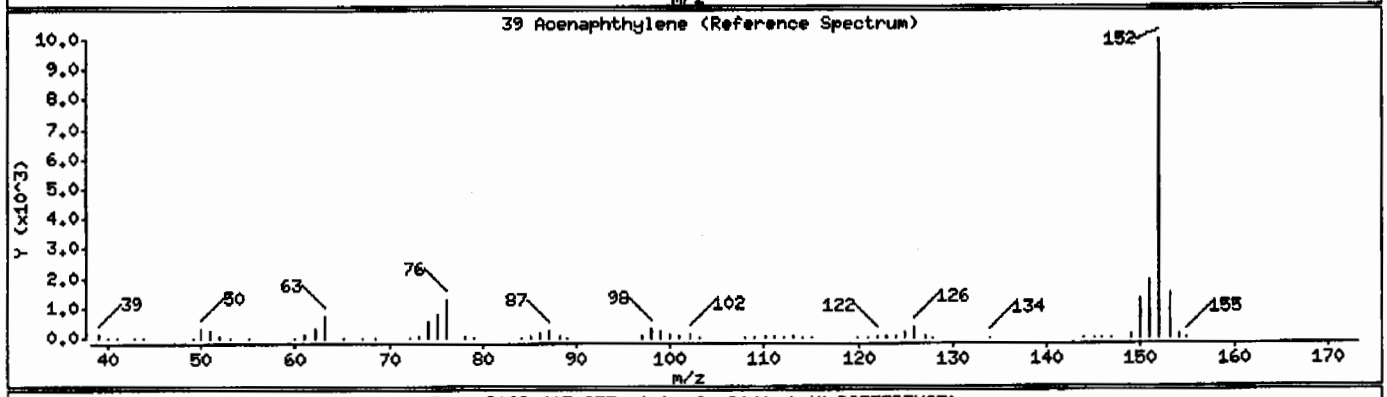
Column diameter: 0.25

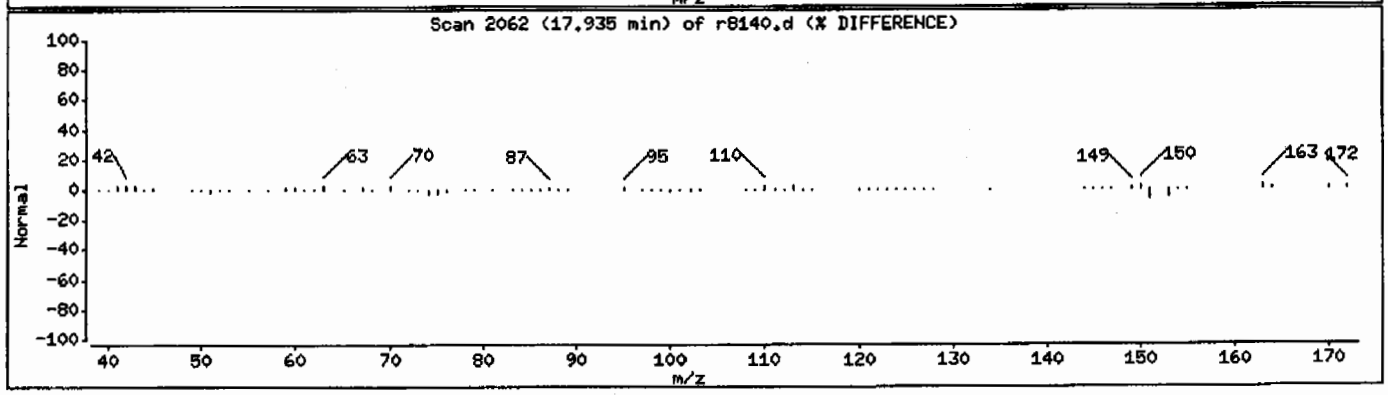
39 Acenaphthylene

Concentration: 27 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

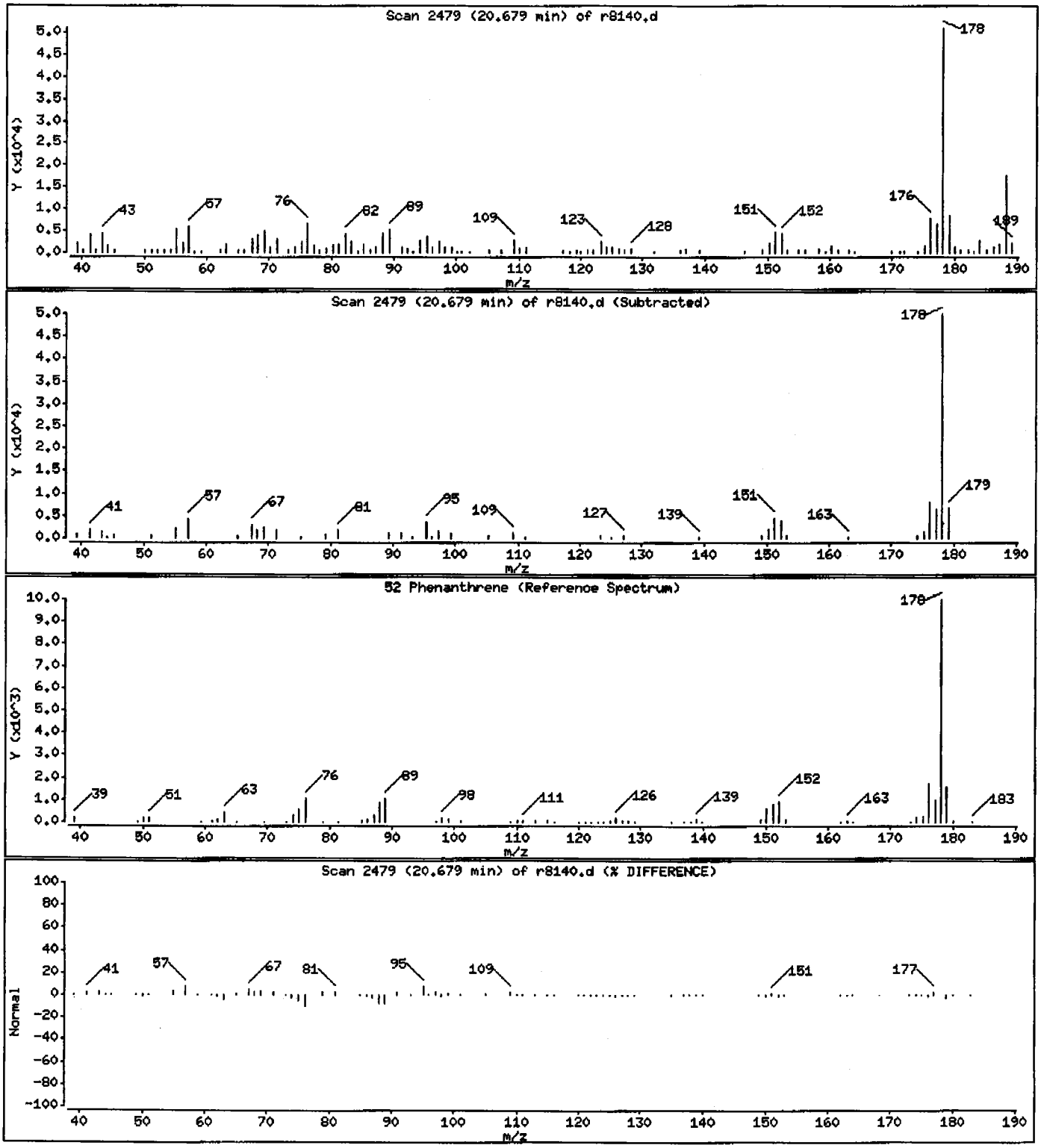
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

52 Phenanthrene Concentration: 57 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

Client ID: HA-02-05-0-6

Instrument: BNAMS1.i

Sample Info: 392322;888577

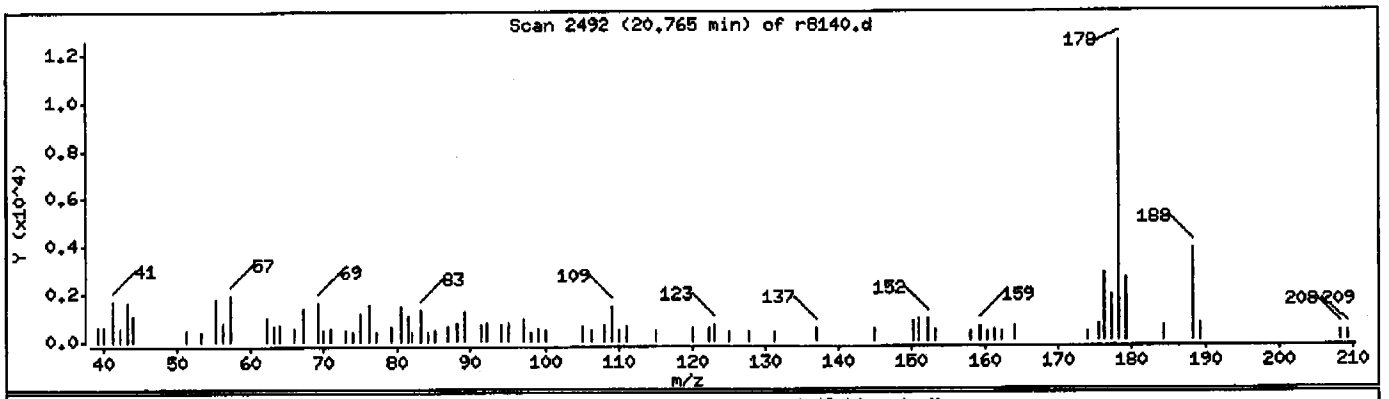
Operator: BNAMS 4

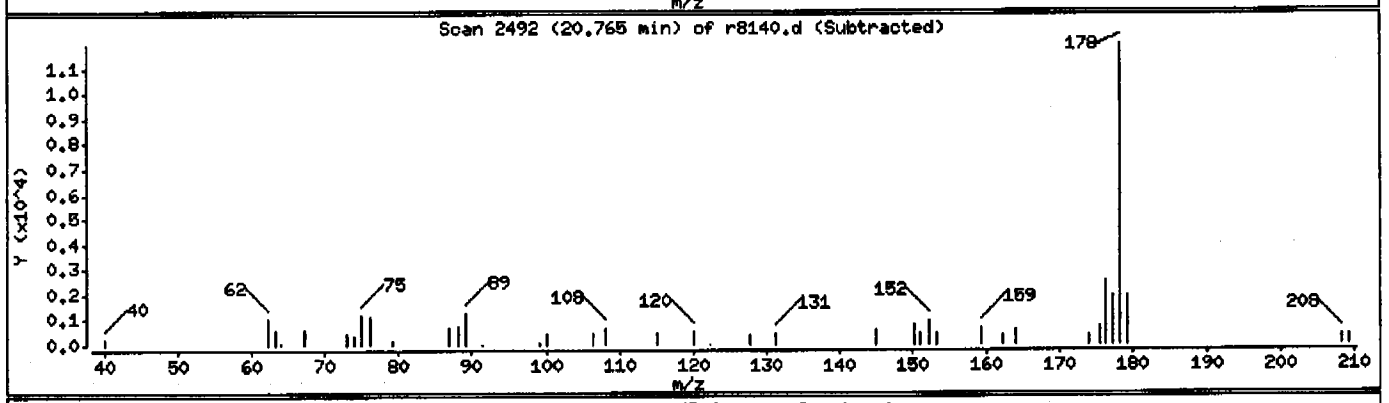
Column phase: DB-5

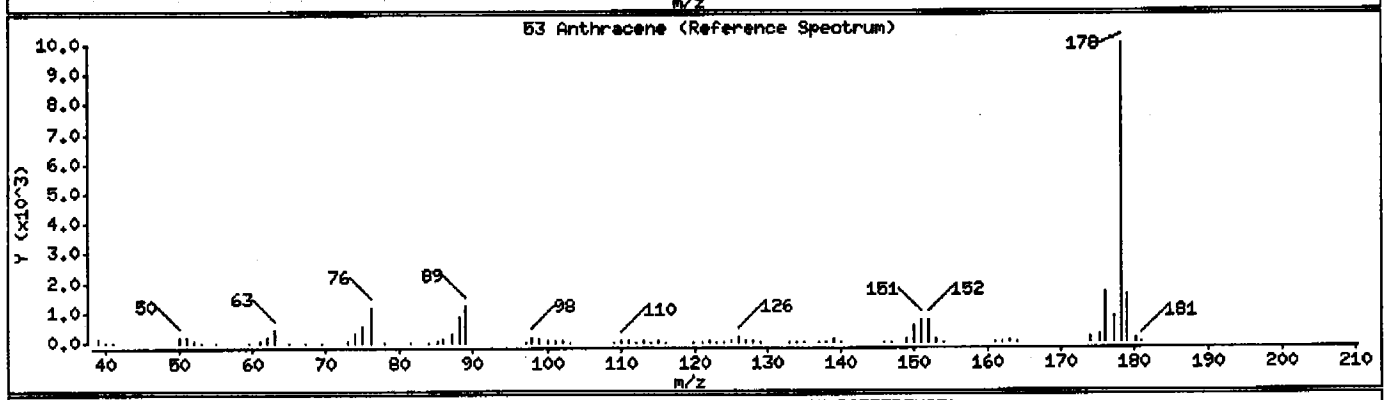
Column diameter: 0.25

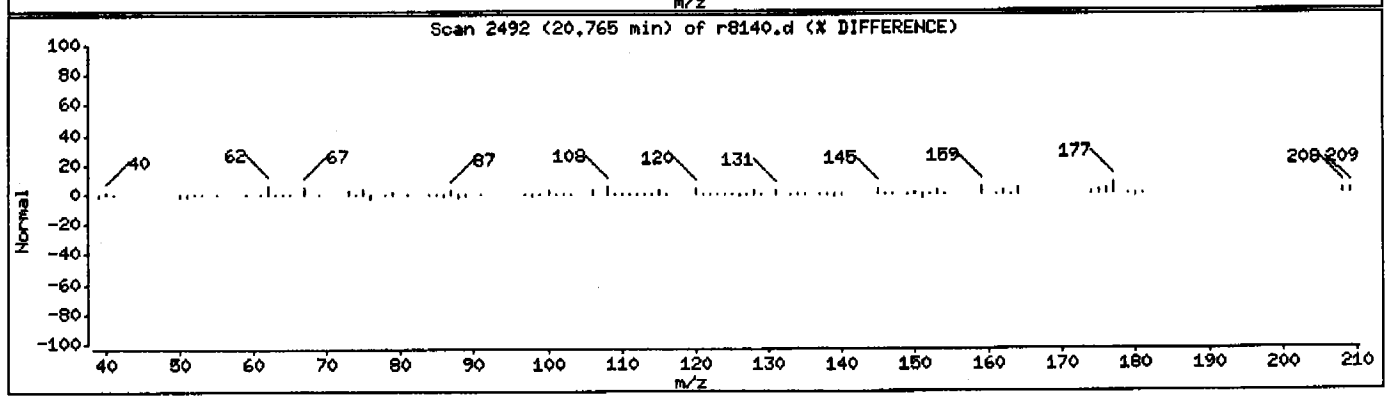
53 Anthracene

Concentration: 17 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

Client ID: HA-02-05-0-6

Instrument: BNAMS1.i

Sample Info: 392322;888577

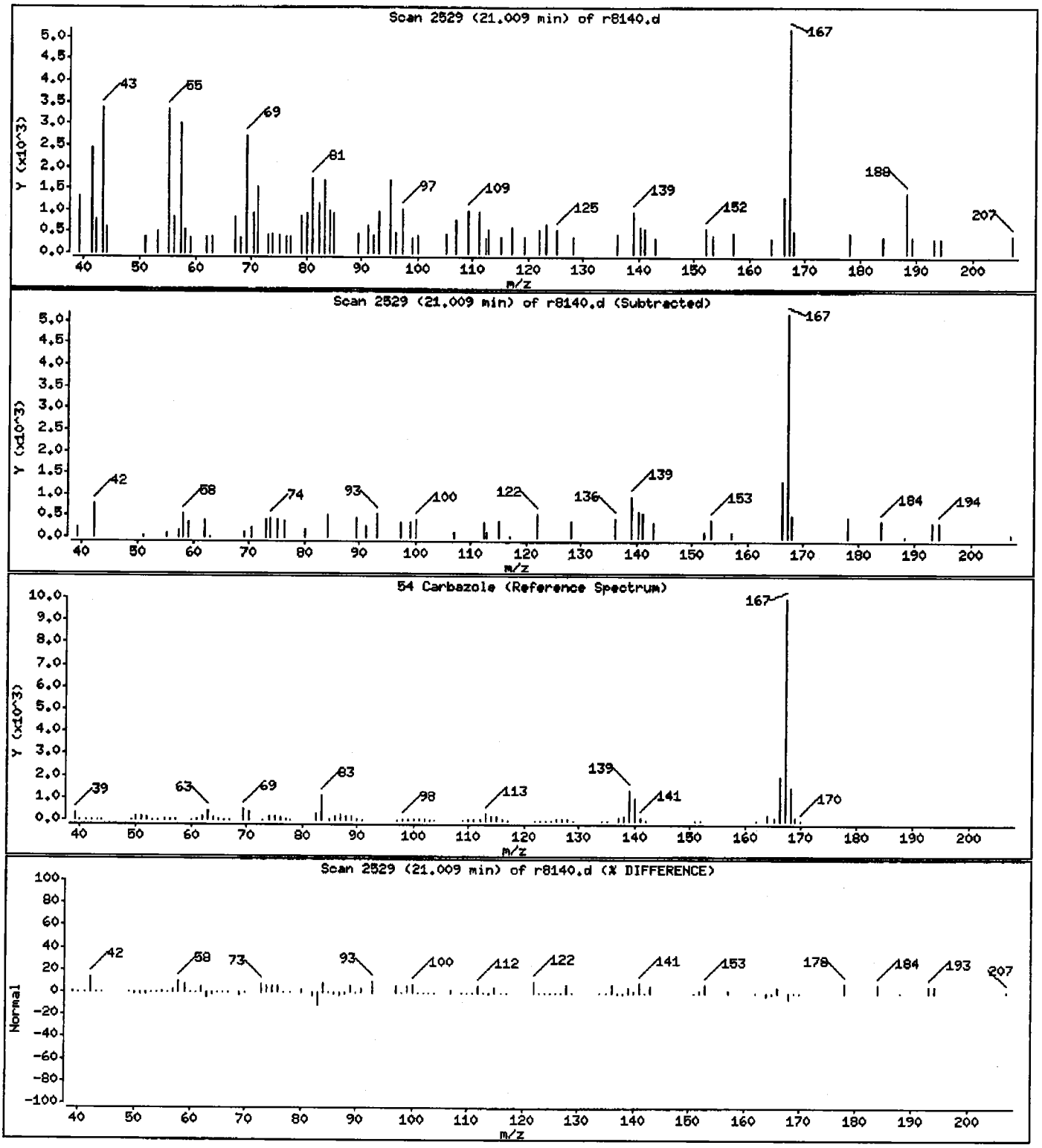
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

54 Carbazole

Concentration: 7.7 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

Client ID: HA-02-05-0-6

Instrument: BNAMS1.i

Sample Info: 392322;888577

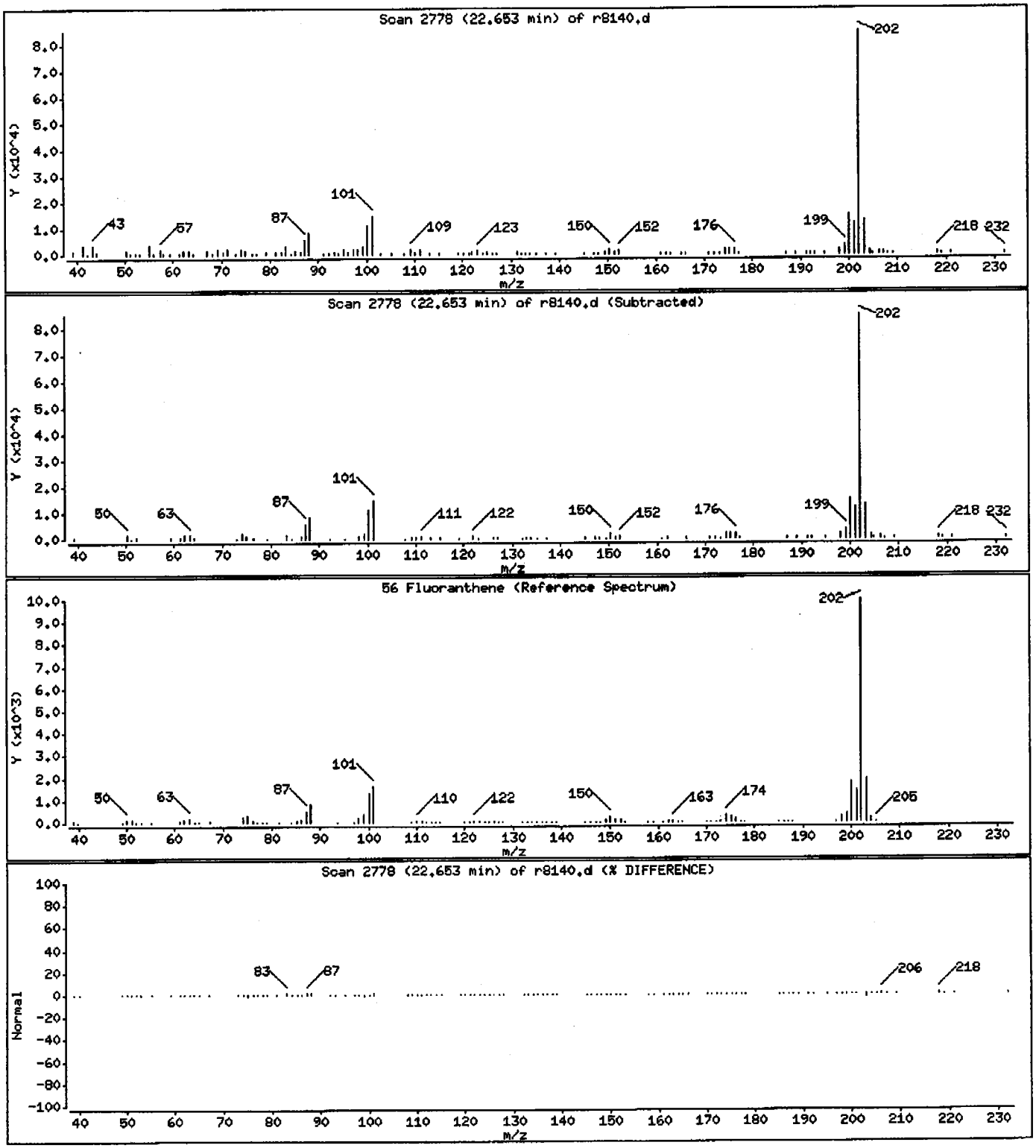
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 97 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

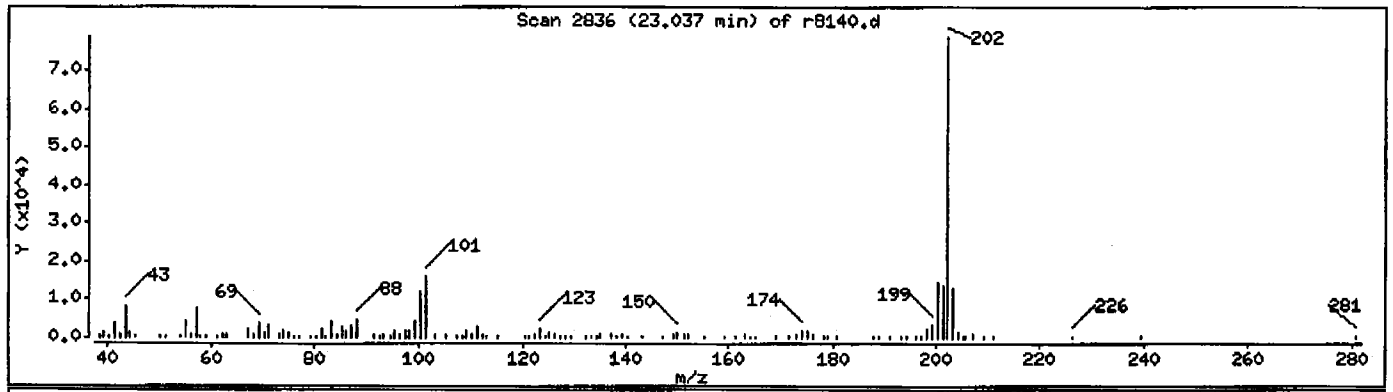
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

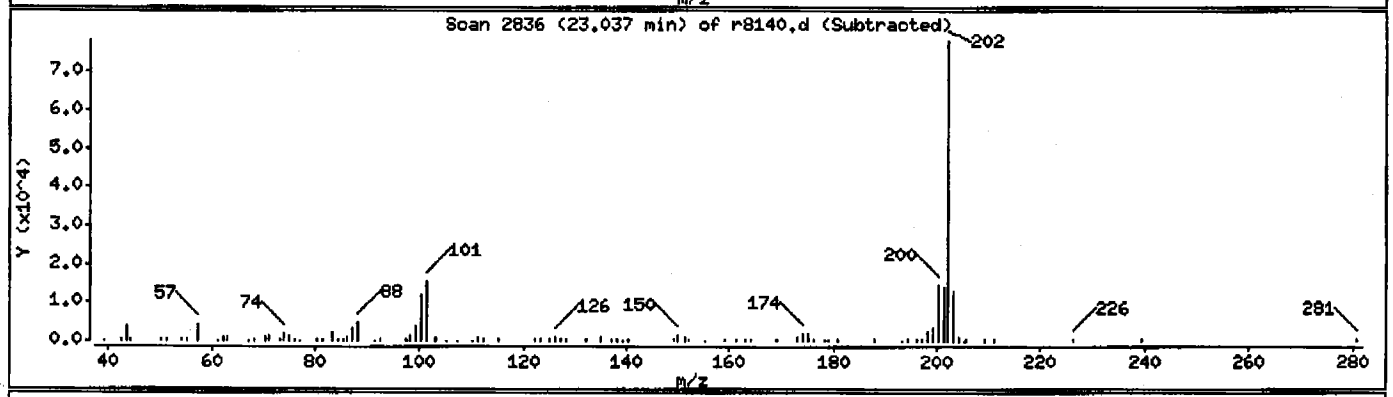
Sample Info: 392322;888577

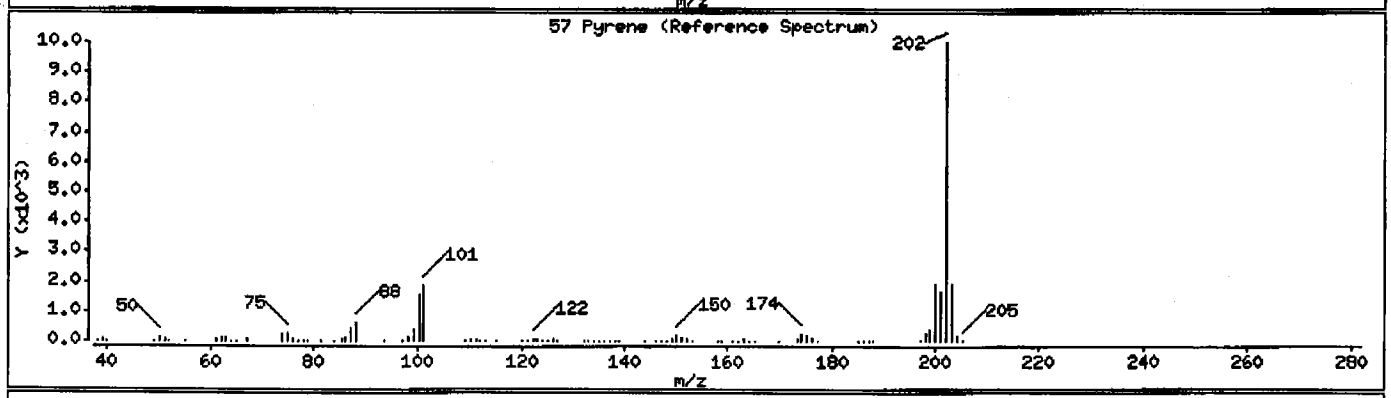
Operator: BNAMS 4

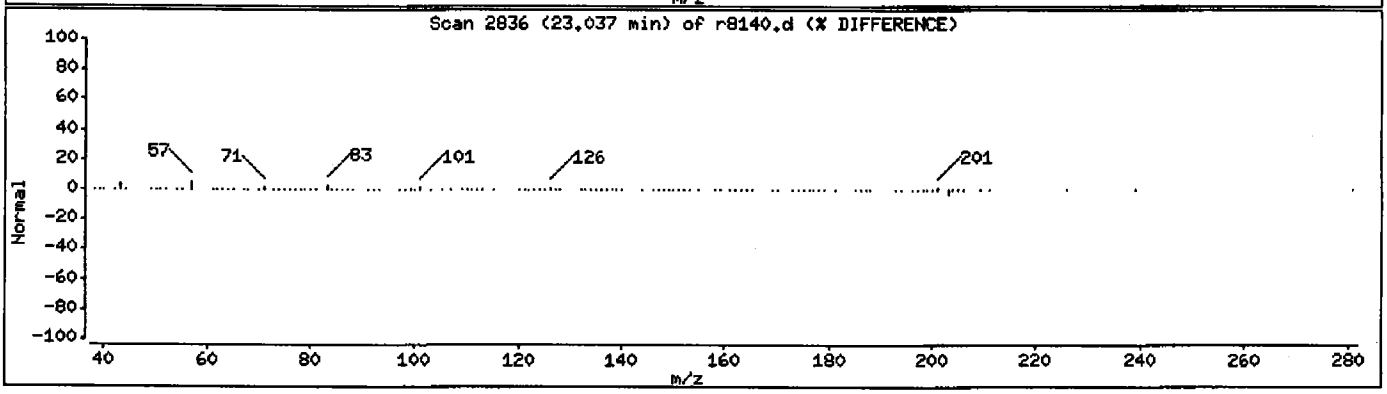
Column phase: DB-5 Column diameter: 0.25

57 Pyrene Concentration: 110 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

Client ID: HA-02-05-0-6

Instrument: BNAMS1.i

Sample Info: 392322;888577

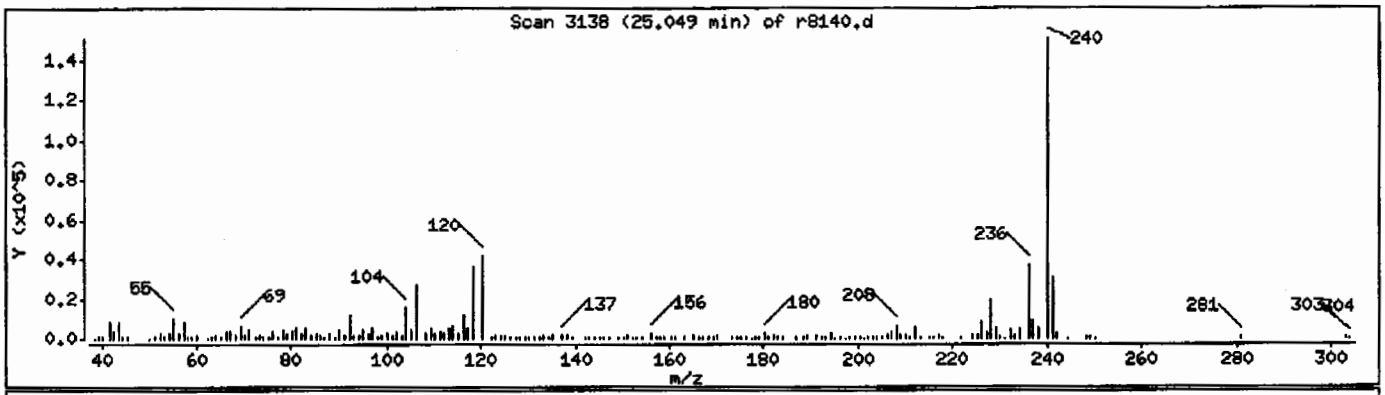
Operator: BNAMS 4

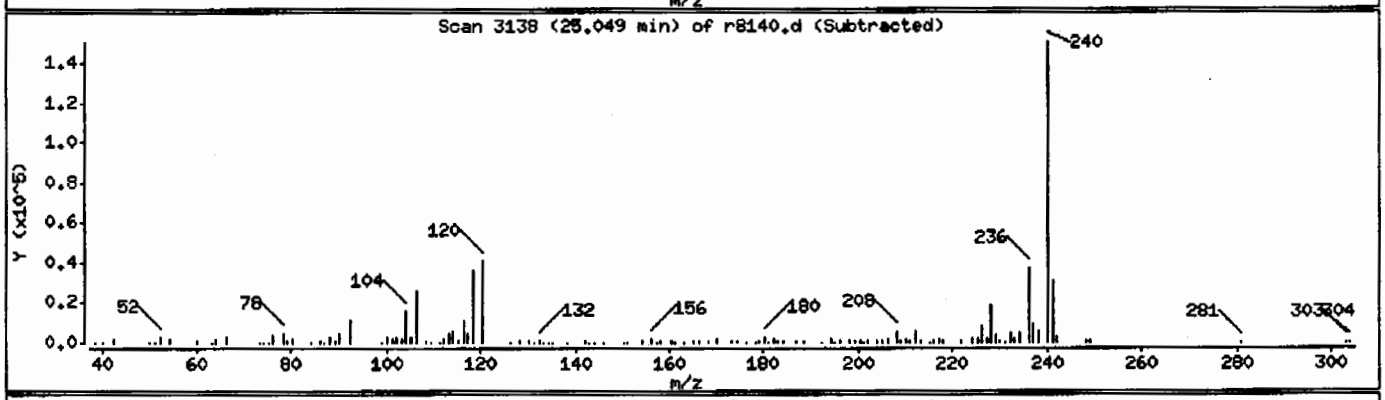
Column phase: DB-5

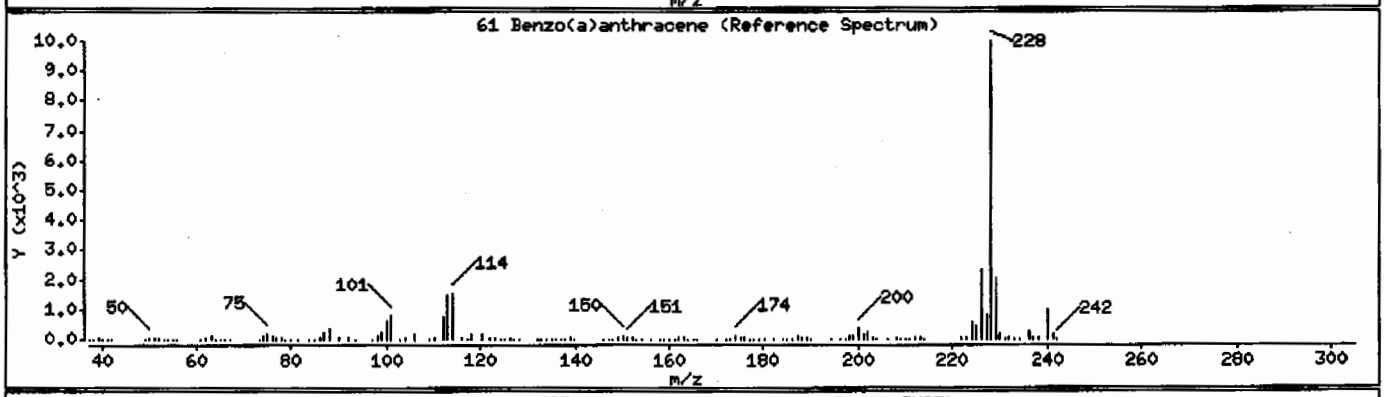
Column diameter: 0.25

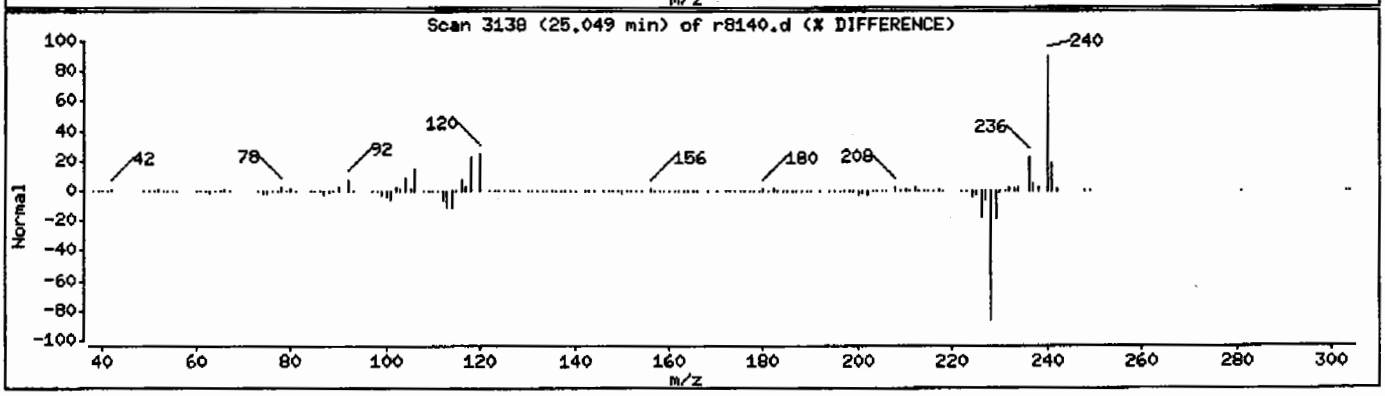
61 Benzo(a)anthracene

Concentration: 47 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

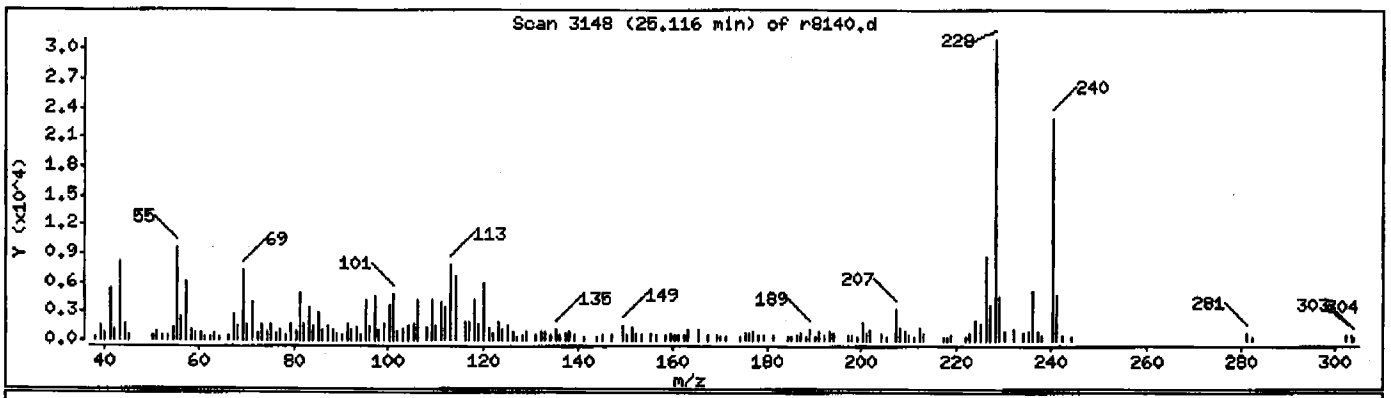
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

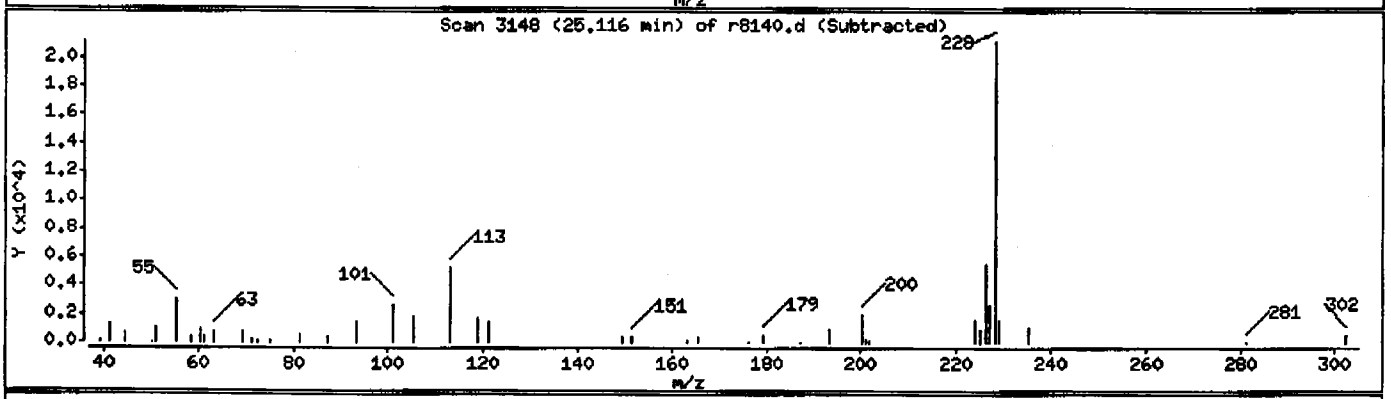
Sample Info: 392322;888577

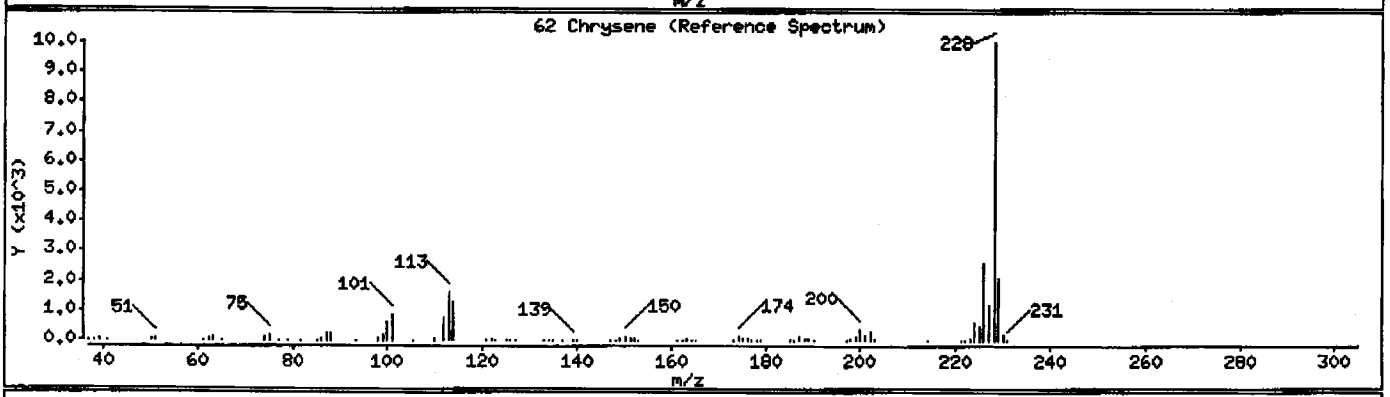
Operator: BNAMS 4

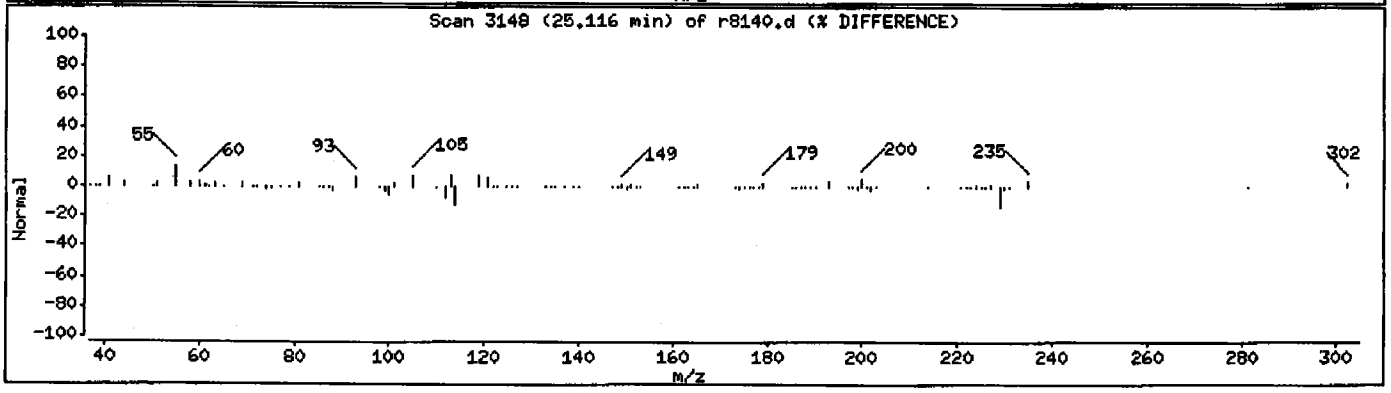
Column phase: DB-5 Column diameter: 0.25

62 Chrysene Concentration: 74 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

Client ID: HA-02-05-0-6

Instrument: BNAMS1.i

Sample Info: 392322;888577

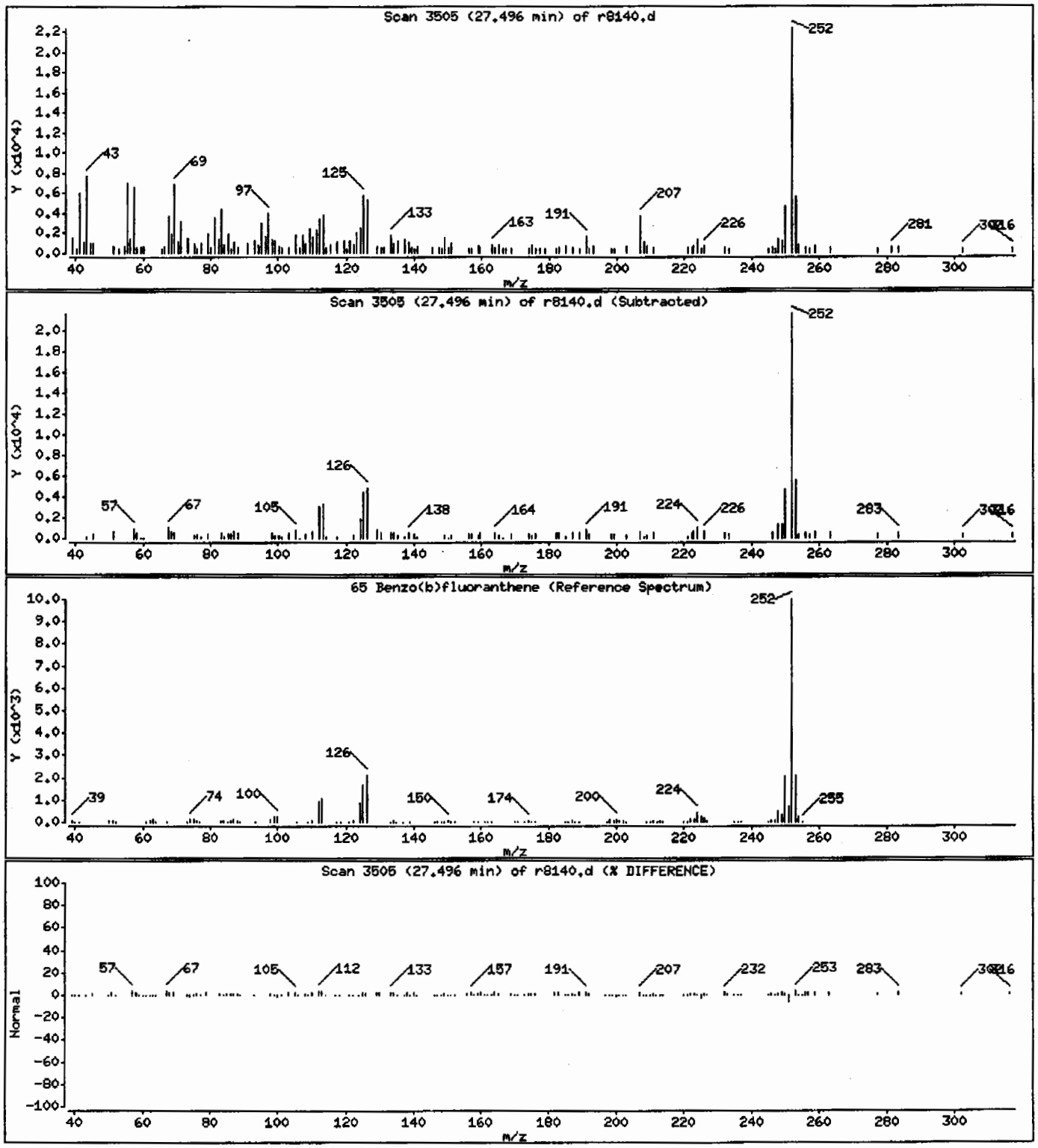
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 79 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

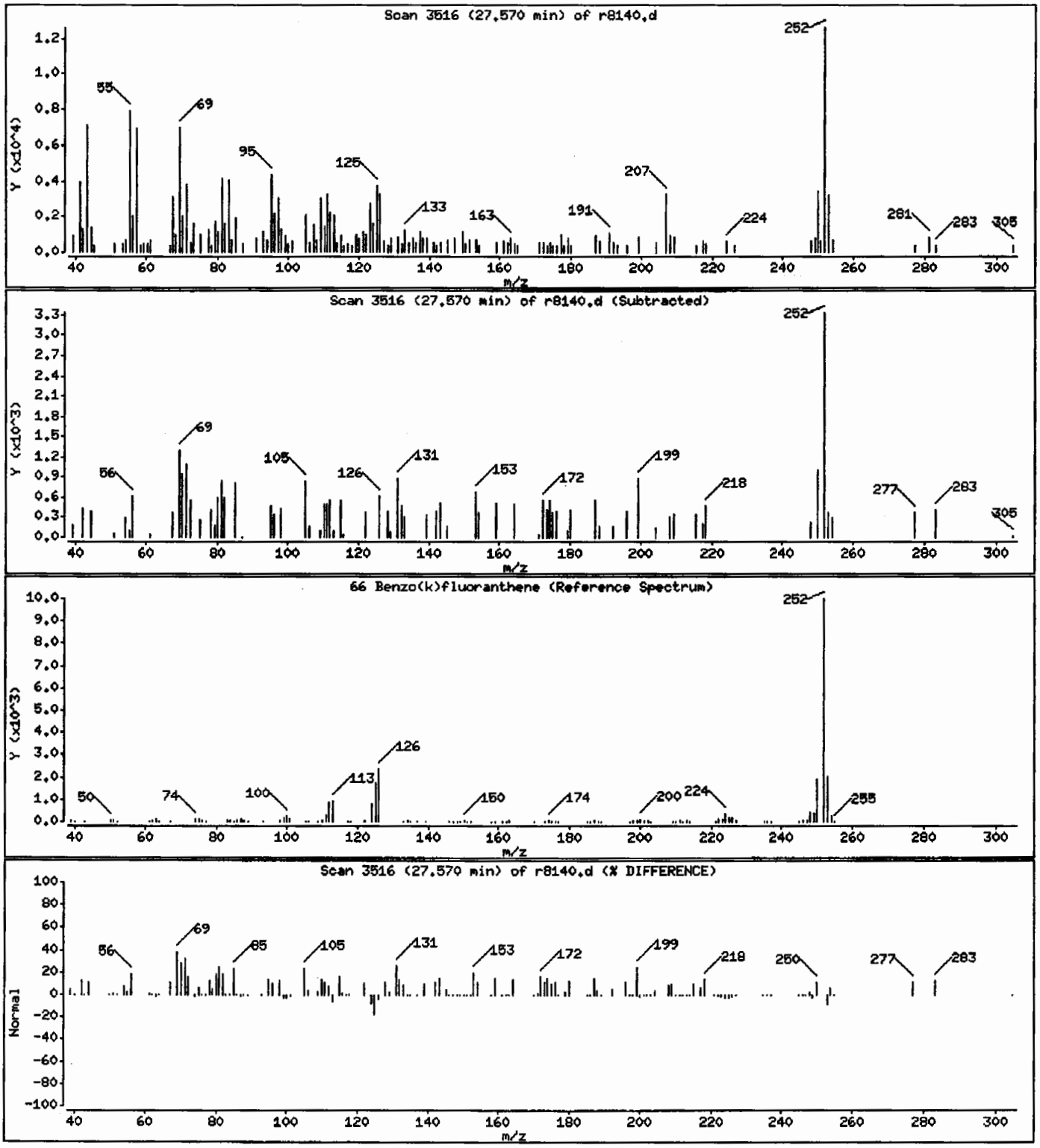
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

66 Benzo(k)fluoranthene Concentration: 36 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

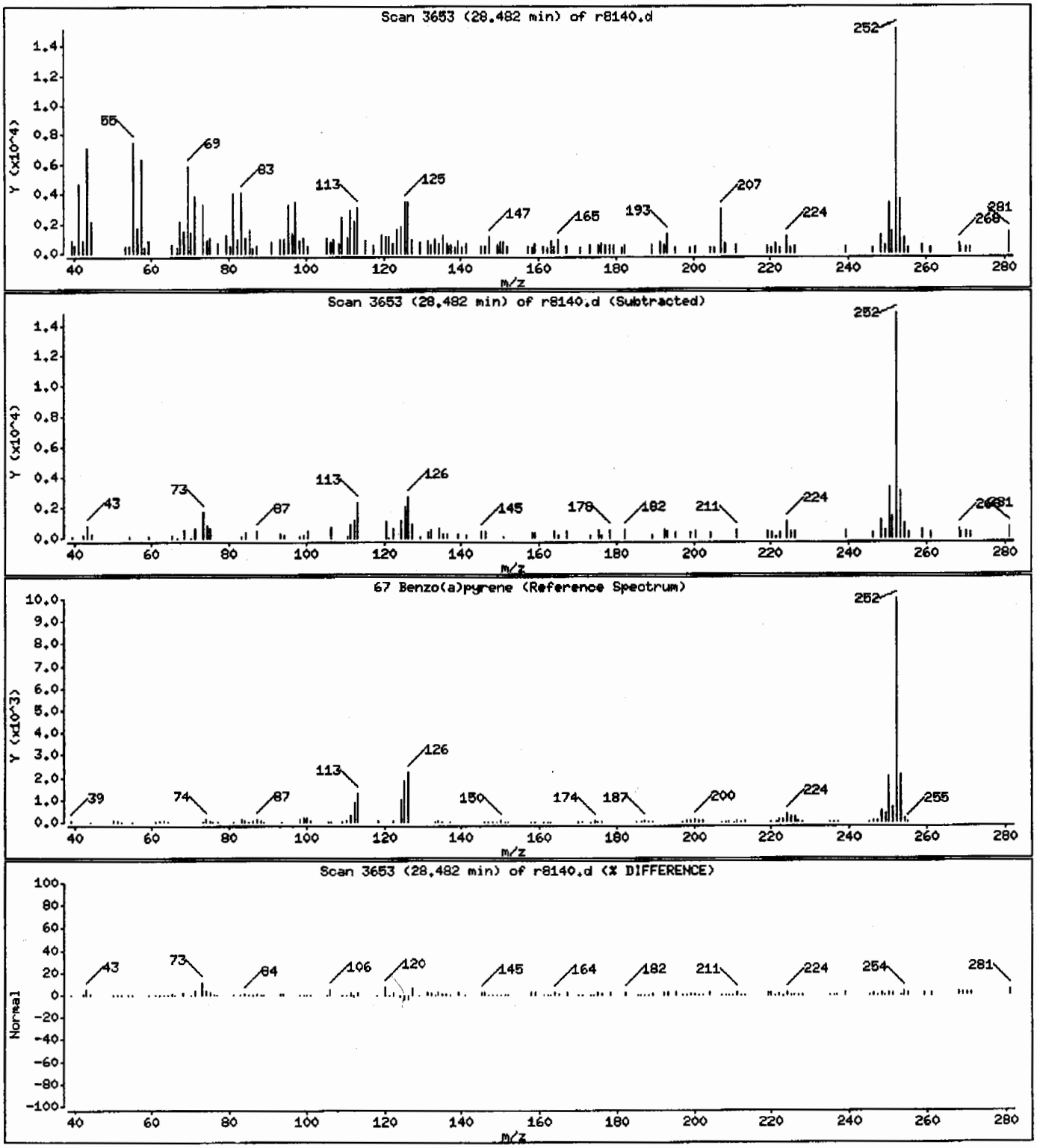
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

67 Benzo(a)pyrene Concentration: 60 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

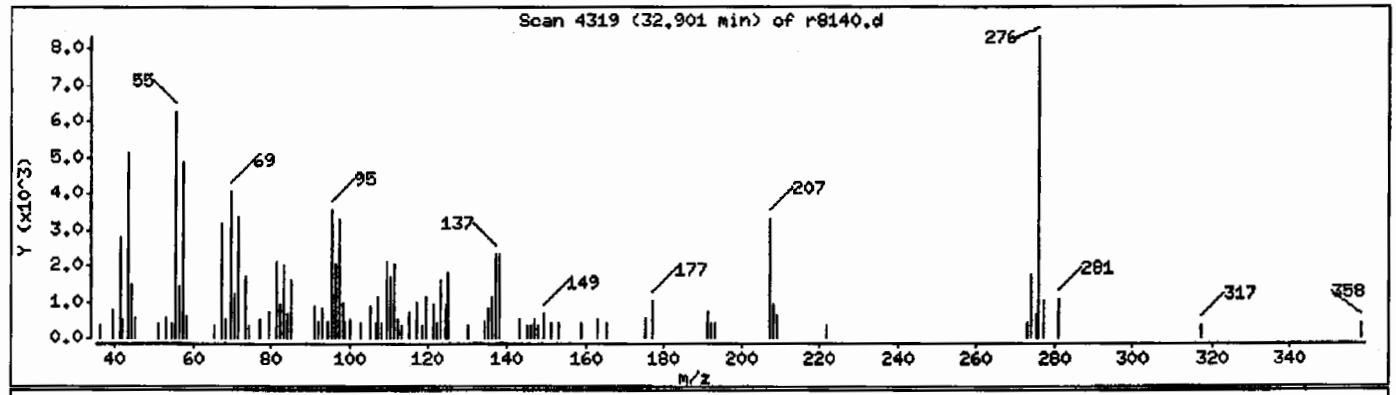
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

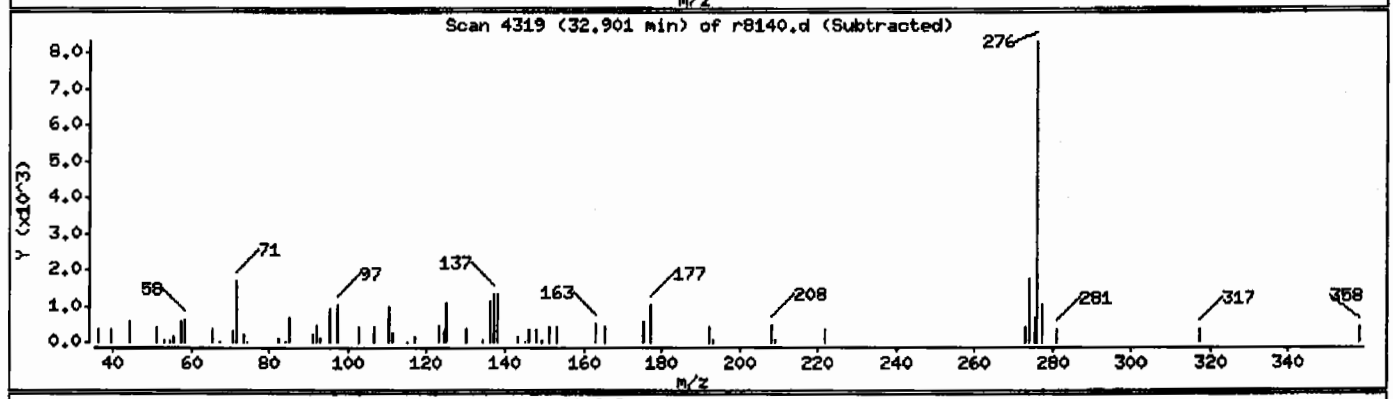
Sample Info: 392322;888577

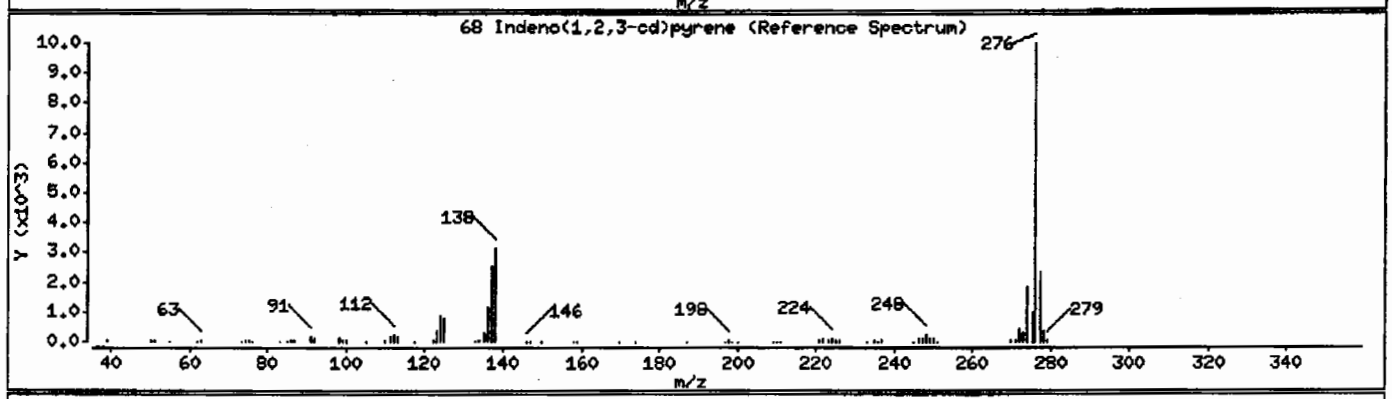
Operator: BNAMS 4

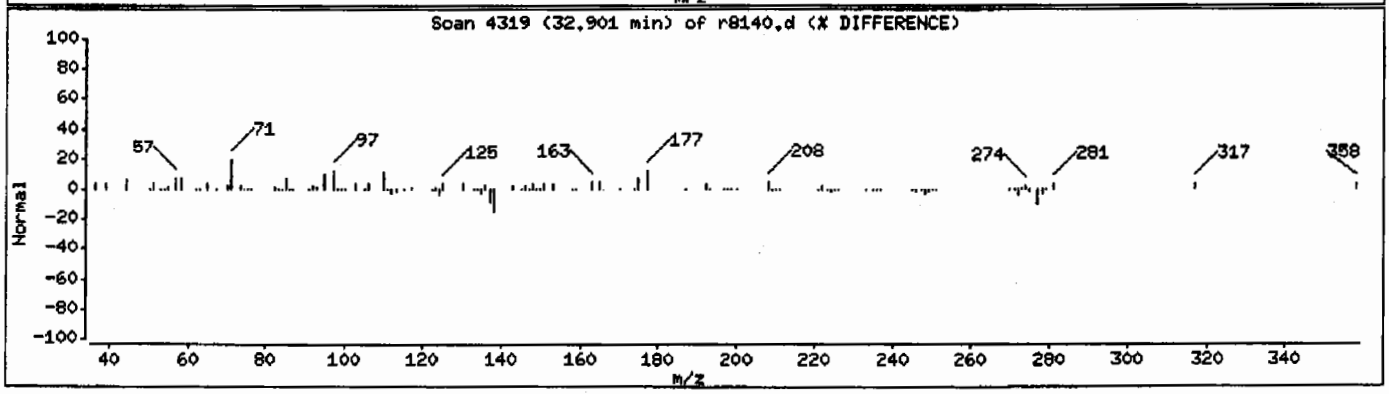
Column phase: DB-5 Column diameter: 0.25

68 Indeno(1,2,3-cd)pyrene Concentration: 44 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

Client ID: HA-02-05-0-6

Instrument: BNAMS1.i

Sample Info: 392322;888577

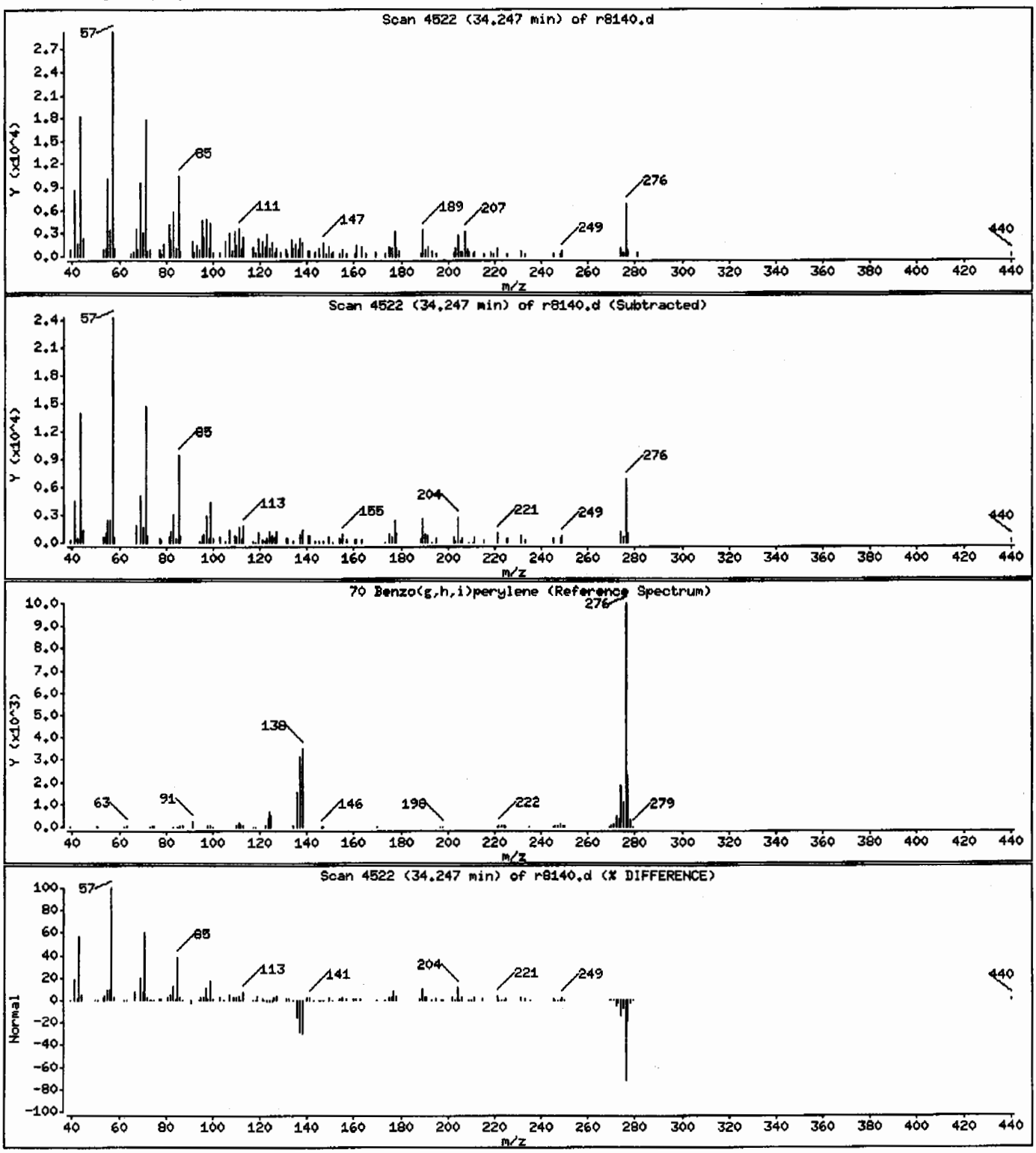
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 42 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

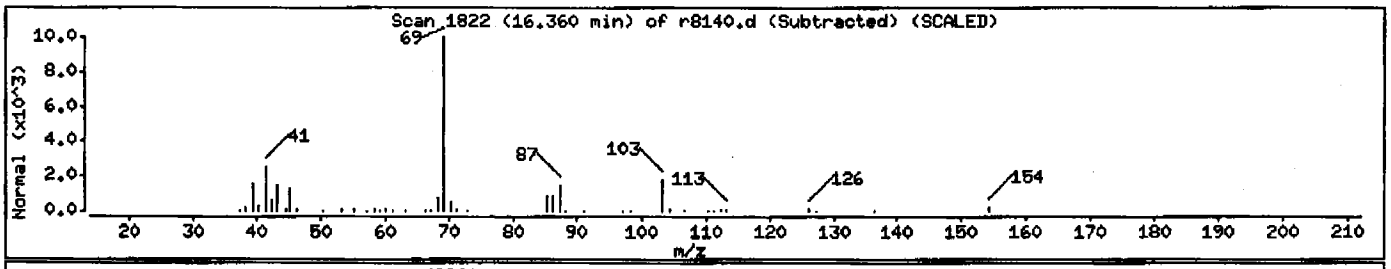
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

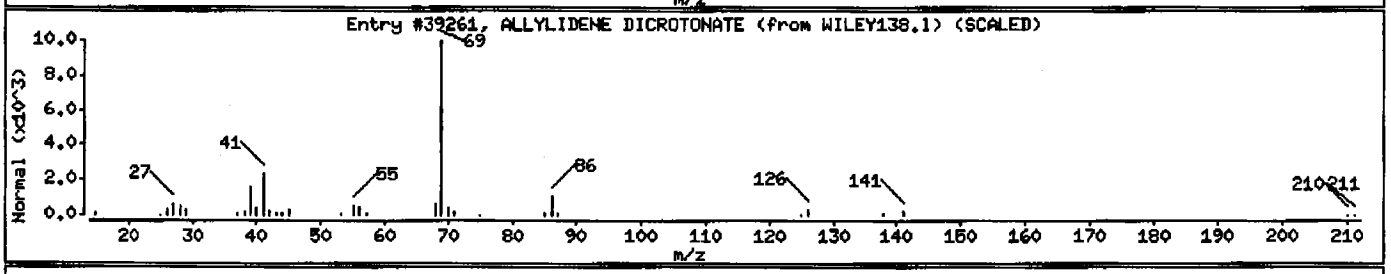
Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
ALLYLIDENE DICROTONATE	55030-70-1	WILEY138.1	39261	36	C11H14O4	210





Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

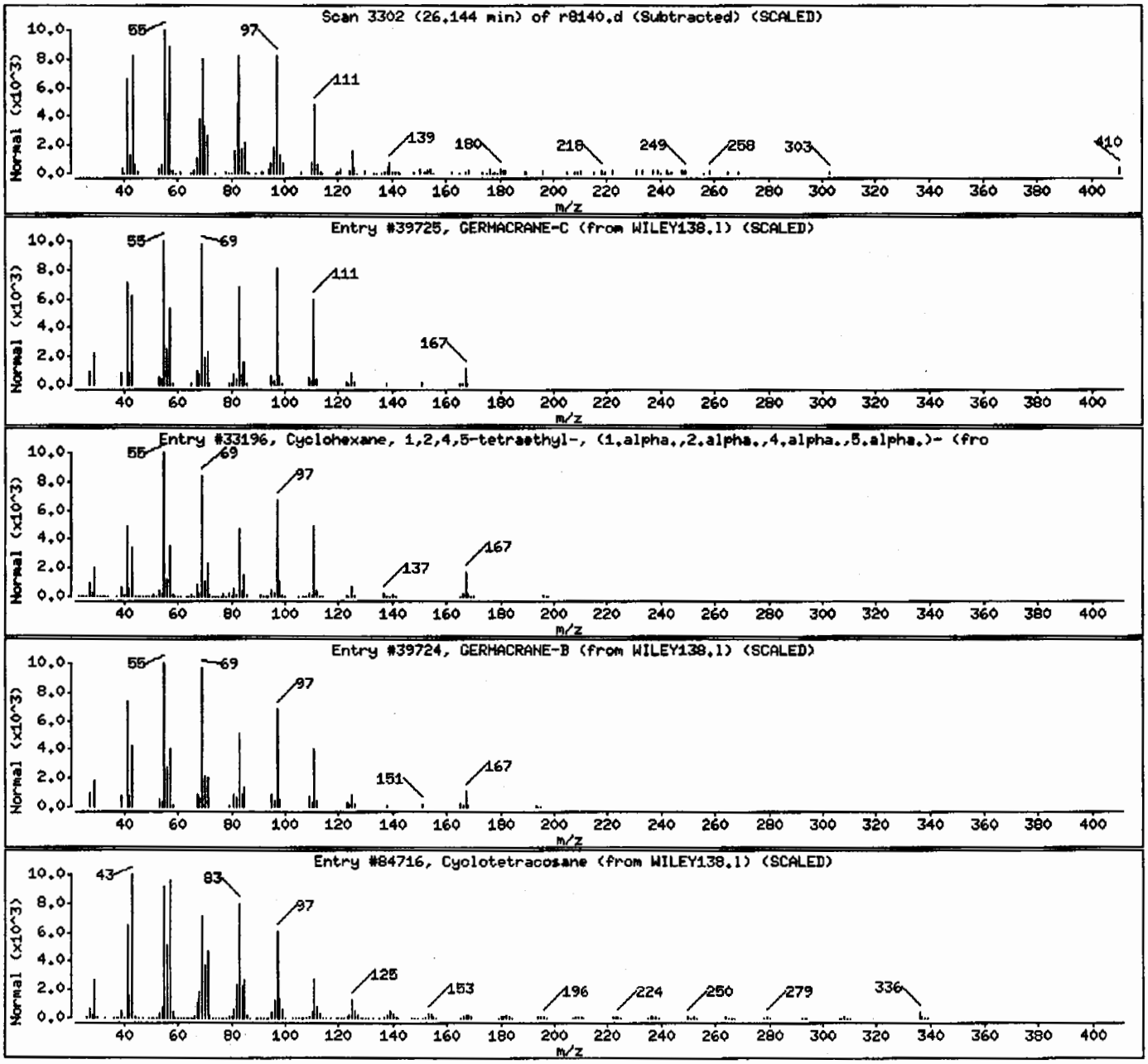
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
GERMACRANE-C	0-00-0	WILEY138.1	39725	53	C15H30	210
Cyclohexane, 1,2,4,5-tetraethyl-, (1.alp	61142-24-3	WILEY138.1	33196	49	C14H28	196
GERMACRANE-B	0-00-0	WILEY138.1	39724	49	C15H30	210
Cyclotetracosane	297-03-0	WILEY138.1	84716	43	C24H48	336



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

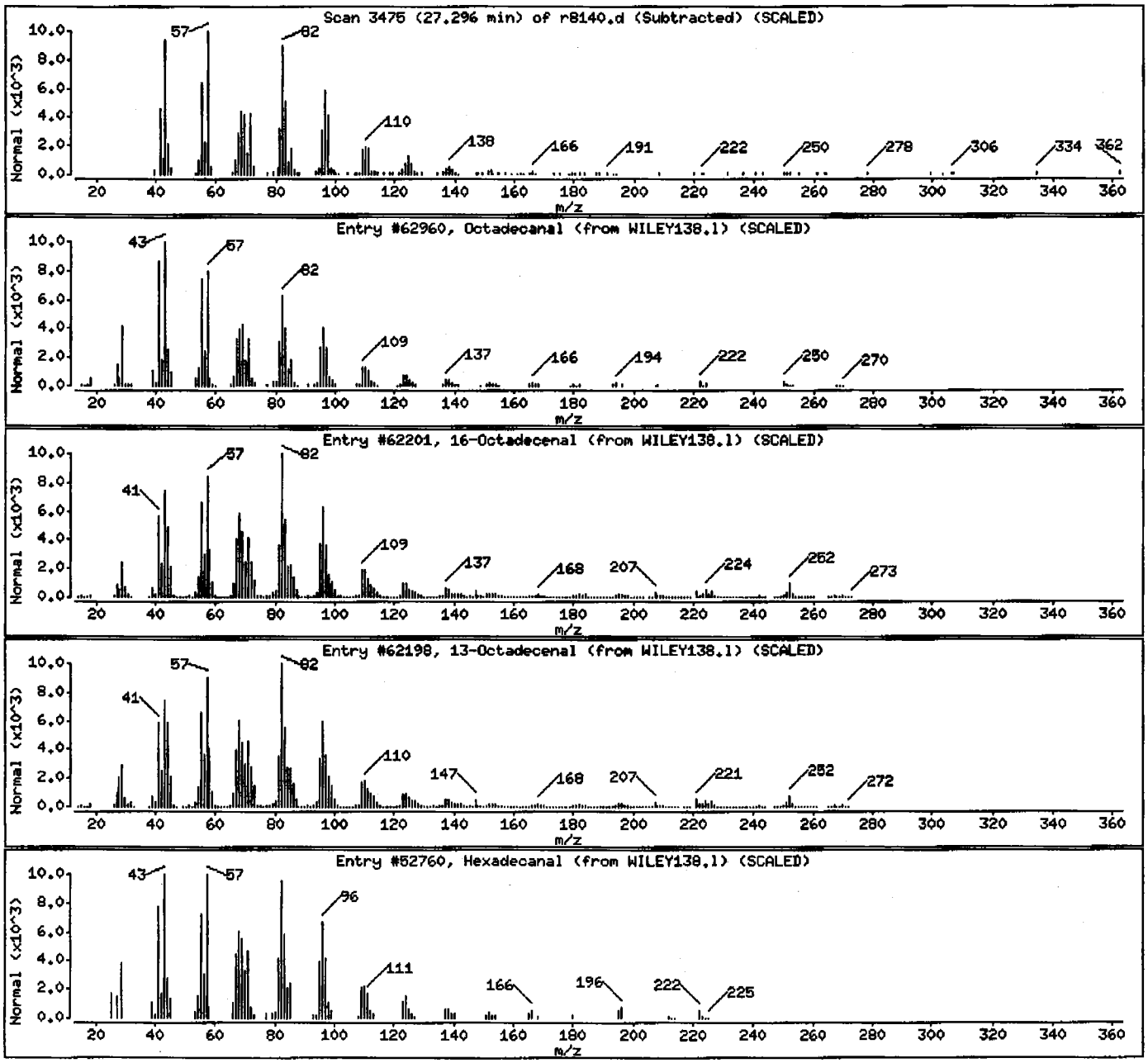
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octadecanal	638-66-4	WILEY138.1	62960	91	C18H36O	268
16-Octadecenal	56554-87-1	WILEY138.1	62201	86	C18H34O	266
13-Octadecenal	56554-90-6	WILEY138.1	62198	86	C18H34O	266
Hexadecanal	629-80-1	WILEY138.1	52760	86	C16H32O	240



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

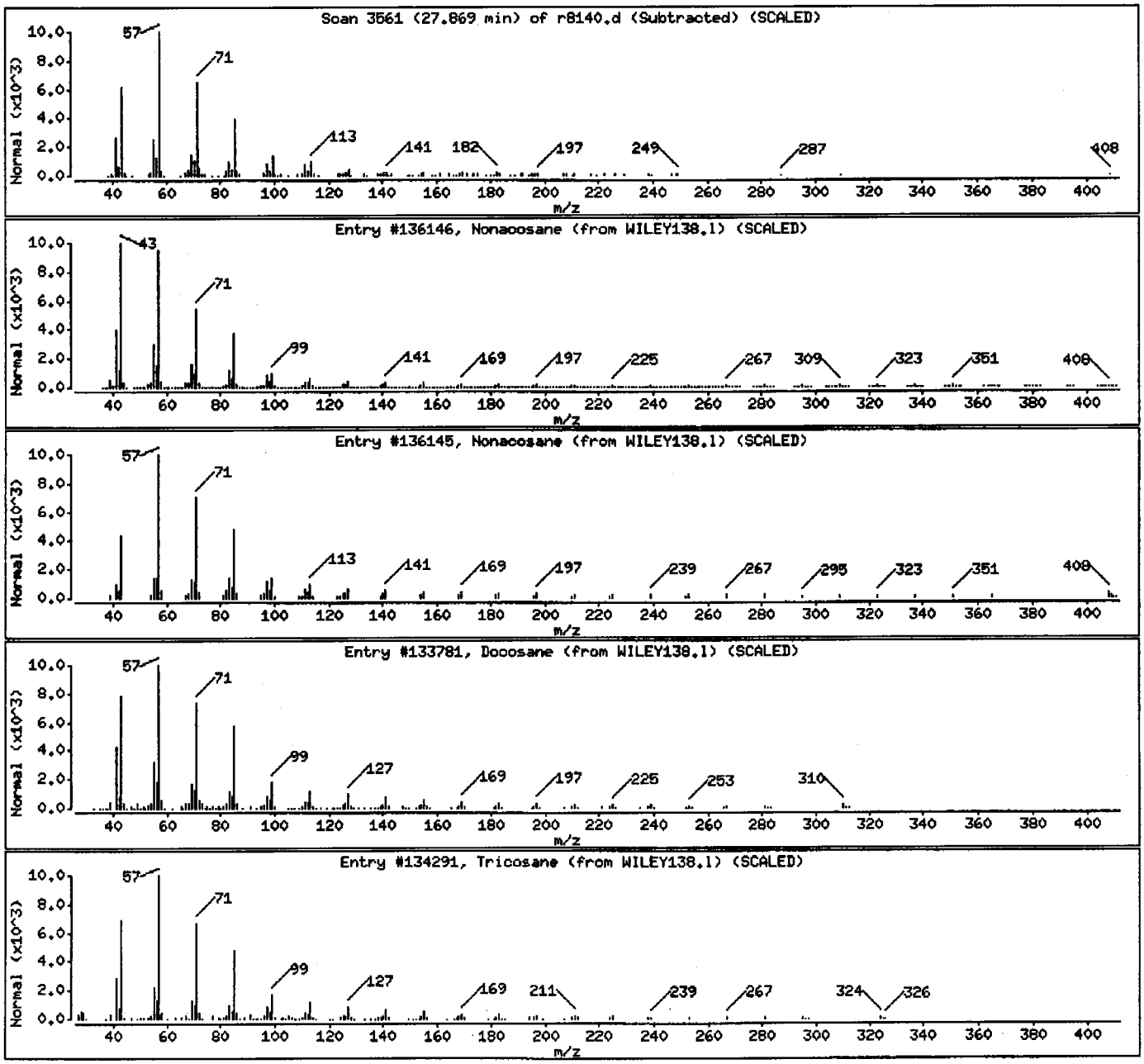
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Nonacosane	630-03-5	WILEY138.1	136146	93	C29H60	408
Nonacosane	630-03-5	WILEY138.1	136145	91	C29H60	408
Docosane	629-97-0	WILEY138.1	133781	90	C22H46	310
Tricosane	638-67-5	WILEY138.1	134291	86	C23H48	324



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

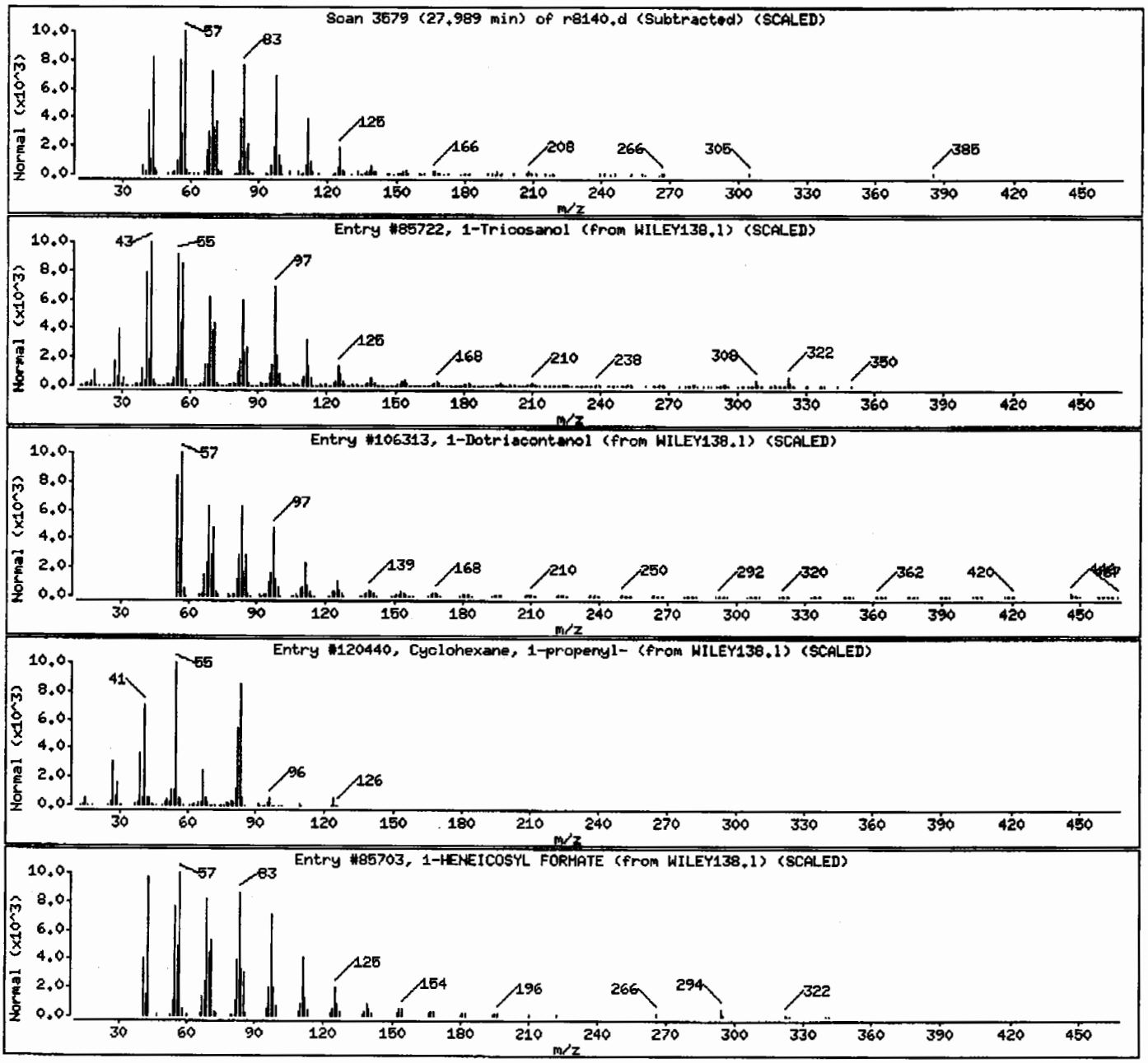
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Tricosanol	3133-01-5	WILEY138.1	85722	43	C23H480	340
1-Dotriacontanol	6624-79-9	WILEY138.1	106313	43	C32H660	467
Cyclohexane, 1-propenyl-	5364-83-0	WILEY138.1	120440	41	C9H16	124
1-HENEICOSYL FORMATE	77899-03-7	WILEY138.1	85703	38	C22H4402	340



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

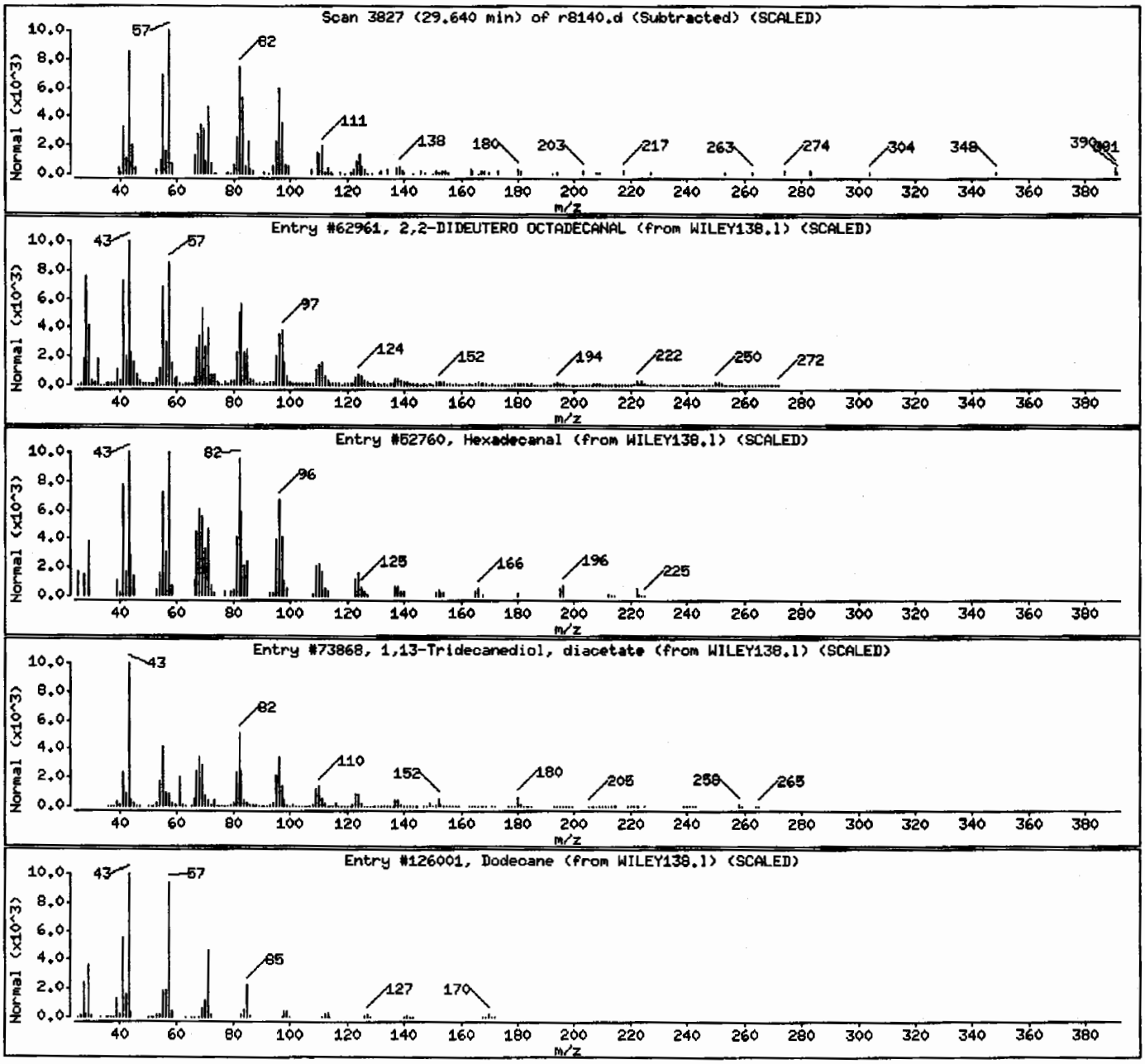
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,2-DIDEUTERO OCTADECANAL	56555-07-8	WILEY138.1	62961	64	C18H34D20	268
Hexadecanal	629-80-1	WILEY138.1	52760	53	C16H320	240
1,13-Tridecanediol, diacetate	42236-70-4	WILEY138.1	73868	27	C17H3204	300
Dodecane	112-40-3	WILEY138.1	126001	25	C12H26	170



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

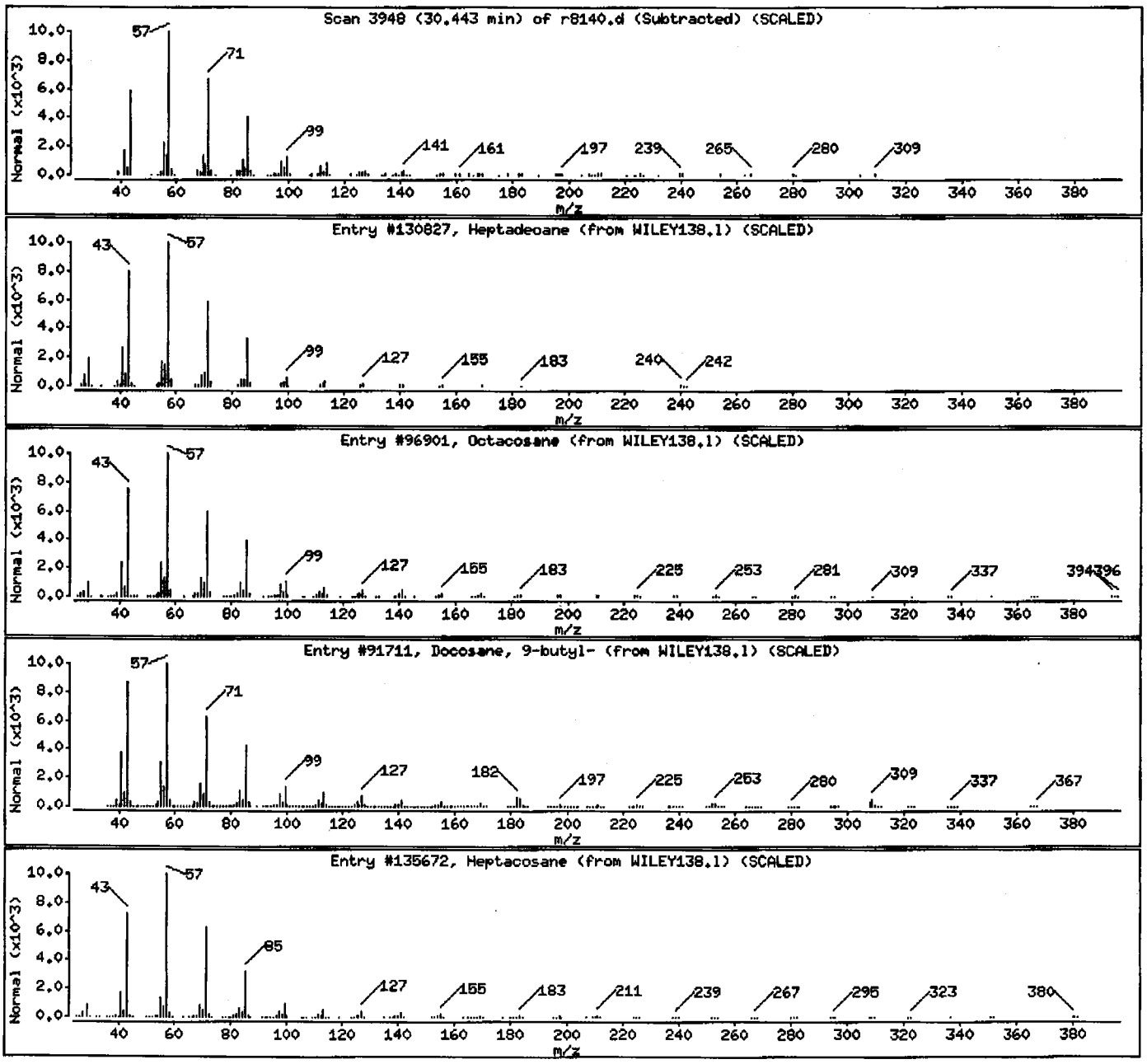
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heptadecane	629-78-7	WILEY138.1	130827	90	C17H36	240
Octacosane	630-02-4	WILEY138.1	96901	90	C28H58	394
Docosane, 9-butyl-	55282-14-9	WILEY138.1	91711	90	C26H54	366
Heptacosane	593-49-7	WILEY138.1	135672	90	C27H56	380



Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8140.d

Date : 08-DEC-2002 13:36

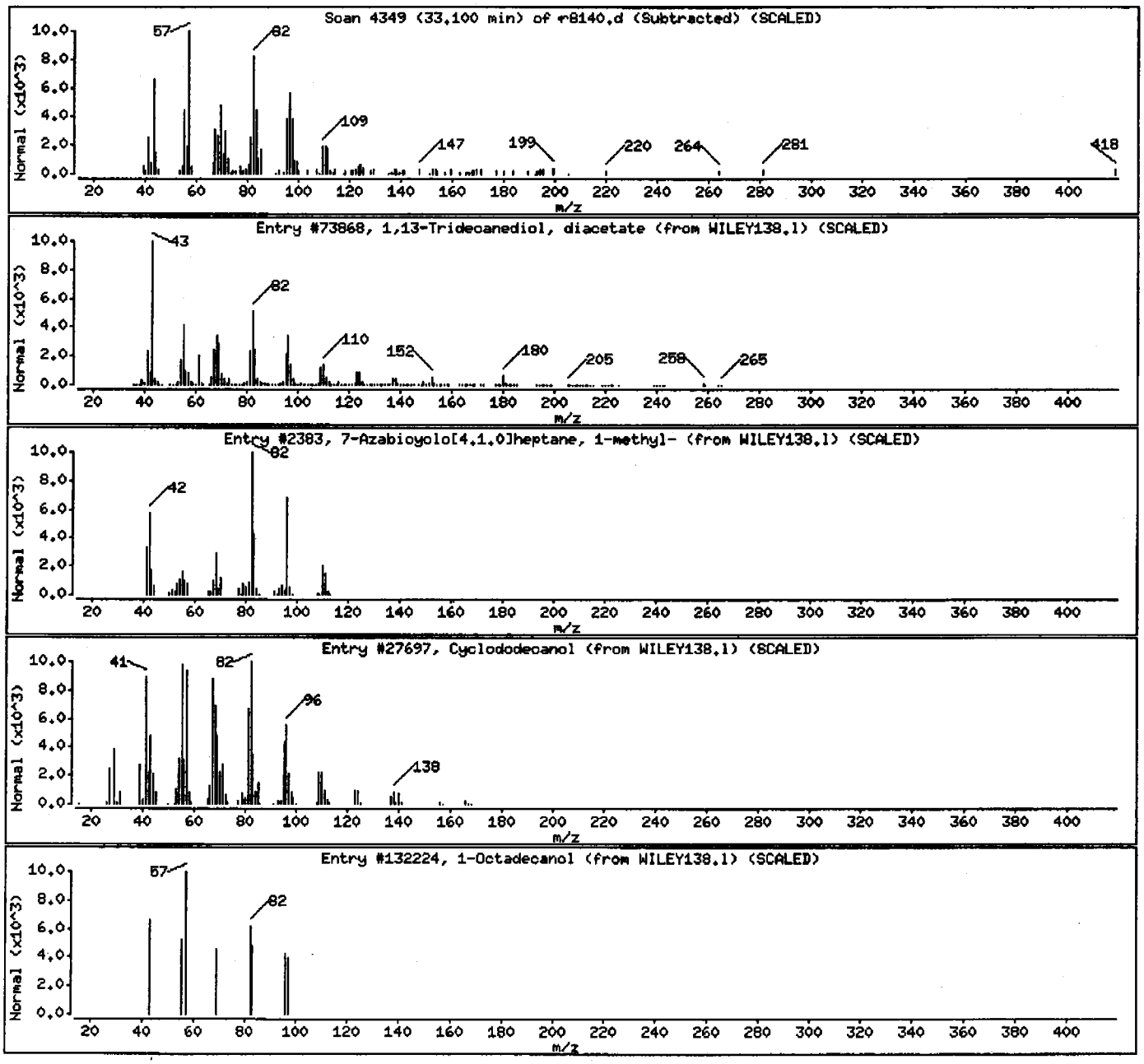
Client ID: HA-02-05-0-6 Instrument: BNAMS1.i

Sample Info: 392322;888577

Operator: BNAMS 4

Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,13-Tridecanediol, diacetate	42236-70-4	WILEY138.1	73868	78	C17H3204	300
7-Azabicyclo[4.1.0]heptane, 1-methyl-	25022-25-7	WILEY138.1	2383	76	C7H13N	111
Cyclododecanol	1724-39-6	WILEY138.1	27697	72	C12H240	184
1-Octadecanol	112-92-5	WILEY138.1	132224	64	C18H380	270



Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8252.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8252.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	29 J	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	13 J	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	21 J	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	60 J	380
Dibenzofuran	49 J	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	90 J	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	1000	380
Anthracene	210 J	380

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8252.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	160 J	380
Di-n-butylphthalate	ND	380
Fluoranthene	1100	380
Pyrene	1000	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	380	38
Chrysene	420	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	430	38
Benzo(k)fluoranthene	180	38
Benzo(a)pyrene	320	38
Indeno(1,2,3-cd)pyrene	200	38
Dibenz(a,h)anthracene	56	38
Benzo(g,h,i)perylene	170 J	380

Client ID: **HA-02-07-0-6**
Site: Earle NWS Closure

Lab Sample No: **392323**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8252.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	26.52	950	
2. Unknown Alkane	27.00	480	
3. Unknown Aldehyde	28.51	550	
4. Unknown Alkane	29.17	780	
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 2760

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d
Report Date: 05-Dec-2002 12:18

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d
Lab Smp Id: 392323 Client Smp ID: HA-02-07-0-6RE
Inj Date : 04-DEC-2002 20:08
Operator : BNAMS 4 Inst ID: BNAMS4.i
Smp Info : 392323;894384
Misc Info : D092;SB330;QA9020
Comment :
Method : /chem/BNAMS4.i/8270/12-03-02/04dec02.b/8270c1.m
Meth Date : 04-Dec-2002 10:36 rusin Quant Type: ISTD
Cal Date : 03-DEC-2002 15:11 Cal File: u8223.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	11.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.178	10.164	(0.804)	726130	86.1516	6500
$ 17 Phenol-d5 (SUR)	99	12.044	12.042	(0.952)	1082610	81.0017	6100
* 79 1,4-Dichlorobenzene-d4	152	12.653	12.652	(1.000)	206307	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	13.613	13.622	(0.918)	666535	38.3580	2900
* 80 Naphthalene-d8	136	14.830	14.837	(1.000)	796768	40.0000	
31 Naphthalene	128	14.863	14.877	(1.002)	8285	0.38128	29(a)
34 2-Methylnaphthalene	142	16.020	16.025	(1.080)	2731	0.17305	13(a)
$ 77 2-Fluorobiphenyl (SUR)	172	16.623	16.631	(0.937)	737850	42.2685	3200
39 Acenaphthylene	152	17.510	17.522	(0.987)	6448	0.27345	21(a)
* 82 Acenaphthene-d10	164	17.748	17.755	(1.000)	538978	40.0000	
42 Acenaphthene	154	17.801	17.808	(1.003)	11300	0.79179	60(a)
43 Dibenzofuran	168	18.079	18.095	(1.019)	14343	0.65035	49(a)
47 Fluorene	166	18.648	18.660	(1.051)	23587	1.19614	90(a)

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d
Report Date: 05-Dec-2002 12:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 18 2,4,6-Tribromophenol (SUR)	330	19.046	19.053	(1.073)	194794	46.9345	3600
* 83 Phenanthrene-d10	188	20.206	20.210	(1.000)	1038792	40.0000	
52 Phenanthrene	178	20.239	20.250	(1.002)	361627	13.6572	1000
53 Anthracene	178	20.319	20.337	(1.006)	74281	2.77765	210(a)
54 Carbazole	167	20.578	20.596	(1.018)	49610	2.16305	160(a)
56 Fluoranthene	202	22.198	22.207	(1.099)	477751	14.0338	1100
57 Pyrene	202	22.578	22.586	(0.919)	370045	13.6066	1000
$ 78 Terphenyl-d14 (SUR)	244	22.818	22.819	(0.929)	978097	48.5077	3700
61 Benzo(a)anthracene	228	24.538	24.552	(0.999)	133629	5.05902	380
* 81 Chrysene-d12	240	24.566	24.572	(1.000)	928321	40.0000	
62 Chrysene	228	24.599	24.619	(1.001)	129627	5.56183	420
65 Benzo(b)fluoranthene	252	26.700	26.723	(0.963)	133105	5.71882	430
66 Benzo(k)fluoranthene	252	26.760	26.803	(0.965)	54357	2.37361	180(M)
67 Benzo(a)pyrene	252	27.540	27.586	(0.993)	90745	4.21748	320
* 84 Perylene-d12	264	27.727	27.740	(1.000)	776461	40.0000	
68 Indeno(1,2,3-cd)pyrene	276	31.350	31.437	(1.131)	61044	2.69825	200(M)
69 Dibenz(a,h)anthracene	278	31.430	31.544	(1.134)	14369	0.73876	56(M)
70 Benzo(g,h,i)perylene	276	32.487	32.619	(1.172)	50295	2.28202	170(aM)

QC Flag Legend

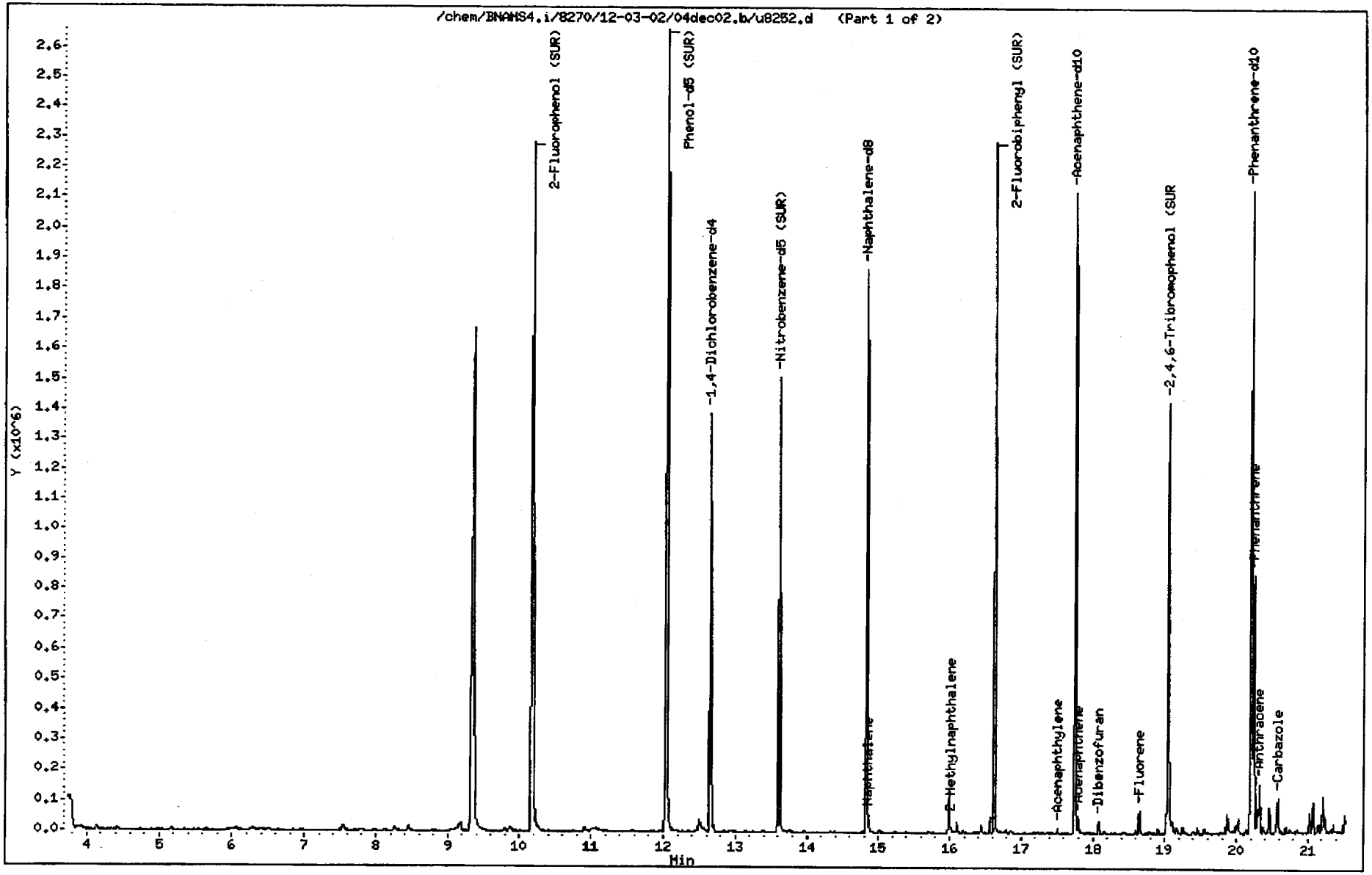
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d
Date : 04-DEC-2002 20:08
Client ID: HA-02-07-0-6RE
Sample Info: 392323;894384

Instrument: BNAMS4.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



872

STL Edison

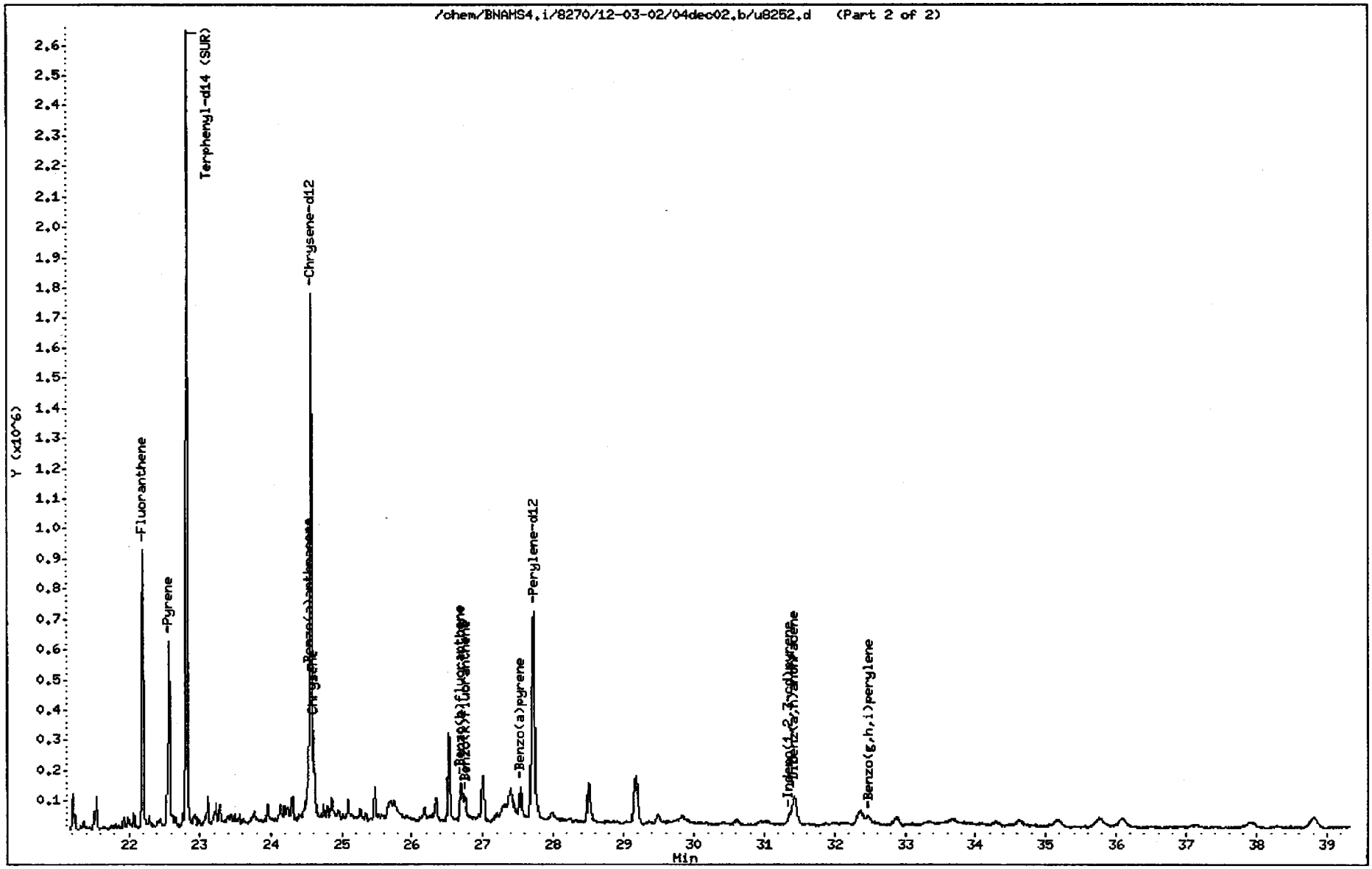
D092

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d
Date : 04-DEC-2002 20:08
Client ID: HA-02-07-0-6RE
Sample Info: 392323;894384

Column phase: DB-5

Instrument: BNAMS4.i

Operator: BNAMS 4
Column diameter: 0.25



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

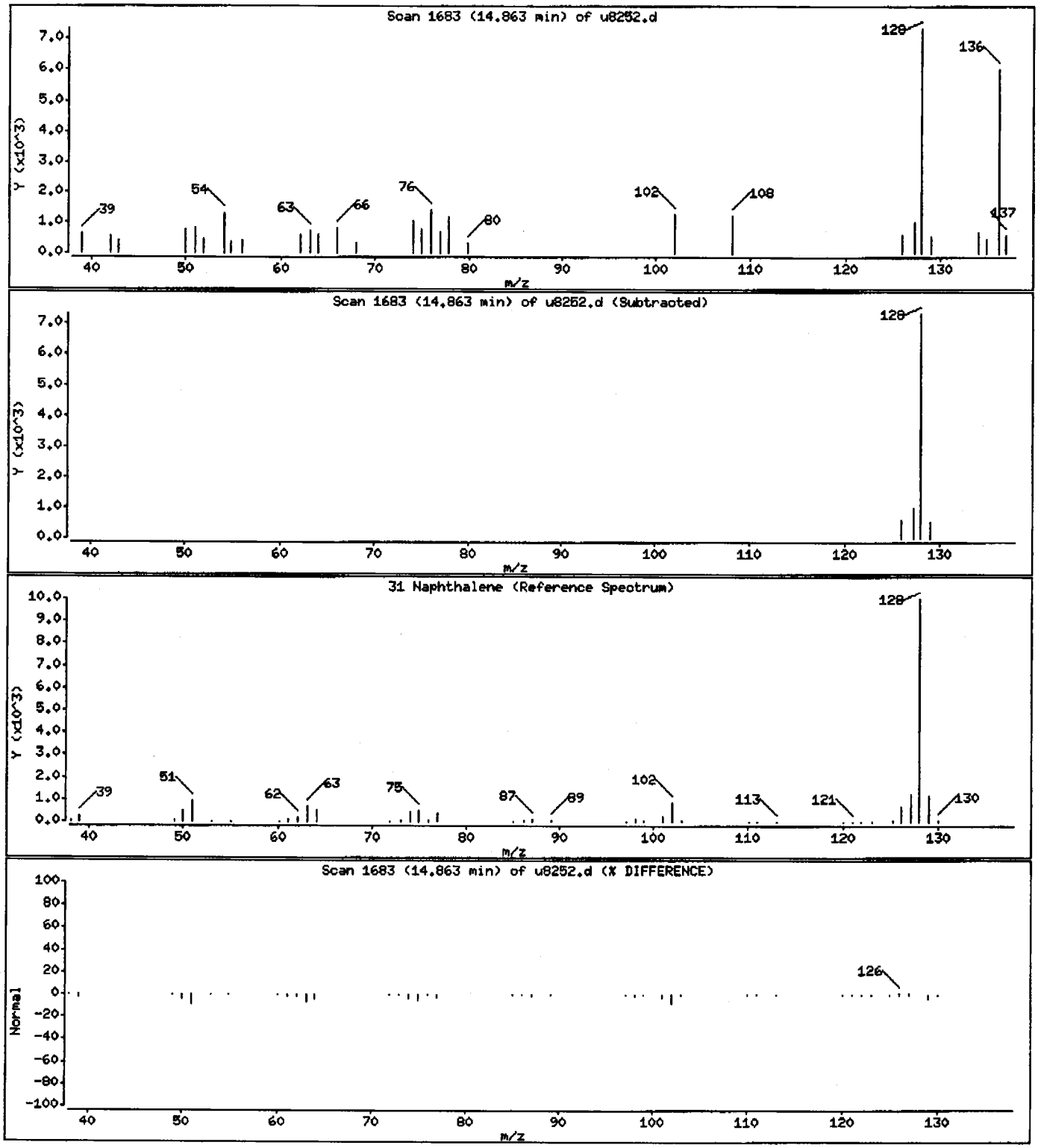
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

31 Naphthalene

Concentration: 29 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

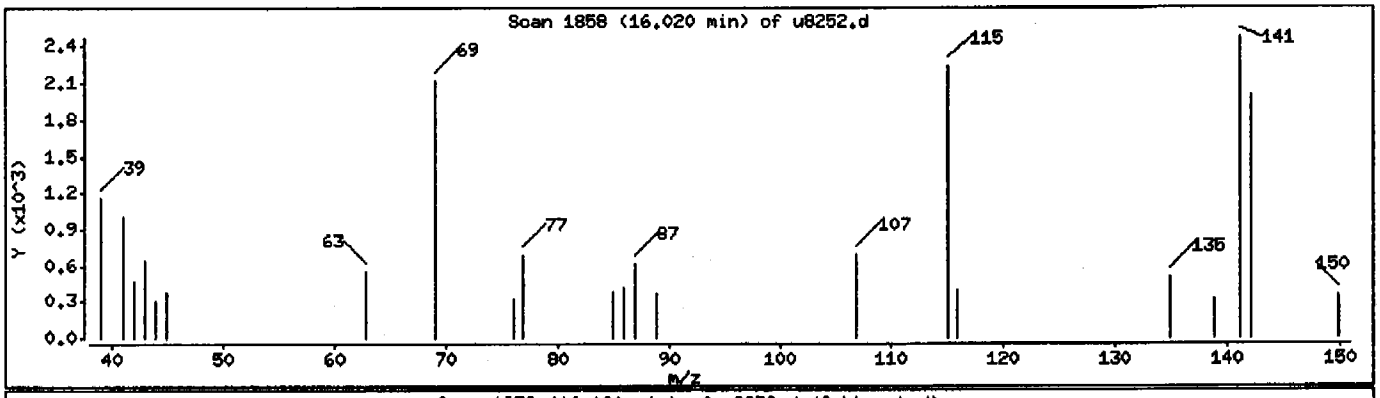
Operator: BNAMS 4

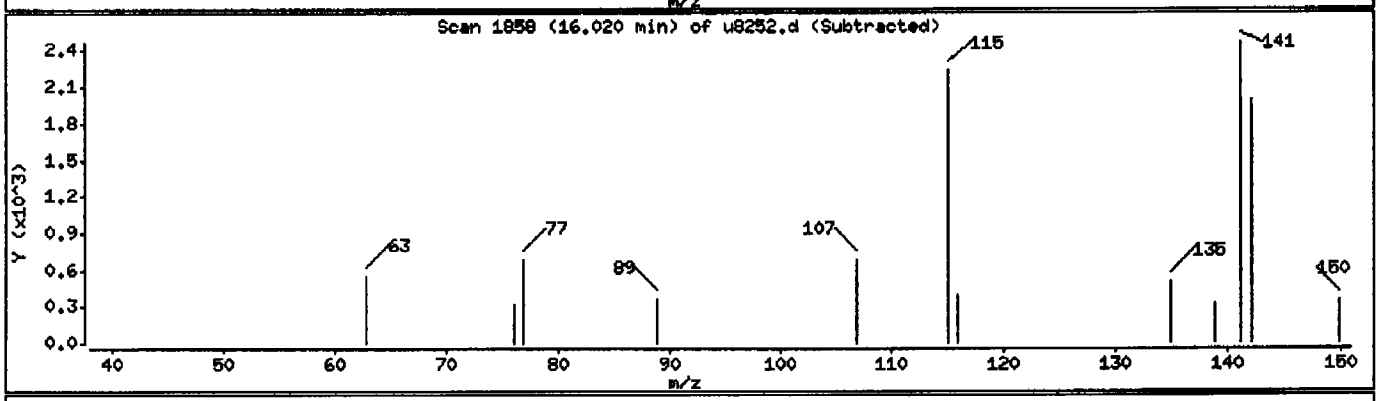
Column phase: DB-5

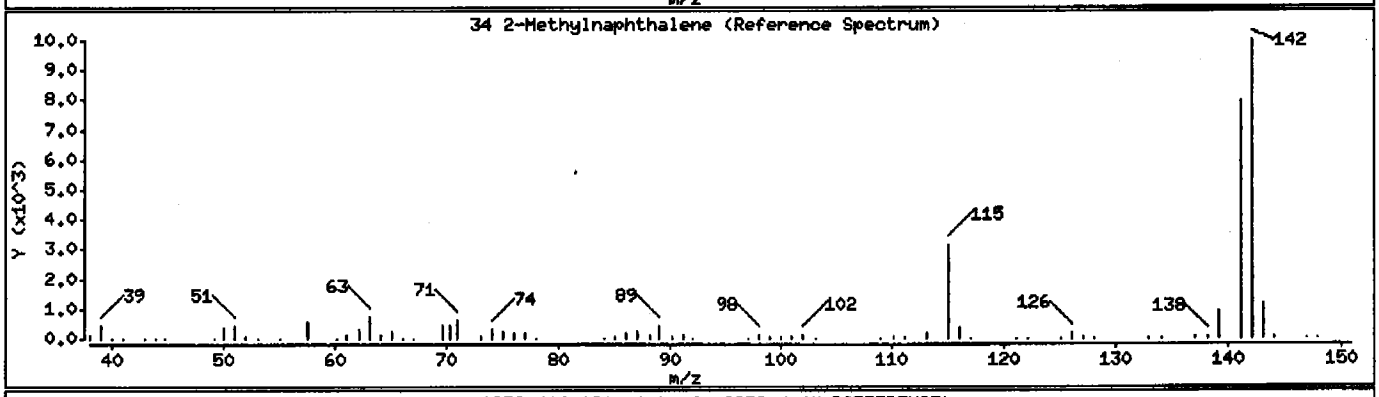
Column diameter: 0.25

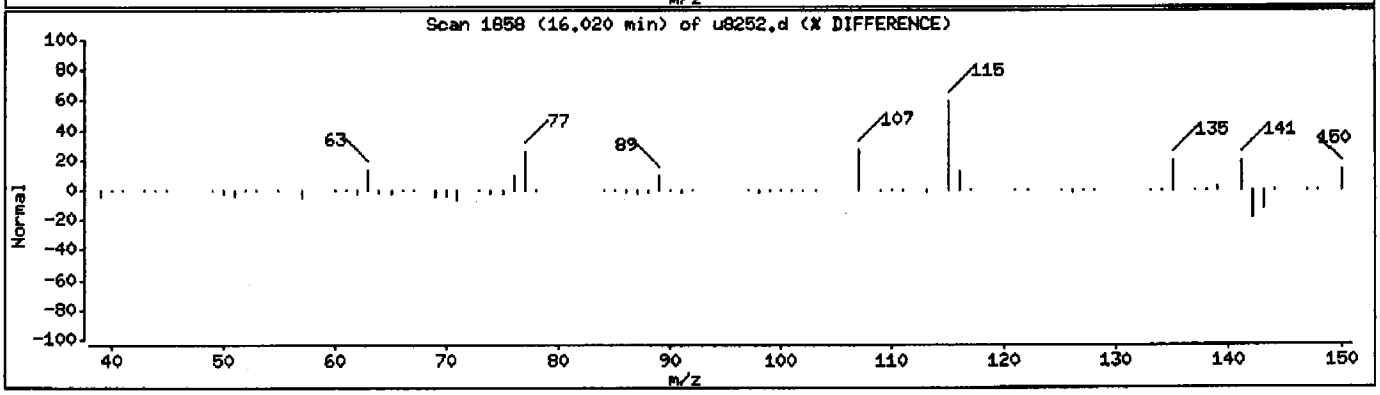
34 2-Methylnaphthalene

Concentration: 13 ug/Kg









Data File: /chem/BNAHS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAHS4.i

Sample Info: 392323;894384

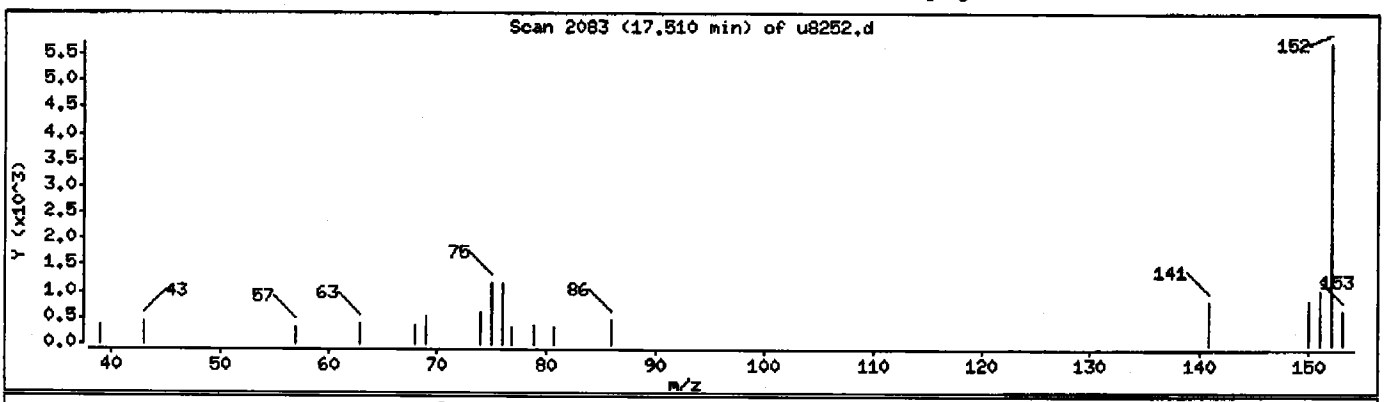
Operator: BNAHS 4

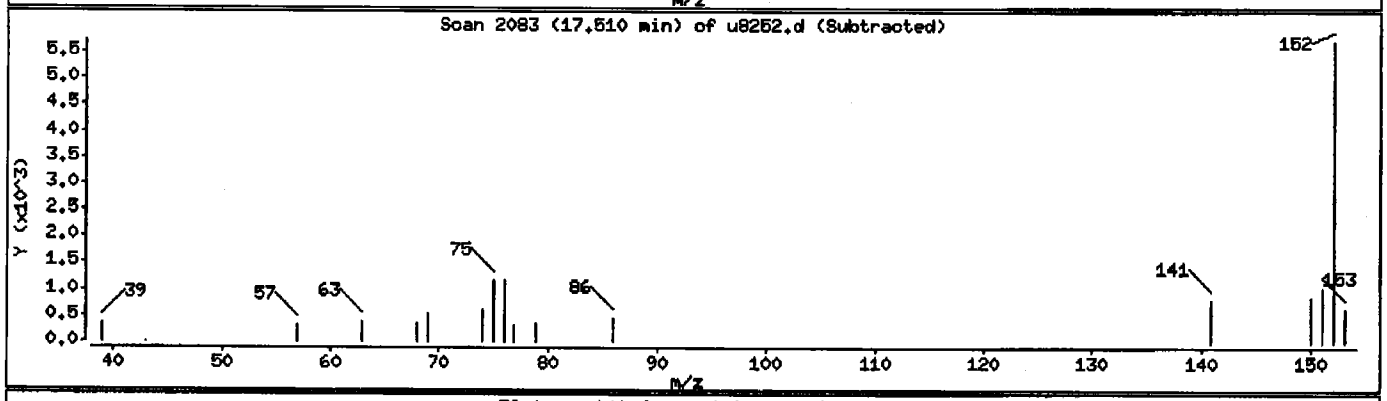
Column phase: DB-5

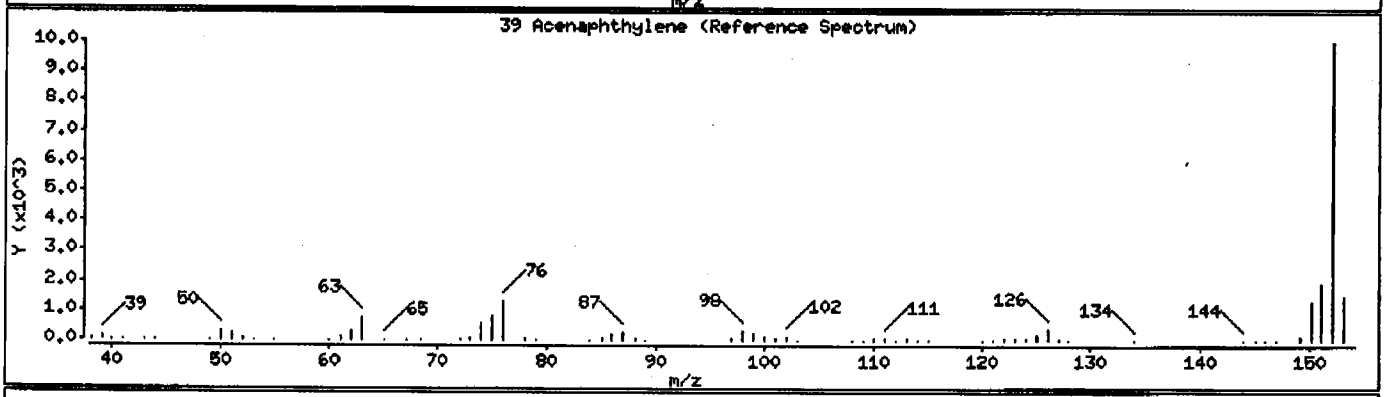
Column diameter: 0.25

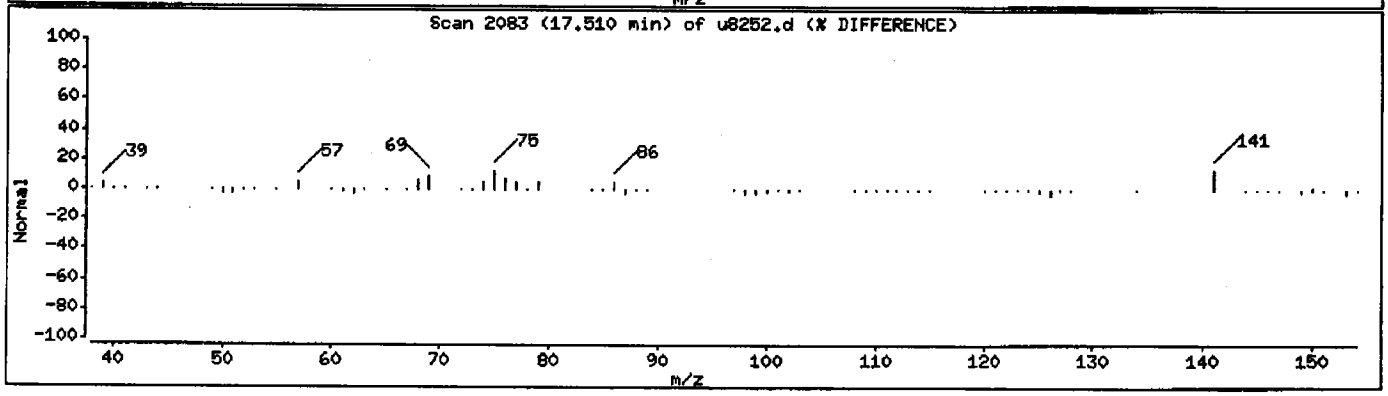
39 Acenaphthylene

Concentration: 21 ug/Kg









Data File: /chem/BNAHS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAHS4.i

Sample Info: 392323;894384

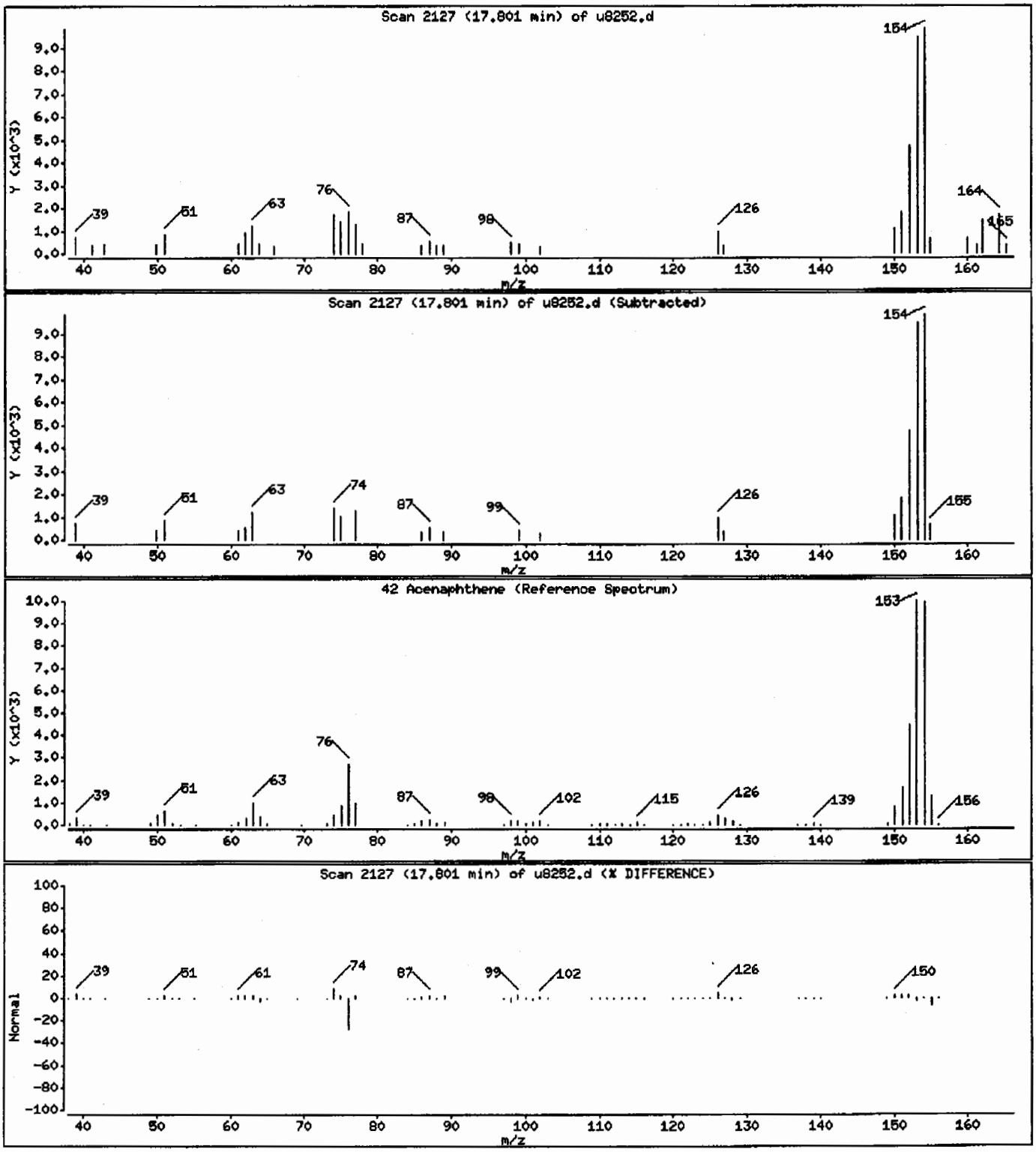
Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

42 Acenaphthene

Concentration: 60 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

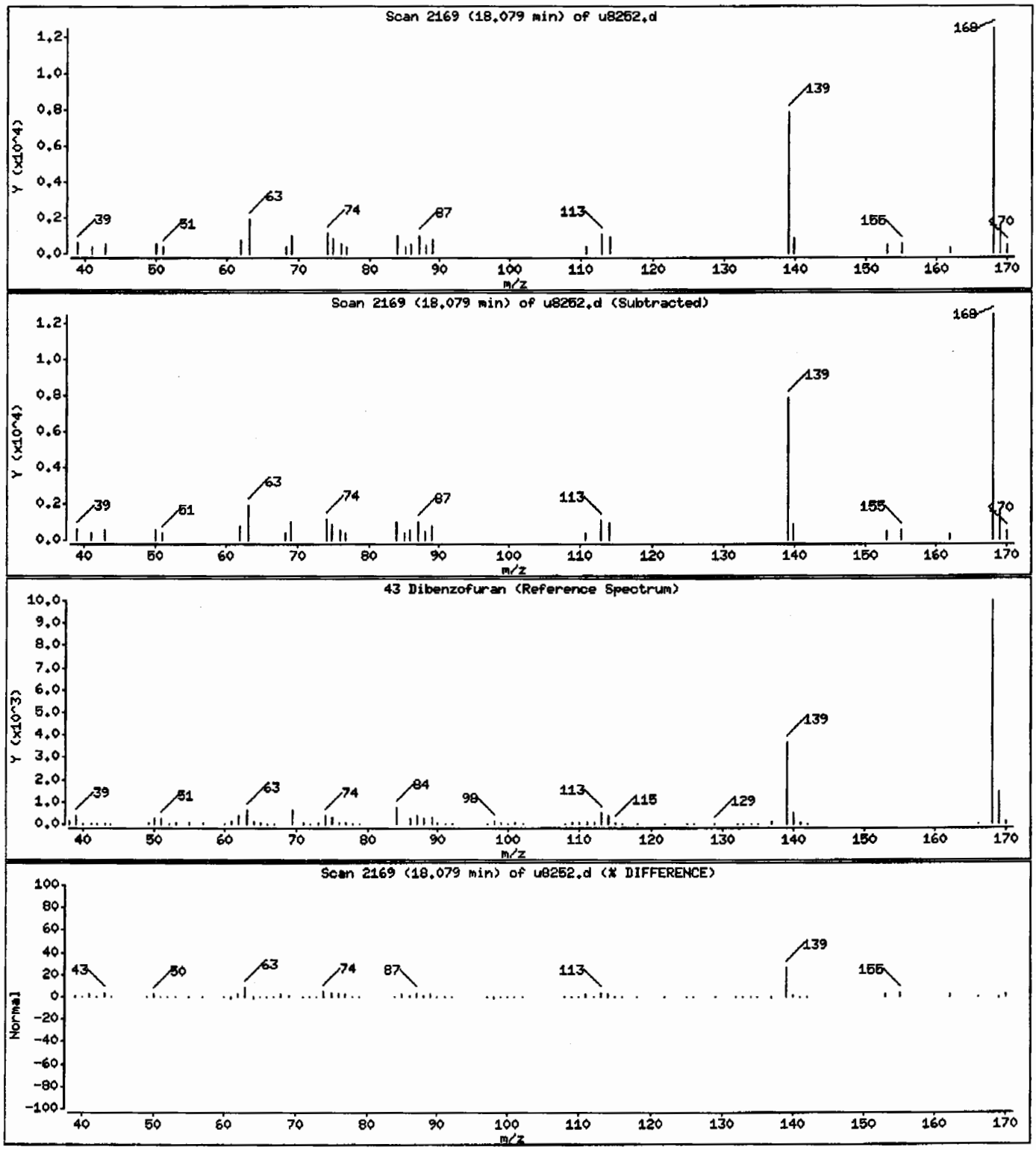
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

43 Dibenzofuran

Concentration: 49 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

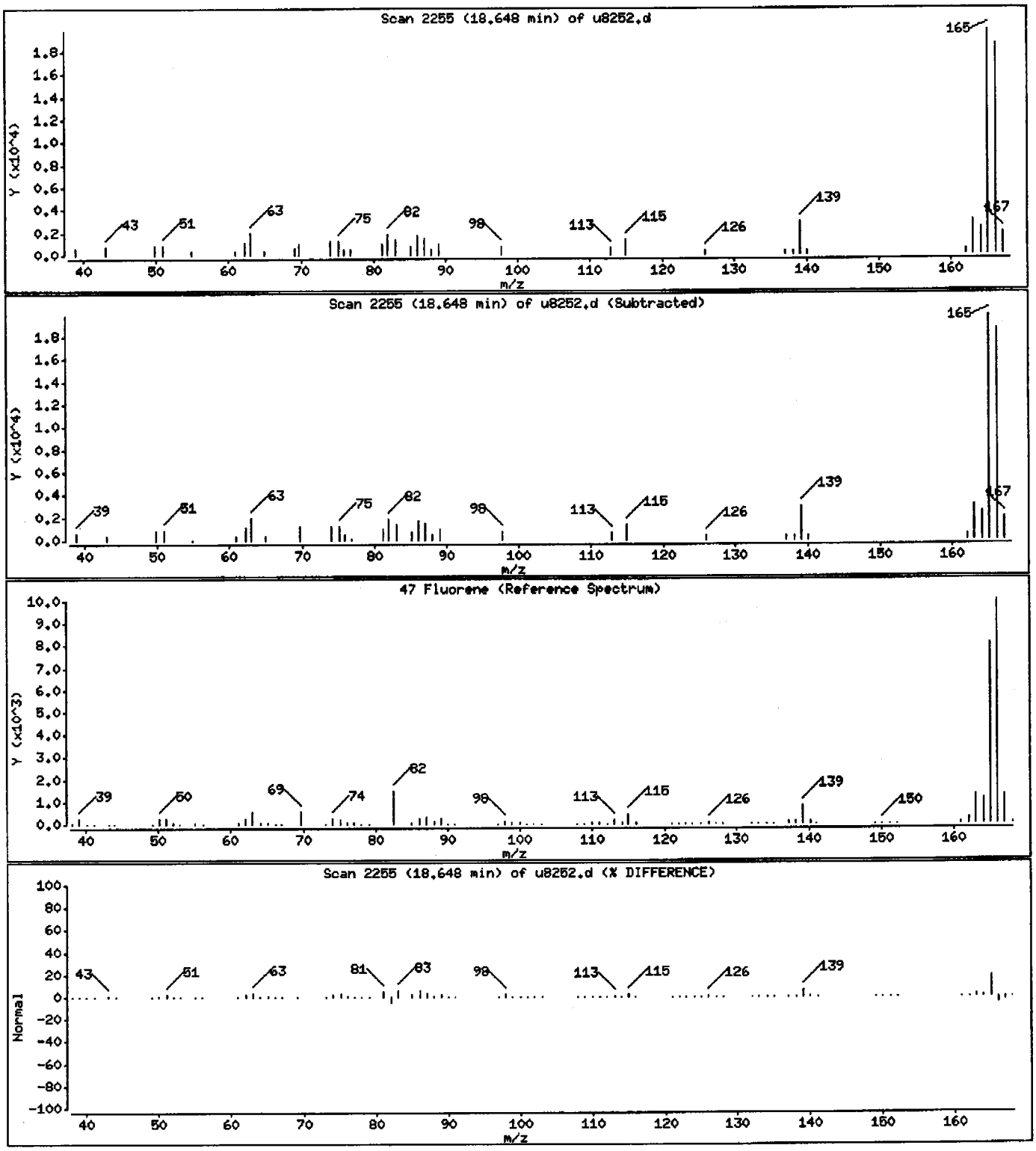
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

47 Fluorene

Concentration: 90 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

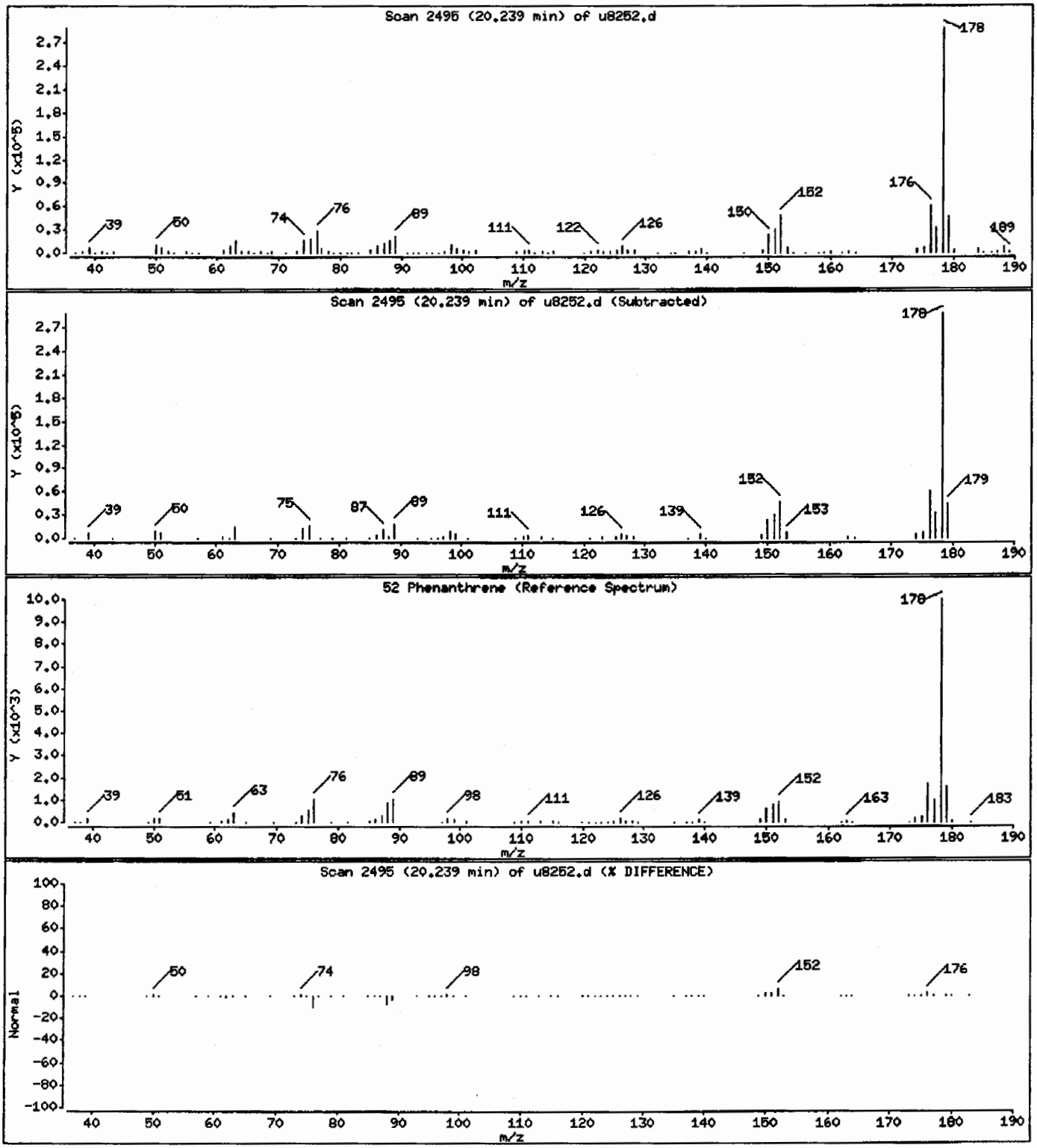
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 1000 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

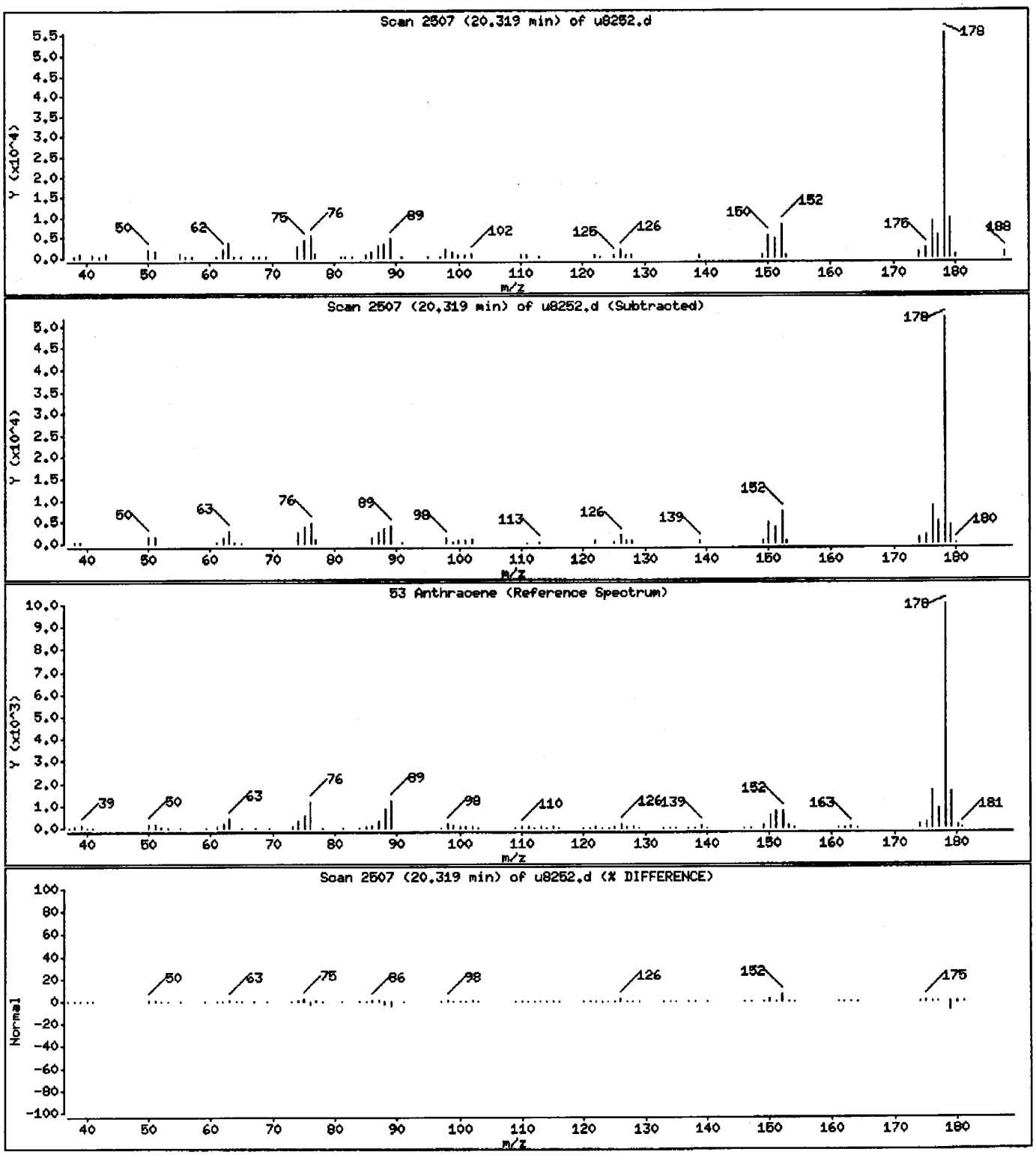
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

53 Anthracene

Concentration: 210 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

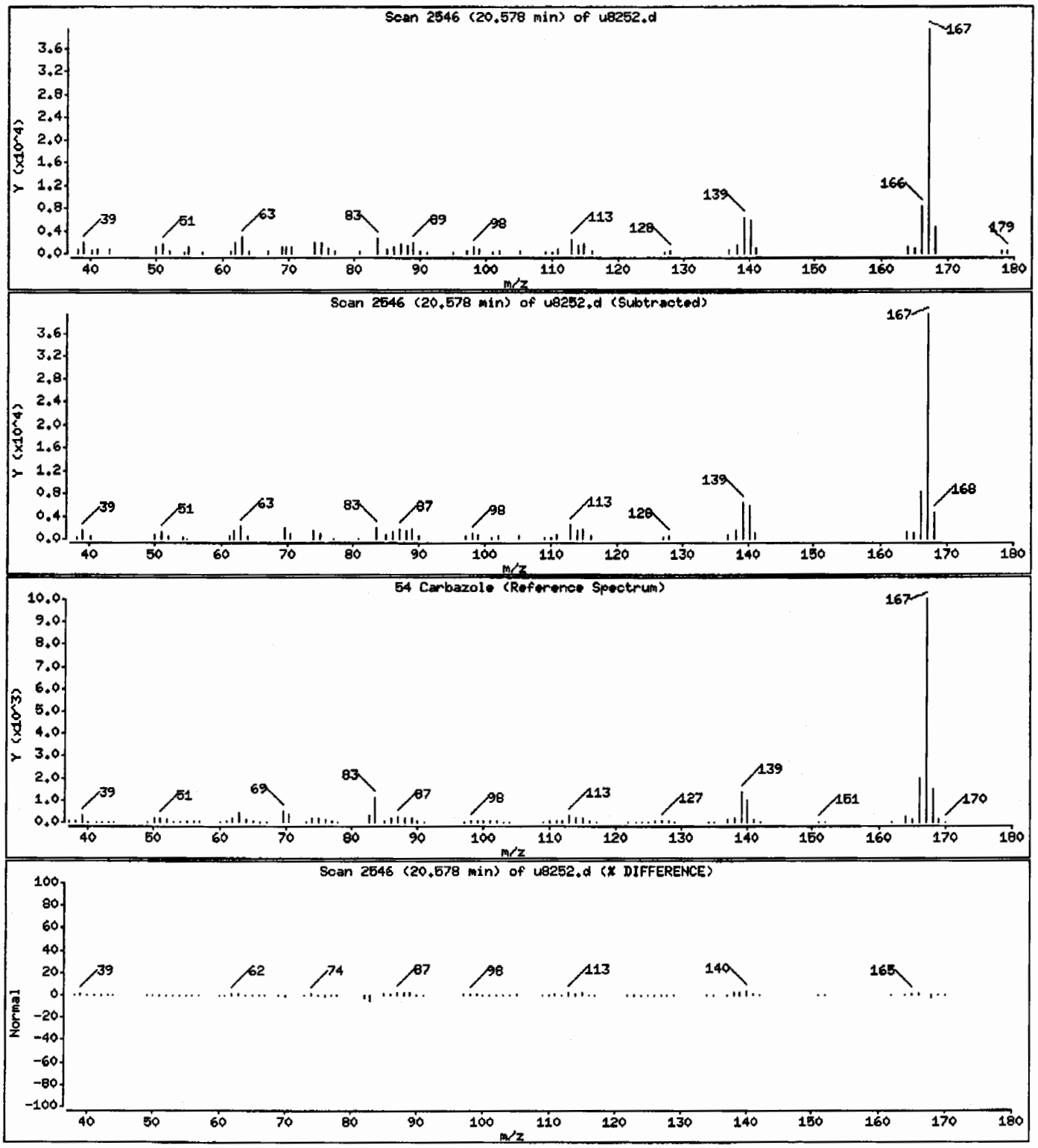
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

54 Carbazole

Concentration: 160 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

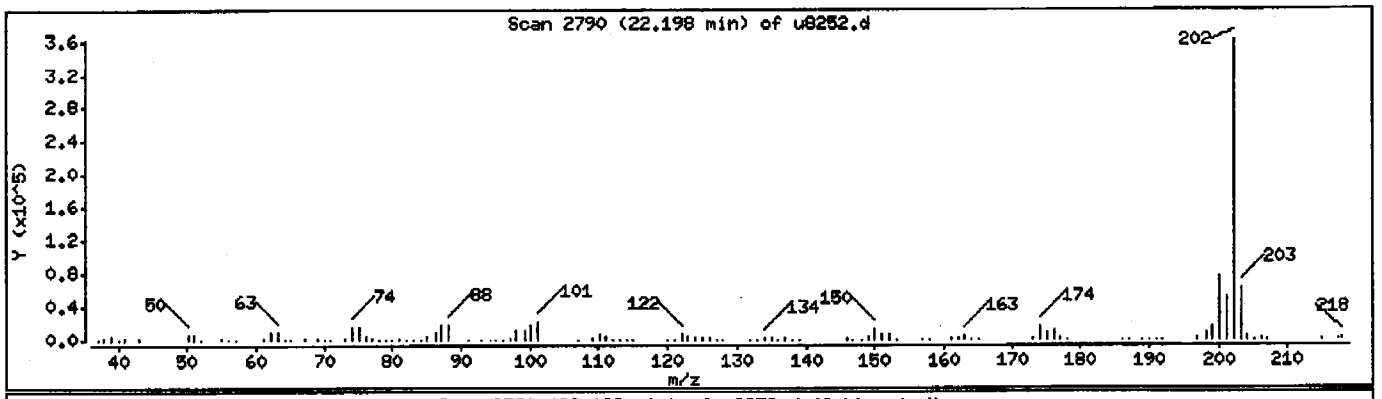
Operator: BNAMS 4

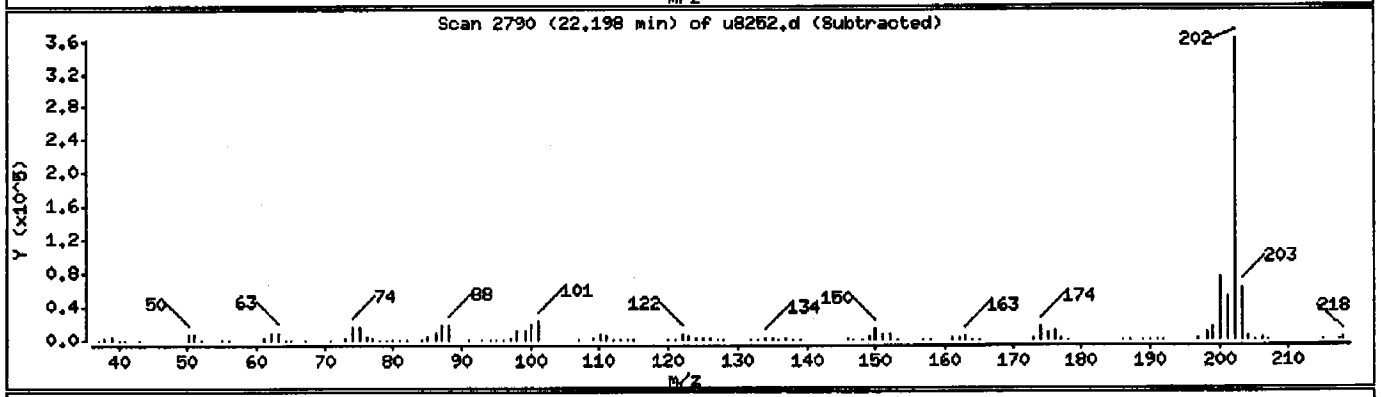
Column phase: DB-5

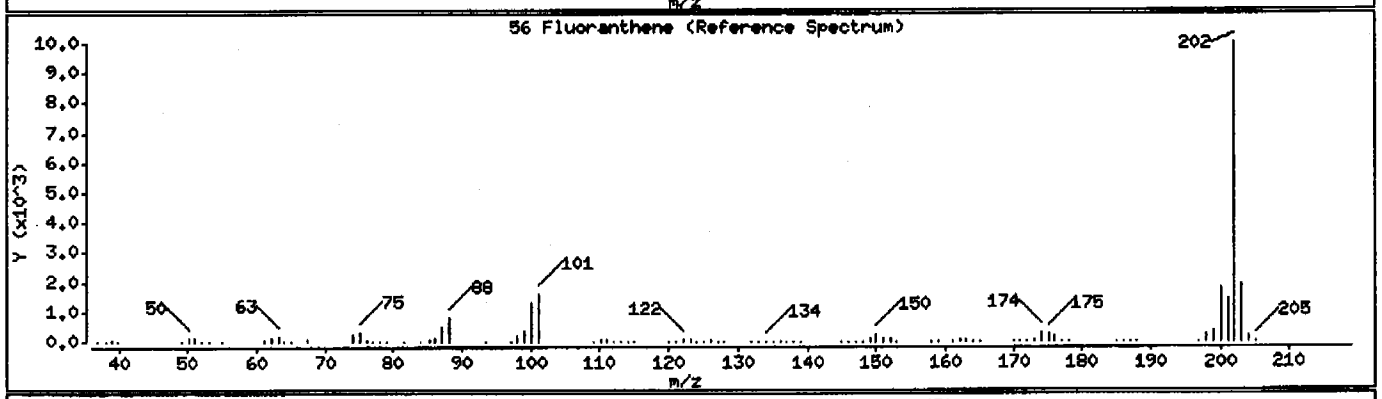
Column diameter: 0.25

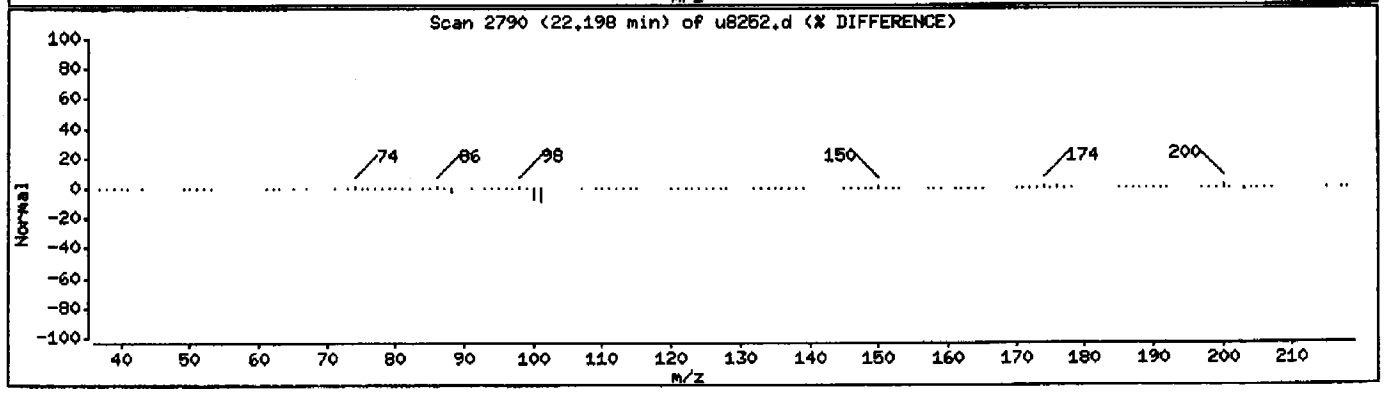
56 Fluoranthene

Concentration: 1100 ug/Kg









Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

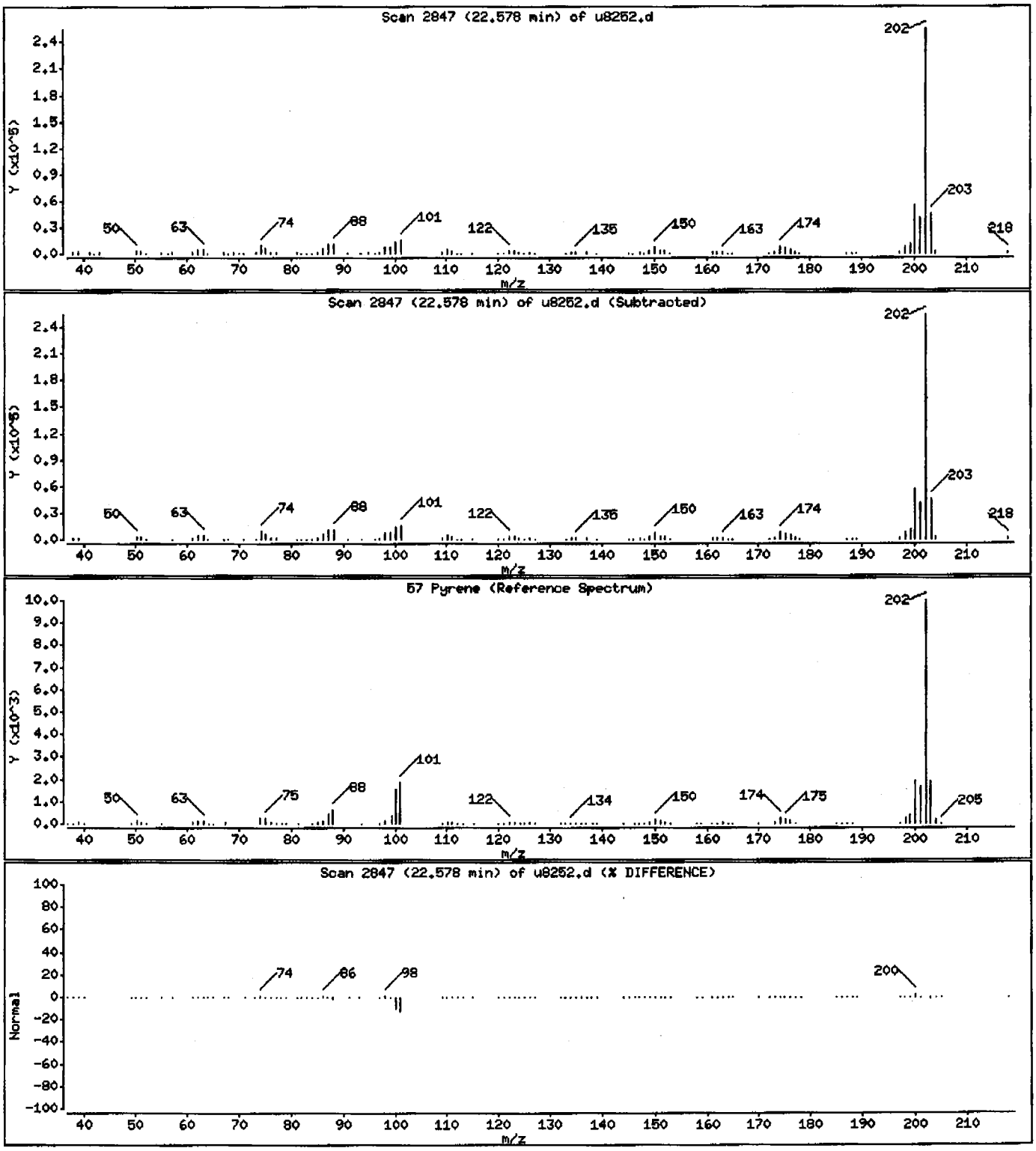
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 1000 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

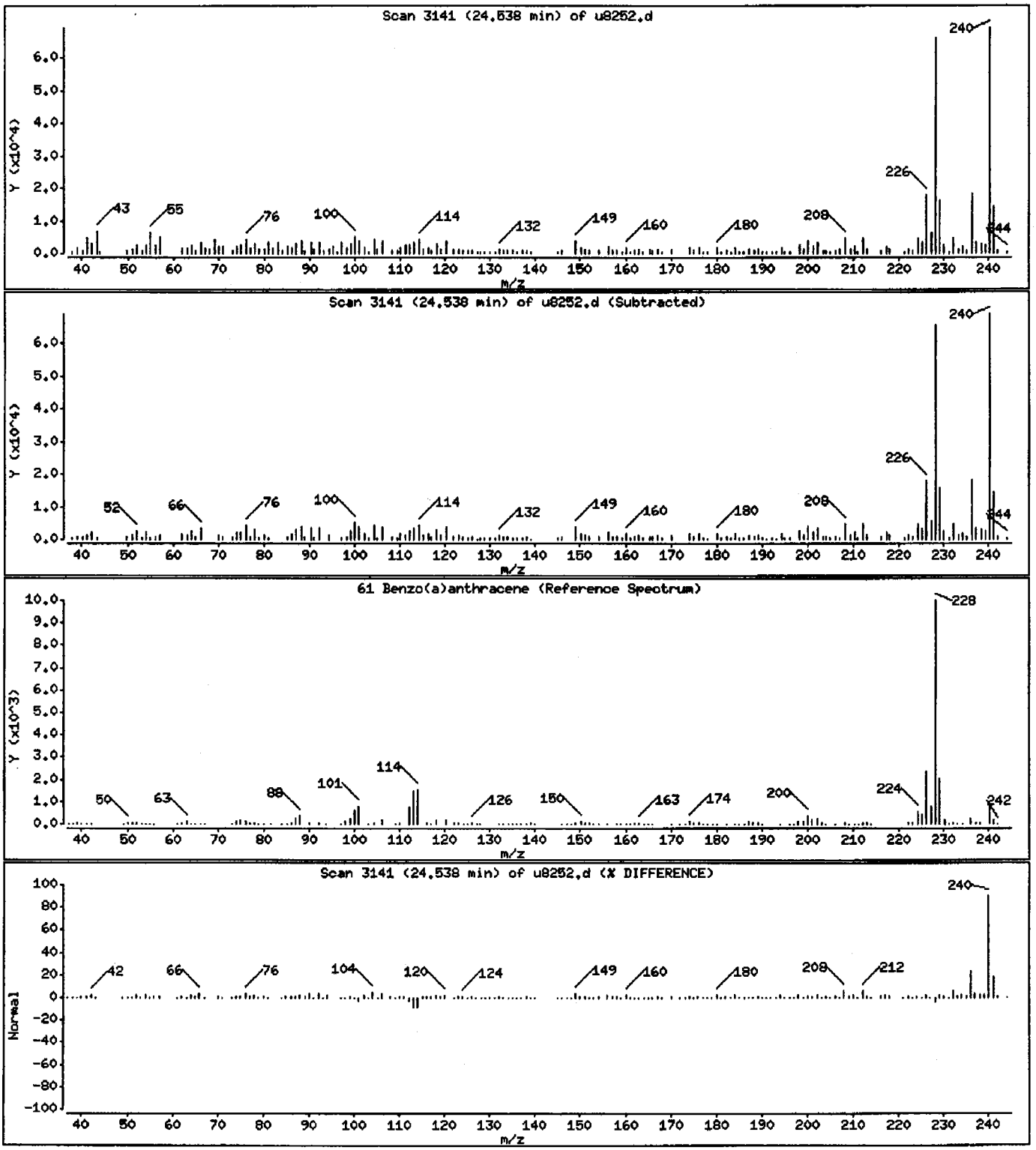
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

61 Benzo(a)anthracene

Concentration: 380 ug/Kg



Data File: /chem/BNAHS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAHS4.i

Sample Info: 392323;894384

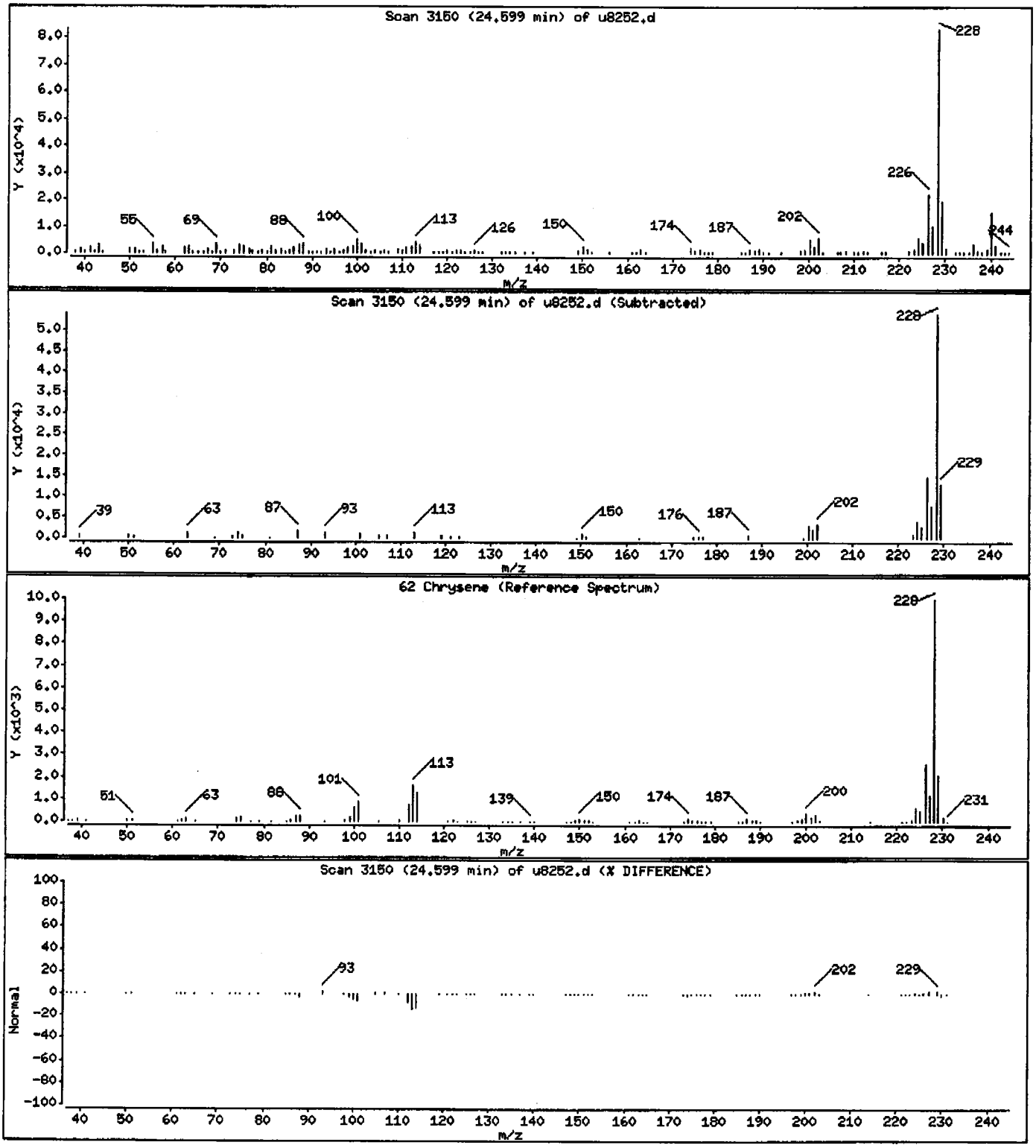
Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

62 Chrysene

Concentration: 420 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

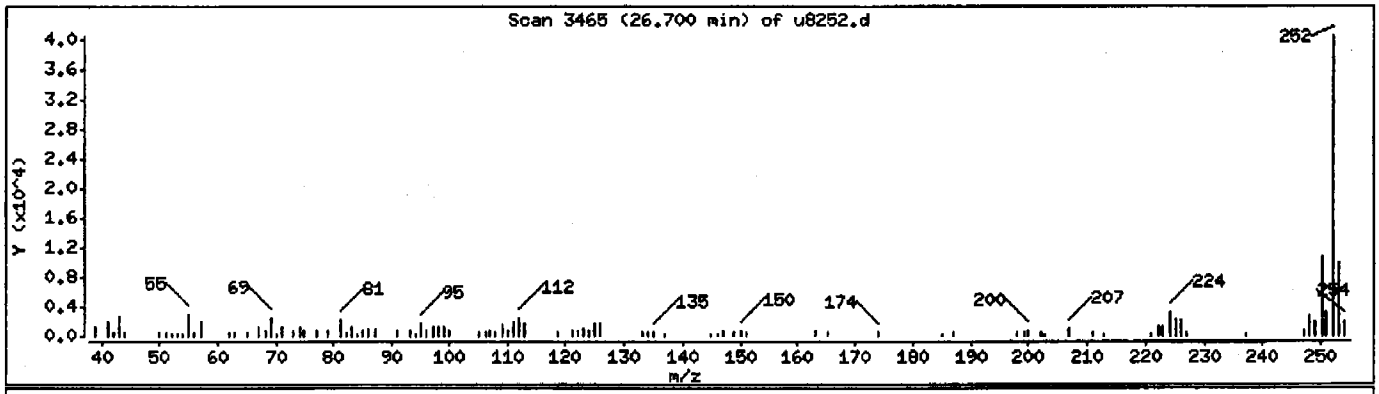
Operator: BNAMS 4

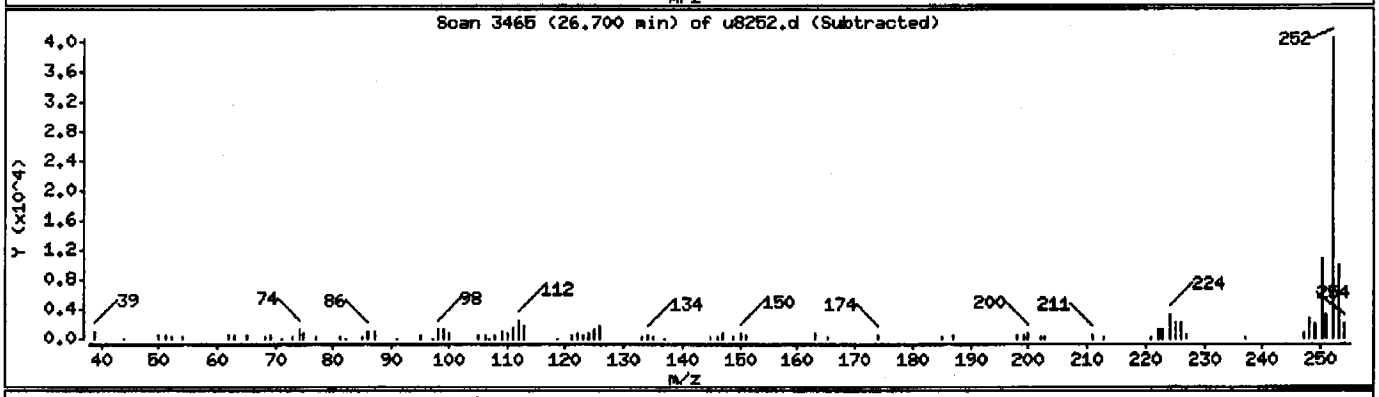
Column phase: DB-5

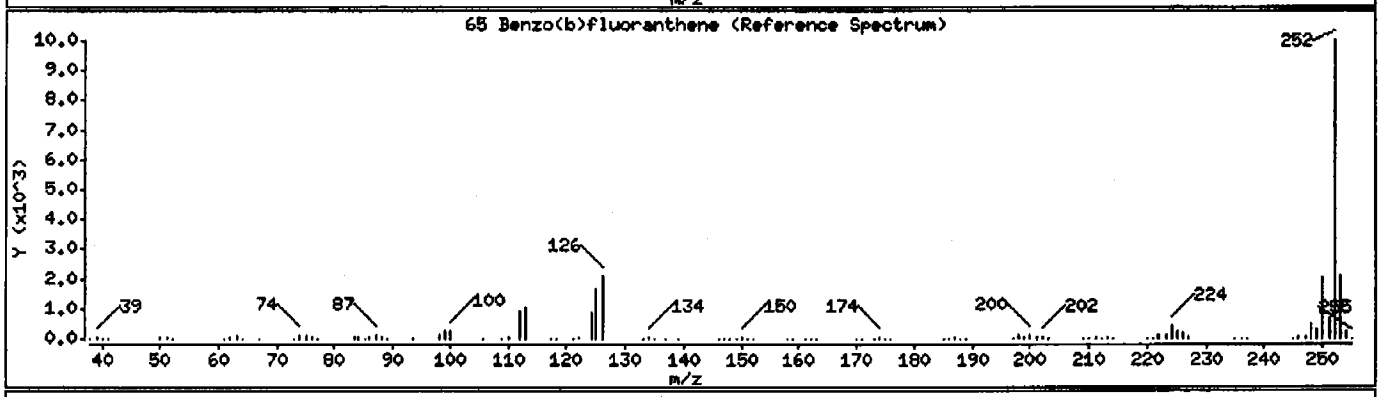
Column diameter: 0.25

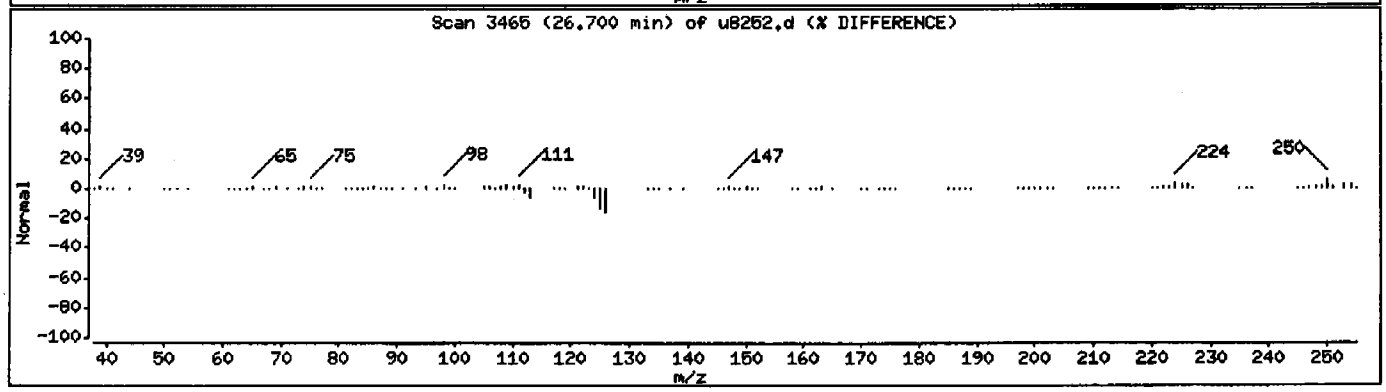
65 Benzo(b)fluoranthene

Concentration: 430 ug/Kg









Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

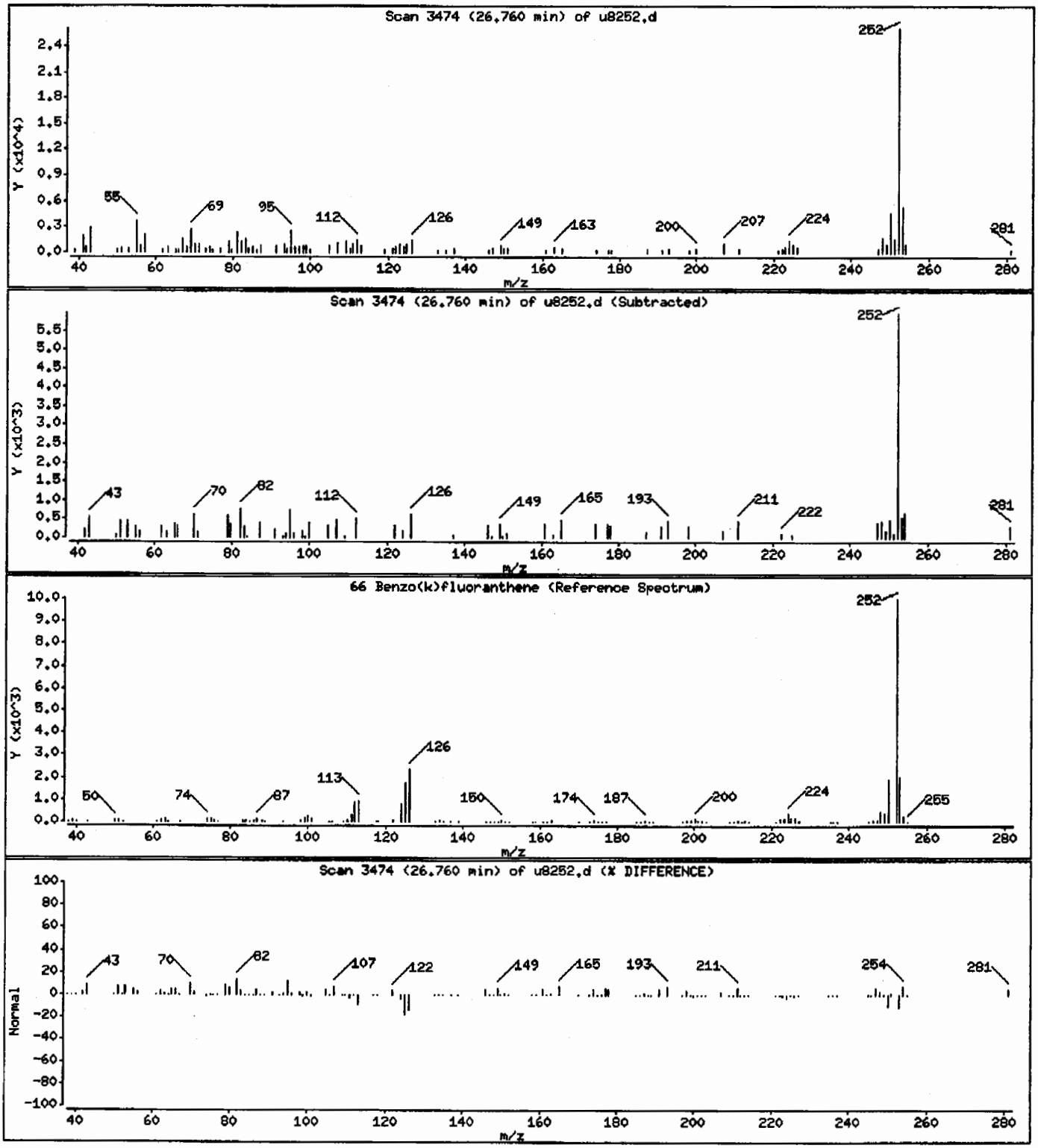
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

66 Benzo(k)fluoranthene

Concentration: 180 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

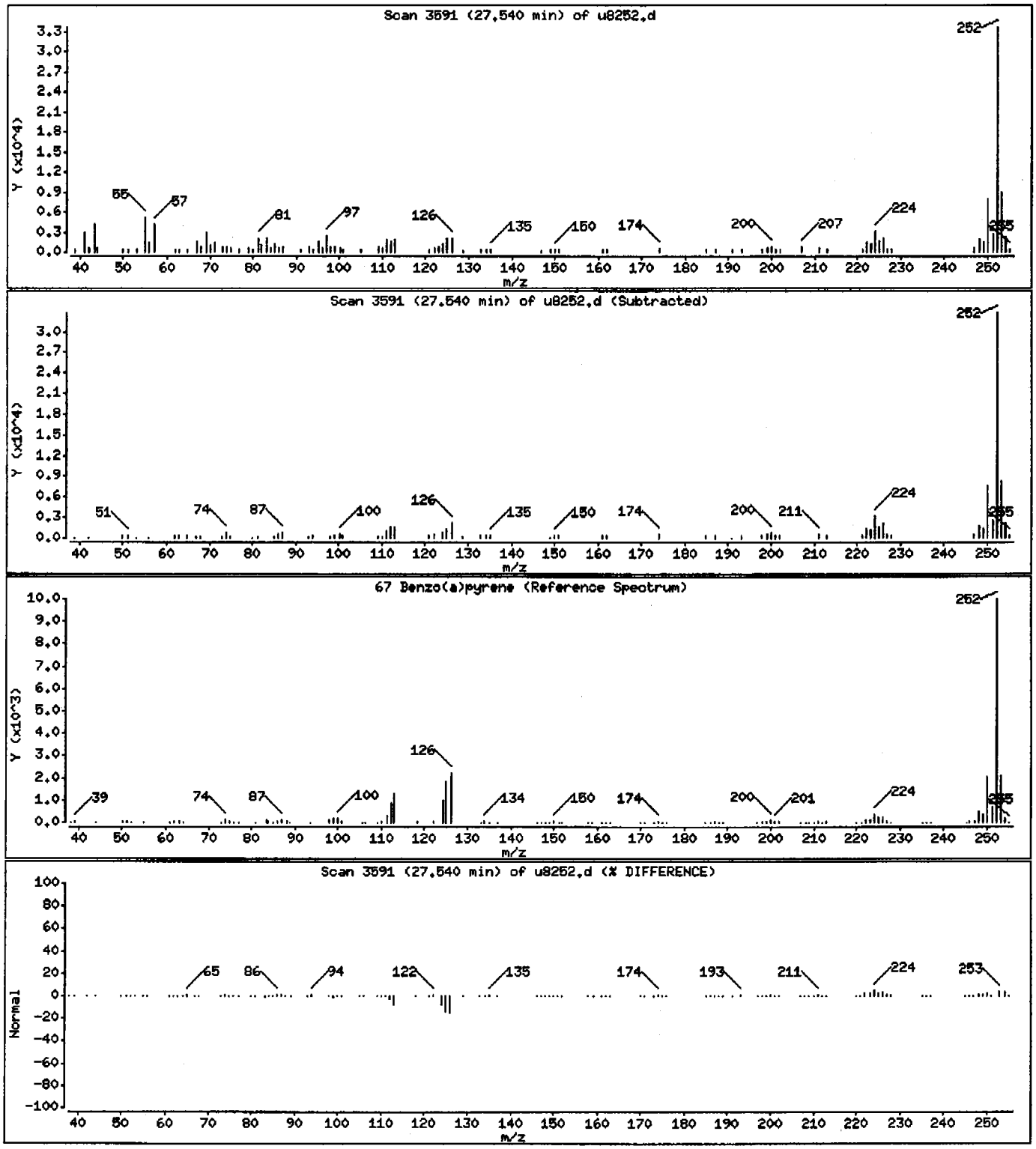
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

67 Benzo(a)pyrene

Concentration: 320 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

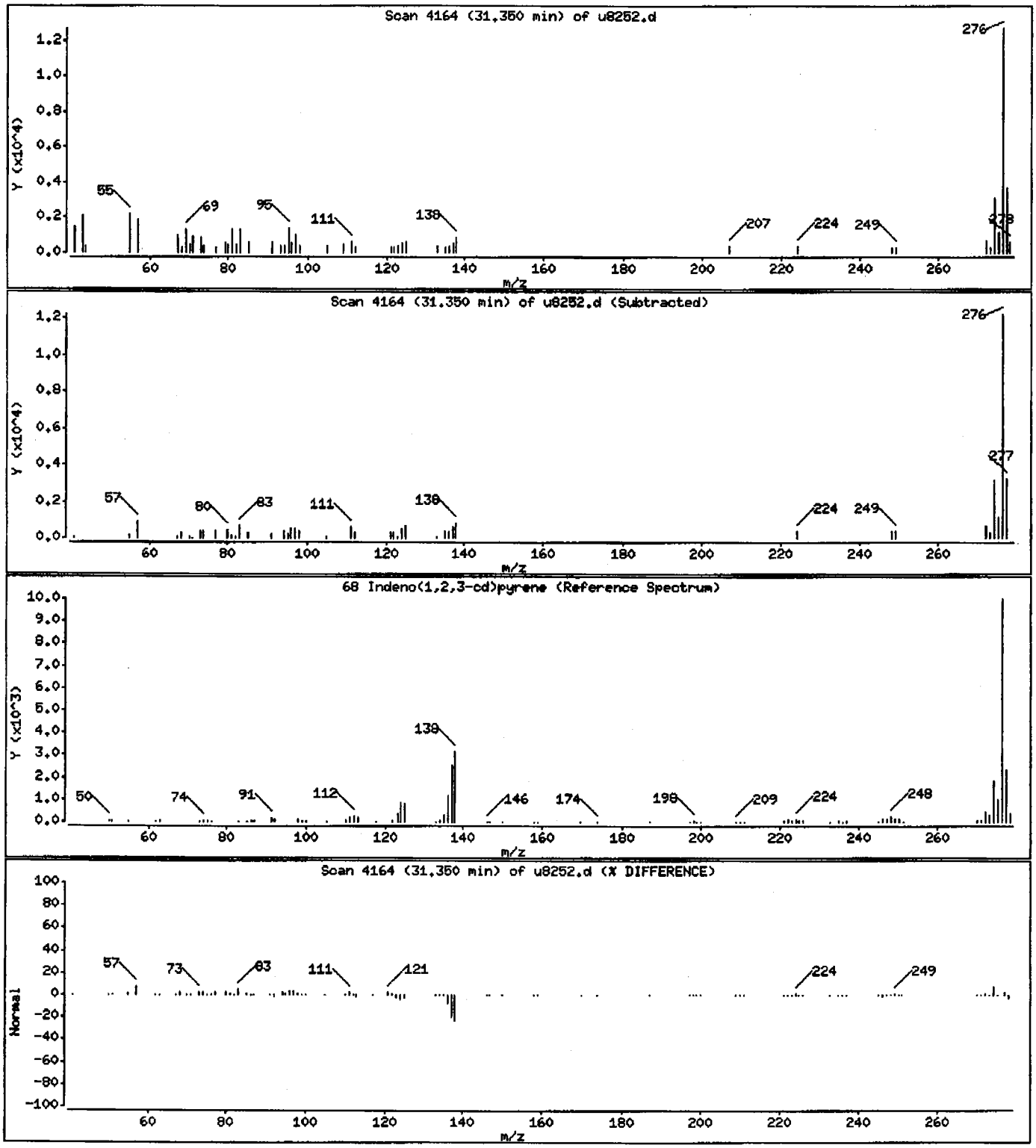
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

68 Indeno(1,2,3-cd)pyrene

Concentration: 200 ug/Kg



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

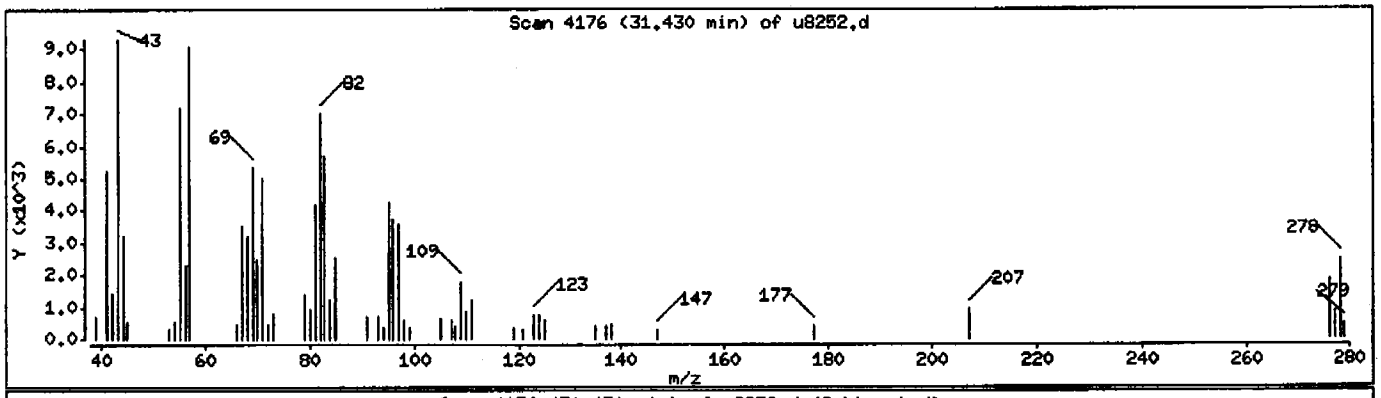
Operator: BNAMS 4

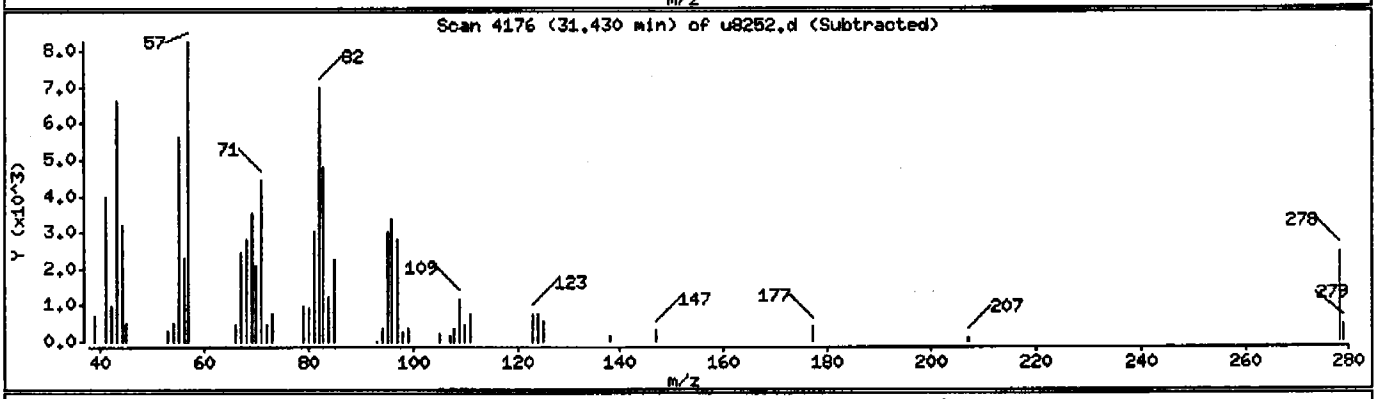
Column phase: DB-5

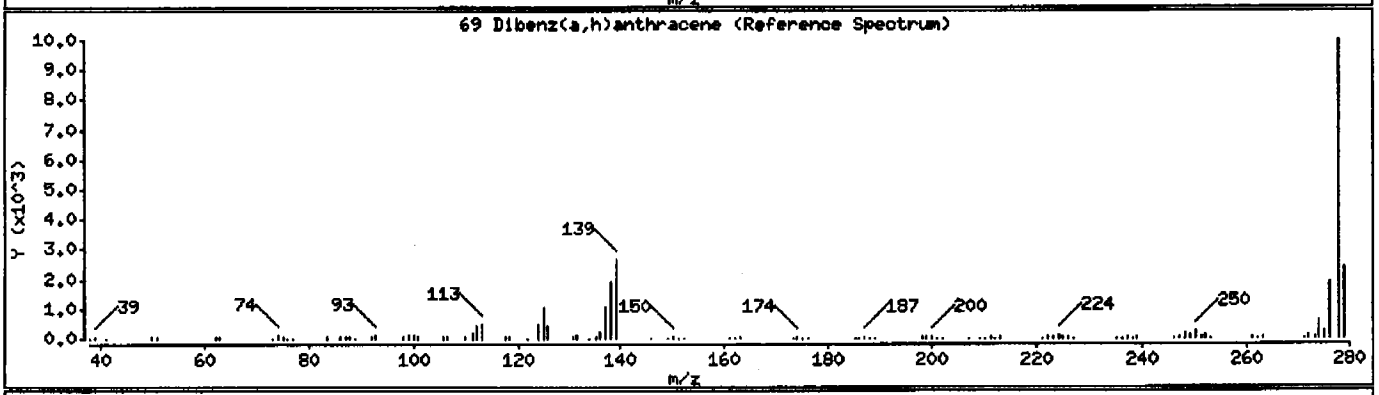
Column diameter: 0.25

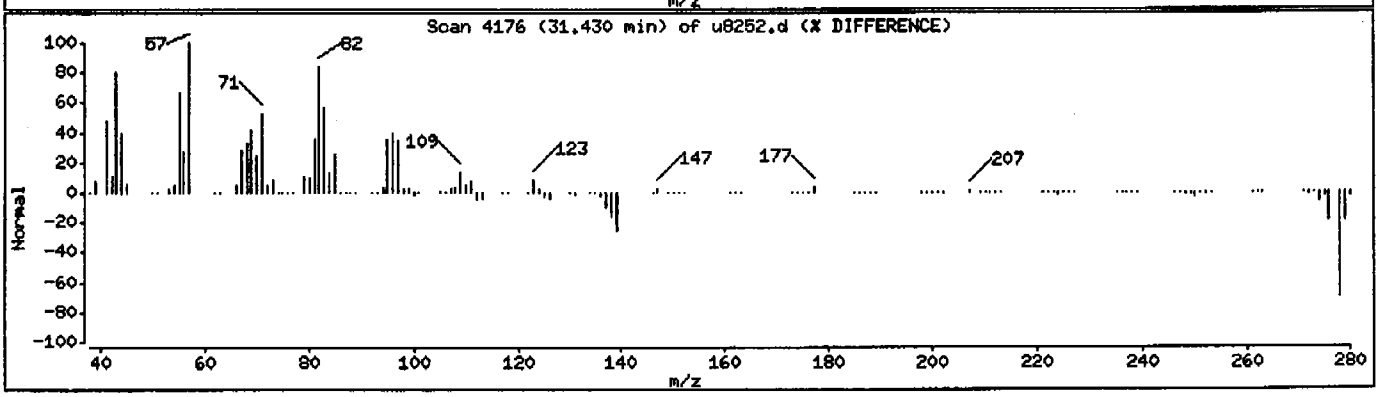
69 Dibenz(a,h)anthracene

Concentration: 56 ug/Kg









Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

Sample Info: 392323;894384

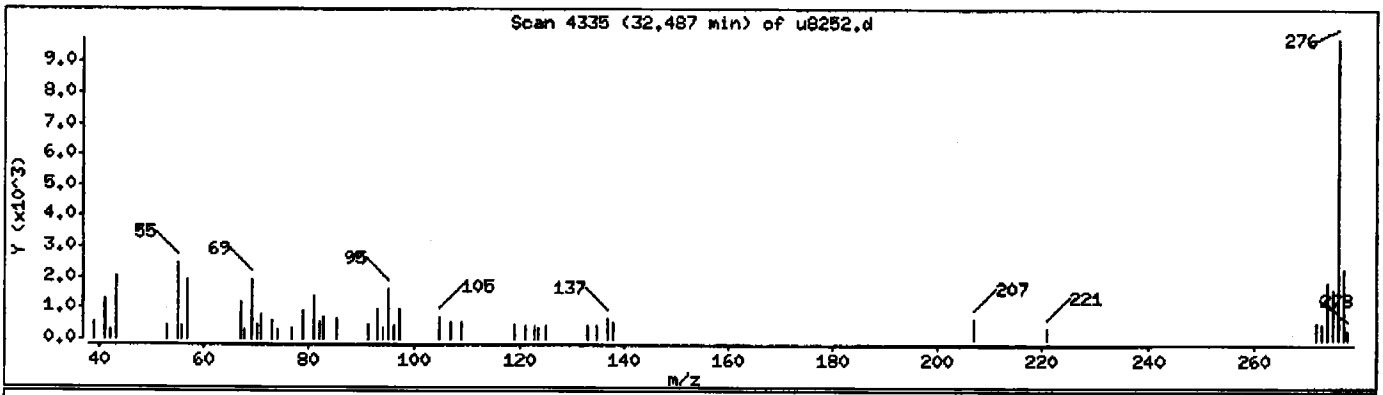
Operator: BNAMS 4

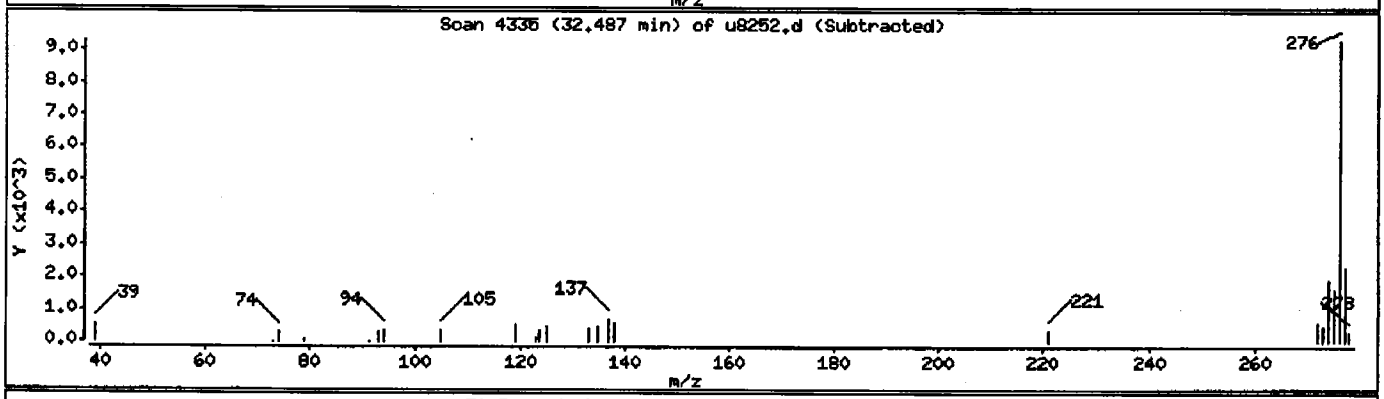
Column phase: DB-5

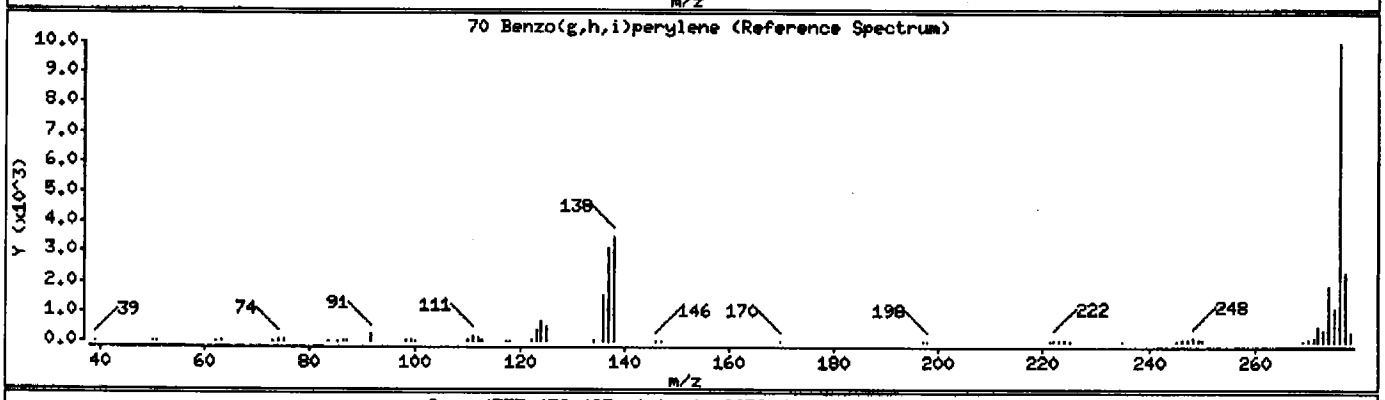
Column diameter: 0.25

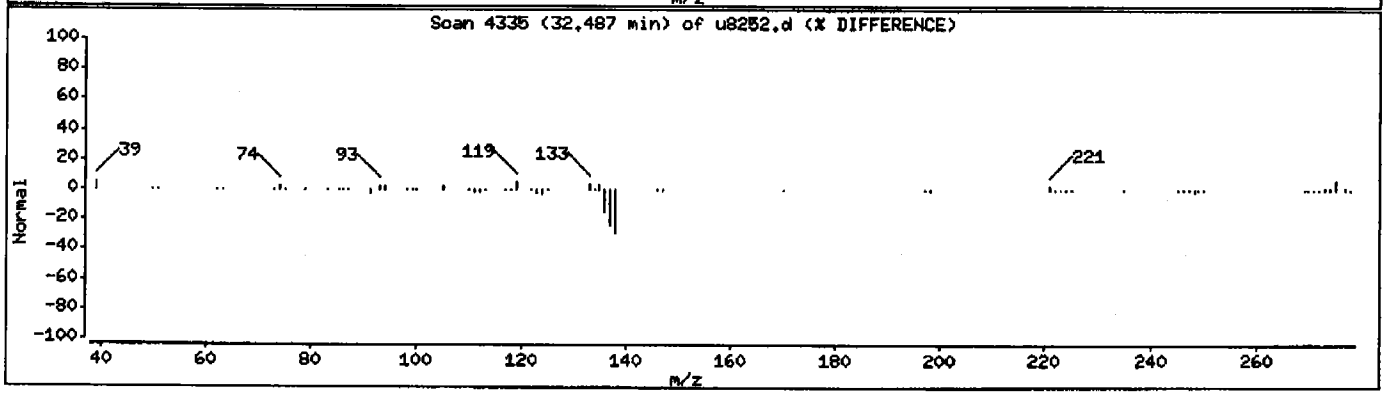
70 Benzo(g,h,i)perylene

Concentration: 170 ug/Kg









Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

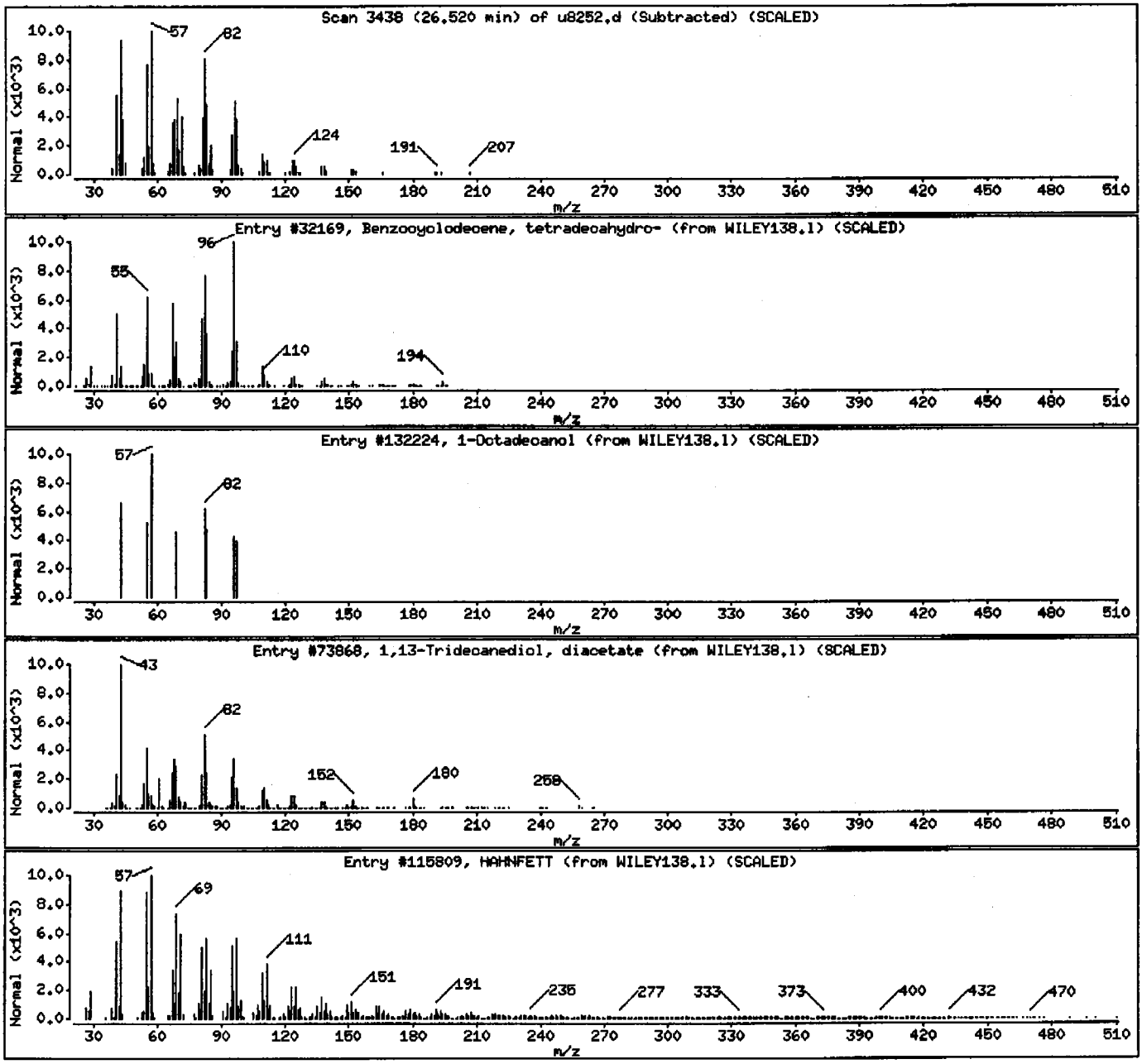
Sample Info: 392323;894384

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzocyclodecene, tetradecahydro-	61142-06-1	WILEY138.1	32169	46	C14H26	194
1-Octadecanol	112-92-5	WILEY138.1	132224	43	C18H380	270
1,13-Tridecanediol, diacetate	42236-70-4	WILEY138.1	73868	43	C17H3204	300
HAHNFETT	0-00-0	WILEY138.1	115809	38		9999



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

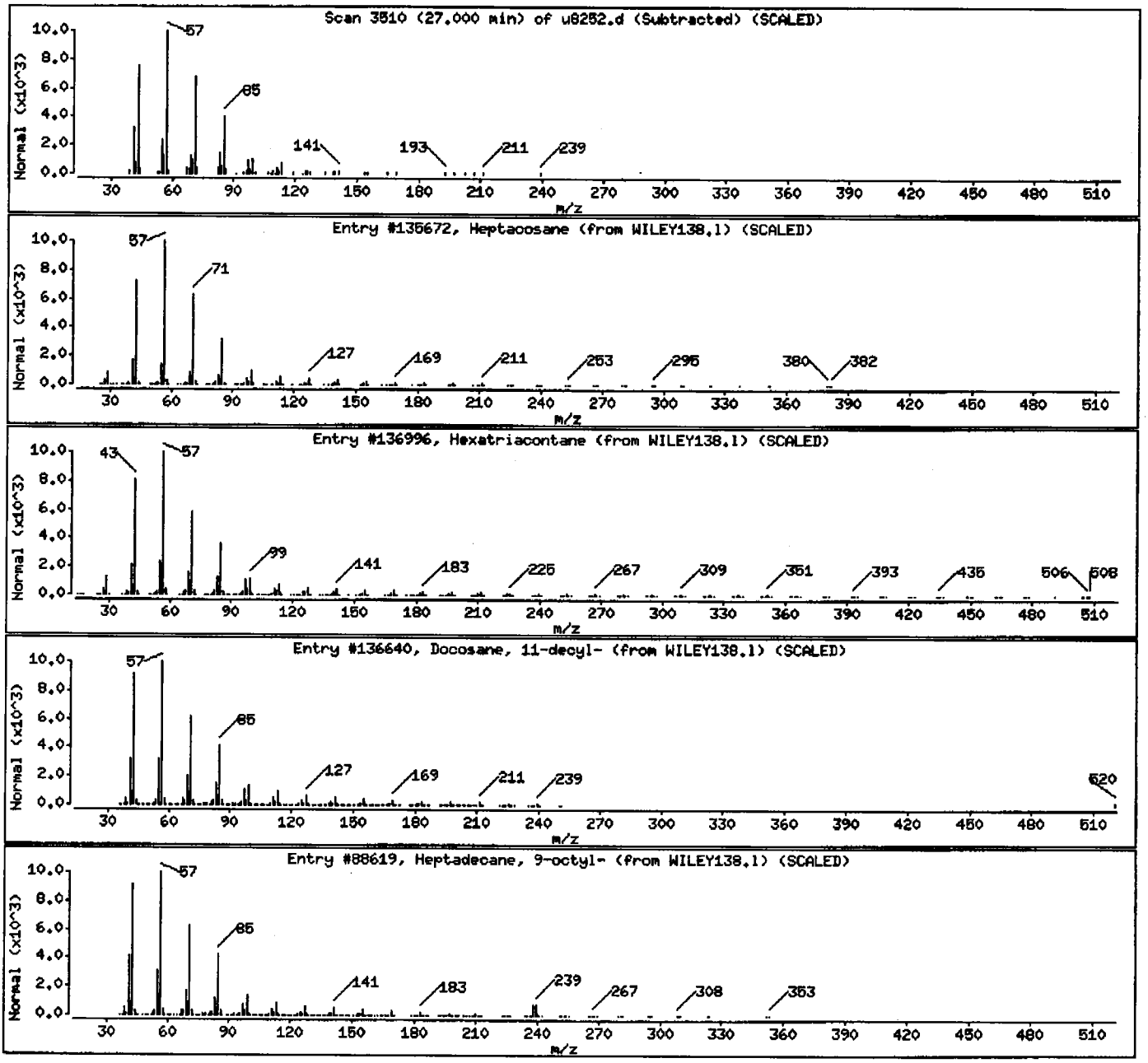
Sample Info: 392323;894384

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heptacosane	593-49-7	WILEY138.1	135672	90	C27H56	380
Hexatriacontane	630-06-8	WILEY138.1	136996	90	C36H74	507
Docosane, 11-decyl-	55401-55-3	WILEY138.1	136640	90	C32H66	451
Heptadecane, 9-octyl-	7225-64-1	WILEY138.1	88619	90	C25H52	352



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

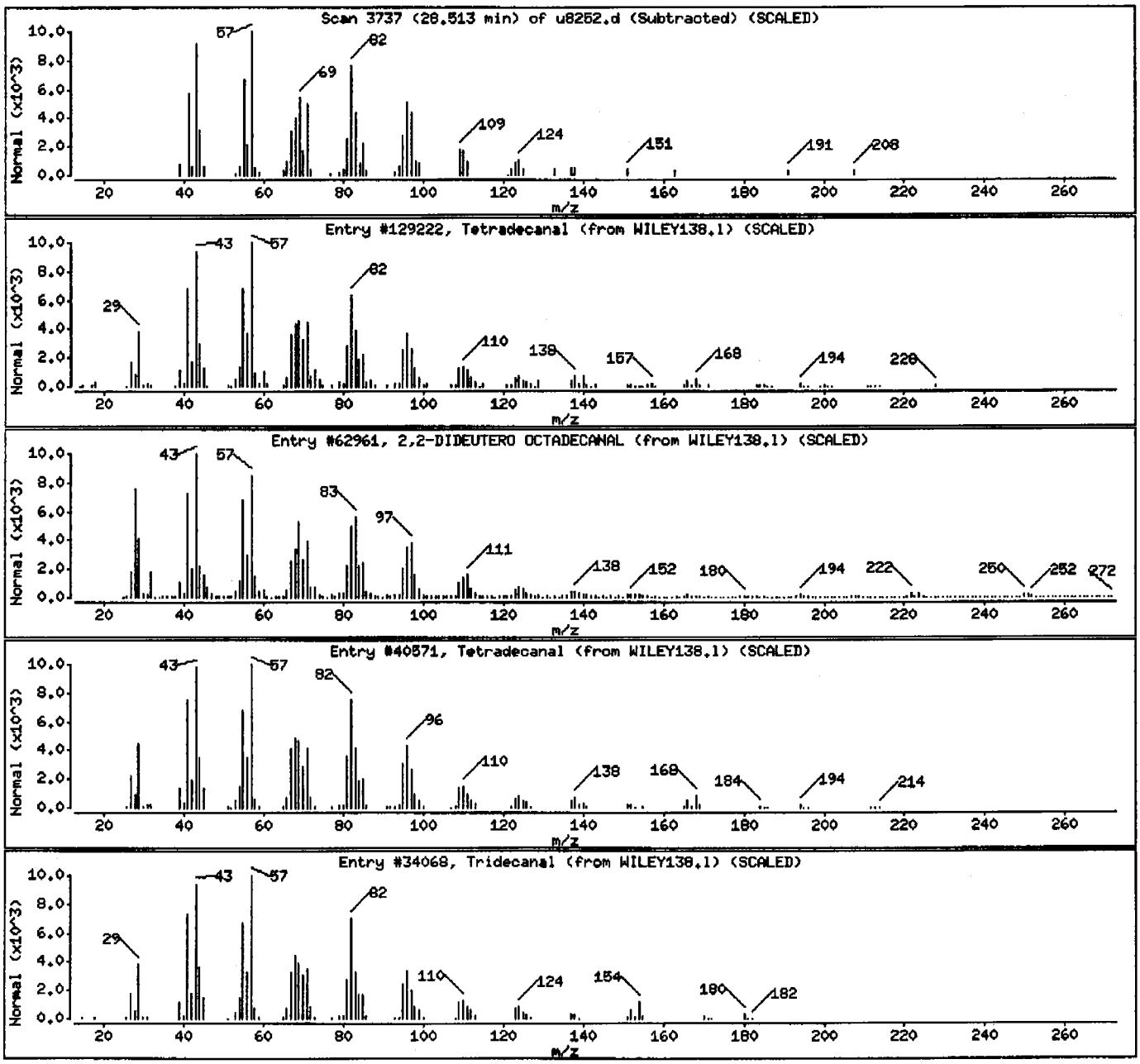
Sample Info: 392323;894384

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldehyde						
Tetradecanal	124-25-4	WILEY138.1	129222	72	C14H28O	212
2,2-DIDEUTERO OCTADECANAL	56555-07-8	WILEY138.1	62961	64	C18H34D2O	268
Tetradecanal	124-25-4	WILEY138.1	40571	59	C14H28O	212
Tridecanal	10486-19-8	WILEY138.1	34068	59	C13H26O	198



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8252.d

Date : 04-DEC-2002 20:08

Client ID: HA-02-07-0-6RE

Instrument: BNAMS4.i

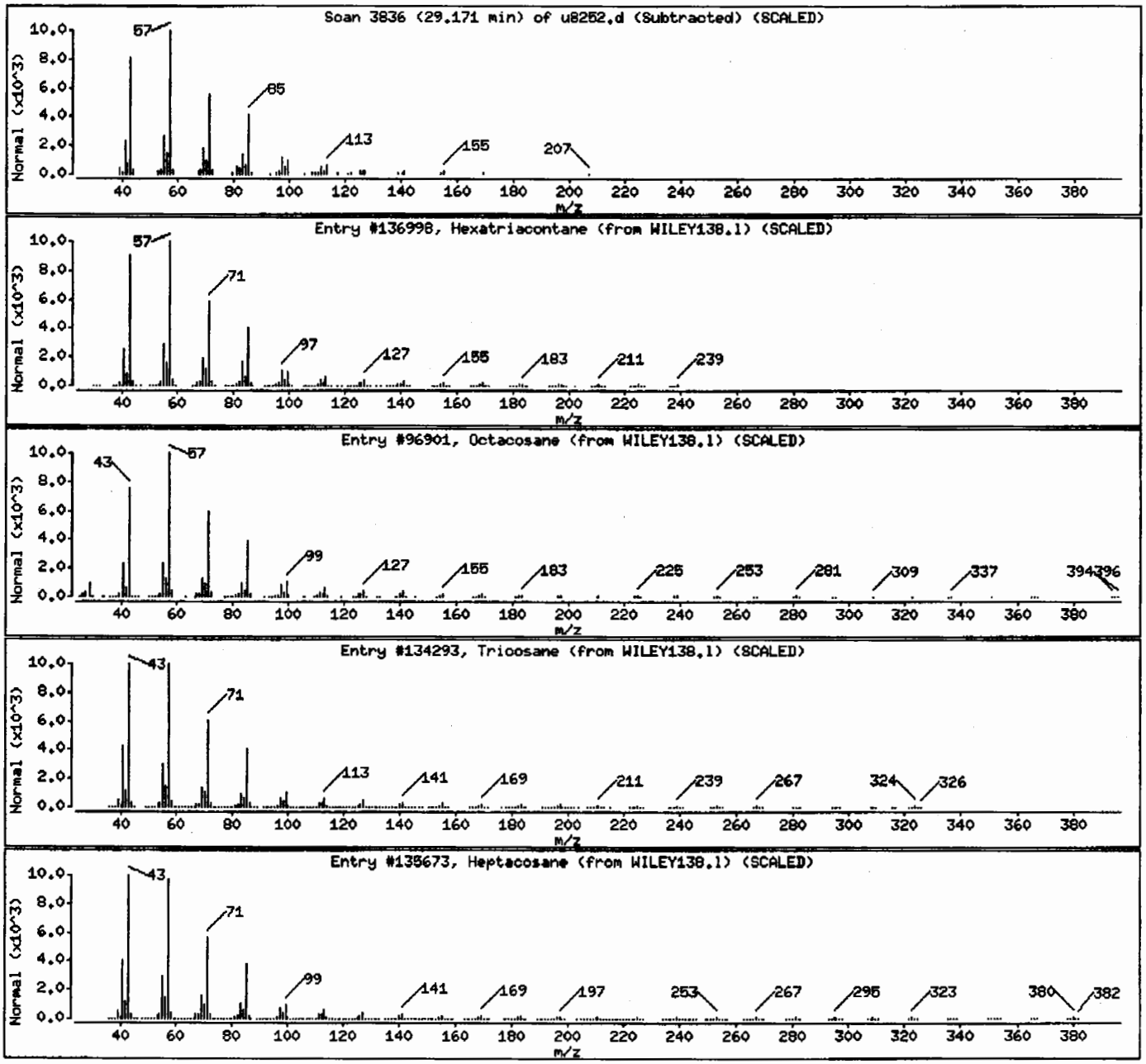
Sample Info: 392323;894384

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexatriacontane	630-06-8	WILEY138.1	136998	91	C36H74	507
Octacosane	630-02-4	WILEY138.1	96901	90	C28H58	394
Tricosane	638-67-5	WILEY138.1	134293	90	C23H48	324
Heptacosane	593-49-7	WILEY138.1	135673	90	C27H56	380



Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/09/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8161.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	380
2-Chlorophenol	ND	380
2-Methylphenol	ND	380
4-Methylphenol	ND	380
2-Nitrophenol	ND	380
2,4-Dimethylphenol	ND	380
2,4-Dichlorophenol	ND	380
4-Chloro-3-methylphenol	ND	380
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2,4-Dinitrophenol	ND	1500
4-Nitrophenol	ND	1500
4,6-Dinitro-2-methylphenol	ND	1500
Pentachlorophenol	ND	1500

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/09/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8161.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	38
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
1,2-Dichlorobenzene	ND	380
bis(2-chloroisopropyl)ether	ND	380
N-Nitroso-di-n-propylamine	ND	38
Hexachloroethane	ND	38
Nitrobenzene	ND	38
Isophorone	ND	380
bis(2-Chloroethoxy)methane	ND	380
1,2,4-Trichlorobenzene	ND	38
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	76
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	ND	380
2,6-Dinitrotoluene	ND	76
3-Nitroaniline	ND	760
Acenaphthene	ND	380
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	76
Diethylphthalate	ND	380
4-Chlorophenyl-phenylether	ND	380
Fluorene	ND	380
4-Nitroaniline	ND	760
N-Nitrosodiphenylamine	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	38
Phenanthrene	9.9J	380
Anthracene	ND	380

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/09/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8161.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 12

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	380
Di-n-butylphthalate	ND	380
Fluoranthene	14 J	380
Pyrene	15 J	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	ND	38
Chrysene	9.8J	380
bis(2-Ethylhexyl)phthalate	180 J	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	14 J	38
Benzo(k)fluoranthene	ND	38
Benzo(a)pyrene	7.7J	38
Indeno(1,2,3-cd)pyrene	ND	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	8.2J	380

Client ID: **HA-01-DUP**
Site: Earle NWS Closure

Lab Sample No: **392324**
Lab Job No: D092

Date Sampled: 11/20/02
Date Received: 11/20/02
Date Extracted: 11/21/02
Date Analyzed: 12/09/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8161.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 11.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	24.44	300	
2. Unknown	26.09	1100	
3. Unknown Alkane	27.83	330	
4. Unknown	29.59	400	
5. Unknown	33.03	400	
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 2530

Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d
Report Date: 10-Dec-2002 10:33

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d
Lab Smp Id: 392324 Client Smp ID: HA-01-DUP
Inj Date : 09-DEC-2002 20:01
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : 392324;888647
Misc Info : D092;SB325F;QA9020
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/8270c1.m
Meth Date : 09-Dec-2002 17:30 asfawa Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLBNAb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	11.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.585	10.562	(0.812)	2807466	74.8787	5700
$ 17 Phenol-d5 (SUR)	99	12.392	12.386	(0.951)	3389575	80.9653	6100
* 79 1,4-Dichlorobenzene-d4	152	13.028	13.030	(1.000)	788797	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	13.985	13.990	(0.919)	1286674	40.9345	3100
* 80 Naphthalene-d8	136	15.210	15.214	(1.000)	3220445	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.008	17.014	(0.937)	2419154	40.3108	3000
* 82 Acenaphthene-d10	164	18.150	18.155	(1.000)	1844383	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.457	19.464	(1.072)	755356	79.0557	6000
* 83 Phenanthrene-d10	188	20.622	20.626	(1.000)	3586433	40.0000	
52 Phenanthrene	178	20.655	20.673	(1.002)	11301	0.13134	9.9(a)
56 Fluoranthene	202	22.626	22.641	(1.097)	16760	0.17900	14(a)
57 Pyrene	202	23.009	23.024	(0.918)	16317	0.19913	15(a)
$ 78 Terphenyl-d14 (SUR)	244	23.247	23.248	(0.928)	2134314	41.5949	3100
63 bis(2-Ethylhexyl)phthalate	149	24.988	25.001	(0.997)	124194	2.31468	180(a)

Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d
Report Date: 10-Dec-2002 10:33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 81 Chrysene-d12	240	25.055	25.068	(1.000)	2390189	40.0000	
62 Chrysene	228	25.089	25.122	(1.001)	7866	0.12908	9.8(a)
65 Benzo(b)fluoranthene	252	27.459	27.505	(0.958)	12144	0.18508	14(a)
67 Benzo(a)pyrene	252	28.417	28.486	(0.992)	6100	0.10164	7.7(a)
* 84 Perylene-d12	264	28.657	28.659	(1.000)	2315895	40.0000	
70 Benzo(g,h,i)perylene	276	34.132	34.314	(1.191)	7135	0.10789	8.2(aM)

QC Flag Legend

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

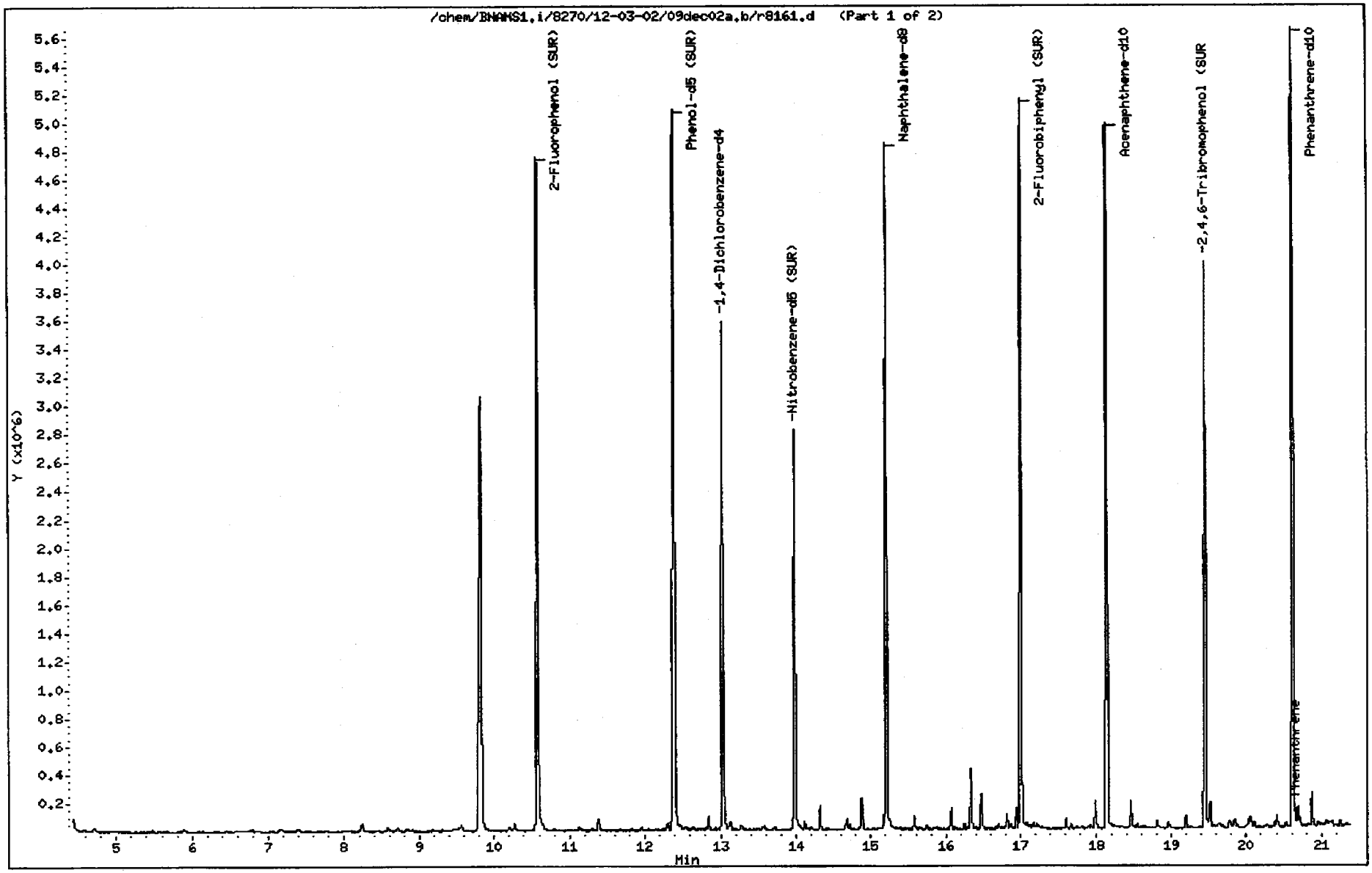
Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d
Date : 09-DEC-2002 20:01
Client ID: HA-01-DUP
Sample Info: 392324;888647

Instrument: BNAMS1.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25



903

STL Edison

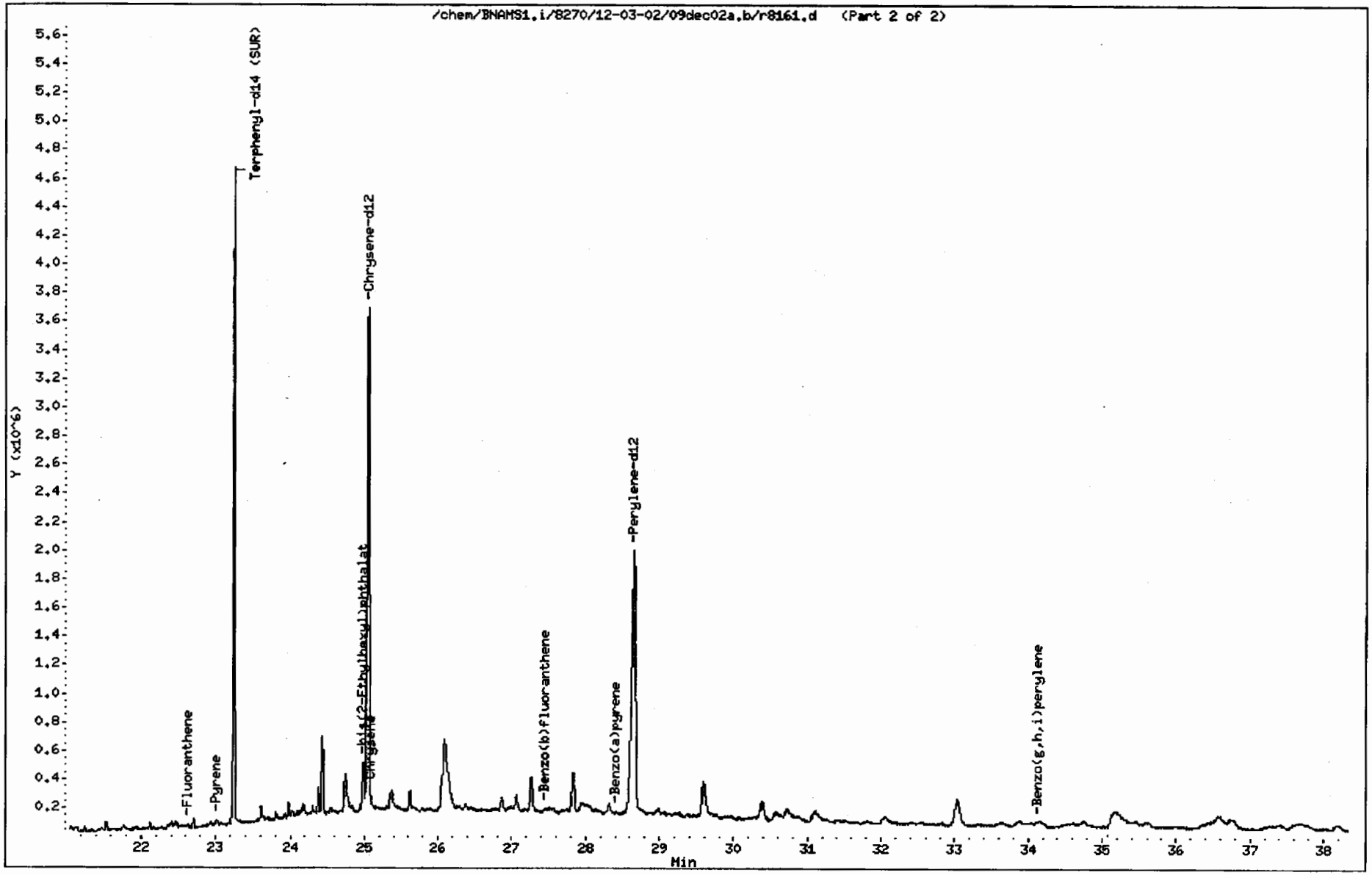
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d
Date : 09-DEC-2002 20:01
Client ID: HA-01-DUP
Sample Info: 392324;888647

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



904

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

Sample Info: 392324;888647

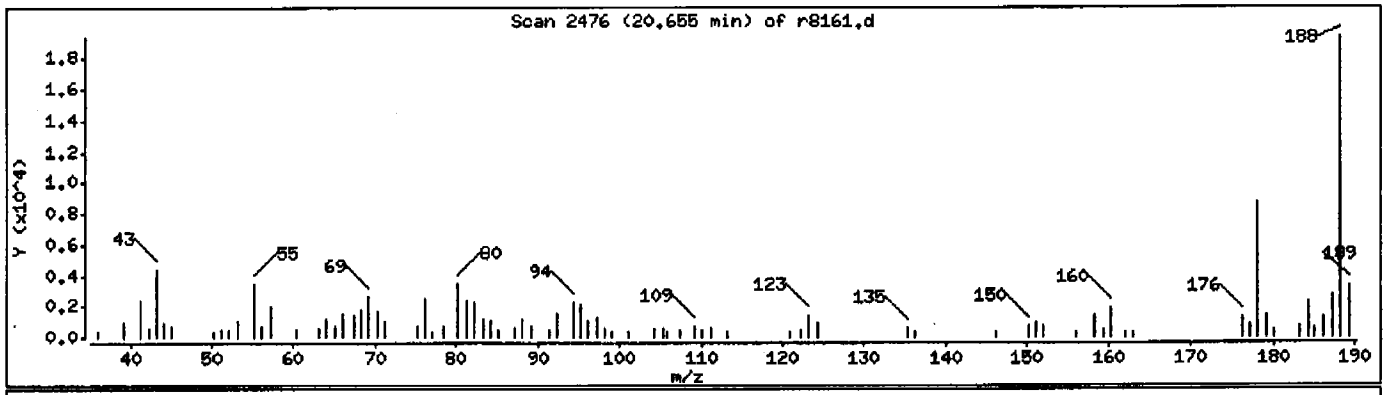
Operator: BNAMS 4

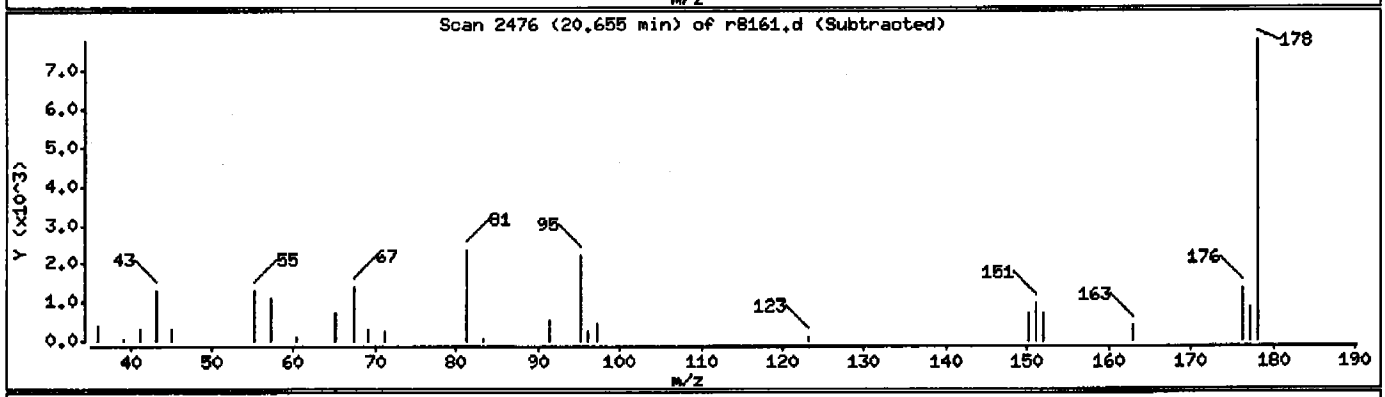
Column phase: DB-5

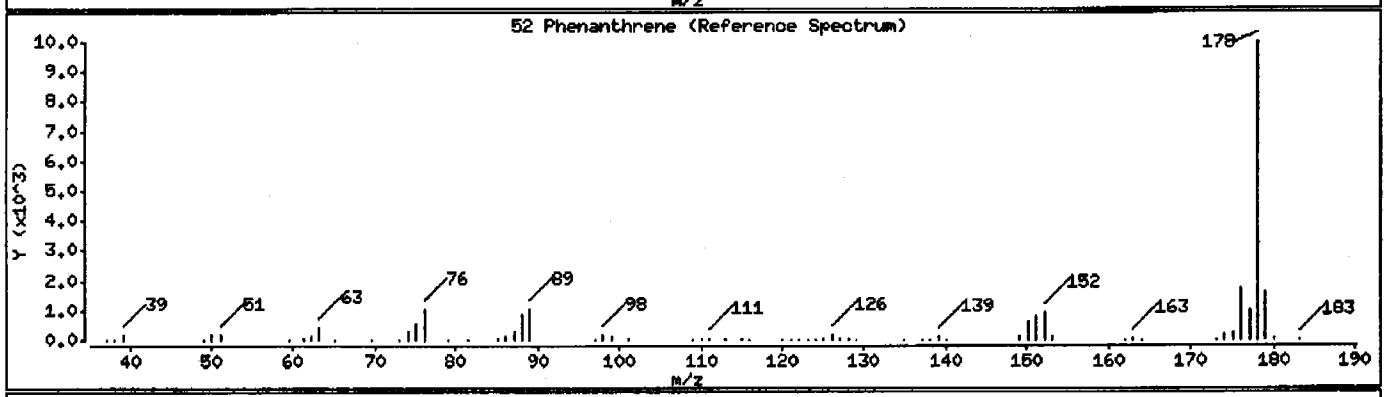
Column diameter: 0.25

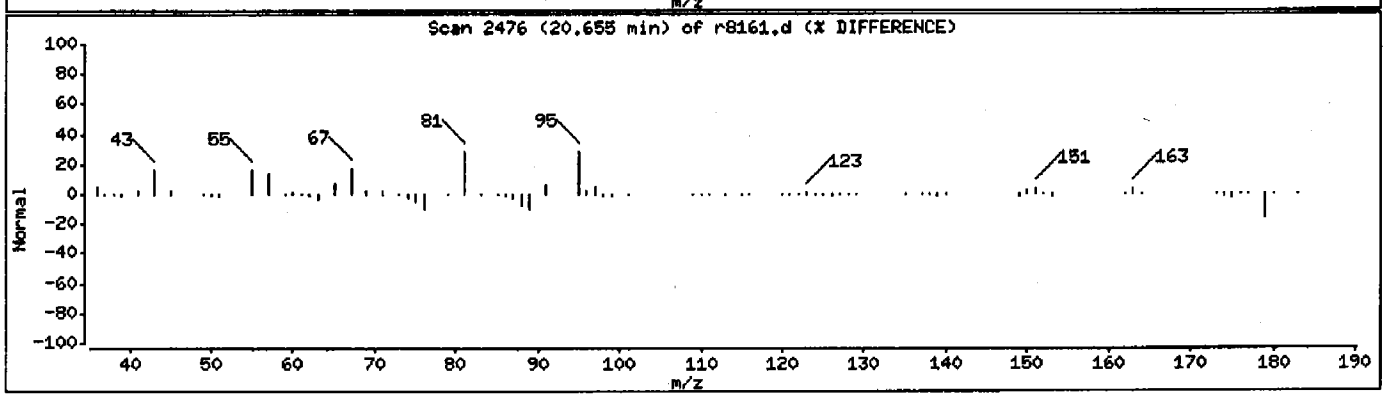
52 Phenanthrene

Concentration: 9.9 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

Sample Info: 392324;888647

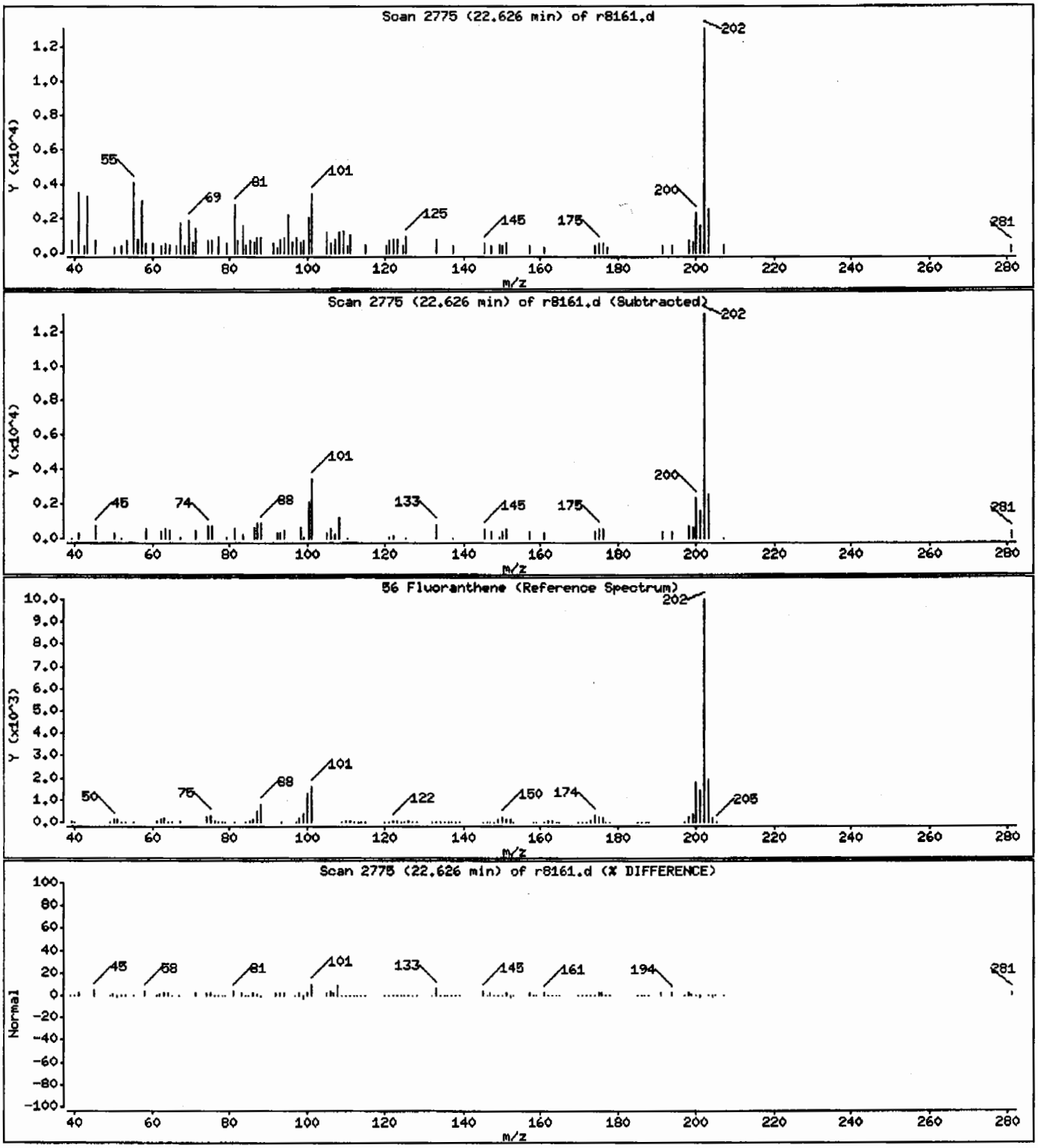
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 14 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

Sample Info: 392324;888647

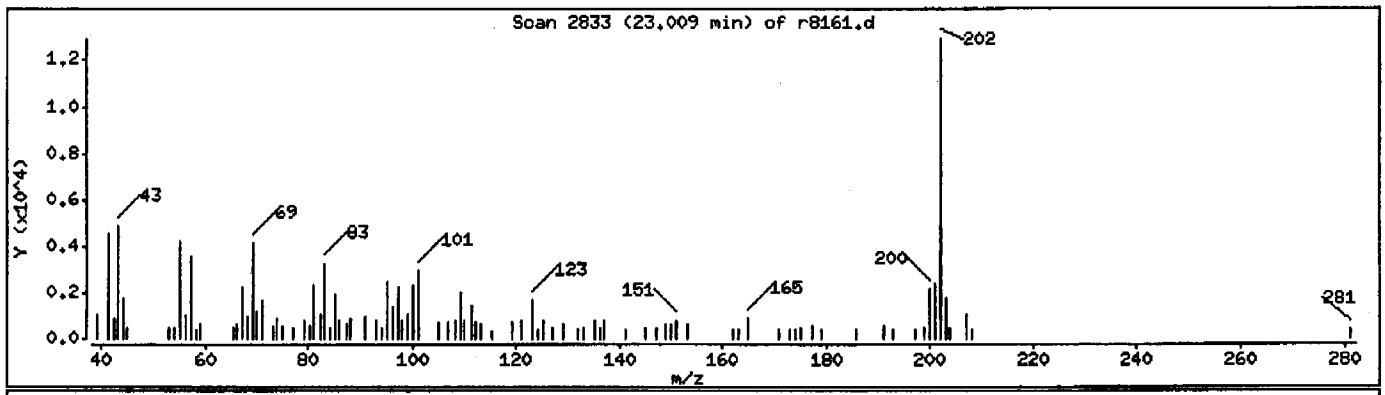
Operator: BNAMS 4

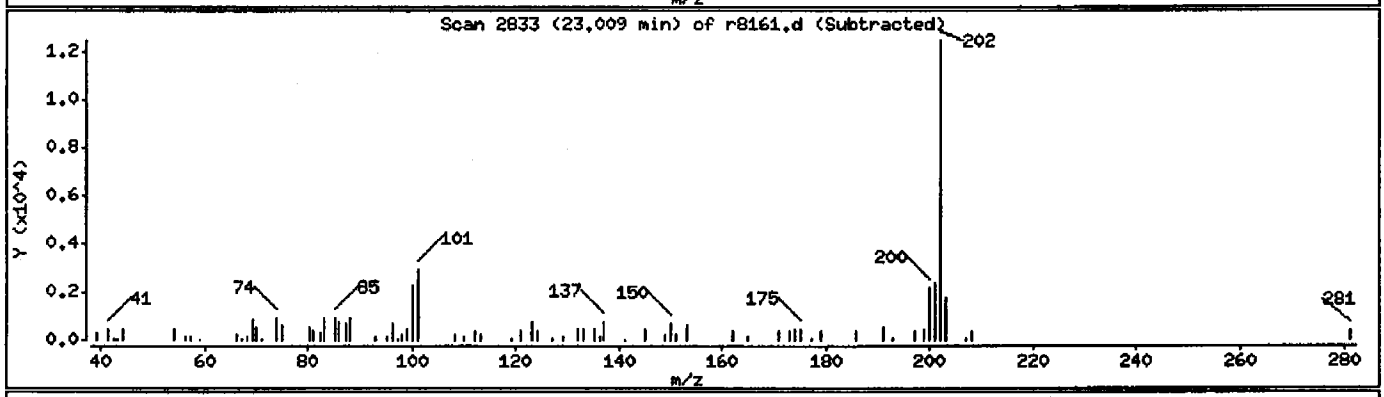
Column phase: DB-5

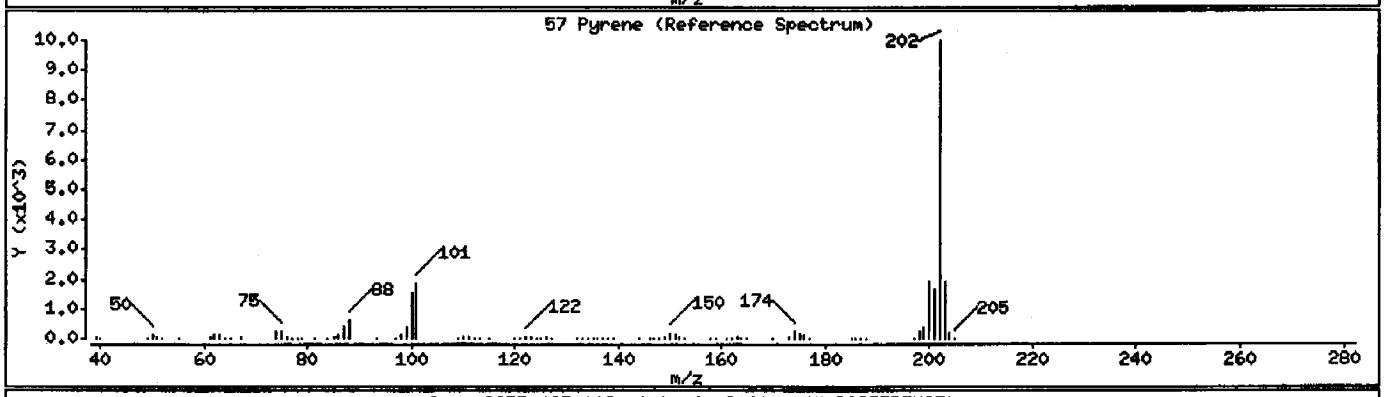
Column diameter: 0.25

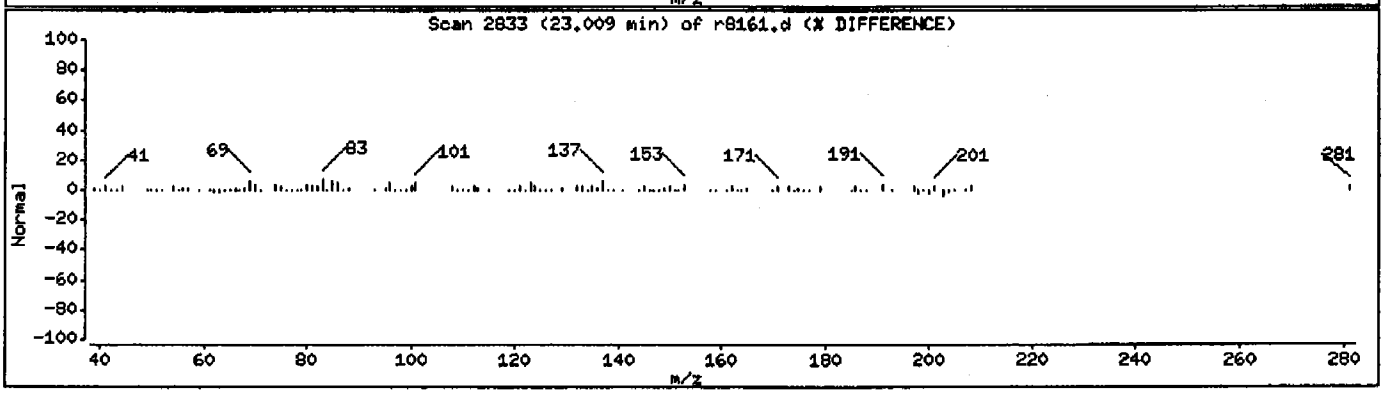
57 Pyrene

Concentration: 15 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

Sample Info: 392324;888647

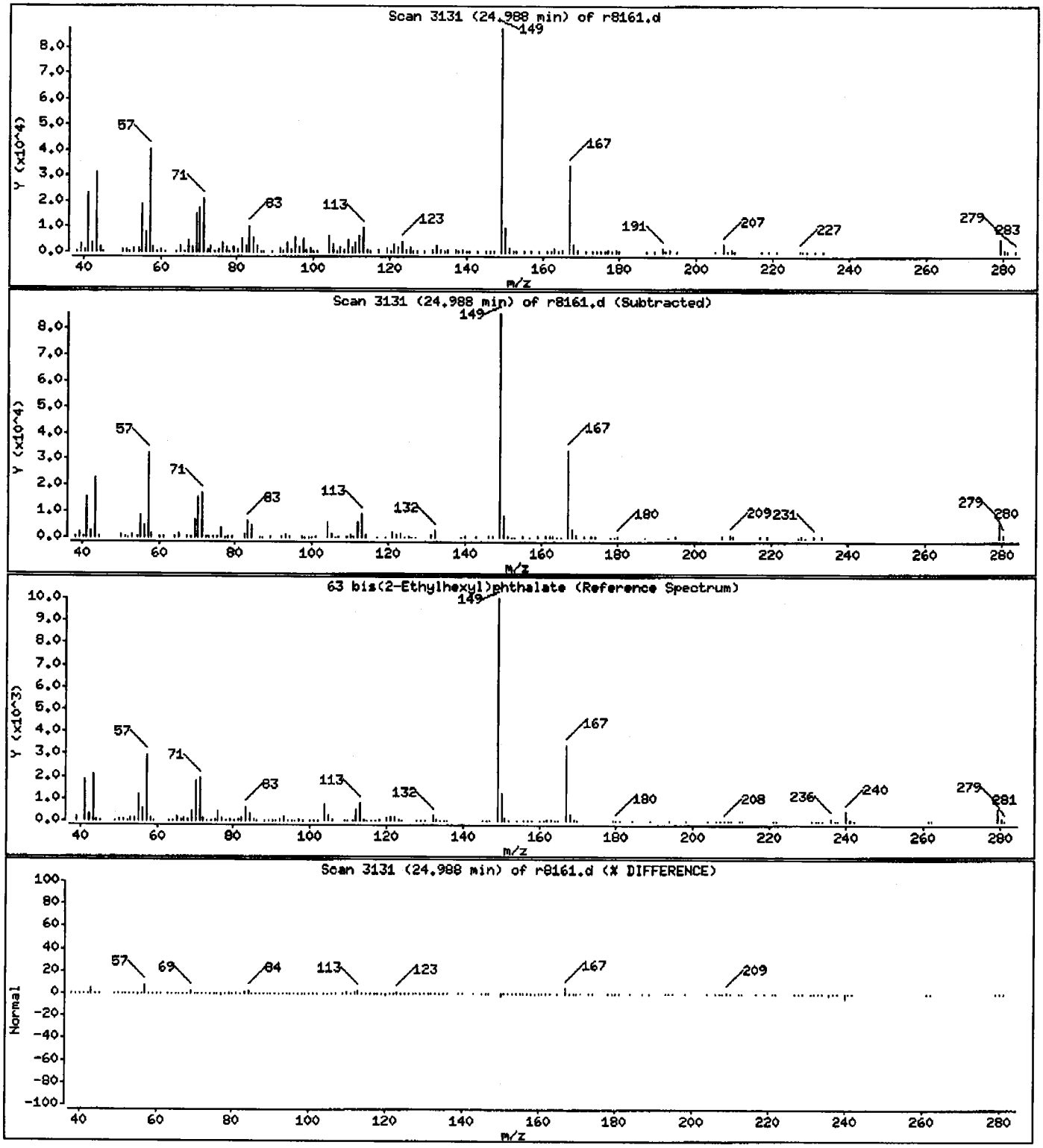
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

63 bis(2-Ethylhexyl)phthalate

Concentration: 180 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

Sample Info: 392324;888647

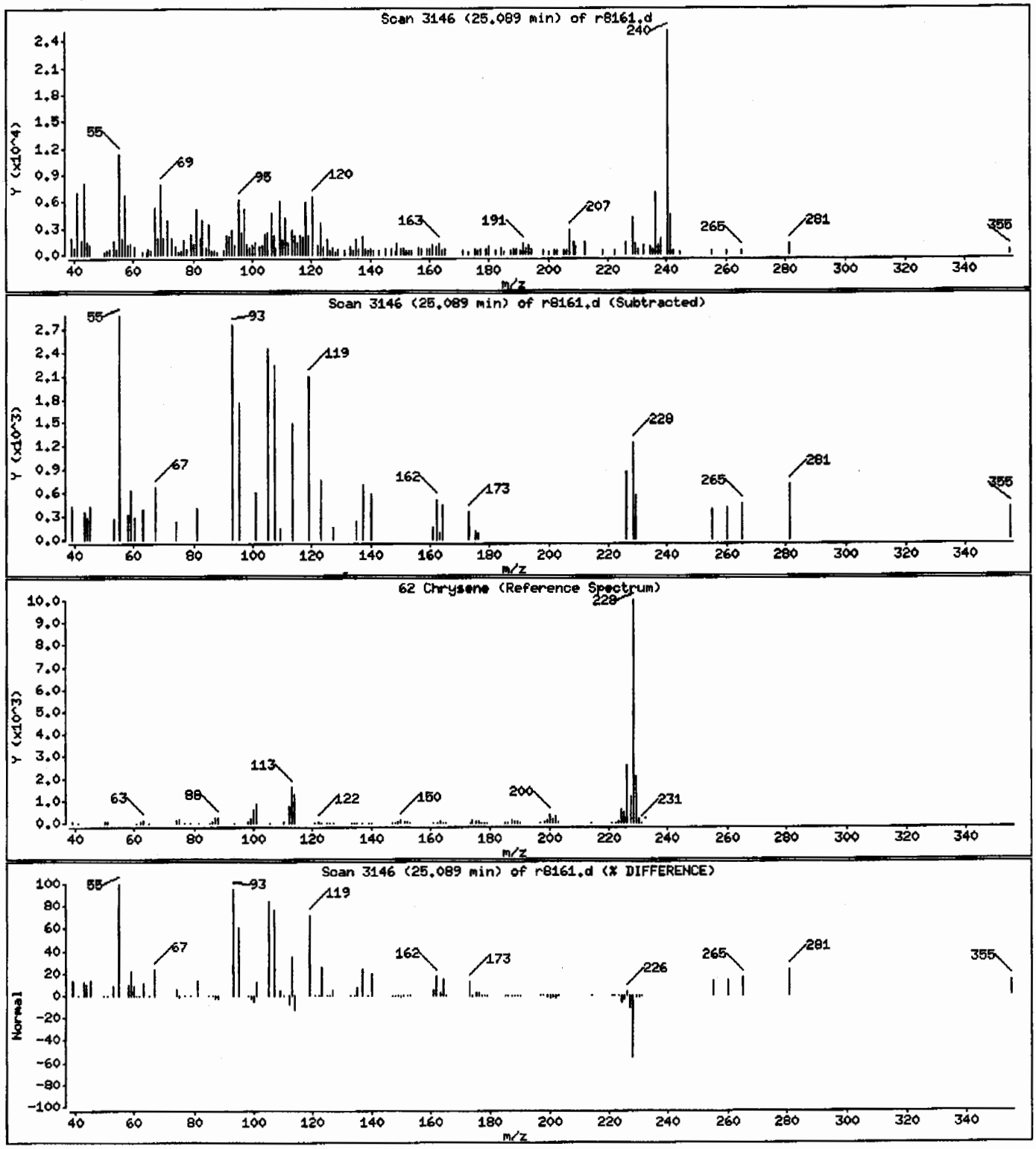
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

62 Chrysene

Concentration: 9.8 ug/Kg



Data File: /chem/BNAHS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAHS1.i

Sample Info: 392324;888647

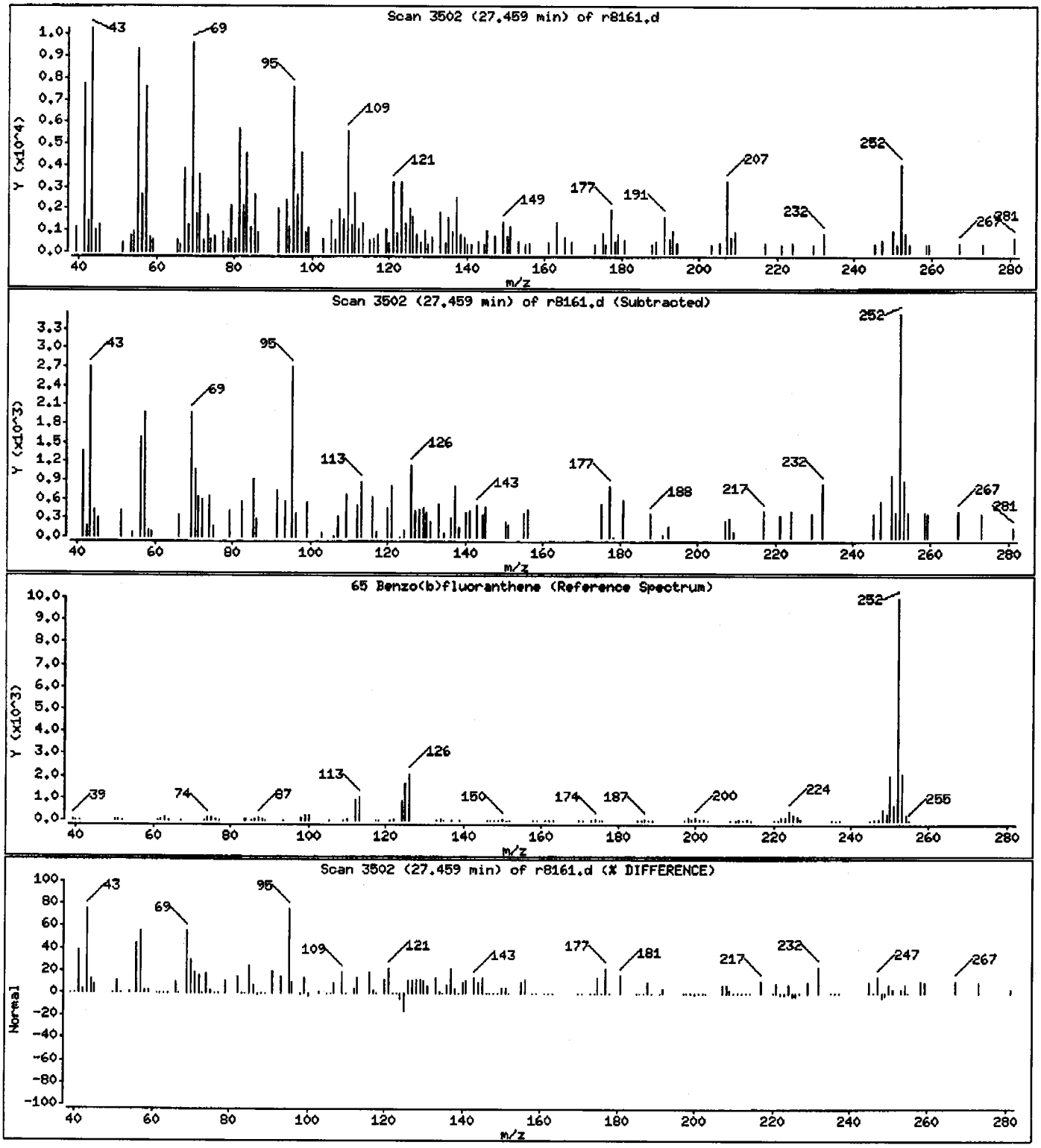
Operator: BNAHS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 14 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

Sample Info: 392324;888647

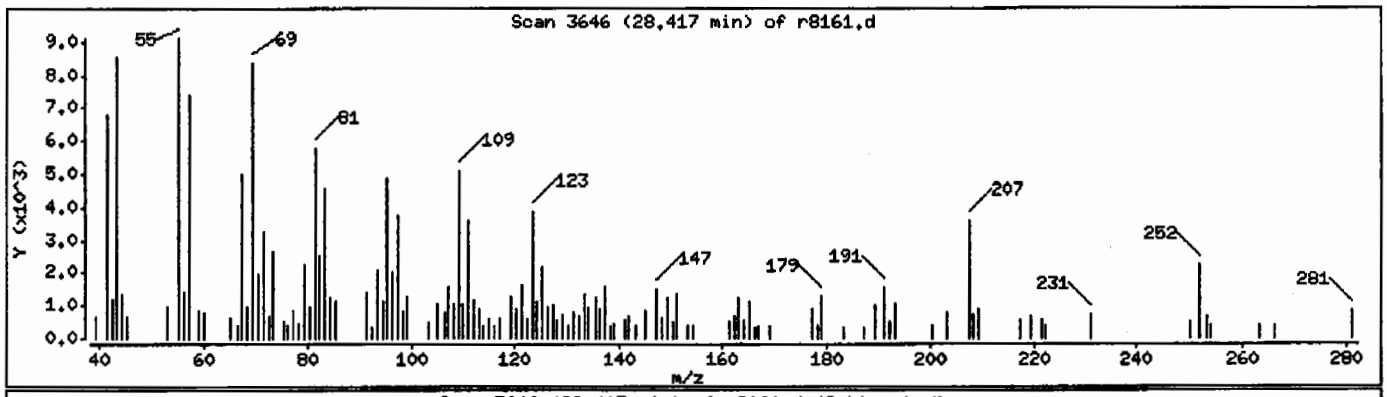
Operator: BNAMS 4

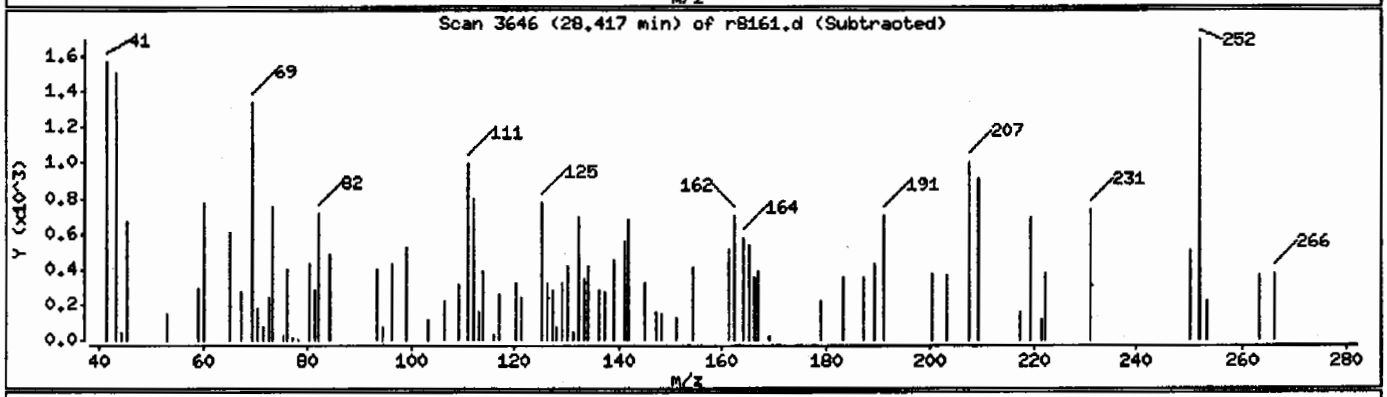
Column phase: DB-5

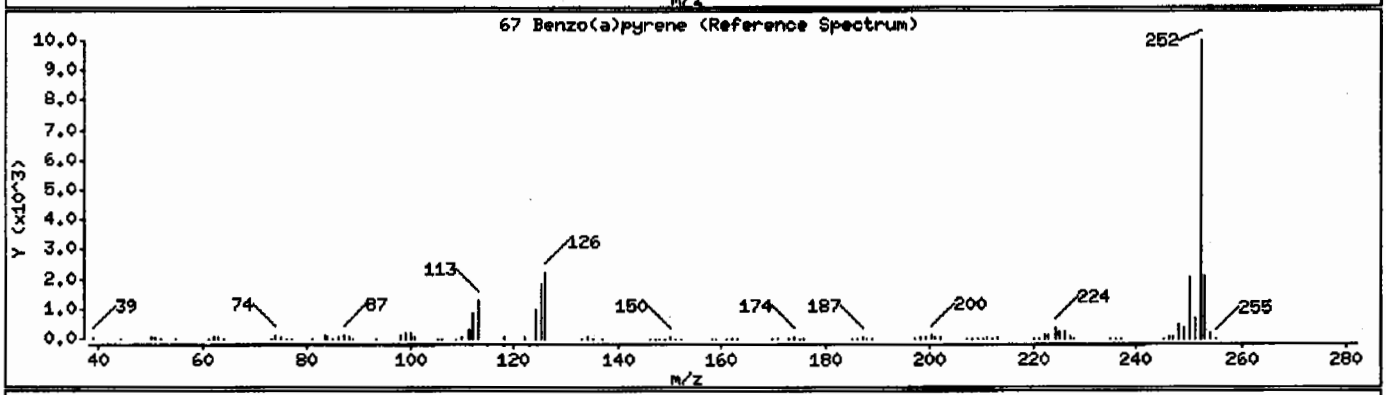
Column diameter: 0.25

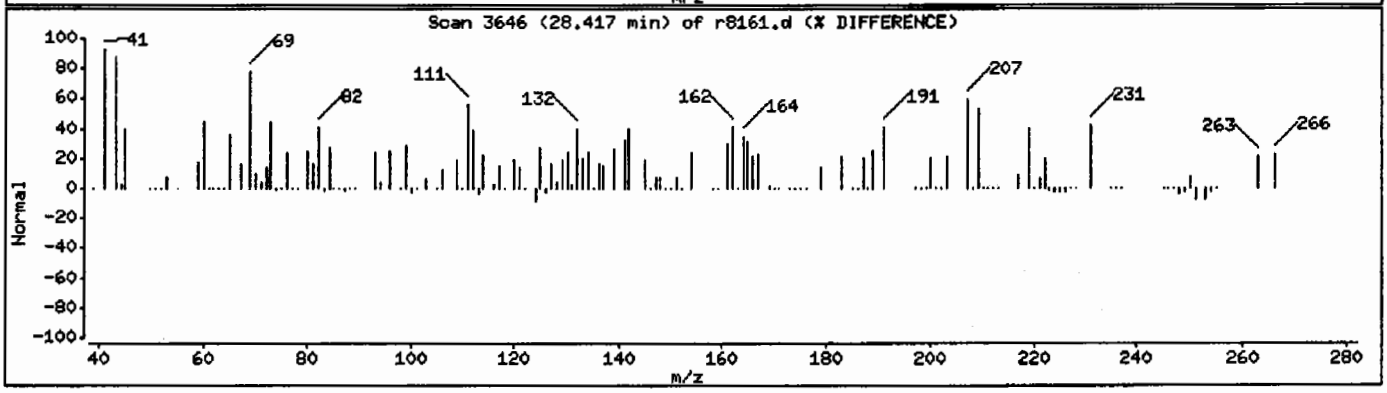
67 Benzo(a)pyrene

Concentration: 7.7 ug/Kg









Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

Sample Info: 392324;888647

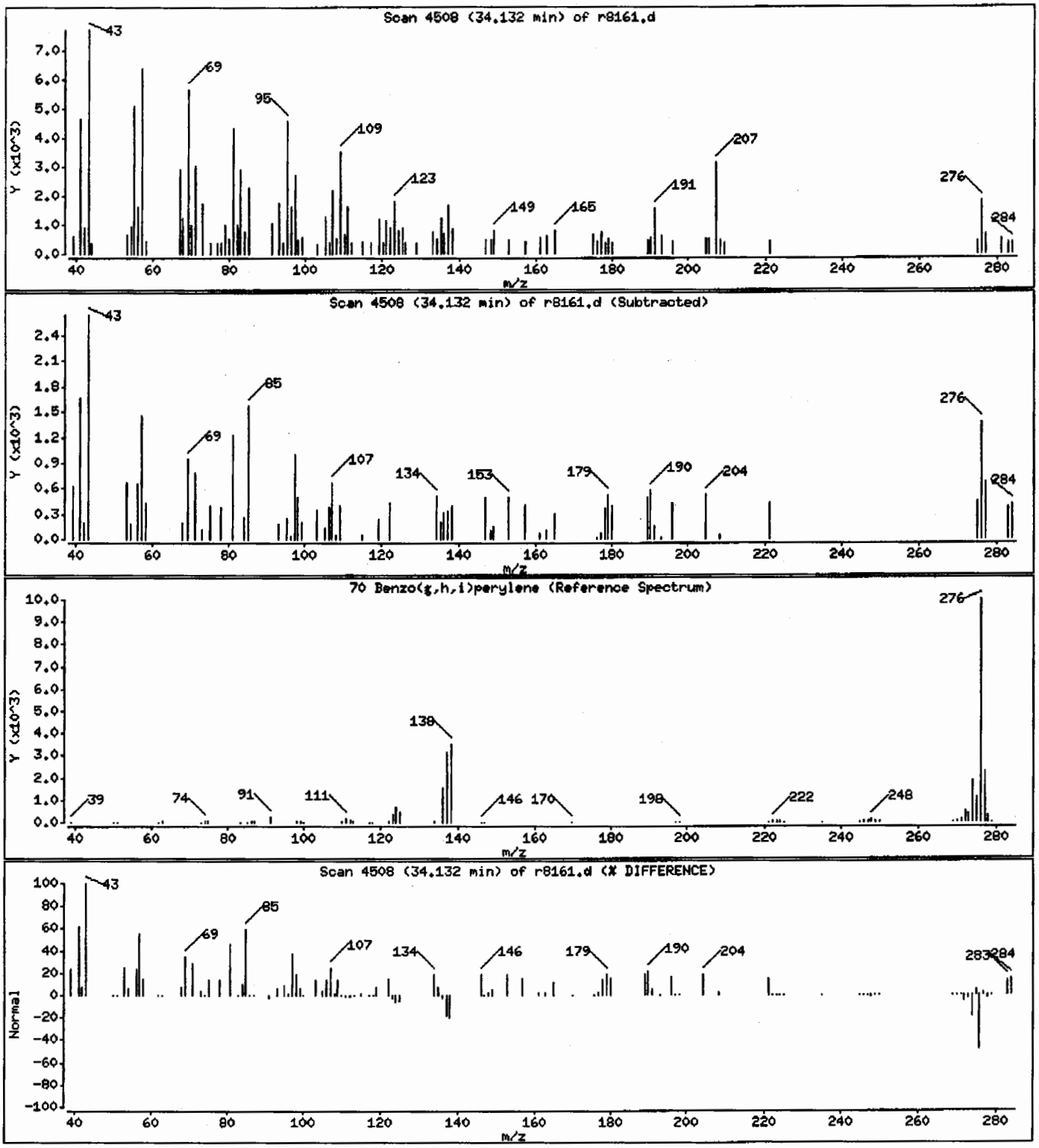
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 8.2 ug/Kg



Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

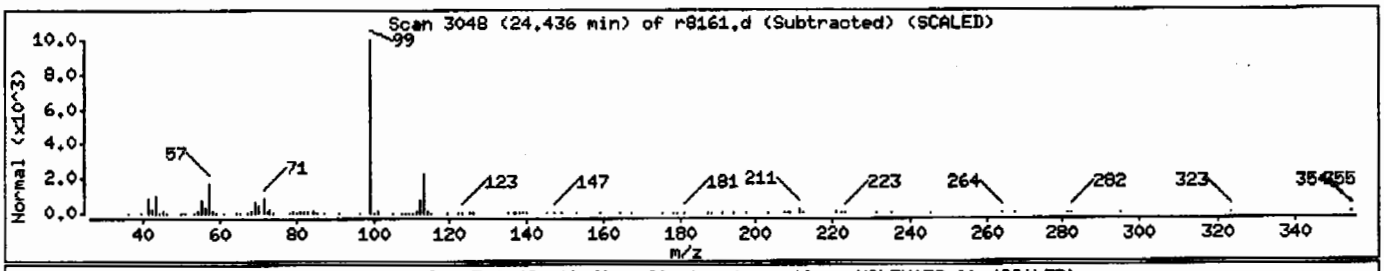
Sample Info: 392324;888647

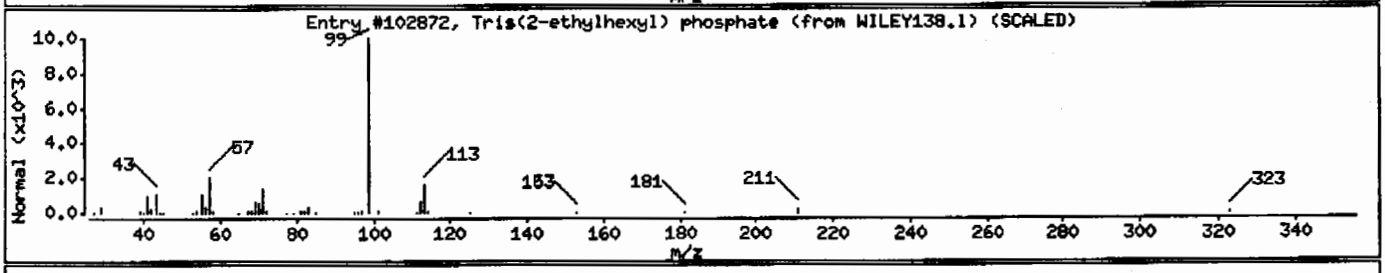
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tris(2-ethylhexyl) phosphate	78-42-2	WILEY138.1	102872	80	C24H51O4P	434





Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

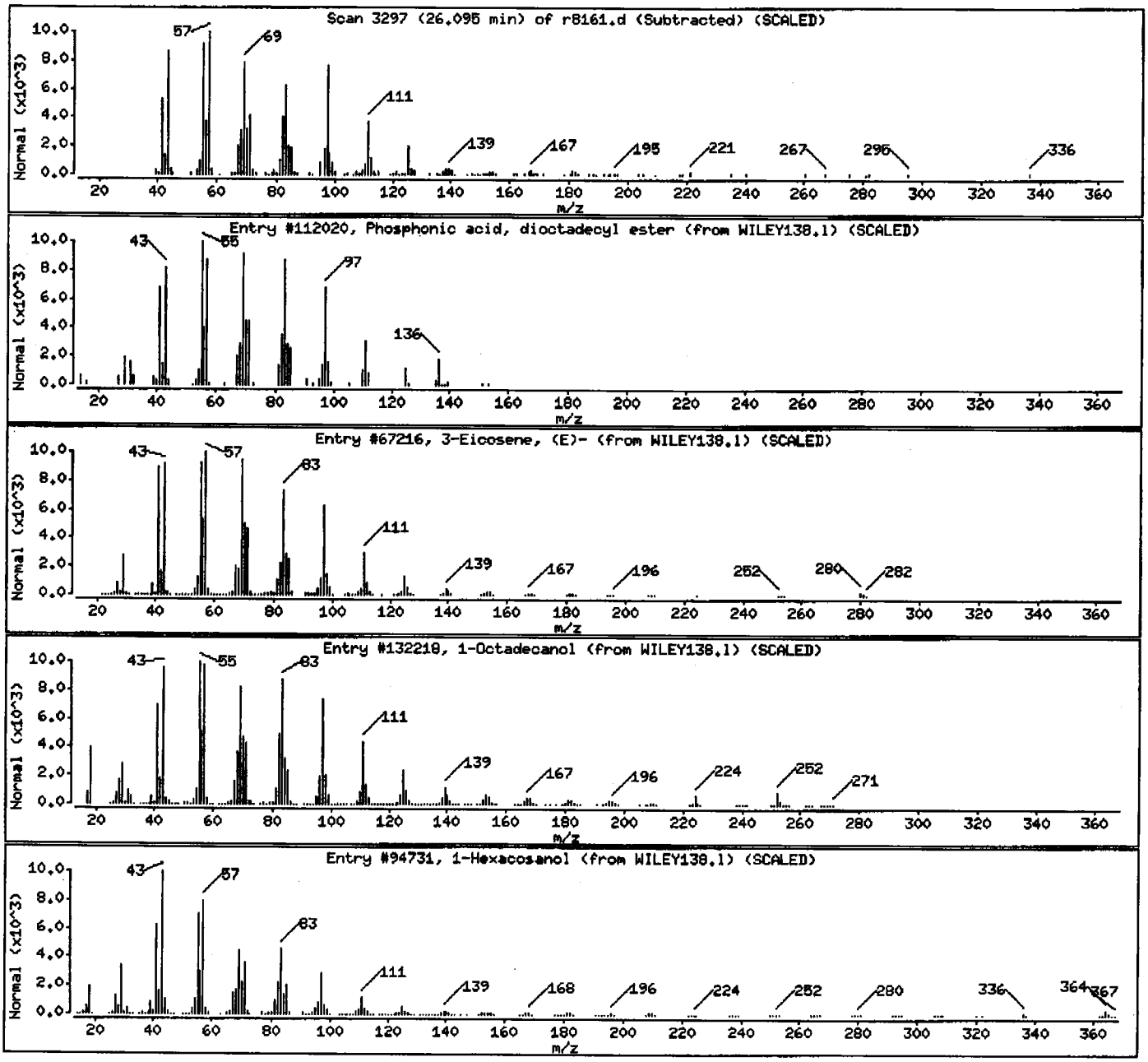
Sample Info: 392324;888647

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phosphonic acid, dioctadecyl ester	19047-85-9	WILEY138.1	112020	81	C36H7503P	587
3-Eicosene, (E)-	74685-33-9	WILEY138.1	67216	68	C20H40	280
1-Octadecanol	112-92-5	WILEY138.1	132218	52	C18H380	270
1-Hexacosanol	506-52-5	WILEY138.1	94731	49	C26H540	382



Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

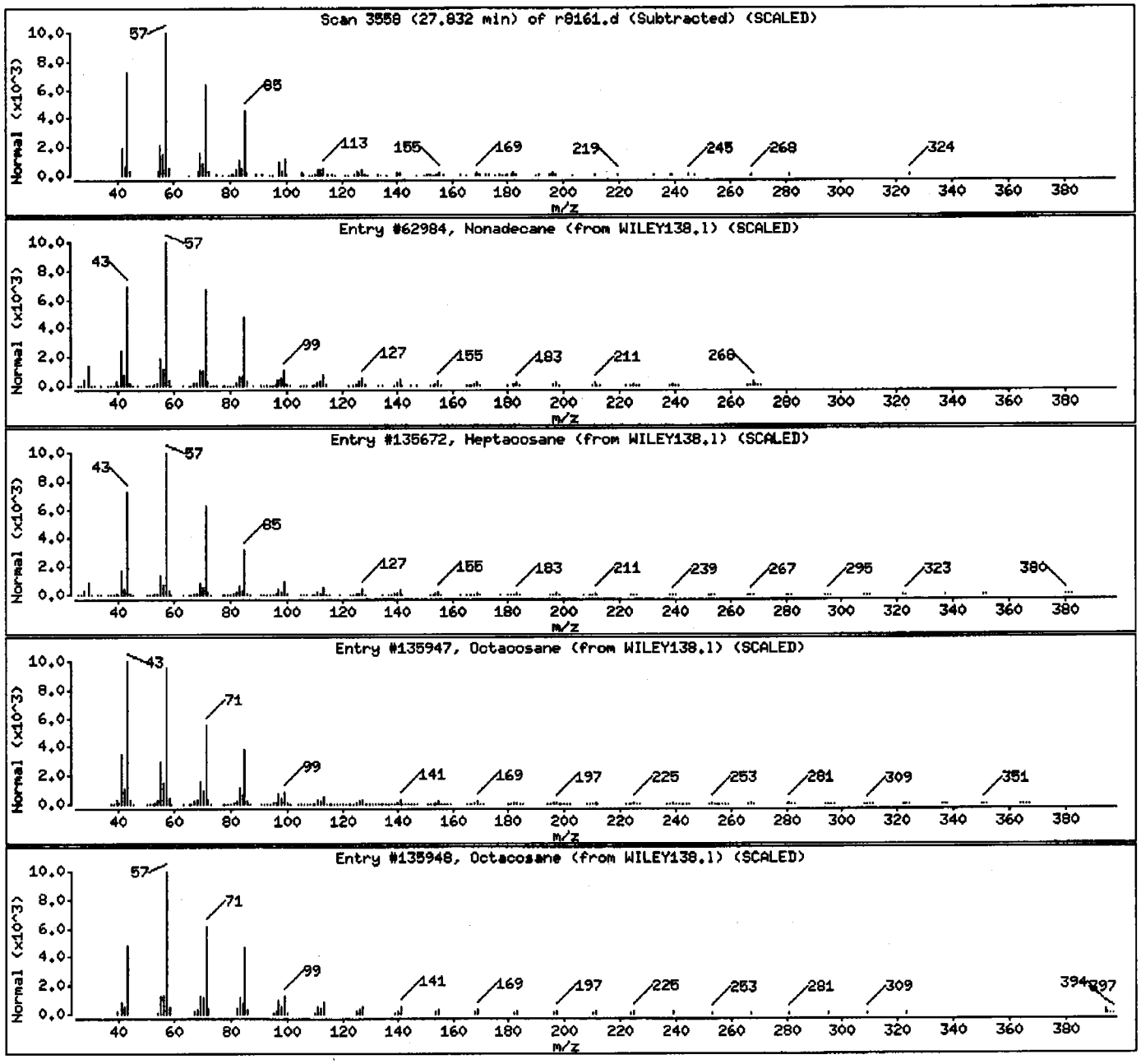
Sample Info: 392324;888647

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Nonadecane	629-92-5	WILEY138.1	62984	93	C19H40	268
Heptacosane	593-49-7	WILEY138.1	135672	91	C27H56	380
Octacosane	630-02-4	WILEY138.1	135947	91	C28H58	394
Octacosane	630-02-4	WILEY138.1	135948	90	C28H58	394



Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

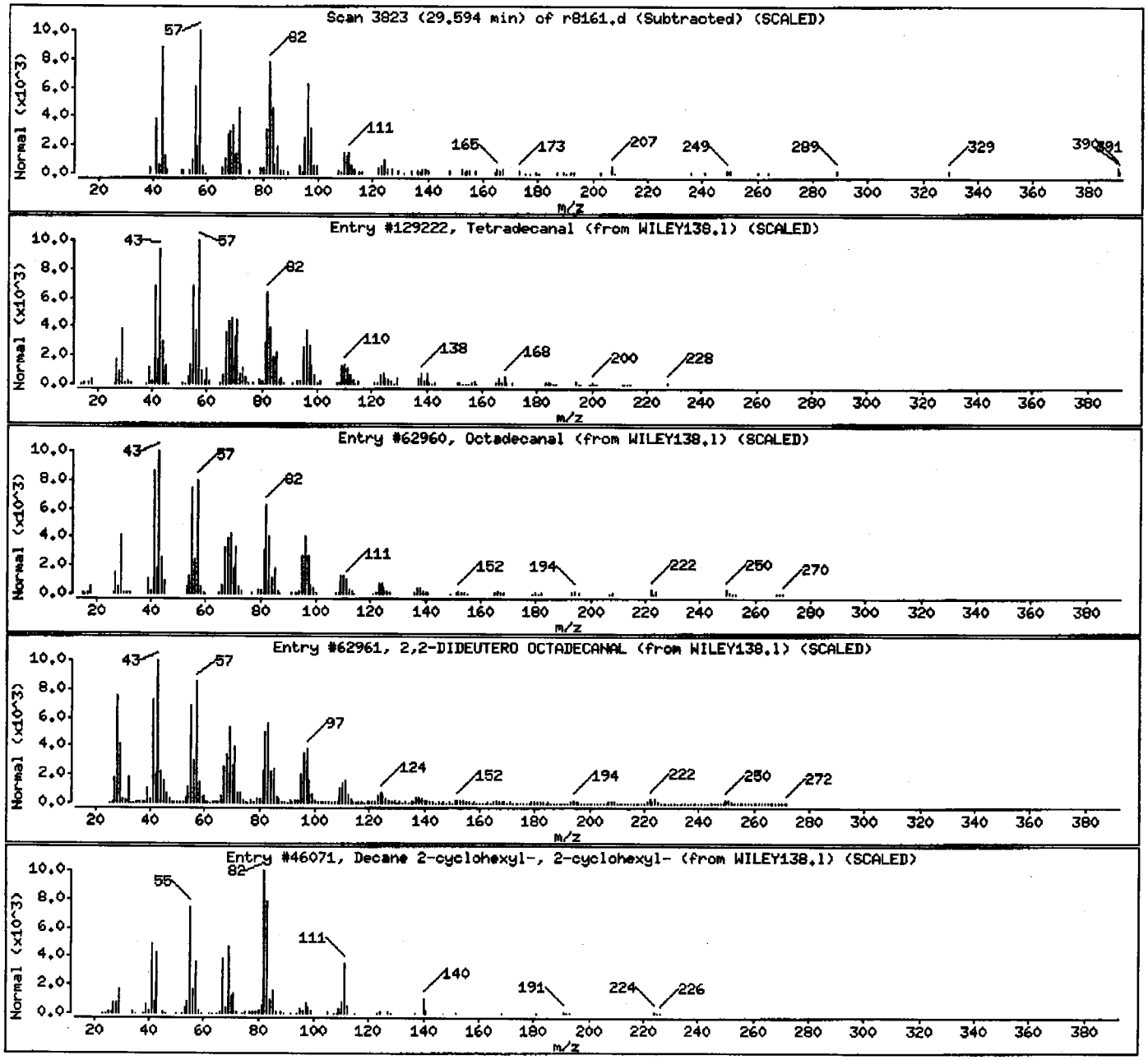
Sample Info: 392324;888647

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetradecanal	124-25-4	WILEY138.1	129222	80	C14H28O	212
Octadecanal	638-66-4	WILEY138.1	62960	72	C18H36O	268
2,2-DIDEUTERO OCTADECANAL	56555-07-8	WILEY138.1	62961	52	C18H34D2O	268
Decane 2-cyclohexyl-, 2-cyclohexyl-	13151-73-0	WILEY138.1	46071	43	C16H32	224



Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8161.d

Date : 09-DEC-2002 20:01

Client ID: HA-01-DUP

Instrument: BNAMS1.i

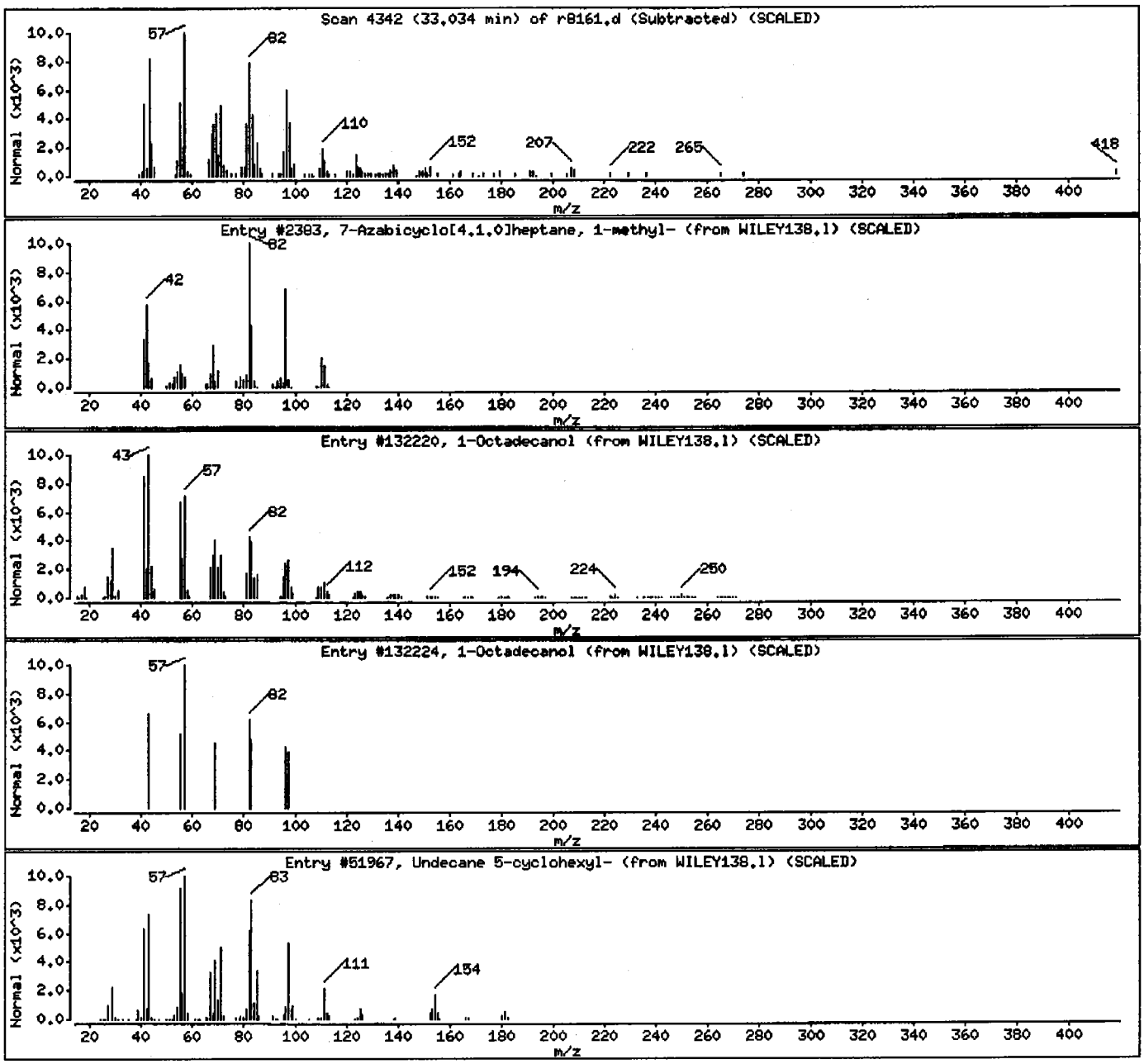
Sample Info: 392324;888647

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
7-Azabicyclo[4.1.0]heptane, 1-methyl-	25022-25-7	WILEY138.1	2383	58	C7H13N	111
1-Octadecanol	112-92-5	WILEY138.1	132220	47	C18H380	270
1-Octadecanol	112-92-5	WILEY138.1	132224	38	C18H380	270
Undecane 5-cyclohexyl-	13151-80-9	WILEY138.1	51967	38	C17H34	238



Tuning Results Summary

SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: R8050 DFTPP Injection Date: 12/03/02

Instrument ID: BNAMS1 DFTPP Injection Time: 0952

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	35.8	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	48.6	
70	Less than 2.0% of mass 69	0.4	(0.8)1
127	40.0 - 60.0% of mass 198	42.9	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.2	
275	10.0 - 30.0% of mass 198	18.1	
365	Greater than 1.0% of mass 198	1.39	
441	0.0 - 100.0% of mass 443	9.1	(75.6)2
442	40.0 - 110.0% of mass 198	61.7	
443	17.0 - 23.0% of mass 442	12.0	(19.5)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	RSTD050	RSTD050	R8051	12/03/02	1016
02	RSTD120	RSTD120	R8052	12/03/02	1103
03	RSTD005	RSTD005	R8053	12/03/02	1149
04	RSTD080	RSTD080	R8054	12/03/02	1236
05	RSTD020	RSTD020	R8055	12/03/02	1323
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

page 1 of 1

Data File: /chem/BNAMS1.i/8270/12-03-02/03dec02.b/r8050.d

Date : 03-DEC-2002 09:52

Client ID:

Instrument: BNAMS1.i

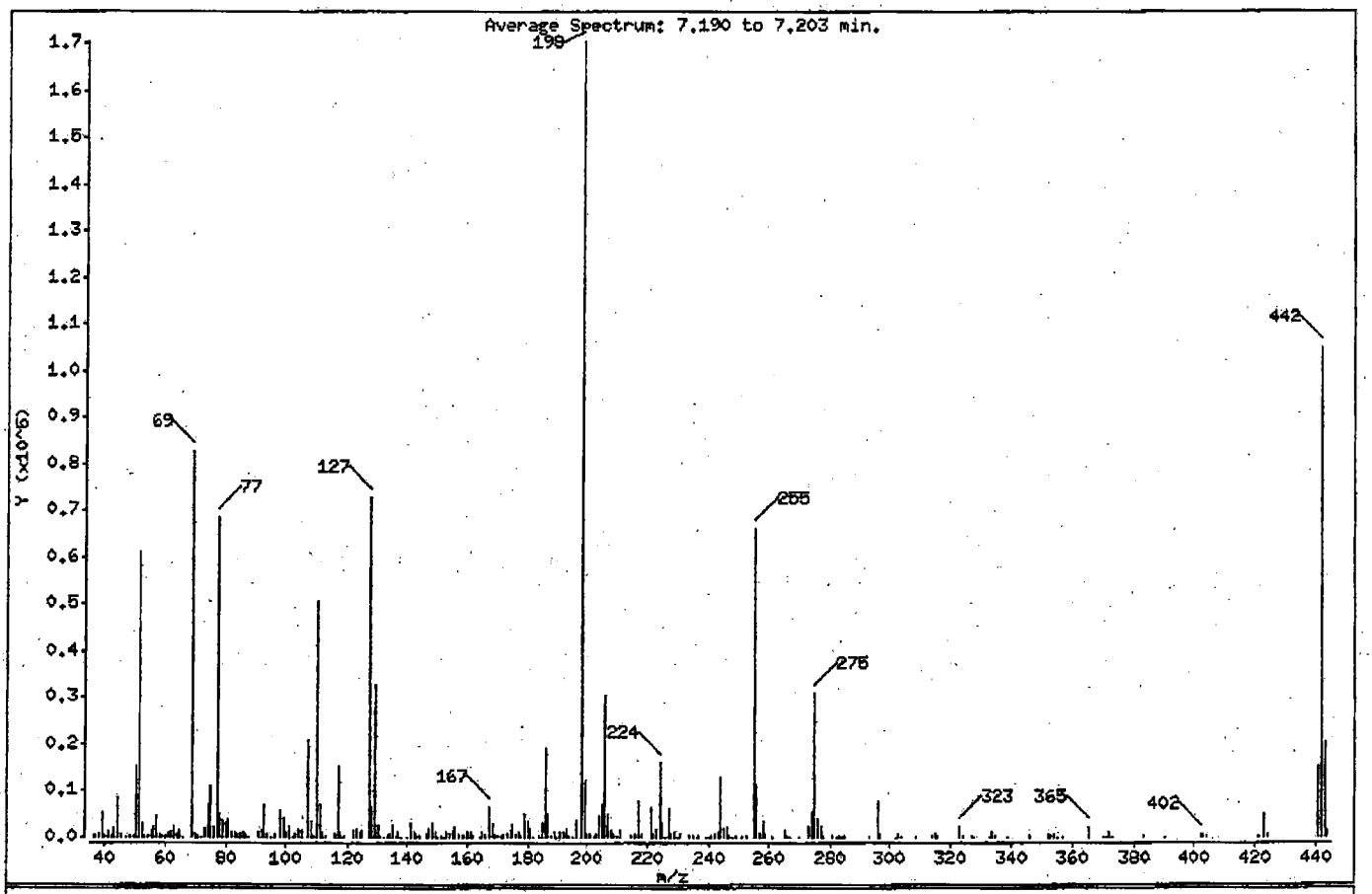
Sample Info: RDFT337

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	35.84
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	48.59
70	Less than 2.00% of mass 69	0.40 (0.82)
127	40.00 - 60.00% of mass 198	42.86
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.16
275	10.00 - 30.00% of mass 198	18.09
365	Greater than 1.00% of mass 198	1.39
441	0.01 - 100.00% of mass 443	9.08 (75.61)
442	40.00 - 110.00% of mass 198	61.69
443	17.00 - 23.00% of mass 442	12.00 (19.46)

Data File: /chem/BNAMS1.i/8270/12-03-02/03dec02.b/r8050.d

Date : 03-DEC-2002 09:52

Client ID:

Instrument: BNAMS1.i

Sample Info: RDFT337

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: r8050.d
Spectrum: Average Spectrum: 7.190 to 7.203 min.
Location of Maximum: 198.00
Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	536	107.00	20704	179.00	5225	256.00	11405
37.00	373	108.00	3639	180.00	3697	257.00	721
38.00	622	109.00	570	181.00	1882	258.00	3408
39.00	5423	110.00	50408	182.00	103	259.00	684
40.00	449	111.00	7149	184.00	396	261.00	124
41.00	1244	112.00	1365	185.00	2964	265.00	1406
42.00	576	113.00	309	186.00	19336	266.00	252
43.00	1915	116.00	684	187.00	5008	267.00	123
44.00	8457	117.00	15342	188.00	567	270.00	194
45.00	689	118.00	1052	189.00	1160	273.00	2161
47.00	102	119.00	228	190.00	112	274.00	5373
48.00	267	122.00	1583	191.00	989	275.00	30848
49.00	585	123.00	1941	192.00	1317	276.00	3999
50.00	15308	124.00	1181	193.00	1787	277.00	2326
51.00	61104	125.00	1439	194.00	572	278.00	420
52.00	3222	127.00	73080	195.00	153	281.00	271
53.00	368	128.00	6614	196.00	3844	283.00	379
54.00	531	129.00	32808	198.00	170496	284.00	133
55.00	1646	130.00	2914	199.00	12215	285.00	505
56.00	2369	131.00	539	200.00	767	293.00	507
57.00	4861	132.00	139	201.00	766	296.00	7691
58.00	673	133.00	519	202.00	214	297.00	861
59.00	222	134.00	946	203.00	841	302.00	103
60.00	246	135.00	2552	204.00	4701	303.00	896
61.00	928	136.00	580	205.00	7186	304.00	102
62.00	1020	137.00	1000	206.00	30384	309.00	105
63.00	2274	138.00	109	207.00	4963	314.00	216
64.00	692	140.00	157	208.00	1491	315.00	680
65.00	1586	141.00	3093	209.00	645	316.00	364
66.00	101	142.00	1069	210.00	475	323.00	2264
69.00	82856	143.00	771	211.00	1437	324.00	288
70.00	677	144.00	232	215.00	285	327.00	241
71.00	281	146.00	716	216.00	634	328.00	144
72.00	141	147.00	1777	217.00	7959	333.00	106
73.00	2035	148.00	3240	218.00	902	334.00	1084

Data File: /chem/BNAMS1.i/8270/12-03-02/03dec02.b/r8050.d

Date : 03-DEC-2002 09:52

Client ID:

Instrument: BNAMS1.i

Sample Info: RDFT337

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: r8050.d

Spectrum: Average Spectrum: 7.190 to 7.203 min.

Location of Maximum: 198.00

Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	6973	149.00	1143	221.00	6752	335.00	403
75.00	11106	150.00	132	222.00	692	339.00	123
76.00	2511	151.00	211	223.00	1998	346.00	423
77.00	68496	152.00	106	224.00	16077	352.00	742
78.00	4922	153.00	1191	225.00	3034	353.00	568
79.00	3819	154.00	825	226.00	108	354.00	825
80.00	2970	155.00	1704	227.00	6451	355.00	139
81.00	3997	156.00	2184	228.00	823	357.00	151
82.00	1102	157.00	605	229.00	1296	365.00	2370
83.00	1116	158.00	465	230.00	118	370.00	132
84.00	629	159.00	219	231.00	708	371.00	112
85.00	842	160.00	1057	234.00	295	372.00	1346
86.00	1326	161.00	1364	235.00	534	373.00	104
87.00	722	162.00	253	236.00	141	383.00	291
88.00	114	164.00	123	237.00	256	390.00	112
91.00	1082	165.00	1245	239.00	187	402.00	616
92.00	1382	166.00	831	240.00	110	403.00	601
93.00	7173	167.00	6729	241.00	365	404.00	197
94.00	713	168.00	3282	242.00	932	421.00	404
95.00	134	169.00	650	243.00	1012	423.00	4942
96.00	684	170.00	260	244.00	12901	424.00	925
98.00	5804	171.00	319	245.00	1826	441.00	15476
99.00	4210	172.00	656	246.00	2275	442.00	105192
100.00	1144	173.00	743	247.00	353	443.00	20464
101.00	2529	174.00	1394	248.00	116	444.00	1651
102.00	162	175.00	2747	249.00	446		
103.00	786	176.00	820	251.00	164		
104.00	1523	177.00	1293	253.00	258		
105.00	1525	178.00	386	255.00	66264		

Data File: /chem/BNAMS1.i/8270/12-03-02/03dec02.b/r8050.d

Date : 03-DEC-2002 09:52

Client ID:

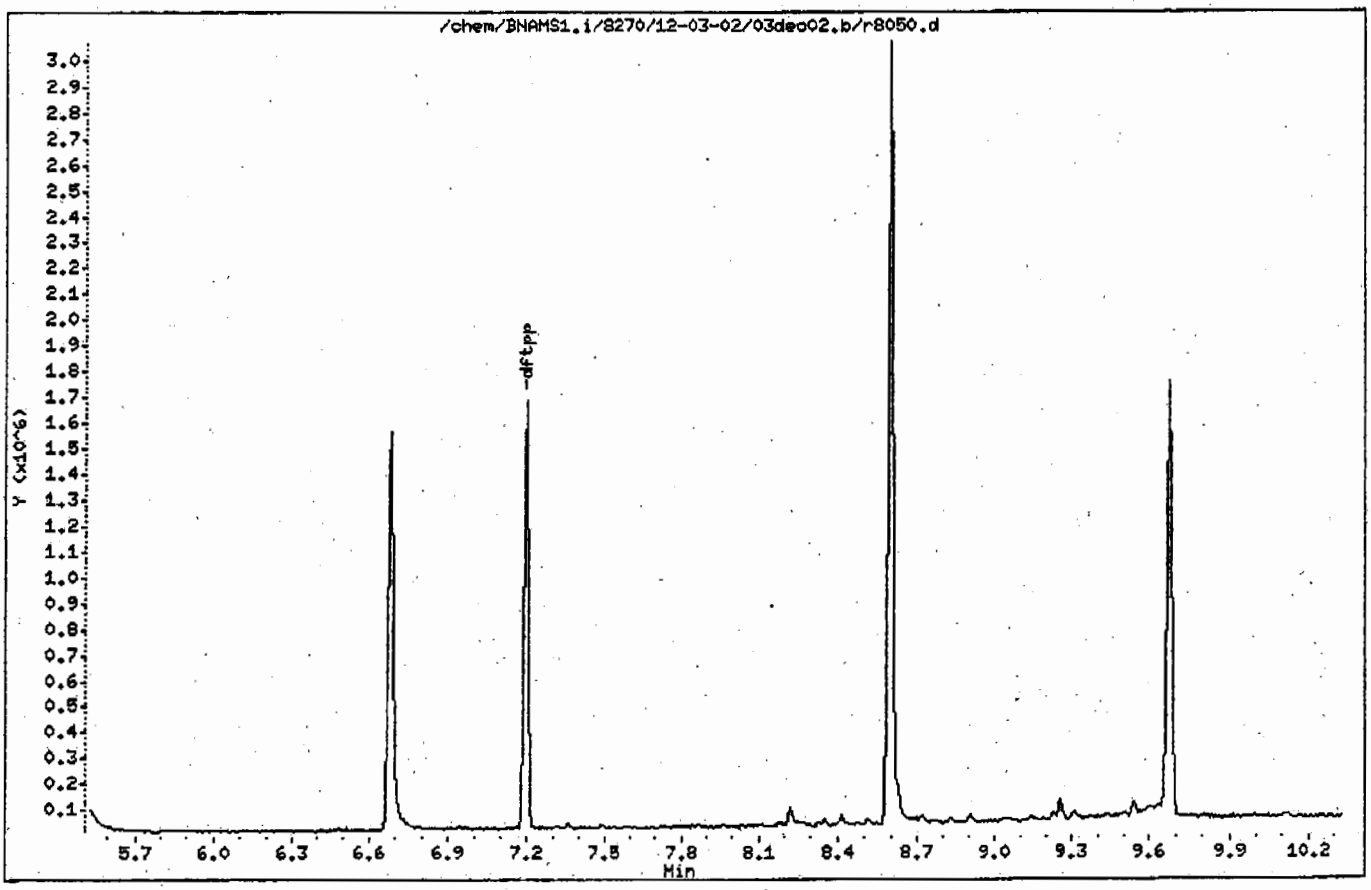
Instrument: BNAMS1.i

Sample Info: RDFT337

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: R8098 DFTPP Injection Date: 12/06/02

Instrument ID: BNAMS1 DFTPP Injection Time: 0745

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.9
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	45.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.5
365	Greater than 1.0% of mass 198	1.57
441	0.0 - 100.0% of mass 443	7.5 (65.9)2
442	40.0 - 110.0% of mass 198	59.1
443	17.0 - 23.0% of mass 442	11.4 (19.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	RSTD340	RSTD340	R8099	12/06/02	0803
02	SB325F	SB325F	R8104	12/06/02	1205
03	HA-01-02-0-6	392308	R8105	12/06/02	1252
04	HA-01-05-0-6	392316	R8106	12/06/02	1339
05	HA-02-04-0-6	392318	R8109	12/06/02	1559
06	HA-02-03-0-6	392319	R8110	12/06/02	1646
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

page 1 of 1

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8098.d

Date : 06-DEC-2002 07:45

Client ID:

Instrument: BNAMS1.i

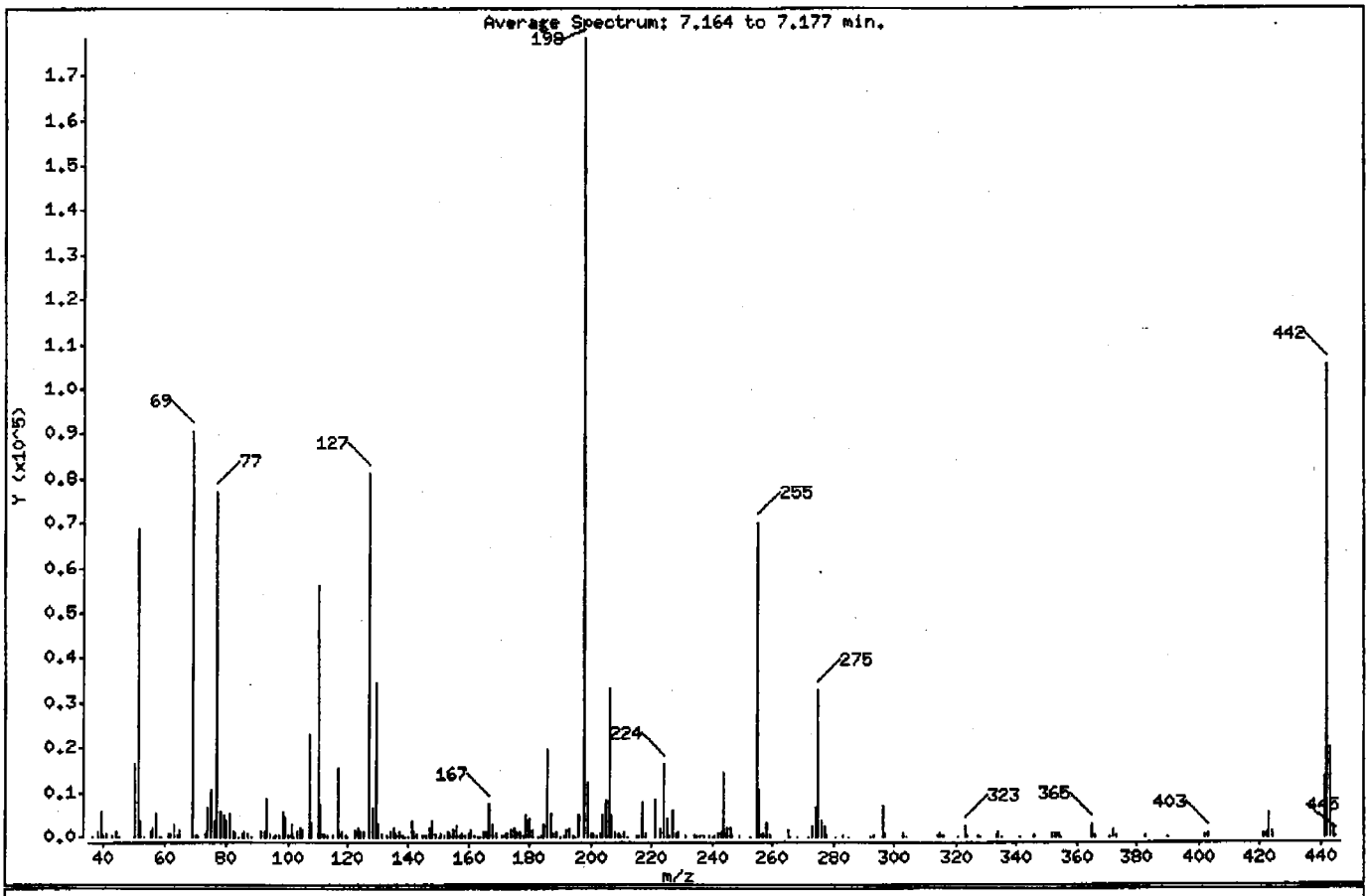
Sample Info: RDFT340

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.64
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	50.90
70	Less than 2.00% of mass 69	0.33 (0.65)
127	40.00 - 60.00% of mass 198	45.59
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.78
275	10.00 - 30.00% of mass 198	18.47
365	Greater than 1.00% of mass 198	1.57
441	0.01 - 100.00% of mass 443	7.49 (65.92)
442	40.00 - 110.00% of mass 198	59.13
443	17.00 - 23.00% of mass 442	11.37 (19.23)

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8098.d

Date : 06-DEC-2002 07:45

Client ID:

Instrument: BNAMS1.i

Sample Info: RDFT340

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: r8098.d

Spectrum: Average Spectrum: 7.164 to 7.177 min.

Location of Maximum: 198.00

Number of points: 239

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	165	112.00	930	179.00	4963	255.00	69976
38.00	1123	113.00	278	180.00	4143	256.00	10578
39.00	5854	115.00	254	181.00	1615	257.00	900
40.00	495	117.00	15777	183.00	102	258.00	3356
41.00	778	118.00	1138	184.00	384	259.00	453
43.00	430	119.00	262	185.00	2914	265.00	1676
44.00	1238	120.00	102	186.00	19760	266.00	136
45.00	102	122.00	1584	187.00	5383	268.00	104
50.00	16274	123.00	1846	188.00	704	272.00	102
51.00	68896	124.00	1408	189.00	1134	273.00	2491
52.00	3736	125.00	1082	190.00	126	274.00	6398
53.00	117	127.00	81296	191.00	385	275.00	32928
55.00	1039	128.00	6632	192.00	1676	276.00	3719
56.00	2232	129.00	34424	193.00	1861	277.00	2273
57.00	5389	130.00	2693	194.00	393	278.00	298
58.00	151	131.00	619	195.00	136	281.00	105
59.00	162	133.00	364	196.00	5051	283.00	212
61.00	976	134.00	1063	198.00	178304	285.00	189
62.00	738	135.00	2112	199.00	12099	292.00	126
63.00	2681	136.00	993	200.00	711	293.00	418
64.00	428	137.00	1075	201.00	864	296.00	6864
65.00	1437	138.00	272	202.00	371	297.00	699
69.00	90768	139.00	100	203.00	930	303.00	646
70.00	588	140.00	194	204.00	4842	304.00	142
71.00	300	141.00	3649	205.00	8064	314.00	439
73.00	968	142.00	1162	206.00	33088	315.00	752
74.00	6500	143.00	716	207.00	4975	316.00	351
75.00	10493	145.00	246	208.00	1094	321.00	132
76.00	3712	146.00	457	209.00	653	323.00	2539
77.00	76936	147.00	2052	210.00	324	324.00	343
78.00	5854	148.00	3578	211.00	1383	327.00	247
79.00	5075	149.00	766	212.00	155	328.00	136
80.00	3506	150.00	149	215.00	389	333.00	288
81.00	5352	151.00	635	216.00	608	334.00	1181
82.00	1087	152.00	389	217.00	7989	335.00	168

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8098.d

Date : 06-DEC-2002 07:45

Client ID: Instrument: BNAMS1.i

Sample Info: RDFT340

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: r8098.d

Spectrum: Average Spectrum: 7.164 to 7.177 min.

Location of Maximum: 198.00

Number of points: 239

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	1163	153.00	1076	218.00	1000	341.00	106
84.00	105	154.00	967	221.00	8425	346.00	441
85.00	956	155.00	1700	223.00	1993	352.00	676
86.00	1371	156.00	2655	224.00	16432	353.00	621
87.00	778	157.00	356	225.00	4291	354.00	747
88.00	179	158.00	695	226.00	323	355.00	113
91.00	1271	159.00	425	227.00	6065	365.00	2801
92.00	1108	160.00	1004	228.00	874	366.00	319
93.00	8545	161.00	1581	229.00	1216	371.00	111
94.00	792	162.00	323	231.00	463	372.00	1575
95.00	122	163.00	138	234.00	234	373.00	210
96.00	404	164.00	103	235.00	443	383.00	444
97.00	255	165.00	1179	236.00	469	390.00	176
98.00	5799	166.00	1309	237.00	274	402.00	386
99.00	4499	167.00	7212	239.00	291	403.00	694
100.00	311	168.00	2719	240.00	108	421.00	617
101.00	3034	169.00	635	241.00	335	422.00	639
102.00	133	171.00	270	242.00	695	423.00	5317
103.00	1203	172.00	808	243.00	1115	424.00	1061
104.00	1990	173.00	804	244.00	14304	441.00	13362
105.00	1616	174.00	1470	245.00	1997	442.00	105432
107.00	22832	175.00	2003	246.00	1968	443.00	20264
108.00	3313	176.00	1134	247.00	359	444.00	1990
110.00	56232	177.00	1423	249.00	399	445.00	108
111.00	7409	178.00	363	253.00	110		

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8098.d

Date : 06-DEC-2002 07:45

Client ID:

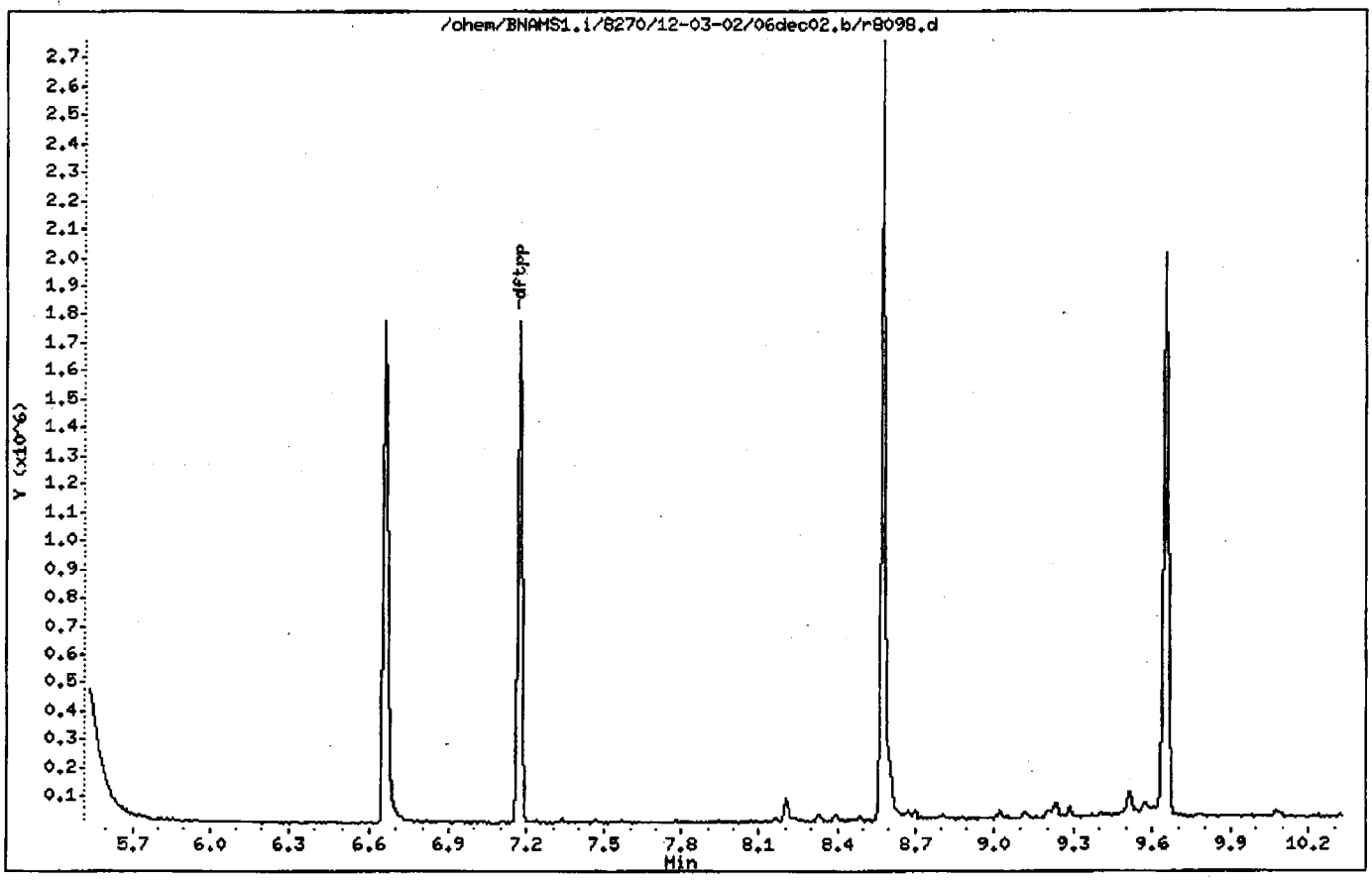
Instrument: BNAMS1.i

Sample Info: RDFT340

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: R8114 DFTPP Injection Date: 12/07/02

Instrument ID: BNAMS1 DFTPP Injection Time: 0619

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.4
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	45.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.7
365	Greater than 1.0% of mass 198	1.44
441	0.0 - 100.0% of mass 443	8.5 (76.0)2
442	40.0 - 110.0% of mass 198	59.3
443	17.0 - 23.0% of mass 442	11.2 (18.8)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	RSTD341	RSTD341	R8115	12/07/02	0638
02	HA-01-11-0-6	392310	R8117	12/07/02	0813
03	HA-01-10-0-6	392311	R8118	12/07/02	0900
04	HA-01-06-0-6	392315	R8119	12/07/02	0946
05	HA-01-12-0-6	392309	R8120	12/07/02	1033
06	HA-01-07-0-6	392314	R8121	12/07/02	1119
07	HA-01-03-0-6	392306	R8122	12/07/02	1206
08	HA-01-04-0-6	392307	R8123	12/07/02	1252
09	HA-01-04-0-6	392307MS	R8124	12/07/02	1339
10	HA-01-04-0-6	392307MSD	R8125	12/07/02	1425
11	HA-01-08-0-6	392313	R8126	12/07/02	1512
12	HA-02-02-0-6	392320	R8128	12/07/02	1645
13	HA-02-06-0-6	392321	R8129	12/07/02	1731
14					
15					
16					
17					
18					

page 1 of 1

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8114.d

Date : 07-DEC-2002 06:19

Client ID:

Instrument: BNAMS1.i

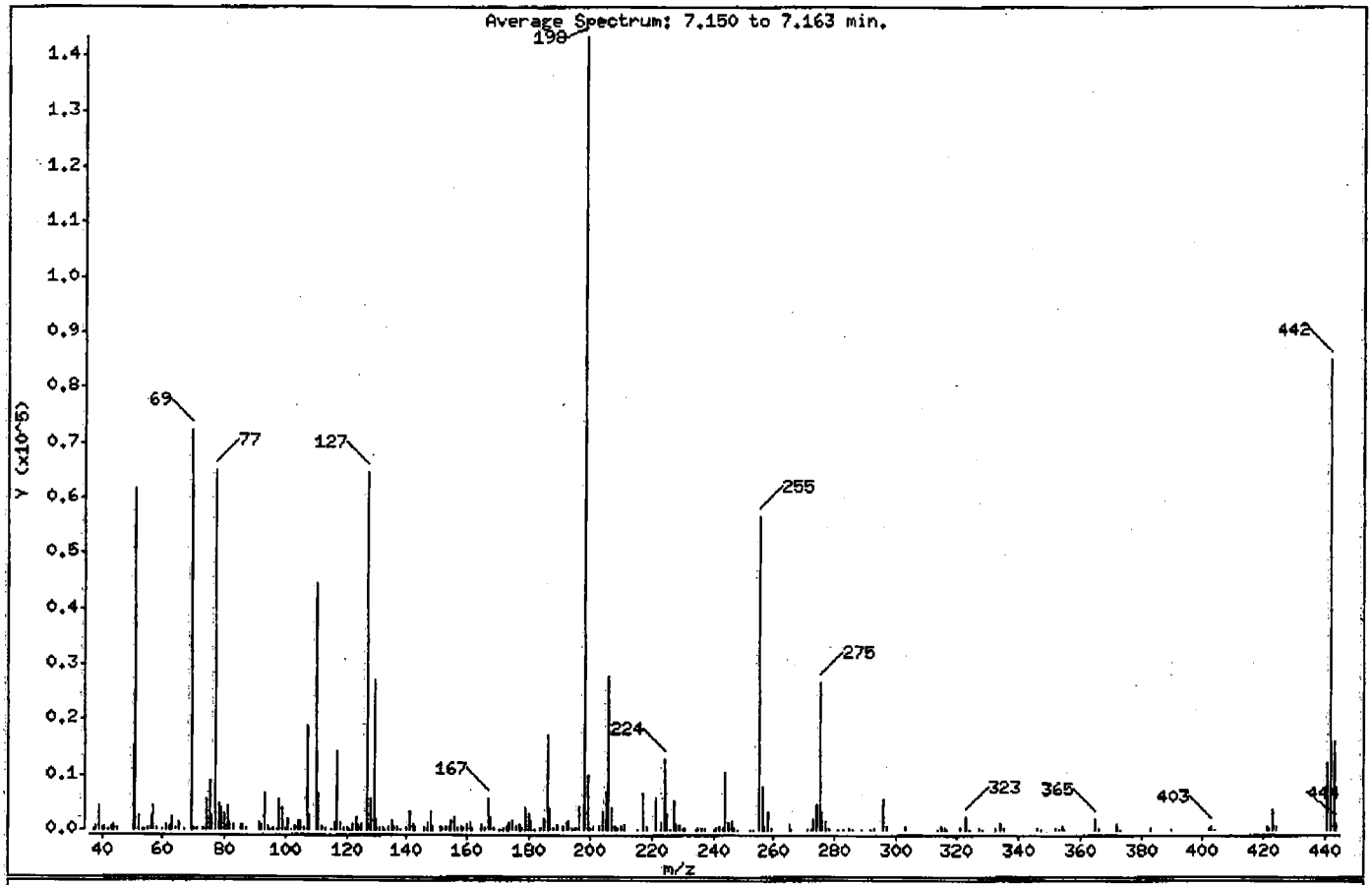
Sample Info: RDFT341

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	43.08
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	50.41
70	Less than 2.00% of mass 69	0.12 (0.23)
127	40.00 - 60.00% of mass 198	44.97
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.83
275	10.00 - 30.00% of mass 198	18.69
365	Greater than 1.00% of mass 198	1.44
441	0.01 - 100.00% of mass 443	8.49 (76.05)
442	40.00 - 110.00% of mass 198	59.28
443	17.00 - 23.00% of mass 442	11.16 (18.82)

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8114.d

Date : 07-DEC-2002 06:19

Client ID: Instrument: BNAMS1.i

Sample Info: RDFT341

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: r8114.d
Spectrum: Average Spectrum: 7.150 to 7.163 min.
Location of Maximum: 198.00
Number of points: 237

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	147	110.00	44368	179.00	4054	258.00	3134
38.00	562	111.00	6681	180.00	3037	259.00	448
39.00	4375	112.00	656	181.00	1496	265.00	959
40.00	397	113.00	301	182.00	101	266.00	114
41.00	819	115.00	110	184.00	373	271.00	138
42.00	143	116.00	1182	185.00	2053	272.00	136
43.00	771	117.00	14150	186.00	17104	273.00	2105
44.00	1054	118.00	1198	187.00	4087	274.00	4496
45.00	196	119.00	282	188.00	473	275.00	26800
50.00	15140	120.00	373	189.00	933	276.00	3212
51.00	61800	121.00	135	191.00	673	277.00	1580
52.00	2533	122.00	999	192.00	1274	278.00	338
53.00	127	123.00	2341	193.00	1588	281.00	111
54.00	124	124.00	839	194.00	314	283.00	154
55.00	464	125.00	870	195.00	269	285.00	252
56.00	2263	127.00	64504	196.00	4406	286.00	118
57.00	4258	128.00	5463	198.00	143424	289.00	106
58.00	246	129.00	26904	199.00	9793	292.00	111
60.00	103	130.00	1846	200.00	409	293.00	395
61.00	984	131.00	174	201.00	591	296.00	5713
62.00	769	132.00	310	203.00	625	297.00	726
63.00	2362	133.00	106	204.00	3460	303.00	609
64.00	461	134.00	740	205.00	6796	314.00	133
65.00	1184	135.00	1578	206.00	27808	315.00	496
67.00	146	136.00	676	207.00	4040	316.00	171
69.00	72320	137.00	736	208.00	684	317.00	109
70.00	168	138.00	106	209.00	245	321.00	181
71.00	267	140.00	168	210.00	547	323.00	2229
73.00	434	141.00	3165	211.00	969	324.00	144
74.00	5721	142.00	940	215.00	126	327.00	390
75.00	8874	143.00	528	217.00	6726	328.00	160
76.00	2591	146.00	398	218.00	622	332.00	211
77.00	65032	147.00	1303	221.00	5960	334.00	1205
78.00	4499	148.00	3146	223.00	1342	335.00	183
79.00	4001	149.00	786	224.00	12823	346.00	416

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8114.d

Date : 07-DEC-2002 06:19

Client ID: Instrument: BNAMS1.i

Sample Info: RDFT341

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: r8114.d

Spectrum: Average Spectrum: 7.150 to 7.163 min.

Location of Maximum: 198.00

Number of points: 237

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	3086	151.00	526	225.00	2959	347.00	154
81.00	4415	152.00	237	226.00	106	352.00	459
82.00	1344	153.00	714	227.00	5130	353.00	113
83.00	1028	154.00	649	228.00	999	354.00	580
85.00	1038	155.00	1520	229.00	857	355.00	119
86.00	947	156.00	2236	230.00	286	365.00	2068
87.00	281	157.00	339	231.00	230	366.00	217
91.00	1260	158.00	553	234.00	146	372.00	1092
92.00	913	159.00	393	235.00	370	373.00	145
93.00	6642	160.00	854	236.00	185	383.00	233
94.00	713	161.00	1177	237.00	291	390.00	151
95.00	113	162.00	479	240.00	144	402.00	298
96.00	473	165.00	1132	241.00	183	403.00	519
97.00	149	166.00	419	242.00	726	404.00	100
98.00	5727	167.00	5654	243.00	307	421.00	697
99.00	3991	168.00	2434	244.00	10697	422.00	353
100.00	420	169.00	238	245.00	1230	423.00	3667
101.00	2116	171.00	137	246.00	1800	424.00	757
102.00	102	172.00	446	247.00	360	441.00	12174
103.00	681	173.00	792	248.00	108	442.00	85040
104.00	1502	174.00	1188	252.00	102	443.00	16008
105.00	1596	175.00	1743	253.00	135	444.00	1369
106.00	239	176.00	684	255.00	56648		
107.00	18872	177.00	1038	256.00	7999		
108.00	2606	178.00	389	257.00	698		

Data File: /chem/BNAMS1.i/8270/12-03-02/07dec02.b/r8114.d

Date : 07-DEC-2002 06:19

Client ID:

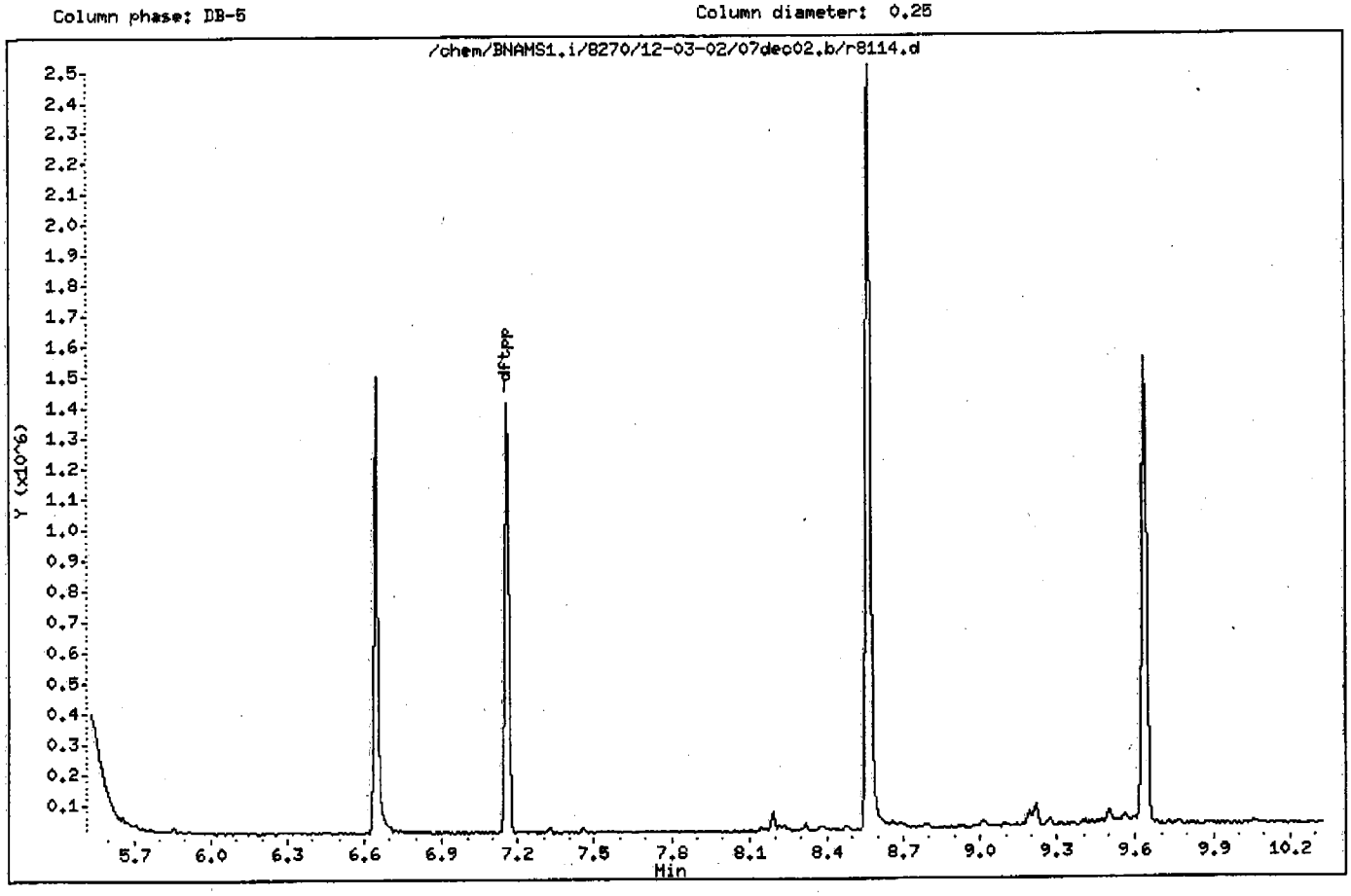
Instrument: BNAMS1.i

Sample Info: RDFT341

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: R8130 DFTPP Injection Date: 12/08/02

Instrument ID: BNAMS1 DFTPP Injection Time: 0617

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.9
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	45.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	19.4
365	Greater than 1.0% of mass 198	1.77
441	0.0 - 100.0% of mass 443	9.3 (80.8)2
442	40.0 - 110.0% of mass 198	58.6
443	17.0 - 23.0% of mass 442	11.5 (19.6)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	RSTD342	RSTD342	R8131	12/08/02	0635
02	HA-02-08-0-6	392317	R8136	12/08/02	1030
03	HA-02-05-0-6	392322	R8140	12/08/02	1336
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

page 1 of 1

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8130.d

Date : 08-DEC-2002 06:17

Client ID:

Instrument: BNAMS1.i

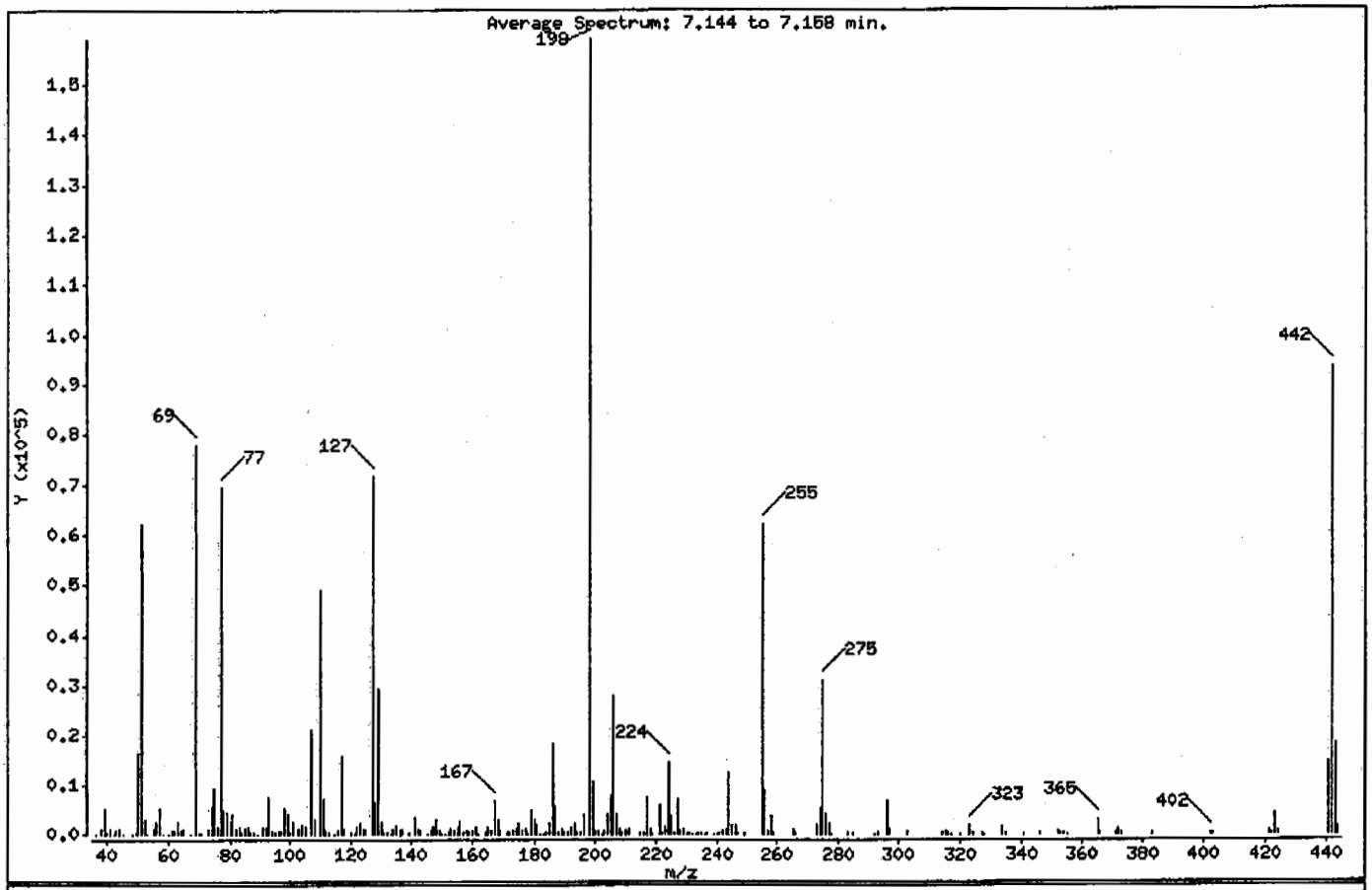
Sample Info: RDFT342

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	39.08
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	48.90
70	Less than 2.00% of mass 69	0.29 (0.59)
127	40.00 - 60.00% of mass 198	45.02
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 30.00% of mass 198	19.44
365	Greater than 1.00% of mass 198	1.77
441	0.01 - 100.00% of mass 443	9.26 (80.82)
442	40.00 - 110.00% of mass 198	58.59
443	17.00 - 23.00% of mass 442	11.46 (19.56)

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8130.d

Date : 08-DEC-2002 06:17

Client ID: Instrument: BNAMS1.i

Sample Info: RDFT342

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: r8130.d

Spectrum: Average Spectrum: 7.144 to 7.158 min.

Location of Maximum: 198.00

Number of points: 240

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	121	108.00	3049	178.00	121	245.00	1894
38.00	922	110.00	49088	179.00	4878	246.00	1951
39.00	5202	111.00	6877	180.00	3020	247.00	525
40.00	305	112.00	827	181.00	1793	249.00	374
41.00	968	113.00	286	182.00	121	255.00	62080
42.00	102	115.00	174	183.00	114	256.00	8749
43.00	710	116.00	893	184.00	394	257.00	626
44.00	1074	117.00	15581	185.00	2269	258.00	3766
45.00	161	118.00	1135	186.00	18360	259.00	441
48.00	106	120.00	397	187.00	5509	265.00	1236
49.00	539	121.00	102	188.00	499	266.00	435
50.00	16432	122.00	1367	189.00	1004	273.00	1930
51.00	62216	123.00	2329	190.00	222	274.00	5061
52.00	3006	124.00	1185	191.00	531	275.00	30952
53.00	122	125.00	896	192.00	1491	276.00	4144
55.00	920	127.00	71672	193.00	2048	277.00	2065
56.00	2663	128.00	6233	194.00	242	278.00	106
57.00	5066	129.00	29104	195.00	290	283.00	186
58.00	137	130.00	2662	196.00	3965	285.00	267
60.00	152	131.00	360	198.00	159168	292.00	111
61.00	851	132.00	406	199.00	10544	293.00	426
62.00	861	133.00	181	200.00	849	296.00	6629
63.00	2642	134.00	922	201.00	588	297.00	923
64.00	694	135.00	1836	202.00	158	303.00	819
65.00	1239	136.00	876	203.00	638	314.00	277
67.00	161	137.00	980	204.00	4147	315.00	713
69.00	77864	139.00	205	205.00	7708	316.00	414
70.00	458	141.00	3426	206.00	27808	317.00	163
71.00	251	142.00	1152	207.00	3874	320.00	114
73.00	1008	143.00	796	208.00	1160	323.00	1908
74.00	5665	145.00	108	209.00	291	324.00	333
75.00	9072	146.00	619	210.00	631	327.00	249
76.00	1511	147.00	1386	211.00	1169	328.00	140
77.00	69464	148.00	2949	215.00	382	334.00	1539
78.00	4708	149.00	666	216.00	523	335.00	313

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8130.d

Date : 08-DEC-2002 06:17

Client ID:

Instrument: BNAMS1.i

Sample Info: RDFT342

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: r8130.d
Spectrum: Average Spectrum: 7.144 to 7.158 min.
Location of Maximum: 198.00
Number of points: 240

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	4236	150.00	102	217.00	7160	341.00	108
80.00	2744	151.00	130	218.00	989	346.00	219
81.00	4149	152.00	219	219.00	159	352.00	652
82.00	1247	153.00	1056	221.00	6035	353.00	227
83.00	1373	154.00	847	222.00	389	354.00	263
84.00	362	155.00	1569	223.00	1564	355.00	101
85.00	1096	156.00	2556	224.00	14626	365.00	2823
86.00	1321	157.00	472	225.00	3493	366.00	247
87.00	311	158.00	638	226.00	379	371.00	242
88.00	307	159.00	351	227.00	6892	372.00	1106
89.00	100	160.00	671	228.00	860	373.00	367
91.00	1467	161.00	1346	229.00	1030	383.00	324
92.00	1324	162.00	152	230.00	120	402.00	500
93.00	7178	164.00	220	231.00	522	403.00	450
94.00	557	165.00	1364	232.00	132	421.00	613
95.00	250	166.00	817	233.00	100	422.00	359
96.00	692	167.00	6496	234.00	341	423.00	4164
97.00	563	168.00	3017	235.00	374	424.00	669
98.00	5271	169.00	696	236.00	142	441.00	14750
99.00	3939	171.00	380	237.00	442	442.00	93288
100.00	404	172.00	421	239.00	178	443.00	18248
101.00	2635	173.00	618	240.00	136	444.00	1602
103.00	1033	174.00	921	241.00	222		
104.00	1668	175.00	2318	242.00	638		
105.00	1613	176.00	807	243.00	992		
107.00	21208	177.00	1157	244.00	12502		

Data File: /chem/BNAMS1.i/8270/12-03-02/08dec02.b/r8130.d

Date : 08-DEC-2002 06:17

Client ID:

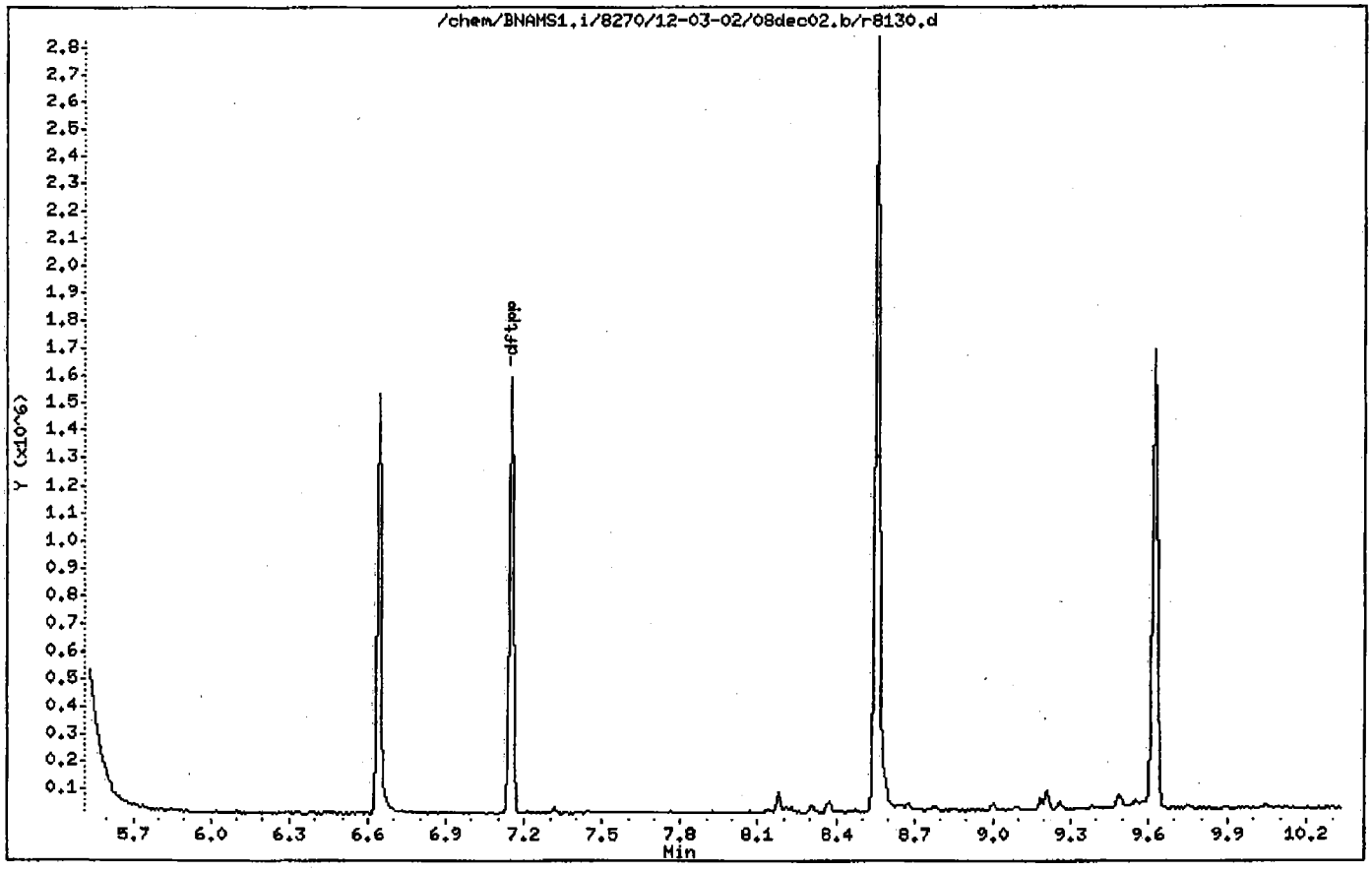
Instrument: BNAMS1.i

Sample Info: RDFT342

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: R8156 DFTPP Injection Date: 12/09/02

Instrument ID: BNAMS1 DFTPP Injection Time: 1624

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.0
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	51.6
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	42.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	18.4
365	Greater than 1.0% of mass 198	1.72
441	0.0 - 100.0% of mass 443	7.8 (62.1)2
442	40.0 - 110.0% of mass 198	65.4
443	17.0 - 23.0% of mass 442	12.5 (19.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	RSTD343	RSTD343	R8157	12/09/02	1644
02	HA-01-DUP	392324	R8161	12/09/02	2001
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

page 1 of 1

Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8156.d

Date : 09-DEC-2002 16:24

Client ID:

Instrument: BNAMS1.i

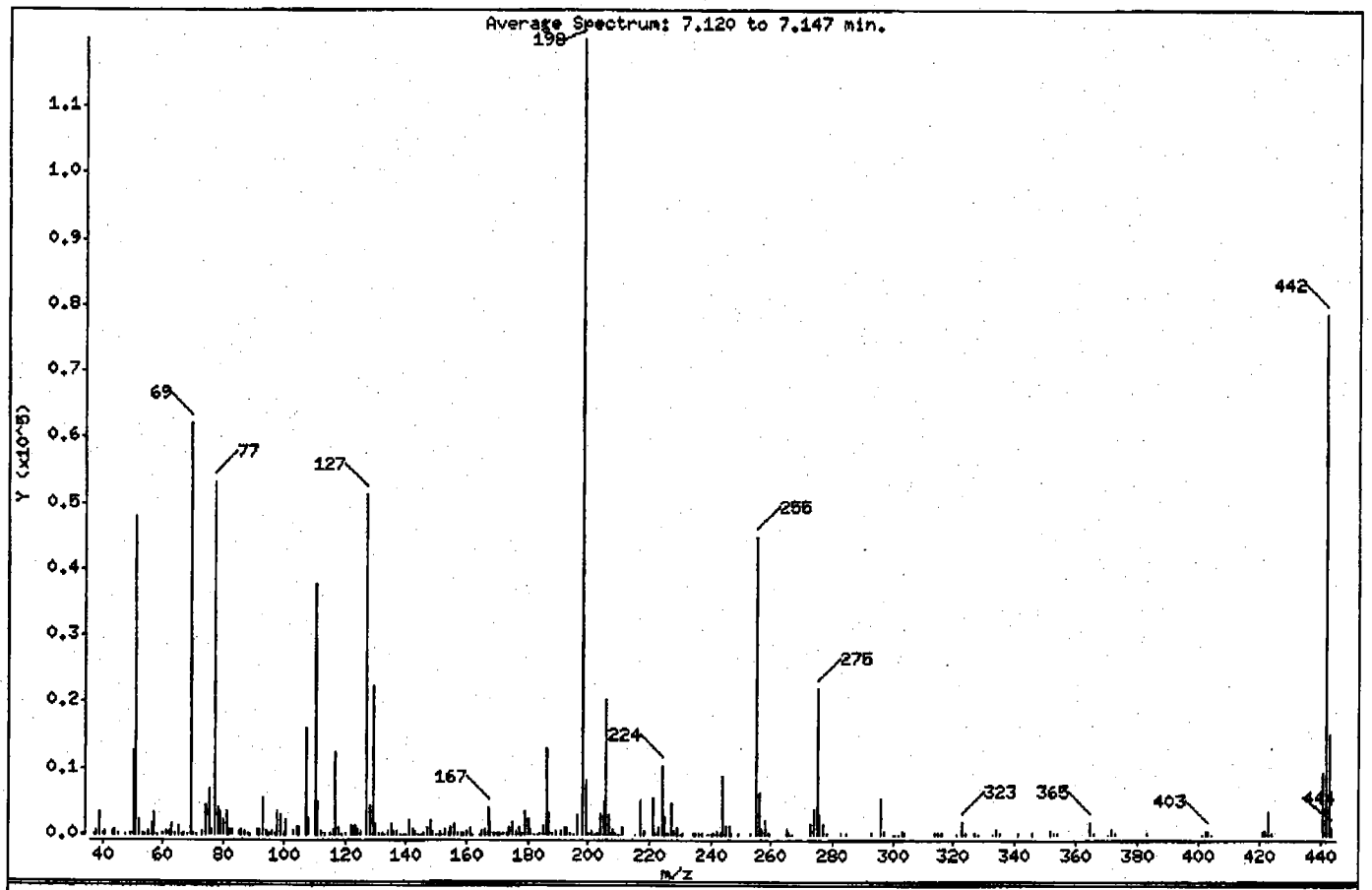
Sample Info: RDFT343

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	39.95
68	Less than 2.00% of mass 69	0.07 (0.13)
69	Mass 69 relative abundance	51.63
70	Less than 2.00% of mass 69	0.27 (0.53)
127	40.00 - 60.00% of mass 198	42.65
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.90
275	10.00 - 30.00% of mass 198	18.35
365	Greater than 1.00% of mass 198	1.72
441	0.01 - 100.00% of mass 443	7.78 (62.07)
442	40.00 - 110.00% of mass 198	65.44
443	17.00 - 23.00% of mass 442	12.54 (19.16)

Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8156.d

Date : 09-DEC-2002 16:24

Client ID: Instrument: BNAMS1.i

Sample Info: RDFT343

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: r8156.d

Spectrum: Average Spectrum: 7.120 to 7.147 min.

Location of Maximum: 198.00

Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	62	108.00	2559	175.00	1890	249.00	270
38.00	581	110.00	37698	176.00	673	253.00	182
39.00	3434	111.00	5038	177.00	984	255.00	44864
40.00	300	112.00	425	178.00	277	256.00	6439
41.00	552	113.00	176	179.00	3677	257.00	735
43.00	604	115.00	167	180.00	2378	258.00	2211
44.00	742	116.00	865	181.00	871	259.00	254
45.00	141	117.00	12488	182.00	67	265.00	903
47.00	68	118.00	974	183.00	83	266.00	271
49.00	148	119.00	133	184.00	168	267.00	87
50.00	12814	120.00	212	185.00	1405	273.00	1567
51.00	47912	122.00	1267	186.00	12951	274.00	3849
52.00	2300	123.00	1443	187.00	3303	275.00	22008
53.00	187	124.00	749	188.00	327	276.00	2950
54.00	73	125.00	637	189.00	562	277.00	1740
55.00	614	127.00	51152	191.00	479	278.00	241
56.00	1613	128.00	4299	192.00	1005	283.00	143
57.00	3388	129.00	22440	193.00	1090	285.00	218
58.00	91	130.00	1611	194.00	142	293.00	292
60.00	205	131.00	242	195.00	62	296.00	5578
61.00	517	132.00	308	196.00	3003	297.00	659
62.00	577	133.00	64	198.00	119936	300.00	62
63.00	1575	134.00	635	199.00	8273	301.00	61
64.00	176	135.00	1628	200.00	400	302.00	70
65.00	1426	136.00	528	201.00	529	303.00	581
66.00	60	137.00	653	202.00	112	304.00	160
67.00	291	138.00	77	203.00	390	314.00	177
68.00	82	139.00	77	204.00	3114	315.00	356
69.00	61920	140.00	101	205.00	4945	316.00	294
70.00	326	141.00	2085	206.00	20312	321.00	67
71.00	87	142.00	912	207.00	3088	323.00	1883
73.00	655	143.00	490	208.00	784	324.00	291
74.00	4416	144.00	68	209.00	401	327.00	347
75.00	7015	145.00	73	210.00	71	328.00	81
76.00	805	146.00	212	211.00	1001	333.00	67

Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8156.d

Date : 09-DEC-2002 16:24

Client ID: Instrument: BNAMS1.i

Sample Info: RDFT343

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: r8156.d
Spectrum: Average Spectrum: 7.120 to 7.147 min.
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	53336	147.00	1102	215.00	125	334.00	950
78.00	4020	148.00	2319	217.00	5314	335.00	223
79.00	3512	149.00	478	218.00	506	341.00	226
80.00	2208	150.00	63	221.00	5499	346.00	297
81.00	3624	151.00	618	222.00	302	352.00	527
82.00	899	152.00	98	223.00	1216	353.00	256
83.00	808	153.00	801	224.00	10520	354.00	269
85.00	491	154.00	375	225.00	2859	365.00	2063
86.00	742	155.00	1188	226.00	201	366.00	413
87.00	462	156.00	1750	227.00	4655	371.00	76
88.00	153	157.00	154	228.00	610	372.00	845
89.00	66	158.00	407	229.00	1000	373.00	190
91.00	912	159.00	395	230.00	112	383.00	210
92.00	922	160.00	679	231.00	355	401.00	125
93.00	5409	161.00	987	234.00	283	402.00	419
94.00	547	162.00	87	235.00	241	403.00	515
95.00	290	164.00	92	236.00	202	404.00	91
96.00	491	165.00	507	237.00	219	421.00	446
97.00	246	166.00	834	239.00	67	422.00	467
98.00	3546	167.00	4222	240.00	114	423.00	3648
99.00	3005	168.00	1996	241.00	173	424.00	378
100.00	308	169.00	262	242.00	599	441.00	9336
101.00	2083	170.00	294	243.00	158	442.00	78488
103.00	653	171.00	181	244.00	8928	443.00	15042
104.00	1091	172.00	376	245.00	1323	444.00	1157
105.00	1053	173.00	404	246.00	1316		
107.00	15864	174.00	1214	247.00	196		

Data File: /chem/BNAMS1.i/8270/12-03-02/09dec02a.b/r8156.d

Date : 09-DEC-2002 16:24

Client ID:

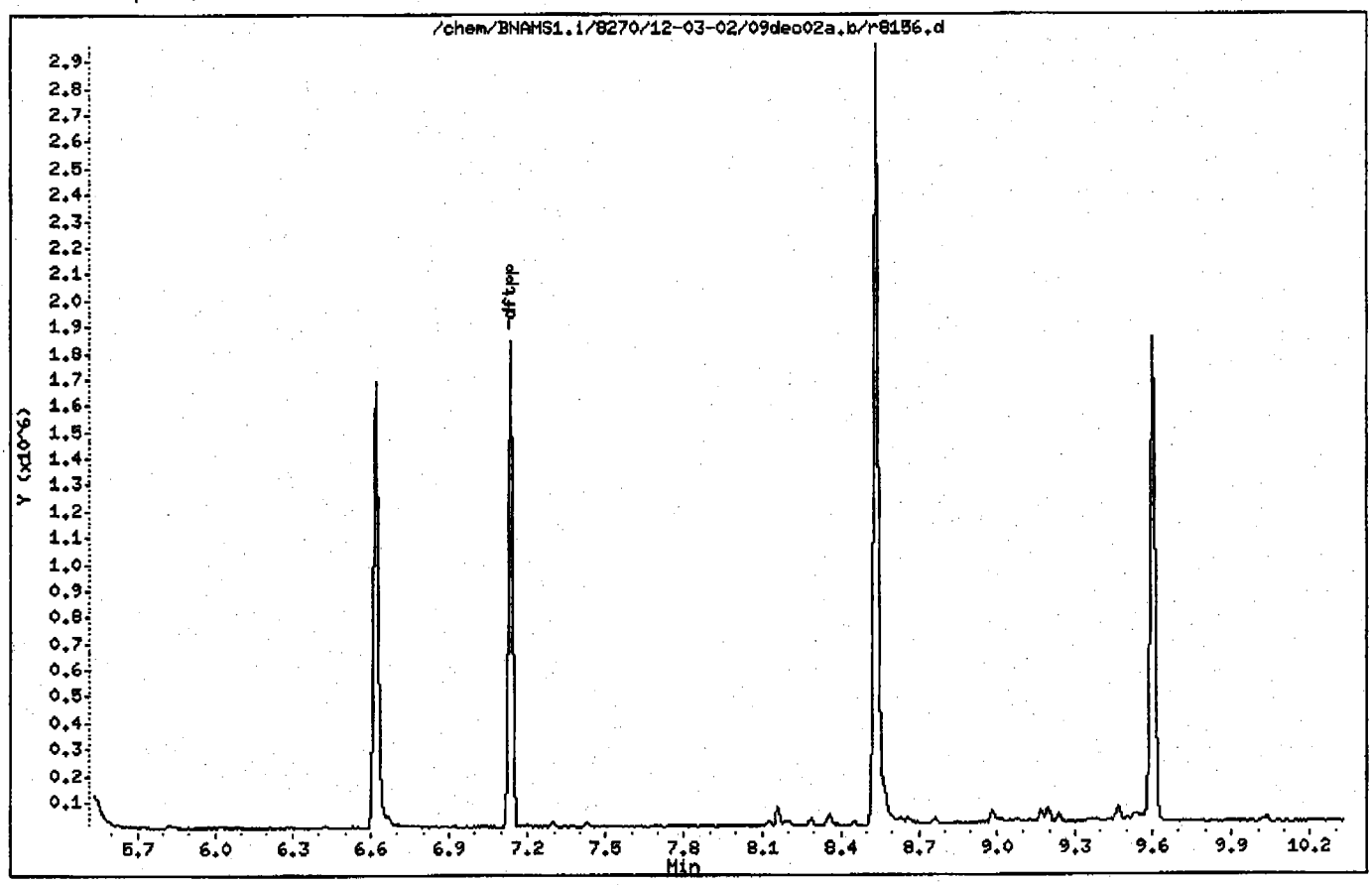
Instrument: BNAMS1.i

Sample Info: RDFT343

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: U8217 DFTPP Injection Date: 12/03/02

Instrument ID: BNAMS4 DFTPP Injection Time: 1018

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	47.5	
68	Less than 2.0% of mass 69	1.3	(1.9)1
69	Mass 69 relative abundance	69.7	
70	Less than 2.0% of mass 69	0.4	(0.6)1
127	40.0 - 60.0% of mass 198	46.1	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.1	
275	10.0 - 30.0% of mass 198	20.7	
365	Greater than 1.0% of mass 198	2.70	
441	0.0 - 100.0% of mass 443	7.8	(82.2)2
442	40.0 - 110.0% of mass 198	48.3	
443	17.0 - 23.0% of mass 442	9.5	(19.6)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	USTD050	USTD050	U8218	12/03/02	1041
02	USTD120	USTD120	U8219	12/03/02	1146
03	USTD080	USTD080	U8221	12/03/02	1326
04	USTD020	USTD020	U8222	12/03/02	1413
05	USTD005	USTD005	U8223	12/03/02	1511
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

page 1 of 1

Data File: /chem/BNAMS4.i/8270/12-03-02/03dec02.b/u8217.d

Date : 03-DEC-2002 10:18

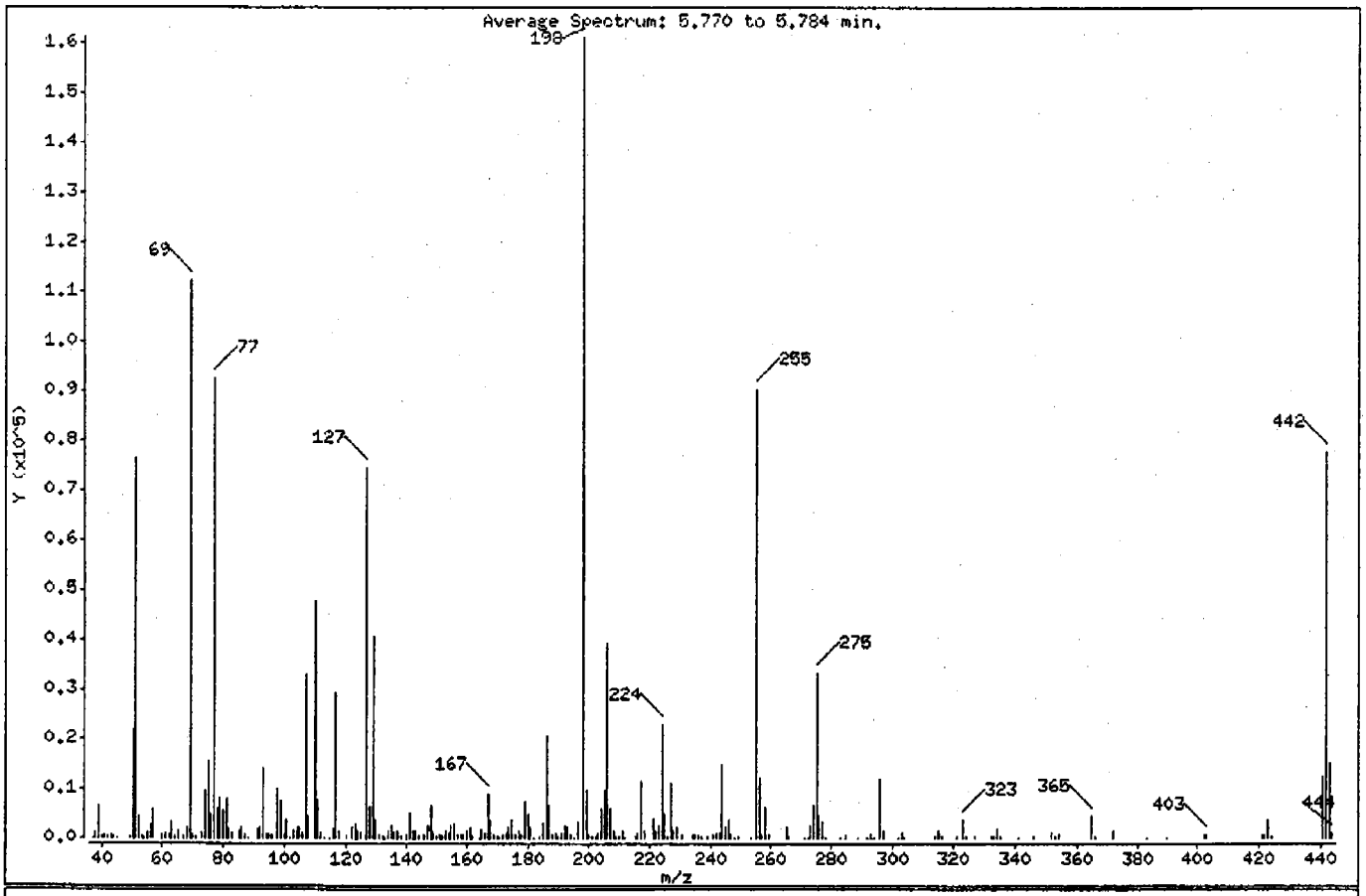
Client ID: Instrument: BNAMS4.i

Sample Info: UDFT337

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.45
68	Less than 2.00% of mass 69	1.34 (1.92)
69	Mass 69 relative abundance	69.73
70	Less than 2.00% of mass 69	0.42 (0.60)
127	40.00 - 60.00% of mass 198	46.09
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.09
275	10.00 - 30.00% of mass 198	20.74
365	Greater than 1.00% of mass 198	2.70
441	0.01 - 100.00% of mass 443	7.78 (82.25)
442	40.00 - 110.00% of mass 198	48.35
443	17.00 - 23.00% of mass 442	9.46 (19.56)

Data File: /chem/BNAMS4.i/8270/12-03-02/03dec02.b/u8217.d

Date : 03-DEC-2002 10:18

Client ID: Instrument: BNAMS4.i

Sample Info: UDFT337

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: u8217.d
Spectrum: Average Spectrum: 5.770 to 5.784 min.
Location of Maximum: 198.00
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	175	110.00	47560	178.00	584	253.00	113
38.00	934	111.00	7615	179.00	7392	255.00	90200
39.00	6731	112.00	1032	180.00	4662	256.00	12146
40.00	393	113.00	166	181.00	2070	257.00	570
41.00	662	115.00	153	182.00	105	258.00	6273
42.00	218	116.00	1741	184.00	463	259.00	701
43.00	811	117.00	29416	185.00	3083	265.00	2249
44.00	368	118.00	1633	186.00	20856	266.00	281
45.00	129	120.00	354	187.00	6792	271.00	141
49.00	427	122.00	2188	188.00	716	272.00	154
50.00	21856	123.00	3039	189.00	1281	273.00	2551
51.00	76400	124.00	1404	190.00	288	274.00	6604
52.00	4616	125.00	1202	191.00	959	275.00	33392
53.00	361	127.00	74208	192.00	2431	276.00	4285
54.00	132	128.00	6185	193.00	2190	277.00	3483
55.00	1229	129.00	40704	194.00	663	278.00	161
56.00	2502	130.00	3633	195.00	124	283.00	142
57.00	5911	131.00	680	196.00	3154	285.00	604
60.00	625	132.00	298	198.00	160960	289.00	112
61.00	1271	133.00	115	199.00	9799	292.00	102
62.00	887	134.00	1297	200.00	790	293.00	630
63.00	3418	135.00	2621	201.00	279	294.00	132
64.00	415	136.00	1086	202.00	232	296.00	11884
65.00	1325	137.00	1541	203.00	1100	297.00	1520
67.00	442	138.00	223	204.00	6077	302.00	164
68.00	2158	140.00	638	205.00	9749	303.00	1239
69.00	112272	141.00	5091	206.00	39200	304.00	117
70.00	671	142.00	1429	207.00	6040	314.00	418
71.00	208	143.00	1331	208.00	1560	315.00	1439
73.00	1196	144.00	304	209.00	538	316.00	456
74.00	9743	146.00	917	210.00	440	321.00	238
75.00	15631	147.00	2454	211.00	1357	323.00	3559
76.00	4694	148.00	6626	212.00	117	324.00	527
77.00	92368	149.00	1087	215.00	339	327.00	439
78.00	5768	150.00	389	216.00	1089	332.00	211

Data File: /chem/BNAMS4.i/8270/12-03-02/03dec02.b/u8217.d

Date : 03-DEC-2002 10:18

Client ID: Instrument: BNAMS4.i

Sample Info: UDFT337

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: u8217.d

Spectrum: Average Spectrum: 5.770 to 5.784 min.

Location of Maximum: 198.00

Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	8007	151.00	649	217.00	11572	333.00	296
80.00	5727	152.00	454	218.00	1311	334.00	1893
81.00	7650	153.00	1512	221.00	3918	335.00	382
82.00	1740	154.00	926	222.00	1505	341.00	101
83.00	1207	155.00	2525	223.00	2457	346.00	400
85.00	1537	156.00	2908	224.00	23000	352.00	967
86.00	2303	157.00	595	225.00	4652	353.00	519
87.00	851	158.00	877	226.00	312	354.00	617
88.00	120	159.00	747	227.00	10916	365.00	4348
91.00	2028	160.00	1358	228.00	1609	366.00	364
92.00	2068	161.00	2111	229.00	2077	372.00	1628
93.00	14203	162.00	509	231.00	842	383.00	171
94.00	843	164.00	174	234.00	700	390.00	139
95.00	598	165.00	1773	235.00	618	402.00	600
96.00	596	166.00	1165	236.00	615	403.00	629
98.00	9976	167.00	8799	237.00	491	421.00	651
99.00	7474	168.00	3805	239.00	281	422.00	746
100.00	604	169.00	811	241.00	781	423.00	3829
101.00	3521	170.00	271	242.00	1199	424.00	413
102.00	182	171.00	290	243.00	1176	441.00	12525
103.00	1461	172.00	786	244.00	14809	442.00	77848
104.00	2207	173.00	974	245.00	2050	443.00	15228
105.00	2051	174.00	2073	246.00	3794	444.00	933
106.00	1006	175.00	3719	247.00	612		
107.00	33040	176.00	744	248.00	130		
108.00	4273	177.00	1646	249.00	392		

Data File: /chem/BNAMS4.i/8270/12-03-02/03dec02.b/u8217.d

Date : 03-DEC-2002 10:18

Client ID:

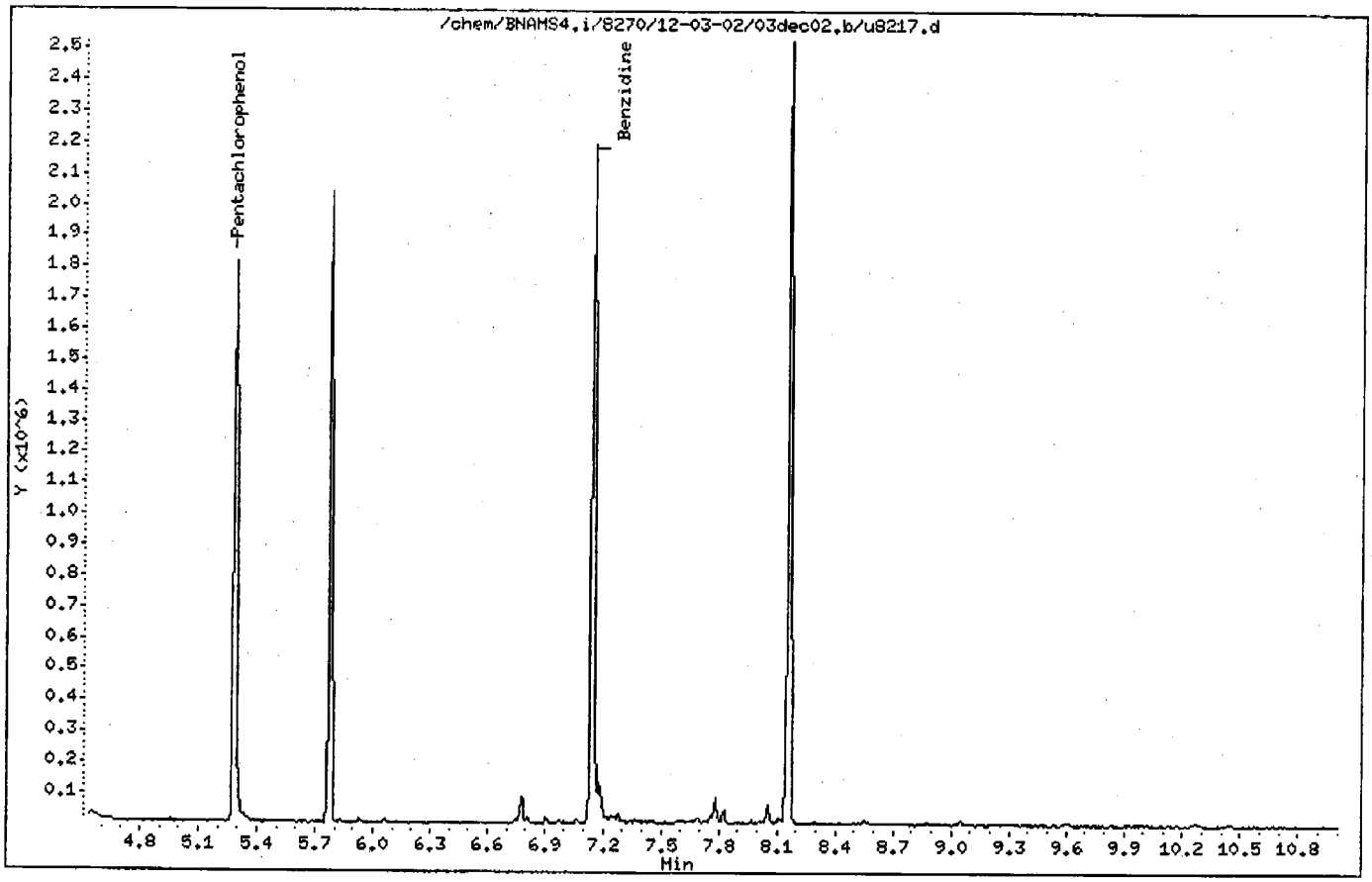
Instrument: BNAMS4.i

Sample Info: UDFT337

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: U8238 DFTPP Injection Date: 12/04/02

Instrument ID: BNAMS4 DFTPP Injection Time: 0917

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	70.5
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	49.7
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.0% of mass 198	3.21
441	0.0 - 100.0% of mass 443	8.0 (73.5)2
442	40.0 - 110.0% of mass 198	51.8
443	17.0 - 23.0% of mass 442	10.9 (21.1)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	USTD338	USTD338	U8239	12/04/02	0950
02	SB330	SB330	U8240	12/04/02	1040
03	HA-01-09-0-6	392312	U8251	12/04/02	1921
04	HA-02-07-0-6	392323	U8252	12/04/02	2008
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

page 1 of 1

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8238.d

Date : 04-DEC-2002 09:17

Client ID:

Instrument: BNAMS4.i

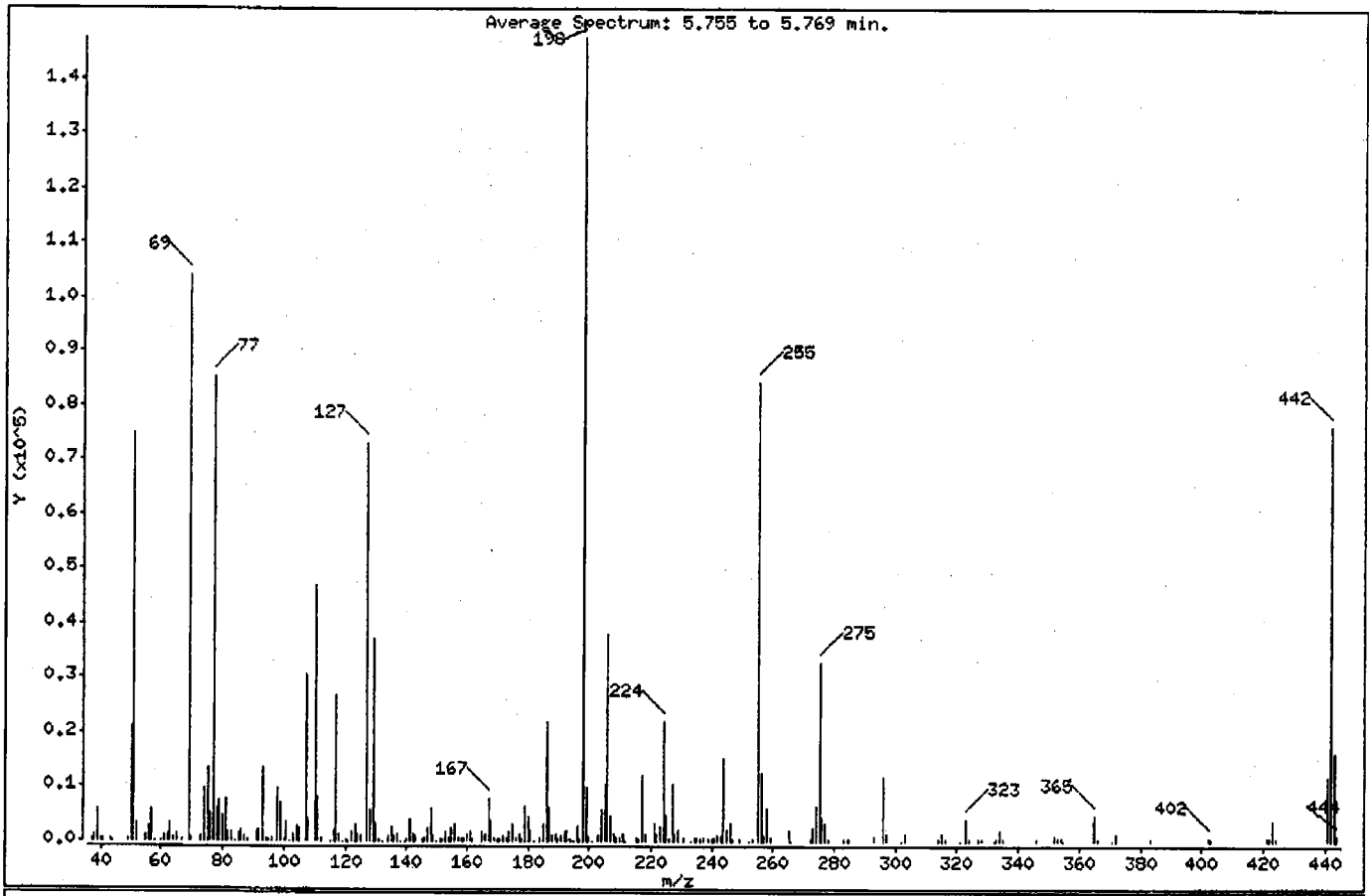
Sample Info: UDFT338

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.77
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	70.51
70	Less than 2.00% of mass 69	0.35 (0.50)
127	40.00 - 60.00% of mass 198	49.67
197	Less than 1.00% of mass 198	0.14
199	5.00 - 9.00% of mass 198	6.75
275	10.00 - 30.00% of mass 198	22.32
365	Greater than 1.00% of mass 198	3.21
441	0.01 - 100.00% of mass 443	8.03 (73.49)
442	40.00 - 110.00% of mass 198	51.81
443	17.00 - 23.00% of mass 442	10.93 (21.09)

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8238.d

Date : 04-DEC-2002 09:17

Client ID:

Instrument: BNAMS4.i

Sample Info: UDFT338

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: u8238.d

Spectrum: Average Spectrum: 5.755 to 5.769 min.

Location of Maximum: 198.00

Number of points: 235

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	278	115.00	141	179.00	6588	247.00	492
38.00	1109	116.00	1910	180.00	4352	249.00	346
39.00	5713	117.00	26872	181.00	1991	252.00	103
40.00	204	118.00	1259	182.00	128	253.00	229
41.00	425	119.00	115	184.00	746	255.00	84360
43.00	378	120.00	249	185.00	3089	256.00	12561
44.00	160	121.00	101	186.00	21888	257.00	969
49.00	432	122.00	1650	187.00	5956	258.00	5994
50.00	21128	123.00	2907	188.00	928	259.00	676
51.00	74848	124.00	1252	189.00	1434	265.00	1998
52.00	3489	125.00	1094	190.00	170	266.00	122
55.00	915	127.00	73232	191.00	859	272.00	178
56.00	2702	128.00	5871	192.00	1724	273.00	2499
57.00	5928	129.00	37160	193.00	2191	274.00	6434
58.00	129	130.00	3476	194.00	442	275.00	32904
60.00	104	131.00	497	195.00	146	276.00	4248
61.00	1090	132.00	135	196.00	2826	277.00	3420
62.00	1238	134.00	971	197.00	206	278.00	431
63.00	3315	135.00	2832	198.00	147392	283.00	268
64.00	510	136.00	922	199.00	9947	284.00	171
65.00	1328	137.00	1482	200.00	774	285.00	456
67.00	320	138.00	115	201.00	163	293.00	709
69.00	103960	139.00	101	203.00	1045	296.00	11838
70.00	517	140.00	223	204.00	5642	297.00	1362
73.00	1145	141.00	4211	205.00	10527	302.00	116
74.00	9971	142.00	1492	206.00	37800	303.00	1263
75.00	13573	143.00	1149	207.00	4824	314.00	387
76.00	4977	145.00	228	208.00	1344	315.00	1442
77.00	85480	146.00	611	209.00	638	316.00	466
78.00	6193	147.00	2526	210.00	688	321.00	137
79.00	7566	148.00	6236	211.00	1401	323.00	3967
80.00	4901	149.00	1011	212.00	107	324.00	449
81.00	7851	150.00	125	215.00	554	327.00	471
82.00	1848	151.00	405	216.00	481	328.00	262
83.00	1829	152.00	277	217.00	12219	332.00	136

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8238.d

Date : 04-DEC-2002 09:17

Client ID: Instrument: BNAMS4.i

Sample Info: UDFT338

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: u8238.d

Spectrum: Average Spectrum: 5.755 to 5.769 min.

Location of Maximum: 198.00

Number of points: 235

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	134	153.00	1618	218.00	1386	333.00	269
85.00	1200	154.00	768	221.00	3415	334.00	1890
86.00	1929	155.00	2424	222.00	1212	335.00	218
87.00	999	156.00	3049	223.00	2546	346.00	455
88.00	348	157.00	530	224.00	21864	352.00	1005
91.00	2041	158.00	756	225.00	4757	353.00	568
92.00	1866	159.00	573	226.00	290	354.00	746
93.00	13499	160.00	1476	227.00	10515	355.00	115
94.00	713	161.00	1823	228.00	1419	365.00	4737
95.00	344	162.00	381	229.00	1918	366.00	351
96.00	539	165.00	1729	231.00	558	371.00	125
98.00	9933	166.00	1394	233.00	103	372.00	1325
99.00	7096	167.00	7768	234.00	655	383.00	243
100.00	472	168.00	3761	235.00	803	402.00	509
101.00	3653	169.00	730	236.00	442	403.00	493
102.00	116	170.00	219	237.00	700	421.00	620
103.00	1248	171.00	292	239.00	361	422.00	539
104.00	2773	172.00	877	240.00	251	423.00	3822
105.00	2481	173.00	604	241.00	625	424.00	490
107.00	30496	174.00	1789	242.00	1003	441.00	11839
108.00	3980	175.00	3110	243.00	1032	442.00	76392
110.00	47040	176.00	744	244.00	15179	443.00	16110
111.00	8200	177.00	1475	245.00	1995	444.00	1037
112.00	738	178.00	459	246.00	3524		

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8238.d

Date : 04-DEC-2002 09:17

Client ID:

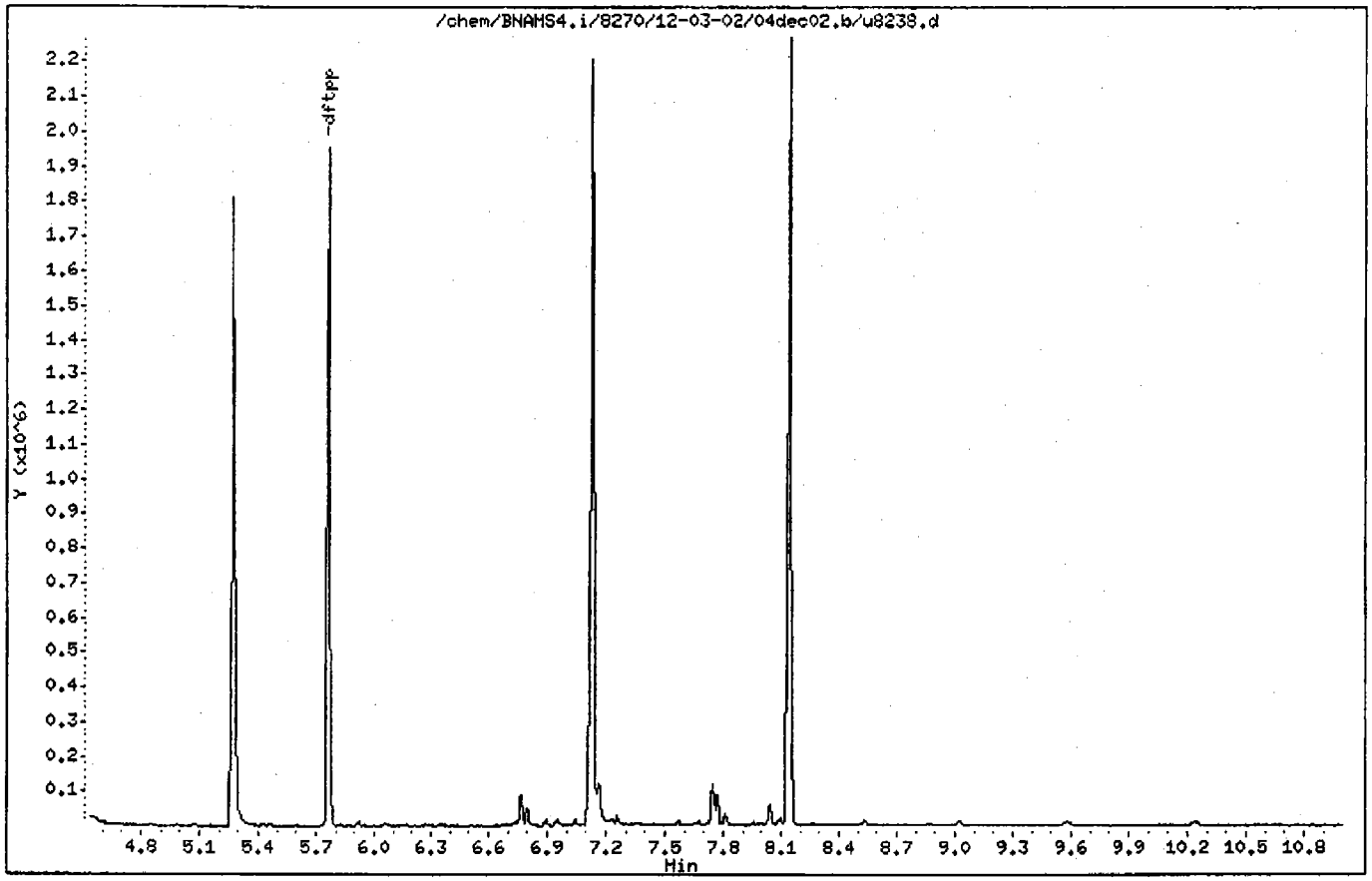
Instrument: BNAMS4.i

Sample Info: UDFT338

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



Method Blank Results Summary

LAB SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

SB325F

Matrix: SOIL

Date Analyzed: 12/06/02

Level: LOW

Time Analyzed: 1205

Instrument ID: BNAMS1

Lab File ID: R8104

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	DATE ANALYZED
01	HA-01-02-0-6	392308	R8105	12/06/02
02	HA-01-05-0-6	392316	R8106	12/06/02
03	HA-02-04-0-6	392318	R8109	12/06/02
04	HA-02-03-0-6	392319	R8110	12/06/02
05	HA-01-11-0-6	392310	R8117	12/07/02
06	HA-01-10-0-6	392311	R8118	12/07/02
07	HA-01-06-0-6	392315	R8119	12/07/02
08	HA-01-12-0-6	392309	R8120	12/07/02
09	HA-01-07-0-6	392314	R8121	12/07/02
10	HA-01-03-0-6	392306	R8122	12/07/02
11	HA-01-04-0-6	392307	R8123	12/07/02
12	HA-01-04-0-6MS	392307MS	R8124	12/07/02
13	HA-01-04-0-6MSD	392307MSD	R8125	12/07/02
14	HA-01-08-0-6	392313	R8126	12/07/02
15	HA-02-02-0-6	392320	R8128	12/07/02
16	HA-02-06-0-6	392321	R8129	12/07/02
17	HA-02-08-0-6	392317	R8136	12/08/02
18	HA-02-05-0-6	392322	R8140	12/08/02
19	HA-01-DUP	392324	R8161	12/09/02
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

Client ID: **SB325F**
Site:

Lab Sample No: **SB325F**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8104.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2,4-Dinitrophenol	ND	1300
4-Nitrophenol	ND	1300
4,6-Dinitro-2-methylphenol	ND	1300
Pentachlorophenol	ND	1300
Benzoic Acid	ND	330
N-Nitrosodimethylamine	ND	330
bis(2-Chloroethyl)ether	ND	33
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-chloroisopropyl)ether	ND	330
N-Nitroso-di-n-propylamine	ND	33
Hexachloroethane	ND	33
Nitrobenzene	ND	33
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	33
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	67
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670

Client ID: **SB325F**
Site:

Lab Sample No: **SB325F**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8104.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	67
3-Nitroaniline	ND	670
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	67
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	670
N-Nitrosodiphenylamine	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	33
Phenanthrene	ND	330
Anthracene	ND	330
Carbazole	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	1300
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	33
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	33
Benzo(k)fluoranthene	ND	33
Benzo(a)pyrene	ND	33
Indeno(1,2,3-cd)pyrene	ND	33
Dibenz(a,h)anthracene	ND	33
Benzo(g,h,i)perylene	ND	330
Pyridine	ND	330

Client ID: **SB325F**
Site:

Lab Sample No: **SB325F**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8104.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Aniline	ND	330
Benzyl Alcohol	ND	330
1,2-Diphenylhydrazine	ND	330
Diphenyl	ND	330
Diphenyl Ether	ND	330
Acetophenone	ND	330
1,4-Dioxane	ND	330
N,N-Dimethylaniline	ND	33
2,3,7,8-TCDD (Screen)	ND	33
Benzaldehyde	ND	330
Caprolactam	ND	330
Atrazine	ND	330

Client ID: **SB325F**
Site:

Lab Sample No: **SB325F**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Extracted: 11/21/02
Date Analyzed: 12/06/02
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r8104.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 0.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Aldol Condensate	9.89	3400	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 3400

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8104.d
Report Date: 12-Dec-2002 06:26

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8104.d
Lab Smp Id: SB325F Client Smp ID: SB325F
Inj Date : 06-DEC-2002 12:05
Operator : BNAMS 4 Inst ID: BNAMS1.i
Smp Info : SB325F;MB21221
Misc Info :
Comment :
Method : /chem/BNAMS1.i/8270/12-03-02/06dec02.b/8270c1.m
Meth Date : 06-Dec-2002 08:53 czhao Quant Type: ISTD
Cal Date : 03-DEC-2002 13:23 Cal File: r8055.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

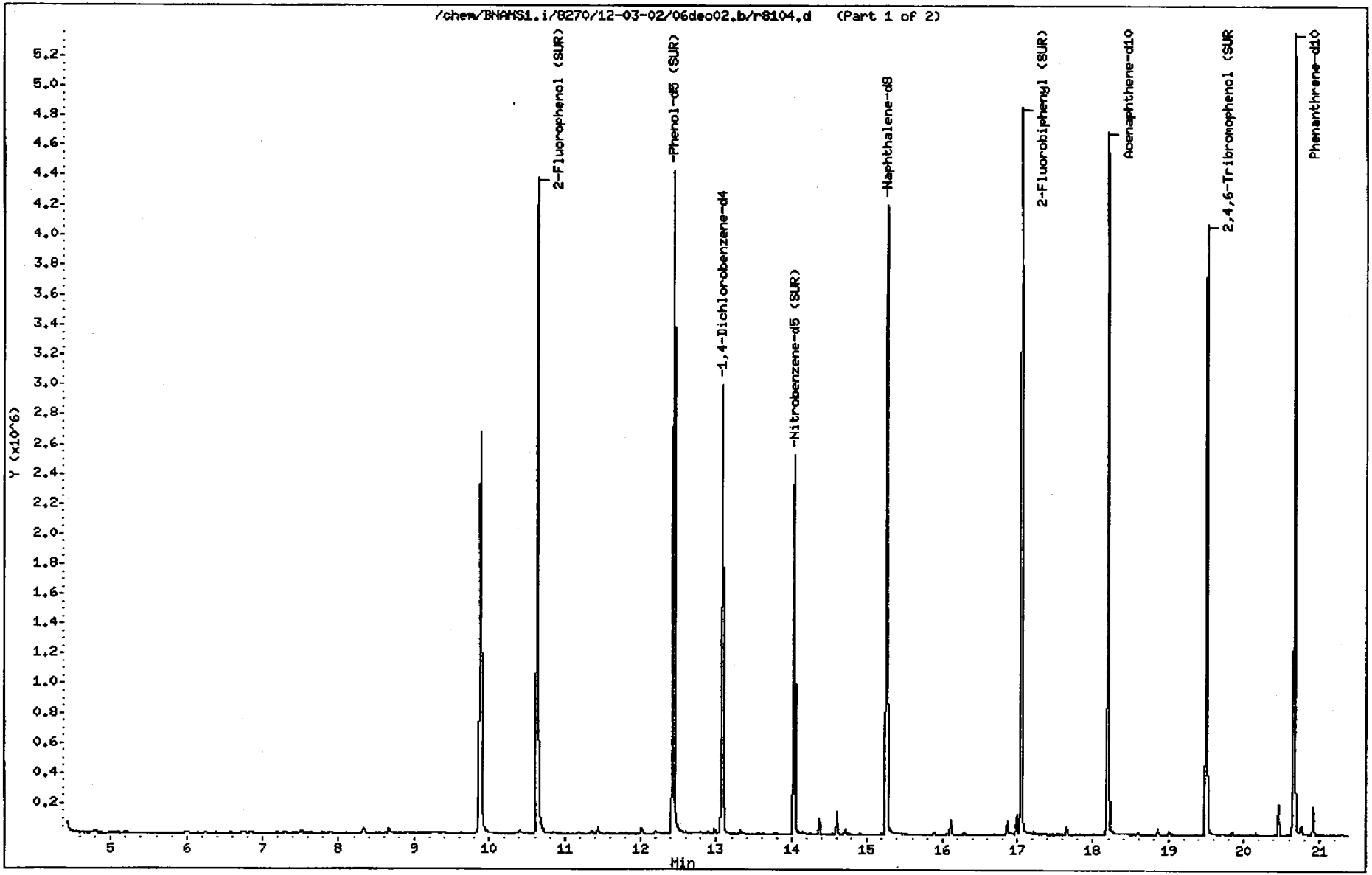
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.640	10.620	(0.813)	2542100	79.9470	5300
$ 17 Phenol-d5 (SUR)	99	12.438	12.438	(0.951)	2949877	83.0852	5500
* 79 1,4-Dichlorobenzene-d4	152	13.080	13.081	(1.000)	668959	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.035	14.041	(0.920)	1134970	41.5751	2800
* 80 Naphthalene-d8	136	15.258	15.264	(1.000)	2796974	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.056	17.056	(0.937)	2280988	40.9655	2700
* 82 Acenaphthene-d10	164	18.195	18.203	(1.000)	1711252	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.503	19.510	(1.072)	729855	82.3295	5500
* 83 Phenanthrene-d10	188	20.668	20.677	(1.000)	3511592	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.298	23.296	(0.928)	2639263	44.8149	3000
* 81 Chrysene-d12	240	25.107	25.120	(1.000)	2743307	40.0000	
* 84 Perylene-d12	264	28.741	28.762	(1.000)	2882612	40.0000	

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8104.d
Date : 06-DEC-2002 12:05
Client ID: SB325F
Sample Info: SB325F;MB21221

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



961

STL Edison

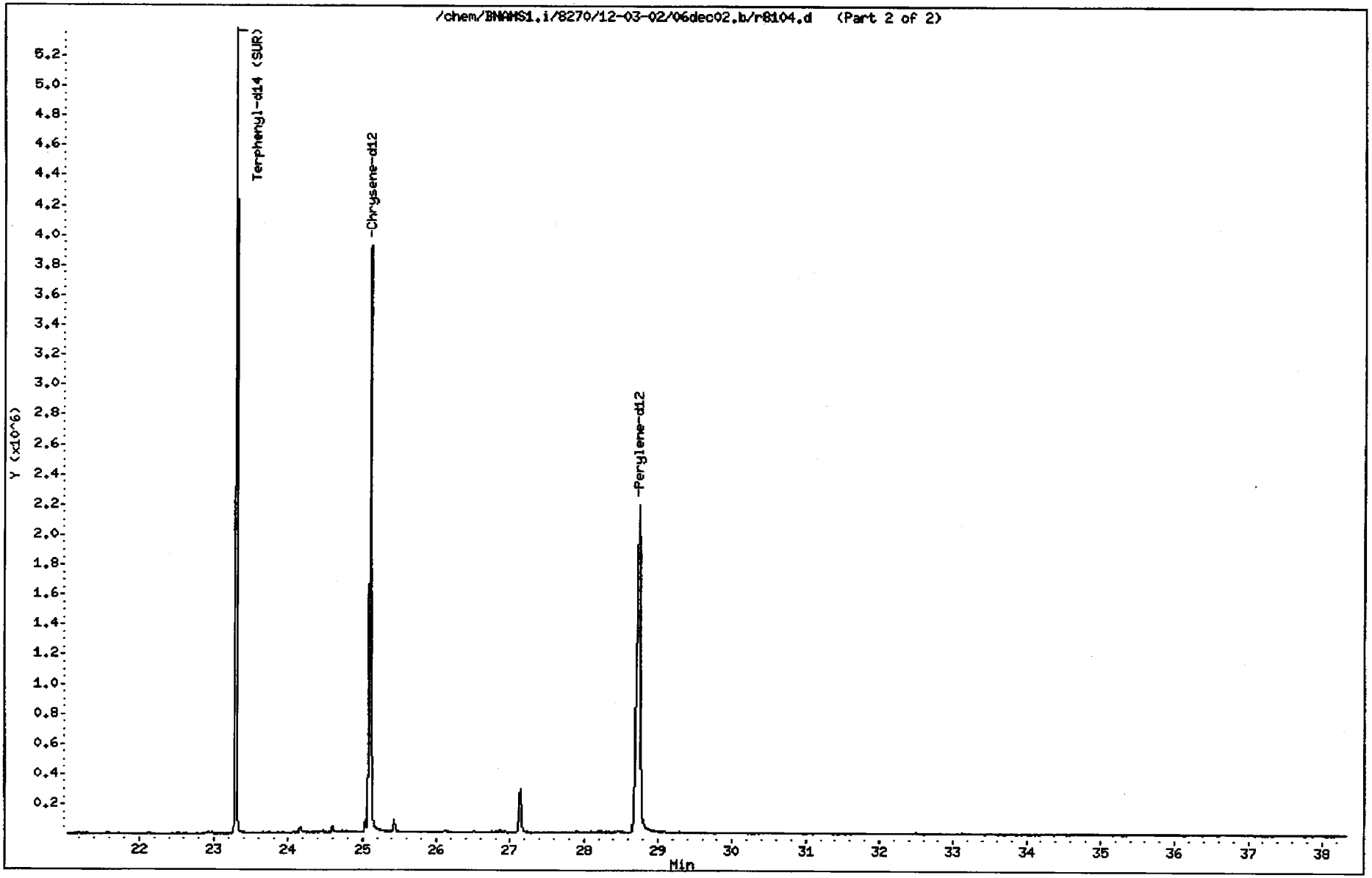
D092

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8104.d
Date : 06-DEC-2002 12:05
Client ID: SB325F
Sample Info: SB325F;MB21221

Instrument: BNAMS1.i

Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



962

STL Edison

D092

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8098.d

Date : 06-DEC-2002 07:45

Client ID:

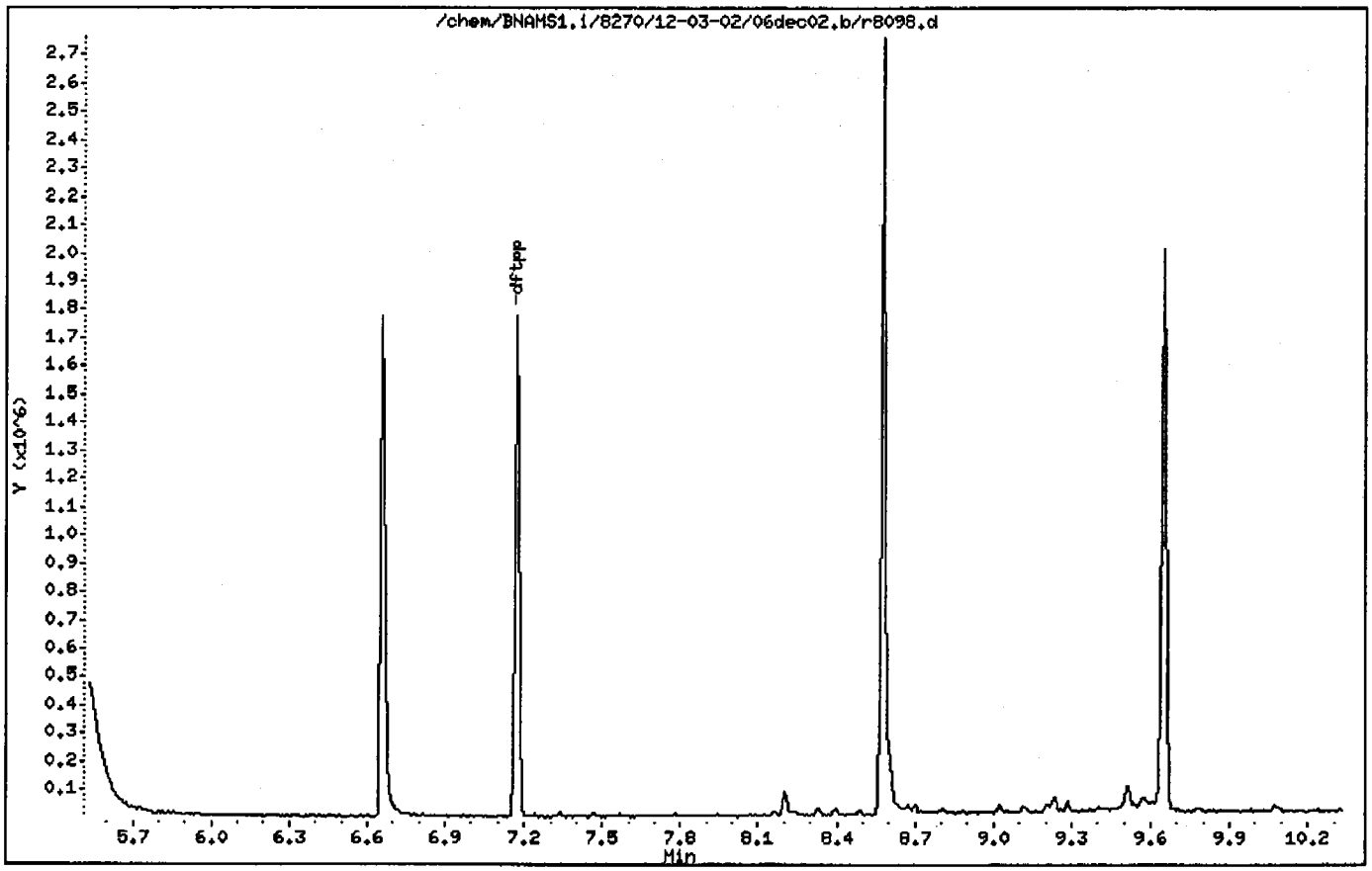
Instrument: BNAMS1.i

Sample Info: RDFT340

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/rB098.d

Date : 06-DEC-2002 07:45

Client ID:

Instrument: BNAMS1.i

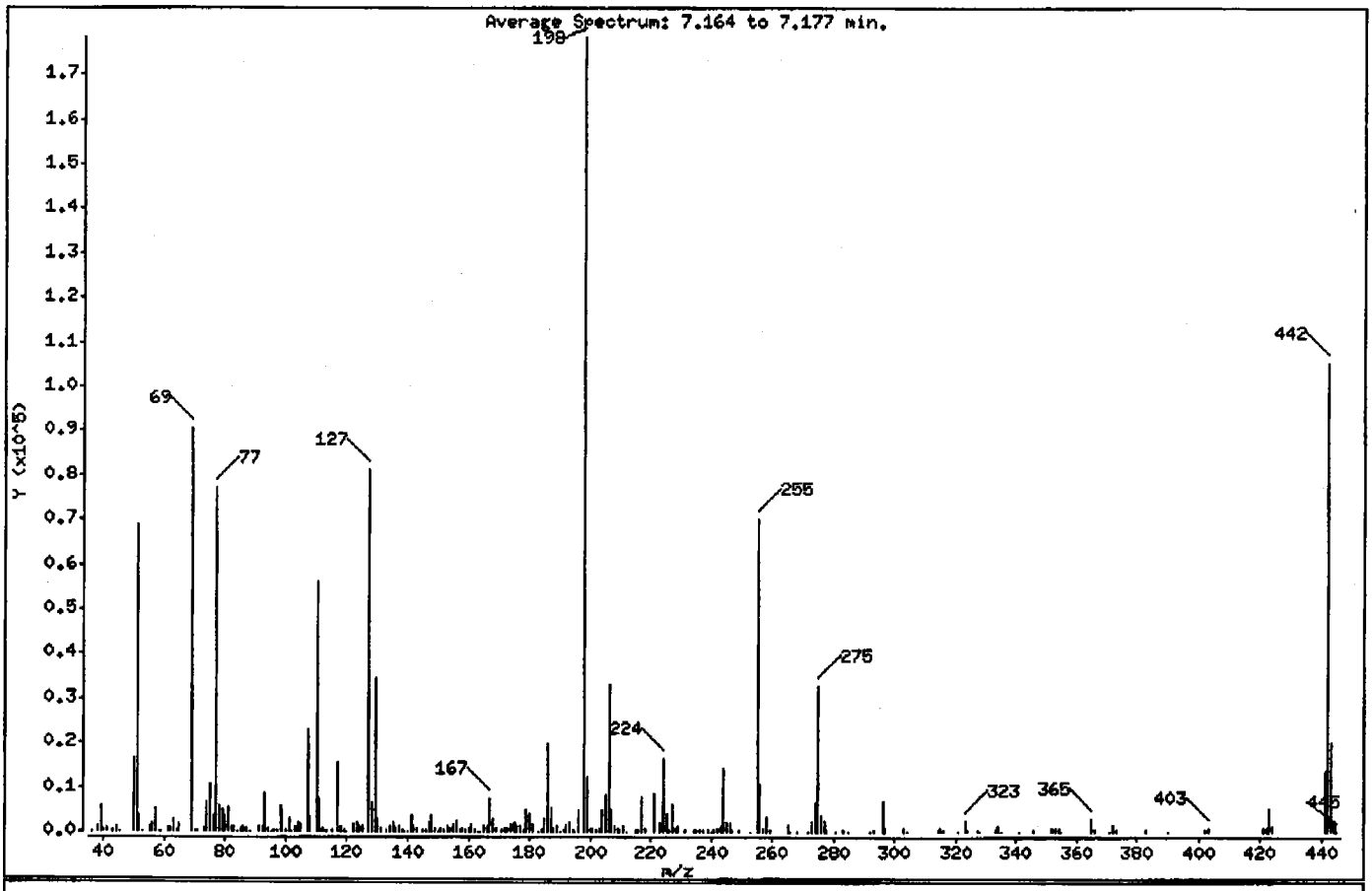
Sample Info: RDFT340

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.64
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	50.90
70	Less than 2.00% of mass 69	0.33 (0.65)
127	40.00 - 60.00% of mass 198	45.59
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.78
275	10.00 - 30.00% of mass 198	18.47
365	Greater than 1.00% of mass 198	1.57
441	0.01 - 100.00% of mass 443	7.49 (65.92)
442	40.00 - 110.00% of mass 198	59.13
443	17.00 - 23.00% of mass 442	11.37 (19.23)

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8098.d

Date : 06-DEC-2002 07:45

Client ID:

Instrument: BNAMS1.i

Sample Info: RDFT340

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: r8098.d

Spectrum: Average Spectrum: 7.164 to 7.177 min.

Location of Maximum: 198.00

Number of points: 239

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	165	112.00	930	179.00	4963	255.00	69976
38.00	1123	113.00	278	180.00	4143	256.00	10578
39.00	5854	115.00	254	181.00	1615	257.00	900
40.00	495	117.00	15777	183.00	102	258.00	3356
41.00	778	118.00	1138	184.00	384	259.00	453
43.00	430	119.00	262	185.00	2914	265.00	1676
44.00	1238	120.00	102	186.00	19760	266.00	136
45.00	102	122.00	1584	187.00	5383	268.00	104
50.00	16274	123.00	1846	188.00	704	272.00	102
51.00	68896	124.00	1408	189.00	1134	273.00	2491
52.00	3736	125.00	1082	190.00	126	274.00	6398
53.00	117	127.00	81296	191.00	385	275.00	32928
55.00	1039	128.00	6632	192.00	1676	276.00	3719
56.00	2232	129.00	34424	193.00	1861	277.00	2273
57.00	5389	130.00	2693	194.00	393	278.00	298
58.00	151	131.00	619	195.00	136	281.00	105
59.00	162	133.00	364	196.00	5051	283.00	212
61.00	976	134.00	1063	198.00	178304	285.00	189
62.00	738	135.00	2112	199.00	12099	292.00	126
63.00	2681	136.00	993	200.00	711	293.00	418
64.00	428	137.00	1075	201.00	864	296.00	6864
65.00	1437	138.00	272	202.00	371	297.00	699
69.00	90768	139.00	100	203.00	930	303.00	646
70.00	588	140.00	194	204.00	4842	304.00	142
71.00	300	141.00	3649	205.00	8064	314.00	439
73.00	968	142.00	1162	206.00	33088	315.00	752
74.00	6500	143.00	716	207.00	4975	316.00	351
75.00	10493	145.00	246	208.00	1094	321.00	132
76.00	3712	146.00	457	209.00	653	323.00	2539
77.00	76936	147.00	2052	210.00	324	324.00	343
78.00	5854	148.00	3578	211.00	1383	327.00	247
79.00	5075	149.00	766	212.00	155	328.00	136
80.00	3506	150.00	149	215.00	389	333.00	288
81.00	5352	151.00	635	216.00	608	334.00	1181
82.00	1087	152.00	389	217.00	7989	335.00	168

Data File: /chem/BNAMS1.i/8270/12-03-02/06dec02.b/r8098.d

Date : 06-DEC-2002 07:45

Client ID:

Instrument: BNAMS1.i

Sample Info: RDFT340

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: r8098.d

Spectrum: Average Spectrum: 7.164 to 7.177 min.

Location of Maximum: 198.00

Number of points: 239

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	1163	153.00	1076	218.00	1000	341.00	106
84.00	105	154.00	967	221.00	8425	346.00	441
85.00	956	155.00	1700	223.00	1993	352.00	676
86.00	1371	156.00	2655	224.00	16432	353.00	621
87.00	778	157.00	356	225.00	4291	354.00	747
88.00	179	158.00	695	226.00	323	355.00	113
91.00	1271	159.00	425	227.00	6065	365.00	2801
92.00	1108	160.00	1004	228.00	874	366.00	319
93.00	8545	161.00	1581	229.00	1216	371.00	111
94.00	792	162.00	323	231.00	463	372.00	1575
95.00	122	163.00	138	234.00	234	373.00	210
96.00	404	164.00	103	235.00	443	383.00	444
97.00	255	165.00	1179	236.00	469	390.00	176
98.00	5799	166.00	1309	237.00	274	402.00	386
99.00	4499	167.00	7212	239.00	291	403.00	694
100.00	311	168.00	2719	240.00	108	421.00	617
101.00	3034	169.00	635	241.00	335	422.00	639
102.00	133	171.00	270	242.00	695	423.00	5317
103.00	1203	172.00	808	243.00	1115	424.00	1061
104.00	1990	173.00	804	244.00	14304	441.00	13362
105.00	1616	174.00	1470	245.00	1997	442.00	105432
107.00	22832	175.00	2003	246.00	1968	443.00	20264
108.00	3313	176.00	1134	247.00	359	444.00	1990
110.00	56232	177.00	1423	249.00	399	445.00	108
111.00	7409	178.00	363	253.00	110		

LAB SAMPLE NO.

SB330

SEMIVOLATILE METHOD BLANK SUMMARY

Matrix: SOIL

Date Analyzed: 12/04/02

Level: LOW

Time Analyzed: 1040

Instrument ID: BNAMS4

Lab File ID: U8240

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	DATE ANALYZED
01	HA-01-09-0-6	392312	U8251	12/04/02
02	HA-02-07-0-6	392323	U8252	12/04/02
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

Client ID: **SB330**
Site:

Lab Sample No: **SB330**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8240.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2,4-Dinitrophenol	ND	1300
4-Nitrophenol	ND	1300
4,6-Dinitro-2-methylphenol	ND	1300
Pentachlorophenol	ND	1300
Benzoic Acid	ND	330
N-Nitrosodimethylamine	ND	330
bis(2-Chloroethyl)ether	ND	33
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-chloroisopropyl)ether	ND	330
N-Nitroso-di-n-propylamine	ND	33
Hexachloroethane	ND	33
Nitrobenzene	ND	33
Isophorone	ND	330
bis(2-Chloroethoxy)methane	ND	330
1,2,4-Trichlorobenzene	ND	33
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	67
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670

Client ID: **SB330**
Site:

Lab Sample No: **SB330**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8240.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	67
3-Nitroaniline	ND	670
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	67
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	670
N-Nitrosodiphenylamine	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	33
Phenanthrene	ND	330
Anthracene	ND	330
Carbazole	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	1300
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	33
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	33
Benzo(k)fluoranthene	ND	33
Benzo(a)pyrene	ND	33
Indeno(1,2,3-cd)pyrene	ND	33
Dibenz(a,h)anthracene	ND	33
Benzo(g,h,i)perylene	ND	330
Pyridine	ND	330

Client ID: **SB330**
Site:

Lab Sample No: **SB330**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8240.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Aniline	ND	330
Benzyl Alcohol	ND	330
1,2-Diphenylhydrazine	ND	330
Diphenyl	ND	330
Diphenyl Ether	ND	330
Acetophenone	ND	330
1,4-Dioxane	ND	330
N,N-Dimethylaniline	ND	33
2,3,7,8-TCDD (Screen)	ND	33
Benzaldehyde	ND	330
Caprolactam	ND	330
Atrazine	ND	330

Client ID: **SB330**
Site:

Lab Sample No: **SB330**
Lab Job No: D092

Date Sampled: _____
Date Received: _____
Date Extracted: 11/26/02
Date Analyzed: 12/04/02
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u8240.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 0.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Aldol Condensate	9.36	4900	
2. Unknown	22.52	540	
3. Unknown	23.69	390	
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 5830

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8240.d
Report Date: 05-Dec-2002 12:17

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8240.d
Lab Smp Id: SB330 Client Smp ID: SB330
Inj Date : 04-DEC-2002 10:40
Operator : BNAMS 4 Inst ID: BNAMS4.i
Smp Info : SB330;MB21388
Misc Info :
Comment :
Method : /chem/BNAMS4.i/8270/12-03-02/04dec02.b/8270c1.m
Meth Date : 04-Dec-2002 10:36 rusin Quant Type: ISTD
Cal Date : 03-DEC-2002 15:11 Cal File: u8223.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1.00000	Volume of final extract (ml)
Ws	15.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

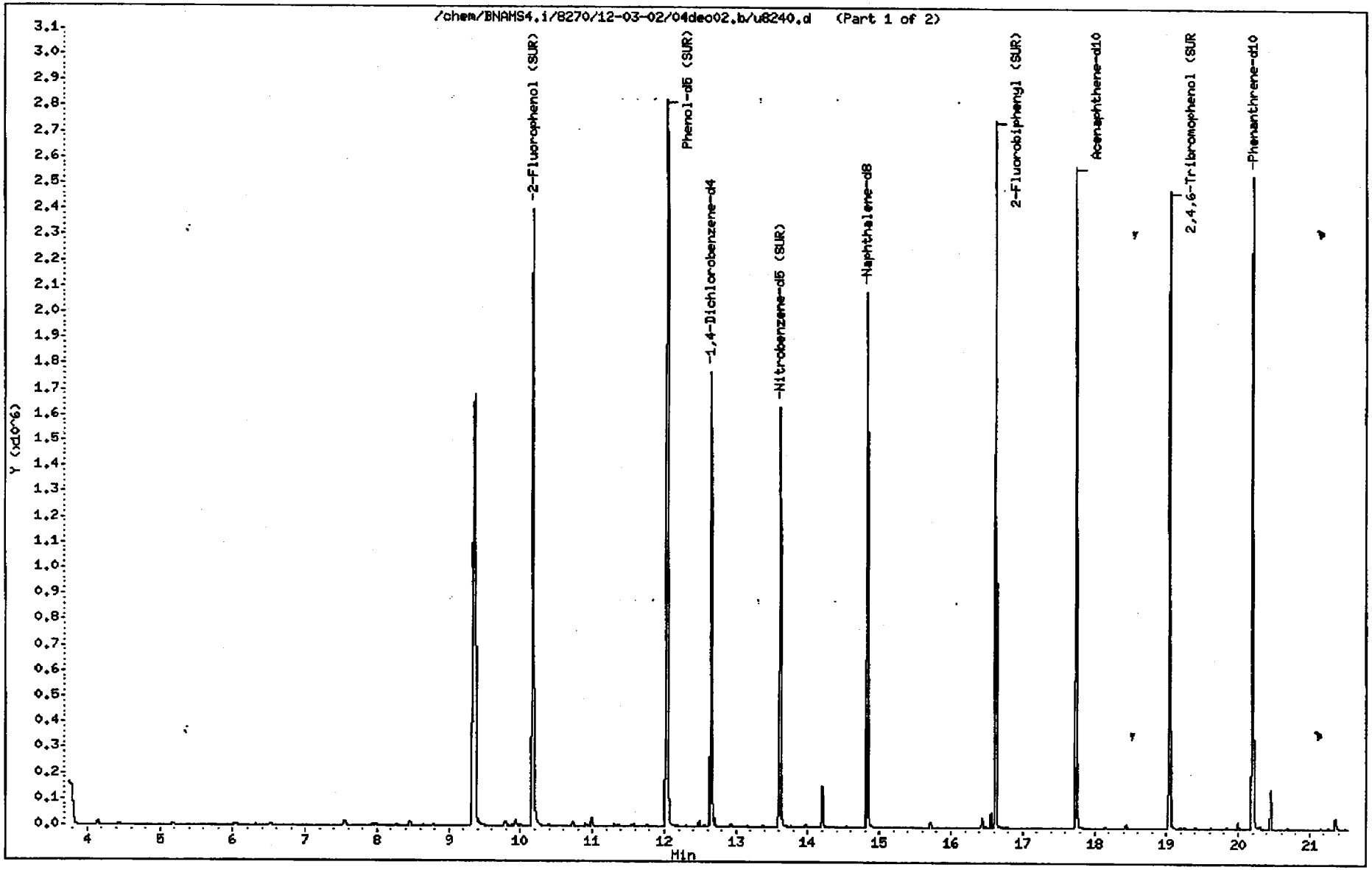
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
$ 16 2-Fluorophenol (SUR)	112	10.176	10.164	(0.804)	744186	71.5599	4800
$ 17 Phenol-d5 (SUR)	99	12.041	12.042	(0.952)	1232181	74.7198	5000
* 79 1,4-Dichlorobenzene-d4	152	12.650	12.652	(1.000)	254551	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	13.616	13.622	(0.918)	757432	36.5616	2400
* 80 Naphthalene-d8	136	14.833	14.837	(1.000)	949912	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	16.625	16.631	(0.937)	845342	40.7328	2700
* 82 Acenaphthene-d10	164	17.749	17.755	(1.000)	640779	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.053	19.053	(1.073)	336468	68.1904	4500
* 83 Phenanthrene-d10	188	20.203	20.210	(1.000)	1239549	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	22.824	22.819	(0.929)	1285403	44.9341	3000
* 81 Chrysene-d12	240	24.561	24.572	(1.000)	1317014	40.0000	
* 84 Perylene-d12	264	27.721	27.740	(1.000)	1214825	40.0000	

Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8240.d
Date : 04-DEC-2002 10:40
Client ID: SB330
Sample Info: SB330;MB21388

Instrument: BNAMS4.i

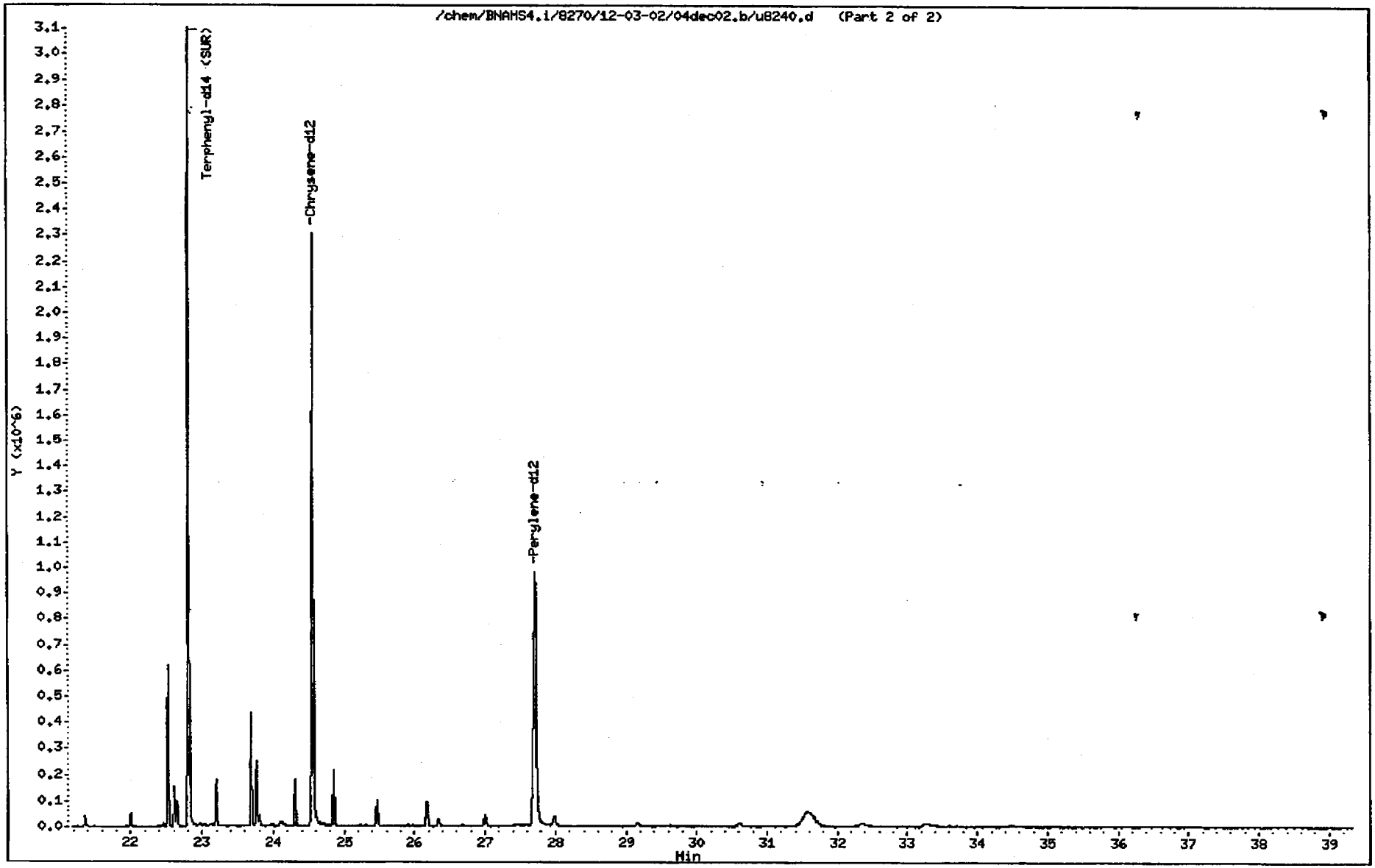
Operator: BNAMS 4
Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNAMS4.i/8270/12-03-02/04dec02.b/u8240.d
Date : 04-DEC-2002 10:40
Client ID: SB330
Sample Info: SB330;MB21388

Column phase: DB-5

Instrument: BNAMS4.i

Operator: BNAMS 4
Column diameter: 0.25