Tetra Tech EM, Inc.

R04DW

Work Order 1009543

90095973

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ALS Environmental

Date: 22-Sep-10

Client: Tetra Tech EM, Inc.
Project: R04DW
Work Order: **1009543**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1009543-01	NCA10-1457-A-SD-09142010	Sediment		9/14/2010 09:30	9/17/2010 08:45	☐
1009543-02	NCA10-1457-A-SWA-09142010	Water		9/14/2010 09:30	9/17/2010 08:45	☐
1009543-03	R4-6-B-SD-09142010	Sediment		9/14/2010 11:10	9/17/2010 08:45	☐
1009543-04	R4-6-B-SWA-09142010	Water		9/14/2010 10:10	9/17/2010 08:45	☐
1009543-05	R4-6-B-SWB-09142010	Water		9/14/2010 10:45	9/17/2010 08:45	☐
1009543-06	R4-83-D-SD-09142010	Sediment		9/14/2010 14:00	9/17/2010 08:45	☐
1009543-07	R4-83-D-SWA-09142010	Water		9/14/2010 12:15	9/17/2010 08:45	☐
1009543-08	R4-83-D-SWB-09142010	Water		9/14/2010 12:40	9/17/2010 08:45	☐
1009543-09	R4-84-C-SD-09142010	Sediment		9/14/2010 16:00	9/17/2010 08:45	☐
1009543-10	R4-84-C-SWA-09142010	Water		9/14/2010 15:12	9/17/2010 08:45	☐
1009543-11	R4-84-C-SWB-09142010	Water		9/14/2010 14:47	9/17/2010 08:45	☐
1009543-12	R4-8-B-SD-09142010	Sediment		9/14/2010 14:50	9/17/2010 08:45	☐
1009543-13	R4-8-B-SWA-09142010	Water		9/14/2010 13:45	9/17/2010 08:45	☐
1009543-14	R4-8-B-SWB-09142010	Water		9/14/2010 14:30	9/17/2010 08:45	☐
1009543-15	TS-09152010	Soil		9/15/2010	9/17/2010 08:45	☐
1009543-16	TB-09152010	Water		9/15/2010	9/17/2010 08:45	☐

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group	LRC Date: 09/22/2010
Project Name: R04DW	Laboratory Job Number: 1009543
Reviewer Name: R. Kevin Given	Prep Batch Number(s) : 46099, 46107, 46108, 46110, 46111, 46112, 46113, 46128, 46129, 46131, 46138, R97323, R97329, R97343, R97360, R97361, R97365, R97366, R97377, R97466, R97471

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**CHAIN-OF-CUSTODY (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		2) Were all departures from standard conditions described in an exception report?	X				
R2	OI	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Was % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	O	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**TEST REPORTS/SUMMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**LABORATORY CONTROL SAMPLES (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits?	X				
R7	OI	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		4) Were MS/MSD RPDs within laboratory QC limits?		X			3
R8	OI	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?		X			4
R9	OI	**METHOD QUANTITATION LIMITS (MQLS):**					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) If requested, is the justification for elevated SDLs documented?	X				5

1 Items identified by the letter "R" should be included in the laboratory data package submitted in o the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3 NA = Not applicable;

4 NR = Not Reviewed;

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 09/22/2010
Project Name: R04DW	Laboratory Job Number: 1009543
Reviewer Name: R. Kevin Given	Prep Batch Number(s): 46099, 46107, 46108, 46110, 46111, 46112, 46113, 46128, 46129, 46131, 46138, R97323, R97329, R97343, R97360, R97361, R97365, R97366, R97377, R97466, R97471

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**MASS SPECTRAL TUNING:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**INTERNAL STANDARDS (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, AND SECTION 5.12 OR**					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**DUAL COLUMN CONFIRMATION**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			6
S10	OI	**PROFICIENCY TEST REPORTS:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S11	OI	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S12	OI	**STANDARDS DOCUMENTATION**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable, (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	OI	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Report		
Laboratory Name: ALS Laboratory Group		LRC Date: 09/22/2010
Project Name: R04DW		Laboratory Job Number: 1009543
Reviewer Name: R. Kevin Given		Prep Batch Number(s): 46099, 46107, 46108, 46110, 46111, 46112, 46113, 46128, 46129, 46131, 46138, R97323, R97329, R97343, R97360, R97361, R97365, R97366, R97377, R97466, R97471
ER #[1]	**DESCRIPTION**	
1	Batch 46110, Semivolatiles: The recovery of Bis (2chloroethyl) ether exceeded control limits for RPD on the LCS/LCSD; however the individual recoveries were within limits	
2	Batch 46113, Ammonia: The MS/MSD was performed on an unrelated sample Batch R97329, Volatiles: The MS/MSD was performed on an unrelated sample Batch R97343, Volatiles: The MS/MSD was performed on an unrelated sample Batch R97471, Volatiles: The MS/MSD was performed on an unrelated sample.	
3	Batch R97343, Volatiles: The MS/MSD was performed on an unrelated sample.	
4	Batch 46138, Mercury: The duplicate was performed on an unrelated sample.	
5	Batch 46111, Metals, Samples NCA10-1457-A-SWA-09142010, R4-6-B-SWA-09142010, R4-6-B-SWB-09142010, R4-83-D-SWA-09142010, R4-83-D-SWB-09142010, R4-84-C-SWA-09142010, R4-84-C-SWB-09142010, R4-8-B-SWA-09142010, and R4-8-B-SWB-09142010 could not be analyzed at lower dilutions due to the high concentrations of Sodium in the sample.	
6	Batch 46111, Metals: The Post Digestion Spike was performed on an unrelated sample. Batch 46112, Metals: The Serial Dilution was performed on an unrelated sample.	

1 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Analytical Report

Tetra Tech EM, Inc.
R04DW
Work Order 1009543

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SD-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-01
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			Method: **SW8015M**		Prep: SW3541 / 9/17/10		Analyst: **RPM**
TPH (Oil Range)	**2.5**	J	**1.7**	**12**	**mg/Kg-dry**	1	9/19/2010 22:14
TPH (Diesel Range)	U		1.7	5.8	mg/Kg-dry	1	9/19/2010 22:14
Surr: 2-Fluorobiphenyl	*73.5*			*70-130*	*%REC*	1	9/19/2010 22:14
GASOLINE RANGE ORGANICS			Method: **SW8015**				Analyst: **KKP**
Gasoline Range Organics	U		0.082	0.21	mg/Kg-dry	1.196	9/17/2010 22:29
Surr: 4-Bromofluorobenzene	*103*			*70-130*	*%REC*	1.196	9/17/2010 22:29
MERCURY			Method: **SW7471A**		Prep: SW7471A / 9/18/10		Analyst: **ALR**
Mercury	**64.9**		**0.72**	**11.9**	**µg/Kg-dry**	1	9/18/2010 17:53
METALS			Method: **SW6020**		Prep: SW3050A / 9/17/10		Analyst: **ALR**
Aluminum	**11,800**		**65**	**323**	**mg/Kg-dry**	100	9/18/2010 20:39
Antimony	U		0.81	1.62	mg/Kg-dry	1	9/19/2010 00:49
Arsenic	**9.52**		**0.19**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
Barium	**38.6**		**0.26**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
Beryllium	**1.08**	J	**0.16**	**1.62**	**mg/Kg-dry**	1	9/20/2010 15:27
Cadmium	U		0.13	1.62	mg/Kg-dry	1	9/19/2010 00:49
Calcium	**2,180**		**32**	**162**	**mg/Kg-dry**	1	9/19/2010 00:49
Chromium	**17.0**		**0.16**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
Cobalt	**8.44**		**0.097**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
Copper	**10.5**		**0.45**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
Iron	**20,300**		**13**	**162**	**mg/Kg-dry**	1	9/19/2010 00:49
Lead	**17.8**		**0.16**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
Magnesium	**6,700**		**11**	**162**	**mg/Kg-dry**	1	9/19/2010 00:49
Manganese	**826**		**23**	**162**	**mg/Kg-dry**	100	9/18/2010 20:39
Nickel	**13.5**		**0.19**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
Potassium	**3,850**		**12**	**162**	**mg/Kg-dry**	1	9/19/2010 00:49
Selenium	**1.84**		**0.81**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
Silver	U		0.13	1.62	mg/Kg-dry	1	9/19/2010 00:49
Sodium	**16,800**		**13**	**162**	**mg/Kg-dry**	1	9/19/2010 00:49
Thallium	**0.380**	J	**0.23**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
Vanadium	**28.3**		**0.23**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
Zinc	**58.5**		**0.81**	**1.62**	**mg/Kg-dry**	1	9/19/2010 00:49
PARENT/ALKYL PAHS			Method: **SW8270SIM**		Prep: SW3541 / 9/17/10		Analyst: **HV**
1-Methylnaphthalene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
2-Methylnaphthalene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
2-Methylnaphthalene-d10	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Acenaphthene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SD-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-01
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Anthracene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Benz(a)anthracene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Benzo(a)pyrene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Benzo(b)fluoranthene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Benzo(e)pyrene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Benzo(g,h,i)perylene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Benzo(k)fluoranthene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C1-Chrysenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C1-Fluoranthenes/Pyrenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C1-Fluorenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C1-Phenanthrenes/anthracenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C2-Chrysenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C2-Fluoranthenes/Pyrenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C2-Fluorenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C2-naphthalenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C2-Phenanthrenes/anthracenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C3-Chrysenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C3-Fluoranthenes/Pyrenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C3-Fluorenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C3-naphthalenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C3-Phenanthrenes/anthracenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C4-Chrysenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C4-Naphthalenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
C4-Phenanthrenes/anthracenes	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Chrysene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Dibenz(a,h)anthracene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Fluoranthene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Fluorene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Indeno(1,2,3-cd)pyrene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Naphthalene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Perylene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Phenanthrene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Pyrene	U		6.9	11	ug/Kg-dry	1	9/17/2010 23:39
Surr: Acenaphthylene-d8	*62.9*			*20-97*	*%REC*	1	9/17/2010 23:39
Surr: Anthracene-d10	*62.3*			*22-98*	*%REC*	1	9/17/2010 23:39
Surr: Benzo(a)pyrene-d12	*75.4*			*43-111*	*%REC*	1	9/17/2010 23:39
Surr: Pyrene-d10	*72.8*			*51-120*	*%REC*	1	9/17/2010 23:39
LOW-LEVEL SEMIVOLATILES			Method: **SW8270**		Prep: SW3541 / 9/17/10		Analyst: **KMB**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SD-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-01
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		9.9	23	µg/Kg-dry	1	9/18/2010 00:53
2,4,5-Trichlorophenol	U		9.6	23	µg/Kg-dry	1	9/18/2010 00:53
2,4,6-Trichlorophenol	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
2,4-Dichlorophenol	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
2,4-Dimethylphenol	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
2,4-Dinitrophenol	U		11	110	µg/Kg-dry	1	9/18/2010 00:53
2,4-Dinitrotoluene	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
2,6-Dinitrotoluene	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
2-Chloronaphthalene	U		14	23	µg/Kg-dry	1	9/18/2010 00:53
2-Chlorophenol	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
2-Methylnaphthalene	U		9.3	23	µg/Kg-dry	1	9/18/2010 00:53
2-Methylphenol	U		9.9	23	µg/Kg-dry	1	9/18/2010 00:53
2-Nitroaniline	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
2-Nitrophenol	U		16	23	µg/Kg-dry	1	9/18/2010 00:53
3&4-Methylphenol	U		9.6	23	µg/Kg-dry	1	9/18/2010 00:53
3,3'-Dichlorobenzidine	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
3-Nitroaniline	U		8.9	23	µg/Kg-dry	1	9/18/2010 00:53
4,6-Dinitro-2-methylphenol	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
4-Bromophenyl phenyl ether	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
4-Chloro-3-methylphenol	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
4-Chloroaniline	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
4-Chlorophenyl phenyl ether	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
4-Nitroaniline	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
4-Nitrophenol	U		13	110	µg/Kg-dry	1	9/18/2010 00:53
Acenaphthene	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
Acenaphthylene	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
Acetophenone	U		8.2	23	µg/Kg-dry	1	9/18/2010 00:53
Anthracene	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
Atrazine	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
Benz(a)anthracene	U		9.6	23	µg/Kg-dry	1	9/18/2010 00:53
Benzaldehyde	U		16	23	µg/Kg-dry	1	9/18/2010 00:53
Benzo(a)pyrene	U		7.9	23	µg/Kg-dry	1	9/18/2010 00:53
Benzo(b)fluoranthene	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
Benzo(g,h,i)perylene	U		9.9	23	µg/Kg-dry	1	9/18/2010 00:53
Benzo(k)fluoranthene	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
Bis(2-chloroethoxy)methane	U		8.2	23	µg/Kg-dry	1	9/18/2010 00:53
Bis(2-chloroethyl)ether	U		9.6	23	µg/Kg-dry	1	9/18/2010 00:53
Bis(2-chloroisopropyl)ether	U		9.3	23	µg/Kg-dry	1	9/18/2010 00:53
Bis(2-ethylhexyl)phthalate	**39**		**23**	**23**	**µg/Kg-dry**	1	9/18/2010 00:53
Butyl benzyl phthalate	U		8.6	23	µg/Kg-dry	1	9/18/2010 00:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SD-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-01
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		8.2	23	µg/Kg-dry	1	9/18/2010 00:53
Carbazole	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
Chrysene	U		9.9	23	µg/Kg-dry	1	9/18/2010 00:53
Di-n-butyl phthalate	U		8.6	23	µg/Kg-dry	1	9/18/2010 00:53
Di-n-octyl phthalate	U		9.9	23	µg/Kg-dry	1	9/18/2010 00:53
Dibenz(a,h)anthracene	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
Dibenzofuran	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
Diethyl phthalate	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
Dimethyl phthalate	U		8.2	23	µg/Kg-dry	1	9/18/2010 00:53
Fluoranthene	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
Fluorene	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
Hexachlorobenzene	U		8.9	23	µg/Kg-dry	1	9/18/2010 00:53
Hexachlorobutadiene	U		15	23	µg/Kg-dry	1	9/18/2010 00:53
Hexachlorocyclopentadiene	U		12	23	µg/Kg-dry	1	9/18/2010 00:53
Hexachloroethane	U		13	23	µg/Kg-dry	1	9/18/2010 00:53
Indeno(1,2,3-cd)pyrene	U		12	23	µg/Kg-dry	1	9/18/2010 00:53
Isophorone	U		10	23	µg/Kg-dry	1	9/18/2010 00:53
N-Nitrosodi-n-propylamine	U		14	23	µg/Kg-dry	1	9/18/2010 00:53
N-Nitrosodiphenylamine	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
Naphthalene	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
Nitrobenzene	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
Pentachlorophenol	U		9.6	23	µg/Kg-dry	1	9/18/2010 00:53
Phenanthrene	U		10	23	µg/Kg-dry	1	9/18/2010 00:53
Phenol	U		11	23	µg/Kg-dry	1	9/18/2010 00:53
Pyrene	U		7.5	23	µg/Kg-dry	1	9/18/2010 00:53
Surr: 2,4,6-Tribromophenol	*63.7*			*36-126*	*%REC*	1	9/18/2010 00:53
Surr: 2-Fluorobiphenyl	*59.0*			*43-125*	*%REC*	1	9/18/2010 00:53
Surr: 2-Fluorophenol	*59.1*			*37-125*	*%REC*	1	9/18/2010 00:53
Surr: 4-Terphenyl-d14	*80.4*			*32-125*	*%REC*	1	9/18/2010 00:53
Surr: Nitrobenzene-d5	*62.3*			*37-125*	*%REC*	1	9/18/2010 00:53
Surr: Phenol-d6	*63.1*			*40-125*	*%REC*	1	9/18/2010 00:53
TCL VOLATILES		Method: **SW8260**					Analyst: **WLR**
1,1,1-Trichloroethane	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,1,2,2-Tetrachloroethane	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,1,2-Trichlor-1,2,2-trifluoroethane	U		1.6	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,1,2-Trichloroethane	U		2.2	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,1-Dichloroethane	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,1-Dichloroethene	U		2.2	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,2,4-Trichlorobenzene	U		1.9	13	µg/Kg-dry	0.785	9/18/2010 13:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SD-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-01
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		5.1	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,2-Dibromoethane	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,2-Dichlorobenzene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,2-Dichloroethane	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,2-Dichloropropane	U		1.9	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,3-Dichlorobenzene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
1,4-Dichlorobenzene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
2-Butanone	**31**		**5.1**	**27**	**µg/Kg-dry**	0.785	9/18/2010 13:44
2-Hexanone	U		3.0	27	µg/Kg-dry	0.785	9/18/2010 13:44
4-Methyl-2-pentanone	U		2.7	27	µg/Kg-dry	0.785	9/18/2010 13:44
Acetone	**180**		**13**	**67**	**µg/Kg-dry**	0.785	9/18/2010 13:44
Benzene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Bromodichloromethane	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Bromoform	U		2.2	27	µg/Kg-dry	0.785	9/18/2010 13:44
Bromomethane	U		2.7	27	µg/Kg-dry	0.785	9/18/2010 13:44
Carbon disulfide	**15**	J	**2.7**	**27**	**µg/Kg-dry**	0.785	9/18/2010 13:44
Carbon tetrachloride	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Chlorobenzene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Chloroethane	U		2.7	27	µg/Kg-dry	0.785	9/18/2010 13:44
Chloroform	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Chloromethane	U		2.7	27	µg/Kg-dry	0.785	9/18/2010 13:44
cis-1,2-Dichloroethene	U		1.6	13	µg/Kg-dry	0.785	9/18/2010 13:44
cis-1,3-Dichloropropene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Cyclohexane	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Dibromochloromethane	U		1.6	13	µg/Kg-dry	0.785	9/18/2010 13:44
Dichlorodifluoromethane	U		2.2	13	µg/Kg-dry	0.785	9/18/2010 13:44
Dichloromethane	U		3.8	27	µg/Kg-dry	0.785	9/18/2010 13:44
Ethylbenzene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Isopropylbenzene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
m,p-Xylene	U		2.7	27	µg/Kg-dry	0.785	9/18/2010 13:44
Methyl acetate	U		3.2	13	µg/Kg-dry	0.785	9/18/2010 13:44
Methyl tert-butyl ether	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Methylcyclohexane	U		1.6	13	µg/Kg-dry	0.785	9/18/2010 13:44
o-Xylene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Styrene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Tetrachloroethene	U		1.6	13	µg/Kg-dry	0.785	9/18/2010 13:44
Toluene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
trans-1,2-Dichloroethene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
trans-1,3-Dichloropropene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Trichloroethene	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SD-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-01
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		1.3	13	µg/Kg-dry	0.785	9/18/2010 13:44
Vinyl chloride	U		2.7	5.4	µg/Kg-dry	0.785	9/18/2010 13:44
Xylenes, Total	U		2.7	40	µg/Kg-dry	0.785	9/18/2010 13:44
Surr: 1,2-Dichloroethane-d4	*109*			*70-128*	*%REC*	0.785	9/18/2010 13:44
Surr: 4-Bromofluorobenzene	*96.4*			*73-126*	*%REC*	0.785	9/18/2010 13:44
Surr: Dibromofluoromethane	*110*			*71-128*	*%REC*	0.785	9/18/2010 13:44
Surr: Toluene-d8	*105*			*73-127*	*%REC*	0.785	9/18/2010 13:44
MISCELLANEOUS ANALYSIS		Method: **NA**					Analyst: **HN**
Miscellaneous Analysis	**See Attached**		**0**		**-dry**	1	9/17/2010
MOISTURE		Method: **E160.3**					Analyst: **JLC**
Percent Moisture	**70.8**		**0.010**	**0.0100**	**wt%**	1	9/17/2010 12:00
AMMONIA AS N		Method: **SM4500 NH3-B-F**			Prep: M4500-NH3 BE / 9/17/10		Analyst: **IAB**
Nitrogen, Ammonia (as N)	**1,700**		**9.3**	**48.6**	**mg/Kg-dry**	2	9/17/2010 15:00
TOTAL ORGANIC CARBON		Method: **WALKLEY-BLACK**					Analyst: **JLC**
Total Organic Carbon	**0.968**		**0.020**	**0.0200**	**wt%**	1	9/20/2010 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SWA-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			Method: **SW8015M**		Prep: SW3510C / 9/18/10		Analyst: **RPM**
TPH (Oil Range)	U		0.020	0.10	mg/L	1	9/18/2010 12:15
TPH (Diesel Range)	U		0.020	0.050	mg/L	1	9/18/2010 12:15
Surr: 2-Fluorobiphenyl	*83.3*			*70-130*	*%REC*	1	9/18/2010 12:15
GASOLINE RANGE ORGANICS			Method: **SW8015**				Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.0500	mg/L	1	9/21/2010 13:30
Surr: 4-Bromofluorobenzene	*114*			*70-130*	*%REC*	1	9/21/2010 13:30
MERCURY			Method: **SW7470**		Prep: SW7470 / 9/17/10		Analyst: **ALR**
Mercury	U		0.000042	0.000200	mg/L	1	9/18/2010 17:00
METALS			Method: **SW6020**		Prep: SW3010A / 9/17/10		Analyst: **ALR**
Aluminum	**0.521**		**0.074**	**0.200**	**mg/L**	20	9/18/2010 16:34
Antimony	U		0.010	0.100	mg/L	20	9/18/2010 16:34
Arsenic	U		0.018	0.100	mg/L	20	9/18/2010 16:34
Barium	**0.0455**	J	**0.014**	**0.100**	**mg/L**	20	9/18/2010 16:34
Beryllium	U		0.0060	0.0400	mg/L	20	9/18/2010 16:34
Cadmium	U		0.012	0.0400	mg/L	20	9/18/2010 16:34
Calcium	**254**		**1.0**	**10.0**	**mg/L**	20	9/18/2010 16:34
Chromium	U		0.012	0.100	mg/L	20	9/18/2010 16:34
Cobalt	U		0.010	0.100	mg/L	20	9/18/2010 16:34
Copper	U		0.010	0.100	mg/L	20	9/18/2010 16:34
Iron	U		0.72	4.00	mg/L	20	9/18/2010 16:34
Lead	**0.0100**	J	**0.0080**	**0.100**	**mg/L**	20	9/18/2010 16:34
Magnesium	**654**		**3.9**	**20.0**	**mg/L**	100	9/18/2010 15:36
Manganese	**0.0506**	J	**0.016**	**0.100**	**mg/L**	20	9/18/2010 16:34
Nickel	**0.0128**	J	**0.0070**	**0.0250**	**mg/L**	5	9/18/2010 17:49
Potassium	**225**		**2.0**	**4.00**	**mg/L**	20	9/18/2010 16:34
Selenium	U		0.050	0.100	mg/L	20	9/18/2010 16:34
Silver	U		0.014	0.100	mg/L	20	9/18/2010 16:34
Sodium	**5,450**		**10**	**20.0**	**mg/L**	100	9/18/2010 15:36
Thallium	U		0.016	0.0400	mg/L	20	9/18/2010 16:34
Vanadium	U		0.014	0.100	mg/L	20	9/18/2010 16:34
Zinc	U		0.050	0.100	mg/L	20	9/18/2010 16:34
PARENT/ALKYL PAH			Method: **SW8270SIM**		Prep: SW3520A / 9/18/10		Analyst: **HV**
1-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
2-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
2-Methylnaphthalene-d10	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Acenaphthene	U		0.050	0.10	ug/L	1	9/19/2010 21:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SWA-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Anthracene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Benz(a)anthracene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Benzo(a)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Benzo(b)fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Benzo(e)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Benzo(g,h,i)perylene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Benzo(k)fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C1-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C1-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C1-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C1-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C2-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C2-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C2-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C2-naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C2-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C3-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C3-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C3-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C3-naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C3-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C4-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C4-Naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
C4-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Chrysene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Dibenz(a,h)anthracene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Fluorene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Indeno(1,2,3-cd)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Naphthalene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Perylene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Phenanthrene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Pyrene	U		0.050	0.10	ug/L	1	9/19/2010 21:24
Surr: Acenaphthylene-d8	*69.9*			*41-107*	*%REC*	1	9/19/2010 21:24
Surr: Anthracene-d10	*71.6*			*44-110*	*%REC*	1	9/19/2010 21:24
Surr: Benzo(a)pyrene-d12	*72.0*			*32-121*	*%REC*	1	9/19/2010 21:24
Surr: Pyrene-d10	*73.0*			*52-119*	*%REC*	1	9/19/2010 21:24
LOW-LEVEL SEMIVOLATILES			Method: **SW8270**		Prep: SW3510 / 9/18/10		Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SWA-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		0.10	0.20	µg/L	1	9/18/2010 17:54
2,4,5-Trichlorophenol	U		0.090	0.20	µg/L	1	9/18/2010 17:54
2,4,6-Trichlorophenol	U		0.070	0.20	µg/L	1	9/18/2010 17:54
2,4-Dichlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 17:54
2,4-Dimethylphenol	U		0.080	0.20	µg/L	1	9/18/2010 17:54
2,4-Dinitrophenol	U		0.080	1.0	µg/L	1	9/18/2010 17:54
2,4-Dinitrotoluene	U		0.090	0.20	µg/L	1	9/18/2010 17:54
2,6-Dinitrotoluene	U		0.070	0.20	µg/L	1	9/18/2010 17:54
2-Chloronaphthalene	U		0.10	0.20	µg/L	1	9/18/2010 17:54
2-Chlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 17:54
2-Methylnaphthalene	U		0.070	0.20	µg/L	1	9/18/2010 17:54
2-Methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 17:54
2-Nitroaniline	U		0.10	0.20	µg/L	1	9/18/2010 17:54
2-Nitrophenol	U		0.070	0.20	µg/L	1	9/18/2010 17:54
3&4-Methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 17:54
3,3'-Dichlorobenzidine	U		0.070	0.20	µg/L	1	9/18/2010 17:54
3-Nitroaniline	U		0.080	0.20	µg/L	1	9/18/2010 17:54
4,6-Dinitro-2-methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 17:54
4-Bromophenyl phenyl ether	U		0.090	0.20	µg/L	1	9/18/2010 17:54
4-Chloro-3-methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 17:54
4-Chloroaniline	U		0.070	0.20	µg/L	1	9/18/2010 17:54
4-Chlorophenyl phenyl ether	U		0.080	0.20	µg/L	1	9/18/2010 17:54
4-Nitroaniline	U		0.070	0.20	µg/L	1	9/18/2010 17:54
4-Nitrophenol	U		0.070	1.0	µg/L	1	9/18/2010 17:54
Acenaphthene	U		0.090	0.20	µg/L	1	9/18/2010 17:54
Acenaphthylene	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Acetophenone	U		0.10	0.20	µg/L	1	9/18/2010 17:54
Anthracene	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Atrazine	U		0.080	0.20	µg/L	1	9/18/2010 17:54
Benz(a)anthracene	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Benzaldehyde	U		0.12	0.20	µg/L	1	9/18/2010 17:54
Benzo(a)pyrene	U		0.080	0.20	µg/L	1	9/18/2010 17:54
Benzo(b)fluoranthene	U		0.090	0.20	µg/L	1	9/18/2010 17:54
Benzo(g,h,i)perylene	U		0.090	0.20	µg/L	1	9/18/2010 17:54
Benzo(k)fluoranthene	U		0.10	0.20	µg/L	1	9/18/2010 17:54
Bis(2-chloroethoxy)methane	U		0.090	0.20	µg/L	1	9/18/2010 17:54
Bis(2-chloroethyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Bis(2-chloroisopropyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Bis(2-ethylhexyl)phthalate	**1.9**		**0.20**	**0.20**	**µg/L**	1	9/18/2010 17:54
Butyl benzyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 17:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SWA-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		0.080	0.20	µg/L	1	9/18/2010 17:54
Carbazole	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Chrysene	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Di-n-butyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Di-n-octyl phthalate	U		0.11	0.20	µg/L	1	9/18/2010 17:54
Dibenz(a,h)anthracene	U		0.080	0.20	µg/L	1	9/18/2010 17:54
Dibenzofuran	U		0.080	0.20	µg/L	1	9/18/2010 17:54
Diethyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Dimethyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 17:54
Fluoranthene	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Fluorene	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Hexachlorobenzene	U		0.10	0.20	µg/L	1	9/18/2010 17:54
Hexachlorobutadiene	U		0.15	0.20	µg/L	1	9/18/2010 17:54
Hexachlorocyclopentadiene	U		0.080	0.20	µg/L	1	9/18/2010 17:54
Hexachloroethane	U		0.17	0.20	µg/L	1	9/18/2010 17:54
Indeno(1,2,3-cd)pyrene	U		0.10	0.20	µg/L	1	9/18/2010 17:54
Isophorone	U		0.070	0.20	µg/L	1	9/18/2010 17:54
N-Nitrosodi-n-propylamine	U		0.10	0.20	µg/L	1	9/18/2010 17:54
N-Nitrosodiphenylamine	U		0.090	0.20	µg/L	1	9/18/2010 17:54
Naphthalene	U		0.10	0.20	µg/L	1	9/18/2010 17:54
Nitrobenzene	U		0.090	0.20	µg/L	1	9/18/2010 17:54
Pentachlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 17:54
Phenanthrene	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Phenol	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Pyrene	U		0.070	0.20	µg/L	1	9/18/2010 17:54
Surr: 2,4,6-Tribromophenol	*48.2*			*34-129*	*%REC*	1	9/18/2010 17:54
Surr: 2-Fluorobiphenyl	*50.1*			*40-125*	*%REC*	1	9/18/2010 17:54
Surr: 2-Fluorophenol	*47.0*			*20-120*	*%REC*	1	9/18/2010 17:54
Surr: 4-Terphenyl-d14	*68.7*			*40-135*	*%REC*	1	9/18/2010 17:54
Surr: Nitrobenzene-d5	*50.6*			*41-120*	*%REC*	1	9/18/2010 17:54
Surr: Phenol-d6	*47.7*			*20-120*	*%REC*	1	9/18/2010 17:54
TCL VOLATILES		Method: **SW8260**					Analyst: **PC**
1,1,1-Trichloroethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/L	1	9/21/2010 12:41
1,1,2-Trichloroethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
1,1-Dichloroethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
1,1-Dichloroethene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
1,2,4-Trichlorobenzene	U		0.50	5.0	µg/L	1	9/21/2010 12:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SWA-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.0	5.0	µg/L	1	9/21/2010 12:41
1,2-Dibromoethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
1,2-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
1,2-Dichloroethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
1,2-Dichloropropane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
1,3-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
1,4-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
2-Butanone	U		0.80	10	µg/L	1	9/21/2010 12:41
2-Hexanone	U		1.0	10	µg/L	1	9/21/2010 12:41
4-Methyl-2-pentanone	U		1.0	10	µg/L	1	9/21/2010 12:41
Acetone	U		1.0	10	µg/L	1	9/21/2010 12:41
Benzene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Bromodichloromethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Bromoform	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Bromomethane	U		0.90	5.0	µg/L	1	9/21/2010 12:41
Carbon disulfide	U		1.0	10	µg/L	1	9/21/2010 12:41
Carbon tetrachloride	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Chlorobenzene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Chloroethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Chloroform	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Chloromethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
cis-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
cis-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Cyclohexane	U		0.60	5.0	µg/L	1	9/21/2010 12:41
Dibromochloromethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Dichlorodifluoromethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Dichloromethane	U		0.50	10	µg/L	1	9/21/2010 12:41
Ethylbenzene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Isopropylbenzene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
m,p-Xylene	U		1.0	10	µg/L	1	9/21/2010 12:41
Methyl acetate	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Methyl tert-butyl ether	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Methylcyclohexane	U		0.80	5.0	µg/L	1	9/21/2010 12:41
o-Xylene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Styrene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Tetrachloroethene	U		0.60	5.0	µg/L	1	9/21/2010 12:41
Toluene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
trans-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
trans-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Trichloroethene	U		0.50	5.0	µg/L	1	9/21/2010 12:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: NCA10-1457-A-SWA-09142010
Collection Date: 9/14/2010 09:30 AM

Work Order: 1009543
Lab ID: 1009543-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.50	5.0	µg/L	1	9/21/2010 12:41
Vinyl chloride	U		0.50	2.0	µg/L	1	9/21/2010 12:41
Xylenes, Total	U		1.0	15	µg/L	1	9/21/2010 12:41
Surr: 1,2-Dichloroethane-d4	*113*			*70-125*	*%REC*	1	9/21/2010 12:41
Surr: 4-Bromofluorobenzene	*92.2*			*72-125*	*%REC*	1	9/21/2010 12:41
Surr: Dibromofluoromethane	*108*			*71-125*	*%REC*	1	9/21/2010 12:41
Surr: Toluene-d8	*99.6*			*75-125*	*%REC*	1	9/21/2010 12:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SD-09142010
Collection Date: 9/14/2010 11:10 AM

Work Order: 1009543
Lab ID: 1009543-03
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			Method: **SW8015M**		Prep: SW3541 / 9/17/10		Analyst: **RPM**
TPH (Oil Range)	**3.2**	J	**1.3**	**8.8**	**mg/Kg-dry**	1	9/19/2010 22:33
TPH (Diesel Range)	U		1.3	4.4	mg/Kg-dry	1	9/19/2010 22:33
Surr: 2-Fluorobiphenyl	*82.5*			*70-130*	*%REC*	1	9/19/2010 22:33
GASOLINE RANGE ORGANICS			Method: **SW8015**				Analyst: **KKP**
Gasoline Range Organics	**0.099**	J	**0.050**	**0.12**	**mg/Kg-dry**	0.958	9/17/2010 22:11
Surr: 4-Bromofluorobenzene	*99.2*			*70-130*	*%REC*	0.958	9/17/2010 22:11
MERCURY			Method: **SW7471A**		Prep: SW7471A / 9/18/10		Analyst: **ALR**
Mercury	**44.0**		**0.53**	**8.85**	**µg/Kg-dry**	1	9/18/2010 17:55
METALS			Method: **SW6020**		Prep: SW3050A / 9/17/10		Analyst: **ALR**
Aluminum	**9,920**		**46**	**228**	**mg/Kg-dry**	100	9/18/2010 20:45
Antimony	U		0.57	1.14	mg/Kg-dry	1	9/19/2010 00:54
Arsenic	**7.17**		**0.14**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
Barium	**59.9**		**0.18**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
Beryllium	**0.815**	J	**0.11**	**1.14**	**mg/Kg-dry**	1	9/20/2010 15:32
Cadmium	U		0.091	1.14	mg/Kg-dry	1	9/19/2010 00:54
Calcium	**4,710**		**23**	**114**	**mg/Kg-dry**	1	9/19/2010 00:54
Chromium	**15.6**		**0.11**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
Cobalt	**7.25**		**0.068**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
Copper	**10.1**		**0.32**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
Iron	**17,000**		**9.1**	**114**	**mg/Kg-dry**	1	9/19/2010 00:54
Lead	**13.6**		**0.11**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
Magnesium	**6,760**		**7.5**	**114**	**mg/Kg-dry**	1	9/19/2010 00:54
Manganese	**406**		**16**	**114**	**mg/Kg-dry**	100	9/18/2010 20:45
Nickel	**13.4**		**0.14**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
Potassium	**3,500**		**8.2**	**114**	**mg/Kg-dry**	1	9/19/2010 00:54
Selenium	**1.68**		**0.57**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
Silver	U		0.091	1.14	mg/Kg-dry	1	9/19/2010 00:54
Sodium	**16,500**		**9.1**	**114**	**mg/Kg-dry**	1	9/19/2010 00:54
Thallium	**0.188**	J	**0.16**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
Vanadium	**25.0**		**0.16**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
Zinc	**49.8**		**0.57**	**1.14**	**mg/Kg-dry**	1	9/19/2010 00:54
PARENT/ALKYL PAHS			Method: **SW8270SIM**		Prep: SW3541 / 9/17/10		Analyst: **HV**
1-Methylnaphthalene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
2-Methylnaphthalene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
2-Methylnaphthalene-d10	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Acenaphthene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SD-09142010
Collection Date: 9/14/2010 11:10 AM

Work Order: 1009543
Lab ID: 1009543-03
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Anthracene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Benz(a)anthracene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Benzo(a)pyrene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Benzo(b)fluoranthene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Benzo(e)pyrene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Benzo(g,h,i)perylene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Benzo(k)fluoranthene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C1-Chrysenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C1-Fluoranthenes/Pyrenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C1-Fluorenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C1-Phenanthrenes/anthracenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C2-Chrysenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C2-Fluoranthenes/Pyrenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C2-Fluorenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C2-naphthalenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C2-Phenanthrenes/anthracenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C3-Chrysenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C3-Fluoranthenes/Pyrenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C3-Fluorenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C3-naphthalenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C3-Phenanthrenes/anthracenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C4-Chrysenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C4-Naphthalenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
C4-Phenanthrenes/anthracenes	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Chrysene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Dibenz(a,h)anthracene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Fluoranthene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Fluorene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Indeno(1,2,3-cd)pyrene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Naphthalene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Perylene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Phenanthrene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Pyrene	U		5.2	8.6	ug/Kg-dry	1	9/18/2010 00:04
Surr: Acenaphthylene-d8	*71.7*			*20-97*	*%REC*	1	9/18/2010 00:04
Surr: Anthracene-d10	*70.2*			*22-98*	*%REC*	1	9/18/2010 00:04
Surr: Benzo(a)pyrene-d12	*88.5*			*43-111*	*%REC*	1	9/18/2010 00:04
Surr: Pyrene-d10	*81.5*			*51-120*	*%REC*	1	9/18/2010 00:04
LOW-LEVEL SEMIVOLATILES			Method: **SW8270**		Prep: SW3541 / 9/17/10		Analyst: **KMB**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SD-09142010
Collection Date: 9/14/2010 11:10 AM

Work Order: 1009543
Lab ID: 1009543-03
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		7.5	17	µg/Kg-dry	1	9/18/2010 01:12
2,4,5-Trichlorophenol	U		7.3	17	µg/Kg-dry	1	9/18/2010 01:12
2,4,6-Trichlorophenol	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
2,4-Dichlorophenol	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
2,4-Dimethylphenol	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
2,4-Dinitrophenol	U		8.6	86	µg/Kg-dry	1	9/18/2010 01:12
2,4-Dinitrotoluene	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
2,6-Dinitrotoluene	U		8.3	17	µg/Kg-dry	1	9/18/2010 01:12
2-Chloronaphthalene	U		11	17	µg/Kg-dry	1	9/18/2010 01:12
2-Chlorophenol	U		8.3	17	µg/Kg-dry	1	9/18/2010 01:12
2-Methylnaphthalene	U		7.0	17	µg/Kg-dry	1	9/18/2010 01:12
2-Methylphenol	U		7.5	17	µg/Kg-dry	1	9/18/2010 01:12
2-Nitroaniline	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
2-Nitrophenol	U		12	17	µg/Kg-dry	1	9/18/2010 01:12
3&4-Methylphenol	U		7.3	17	µg/Kg-dry	1	9/18/2010 01:12
3,3'-Dichlorobenzidine	U		8.0	17	µg/Kg-dry	1	9/18/2010 01:12
3-Nitroaniline	U		6.7	17	µg/Kg-dry	1	9/18/2010 01:12
4,6-Dinitro-2-methylphenol	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
4-Bromophenyl phenyl ether	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
4-Chloro-3-methylphenol	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
4-Chloroaniline	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
4-Chlorophenyl phenyl ether	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
4-Nitroaniline	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
4-Nitrophenol	U		9.9	86	µg/Kg-dry	1	9/18/2010 01:12
Acenaphthene	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
Acenaphthylene	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
Acetophenone	U		6.2	17	µg/Kg-dry	1	9/18/2010 01:12
Anthracene	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
Atrazine	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
Benz(a)anthracene	U		7.3	17	µg/Kg-dry	1	9/18/2010 01:12
Benzaldehyde	U		12	17	µg/Kg-dry	1	9/18/2010 01:12
Benzo(a)pyrene	U		6.0	17	µg/Kg-dry	1	9/18/2010 01:12
Benzo(b)fluoranthene	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
Benzo(g,h,i)perylene	U		7.5	17	µg/Kg-dry	1	9/18/2010 01:12
Benzo(k)fluoranthene	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
Bis(2-chloroethoxy)methane	U		6.2	17	µg/Kg-dry	1	9/18/2010 01:12
Bis(2-chloroethyl)ether	U		7.3	17	µg/Kg-dry	1	9/18/2010 01:12
Bis(2-chloroisopropyl)ether	U		7.0	17	µg/Kg-dry	1	9/18/2010 01:12
Bis(2-ethylhexyl)phthalate	**53**		**17**	**17**	**µg/Kg-dry**	1	9/18/2010 01:12
Butyl benzyl phthalate	**12**	J	**6.5**	**17**	**µg/Kg-dry**	1	9/18/2010 01:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SD-09142010
Collection Date: 9/14/2010 11:10 AM

Work Order: 1009543
Lab ID: 1009543-03
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		6.2	17	µg/Kg-dry	1	9/18/2010 01:12
Carbazole	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
Chrysene	U		7.5	17	µg/Kg-dry	1	9/18/2010 01:12
Di-n-butyl phthalate	U		6.5	17	µg/Kg-dry	1	9/18/2010 01:12
Di-n-octyl phthalate	U		7.5	17	µg/Kg-dry	1	9/18/2010 01:12
Dibenz(a,h)anthracene	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
Dibenzofuran	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
Diethyl phthalate	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
Dimethyl phthalate	U		6.2	17	µg/Kg-dry	1	9/18/2010 01:12
Fluoranthene	**10**	J	**5.7**	**17**	**µg/Kg-dry**	1	9/18/2010 01:12
Fluorene	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
Hexachlorobenzene	U		6.7	17	µg/Kg-dry	1	9/18/2010 01:12
Hexachlorobutadiene	U		11	17	µg/Kg-dry	1	9/18/2010 01:12
Hexachlorocyclopentadiene	U		9.3	17	µg/Kg-dry	1	9/18/2010 01:12
Hexachloroethane	U		10	17	µg/Kg-dry	1	9/18/2010 01:12
Indeno(1,2,3-cd)pyrene	U		9.1	17	µg/Kg-dry	1	9/18/2010 01:12
Isophorone	U		7.8	17	µg/Kg-dry	1	9/18/2010 01:12
N-Nitrosodi-n-propylamine	U		10	17	µg/Kg-dry	1	9/18/2010 01:12
N-Nitrosodiphenylamine	U		5.7	17	µg/Kg-dry	1	9/18/2010 01:12
Naphthalene	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
Nitrobenzene	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
Pentachlorophenol	U		7.3	17	µg/Kg-dry	1	9/18/2010 01:12
Phenanthrene	U		7.8	17	µg/Kg-dry	1	9/18/2010 01:12
Phenol	U		8.6	17	µg/Kg-dry	1	9/18/2010 01:12
Pyrene	**9.9**	J	**5.7**	**17**	**µg/Kg-dry**	1	9/18/2010 01:12
Surr: 2,4,6-Tribromophenol	*65.7*			*36-126*	*%REC*	1	9/18/2010 01:12
Surr: 2-Fluorobiphenyl	*68.7*			*43-125*	*%REC*	1	9/18/2010 01:12
Surr: 2-Fluorophenol	*62.6*			*37-125*	*%REC*	1	9/18/2010 01:12
Surr: 4-Terphenyl-d14	*81.9*			*32-125*	*%REC*	1	9/18/2010 01:12
Surr: Nitrobenzene-d5	*62.4*			*37-125*	*%REC*	1	9/18/2010 01:12
Surr: Phenol-d6	*70.5*			*40-125*	*%REC*	1	9/18/2010 01:12
TCL VOLATILES		Method: **SW8260**					Analyst: **WLR**
1,1,1-Trichloroethane	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,1,2,2-Tetrachloroethane	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,1,2-Trichlor-1,2,2-trifluoroethane	U		1.8	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,1,2-Trichloroethane	U		2.3	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,1-Dichloroethane	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,1-Dichloroethene	U		2.3	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,2,4-Trichlorobenzene	U		2.0	15	µg/Kg-dry	1.124	9/18/2010 14:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SD-09142010
Collection Date: 9/14/2010 11:10 AM

Work Order: 1009543
Lab ID: 1009543-03
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		5.6	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,2-Dibromoethane	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,2-Dichlorobenzene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,2-Dichloroethane	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,2-Dichloropropane	U		2.0	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,3-Dichlorobenzene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
1,4-Dichlorobenzene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
2-Butanone	U		5.6	29	µg/Kg-dry	1.124	9/18/2010 14:11
2-Hexanone	U		3.2	29	µg/Kg-dry	1.124	9/18/2010 14:11
4-Methyl-2-pentanone	U		2.9	29	µg/Kg-dry	1.124	9/18/2010 14:11
Acetone	**130**		**15**	**73**	**µg/Kg-dry**	1.124	9/18/2010 14:11
Benzene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Bromodichloromethane	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Bromoform	U		2.3	29	µg/Kg-dry	1.124	9/18/2010 14:11
Bromomethane	U		2.9	29	µg/Kg-dry	1.124	9/18/2010 14:11
Carbon disulfide	**17**	J	**2.9**	**29**	**µg/Kg-dry**	1.124	9/18/2010 14:11
Carbon tetrachloride	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Chlorobenzene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Chloroethane	U		2.9	29	µg/Kg-dry	1.124	9/18/2010 14:11
Chloroform	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Chloromethane	U		2.9	29	µg/Kg-dry	1.124	9/18/2010 14:11
cis-1,2-Dichloroethene	U		1.8	15	µg/Kg-dry	1.124	9/18/2010 14:11
cis-1,3-Dichloropropene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Cyclohexane	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Dibromochloromethane	U		1.8	15	µg/Kg-dry	1.124	9/18/2010 14:11
Dichlorodifluoromethane	U		2.3	15	µg/Kg-dry	1.124	9/18/2010 14:11
Dichloromethane	U		4.1	29	µg/Kg-dry	1.124	9/18/2010 14:11
Ethylbenzene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Isopropylbenzene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
m,p-Xylene	U		2.9	29	µg/Kg-dry	1.124	9/18/2010 14:11
Methyl acetate	U		3.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Methyl tert-butyl ether	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Methylcyclohexane	U		1.8	15	µg/Kg-dry	1.124	9/18/2010 14:11
o-Xylene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Styrene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Tetrachloroethene	U		1.8	15	µg/Kg-dry	1.124	9/18/2010 14:11
Toluene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
trans-1,2-Dichloroethene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
trans-1,3-Dichloropropene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Trichloroethene	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SD-09142010
Collection Date: 9/14/2010 11:10 AM

Work Order: 1009543
Lab ID: 1009543-03
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		1.5	15	µg/Kg-dry	1.124	9/18/2010 14:11
Vinyl chloride	U		2.9	5.9	µg/Kg-dry	1.124	9/18/2010 14:11
Xylenes, Total	U		2.9	44	µg/Kg-dry	1.124	9/18/2010 14:11
Surr: 1,2-Dichloroethane-d4	*109*			*70-128*	*%REC*	1.124	9/18/2010 14:11
Surr: 4-Bromofluorobenzene	*95.1*			*73-126*	*%REC*	1.124	9/18/2010 14:11
Surr: Dibromofluoromethane	*110*			*71-128*	*%REC*	1.124	9/18/2010 14:11
Surr: Toluene-d8	*105*			*73-127*	*%REC*	1.124	9/18/2010 14:11
MISCELLANEOUS ANALYSIS		Method: **NA**					Analyst: **HN**
Miscellaneous Analysis	**See Attached**		**0**		**-dry**	1	9/17/2010
MOISTURE		Method: **E160.3**					Analyst: **JLC**
Percent Moisture	**61.6**		**0.010**	**0.0100**	**wt%**	1	9/17/2010 12:00
AMMONIA AS N		Method: **SM4500 NH3-B-F**			Prep: M4500-NH3 BE / 9/17/10		Analyst: **IAB**
Nitrogen, Ammonia (as N)	**488**		**4.6**	**23.7**	**mg/Kg-dry**	1	9/17/2010 15:00
TOTAL ORGANIC CARBON		Method: **WALKLEY-BLACK**					Analyst: **JLC**
Total Organic Carbon	**0.959**		**0.020**	**0.0200**	**wt%**	1	9/20/2010 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWA-09142010
Collection Date: 9/14/2010 10:10 AM

Work Order: 1009543
Lab ID: 1009543-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			Method: **SW8015M**		Prep: SW3510C / 9/18/10		Analyst: **RPM**
TPH (Oil Range)	U		0.020	0.10	mg/L	1	9/18/2010 12:34
TPH (Diesel Range)	U		0.020	0.050	mg/L	1	9/18/2010 12:34
Surr: 2-Fluorobiphenyl	*77.6*			*70-130*	*%REC*	1	9/18/2010 12:34
GASOLINE RANGE ORGANICS			Method: **SW8015**				Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.0500	mg/L	1	9/18/2010 10:29
Surr: 4-Bromofluorobenzene	*104*			*70-130*	*%REC*	1	9/18/2010 10:29
MERCURY			Method: **SW7470**		Prep: SW7470 / 9/17/10		Analyst: **ALR**
Mercury	U		0.000042	0.000200	mg/L	1	9/18/2010 17:02
METALS			Method: **SW6020**		Prep: SW3010A / 9/17/10		Analyst: **ALR**
Aluminum	U		0.074	0.200	mg/L	20	9/18/2010 16:40
Antimony	U		0.010	0.100	mg/L	20	9/18/2010 16:40
Arsenic	U		0.018	0.100	mg/L	20	9/18/2010 16:40
Barium	**0.0359**	J	**0.014**	**0.100**	**mg/L**	20	9/18/2010 16:40
Beryllium	U		0.0060	0.0400	mg/L	20	9/18/2010 16:40
Cadmium	U		0.012	0.0400	mg/L	20	9/18/2010 16:40
Calcium	**311**		**1.0**	**10.0**	**mg/L**	20	9/18/2010 16:40
Chromium	U		0.012	0.100	mg/L	20	9/18/2010 16:40
Cobalt	U		0.010	0.100	mg/L	20	9/18/2010 16:40
Copper	U		0.010	0.100	mg/L	20	9/18/2010 16:40
Iron	U		0.72	4.00	mg/L	20	9/18/2010 16:40
Lead	**0.00812**	J	**0.0080**	**0.100**	**mg/L**	20	9/18/2010 16:40
Magnesium	**859**		**3.9**	**20.0**	**mg/L**	100	9/18/2010 15:41
Manganese	U		0.016	0.100	mg/L	20	9/18/2010 16:40
Nickel	**0.0143**	J	**0.0070**	**0.0250**	**mg/L**	5	9/18/2010 17:55
Potassium	**274**		**2.0**	**4.00**	**mg/L**	20	9/18/2010 16:40
Selenium	U		0.050	0.100	mg/L	20	9/18/2010 16:40
Silver	U		0.014	0.100	mg/L	20	9/18/2010 16:40
Sodium	**7,220**		**10**	**20.0**	**mg/L**	100	9/18/2010 15:41
Thallium	U		0.016	0.0400	mg/L	20	9/18/2010 16:40
Vanadium	U		0.014	0.100	mg/L	20	9/18/2010 16:40
Zinc	U		0.050	0.100	mg/L	20	9/18/2010 16:40
PARENT/ALKYL PAH			Method: **SW8270SIM**		Prep: SW3520A / 9/17/10		Analyst: **HV**
1-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
2-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
2-Methylnaphthalene-d10	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Acenaphthene	U		0.050	0.10	ug/L	1	9/18/2010 06:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWA-09142010
Collection Date: 9/14/2010 10:10 AM

Work Order: 1009543
Lab ID: 1009543-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Anthracene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Benz(a)anthracene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Benzo(a)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Benzo(b)fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Benzo(e)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Benzo(g,h,i)perylene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Benzo(k)fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C1-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C1-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C1-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C1-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C2-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C2-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C2-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C2-naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C2-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C3-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C3-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C3-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C3-naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C3-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C4-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C4-Naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
C4-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Chrysene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Dibenz(a,h)anthracene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Fluorene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Indeno(1,2,3-cd)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Naphthalene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Perylene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Phenanthrene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Pyrene	U		0.050	0.10	ug/L	1	9/18/2010 06:12
Surr: Acenaphthylene-d8	*69.6*			*41-107*	*%REC*	1	9/18/2010 06:12
Surr: Anthracene-d10	*69.8*			*44-110*	*%REC*	1	9/18/2010 06:12
Surr: Benzo(a)pyrene-d12	*71.6*			*32-121*	*%REC*	1	9/18/2010 06:12
Surr: Pyrene-d10	*71.5*			*52-119*	*%REC*	1	9/18/2010 06:12
LOW-LEVEL SEMIVOLATILES			Method: **SW8270**		Prep: SW3510 / 9/18/10		Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWA-09142010
Collection Date: 9/14/2010 10:10 AM

Work Order: 1009543
Lab ID: 1009543-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		0.10	0.20	µg/L	1	9/18/2010 18:14
2,4,5-Trichlorophenol	U		0.090	0.20	µg/L	1	9/18/2010 18:14
2,4,6-Trichlorophenol	U		0.070	0.20	µg/L	1	9/18/2010 18:14
2,4-Dichlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 18:14
2,4-Dimethylphenol	U		0.080	0.20	µg/L	1	9/18/2010 18:14
2,4-Dinitrophenol	U		0.080	1.0	µg/L	1	9/18/2010 18:14
2,4-Dinitrotoluene	U		0.090	0.20	µg/L	1	9/18/2010 18:14
2,6-Dinitrotoluene	U		0.070	0.20	µg/L	1	9/18/2010 18:14
2-Chloronaphthalene	U		0.10	0.20	µg/L	1	9/18/2010 18:14
2-Chlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 18:14
2-Methylnaphthalene	U		0.070	0.20	µg/L	1	9/18/2010 18:14
2-Methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 18:14
2-Nitroaniline	U		0.10	0.20	µg/L	1	9/18/2010 18:14
2-Nitrophenol	U		0.070	0.20	µg/L	1	9/18/2010 18:14
3&4-Methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 18:14
3,3'-Dichlorobenzidine	U		0.070	0.20	µg/L	1	9/18/2010 18:14
3-Nitroaniline	U		0.080	0.20	µg/L	1	9/18/2010 18:14
4,6-Dinitro-2-methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 18:14
4-Bromophenyl phenyl ether	U		0.090	0.20	µg/L	1	9/18/2010 18:14
4-Chloro-3-methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 18:14
4-Chloroaniline	U		0.070	0.20	µg/L	1	9/18/2010 18:14
4-Chlorophenyl phenyl ether	U		0.080	0.20	µg/L	1	9/18/2010 18:14
4-Nitroaniline	U		0.070	0.20	µg/L	1	9/18/2010 18:14
4-Nitrophenol	U		0.070	1.0	µg/L	1	9/18/2010 18:14
Acenaphthene	U		0.090	0.20	µg/L	1	9/18/2010 18:14
Acenaphthylene	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Acetophenone	U		0.10	0.20	µg/L	1	9/18/2010 18:14
Anthracene	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Atrazine	U		0.080	0.20	µg/L	1	9/18/2010 18:14
Benz(a)anthracene	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Benzaldehyde	U		0.12	0.20	µg/L	1	9/18/2010 18:14
Benzo(a)pyrene	U		0.080	0.20	µg/L	1	9/18/2010 18:14
Benzo(b)fluoranthene	U		0.090	0.20	µg/L	1	9/18/2010 18:14
Benzo(g,h,i)perylene	U		0.090	0.20	µg/L	1	9/18/2010 18:14
Benzo(k)fluoranthene	U		0.10	0.20	µg/L	1	9/18/2010 18:14
Bis(2-chloroethoxy)methane	U		0.090	0.20	µg/L	1	9/18/2010 18:14
Bis(2-chloroethyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Bis(2-chloroisopropyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Bis(2-ethylhexyl)phthalate	**0.38**		**0.20**	**0.20**	**µg/L**	1	9/18/2010 18:14
Butyl benzyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 18:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWA-09142010
Collection Date: 9/14/2010 10:10 AM

Work Order: 1009543
Lab ID: 1009543-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		0.080	0.20	µg/L	1	9/18/2010 18:14
Carbazole	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Chrysene	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Di-n-butyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Di-n-octyl phthalate	U		0.11	0.20	µg/L	1	9/18/2010 18:14
Dibenz(a,h)anthracene	U		0.080	0.20	µg/L	1	9/18/2010 18:14
Dibenzofuran	U		0.080	0.20	µg/L	1	9/18/2010 18:14
Diethyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Dimethyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 18:14
Fluoranthene	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Fluorene	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Hexachlorobenzene	U		0.10	0.20	µg/L	1	9/18/2010 18:14
Hexachlorobutadiene	U		0.15	0.20	µg/L	1	9/18/2010 18:14
Hexachlorocyclopentadiene	U		0.080	0.20	µg/L	1	9/18/2010 18:14
Hexachloroethane	U		0.17	0.20	µg/L	1	9/18/2010 18:14
Indeno(1,2,3-cd)pyrene	U		0.10	0.20	µg/L	1	9/18/2010 18:14
Isophorone	U		0.070	0.20	µg/L	1	9/18/2010 18:14
N-Nitrosodi-n-propylamine	U		0.10	0.20	µg/L	1	9/18/2010 18:14
N-Nitrosodiphenylamine	U		0.090	0.20	µg/L	1	9/18/2010 18:14
Naphthalene	U		0.10	0.20	µg/L	1	9/18/2010 18:14
Nitrobenzene	U		0.090	0.20	µg/L	1	9/18/2010 18:14
Pentachlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 18:14
Phenanthrene	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Phenol	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Pyrene	U		0.070	0.20	µg/L	1	9/18/2010 18:14
Surr: 2,4,6-Tribromophenol	*51.3*			*34-129*	*%REC*	1	9/18/2010 18:14
Surr: 2-Fluorobiphenyl	*52.9*			*40-125*	*%REC*	1	9/18/2010 18:14
Surr: 2-Fluorophenol	*49.5*			*20-120*	*%REC*	1	9/18/2010 18:14
Surr: 4-Terphenyl-d14	*67.7*			*40-135*	*%REC*	1	9/18/2010 18:14
Surr: Nitrobenzene-d5	*51.8*			*41-120*	*%REC*	1	9/18/2010 18:14
Surr: Phenol-d6	*49.5*			*20-120*	*%REC*	1	9/18/2010 18:14
TCL VOLATILES		Method: **SW8260**					Analyst: **PC**
1,1,1-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/L	1	9/18/2010 00:35
1,1,2-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
1,1-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
1,1-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
1,2,4-Trichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 00:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWA-09142010
Collection Date: 9/14/2010 10:10 AM

Work Order: 1009543
Lab ID: 1009543-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.0	5.0	µg/L	1	9/18/2010 00:35
1,2-Dibromoethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
1,2-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
1,2-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
1,2-Dichloropropane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
1,3-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
1,4-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
2-Butanone	U		0.80	10	µg/L	1	9/18/2010 00:35
2-Hexanone	U		1.0	10	µg/L	1	9/18/2010 00:35
4-Methyl-2-pentanone	U		1.0	10	µg/L	1	9/18/2010 00:35
Acetone	U		1.0	10	µg/L	1	9/18/2010 00:35
Benzene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Bromodichloromethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Bromoform	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Bromomethane	U		0.90	5.0	µg/L	1	9/18/2010 00:35
Carbon disulfide	U		1.0	10	µg/L	1	9/18/2010 00:35
Carbon tetrachloride	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Chlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Chloroethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Chloroform	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Chloromethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
cis-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
cis-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Cyclohexane	U		0.60	5.0	µg/L	1	9/18/2010 00:35
Dibromochloromethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Dichlorodifluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Dichloromethane	U		0.50	10	µg/L	1	9/18/2010 00:35
Ethylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Isopropylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
m,p-Xylene	U		1.0	10	µg/L	1	9/18/2010 00:35
Methyl acetate	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Methyl tert-butyl ether	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Methylcyclohexane	U		0.80	5.0	µg/L	1	9/18/2010 00:35
o-Xylene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Styrene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Tetrachloroethene	U		0.60	5.0	µg/L	1	9/18/2010 00:35
Toluene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
trans-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
trans-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Trichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 00:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWA-09142010
Collection Date: 9/14/2010 10:10 AM

Work Order: 1009543
Lab ID: 1009543-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 00:35
Vinyl chloride	U		0.50	2.0	µg/L	1	9/18/2010 00:35
Xylenes, Total	U		1.0	15	µg/L	1	9/18/2010 00:35
Surr: 1,2-Dichloroethane-d4	*123*			*70-125*	*%REC*	1	9/18/2010 00:35
Surr: 4-Bromofluorobenzene	*96.6*			*72-125*	*%REC*	1	9/18/2010 00:35
Surr: Dibromofluoromethane	*112*			*71-125*	*%REC*	1	9/18/2010 00:35
Surr: Toluene-d8	*103*			*75-125*	*%REC*	1	9/18/2010 00:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWB-09142010
Collection Date: 9/14/2010 10:45 AM

Work Order: 1009543
Lab ID: 1009543-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO		Method: **SW8015M**			Prep: SW3510C / 9/18/10		Analyst: **RPM**
TPH (Oil Range)	U		0.020	0.10	mg/L	1	9/18/2010 12:54
TPH (Diesel Range)	U		0.020	0.050	mg/L	1	9/18/2010 12:54
Surr: 2-Fluorobiphenyl	*70.3*			*70-130*	*%REC*	1	9/18/2010 12:54
GASOLINE RANGE ORGANICS		Method: **SW8015**					Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.0500	mg/L	1	9/18/2010 10:47
Surr: 4-Bromofluorobenzene	*96.5*			*70-130*	*%REC*	1	9/18/2010 10:47
MERCURY		Method: **SW7470**			Prep: SW7470 / 9/17/10		Analyst: **ALR**
Mercury	U		0.000042	0.000200	mg/L	1	9/18/2010 17:04
METALS		Method: **SW6020**			Prep: SW3010A / 9/17/10		Analyst: **ALR**
Aluminum	**0.0856**	J	**0.074**	**0.200**	**mg/L**	20	9/18/2010 16:45
Antimony	U		0.010	0.100	mg/L	20	9/18/2010 16:45
Arsenic	U		0.018	0.100	mg/L	20	9/18/2010 16:45
Barium	**0.0348**	J	**0.014**	**0.100**	**mg/L**	20	9/18/2010 16:45
Beryllium	U		0.0060	0.0400	mg/L	20	9/18/2010 16:45
Cadmium	U		0.012	0.0400	mg/L	20	9/18/2010 16:45
Calcium	**344**		**1.0**	**10.0**	**mg/L**	20	9/18/2010 16:45
Chromium	U		0.012	0.100	mg/L	20	9/18/2010 16:45
Cobalt	U		0.010	0.100	mg/L	20	9/18/2010 16:45
Copper	U		0.010	0.100	mg/L	20	9/18/2010 16:45
Iron	U		0.72	4.00	mg/L	20	9/18/2010 16:45
Lead	U		0.0080	0.100	mg/L	20	9/18/2010 16:45
Magnesium	**883**		**3.9**	**20.0**	**mg/L**	100	9/18/2010 15:46
Manganese	U		0.016	0.100	mg/L	20	9/18/2010 16:45
Nickel	**0.0152**	J	**0.0070**	**0.0250**	**mg/L**	5	9/18/2010 18:06
Potassium	**306**		**2.0**	**4.00**	**mg/L**	20	9/18/2010 16:45
Selenium	U		0.050	0.100	mg/L	20	9/18/2010 16:45
Silver	U		0.014	0.100	mg/L	20	9/18/2010 16:45
Sodium	**7,540**		**10**	**20.0**	**mg/L**	100	9/18/2010 15:46
Thallium	U		0.016	0.0400	mg/L	20	9/18/2010 16:45
Vanadium	U		0.014	0.100	mg/L	20	9/18/2010 16:45
Zinc	U		0.050	0.100	mg/L	20	9/18/2010 16:45
PARENT/ALKYL PAH		Method: **SW8270SIM**			Prep: SW3520A / 9/17/10		Analyst: **HV**
1-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
2-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
2-Methylnaphthalene-d10	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Acenaphthene	U		0.050	0.10	ug/L	1	9/18/2010 06:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWB-09142010
Collection Date: 9/14/2010 10:45 AM

Work Order: 1009543
Lab ID: 1009543-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Anthracene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Benz(a)anthracene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Benzo(a)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Benzo(b)fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Benzo(e)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Benzo(g,h,i)perylene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Benzo(k)fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C1-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C1-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C1-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C1-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C2-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C2-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C2-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C2-naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C2-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C3-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C3-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C3-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C3-naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C3-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C4-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C4-Naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
C4-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Chrysene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Dibenz(a,h)anthracene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Fluorene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Indeno(1,2,3-cd)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Naphthalene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Perylene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Phenanthrene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Pyrene	U		0.050	0.10	ug/L	1	9/18/2010 06:36
Surr: Acenaphthylene-d8	*74.0*			*41-107*	*%REC*	1	9/18/2010 06:36
Surr: Anthracene-d10	*69.1*			*44-110*	*%REC*	1	9/18/2010 06:36
Surr: Benzo(a)pyrene-d12	*75.4*			*32-121*	*%REC*	1	9/18/2010 06:36
Surr: Pyrene-d10	*79.0*			*52-119*	*%REC*	1	9/18/2010 06:36
LOW-LEVEL SEMIVOLATILES			Method: **SW8270**		Prep: SW3510 / 9/18/10		Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWB-09142010
Collection Date: 9/14/2010 10:45 AM

Work Order: 1009543
Lab ID: 1009543-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		0.10	0.20	µg/L	1	9/18/2010 18:33
2,4,5-Trichlorophenol	U		0.090	0.20	µg/L	1	9/18/2010 18:33
2,4,6-Trichlorophenol	U		0.070	0.20	µg/L	1	9/18/2010 18:33
2,4-Dichlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 18:33
2,4-Dimethylphenol	U		0.080	0.20	µg/L	1	9/18/2010 18:33
2,4-Dinitrophenol	U		0.080	1.0	µg/L	1	9/18/2010 18:33
2,4-Dinitrotoluene	U		0.090	0.20	µg/L	1	9/18/2010 18:33
2,6-Dinitrotoluene	U		0.070	0.20	µg/L	1	9/18/2010 18:33
2-Chloronaphthalene	U		0.10	0.20	µg/L	1	9/18/2010 18:33
2-Chlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 18:33
2-Methylnaphthalene	U		0.070	0.20	µg/L	1	9/18/2010 18:33
2-Methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 18:33
2-Nitroaniline	U		0.10	0.20	µg/L	1	9/18/2010 18:33
2-Nitrophenol	U		0.070	0.20	µg/L	1	9/18/2010 18:33
3&4-Methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 18:33
3,3'-Dichlorobenzidine	U		0.070	0.20	µg/L	1	9/18/2010 18:33
3-Nitroaniline	U		0.080	0.20	µg/L	1	9/18/2010 18:33
4,6-Dinitro-2-methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 18:33
4-Bromophenyl phenyl ether	U		0.090	0.20	µg/L	1	9/18/2010 18:33
4-Chloro-3-methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 18:33
4-Chloroaniline	U		0.070	0.20	µg/L	1	9/18/2010 18:33
4-Chlorophenyl phenyl ether	U		0.080	0.20	µg/L	1	9/18/2010 18:33
4-Nitroaniline	U		0.070	0.20	µg/L	1	9/18/2010 18:33
4-Nitrophenol	U		0.070	1.0	µg/L	1	9/18/2010 18:33
Acenaphthene	U		0.090	0.20	µg/L	1	9/18/2010 18:33
Acenaphthylene	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Acetophenone	U		0.10	0.20	µg/L	1	9/18/2010 18:33
Anthracene	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Atrazine	U		0.080	0.20	µg/L	1	9/18/2010 18:33
Benz(a)anthracene	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Benzaldehyde	U		0.12	0.20	µg/L	1	9/18/2010 18:33
Benzo(a)pyrene	U		0.080	0.20	µg/L	1	9/18/2010 18:33
Benzo(b)fluoranthene	U		0.090	0.20	µg/L	1	9/18/2010 18:33
Benzo(g,h,i)perylene	U		0.090	0.20	µg/L	1	9/18/2010 18:33
Benzo(k)fluoranthene	U		0.10	0.20	µg/L	1	9/18/2010 18:33
Bis(2-chloroethoxy)methane	U		0.090	0.20	µg/L	1	9/18/2010 18:33
Bis(2-chloroethyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Bis(2-chloroisopropyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Bis(2-ethylhexyl)phthalate	**0.32**		**0.20**	**0.20**	**µg/L**	**1**	9/18/2010 18:33
Butyl benzyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 18:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWB-09142010
Collection Date: 9/14/2010 10:45 AM

Work Order: 1009543
Lab ID: 1009543-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		0.080	0.20	µg/L	1	9/18/2010 18:33
Carbazole	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Chrysene	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Di-n-butyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Di-n-octyl phthalate	U		0.11	0.20	µg/L	1	9/18/2010 18:33
Dibenz(a,h)anthracene	U		0.080	0.20	µg/L	1	9/18/2010 18:33
Dibenzofuran	U		0.080	0.20	µg/L	1	9/18/2010 18:33
Diethyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Dimethyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 18:33
Fluoranthene	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Fluorene	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Hexachlorobenzene	U		0.10	0.20	µg/L	1	9/18/2010 18:33
Hexachlorobutadiene	U		0.15	0.20	µg/L	1	9/18/2010 18:33
Hexachlorocyclopentadiene	U		0.080	0.20	µg/L	1	9/18/2010 18:33
Hexachloroethane	U		0.17	0.20	µg/L	1	9/18/2010 18:33
Indeno(1,2,3-cd)pyrene	U		0.10	0.20	µg/L	1	9/18/2010 18:33
Isophorone	U		0.070	0.20	µg/L	1	9/18/2010 18:33
N-Nitrosodi-n-propylamine	U		0.10	0.20	µg/L	1	9/18/2010 18:33
N-Nitrosodiphenylamine	U		0.090	0.20	µg/L	1	9/18/2010 18:33
Naphthalene	U		0.10	0.20	µg/L	1	9/18/2010 18:33
Nitrobenzene	U		0.090	0.20	µg/L	1	9/18/2010 18:33
Pentachlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 18:33
Phenanthrene	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Phenol	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Pyrene	U		0.070	0.20	µg/L	1	9/18/2010 18:33
Surr: 2,4,6-Tribromophenol	*43.8*			*34-129*	*%REC*	1	9/18/2010 18:33
Surr: 2-Fluorobiphenyl	*49.0*			*40-125*	*%REC*	1	9/18/2010 18:33
Surr: 2-Fluorophenol	*47.2*			*20-120*	*%REC*	1	9/18/2010 18:33
Surr: 4-Terphenyl-d14	*43.4*			*40-135*	*%REC*	1	9/18/2010 18:33
Surr: Nitrobenzene-d5	*49.7*			*41-120*	*%REC*	1	9/18/2010 18:33
Surr: Phenol-d6	*47.8*			*20-120*	*%REC*	1	9/18/2010 18:33
TCL VOLATILES		Method: **SW8260**					Analyst: **PC**
1,1,1-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/L	1	9/18/2010 17:08
1,1,2-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
1,1-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
1,1-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
1,2,4-Trichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWB-09142010
Collection Date: 9/14/2010 10:45 AM

Work Order: 1009543
Lab ID: 1009543-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.0	5.0	µg/L	1	9/18/2010 17:08
1,2-Dibromoethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
1,2-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
1,2-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
1,2-Dichloropropane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
1,3-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
1,4-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
2-Butanone	U		0.80	10	µg/L	1	9/18/2010 17:08
2-Hexanone	U		1.0	10	µg/L	1	9/18/2010 17:08
4-Methyl-2-pentanone	U		1.0	10	µg/L	1	9/18/2010 17:08
Acetone	U		1.0	10	µg/L	1	9/18/2010 17:08
Benzene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Bromodichloromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Bromoform	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Bromomethane	U		0.90	5.0	µg/L	1	9/18/2010 17:08
Carbon disulfide	U		1.0	10	µg/L	1	9/18/2010 17:08
Carbon tetrachloride	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Chlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Chloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Chloroform	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Chloromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
cis-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
cis-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Cyclohexane	U		0.60	5.0	µg/L	1	9/18/2010 17:08
Dibromochloromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Dichlorodifluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Dichloromethane	U		0.50	10	µg/L	1	9/18/2010 17:08
Ethylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Isopropylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
m,p-Xylene	U		1.0	10	µg/L	1	9/18/2010 17:08
Methyl acetate	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Methyl tert-butyl ether	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Methylcyclohexane	U		0.80	5.0	µg/L	1	9/18/2010 17:08
o-Xylene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Styrene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Tetrachloroethene	U		0.60	5.0	µg/L	1	9/18/2010 17:08
Toluene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
trans-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
trans-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Trichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-6-B-SWB-09142010
Collection Date: 9/14/2010 10:45 AM

Work Order: 1009543
Lab ID: 1009543-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:08
Vinyl chloride	U		0.50	2.0	µg/L	1	9/18/2010 17:08
Xylenes, Total	U		1.0	15	µg/L	1	9/18/2010 17:08
Surr: 1,2-Dichloroethane-d4	*110*			*70-125*	*%REC*	1	9/18/2010 17:08
Surr: 4-Bromofluorobenzene	*93.3*			*72-125*	*%REC*	1	9/18/2010 17:08
Surr: Dibromofluoromethane	*106*			*71-125*	*%REC*	1	9/18/2010 17:08
Surr: Toluene-d8	*97.4*			*75-125*	*%REC*	1	9/18/2010 17:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SD-09142010
Collection Date: 9/14/2010 02:00 PM

Work Order: 1009543
Lab ID: 1009543-06
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO		Method: **SW8015M**			Prep: SW3541 / 9/17/10		Analyst: **RPM**
TPH (Oil Range)	**1.4**	J	**0.58**	**4.0**	**mg/Kg-dry**	1	9/19/2010 22:53
TPH (Diesel Range)	U		0.58	2.0	mg/Kg-dry	1	9/19/2010 22:53
Surr: 2-Fluorobiphenyl	*70.4*			*70-130*	*%REC*	1	9/19/2010 22:53
GASOLINE RANGE ORGANICS		Method: **SW8015**					Analyst: **KKP**
Gasoline Range Organics	**0.031**		**0.0096**	**0.024**	**mg/Kg-dry**	0.411	9/17/2010 17:53
Surr: 4-Bromofluorobenzene	*99.2*			*70-130*	*%REC*	0.411	9/17/2010 17:53
MERCURY		Method: **SW7471A**			Prep: SW7471A / 9/18/10		Analyst: **ALR**
Mercury	**0.248**	J	**0.25**	**4.13**	**µg/Kg-dry**	1	9/18/2010 17:57
METALS		Method: **SW6020**			Prep: SW3050A / 9/17/10		Analyst: **ALR**
Aluminum	**410**		**21**	**105**	**mg/Kg-dry**	100	9/18/2010 20:51
Antimony	U		0.26	0.524	mg/Kg-dry	1	9/19/2010 01:00
Arsenic	**0.608**		**0.063**	**0.524**	**mg/Kg-dry**	1	9/19/2010 01:00
Barium	**1.38**		**0.084**	**0.524**	**mg/Kg-dry**	1	9/19/2010 01:00
Beryllium	**0.0541**	J	**0.052**	**0.524**	**mg/Kg-dry**	1	9/20/2010 15:37
Cadmium	U		0.042	0.524	mg/Kg-dry	1	9/19/2010 01:00
Calcium	**1,250**		**10**	**52.4**	**mg/Kg-dry**	1	9/19/2010 01:00
Chromium	**1.12**		**0.052**	**0.524**	**mg/Kg-dry**	1	9/19/2010 01:00
Cobalt	**0.364**	J	**0.031**	**0.524**	**mg/Kg-dry**	1	9/19/2010 01:00
Copper	**0.281**	J	**0.15**	**0.524**	**mg/Kg-dry**	1	9/19/2010 01:00
Iron	**1,100**		**4.2**	**52.4**	**mg/Kg-dry**	1	9/19/2010 01:00
Lead	**0.522**	J	**0.052**	**0.524**	**mg/Kg-dry**	1	9/19/2010 01:00
Magnesium	**600**		**3.5**	**52.4**	**mg/Kg-dry**	1	9/19/2010 01:00
Manganese	**24.9**		**0.073**	**0.524**	**mg/Kg-dry**	1	9/19/2010 01:00
Nickel	**0.388**	J	**0.063**	**0.524**	**mg/Kg-dry**	1	9/19/2010 01:00
Potassium	**152**		**3.8**	**52.4**	**mg/Kg-dry**	1	9/19/2010 01:00
Selenium	U		0.26	0.524	mg/Kg-dry	1	9/19/2010 01:00
Silver	U		0.042	0.524	mg/Kg-dry	1	9/19/2010 01:00
Sodium	**1,940**		**4.2**	**52.4**	**mg/Kg-dry**	1	9/19/2010 01:00
Thallium	U		0.073	0.524	mg/Kg-dry	1	9/19/2010 01:00
Vanadium	**1.19**		**0.073**	**0.524**	**mg/Kg-dry**	1	9/19/2010 01:00
Zinc	**3.04**		**0.26**	**0.524**	**mg/Kg-dry**	1	9/19/2010 01:00
PARENT/ALKYL PAHS		Method: **SW8270SIM**			Prep: SW3541 / 9/17/10		Analyst: **HV**
1-Methylnaphthalene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
2-Methylnaphthalene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
2-Methylnaphthalene-d10	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Acenaphthene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SD-09142010
Collection Date: 9/14/2010 02:00 PM

Work Order: 1009543
Lab ID: 1009543-06
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Anthracene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Benz(a)anthracene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Benzo(a)pyrene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Benzo(b)fluoranthene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Benzo(e)pyrene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Benzo(g,h,i)perylene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Benzo(k)fluoranthene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C1-Chrysenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C1-Fluoranthenes/Pyrenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C1-Fluorenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C1-Phenanthrenes/anthracenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C2-Chrysenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C2-Fluoranthenes/Pyrenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C2-Fluorenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C2-naphthalenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C2-Phenanthrenes/anthracenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C3-Chrysenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C3-Fluoranthenes/Pyrenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C3-Fluorenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C3-naphthalenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C3-Phenanthrenes/anthracenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C4-Chrysenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C4-Naphthalenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
C4-Phenanthrenes/anthracenes	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Chrysene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Dibenz(a,h)anthracene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Fluoranthene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Fluorene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Indeno(1,2,3-cd)pyrene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Naphthalene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Perylene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Phenanthrene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Pyrene	U		2.3	3.8	ug/Kg-dry	1	9/18/2010 00:28
Surr: Acenaphthylene-d8	*63.7*			*20-97*	*%REC*	1	9/18/2010 00:28
Surr: Anthracene-d10	*64.0*			*22-98*	*%REC*	1	9/18/2010 00:28
Surr: Benzo(a)pyrene-d12	*80.8*			*43-111*	*%REC*	1	9/18/2010 00:28
Surr: Pyrene-d10	*75.5*			*51-120*	*%REC*	1	9/18/2010 00:28
LOW-LEVEL SEMIVOLATILES		Method: **SW8270**			Prep: SW3541 / 9/17/10		Analyst: **KMB**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SD-09142010
Collection Date: 9/14/2010 02:00 PM

Work Order: 1009543
Lab ID: 1009543-06
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		3.4	7.7	µg/Kg-dry	1	9/18/2010 01:32
2,4,5-Trichlorophenol	U		3.3	7.7	µg/Kg-dry	1	9/18/2010 01:32
2,4,6-Trichlorophenol	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
2,4-Dichlorophenol	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
2,4-Dimethylphenol	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
2,4-Dinitrophenol	U		3.8	38	µg/Kg-dry	1	9/18/2010 01:32
2,4-Dinitrotoluene	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
2,6-Dinitrotoluene	U		3.7	7.7	µg/Kg-dry	1	9/18/2010 01:32
2-Chloronaphthalene	U		4.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
2-Chlorophenol	U		3.7	7.7	µg/Kg-dry	1	9/18/2010 01:32
2-Methylnaphthalene	U		3.1	7.7	µg/Kg-dry	1	9/18/2010 01:32
2-Methylphenol	U		3.4	7.7	µg/Kg-dry	1	9/18/2010 01:32
2-Nitroaniline	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
2-Nitrophenol	U		5.3	7.7	µg/Kg-dry	1	9/18/2010 01:32
3&4-Methylphenol	U		3.3	7.7	µg/Kg-dry	1	9/18/2010 01:32
3,3'-Dichlorobenzidine	U		3.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
3-Nitroaniline	U		3.0	7.7	µg/Kg-dry	1	9/18/2010 01:32
4,6-Dinitro-2-methylphenol	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
4-Bromophenyl phenyl ether	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
4-Chloro-3-methylphenol	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
4-Chloroaniline	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
4-Chlorophenyl phenyl ether	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
4-Nitroaniline	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
4-Nitrophenol	U		4.4	38	µg/Kg-dry	1	9/18/2010 01:32
Acenaphthene	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
Acenaphthylene	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
Acetophenone	U		2.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Anthracene	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
Atrazine	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Benz(a)anthracene	U		3.3	7.7	µg/Kg-dry	1	9/18/2010 01:32
Benzaldehyde	U		5.3	7.7	µg/Kg-dry	1	9/18/2010 01:32
Benzo(a)pyrene	U		2.7	7.7	µg/Kg-dry	1	9/18/2010 01:32
Benzo(b)fluoranthene	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Benzo(g,h,i)perylene	U		3.4	7.7	µg/Kg-dry	1	9/18/2010 01:32
Benzo(k)fluoranthene	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Bis(2-chloroethoxy)methane	U		2.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Bis(2-chloroethyl)ether	U		3.3	7.7	µg/Kg-dry	1	9/18/2010 01:32
Bis(2-chloroisopropyl)ether	U		3.1	7.7	µg/Kg-dry	1	9/18/2010 01:32
Bis(2-ethylhexyl)phthalate	**8.4**		**7.7**	**7.7**	**µg/Kg-dry**	1	9/18/2010 01:32
Butyl benzyl phthalate	U		2.9	7.7	µg/Kg-dry	1	9/18/2010 01:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SD-09142010
Collection Date: 9/14/2010 02:00 PM

Work Order: 1009543
Lab ID: 1009543-06
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		2.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Carbazole	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
Chrysene	U		3.4	7.7	µg/Kg-dry	1	9/18/2010 01:32
Di-n-butyl phthalate	U		2.9	7.7	µg/Kg-dry	1	9/18/2010 01:32
Di-n-octyl phthalate	U		3.4	7.7	µg/Kg-dry	1	9/18/2010 01:32
Dibenz(a,h)anthracene	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
Dibenzofuran	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
Diethyl phthalate	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Dimethyl phthalate	U		2.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Fluoranthene	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
Fluorene	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
Hexachlorobenzene	U		3.0	7.7	µg/Kg-dry	1	9/18/2010 01:32
Hexachlorobutadiene	U		5.1	7.7	µg/Kg-dry	1	9/18/2010 01:32
Hexachlorocyclopentadiene	U		4.2	7.7	µg/Kg-dry	1	9/18/2010 01:32
Hexachloroethane	U		4.5	7.7	µg/Kg-dry	1	9/18/2010 01:32
Indeno(1,2,3-cd)pyrene	U		4.1	7.7	µg/Kg-dry	1	9/18/2010 01:32
Isophorone	U		3.5	7.7	µg/Kg-dry	1	9/18/2010 01:32
N-Nitrosodi-n-propylamine	U		4.7	7.7	µg/Kg-dry	1	9/18/2010 01:32
N-Nitrosodiphenylamine	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
Naphthalene	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Nitrobenzene	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Pentachlorophenol	U		3.3	7.7	µg/Kg-dry	1	9/18/2010 01:32
Phenanthrene	U		3.5	7.7	µg/Kg-dry	1	9/18/2010 01:32
Phenol	U		3.8	7.7	µg/Kg-dry	1	9/18/2010 01:32
Pyrene	U		2.6	7.7	µg/Kg-dry	1	9/18/2010 01:32
Surr: 2,4,6-Tribromophenol	*61.0*			*36-126*	*%REC*	1	9/18/2010 01:32
Surr: 2-Fluorobiphenyl	*56.9*			*43-125*	*%REC*	1	9/18/2010 01:32
Surr: 2-Fluorophenol	*51.7*			*37-125*	*%REC*	1	9/18/2010 01:32
Surr: 4-Terphenyl-d14	*66.8*			*32-125*	*%REC*	1	9/18/2010 01:32
Surr: Nitrobenzene-d5	*56.7*			*37-125*	*%REC*	1	9/18/2010 01:32
Surr: Phenol-d6	*55.2*			*40-125*	*%REC*	1	9/18/2010 01:32
TCL VOLATILES		Method: **SW8260**					Analyst: **WLR**
1,1,1-Trichloroethane	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,1,2,2-Tetrachloroethane	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.50	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,1,2-Trichloroethane	U		0.66	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,1-Dichloroethane	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,1-Dichloroethene	U		0.66	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,2,4-Trichlorobenzene	U		0.58	4.1	µg/Kg-dry	0.71	9/18/2010 13:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SD-09142010
Collection Date: 9/14/2010 02:00 PM

Work Order: 1009543
Lab ID: 1009543-06
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.6	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,2-Dibromoethane	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,2-Dichlorobenzene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,2-Dichloroethane	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,2-Dichloropropane	U		0.58	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,3-Dichlorobenzene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
1,4-Dichlorobenzene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
2-Butanone	U		1.6	8.3	µg/Kg-dry	0.71	9/18/2010 13:17
2-Hexanone	U		0.91	8.3	µg/Kg-dry	0.71	9/18/2010 13:17
4-Methyl-2-pentanone	U		0.83	8.3	µg/Kg-dry	0.71	9/18/2010 13:17
Acetone	**6.0**	J	**4.1**	**21**	**µg/Kg-dry**	0.71	9/18/2010 13:17
Benzene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Bromodichloromethane	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Bromoform	U		0.66	8.3	µg/Kg-dry	0.71	9/18/2010 13:17
Bromomethane	U		0.83	8.3	µg/Kg-dry	0.71	9/18/2010 13:17
Carbon disulfide	**3.2**	J	**0.83**	**8.3**	**µg/Kg-dry**	0.71	9/18/2010 13:17
Carbon tetrachloride	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Chlorobenzene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Chloroethane	U		0.83	8.3	µg/Kg-dry	0.71	9/18/2010 13:17
Chloroform	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Chloromethane	U		0.83	8.3	µg/Kg-dry	0.71	9/18/2010 13:17
cis-1,2-Dichloroethene	U		0.50	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
cis-1,3-Dichloropropene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Cyclohexane	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Dibromochloromethane	U		0.50	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Dichlorodifluoromethane	U		0.66	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Dichloromethane	U		1.2	8.3	µg/Kg-dry	0.71	9/18/2010 13:17
Ethylbenzene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Isopropylbenzene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
m,p-Xylene	U		0.83	8.3	µg/Kg-dry	0.71	9/18/2010 13:17
Methyl acetate	U		0.99	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Methyl tert-butyl ether	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Methylcyclohexane	U		0.50	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
o-Xylene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Styrene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Tetrachloroethene	U		0.50	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Toluene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
trans-1,2-Dichloroethene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
trans-1,3-Dichloropropene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Trichloroethene	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SD-09142010
Collection Date: 9/14/2010 02:00 PM

Work Order: 1009543
Lab ID: 1009543-06
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.41	4.1	µg/Kg-dry	0.71	9/18/2010 13:17
Vinyl chloride	U		0.83	1.7	µg/Kg-dry	0.71	9/18/2010 13:17
Xylenes, Total	U		0.83	12	µg/Kg-dry	0.71	9/18/2010 13:17
Surr: 1,2-Dichloroethane-d4	*113*			*70-128*	*%REC*	0.71	9/18/2010 13:17
Surr: 4-Bromofluorobenzene	*104*			*73-126*	*%REC*	0.71	9/18/2010 13:17
Surr: Dibromofluoromethane	*111*			*71-128*	*%REC*	0.71	9/18/2010 13:17
Surr: Toluene-d8	*102*			*73-127*	*%REC*	0.71	9/18/2010 13:17
MISCELLANEOUS ANALYSIS		Method: **NA**					Analyst: **HN**
Miscellaneous Analysis	**See Attached**		**0**		**-dry**	1	9/17/2010
MOISTURE		Method: **E160.3**					Analyst: **JLC**
Percent Moisture	**14.1**		**0.010**	**0.0100**	**wt%**	1	9/17/2010 12:00
AMMONIA AS N		Method: **SM4500 NH3-B-F**			Prep: M4500-NH3 BE / 9/17/10		Analyst: **IAB**
Nitrogen, Ammonia (as N)	**101**		**1.1**	**5.52**	**mg/Kg-dry**	1	9/17/2010 15:00
TOTAL ORGANIC CARBON		Method: **WALKLEY-BLACK**					Analyst: **JLC**
Total Organic Carbon	**0.235**		**0.020**	**0.0200**	**wt%**	1	9/20/2010 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWA-09142010
Collection Date: 9/14/2010 12:15 PM

Work Order: 1009543
Lab ID: 1009543-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			Method: **SW8015M**		Prep: SW3510C / 9/18/10		Analyst: **RPM**
TPH (Oil Range)	U		0.020	0.10	mg/L	1	9/18/2010 13:13
TPH (Diesel Range)	U		0.020	0.050	mg/L	1	9/18/2010 13:13
Surr: 2-Fluorobiphenyl	*80.4*			*70-130*	*%REC*	1	9/18/2010 13:13
GASOLINE RANGE ORGANICS			Method: **SW8015**				Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.0500	mg/L	1	9/18/2010 11:05
Surr: 4-Bromofluorobenzene	*97.5*			*70-130*	*%REC*	1	9/18/2010 11:05
MERCURY			Method: **SW7470**		Prep: SW7470 / 9/17/10		Analyst: **ALR**
Mercury	U		0.000042	0.000200	mg/L	1	9/18/2010 17:16
METALS			Method: **SW6020**		Prep: SW3010A / 9/17/10		Analyst: **ALR**
Aluminum	U		0.074	0.200	mg/L	20	9/18/2010 16:50
Antimony	U		0.010	0.100	mg/L	20	9/18/2010 16:50
Arsenic	U		0.018	0.100	mg/L	20	9/18/2010 16:50
Barium	**0.0194**	J	**0.014**	**0.100**	**mg/L**	20	9/18/2010 16:50
Beryllium	U		0.0060	0.0400	mg/L	20	9/18/2010 16:50
Cadmium	U		0.012	0.0400	mg/L	20	9/18/2010 16:50
Calcium	**362**		**1.0**	**10.0**	**mg/L**	20	9/18/2010 16:50
Chromium	U		0.012	0.100	mg/L	20	9/18/2010 16:50
Cobalt	U		0.010	0.100	mg/L	20	9/18/2010 16:50
Copper	U		0.010	0.100	mg/L	20	9/18/2010 16:50
Iron	U		0.72	4.00	mg/L	20	9/18/2010 16:50
Lead	U		0.0080	0.100	mg/L	20	9/18/2010 16:50
Magnesium	**978**		**3.9**	**20.0**	**mg/L**	100	9/18/2010 15:52
Manganese	U		0.016	0.100	mg/L	20	9/18/2010 16:50
Nickel	**0.0150**	J	**0.0070**	**0.0250**	**mg/L**	5	9/18/2010 18:11
Potassium	**328**		**2.0**	**4.00**	**mg/L**	20	9/18/2010 16:50
Selenium	U		0.050	0.100	mg/L	20	9/18/2010 16:50
Silver	U		0.014	0.100	mg/L	20	9/18/2010 16:50
Sodium	**8,300**		**10**	**20.0**	**mg/L**	100	9/18/2010 15:52
Thallium	U		0.016	0.0400	mg/L	20	9/18/2010 16:50
Vanadium	U		0.014	0.100	mg/L	20	9/18/2010 16:50
Zinc	U		0.050	0.100	mg/L	20	9/18/2010 16:50
PARENT/ALKYL PAH			Method: **SW8270SIM**		Prep: SW3520A / 9/17/10		Analyst: **HV**
1-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
2-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
2-Methylnaphthalene-d10	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Acenaphthene	U		0.050	0.10	ug/L	1	9/18/2010 07:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWA-09142010
Collection Date: 9/14/2010 12:15 PM

Work Order: 1009543
Lab ID: 1009543-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Anthracene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Benz(a)anthracene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Benzo(a)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Benzo(b)fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Benzo(e)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Benzo(g,h,i)perylene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Benzo(k)fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C1-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C1-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C1-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C1-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C2-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C2-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C2-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C2-naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C2-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C3-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C3-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C3-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C3-naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C3-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C4-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C4-Naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
C4-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Chrysene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Dibenz(a,h)anthracene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Fluorene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Indeno(1,2,3-cd)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Naphthalene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Perylene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Phenanthrene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Pyrene	U		0.050	0.10	ug/L	1	9/18/2010 07:01
Surr: Acenaphthylene-d8	*79.3*			*41-107*	*%REC*	1	9/18/2010 07:01
Surr: Anthracene-d10	*75.0*			*44-110*	*%REC*	1	9/18/2010 07:01
Surr: Benzo(a)pyrene-d12	*79.0*			*32-121*	*%REC*	1	9/18/2010 07:01
Surr: Pyrene-d10	*80.7*			*52-119*	*%REC*	1	9/18/2010 07:01
LOW-LEVEL SEMIVOLATILES			Method: **SW8270**		Prep: SW3510 / 9/18/10		Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWA-09142010
Collection Date: 9/14/2010 12:15 PM

Work Order: 1009543
Lab ID: 1009543-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		0.10	0.20	µg/L	1	9/18/2010 18:53
2,4,5-Trichlorophenol	U		0.090	0.20	µg/L	1	9/18/2010 18:53
2,4,6-Trichlorophenol	U		0.070	0.20	µg/L	1	9/18/2010 18:53
2,4-Dichlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 18:53
2,4-Dimethylphenol	U		0.080	0.20	µg/L	1	9/18/2010 18:53
2,4-Dinitrophenol	U		0.080	1.0	µg/L	1	9/18/2010 18:53
2,4-Dinitrotoluene	U		0.090	0.20	µg/L	1	9/18/2010 18:53
2,6-Dinitrotoluene	U		0.070	0.20	µg/L	1	9/18/2010 18:53
2-Chloronaphthalene	U		0.10	0.20	µg/L	1	9/18/2010 18:53
2-Chlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 18:53
2-Methylnaphthalene	U		0.070	0.20	µg/L	1	9/18/2010 18:53
2-Methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 18:53
2-Nitroaniline	U		0.10	0.20	µg/L	1	9/18/2010 18:53
2-Nitrophenol	U		0.070	0.20	µg/L	1	9/18/2010 18:53
3&4-Methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 18:53
3,3'-Dichlorobenzidine	U		0.070	0.20	µg/L	1	9/18/2010 18:53
3-Nitroaniline	U		0.080	0.20	µg/L	1	9/18/2010 18:53
4,6-Dinitro-2-methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 18:53
4-Bromophenyl phenyl ether	U		0.090	0.20	µg/L	1	9/18/2010 18:53
4-Chloro-3-methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 18:53
4-Chloroaniline	U		0.070	0.20	µg/L	1	9/18/2010 18:53
4-Chlorophenyl phenyl ether	U		0.080	0.20	µg/L	1	9/18/2010 18:53
4-Nitroaniline	U		0.070	0.20	µg/L	1	9/18/2010 18:53
4-Nitrophenol	U		0.070	1.0	µg/L	1	9/18/2010 18:53
Acenaphthene	U		0.090	0.20	µg/L	1	9/18/2010 18:53
Acenaphthylene	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Acetophenone	U		0.10	0.20	µg/L	1	9/18/2010 18:53
Anthracene	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Atrazine	U		0.080	0.20	µg/L	1	9/18/2010 18:53
Benz(a)anthracene	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Benzaldehyde	U		0.12	0.20	µg/L	1	9/18/2010 18:53
Benzo(a)pyrene	U		0.080	0.20	µg/L	1	9/18/2010 18:53
Benzo(b)fluoranthene	U		0.090	0.20	µg/L	1	9/18/2010 18:53
Benzo(g,h,i)perylene	U		0.090	0.20	µg/L	1	9/18/2010 18:53
Benzo(k)fluoranthene	U		0.10	0.20	µg/L	1	9/18/2010 18:53
Bis(2-chloroethoxy)methane	U		0.090	0.20	µg/L	1	9/18/2010 18:53
Bis(2-chloroethyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Bis(2-chloroisopropyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Bis(2-ethylhexyl)phthalate	**0.89**		**0.20**	**0.20**	**µg/L**	1	9/18/2010 18:53
Butyl benzyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 18:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWA-09142010
Collection Date: 9/14/2010 12:15 PM

Work Order: 1009543
Lab ID: 1009543-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		0.080	0.20	µg/L	1	9/18/2010 18:53
Carbazole	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Chrysene	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Di-n-butyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Di-n-octyl phthalate	U		0.11	0.20	µg/L	1	9/18/2010 18:53
Dibenz(a,h)anthracene	U		0.080	0.20	µg/L	1	9/18/2010 18:53
Dibenzofuran	U		0.080	0.20	µg/L	1	9/18/2010 18:53
Diethyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Dimethyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 18:53
Fluoranthene	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Fluorene	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Hexachlorobenzene	U		0.10	0.20	µg/L	1	9/18/2010 18:53
Hexachlorobutadiene	U		0.15	0.20	µg/L	1	9/18/2010 18:53
Hexachlorocyclopentadiene	U		0.080	0.20	µg/L	1	9/18/2010 18:53
Hexachloroethane	U		0.17	0.20	µg/L	1	9/18/2010 18:53
Indeno(1,2,3-cd)pyrene	U		0.10	0.20	µg/L	1	9/18/2010 18:53
Isophorone	U		0.070	0.20	µg/L	1	9/18/2010 18:53
N-Nitrosodi-n-propylamine	U		0.10	0.20	µg/L	1	9/18/2010 18:53
N-Nitrosodiphenylamine	U		0.090	0.20	µg/L	1	9/18/2010 18:53
Naphthalene	U		0.10	0.20	µg/L	1	9/18/2010 18:53
Nitrobenzene	U		0.090	0.20	µg/L	1	9/18/2010 18:53
Pentachlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 18:53
Phenanthrene	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Phenol	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Pyrene	U		0.070	0.20	µg/L	1	9/18/2010 18:53
Surr: 2,4,6-Tribromophenol	*44.0*			*34-129*	*%REC*	1	9/18/2010 18:53
Surr: 2-Fluorobiphenyl	*47.8*			*40-125*	*%REC*	1	9/18/2010 18:53
Surr: 2-Fluorophenol	*47.6*			*20-120*	*%REC*	1	9/18/2010 18:53
Surr: 4-Terphenyl-d14	*63.5*			*40-135*	*%REC*	1	9/18/2010 18:53
Surr: Nitrobenzene-d5	*51.0*			*41-120*	*%REC*	1	9/18/2010 18:53
Surr: Phenol-d6	*47.1*			*20-120*	*%REC*	1	9/18/2010 18:53
TCL VOLATILES		Method: **SW8260**					Analyst: **PC**
1,1,1-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/L	1	9/18/2010 01:23
1,1,2-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
1,1-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
1,1-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
1,2,4-Trichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 01:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWA-09142010
Collection Date: 9/14/2010 12:15 PM

Work Order: 1009543
Lab ID: 1009543-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.0	5.0	µg/L	1	9/18/2010 01:23
1,2-Dibromoethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
1,2-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
1,2-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
1,2-Dichloropropane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
1,3-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
1,4-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
2-Butanone	U		0.80	10	µg/L	1	9/18/2010 01:23
2-Hexanone	U		1.0	10	µg/L	1	9/18/2010 01:23
4-Methyl-2-pentanone	U		1.0	10	µg/L	1	9/18/2010 01:23
Acetone	U		1.0	10	µg/L	1	9/18/2010 01:23
Benzene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Bromodichloromethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Bromoform	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Bromomethane	U		0.90	5.0	µg/L	1	9/18/2010 01:23
Carbon disulfide	U		1.0	10	µg/L	1	9/18/2010 01:23
Carbon tetrachloride	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Chlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Chloroethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Chloroform	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Chloromethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
cis-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
cis-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Cyclohexane	U		0.60	5.0	µg/L	1	9/18/2010 01:23
Dibromochloromethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Dichlorodifluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Dichloromethane	U		0.50	10	µg/L	1	9/18/2010 01:23
Ethylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Isopropylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
m,p-Xylene	U		1.0	10	µg/L	1	9/18/2010 01:23
Methyl acetate	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Methyl tert-butyl ether	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Methylcyclohexane	U		0.80	5.0	µg/L	1	9/18/2010 01:23
o-Xylene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Styrene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Tetrachloroethene	U		0.60	5.0	µg/L	1	9/18/2010 01:23
Toluene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
trans-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
trans-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Trichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 01:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWA-09142010
Collection Date: 9/14/2010 12:15 PM

Work Order: 1009543
Lab ID: 1009543-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 01:23
Vinyl chloride	U		0.50	2.0	µg/L	1	9/18/2010 01:23
Xylenes, Total	U		1.0	15	µg/L	1	9/18/2010 01:23
Surr: 1,2-Dichloroethane-d4	*122*			*70-125*	*%REC*	1	9/18/2010 01:23
Surr: 4-Bromofluorobenzene	*96.3*			*72-125*	*%REC*	1	9/18/2010 01:23
Surr: Dibromofluoromethane	*112*			*71-125*	*%REC*	1	9/18/2010 01:23
Surr: Toluene-d8	*102*			*75-125*	*%REC*	1	9/18/2010 01:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWB-09142010
Collection Date: 9/14/2010 12:40 PM

Work Order: 1009543
Lab ID: 1009543-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO		Method: **SW8015M**			Prep: SW3510C / 9/18/10		Analyst: **RPM**
TPH (Oil Range)	U		0.020	0.10	mg/L	1	9/18/2010 13:32
TPH (Diesel Range)	U		0.020	0.050	mg/L	1	9/18/2010 13:32
Surr: 2-Fluorobiphenyl	*70.2*			*70-130*	*%REC*	1	9/18/2010 13:32
GASOLINE RANGE ORGANICS		Method: **SW8015**					Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.0500	mg/L	1	9/18/2010 11:23
Surr: 4-Bromofluorobenzene	*97.0*			*70-130*	*%REC*	1	9/18/2010 11:23
MERCURY		Method: **SW7470**			Prep: SW7470 / 9/17/10		Analyst: **ALR**
Mercury	U		0.000042	0.000200	mg/L	1	9/18/2010 17:18
METALS		Method: **SW6020**			Prep: SW3010A / 9/17/10		Analyst: **ALR**
Aluminum	**6.02**		**0.074**	**0.200**	**mg/L**	20	9/18/2010 16:56
Antimony	U		0.010	0.100	mg/L	20	9/18/2010 16:56
Arsenic	U		0.018	0.100	mg/L	20	9/18/2010 16:56
Barium	**0.0430**	J	**0.014**	**0.100**	**mg/L**	20	9/18/2010 16:56
Beryllium	U		0.0060	0.0400	mg/L	20	9/18/2010 16:56
Cadmium	U		0.012	0.0400	mg/L	20	9/18/2010 16:56
Calcium	**372**		**1.0**	**10.0**	**mg/L**	20	9/18/2010 16:56
Chromium	U		0.012	0.100	mg/L	20	9/18/2010 16:56
Cobalt	U		0.010	0.100	mg/L	20	9/18/2010 16:56
Copper	**0.0430**	J	**0.010**	**0.100**	**mg/L**	20	9/18/2010 16:56
Iron	**4.89**		**0.72**	**4.00**	**mg/L**	20	9/18/2010 16:56
Lead	**0.0185**	J	**0.0080**	**0.100**	**mg/L**	20	9/18/2010 16:56
Magnesium	**1,140**		**3.9**	**20.0**	**mg/L**	100	9/18/2010 15:57
Manganese	**0.575**		**0.016**	**0.100**	**mg/L**	20	9/18/2010 16:56
Nickel	**0.0174**	J	**0.0070**	**0.0250**	**mg/L**	5	9/18/2010 18:32
Potassium	**336**		**2.0**	**4.00**	**mg/L**	20	9/18/2010 16:56
Selenium	U		0.050	0.100	mg/L	20	9/18/2010 16:56
Silver	U		0.014	0.100	mg/L	20	9/18/2010 16:56
Sodium	**9,530**		**10**	**20.0**	**mg/L**	100	9/18/2010 15:57
Thallium	U		0.016	0.0400	mg/L	20	9/18/2010 16:56
Vanadium	**0.0176**	J	**0.014**	**0.100**	**mg/L**	20	9/18/2010 16:56
Zinc	U		0.050	0.100	mg/L	20	9/18/2010 16:56
PARENT/ALKYL PAH		Method: **SW8270SIM**			Prep: SW3520A / 9/17/10		Analyst: **HV**
1-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
2-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
2-Methylnaphthalene-d10	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Acenaphthene	U		0.050	0.10	ug/L	1	9/18/2010 07:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWB-09142010
Collection Date: 9/14/2010 12:40 PM

Work Order: 1009543
Lab ID: 1009543-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Anthracene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Benz(a)anthracene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Benzo(a)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Benzo(b)fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Benzo(e)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Benzo(g,h,i)perylene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Benzo(k)fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C1-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C1-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C1-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C1-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C2-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C2-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C2-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C2-naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C2-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C3-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C3-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C3-Fluorenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C3-naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C3-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C4-Chrysenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C4-Naphthalenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
C4-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Chrysene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Dibenz(a,h)anthracene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Fluoranthene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Fluorene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Indeno(1,2,3-cd)pyrene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Naphthalene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Perylene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Phenanthrene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Pyrene	U		0.050	0.10	ug/L	1	9/18/2010 07:26
Surr: Acenaphthylene-d8	*72.8*			*41-107*	*%REC*	1	9/18/2010 07:26
Surr: Anthracene-d10	*75.7*			*44-110*	*%REC*	1	9/18/2010 07:26
Surr: Benzo(a)pyrene-d12	*76.1*			*32-121*	*%REC*	1	9/18/2010 07:26
Surr: Pyrene-d10	*77.5*			*52-119*	*%REC*	1	9/18/2010 07:26
LOW-LEVEL SEMIVOLATILES			Method: **SW8270**		Prep: SW3510 / 9/18/10		Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWB-09142010
Collection Date: 9/14/2010 12:40 PM

Work Order: 1009543
Lab ID: 1009543-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		0.10	0.20	µg/L	1	9/18/2010 19:13
2,4,5-Trichlorophenol	U		0.090	0.20	µg/L	1	9/18/2010 19:13
2,4,6-Trichlorophenol	U		0.070	0.20	µg/L	1	9/18/2010 19:13
2,4-Dichlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 19:13
2,4-Dimethylphenol	U		0.080	0.20	µg/L	1	9/18/2010 19:13
2,4-Dinitrophenol	U		0.080	1.0	µg/L	1	9/18/2010 19:13
2,4-Dinitrotoluene	U		0.090	0.20	µg/L	1	9/18/2010 19:13
2,6-Dinitrotoluene	U		0.070	0.20	µg/L	1	9/18/2010 19:13
2-Chloronaphthalene	U		0.10	0.20	µg/L	1	9/18/2010 19:13
2-Chlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 19:13
2-Methylnaphthalene	U		0.070	0.20	µg/L	1	9/18/2010 19:13
2-Methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 19:13
2-Nitroaniline	U		0.10	0.20	µg/L	1	9/18/2010 19:13
2-Nitrophenol	U		0.070	0.20	µg/L	1	9/18/2010 19:13
3&4-Methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 19:13
3,3'-Dichlorobenzidine	U		0.070	0.20	µg/L	1	9/18/2010 19:13
3-Nitroaniline	U		0.080	0.20	µg/L	1	9/18/2010 19:13
4,6-Dinitro-2-methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 19:13
4-Bromophenyl phenyl ether	U		0.090	0.20	µg/L	1	9/18/2010 19:13
4-Chloro-3-methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 19:13
4-Chloroaniline	U		0.070	0.20	µg/L	1	9/18/2010 19:13
4-Chlorophenyl phenyl ether	U		0.080	0.20	µg/L	1	9/18/2010 19:13
4-Nitroaniline	U		0.070	0.20	µg/L	1	9/18/2010 19:13
4-Nitrophenol	U		0.070	1.0	µg/L	1	9/18/2010 19:13
Acenaphthene	U		0.090	0.20	µg/L	1	9/18/2010 19:13
Acenaphthylene	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Acetophenone	U		0.10	0.20	µg/L	1	9/18/2010 19:13
Anthracene	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Atrazine	U		0.080	0.20	µg/L	1	9/18/2010 19:13
Benz(a)anthracene	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Benzaldehyde	U		0.12	0.20	µg/L	1	9/18/2010 19:13
Benzo(a)pyrene	U		0.080	0.20	µg/L	1	9/18/2010 19:13
Benzo(b)fluoranthene	U		0.090	0.20	µg/L	1	9/18/2010 19:13
Benzo(g,h,i)perylene	U		0.090	0.20	µg/L	1	9/18/2010 19:13
Benzo(k)fluoranthene	U		0.10	0.20	µg/L	1	9/18/2010 19:13
Bis(2-chloroethoxy)methane	U		0.090	0.20	µg/L	1	9/18/2010 19:13
Bis(2-chloroethyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Bis(2-chloroisopropyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Bis(2-ethylhexyl)phthalate	**0.77**		**0.20**	**0.20**	**µg/L**	1	9/18/2010 19:13
Butyl benzyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 19:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWB-09142010
Collection Date: 9/14/2010 12:40 PM

Work Order: 1009543
Lab ID: 1009543-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		0.080	0.20	µg/L	1	9/18/2010 19:13
Carbazole	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Chrysene	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Di-n-butyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Di-n-octyl phthalate	U		0.11	0.20	µg/L	1	9/18/2010 19:13
Dibenz(a,h)anthracene	U		0.080	0.20	µg/L	1	9/18/2010 19:13
Dibenzofuran	U		0.080	0.20	µg/L	1	9/18/2010 19:13
Diethyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Dimethyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 19:13
Fluoranthene	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Fluorene	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Hexachlorobenzene	U		0.10	0.20	µg/L	1	9/18/2010 19:13
Hexachlorobutadiene	U		0.15	0.20	µg/L	1	9/18/2010 19:13
Hexachlorocyclopentadiene	U		0.080	0.20	µg/L	1	9/18/2010 19:13
Hexachloroethane	U		0.17	0.20	µg/L	1	9/18/2010 19:13
Indeno(1,2,3-cd)pyrene	U		0.10	0.20	µg/L	1	9/18/2010 19:13
Isophorone	U		0.070	0.20	µg/L	1	9/18/2010 19:13
N-Nitrosodi-n-propylamine	U		0.10	0.20	µg/L	1	9/18/2010 19:13
N-Nitrosodiphenylamine	U		0.090	0.20	µg/L	1	9/18/2010 19:13
Naphthalene	U		0.10	0.20	µg/L	1	9/18/2010 19:13
Nitrobenzene	U		0.090	0.20	µg/L	1	9/18/2010 19:13
Pentachlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 19:13
Phenanthrene	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Phenol	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Pyrene	U		0.070	0.20	µg/L	1	9/18/2010 19:13
Surr: 2,4,6-Tribromophenol	*39.7*			*34-129*	*%REC*	1	9/18/2010 19:13
Surr: 2-Fluorobiphenyl	*42.2*			*40-125*	*%REC*	1	9/18/2010 19:13
Surr: 2-Fluorophenol	*38.8*			*20-120*	*%REC*	1	9/18/2010 19:13
Surr: 4-Terphenyl-d14	*68.5*			*40-135*	*%REC*	1	9/18/2010 19:13
Surr: Nitrobenzene-d5	*44.9*			*41-120*	*%REC*	1	9/18/2010 19:13
Surr: Phenol-d6	*39.0*			*20-120*	*%REC*	1	9/18/2010 19:13
TCL VOLATILES		Method: **SW8260**					Analyst: **PC**
1,1,1-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/L	1	9/18/2010 17:31
1,1,2-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
1,1-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
1,1-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
1,2,4-Trichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWB-09142010
Collection Date: 9/14/2010 12:40 PM

Work Order: 1009543
Lab ID: 1009543-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.0	5.0	µg/L	1	9/18/2010 17:31
1,2-Dibromoethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
1,2-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
1,2-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
1,2-Dichloropropane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
1,3-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
1,4-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
2-Butanone	U		0.80	10	µg/L	1	9/18/2010 17:31
2-Hexanone	U		1.0	10	µg/L	1	9/18/2010 17:31
4-Methyl-2-pentanone	U		1.0	10	µg/L	1	9/18/2010 17:31
Acetone	U		1.0	10	µg/L	1	9/18/2010 17:31
Benzene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Bromodichloromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Bromoform	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Bromomethane	U		0.90	5.0	µg/L	1	9/18/2010 17:31
Carbon disulfide	U		1.0	10	µg/L	1	9/18/2010 17:31
Carbon tetrachloride	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Chlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Chloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Chloroform	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Chloromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
cis-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
cis-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Cyclohexane	U		0.60	5.0	µg/L	1	9/18/2010 17:31
Dibromochloromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Dichlorodifluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Dichloromethane	U		0.50	10	µg/L	1	9/18/2010 17:31
Ethylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Isopropylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
m,p-Xylene	U		1.0	10	µg/L	1	9/18/2010 17:31
Methyl acetate	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Methyl tert-butyl ether	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Methylcyclohexane	U		0.80	5.0	µg/L	1	9/18/2010 17:31
o-Xylene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Styrene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Tetrachloroethene	U		0.60	5.0	µg/L	1	9/18/2010 17:31
Toluene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
trans-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
trans-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Trichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-83-D-SWB-09142010
Collection Date: 9/14/2010 12:40 PM

Work Order: 1009543
Lab ID: 1009543-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:31
Vinyl chloride	U		0.50	2.0	µg/L	1	9/18/2010 17:31
Xylenes, Total	U		1.0	15	µg/L	1	9/18/2010 17:31
Surr: 1,2-Dichloroethane-d4	*117*			*70-125*	*%REC*	1	9/18/2010 17:31
Surr: 4-Bromofluorobenzene	*92.1*			*72-125*	*%REC*	1	9/18/2010 17:31
Surr: Dibromofluoromethane	*107*			*71-125*	*%REC*	1	9/18/2010 17:31
Surr: Toluene-d8	*98.0*			*75-125*	*%REC*	1	9/18/2010 17:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SD-09142010
Collection Date: 9/14/2010 04:00 PM

Work Order: 1009543
Lab ID: 1009543-09
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO		Method: **SW8015M**			Prep: SW3541 / 9/17/10		Analyst: **RPM**
TPH (Oil Range)	**0.87**	J	**0.62**	**4.2**	**mg/Kg-dry**	1	9/19/2010 23:12
TPH (Diesel Range)	U		0.62	2.1	mg/Kg-dry	1	9/19/2010 23:12
Surr: 2-Fluorobiphenyl	*75.5*			*70-130*	*%REC*	1	9/19/2010 23:12
GASOLINE RANGE ORGANICS		Method: **SW8015**					Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.049	mg/Kg-dry	0.796	9/17/2010 21:35
Surr: 4-Bromofluorobenzene	*74.9*			*70-130*	*%REC*	0.796	9/17/2010 21:35
MERCURY		Method: **SW7471A**			Prep: SW7471A / 9/18/10		Analyst: **ALR**
Mercury	U		0.27	4.46	µg/Kg-dry	1	9/18/2010 17:59
METALS		Method: **SW6020**			Prep: SW3050A / 9/17/10		Analyst: **ALR**
Aluminum	**112**		**0.23**	**1.15**	**mg/Kg-dry**	1	9/19/2010 01:05
Antimony	U		0.29	0.577	mg/Kg-dry	1	9/19/2010 01:05
Arsenic	**0.767**		**0.069**	**0.577**	**mg/Kg-dry**	1	9/19/2010 01:05
Barium	**0.835**		**0.092**	**0.577**	**mg/Kg-dry**	1	9/19/2010 01:05
Beryllium	U		0.058	0.577	mg/Kg-dry	1	9/19/2010 01:05
Cadmium	U		0.046	0.577	mg/Kg-dry	1	9/19/2010 01:05
Calcium	**3,080**		**12**	**57.7**	**mg/Kg-dry**	1	9/19/2010 01:05
Chromium	**1.06**		**0.058**	**0.577**	**mg/Kg-dry**	1	9/19/2010 01:05
Cobalt	**0.0892**	J	**0.035**	**0.577**	**mg/Kg-dry**	1	9/19/2010 01:05
Copper	**0.426**	J	**0.16**	**0.577**	**mg/Kg-dry**	1	9/19/2010 01:05
Iron	**312**		**4.6**	**57.7**	**mg/Kg-dry**	1	9/19/2010 01:05
Lead	**0.408**	J	**0.058**	**0.577**	**mg/Kg-dry**	1	9/19/2010 01:05
Magnesium	**463**		**3.8**	**57.7**	**mg/Kg-dry**	1	9/19/2010 01:05
Manganese	**7.71**		**0.081**	**0.577**	**mg/Kg-dry**	1	9/19/2010 01:05
Nickel	**0.248**	J	**0.069**	**0.577**	**mg/Kg-dry**	1	9/19/2010 01:05
Potassium	**123**		**4.2**	**57.7**	**mg/Kg-dry**	1	9/19/2010 01:05
Selenium	U		0.29	0.577	mg/Kg-dry	1	9/19/2010 01:05
Silver	U		0.046	0.577	mg/Kg-dry	1	9/19/2010 01:05
Sodium	**2,240**		**4.6**	**57.7**	**mg/Kg-dry**	1	9/19/2010 01:05
Thallium	U		0.081	0.577	mg/Kg-dry	1	9/19/2010 01:05
Vanadium	**0.862**		**0.081**	**0.577**	**mg/Kg-dry**	1	9/19/2010 01:05
Zinc	**1.45**		**0.29**	**0.577**	**mg/Kg-dry**	1	9/19/2010 01:05
PARENT/ALKYL PAHS		Method: **SW8270SIM**			Prep: SW3541 / 9/17/10		Analyst: **HV**
1-Methylnaphthalene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
2-Methylnaphthalene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
2-Methylnaphthalene-d10	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Acenaphthene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SD-09142010
Collection Date: 9/14/2010 04:00 PM

Work Order: 1009543
Lab ID: 1009543-09
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Anthracene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Benz(a)anthracene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Benzo(a)pyrene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Benzo(b)fluoranthene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Benzo(e)pyrene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Benzo(g,h,i)perylene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Benzo(k)fluoranthene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C1-Chrysenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C1-Fluoranthenes/Pyrenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C1-Fluorenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C1-Phenanthrenes/anthracenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C2-Chrysenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C2-Fluoranthenes/Pyrenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C2-Fluorenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C2-naphthalenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C2-Phenanthrenes/anthracenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C3-Chrysenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C3-Fluoranthenes/Pyrenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C3-Fluorenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C3-naphthalenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C3-Phenanthrenes/anthracenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C4-Chrysenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C4-Naphthalenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
C4-Phenanthrenes/anthracenes	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Chrysene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Dibenz(a,h)anthracene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Fluoranthene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Fluorene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Indeno(1,2,3-cd)pyrene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Naphthalene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Perylene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Phenanthrene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Pyrene	U		2.5	4.1	ug/Kg-dry	1	9/18/2010 00:53
Surr: Acenaphthylene-d8	*63.7*			*20-97*	*%REC*	1	9/18/2010 00:53
Surr: Anthracene-d10	*66.1*			*22-98*	*%REC*	1	9/18/2010 00:53
Surr: Benzo(a)pyrene-d12	*77.3*			*43-111*	*%REC*	1	9/18/2010 00:53
Surr: Pyrene-d10	*77.0*			*51-120*	*%REC*	1	9/18/2010 00:53

LOW-LEVEL SEMIVOLATILES Method: **SW8270** Prep: SW3541 / 9/17/10 Analyst: **KMB**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SD-09142010
Collection Date: 9/14/2010 04:00 PM

Work Order: 1009543
Lab ID: 1009543-09
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		3.6	8.2	µg/Kg-dry	1	9/18/2010 01:51
2,4,5-Trichlorophenol	U		3.5	8.2	µg/Kg-dry	1	9/18/2010 01:51
2,4,6-Trichlorophenol	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
2,4-Dichlorophenol	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
2,4-Dimethylphenol	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
2,4-Dinitrophenol	U		4.1	41	µg/Kg-dry	1	9/18/2010 01:51
2,4-Dinitrotoluene	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
2,6-Dinitrotoluene	U		4.0	8.2	µg/Kg-dry	1	9/18/2010 01:51
2-Chloronaphthalene	U		5.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
2-Chlorophenol	U		4.0	8.2	µg/Kg-dry	1	9/18/2010 01:51
2-Methylnaphthalene	U		3.3	8.2	µg/Kg-dry	1	9/18/2010 01:51
2-Methylphenol	U		3.6	8.2	µg/Kg-dry	1	9/18/2010 01:51
2-Nitroaniline	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
2-Nitrophenol	U		5.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
3&4-Methylphenol	U		3.5	8.2	µg/Kg-dry	1	9/18/2010 01:51
3,3'-Dichlorobenzidine	U		3.8	8.2	µg/Kg-dry	1	9/18/2010 01:51
3-Nitroaniline	U		3.2	8.2	µg/Kg-dry	1	9/18/2010 01:51
4,6-Dinitro-2-methylphenol	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
4-Bromophenyl phenyl ether	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
4-Chloro-3-methylphenol	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
4-Chloroaniline	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
4-Chlorophenyl phenyl ether	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
4-Nitroaniline	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
4-Nitrophenol	U		4.7	41	µg/Kg-dry	1	9/18/2010 01:51
Acenaphthene	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Acenaphthylene	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Acetophenone	U		3.0	8.2	µg/Kg-dry	1	9/18/2010 01:51
Anthracene	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Atrazine	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
Benz(a)anthracene	U		3.5	8.2	µg/Kg-dry	1	9/18/2010 01:51
Benzaldehyde	U		5.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Benzo(a)pyrene	U		2.8	8.2	µg/Kg-dry	1	9/18/2010 01:51
Benzo(b)fluoranthene	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
Benzo(g,h,i)perylene	U		3.6	8.2	µg/Kg-dry	1	9/18/2010 01:51
Benzo(k)fluoranthene	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
Bis(2-chloroethoxy)methane	U		3.0	8.2	µg/Kg-dry	1	9/18/2010 01:51
Bis(2-chloroethyl)ether	U		3.5	8.2	µg/Kg-dry	1	9/18/2010 01:51
Bis(2-chloroisopropyl)ether	U		3.3	8.2	µg/Kg-dry	1	9/18/2010 01:51
Bis(2-ethylhexyl)phthalate	**9.2**		**8.2**	**8.2**	**µg/Kg-dry**	1	9/18/2010 01:51
Butyl benzyl phthalate	U		3.1	8.2	µg/Kg-dry	1	9/18/2010 01:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SD-09142010
Collection Date: 9/14/2010 04:00 PM

Work Order: 1009543
Lab ID: 1009543-09
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		3.0	8.2	µg/Kg-dry	1	9/18/2010 01:51
Carbazole	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Chrysene	U		3.6	8.2	µg/Kg-dry	1	9/18/2010 01:51
Di-n-butyl phthalate	U		3.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
Di-n-octyl phthalate	U		3.6	8.2	µg/Kg-dry	1	9/18/2010 01:51
Dibenz(a,h)anthracene	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Dibenzofuran	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Diethyl phthalate	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
Dimethyl phthalate	U		3.0	8.2	µg/Kg-dry	1	9/18/2010 01:51
Fluoranthene	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Fluorene	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Hexachlorobenzene	U		3.2	8.2	µg/Kg-dry	1	9/18/2010 01:51
Hexachlorobutadiene	U		5.4	8.2	µg/Kg-dry	1	9/18/2010 01:51
Hexachlorocyclopentadiene	U		4.4	8.2	µg/Kg-dry	1	9/18/2010 01:51
Hexachloroethane	U		4.8	8.2	µg/Kg-dry	1	9/18/2010 01:51
Indeno(1,2,3-cd)pyrene	U		4.3	8.2	µg/Kg-dry	1	9/18/2010 01:51
Isophorone	U		3.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
N-Nitrosodi-n-propylamine	U		4.9	8.2	µg/Kg-dry	1	9/18/2010 01:51
N-Nitrosodiphenylamine	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Naphthalene	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
Nitrobenzene	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
Pentachlorophenol	U		3.5	8.2	µg/Kg-dry	1	9/18/2010 01:51
Phenanthrene	U		3.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Phenol	U		4.1	8.2	µg/Kg-dry	1	9/18/2010 01:51
Pyrene	U		2.7	8.2	µg/Kg-dry	1	9/18/2010 01:51
Surr: 2,4,6-Tribromophenol	*71.1*			*36-126*	*%REC*	1	9/18/2010 01:51
Surr: 2-Fluorobiphenyl	*69.0*			*43-125*	*%REC*	1	9/18/2010 01:51
Surr: 2-Fluorophenol	*60.0*			*37-125*	*%REC*	1	9/18/2010 01:51
Surr: 4-Terphenyl-d14	*69.5*			*32-125*	*%REC*	1	9/18/2010 01:51
Surr: Nitrobenzene-d5	*64.7*			*37-125*	*%REC*	1	9/18/2010 01:51
Surr: Phenol-d6	*63.9*			*40-125*	*%REC*	1	9/18/2010 01:51
TCL VOLATILES		Method: **SW8260**					Analyst: **WLR**
1,1,1-Trichloroethane	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,1,2,2-Tetrachloroethane	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.57	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,1,2-Trichloroethane	U		0.76	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,1-Dichloroethane	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,1-Dichloroethene	U		0.76	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,2,4-Trichlorobenzene	U		0.66	4.7	µg/Kg-dry	0.765	9/18/2010 12:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SD-09142010
Collection Date: 9/14/2010 04:00 PM

Work Order: 1009543
Lab ID: 1009543-09
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.8	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,2-Dibromoethane	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,2-Dichlorobenzene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,2-Dichloroethane	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,2-Dichloropropane	U		0.66	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,3-Dichlorobenzene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
1,4-Dichlorobenzene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
2-Butanone	U		1.8	9.5	µg/Kg-dry	0.765	9/18/2010 12:50
2-Hexanone	U		1.0	9.5	µg/Kg-dry	0.765	9/18/2010 12:50
4-Methyl-2-pentanone	U		0.95	9.5	µg/Kg-dry	0.765	9/18/2010 12:50
Acetone	**5.3**	J	**4.7**	**24**	**µg/Kg-dry**	0.765	9/18/2010 12:50
Benzene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Bromodichloromethane	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Bromoform	U		0.76	9.5	µg/Kg-dry	0.765	9/18/2010 12:50
Bromomethane	U		0.95	9.5	µg/Kg-dry	0.765	9/18/2010 12:50
Carbon disulfide	**4.6**	J	**0.95**	**9.5**	**µg/Kg-dry**	0.765	9/18/2010 12:50
Carbon tetrachloride	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Chlorobenzene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Chloroethane	U		0.95	9.5	µg/Kg-dry	0.765	9/18/2010 12:50
Chloroform	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Chloromethane	U		0.95	9.5	µg/Kg-dry	0.765	9/18/2010 12:50
cis-1,2-Dichloroethene	U		0.57	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
cis-1,3-Dichloropropene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Cyclohexane	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Dibromochloromethane	U		0.57	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Dichlorodifluoromethane	U		0.76	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Dichloromethane	U		1.3	9.5	µg/Kg-dry	0.765	9/18/2010 12:50
Ethylbenzene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Isopropylbenzene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
m,p-Xylene	U		0.95	9.5	µg/Kg-dry	0.765	9/18/2010 12:50
Methyl acetate	U		1.1	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Methyl tert-butyl ether	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Methylcyclohexane	U		0.57	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
o-Xylene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Styrene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Tetrachloroethene	U		0.57	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Toluene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
trans-1,2-Dichloroethene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
trans-1,3-Dichloropropene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Trichloroethene	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SD-09142010
Collection Date: 9/14/2010 04:00 PM

Work Order: 1009543
Lab ID: 1009543-09
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.47	4.7	µg/Kg-dry	0.765	9/18/2010 12:50
Vinyl chloride	U		0.95	1.9	µg/Kg-dry	0.765	9/18/2010 12:50
Xylenes, Total	U		0.95	14	µg/Kg-dry	0.765	9/18/2010 12:50
Surr: 1,2-Dichloroethane-d4	*107*			*70-128*	*%REC*	0.765	9/18/2010 12:50
Surr: 4-Bromofluorobenzene	*103*			*73-126*	*%REC*	0.765	9/18/2010 12:50
Surr: Dibromofluoromethane	*108*			*71-128*	*%REC*	0.765	9/18/2010 12:50
Surr: Toluene-d8	*102*			*73-127*	*%REC*	0.765	9/18/2010 12:50
MISCELLANEOUS ANALYSIS		Method: **NA**					Analyst: **HN**
Miscellaneous Analysis	**See Attached**		**0**		**-dry**	1	9/17/2010
MOISTURE		Method: **E160.3**					Analyst: **JLC**
Percent Moisture	**19.1**		**0.010**	**0.0100**	**wt%**	1	9/17/2010 12:00
AMMONIA AS N		Method: **SM4500 NH3-B-F**			Prep: M4500-NH3 BE / 9/17/10		Analyst: **IAB**
Nitrogen, Ammonia (as N)	**109**		**1.3**	**6.65**	**mg/Kg-dry**	1	9/17/2010 15:00
TOTAL ORGANIC CARBON		Method: **WALKLEY-BLACK**					Analyst: **JLC**
Total Organic Carbon	U		0.020	0.0200	wt%	1	9/20/2010 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWA-09142010
Collection Date: 9/14/2010 03:12 PM

Work Order: 1009543
Lab ID: 1009543-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO		Method: **SW8015M**			Prep: SW3510C / 9/18/10		Analyst: **RPM**
TPH (Oil Range)	U		0.020	0.10	mg/L	1	9/18/2010 13:52
TPH (Diesel Range)	U		0.020	0.050	mg/L	1	9/18/2010 13:52
Surr: 2-Fluorobiphenyl	*70.3*			*70-130*	*%REC*	1	9/18/2010 13:52
GASOLINE RANGE ORGANICS		Method: **SW8015**					Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.0500	mg/L	1	9/18/2010 11:40
Surr: 4-Bromofluorobenzene	*95.2*			*70-130*	*%REC*	1	9/18/2010 11:40
MERCURY		Method: **SW7470**			Prep: SW7470 / 9/17/10		Analyst: **ALR**
Mercury	U		0.000042	0.000200	mg/L	1	9/18/2010 17:20
METALS		Method: **SW6020**			Prep: SW3010A / 9/17/10		Analyst: **ALR**
Aluminum	U		0.074	0.200	mg/L	20	9/18/2010 17:12
Antimony	U		0.010	0.100	mg/L	20	9/18/2010 17:12
Arsenic	U		0.018	0.100	mg/L	20	9/18/2010 17:12
Barium	**0.0230**	J	**0.014**	**0.100**	**mg/L**	20	9/18/2010 17:12
Beryllium	U		0.0060	0.0400	mg/L	20	9/18/2010 17:12
Cadmium	U		0.012	0.0400	mg/L	20	9/18/2010 17:12
Calcium	**380**		**1.0**	**10.0**	**mg/L**	20	9/18/2010 17:12
Chromium	U		0.012	0.100	mg/L	20	9/18/2010 17:12
Cobalt	U		0.010	0.100	mg/L	20	9/18/2010 17:12
Copper	U		0.010	0.100	mg/L	20	9/18/2010 17:12
Iron	U		0.72	4.00	mg/L	20	9/18/2010 17:12
Lead	**0.00916**	J	**0.0080**	**0.100**	**mg/L**	20	9/18/2010 17:12
Magnesium	**902**		**3.9**	**20.0**	**mg/L**	100	9/18/2010 16:02
Manganese	U		0.016	0.100	mg/L	20	9/18/2010 17:12
Nickel	**0.0156**	J	**0.0070**	**0.0250**	**mg/L**	5	9/18/2010 18:37
Potassium	**330**		**2.0**	**4.00**	**mg/L**	20	9/18/2010 17:12
Selenium	U		0.050	0.100	mg/L	20	9/18/2010 17:12
Silver	U		0.014	0.100	mg/L	20	9/18/2010 17:12
Sodium	**7,620**		**10**	**20.0**	**mg/L**	100	9/18/2010 16:02
Thallium	U		0.016	0.0400	mg/L	20	9/18/2010 17:12
Vanadium	U		0.014	0.100	mg/L	20	9/18/2010 17:12
Zinc	U		0.050	0.100	mg/L	20	9/18/2010 17:12
PARENT/ALKYL PAH		Method: **SW8270SIM**			Prep: SW3520A / 9/18/10		Analyst: **HV**
1-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
2-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
2-Methylnaphthalene-d10	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Acenaphthene	U		0.050	0.10	ug/L	1	9/19/2010 21:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWA-09142010
Collection Date: 9/14/2010 03:12 PM

Work Order: 1009543
Lab ID: 1009543-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Anthracene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Benz(a)anthracene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Benzo(a)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Benzo(b)fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Benzo(e)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Benzo(g,h,i)perylene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Benzo(k)fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C1-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C1-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C1-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C1-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C2-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C2-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C2-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C2-naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C2-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C3-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C3-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C3-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C3-naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C3-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C4-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C4-Naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
C4-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Chrysene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Dibenz(a,h)anthracene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Fluorene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Indeno(1,2,3-cd)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Naphthalene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Perylene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Phenanthrene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Pyrene	U		0.050	0.10	ug/L	1	9/19/2010 21:48
Surr: Acenaphthylene-d8	*71.5*			*41-107*	*%REC*	1	9/19/2010 21:48
Surr: Anthracene-d10	*68.2*			*44-110*	*%REC*	1	9/19/2010 21:48
Surr: Benzo(a)pyrene-d12	*73.6*			*32-121*	*%REC*	1	9/19/2010 21:48
Surr: Pyrene-d10	*71.9*			*52-119*	*%REC*	1	9/19/2010 21:48
LOW-LEVEL SEMIVOLATILES			Method: **SW8270**		Prep: SW3510 / 9/18/10		Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWA-09142010
Collection Date: 9/14/2010 03:12 PM

Work Order: 1009543
Lab ID: 1009543-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		0.10	0.20	µg/L	1	9/18/2010 19:32
2,4,5-Trichlorophenol	U		0.090	0.20	µg/L	1	9/18/2010 19:32
2,4,6-Trichlorophenol	U		0.070	0.20	µg/L	1	9/18/2010 19:32
2,4-Dichlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 19:32
2,4-Dimethylphenol	U		0.080	0.20	µg/L	1	9/18/2010 19:32
2,4-Dinitrophenol	U		0.080	1.0	µg/L	1	9/18/2010 19:32
2,4-Dinitrotoluene	U		0.090	0.20	µg/L	1	9/18/2010 19:32
2,6-Dinitrotoluene	U		0.070	0.20	µg/L	1	9/18/2010 19:32
2-Chloronaphthalene	U		0.10	0.20	µg/L	1	9/18/2010 19:32
2-Chlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 19:32
2-Methylnaphthalene	U		0.070	0.20	µg/L	1	9/18/2010 19:32
2-Methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 19:32
2-Nitroaniline	U		0.10	0.20	µg/L	1	9/18/2010 19:32
2-Nitrophenol	U		0.070	0.20	µg/L	1	9/18/2010 19:32
3&4-Methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 19:32
3,3'-Dichlorobenzidine	U		0.070	0.20	µg/L	1	9/18/2010 19:32
3-Nitroaniline	U		0.080	0.20	µg/L	1	9/18/2010 19:32
4,6-Dinitro-2-methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 19:32
4-Bromophenyl phenyl ether	U		0.090	0.20	µg/L	1	9/18/2010 19:32
4-Chloro-3-methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 19:32
4-Chloroaniline	U		0.070	0.20	µg/L	1	9/18/2010 19:32
4-Chlorophenyl phenyl ether	U		0.080	0.20	µg/L	1	9/18/2010 19:32
4-Nitroaniline	U		0.070	0.20	µg/L	1	9/18/2010 19:32
4-Nitrophenol	U		0.070	1.0	µg/L	1	9/18/2010 19:32
Acenaphthene	U		0.090	0.20	µg/L	1	9/18/2010 19:32
Acenaphthylene	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Acetophenone	U		0.10	0.20	µg/L	1	9/18/2010 19:32
Anthracene	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Atrazine	U		0.080	0.20	µg/L	1	9/18/2010 19:32
Benz(a)anthracene	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Benzaldehyde	U		0.12	0.20	µg/L	1	9/18/2010 19:32
Benzo(a)pyrene	U		0.080	0.20	µg/L	1	9/18/2010 19:32
Benzo(b)fluoranthene	U		0.090	0.20	µg/L	1	9/18/2010 19:32
Benzo(g,h,i)perylene	U		0.090	0.20	µg/L	1	9/18/2010 19:32
Benzo(k)fluoranthene	U		0.10	0.20	µg/L	1	9/18/2010 19:32
Bis(2-chloroethoxy)methane	U		0.090	0.20	µg/L	1	9/18/2010 19:32
Bis(2-chloroethyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Bis(2-chloroisopropyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Bis(2-ethylhexyl)phthalate	**0.71**		**0.20**	**0.20**	**µg/L**	**1**	9/18/2010 19:32
Butyl benzyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 19:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWA-09142010
Collection Date: 9/14/2010 03:12 PM

Work Order: 1009543
Lab ID: 1009543-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		0.080	0.20	µg/L	1	9/18/2010 19:32
Carbazole	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Chrysene	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Di-n-butyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Di-n-octyl phthalate	U		0.11	0.20	µg/L	1	9/18/2010 19:32
Dibenz(a,h)anthracene	U		0.080	0.20	µg/L	1	9/18/2010 19:32
Dibenzofuran	U		0.080	0.20	µg/L	1	9/18/2010 19:32
Diethyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Dimethyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 19:32
Fluoranthene	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Fluorene	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Hexachlorobenzene	U		0.10	0.20	µg/L	1	9/18/2010 19:32
Hexachlorobutadiene	U		0.15	0.20	µg/L	1	9/18/2010 19:32
Hexachlorocyclopentadiene	U		0.080	0.20	µg/L	1	9/18/2010 19:32
Hexachloroethane	U		0.17	0.20	µg/L	1	9/18/2010 19:32
Indeno(1,2,3-cd)pyrene	U		0.10	0.20	µg/L	1	9/18/2010 19:32
Isophorone	U		0.070	0.20	µg/L	1	9/18/2010 19:32
N-Nitrosodi-n-propylamine	U		0.10	0.20	µg/L	1	9/18/2010 19:32
N-Nitrosodiphenylamine	U		0.090	0.20	µg/L	1	9/18/2010 19:32
Naphthalene	U		0.10	0.20	µg/L	1	9/18/2010 19:32
Nitrobenzene	U		0.090	0.20	µg/L	1	9/18/2010 19:32
Pentachlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 19:32
Phenanthrene	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Phenol	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Pyrene	U		0.070	0.20	µg/L	1	9/18/2010 19:32
Surr: 2,4,6-Tribromophenol	*42.0*			*34-129*	*%REC*	1	9/18/2010 19:32
Surr: 2-Fluorobiphenyl	*46.0*			*40-125*	*%REC*	1	9/18/2010 19:32
Surr: 2-Fluorophenol	*44.7*			*20-120*	*%REC*	1	9/18/2010 19:32
Surr: 4-Terphenyl-d14	*65.7*			*40-135*	*%REC*	1	9/18/2010 19:32
Surr: Nitrobenzene-d5	*47.3*			*41-120*	*%REC*	1	9/18/2010 19:32
Surr: Phenol-d6	*44.6*			*20-120*	*%REC*	1	9/18/2010 19:32
TCL VOLATILES		Method: **SW8260**					Analyst: **PC**
1,1,1-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/L	1	9/18/2010 02:11
1,1,2-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
1,1-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
1,1-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
1,2,4-Trichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 02:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWA-09142010
Collection Date: 9/14/2010 03:12 PM

Work Order: 1009543
Lab ID: 1009543-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.0	5.0	µg/L	1	9/18/2010 02:11
1,2-Dibromoethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
1,2-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
1,2-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
1,2-Dichloropropane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
1,3-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
1,4-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
2-Butanone	U		0.80	10	µg/L	1	9/18/2010 02:11
2-Hexanone	U		1.0	10	µg/L	1	9/18/2010 02:11
4-Methyl-2-pentanone	U		1.0	10	µg/L	1	9/18/2010 02:11
Acetone	U		1.0	10	µg/L	1	9/18/2010 02:11
Benzene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Bromodichloromethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Bromoform	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Bromomethane	U		0.90	5.0	µg/L	1	9/18/2010 02:11
Carbon disulfide	U		1.0	10	µg/L	1	9/18/2010 02:11
Carbon tetrachloride	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Chlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Chloroethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Chloroform	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Chloromethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
cis-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
cis-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Cyclohexane	U		0.60	5.0	µg/L	1	9/18/2010 02:11
Dibromochloromethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Dichlorodifluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Dichloromethane	U		0.50	10	µg/L	1	9/18/2010 02:11
Ethylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Isopropylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
m,p-Xylene	U		1.0	10	µg/L	1	9/18/2010 02:11
Methyl acetate	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Methyl tert-butyl ether	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Methylcyclohexane	U		0.80	5.0	µg/L	1	9/18/2010 02:11
o-Xylene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Styrene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Tetrachloroethene	U		0.60	5.0	µg/L	1	9/18/2010 02:11
Toluene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
trans-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
trans-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Trichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 02:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWA-09142010
Collection Date: 9/14/2010 03:12 PM

Work Order: 1009543
Lab ID: 1009543-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 02:11
Vinyl chloride	U		0.50	2.0	µg/L	1	9/18/2010 02:11
Xylenes, Total	U		1.0	15	µg/L	1	9/18/2010 02:11
Surr: 1,2-Dichloroethane-d4	*122*			*70-125*	*%REC*	1	9/18/2010 02:11
Surr: 4-Bromofluorobenzene	*91.4*			*72-125*	*%REC*	1	9/18/2010 02:11
Surr: Dibromofluoromethane	*108*			*71-125*	*%REC*	1	9/18/2010 02:11
Surr: Toluene-d8	*97.0*			*75-125*	*%REC*	1	9/18/2010 02:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWB-09142010
Collection Date: 9/14/2010 02:47 PM

Work Order: 1009543
Lab ID: 1009543-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			Method: **SW8015M**		Prep: SW3510C / 9/18/10		Analyst: **RPM**
TPH (Oil Range)	**0.022**	J	**0.020**	**0.10**	**mg/L**	1	9/18/2010 14:11
TPH (Diesel Range)	U		0.020	0.050	mg/L	1	9/18/2010 14:11
Surr: 2-Fluorobiphenyl	*87.2*			*70-130*	*%REC*	1	9/18/2010 14:11
GASOLINE RANGE ORGANICS			Method: **SW8015**				Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.0500	mg/L	1	9/20/2010 13:15
Surr: 4-Bromofluorobenzene	*104*			*70-130*	*%REC*	1	9/20/2010 13:15
MERCURY			Method: **SW7470**		Prep: SW7470 / 9/17/10		Analyst: **ALR**
Mercury	U		0.000042	0.000200	mg/L	1	9/18/2010 17:22
METALS			Method: **SW6020**		Prep: SW3010A / 9/17/10		Analyst: **ALR**
Aluminum	U		0.074	0.200	mg/L	20	9/18/2010 17:17
Antimony	U		0.010	0.100	mg/L	20	9/18/2010 17:17
Arsenic	U		0.018	0.100	mg/L	20	9/18/2010 17:17
Barium	**0.0209**	J	**0.014**	**0.100**	**mg/L**	20	9/18/2010 17:17
Beryllium	U		0.0060	0.0400	mg/L	20	9/18/2010 17:17
Cadmium	U		0.012	0.0400	mg/L	20	9/18/2010 17:17
Calcium	**380**		**1.0**	**10.0**	**mg/L**	20	9/18/2010 17:17
Chromium	**0.0176**	J	**0.012**	**0.100**	**mg/L**	20	9/18/2010 17:17
Cobalt	U		0.010	0.100	mg/L	20	9/18/2010 17:17
Copper	U		0.010	0.100	mg/L	20	9/18/2010 17:17
Iron	U		0.72	4.00	mg/L	20	9/18/2010 17:17
Lead	**0.00809**	J	**0.0080**	**0.100**	**mg/L**	20	9/18/2010 17:17
Magnesium	**1,010**		**3.9**	**20.0**	**mg/L**	100	9/18/2010 16:08
Manganese	U		0.016	0.100	mg/L	20	9/18/2010 17:17
Nickel	**0.0211**	J	**0.0070**	**0.0250**	**mg/L**	5	9/18/2010 18:43
Potassium	**324**		**2.0**	**4.00**	**mg/L**	20	9/18/2010 17:17
Selenium	U		0.050	0.100	mg/L	20	9/18/2010 17:17
Silver	U		0.014	0.100	mg/L	20	9/18/2010 17:17
Sodium	**8,500**		**10**	**20.0**	**mg/L**	100	9/18/2010 16:08
Thallium	U		0.016	0.0400	mg/L	20	9/18/2010 17:17
Vanadium	U		0.014	0.100	mg/L	20	9/18/2010 17:17
Zinc	U		0.050	0.100	mg/L	20	9/18/2010 17:17
PARENT/ALKYL PAH			Method: **SW8270SIM**		Prep: SW3520A / 9/18/10		Analyst: **HV**
1-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
2-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
2-Methylnaphthalene-d10	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Acenaphthene	U		0.050	0.10	ug/L	1	9/19/2010 22:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWB-09142010
Collection Date: 9/14/2010 02:47 PM

Work Order: 1009543
Lab ID: 1009543-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Anthracene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Benz(a)anthracene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Benzo(a)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Benzo(b)fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Benzo(e)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Benzo(g,h,i)perylene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Benzo(k)fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C1-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C1-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C1-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C1-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C2-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C2-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C2-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C2-naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C2-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C3-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C3-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C3-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C3-naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C3-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C4-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C4-Naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
C4-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Chrysene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Dibenz(a,h)anthracene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Fluorene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Indeno(1,2,3-cd)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Naphthalene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Perylene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Phenanthrene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Pyrene	U		0.050	0.10	ug/L	1	9/19/2010 22:13
Surr: Acenaphthylene-d8	*67.6*			*41-107*	*%REC*	1	9/19/2010 22:13
Surr: Anthracene-d10	*74.9*			*44-110*	*%REC*	1	9/19/2010 22:13
Surr: Benzo(a)pyrene-d12	*67.5*			*32-121*	*%REC*	1	9/19/2010 22:13
Surr: Pyrene-d10	*71.2*			*52-119*	*%REC*	1	9/19/2010 22:13
LOW-LEVEL SEMIVOLATILES			Method: **SW8270**		Prep: SW3510 / 9/18/10		Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWB-09142010
Collection Date: 9/14/2010 02:47 PM

Work Order: 1009543
Lab ID: 1009543-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		0.10	0.20	µg/L	1	9/18/2010 19:52
2,4,5-Trichlorophenol	U		0.090	0.20	µg/L	1	9/18/2010 19:52
2,4,6-Trichlorophenol	U		0.070	0.20	µg/L	1	9/18/2010 19:52
2,4-Dichlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 19:52
2,4-Dimethylphenol	U		0.080	0.20	µg/L	1	9/18/2010 19:52
2,4-Dinitrophenol	U		0.080	1.0	µg/L	1	9/18/2010 19:52
2,4-Dinitrotoluene	U		0.090	0.20	µg/L	1	9/18/2010 19:52
2,6-Dinitrotoluene	U		0.070	0.20	µg/L	1	9/18/2010 19:52
2-Chloronaphthalene	U		0.10	0.20	µg/L	1	9/18/2010 19:52
2-Chlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 19:52
2-Methylnaphthalene	U		0.070	0.20	µg/L	1	9/18/2010 19:52
2-Methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 19:52
2-Nitroaniline	U		0.10	0.20	µg/L	1	9/18/2010 19:52
2-Nitrophenol	U		0.070	0.20	µg/L	1	9/18/2010 19:52
3&4-Methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 19:52
3,3'-Dichlorobenzidine	U		0.070	0.20	µg/L	1	9/18/2010 19:52
3-Nitroaniline	U		0.080	0.20	µg/L	1	9/18/2010 19:52
4,6-Dinitro-2-methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 19:52
4-Bromophenyl phenyl ether	U		0.090	0.20	µg/L	1	9/18/2010 19:52
4-Chloro-3-methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 19:52
4-Chloroaniline	U		0.070	0.20	µg/L	1	9/18/2010 19:52
4-Chlorophenyl phenyl ether	U		0.080	0.20	µg/L	1	9/18/2010 19:52
4-Nitroaniline	U		0.070	0.20	µg/L	1	9/18/2010 19:52
4-Nitrophenol	U		0.070	1.0	µg/L	1	9/18/2010 19:52
Acenaphthene	U		0.090	0.20	µg/L	1	9/18/2010 19:52
Acenaphthylene	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Acetophenone	U		0.10	0.20	µg/L	1	9/18/2010 19:52
Anthracene	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Atrazine	U		0.080	0.20	µg/L	1	9/18/2010 19:52
Benz(a)anthracene	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Benzaldehyde	U		0.12	0.20	µg/L	1	9/18/2010 19:52
Benzo(a)pyrene	U		0.080	0.20	µg/L	1	9/18/2010 19:52
Benzo(b)fluoranthene	U		0.090	0.20	µg/L	1	9/18/2010 19:52
Benzo(g,h,i)perylene	U		0.090	0.20	µg/L	1	9/18/2010 19:52
Benzo(k)fluoranthene	U		0.10	0.20	µg/L	1	9/18/2010 19:52
Bis(2-chloroethoxy)methane	U		0.090	0.20	µg/L	1	9/18/2010 19:52
Bis(2-chloroethyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Bis(2-chloroisopropyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Bis(2-ethylhexyl)phthalate	**0.24**		**0.20**	**0.20**	**µg/L**	1	9/18/2010 19:52
Butyl benzyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 19:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWB-09142010
Collection Date: 9/14/2010 02:47 PM

Work Order: 1009543
Lab ID: 1009543-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		0.080	0.20	µg/L	1	9/18/2010 19:52
Carbazole	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Chrysene	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Di-n-butyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Di-n-octyl phthalate	U		0.11	0.20	µg/L	1	9/18/2010 19:52
Dibenz(a,h)anthracene	U		0.080	0.20	µg/L	1	9/18/2010 19:52
Dibenzofuran	U		0.080	0.20	µg/L	1	9/18/2010 19:52
Diethyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Dimethyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 19:52
Fluoranthene	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Fluorene	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Hexachlorobenzene	U		0.10	0.20	µg/L	1	9/18/2010 19:52
Hexachlorobutadiene	U		0.15	0.20	µg/L	1	9/18/2010 19:52
Hexachlorocyclopentadiene	U		0.080	0.20	µg/L	1	9/18/2010 19:52
Hexachloroethane	U		0.17	0.20	µg/L	1	9/18/2010 19:52
Indeno(1,2,3-cd)pyrene	U		0.10	0.20	µg/L	1	9/18/2010 19:52
Isophorone	U		0.070	0.20	µg/L	1	9/18/2010 19:52
N-Nitrosodi-n-propylamine	U		0.10	0.20	µg/L	1	9/18/2010 19:52
N-Nitrosodiphenylamine	U		0.090	0.20	µg/L	1	9/18/2010 19:52
Naphthalene	U		0.10	0.20	µg/L	1	9/18/2010 19:52
Nitrobenzene	U		0.090	0.20	µg/L	1	9/18/2010 19:52
Pentachlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 19:52
Phenanthrene	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Phenol	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Pyrene	U		0.070	0.20	µg/L	1	9/18/2010 19:52
Surr: 2,4,6-Tribromophenol	*37.5*			*34-129*	*%REC*	1	9/18/2010 19:52
Surr: 2-Fluorobiphenyl	*46.6*			*40-125*	*%REC*	1	9/18/2010 19:52
Surr: 2-Fluorophenol	*46.8*			*20-120*	*%REC*	1	9/18/2010 19:52
Surr: 4-Terphenyl-d14	*45.2*			*40-135*	*%REC*	1	9/18/2010 19:52
Surr: Nitrobenzene-d5	*48.3*			*41-120*	*%REC*	1	9/18/2010 19:52
Surr: Phenol-d6	*46.8*			*20-120*	*%REC*	1	9/18/2010 19:52
TCL VOLATILES		Method: **SW8260**					Analyst: **PC**
1,1,1-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/L	1	9/18/2010 17:55
1,1,2-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
1,1-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
1,1-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
1,2,4-Trichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWB-09142010
Collection Date: 9/14/2010 02:47 PM

Work Order: 1009543
Lab ID: 1009543-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.0	5.0	µg/L	1	9/18/2010 17:55
1,2-Dibromoethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
1,2-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
1,2-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
1,2-Dichloropropane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
1,3-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
1,4-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
2-Butanone	U		0.80	10	µg/L	1	9/18/2010 17:55
2-Hexanone	U		1.0	10	µg/L	1	9/18/2010 17:55
4-Methyl-2-pentanone	U		1.0	10	µg/L	1	9/18/2010 17:55
Acetone	U		1.0	10	µg/L	1	9/18/2010 17:55
Benzene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Bromodichloromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Bromoform	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Bromomethane	U		0.90	5.0	µg/L	1	9/18/2010 17:55
Carbon disulfide	U		1.0	10	µg/L	1	9/18/2010 17:55
Carbon tetrachloride	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Chlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Chloroethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Chloroform	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Chloromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
cis-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
cis-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Cyclohexane	U		0.60	5.0	µg/L	1	9/18/2010 17:55
Dibromochloromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Dichlorodifluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Dichloromethane	U		0.50	10	µg/L	1	9/18/2010 17:55
Ethylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Isopropylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
m,p-Xylene	U		1.0	10	µg/L	1	9/18/2010 17:55
Methyl acetate	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Methyl tert-butyl ether	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Methylcyclohexane	U		0.80	5.0	µg/L	1	9/18/2010 17:55
o-Xylene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Styrene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Tetrachloroethene	U		0.60	5.0	µg/L	1	9/18/2010 17:55
Toluene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
trans-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
trans-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Trichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 17:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-84-C-SWB-09142010
Collection Date: 9/14/2010 02:47 PM

Work Order: 1009543
Lab ID: 1009543-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 17:55
Vinyl chloride	U		0.50	2.0	µg/L	1	9/18/2010 17:55
Xylenes, Total	U		1.0	15	µg/L	1	9/18/2010 17:55
Surr: 1,2-Dichloroethane-d4	*118*			*70-125*	*%REC*	1	9/18/2010 17:55
Surr: 4-Bromofluorobenzene	*91.3*			*72-125*	*%REC*	1	9/18/2010 17:55
Surr: Dibromofluoromethane	*107*			*71-125*	*%REC*	1	9/18/2010 17:55
Surr: Toluene-d8	*98.0*			*75-125*	*%REC*	1	9/18/2010 17:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SD-09142010
Collection Date: 9/14/2010 02:50 PM

Work Order: 1009543
Lab ID: 1009543-12
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO		Method: **SW8015M**			Prep: SW3541 / 9/17/10		Analyst: **RPM**
TPH (Oil Range)	**2.0**	J	**1.3**	**8.5**	**mg/Kg-dry**	1	9/19/2010 23:32
TPH (Diesel Range)	U		1.3	4.3	mg/Kg-dry	1	9/19/2010 23:32
Surr: 2-Fluorobiphenyl	*70.8*			*70-130*	*%REC*	1	9/19/2010 23:32
GASOLINE RANGE ORGANICS		Method: **SW8015**					Analyst: **KKP**
Gasoline Range Organics	U		0.061	0.15	mg/Kg-dry	1.211	9/18/2010 02:23
Surr: 4-Bromofluorobenzene	*72.8*			*70-130*	*%REC*	1.211	9/18/2010 02:23
MERCURY		Method: **SW7471A**			Prep: SW7471A / 9/18/10		Analyst: **ALR**
Mercury	**41.6**		**0.54**	**8.99**	**µg/Kg-dry**	1	9/18/2010 18:01
METALS		Method: **SW6020**			Prep: SW3050A / 9/17/10		Analyst: **ALR**
Aluminum	**9,990**		**47**	**236**	**mg/Kg-dry**	100	9/18/2010 21:01
Antimony	U		0.59	1.18	mg/Kg-dry	1	9/19/2010 01:10
Arsenic	**7.21**		**0.14**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
Barium	**39.8**		**0.19**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
Beryllium	**0.763**	J	**0.12**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
Cadmium	U		0.095	1.18	mg/Kg-dry	1	9/19/2010 01:10
Calcium	**3,330**		**24**	**118**	**mg/Kg-dry**	1	9/19/2010 01:10
Chromium	**16.3**		**0.12**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
Cobalt	**6.75**		**0.071**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
Copper	**8.08**		**0.33**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
Iron	**17,700**		**9.5**	**118**	**mg/Kg-dry**	1	9/19/2010 01:10
Lead	**14.4**		**0.12**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
Magnesium	**6,000**		**7.8**	**118**	**mg/Kg-dry**	1	9/19/2010 01:10
Manganese	**392**		**17**	**118**	**mg/Kg-dry**	100	9/18/2010 21:01
Nickel	**10.6**		**0.14**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
Potassium	**3,070**		**8.5**	**118**	**mg/Kg-dry**	1	9/19/2010 01:10
Selenium	**1.60**		**0.59**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
Silver	U		0.095	1.18	mg/Kg-dry	1	9/19/2010 01:10
Sodium	**13,600**		**9.5**	**118**	**mg/Kg-dry**	1	9/19/2010 01:10
Thallium	U		0.17	1.18	mg/Kg-dry	1	9/19/2010 01:10
Vanadium	**24.0**		**0.17**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
Zinc	**49.2**		**0.59**	**1.18**	**mg/Kg-dry**	1	9/19/2010 01:10
PARENT/ALKYL PAHS		Method: **SW8270SIM**			Prep: SW3541 / 9/17/10		Analyst: **HV**
1-Methylnaphthalene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
2-Methylnaphthalene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
2-Methylnaphthalene-d10	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Acenaphthene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SD-09142010
Collection Date: 9/14/2010 02:50 PM

Work Order: 1009543
Lab ID: 1009543-12
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Anthracene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Benz(a)anthracene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Benzo(a)pyrene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Benzo(b)fluoranthene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Benzo(e)pyrene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Benzo(g,h,i)perylene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Benzo(k)fluoranthene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C1-Chrysenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C1-Fluoranthenes/Pyrenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C1-Fluorenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C1-Phenanthrenes/anthracenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C2-Chrysenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C2-Fluoranthenes/Pyrenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C2-Fluorenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C2-naphthalenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C2-Phenanthrenes/anthracenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C3-Chrysenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C3-Fluoranthenes/Pyrenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C3-Fluorenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C3-naphthalenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C3-Phenanthrenes/anthracenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C4-Chrysenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C4-Naphthalenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
C4-Phenanthrenes/anthracenes	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Chrysene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Dibenz(a,h)anthracene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Fluoranthene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Fluorene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Indeno(1,2,3-cd)pyrene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Naphthalene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Perylene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Phenanthrene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Pyrene	U		5.0	8.3	ug/Kg-dry	1	9/18/2010 01:17
Surr: Acenaphthylene-d8	*73.6*			*20-97*	*%REC*	1	9/18/2010 01:17
Surr: Anthracene-d10	*70.9*			*22-98*	*%REC*	1	9/18/2010 01:17
Surr: Benzo(a)pyrene-d12	*89.1*			*43-111*	*%REC*	1	9/18/2010 01:17
Surr: Pyrene-d10	*85.6*			*51-120*	*%REC*	1	9/18/2010 01:17
LOW-LEVEL SEMIVOLATILES		Method: **SW8270**			Prep: SW3541 / 9/17/10		Analyst: **KMB**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SD-09142010
Collection Date: 9/14/2010 02:50 PM

Work Order: 1009543
Lab ID: 1009543-12
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		7.3	17	µg/Kg-dry	1	9/18/2010 02:11
2,4,5-Trichlorophenol	U		7.0	17	µg/Kg-dry	1	9/18/2010 02:11
2,4,6-Trichlorophenol	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
2,4-Dichlorophenol	U		5.5	17	µg/Kg-dry	1	9/18/2010 02:11
2,4-Dimethylphenol	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
2,4-Dinitrophenol	U		8.3	83	µg/Kg-dry	1	9/18/2010 02:11
2,4-Dinitrotoluene	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
2,6-Dinitrotoluene	U		8.0	17	µg/Kg-dry	1	9/18/2010 02:11
2-Chloronaphthalene	U		10	17	µg/Kg-dry	1	9/18/2010 02:11
2-Chlorophenol	U		8.0	17	µg/Kg-dry	1	9/18/2010 02:11
2-Methylnaphthalene	**20**		**6.8**	**17**	**µg/Kg-dry**	1	9/18/2010 02:11
2-Methylphenol	U		7.3	17	µg/Kg-dry	1	9/18/2010 02:11
2-Nitroaniline	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
2-Nitrophenol	U		12	17	µg/Kg-dry	1	9/18/2010 02:11
3&4-Methylphenol	U		7.0	17	µg/Kg-dry	1	9/18/2010 02:11
3,3'-Dichlorobenzidine	U		7.8	17	µg/Kg-dry	1	9/18/2010 02:11
3-Nitroaniline	U		6.5	17	µg/Kg-dry	1	9/18/2010 02:11
4,6-Dinitro-2-methylphenol	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
4-Bromophenyl phenyl ether	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
4-Chloro-3-methylphenol	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
4-Chloroaniline	U		5.5	17	µg/Kg-dry	1	9/18/2010 02:11
4-Chlorophenyl phenyl ether	U		5.5	17	µg/Kg-dry	1	9/18/2010 02:11
4-Nitroaniline	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
4-Nitrophenol	U		9.5	83	µg/Kg-dry	1	9/18/2010 02:11
Acenaphthene	**24**		**5.5**	**17**	**µg/Kg-dry**	1	9/18/2010 02:11
Acenaphthylene	U		5.5	17	µg/Kg-dry	1	9/18/2010 02:11
Acetophenone	U		6.0	17	µg/Kg-dry	1	9/18/2010 02:11
Anthracene	U		5.5	17	µg/Kg-dry	1	9/18/2010 02:11
Atrazine	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
Benz(a)anthracene	U		7.0	17	µg/Kg-dry	1	9/18/2010 02:11
Benzaldehyde	U		12	17	µg/Kg-dry	1	9/18/2010 02:11
Benzo(a)pyrene	U		5.8	17	µg/Kg-dry	1	9/18/2010 02:11
Benzo(b)fluoranthene	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
Benzo(g,h,i)perylene	U		7.3	17	µg/Kg-dry	1	9/18/2010 02:11
Benzo(k)fluoranthene	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
Bis(2-chloroethoxy)methane	U		6.0	17	µg/Kg-dry	1	9/18/2010 02:11
Bis(2-chloroethyl)ether	U		7.0	17	µg/Kg-dry	1	9/18/2010 02:11
Bis(2-chloroisopropyl)ether	U		6.8	17	µg/Kg-dry	1	9/18/2010 02:11
Bis(2-ethylhexyl)phthalate	**30**		**17**	**17**	**µg/Kg-dry**	1	9/18/2010 02:11
Butyl benzyl phthalate	U		6.3	17	µg/Kg-dry	1	9/18/2010 02:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SD-09142010
Collection Date: 9/14/2010 02:50 PM

Work Order: 1009543
Lab ID: 1009543-12
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		6.0	17	µg/Kg-dry	1	9/18/2010 02:11
Carbazole	U		5.5	17	µg/Kg-dry	1	9/18/2010 02:11
Chrysene	U		7.3	17	µg/Kg-dry	1	9/18/2010 02:11
Di-n-butyl phthalate	U		6.3	17	µg/Kg-dry	1	9/18/2010 02:11
Di-n-octyl phthalate	U		7.3	17	µg/Kg-dry	1	9/18/2010 02:11
Dibenz(a,h)anthracene	U		5.5	17	µg/Kg-dry	1	9/18/2010 02:11
Dibenzofuran	**14**	J	**5.5**	**17**	**µg/Kg-dry**	1	9/18/2010 02:11
Diethyl phthalate	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
Dimethyl phthalate	U		6.0	17	µg/Kg-dry	1	9/18/2010 02:11
Fluoranthene	U		5.5	17	µg/Kg-dry	1	9/18/2010 02:11
Fluorene	**12**	J	**5.5**	**17**	**µg/Kg-dry**	1	9/18/2010 02:11
Hexachlorobenzene	U		6.5	17	µg/Kg-dry	1	9/18/2010 02:11
Hexachlorobutadiene	U		11	17	µg/Kg-dry	1	9/18/2010 02:11
Hexachlorocyclopentadiene	U		9.0	17	µg/Kg-dry	1	9/18/2010 02:11
Hexachloroethane	U		9.8	17	µg/Kg-dry	1	9/18/2010 02:11
Indeno(1,2,3-cd)pyrene	U		8.8	17	µg/Kg-dry	1	9/18/2010 02:11
Isophorone	U		7.5	17	µg/Kg-dry	1	9/18/2010 02:11
N-Nitrosodi-n-propylamine	U		10	17	µg/Kg-dry	1	9/18/2010 02:11
N-Nitrosodiphenylamine	U		5.5	17	µg/Kg-dry	1	9/18/2010 02:11
Naphthalene	**32**		**8.3**	**17**	**µg/Kg-dry**	1	9/18/2010 02:11
Nitrobenzene	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
Pentachlorophenol	U		7.0	17	µg/Kg-dry	1	9/18/2010 02:11
Phenanthrene	**12**	J	**7.5**	**17**	**µg/Kg-dry**	1	9/18/2010 02:11
Phenol	U		8.3	17	µg/Kg-dry	1	9/18/2010 02:11
Pyrene	U		5.5	17	µg/Kg-dry	1	9/18/2010 02:11
Surr: 2,4,6-Tribromophenol	*60.7*			*36-126*	*%REC*	1	9/18/2010 02:11
Surr: 2-Fluorobiphenyl	*62.7*			*43-125*	*%REC*	1	9/18/2010 02:11
Surr: 2-Fluorophenol	*64.9*			*37-125*	*%REC*	1	9/18/2010 02:11
Surr: 4-Terphenyl-d14	*77.1*			*32-125*	*%REC*	1	9/18/2010 02:11
Surr: Nitrobenzene-d5	*67.2*			*37-125*	*%REC*	1	9/18/2010 02:11
Surr: Phenol-d6	*71.4*			*40-125*	*%REC*	1	9/18/2010 02:11
TCL VOLATILES		Method: **SW8260**					Analyst: **WLR**
1,1,1-Trichloroethane	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,1,2,2-Tetrachloroethane	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,1,2-Trichlor-1,2,2-trifluoroethane	U		2.8	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,1,2-Trichloroethane	U		3.7	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,1-Dichloroethane	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,1-Dichloroethene	U		3.7	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,2,4-Trichlorobenzene	U		3.2	23	µg/Kg-dry	1.838	9/18/2010 14:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SD-09142010
Collection Date: 9/14/2010 02:50 PM

Work Order: 1009543
Lab ID: 1009543-12
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		8.8	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,2-Dibromoethane	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,2-Dichlorobenzene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,2-Dichloroethane	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,2-Dichloropropane	U		3.2	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,3-Dichlorobenzene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
1,4-Dichlorobenzene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
2-Butanone	U		8.8	46	µg/Kg-dry	1.838	9/18/2010 14:38
2-Hexanone	U		5.1	46	µg/Kg-dry	1.838	9/18/2010 14:38
4-Methyl-2-pentanone	U		4.6	46	µg/Kg-dry	1.838	9/18/2010 14:38
Acetone	**120**		**23**	**120**	**µg/Kg-dry**	1.838	9/18/2010 14:38
Benzene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Bromodichloromethane	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Bromoform	U		3.7	46	µg/Kg-dry	1.838	9/18/2010 14:38
Bromomethane	U		4.6	46	µg/Kg-dry	1.838	9/18/2010 14:38
Carbon disulfide	U		4.6	46	µg/Kg-dry	1.838	9/18/2010 14:38
Carbon tetrachloride	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Chlorobenzene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Chloroethane	U		4.6	46	µg/Kg-dry	1.838	9/18/2010 14:38
Chloroform	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Chloromethane	U		4.6	46	µg/Kg-dry	1.838	9/18/2010 14:38
cis-1,2-Dichloroethene	U		2.8	23	µg/Kg-dry	1.838	9/18/2010 14:38
cis-1,3-Dichloropropene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Cyclohexane	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Dibromochloromethane	U		2.8	23	µg/Kg-dry	1.838	9/18/2010 14:38
Dichlorodifluoromethane	U		3.7	23	µg/Kg-dry	1.838	9/18/2010 14:38
Dichloromethane	U		6.4	46	µg/Kg-dry	1.838	9/18/2010 14:38
Ethylbenzene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Isopropylbenzene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
m,p-Xylene	U		4.6	46	µg/Kg-dry	1.838	9/18/2010 14:38
Methyl acetate	U		5.5	23	µg/Kg-dry	1.838	9/18/2010 14:38
Methyl tert-butyl ether	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Methylcyclohexane	U		2.8	23	µg/Kg-dry	1.838	9/18/2010 14:38
o-Xylene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Styrene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Tetrachloroethene	U		2.8	23	µg/Kg-dry	1.838	9/18/2010 14:38
Toluene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
trans-1,2-Dichloroethene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
trans-1,3-Dichloropropene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Trichloroethene	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SD-09142010
Collection Date: 9/14/2010 02:50 PM

Work Order: 1009543
Lab ID: 1009543-12
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		2.3	23	µg/Kg-dry	1.838	9/18/2010 14:38
Vinyl chloride	U		4.6	9.2	µg/Kg-dry	1.838	9/18/2010 14:38
Xylenes, Total	U		4.6	69	µg/Kg-dry	1.838	9/18/2010 14:38
Surr: 1,2-Dichloroethane-d4	*113*			*70-128*	*%REC*	1.838	9/18/2010 14:38
Surr: 4-Bromofluorobenzene	*98.9*			*73-126*	*%REC*	1.838	9/18/2010 14:38
Surr: Dibromofluoromethane	*113*			*71-128*	*%REC*	1.838	9/18/2010 14:38
Surr: Toluene-d8	*102*			*73-127*	*%REC*	1.838	9/18/2010 14:38
MISCELLANEOUS ANALYSIS		Method: **NA**					Analyst: **HN**
Miscellaneous Analysis	**See Attached**		**0**		**-dry**	1	9/17/2010
MOISTURE		Method: **E160.3**					Analyst: **JLC**
Percent Moisture	**60.1**		**0.010**	**0.0100**	**wt%**	1	9/17/2010 12:00
AMMONIA AS N		Method: **SM4500 NH3-B-F**			Prep: M4500-NH3 BE / 9/17/10		Analyst: **IAB**
Nitrogen, Ammonia (as N)	**224**		**6.3**	**32.5**	**mg/Kg-dry**	1	9/17/2010 15:00
TOTAL ORGANIC CARBON		Method: **WALKLEY-BLACK**					Analyst: **JLC**
Total Organic Carbon	**0.751**		**0.020**	**0.0200**	**wt%**	1	9/20/2010 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWA-09142010
Collection Date: 9/14/2010 01:45 PM

Work Order: 1009543
Lab ID: 1009543-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO		Method: **SW8015M**			Prep: SW3510C / 9/18/10		Analyst: **RPM**
TPH (Oil Range)	**0.026**	J	**0.020**	**0.10**	**mg/L**	1	9/18/2010 14:30
TPH (Diesel Range)	U		0.020	0.050	mg/L	1	9/18/2010 14:30
Surr: 2-Fluorobiphenyl	*78.5*			*70-130*	*%REC*	1	9/18/2010 14:30
GASOLINE RANGE ORGANICS		Method: **SW8015**					Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.0500	mg/L	1	9/20/2010 12:57
Surr: 4-Bromofluorobenzene	*108*			*70-130*	*%REC*	1	9/20/2010 12:57
MERCURY		Method: **SW7470**			Prep: SW7470 / 9/17/10		Analyst: **ALR**
Mercury	U		0.000042	0.000200	mg/L	1	9/18/2010 17:24
METALS		Method: **SW6020**			Prep: SW3010A / 9/17/10		Analyst: **ALR**
Aluminum	**0.198**	J	**0.074**	**0.200**	**mg/L**	20	9/18/2010 17:23
Antimony	U		0.010	0.100	mg/L	20	9/18/2010 17:23
Arsenic	U		0.018	0.100	mg/L	20	9/18/2010 17:23
Barium	**0.0290**	J	**0.014**	**0.100**	**mg/L**	20	9/18/2010 17:23
Beryllium	U		0.0060	0.0400	mg/L	20	9/18/2010 17:23
Cadmium	U		0.012	0.0400	mg/L	20	9/18/2010 17:23
Calcium	**320**		**1.0**	**10.0**	**mg/L**	20	9/18/2010 17:23
Chromium	U		0.012	0.100	mg/L	20	9/18/2010 17:23
Cobalt	U		0.010	0.100	mg/L	20	9/18/2010 17:23
Copper	U		0.010	0.100	mg/L	20	9/18/2010 17:23
Iron	U		0.72	4.00	mg/L	20	9/18/2010 17:23
Lead	**0.00820**	J	**0.0080**	**0.100**	**mg/L**	20	9/18/2010 17:23
Magnesium	**874**		**3.9**	**20.0**	**mg/L**	100	9/18/2010 16:13
Manganese	U		0.016	0.100	mg/L	20	9/18/2010 17:23
Nickel	**0.0120**	J	**0.0070**	**0.0250**	**mg/L**	5	9/18/2010 18:53
Potassium	**277**		**2.0**	**4.00**	**mg/L**	20	9/18/2010 17:23
Selenium	U		0.050	0.100	mg/L	20	9/18/2010 17:23
Silver	U		0.014	0.100	mg/L	20	9/18/2010 17:23
Sodium	**7,260**		**10**	**20.0**	**mg/L**	100	9/18/2010 16:13
Thallium	U		0.016	0.0400	mg/L	20	9/18/2010 17:23
Vanadium	U		0.014	0.100	mg/L	20	9/18/2010 17:23
Zinc	U		0.050	0.100	mg/L	20	9/18/2010 17:23
PARENT/ALKYL PAH		Method: **SW8270SIM**			Prep: SW3520A / 9/18/10		Analyst: **HV**
1-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
2-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
2-Methylnaphthalene-d10	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Acenaphthene	U		0.050	0.10	ug/L	1	9/19/2010 22:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWA-09142010
Collection Date: 9/14/2010 01:45 PM

Work Order: 1009543
Lab ID: 1009543-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Anthracene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Benz(a)anthracene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Benzo(a)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Benzo(b)fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Benzo(e)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Benzo(g,h,i)perylene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Benzo(k)fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C1-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C1-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C1-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C1-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C2-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C2-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C2-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C2-naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C2-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C3-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C3-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C3-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C3-naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C3-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C4-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C4-Naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
C4-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Chrysene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Dibenz(a,h)anthracene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Fluorene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Indeno(1,2,3-cd)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Naphthalene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Perylene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Phenanthrene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Pyrene	U		0.050	0.10	ug/L	1	9/19/2010 22:37
Surr: Acenaphthylene-d8	*69.8*			*41-107*	*%REC*	1	9/19/2010 22:37
Surr: Anthracene-d10	*77.0*			*44-110*	*%REC*	1	9/19/2010 22:37
Surr: Benzo(a)pyrene-d12	*68.9*			*32-121*	*%REC*	1	9/19/2010 22:37
Surr: Pyrene-d10	*71.2*			*52-119*	*%REC*	1	9/19/2010 22:37

LOW-LEVEL SEMIVOLATILES Method: **SW8270** Prep: SW3510 / 9/18/10 Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWA-09142010
Collection Date: 9/14/2010 01:45 PM

Work Order: 1009543
Lab ID: 1009543-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		0.10	0.20	µg/L	1	9/18/2010 20:11
2,4,5-Trichlorophenol	U		0.090	0.20	µg/L	1	9/18/2010 20:11
2,4,6-Trichlorophenol	U		0.070	0.20	µg/L	1	9/18/2010 20:11
2,4-Dichlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 20:11
2,4-Dimethylphenol	U		0.080	0.20	µg/L	1	9/18/2010 20:11
2,4-Dinitrophenol	U		0.080	1.0	µg/L	1	9/18/2010 20:11
2,4-Dinitrotoluene	U		0.090	0.20	µg/L	1	9/18/2010 20:11
2,6-Dinitrotoluene	U		0.070	0.20	µg/L	1	9/18/2010 20:11
2-Chloronaphthalene	U		0.10	0.20	µg/L	1	9/18/2010 20:11
2-Chlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 20:11
2-Methylnaphthalene	U		0.070	0.20	µg/L	1	9/18/2010 20:11
2-Methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 20:11
2-Nitroaniline	U		0.10	0.20	µg/L	1	9/18/2010 20:11
2-Nitrophenol	U		0.070	0.20	µg/L	1	9/18/2010 20:11
3&4-Methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 20:11
3,3'-Dichlorobenzidine	U		0.070	0.20	µg/L	1	9/18/2010 20:11
3-Nitroaniline	U		0.080	0.20	µg/L	1	9/18/2010 20:11
4,6-Dinitro-2-methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 20:11
4-Bromophenyl phenyl ether	U		0.090	0.20	µg/L	1	9/18/2010 20:11
4-Chloro-3-methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 20:11
4-Chloroaniline	U		0.070	0.20	µg/L	1	9/18/2010 20:11
4-Chlorophenyl phenyl ether	U		0.080	0.20	µg/L	1	9/18/2010 20:11
4-Nitroaniline	U		0.070	0.20	µg/L	1	9/18/2010 20:11
4-Nitrophenol	U		0.070	1.0	µg/L	1	9/18/2010 20:11
Acenaphthene	U		0.090	0.20	µg/L	1	9/18/2010 20:11
Acenaphthylene	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Acetophenone	U		0.10	0.20	µg/L	1	9/18/2010 20:11
Anthracene	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Atrazine	U		0.080	0.20	µg/L	1	9/18/2010 20:11
Benz(a)anthracene	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Benzaldehyde	U		0.12	0.20	µg/L	1	9/18/2010 20:11
Benzo(a)pyrene	U		0.080	0.20	µg/L	1	9/18/2010 20:11
Benzo(b)fluoranthene	U		0.090	0.20	µg/L	1	9/18/2010 20:11
Benzo(g,h,i)perylene	U		0.090	0.20	µg/L	1	9/18/2010 20:11
Benzo(k)fluoranthene	U		0.10	0.20	µg/L	1	9/18/2010 20:11
Bis(2-chloroethoxy)methane	U		0.090	0.20	µg/L	1	9/18/2010 20:11
Bis(2-chloroethyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Bis(2-chloroisopropyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Bis(2-ethylhexyl)phthalate	**0.53**		**0.20**	**0.20**	**µg/L**	1	9/18/2010 20:11
Butyl benzyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 20:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWA-09142010
Collection Date: 9/14/2010 01:45 PM

Work Order: 1009543
Lab ID: 1009543-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		0.080	0.20	µg/L	1	9/18/2010 20:11
Carbazole	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Chrysene	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Di-n-butyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Di-n-octyl phthalate	U		0.11	0.20	µg/L	1	9/18/2010 20:11
Dibenz(a,h)anthracene	U		0.080	0.20	µg/L	1	9/18/2010 20:11
Dibenzofuran	U		0.080	0.20	µg/L	1	9/18/2010 20:11
Diethyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Dimethyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 20:11
Fluoranthene	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Fluorene	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Hexachlorobenzene	U		0.10	0.20	µg/L	1	9/18/2010 20:11
Hexachlorobutadiene	U		0.15	0.20	µg/L	1	9/18/2010 20:11
Hexachlorocyclopentadiene	U		0.080	0.20	µg/L	1	9/18/2010 20:11
Hexachloroethane	U		0.17	0.20	µg/L	1	9/18/2010 20:11
Indeno(1,2,3-cd)pyrene	U		0.10	0.20	µg/L	1	9/18/2010 20:11
Isophorone	U		0.070	0.20	µg/L	1	9/18/2010 20:11
N-Nitrosodi-n-propylamine	U		0.10	0.20	µg/L	1	9/18/2010 20:11
N-Nitrosodiphenylamine	U		0.090	0.20	µg/L	1	9/18/2010 20:11
Naphthalene	U		0.10	0.20	µg/L	1	9/18/2010 20:11
Nitrobenzene	U		0.090	0.20	µg/L	1	9/18/2010 20:11
Pentachlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 20:11
Phenanthrene	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Phenol	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Pyrene	U		0.070	0.20	µg/L	1	9/18/2010 20:11
Surr: 2,4,6-Tribromophenol	*36.1*			*34-129*	*%REC*	1	9/18/2010 20:11
Surr: 2-Fluorobiphenyl	*45.9*			*40-125*	*%REC*	1	9/18/2010 20:11
Surr: 2-Fluorophenol	*45.8*			*20-120*	*%REC*	1	9/18/2010 20:11
Surr: 4-Terphenyl-d14	*40.0*			*40-135*	*%REC*	1	9/18/2010 20:11
Surr: Nitrobenzene-d5	*48.1*			*41-120*	*%REC*	1	9/18/2010 20:11
Surr: Phenol-d6	*45.1*			*20-120*	*%REC*	1	9/18/2010 20:11
TCL VOLATILES		Method: **SW8260**					Analyst: **PC**
1,1,1-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/L	1	9/18/2010 19:31
1,1,2-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
1,1-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
1,1-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
1,2,4-Trichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWA-09142010
Collection Date: 9/14/2010 01:45 PM

Work Order: 1009543
Lab ID: 1009543-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.0	5.0	µg/L	1	9/18/2010 19:31
1,2-Dibromoethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
1,2-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
1,2-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
1,2-Dichloropropane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
1,3-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
1,4-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
2-Butanone	U		0.80	10	µg/L	1	9/18/2010 19:31
2-Hexanone	U		1.0	10	µg/L	1	9/18/2010 19:31
4-Methyl-2-pentanone	U		1.0	10	µg/L	1	9/18/2010 19:31
Acetone	U		1.0	10	µg/L	1	9/18/2010 19:31
Benzene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Bromodichloromethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Bromoform	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Bromomethane	U		0.90	5.0	µg/L	1	9/18/2010 19:31
Carbon disulfide	U		1.0	10	µg/L	1	9/18/2010 19:31
Carbon tetrachloride	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Chlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Chloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Chloroform	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Chloromethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
cis-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
cis-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Cyclohexane	U		0.60	5.0	µg/L	1	9/18/2010 19:31
Dibromochloromethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Dichlorodifluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Dichloromethane	U		0.50	10	µg/L	1	9/18/2010 19:31
Ethylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Isopropylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
m,p-Xylene	U		1.0	10	µg/L	1	9/18/2010 19:31
Methyl acetate	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Methyl tert-butyl ether	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Methylcyclohexane	U		0.80	5.0	µg/L	1	9/18/2010 19:31
o-Xylene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Styrene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Tetrachloroethene	U		0.60	5.0	µg/L	1	9/18/2010 19:31
Toluene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
trans-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
trans-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Trichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 19:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWA-09142010
Collection Date: 9/14/2010 01:45 PM

Work Order: 1009543
Lab ID: 1009543-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 19:31
Vinyl chloride	U		0.50	2.0	µg/L	1	9/18/2010 19:31
Xylenes, Total	U		1.0	15	µg/L	1	9/18/2010 19:31
Surr: 1,2-Dichloroethane-d4	*90.3*			*70-125*	*%REC*	1	9/18/2010 19:31
Surr: 4-Bromofluorobenzene	*92.0*			*72-125*	*%REC*	1	9/18/2010 19:31
Surr: Dibromofluoromethane	*100*			*71-125*	*%REC*	1	9/18/2010 19:31
Surr: Toluene-d8	*98.7*			*75-125*	*%REC*	1	9/18/2010 19:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWB-09142010
Collection Date: 9/14/2010 02:30 PM

Work Order: 1009543
Lab ID: 1009543-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			Method: **SW8015M**		Prep: SW3510C / 9/18/10		Analyst: **RPM**
TPH (Oil Range)	**0.021**	J	**0.020**	**0.10**	**mg/L**	1	9/18/2010 14:50
TPH (Diesel Range)	U		0.020	0.050	mg/L	1	9/18/2010 14:50
Surr: 2-Fluorobiphenyl	*74.0*			*70-130*	*%REC*	1	9/18/2010 14:50
GASOLINE RANGE ORGANICS			Method: **SW8015**				Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.0500	mg/L	1	9/20/2010 12:39
Surr: 4-Bromofluorobenzene	*107*			*70-130*	*%REC*	1	9/20/2010 12:39
MERCURY			Method: **SW7470**		Prep: SW7470 / 9/17/10		Analyst: **ALR**
Mercury	U		0.000042	0.000200	mg/L	1	9/18/2010 17:26
METALS			Method: **SW6020**		Prep: SW3010A / 9/17/10		Analyst: **ALR**
Aluminum	**0.249**		**0.074**	**0.200**	**mg/L**	20	9/18/2010 17:28
Antimony	U		0.010	0.100	mg/L	20	9/18/2010 17:28
Arsenic	U		0.018	0.100	mg/L	20	9/18/2010 17:28
Barium	**0.0288**	J	**0.014**	**0.100**	**mg/L**	20	9/18/2010 17:28
Beryllium	U		0.0060	0.0400	mg/L	20	9/18/2010 17:28
Cadmium	U		0.012	0.0400	mg/L	20	9/18/2010 17:28
Calcium	**333**		**1.0**	**10.0**	**mg/L**	20	9/18/2010 17:28
Chromium	U		0.012	0.100	mg/L	20	9/18/2010 17:28
Cobalt	U		0.010	0.100	mg/L	20	9/18/2010 17:28
Copper	U		0.010	0.100	mg/L	20	9/18/2010 17:28
Iron	U		0.72	4.00	mg/L	20	9/18/2010 17:28
Lead	**0.0101**	J	**0.0080**	**0.100**	**mg/L**	20	9/18/2010 17:28
Magnesium	**857**		**3.9**	**20.0**	**mg/L**	100	9/18/2010 16:18
Manganese	U		0.016	0.100	mg/L	20	9/18/2010 17:28
Nickel	**0.0130**	J	**0.0070**	**0.0250**	**mg/L**	5	9/18/2010 18:59
Potassium	**291**		**2.0**	**4.00**	**mg/L**	20	9/18/2010 17:28
Selenium	U		0.050	0.100	mg/L	20	9/18/2010 17:28
Silver	U		0.014	0.100	mg/L	20	9/18/2010 17:28
Sodium	**7,190**		**10**	**20.0**	**mg/L**	100	9/18/2010 16:18
Thallium	U		0.016	0.0400	mg/L	20	9/18/2010 17:28
Vanadium	U		0.014	0.100	mg/L	20	9/18/2010 17:28
Zinc	U		0.050	0.100	mg/L	20	9/18/2010 17:28
PARENT/ALKYL PAH			Method: **SW8270SIM**		Prep: SW3520A / 9/18/10		Analyst: **HV**
1-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
2-Methylnaphthalene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
2-Methylnaphthalene-d10	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Acenaphthene	U		0.050	0.10	ug/L	1	9/19/2010 23:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWB-09142010
Collection Date: 9/14/2010 02:30 PM

Work Order: 1009543
Lab ID: 1009543-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Anthracene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Benz(a)anthracene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Benzo(a)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Benzo(b)fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Benzo(e)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Benzo(g,h,i)perylene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Benzo(k)fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C1-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C1-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C1-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C1-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C2-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C2-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C2-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C2-naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C2-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C3-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C3-Fluoranthenes/Pyrenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C3-Fluorenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C3-naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C3-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C4-Chrysenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C4-Naphthalenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
C4-Phenanthrenes/anthracenes	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Chrysene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Dibenz(a,h)anthracene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Fluoranthene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Fluorene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Indeno(1,2,3-cd)pyrene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Naphthalene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Perylene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Phenanthrene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Pyrene	U		0.050	0.10	ug/L	1	9/19/2010 23:02
Surr: Acenaphthylene-d8	*75.1*			*41-107*	*%REC*	1	9/19/2010 23:02
Surr: Anthracene-d10	*74.3*			*44-110*	*%REC*	1	9/19/2010 23:02
Surr: Benzo(a)pyrene-d12	*73.0*			*32-121*	*%REC*	1	9/19/2010 23:02
Surr: Pyrene-d10	*76.7*			*52-119*	*%REC*	1	9/19/2010 23:02

LOW-LEVEL SEMIVOLATILES Method: **SW8270** Prep: SW3510 / 9/18/10 Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWB-09142010
Collection Date: 9/14/2010 02:30 PM

Work Order: 1009543
Lab ID: 1009543-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1'-Biphenyl	U		0.10	0.20	µg/L	1	9/18/2010 20:31
2,4,5-Trichlorophenol	U		0.090	0.20	µg/L	1	9/18/2010 20:31
2,4,6-Trichlorophenol	U		0.070	0.20	µg/L	1	9/18/2010 20:31
2,4-Dichlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 20:31
2,4-Dimethylphenol	U		0.080	0.20	µg/L	1	9/18/2010 20:31
2,4-Dinitrophenol	U		0.080	1.0	µg/L	1	9/18/2010 20:31
2,4-Dinitrotoluene	U		0.090	0.20	µg/L	1	9/18/2010 20:31
2,6-Dinitrotoluene	U		0.070	0.20	µg/L	1	9/18/2010 20:31
2-Chloronaphthalene	U		0.10	0.20	µg/L	1	9/18/2010 20:31
2-Chlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 20:31
2-Methylnaphthalene	U		0.070	0.20	µg/L	1	9/18/2010 20:31
2-Methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 20:31
2-Nitroaniline	U		0.10	0.20	µg/L	1	9/18/2010 20:31
2-Nitrophenol	U		0.070	0.20	µg/L	1	9/18/2010 20:31
3&4-Methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 20:31
3,3'-Dichlorobenzidine	U		0.070	0.20	µg/L	1	9/18/2010 20:31
3-Nitroaniline	U		0.080	0.20	µg/L	1	9/18/2010 20:31
4,6-Dinitro-2-methylphenol	U		0.080	0.20	µg/L	1	9/18/2010 20:31
4-Bromophenyl phenyl ether	U		0.090	0.20	µg/L	1	9/18/2010 20:31
4-Chloro-3-methylphenol	U		0.10	0.20	µg/L	1	9/18/2010 20:31
4-Chloroaniline	U		0.070	0.20	µg/L	1	9/18/2010 20:31
4-Chlorophenyl phenyl ether	U		0.080	0.20	µg/L	1	9/18/2010 20:31
4-Nitroaniline	U		0.070	0.20	µg/L	1	9/18/2010 20:31
4-Nitrophenol	U		0.070	1.0	µg/L	1	9/18/2010 20:31
Acenaphthene	U		0.090	0.20	µg/L	1	9/18/2010 20:31
Acenaphthylene	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Acetophenone	U		0.10	0.20	µg/L	1	9/18/2010 20:31
Anthracene	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Atrazine	U		0.080	0.20	µg/L	1	9/18/2010 20:31
Benz(a)anthracene	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Benzaldehyde	U		0.12	0.20	µg/L	1	9/18/2010 20:31
Benzo(a)pyrene	U		0.080	0.20	µg/L	1	9/18/2010 20:31
Benzo(b)fluoranthene	U		0.090	0.20	µg/L	1	9/18/2010 20:31
Benzo(g,h,i)perylene	U		0.090	0.20	µg/L	1	9/18/2010 20:31
Benzo(k)fluoranthene	U		0.10	0.20	µg/L	1	9/18/2010 20:31
Bis(2-chloroethoxy)methane	U		0.090	0.20	µg/L	1	9/18/2010 20:31
Bis(2-chloroethyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Bis(2-chloroisopropyl)ether	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Bis(2-ethylhexyl)phthalate	**2.9**		**0.20**	**0.20**	**µg/L**	1	9/18/2010 20:31
Butyl benzyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 20:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWB-09142010
Collection Date: 9/14/2010 02:30 PM

Work Order: 1009543
Lab ID: 1009543-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Caprolactam	U		0.080	0.20	µg/L	1	9/18/2010 20:31
Carbazole	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Chrysene	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Di-n-butyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Di-n-octyl phthalate	U		0.11	0.20	µg/L	1	9/18/2010 20:31
Dibenz(a,h)anthracene	U		0.080	0.20	µg/L	1	9/18/2010 20:31
Dibenzofuran	U		0.080	0.20	µg/L	1	9/18/2010 20:31
Diethyl phthalate	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Dimethyl phthalate	U		0.10	0.20	µg/L	1	9/18/2010 20:31
Fluoranthene	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Fluorene	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Hexachlorobenzene	U		0.10	0.20	µg/L	1	9/18/2010 20:31
Hexachlorobutadiene	U		0.15	0.20	µg/L	1	9/18/2010 20:31
Hexachlorocyclopentadiene	U		0.080	0.20	µg/L	1	9/18/2010 20:31
Hexachloroethane	U		0.17	0.20	µg/L	1	9/18/2010 20:31
Indeno(1,2,3-cd)pyrene	U		0.10	0.20	µg/L	1	9/18/2010 20:31
Isophorone	U		0.070	0.20	µg/L	1	9/18/2010 20:31
N-Nitrosodi-n-propylamine	U		0.10	0.20	µg/L	1	9/18/2010 20:31
N-Nitrosodiphenylamine	U		0.090	0.20	µg/L	1	9/18/2010 20:31
Naphthalene	U		0.10	0.20	µg/L	1	9/18/2010 20:31
Nitrobenzene	U		0.090	0.20	µg/L	1	9/18/2010 20:31
Pentachlorophenol	U		0.080	0.20	µg/L	1	9/18/2010 20:31
Phenanthrene	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Phenol	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Pyrene	U		0.070	0.20	µg/L	1	9/18/2010 20:31
Surr: 2,4,6-Tribromophenol	*42.2*			*34-129*	*%REC*	1	9/18/2010 20:31
Surr: 2-Fluorobiphenyl	*46.5*			*40-125*	*%REC*	1	9/18/2010 20:31
Surr: 2-Fluorophenol	*47.5*			*20-120*	*%REC*	1	9/18/2010 20:31
Surr: 4-Terphenyl-d14	*63.4*			*40-135*	*%REC*	1	9/18/2010 20:31
Surr: Nitrobenzene-d5	*49.3*			*41-120*	*%REC*	1	9/18/2010 20:31
Surr: Phenol-d6	*45.7*			*20-120*	*%REC*	1	9/18/2010 20:31
TCL VOLATILES		Method: **SW8260**					Analyst: **PC**
1,1,1-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/L	1	9/18/2010 19:55
1,1,2-Trichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
1,1-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
1,1-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
1,2,4-Trichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWB-09142010
Collection Date: 9/14/2010 02:30 PM

Work Order: 1009543
Lab ID: 1009543-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromo-3-chloropropane	U		1.0	5.0	µg/L	1	9/18/2010 19:55
1,2-Dibromoethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
1,2-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
1,2-Dichloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
1,2-Dichloropropane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
1,3-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
1,4-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
2-Butanone	U		0.80	10	µg/L	1	9/18/2010 19:55
2-Hexanone	U		1.0	10	µg/L	1	9/18/2010 19:55
4-Methyl-2-pentanone	U		1.0	10	µg/L	1	9/18/2010 19:55
Acetone	U		1.0	10	µg/L	1	9/18/2010 19:55
Benzene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Bromodichloromethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Bromoform	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Bromomethane	U		0.90	5.0	µg/L	1	9/18/2010 19:55
Carbon disulfide	U		1.0	10	µg/L	1	9/18/2010 19:55
Carbon tetrachloride	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Chlorobenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Chloroethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Chloroform	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Chloromethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
cis-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
cis-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Cyclohexane	U		0.60	5.0	µg/L	1	9/18/2010 19:55
Dibromochloromethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Dichlorodifluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Dichloromethane	U		0.50	10	µg/L	1	9/18/2010 19:55
Ethylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Isopropylbenzene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
m,p-Xylene	U		1.0	10	µg/L	1	9/18/2010 19:55
Methyl acetate	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Methyl tert-butyl ether	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Methylcyclohexane	U		0.80	5.0	µg/L	1	9/18/2010 19:55
o-Xylene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Styrene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Tetrachloroethene	U		0.60	5.0	µg/L	1	9/18/2010 19:55
Toluene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
trans-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
trans-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Trichloroethene	U		0.50	5.0	µg/L	1	9/18/2010 19:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: R4-8-B-SWB-09142010
Collection Date: 9/14/2010 02:30 PM

Work Order: 1009543
Lab ID: 1009543-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Trichlorofluoromethane	U		0.50	5.0	µg/L	1	9/18/2010 19:55
Vinyl chloride	U		0.50	2.0	µg/L	1	9/18/2010 19:55
Xylenes, Total	U		1.0	15	µg/L	1	9/18/2010 19:55
Surr: 1,2-Dichloroethane-d4	*102*			*70-125*	*%REC*	1	9/18/2010 19:55
Surr: 4-Bromofluorobenzene	*95.8*			*72-125*	*%REC*	1	9/18/2010 19:55
Surr: Dibromofluoromethane	*104*			*71-125*	*%REC*	1	9/18/2010 19:55
Surr: Toluene-d8	*101*			*75-125*	*%REC*	1	9/18/2010 19:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: TS-09152010
Collection Date: 9/15/2010

Work Order: 1009543
Lab ID: 1009543-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS		Method: **SW8015**					Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.050	mg/Kg	1	9/17/2010 21:53
Surr: 4-Bromofluorobenzene	*78.6*			*70-130*	*%REC*	1	9/17/2010 21:53
TCL VOLATILES		Method: **SW8260**					Analyst: **WLR**
1,1,1-Trichloroethane	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/Kg	1	9/18/2010 11:55
1,1,2-Trichloroethane	U		0.80	5.0	µg/Kg	1	9/18/2010 11:55
1,1-Dichloroethane	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
1,1-Dichloroethene	U		0.80	5.0	µg/Kg	1	9/18/2010 11:55
1,2,4-Trichlorobenzene	U		0.70	5.0	µg/Kg	1	9/18/2010 11:55
1,2-Dibromo-3-chloropropane	U		1.9	5.0	µg/Kg	1	9/18/2010 11:55
1,2-Dibromoethane	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
1,2-Dichlorobenzene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
1,2-Dichloroethane	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
1,2-Dichloropropane	U		0.70	5.0	µg/Kg	1	9/18/2010 11:55
1,3-Dichlorobenzene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
1,4-Dichlorobenzene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
2-Butanone	U		1.9	10	µg/Kg	1	9/18/2010 11:55
2-Hexanone	U		1.1	10	µg/Kg	1	9/18/2010 11:55
4-Methyl-2-pentanone	U		1.0	10	µg/Kg	1	9/18/2010 11:55
Acetone	U		5.0	25	µg/Kg	1	9/18/2010 11:55
Benzene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Bromodichloromethane	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Bromoform	U		0.80	10	µg/Kg	1	9/18/2010 11:55
Bromomethane	U		1.0	10	µg/Kg	1	9/18/2010 11:55
Carbon disulfide	U		1.0	10	µg/Kg	1	9/18/2010 11:55
Carbon tetrachloride	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Chlorobenzene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Chloroethane	U		1.0	10	µg/Kg	1	9/18/2010 11:55
Chloroform	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Chloromethane	U		1.0	10	µg/Kg	1	9/18/2010 11:55
cis-1,2-Dichloroethene	U		0.60	5.0	µg/Kg	1	9/18/2010 11:55
cis-1,3-Dichloropropene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Cyclohexane	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Dibromochloromethane	U		0.60	5.0	µg/Kg	1	9/18/2010 11:55
Dichlorodifluoromethane	U		0.80	5.0	µg/Kg	1	9/18/2010 11:55
Dichloromethane	U		1.4	10	µg/Kg	1	9/18/2010 11:55
Ethylbenzene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: TS-09152010
Collection Date: 9/15/2010

Work Order: 1009543
Lab ID: 1009543-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Isopropylbenzene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
m,p-Xylene	U		1.0	10	µg/Kg	1	9/18/2010 11:55
Methyl acetate	U		1.2	5.0	µg/Kg	1	9/18/2010 11:55
Methyl tert-butyl ether	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Methylcyclohexane	U		0.60	5.0	µg/Kg	1	9/18/2010 11:55
o-Xylene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Styrene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Tetrachloroethene	U		0.60	5.0	µg/Kg	1	9/18/2010 11:55
Toluene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
trans-1,2-Dichloroethene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
trans-1,3-Dichloropropene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Trichloroethene	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Trichlorofluoromethane	U		0.50	5.0	µg/Kg	1	9/18/2010 11:55
Vinyl chloride	U		1.0	2.0	µg/Kg	1	9/18/2010 11:55
Xylenes, Total	U		1.0	15	µg/Kg	1	9/18/2010 11:55
Surr: 1,2-Dichloroethane-d4	*108*			*70-128*	*%REC*	1	9/18/2010 11:55
Surr: 4-Bromofluorobenzene	*103*			*73-126*	*%REC*	1	9/18/2010 11:55
Surr: Dibromofluoromethane	*103*			*71-128*	*%REC*	1	9/18/2010 11:55
Surr: Toluene-d8	*102*			*73-127*	*%REC*	1	9/18/2010 11:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: TB-09152010
Collection Date: 9/15/2010

Work Order: 1009543
Lab ID: 1009543-16
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS		Method: **SW8015**					Analyst: **KKP**
Gasoline Range Organics	U		0.020	0.0500	mg/L	1	9/20/2010 12:21
Surr: 4-Bromofluorobenzene	*101*			*70-130*	*%REC*	1	9/20/2010 12:21
TCL VOLATILES		Method: **SW8260**					Analyst: **PC**
1,1,1-Trichloroethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,1,2,2-Tetrachloroethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.60	5.0	µg/L	1	9/21/2010 13:04
1,1,2-Trichloroethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,1-Dichloroethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,1-Dichloroethene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,2,4-Trichlorobenzene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,2-Dibromo-3-chloropropane	U		1.0	5.0	µg/L	1	9/21/2010 13:04
1,2-Dibromoethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,2-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,2-Dichloroethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,2-Dichloropropane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,3-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
1,4-Dichlorobenzene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
2-Butanone	U		0.80	10	µg/L	1	9/21/2010 13:04
2-Hexanone	U		1.0	10	µg/L	1	9/21/2010 13:04
4-Methyl-2-pentanone	U		1.0	10	µg/L	1	9/21/2010 13:04
Acetone	U		1.0	10	µg/L	1	9/21/2010 13:04
Benzene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Bromodichloromethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Bromoform	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Bromomethane	U		0.90	5.0	µg/L	1	9/21/2010 13:04
Carbon disulfide	U		1.0	10	µg/L	1	9/21/2010 13:04
Carbon tetrachloride	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Chlorobenzene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Chloroethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Chloroform	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Chloromethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
cis-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
cis-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Cyclohexane	U		0.60	5.0	µg/L	1	9/21/2010 13:04
Dibromochloromethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Dichlorodifluoromethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Dichloromethane	**1.3**	J	**0.50**	**10**	**µg/L**	1	9/21/2010 13:04
Ethylbenzene	U		0.50	5.0	µg/L	1	9/21/2010 13:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *22-Sep-10*

Client: Tetra Tech EM, Inc.
Project: R04DW
Sample ID: TB-09152010
Collection Date: 9/15/2010

Work Order: 1009543
Lab ID: 1009543-16
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Isopropylbenzene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
m,p-Xylene	U		1.0	10	µg/L	1	9/21/2010 13:04
Methyl acetate	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Methyl tert-butyl ether	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Methylcyclohexane	U		0.80	5.0	µg/L	1	9/21/2010 13:04
o-Xylene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Styrene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Tetrachloroethene	U		0.60	5.0	µg/L	1	9/21/2010 13:04
Toluene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
trans-1,2-Dichloroethene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
trans-1,3-Dichloropropene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Trichloroethene	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Trichlorofluoromethane	U		0.50	5.0	µg/L	1	9/21/2010 13:04
Vinyl chloride	U		0.50	2.0	µg/L	1	9/21/2010 13:04
Xylenes, Total	U		1.0	15	µg/L	1	9/21/2010 13:04
Surr: 1,2-Dichloroethane-d4	*112*			*70-125*	*%REC*	1	9/21/2010 13:04
Surr: 4-Bromofluorobenzene	*92.9*			*72-125*	*%REC*	1	9/21/2010 13:04
Surr: Dibromofluoromethane	*109*			*71-125*	*%REC*	1	9/21/2010 13:04
Surr: Toluene-d8	*99.6*			*75-125*	*%REC*	1	9/21/2010 13:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

QC Batch Summary Report

Tetra Tech EM, Inc.
R04DW
Work Order 1009543

ALS Environmental

Date: 22-Sep-10

Client: Tetra Tech EM, Inc.

Work Order: 1009543

Project: R04DW

QC BATCH REPORT

Batch ID: **46099** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-100917-46099** Units: **mg/Kg** Analysis Date: **9/19/2010 07:39 PM**

Client ID: Run ID: **FID-7_100917A** SeqNo: **2093422** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Oil Range)	U	3.4								
TPH (Diesel Range)	U	1.7								
Surr: 2-Fluorobiphenyl	*3.955*	0.10	*3.33*	0	*119*	*70-130*	0			

LCS Sample ID: **FLCSS1-100917-46099** Units: **mg/Kg** Analysis Date: **9/19/2010 07:59 PM**

Client ID: Run ID: **FID-7_100917A** SeqNo: **2093423** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Oil Range)	35.36	3.4	33.33	0	106	70-130	0			
TPH (Diesel Range)	32.62	1.7	33.33	0	97.9	70-130	0			
Surr: 2-Fluorobiphenyl	*4.187*	0.10	*3.33*	0	*126*	*70-130*	0			

LCSD Sample ID: **FLCSDS1-100917-46099** Units: **mg/Kg** Analysis Date: **9/19/2010 08:18 PM**

Client ID: Run ID: **FID-7_100917A** SeqNo: **2093424** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Oil Range)	38.51	3.4	33.33	0	116	70-130	35.36	8.51	30	
TPH (Diesel Range)	34.69	1.7	33.33	0	104	70-130	32.62	6.14	30	
Surr: 2-Fluorobiphenyl	*4.177*	0.10	*3.33*	0	*125*	*70-130*	4.187	*0.251*	*30*	

The following samples were analyzed in this batch:

1009543-01C	1009543-03C	1009543-06C
1009543-09C	1009543-12C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46129** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKW1-100918-46129** Units: **mg/L** Analysis Date: **9/18/2010 11:55 AM**
Client ID: Run ID: **FID-7_100918A** SeqNo: **2093354** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Oil Range)	U	0.10								
TPH (Diesel Range)	U	0.050								
Surr: 2-Fluorobiphenyl	*0.1012*	0.0050	*0.1*	0	*101*	*70-130*	0			

LCS Sample ID: **FLCSW1-100918-46129** Units: **mg/L** Analysis Date: **9/18/2010 12:15 PM**
Client ID: Run ID: **FID-7_100918A** SeqNo: **2093355** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Oil Range)	1.054	0.10	1	0	105	70-130	0			
TPH (Diesel Range)	0.9364	0.050	1	0	93.6	70-130	0			
Surr: 2-Fluorobiphenyl	*0.1132*	0.0050	*0.1*	0	*113*	*70-130*	0			

LCSD Sample ID: **FLCSDW1-100918-46129** Units: **mg/L** Analysis Date: **9/18/2010 12:34 PM**
Client ID: Run ID: **FID-7_100918A** SeqNo: **2093356** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Oil Range)	1.119	0.10	1	0	112	70-130	1.054	5.98	20	
TPH (Diesel Range)	0.8939	0.050	1	0	89.4	70-130	0.9364	4.65	20	
Surr: 2-Fluorobiphenyl	*0.1211*	0.0050	*0.1*	0	*121*	*70-130*	0.1132	*6.74*	*20*	

The following samples were analyzed in this batch:

1009543-02D	1009543-04D	1009543-05D
1009543-07D	1009543-08D	1009543-10D
1009543-11D	1009543-13D	1009543-14D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97360** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS-091710-R97360** Units: **mg/Kg** Analysis Date: **9/17/2010 02:45 PM**
Client ID: Run ID: **FID-9_100917A** SeqNo: **2093808** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	*0.08301*	0.0050	*0.1*	0	*83*	*70-130*	0			

LCS Sample ID: **GLCSS-091710-R97360** Units: **mg/Kg** Analysis Date: **9/17/2010 02:09 PM**
Client ID: Run ID: **FID-9_100917A** SeqNo: **2093806** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.026	0.050	1	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	*0.08808*	0.0050	*0.1*	0	*88.1*	*70-130*	0			

LCSD Sample ID: **GLCSDS-091710-R97360** Units: **mg/Kg** Analysis Date: **9/17/2010 02:27 PM**
Client ID: Run ID: **FID-9_100917A** SeqNo: **2093807** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9567	0.050	1	0	95.7	70-130	1.026	6.96	30	
Surr: 4-Bromofluorobenzene	*0.08307*	0.0050	*0.1*	0	*83.1*	*70-130*	0.08808	*5.85*	*30*	

The following samples were analyzed in this batch:

1009543-01B	1009543-03B	1009543-06B
1009543-09B	1009543-12B	1009543-15B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97366** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKW-091710-R97366** Units: **mg/L** Analysis Date: **9/18/2010 06:00 AM**
Client ID: Run ID: **FID-9_100917B** SeqNo: **2093917** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	*0.09318*	0.0050	*0.1*	0	*93.2*	*70-130*	0			

LCS Sample ID: **GLCSW-091710-R97366** Units: **mg/L** Analysis Date: **9/18/2010 05:25 AM**
Client ID: Run ID: **FID-9_100917B** SeqNo: **2093915** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.096	0.050	1	0	110	70-130	0			
Surr: 4-Bromofluorobenzene	*0.1002*	0.0050	*0.1*	0	*100*	*70-130*	0			

LCSD Sample ID: **GLCSDW-091710-R97366** Units: **mg/L** Analysis Date: **9/18/2010 05:42 AM**
Client ID: Run ID: **FID-9_100917B** SeqNo: **2093916** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.002	0.050	1	0	100	70-130	1.096	8.93	30	
Surr: 4-Bromofluorobenzene	*0.1026*	0.0050	*0.1*	0	*103*	*70-130*	0.1002	*2.34*	*30*	

The following samples were analyzed in this batch:

1009543-04B	1009543-05B	1009543-07B
1009543-08B	1009543-10B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97377** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKW-092010-R97377** Units: **mg/L** Analysis Date: **9/20/2010 12:03 PM**
Client ID: Run ID: **FID-9_100920A** SeqNo: **2094141** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	*0.1038*	0.0050	*0.1*	0	*104*	*70-130*	0			

LCS Sample ID: **GLCSW-092010-R97377** Units: **mg/L** Analysis Date: **9/20/2010 11:27 AM**
Client ID: Run ID: **FID-9_100920A** SeqNo: **2094139** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.146	0.050	1	0	115	70-130	0			
Surr: 4-Bromofluorobenzene	*0.1047*	0.0050	*0.1*	0	*105*	*70-130*	0			

LCSD Sample ID: **GLCSDW-092010-R97377** Units: **mg/L** Analysis Date: **9/20/2010 11:45 AM**
Client ID: Run ID: **FID-9_100920A** SeqNo: **2094140** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.083	0.050	1	0	108	70-130	1.146	5.64	30	
Surr: 4-Bromofluorobenzene	*0.1022*	0.0050	*0.1*	0	*102*	*70-130*	0.1047	*2.46*	*30*	

MS Sample ID: **1009582-10BMS** Units: **mg/L** Analysis Date: **9/20/2010 05:00 PM**
Client ID: Run ID: **FID-9_100920A** SeqNo: **2095656** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.167	0.050	1	0	117	70-130	0			
Surr: 4-Bromofluorobenzene	*0.1087*	0.0050	*0.1*	0	*109*	*70-130*	0			

MSD Sample ID: **1009582-10BMSD** Units: **mg/L** Analysis Date: **9/20/2010 05:18 PM**
Client ID: Run ID: **FID-9_100920A** SeqNo: **2095657** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.127	0.050	1	0	113	70-130	1.167	3.44	30	
Surr: 4-Bromofluorobenzene	*0.107*	0.0050	*0.1*	0	*107*	*70-130*	0.1087	*1.52*	*30*	

The following samples were analyzed in this batch: 1009543-11B 1009543-13B 1009543-14B 1009543-16B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97466** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKW-092110-R97466** Units: **mg/L** Analysis Date: **9/21/2010 01:12 PM**
Client ID: Run ID: **FID-9_100921A** SeqNo: **2095690** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	*0.1066*	0.0050	*0.1*	0	*107*	*70-130*	0			

LCS Sample ID: **GLCSW-092110-R97466** Units: **mg/L** Analysis Date: **9/21/2010 12:36 PM**
Client ID: Run ID: **FID-9_100921A** SeqNo: **2095688** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9898	0.050	1	0	99	70-130	0			
Surr: 4-Bromofluorobenzene	*0.11*	0.0050	*0.1*	0	*110*	*70-130*	0			

LCSD Sample ID: **GLCSDW-092110-R97466** Units: **mg/L** Analysis Date: **9/21/2010 12:54 PM**
Client ID: Run ID: **FID-9_100921A** SeqNo: **2095689** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9704	0.050	1	0	97	70-130	0.9898	1.99	30	
Surr: 4-Bromofluorobenzene	*0.1167*	0.0050	*0.1*	0	*117*	*70-130*	0.11	*5.89*	*30*	

The following samples were analyzed in this batch: 1009543-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46109** Instrument ID **Mercury** Method: **SW7470**

MBLK Sample ID: **GBLKW2-091710-46109** Units: **mg/L** Analysis Date: **9/18/2010 04:33 PM**
Client ID: Run ID: **MERCURY_100918A** SeqNo: **2092955** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS Sample ID: **GLCSW2-091710-46109** Units: **mg/L** Analysis Date: **9/18/2010 04:35 PM**
Client ID: Run ID: **MERCURY_100918A** SeqNo: **2092956** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0052	0.00020	0.005	0	104	85-115	0			

LCSD Sample ID: **GLCSDW2-091710-46109** Units: **mg/L** Analysis Date: **9/18/2010 04:37 PM**
Client ID: Run ID: **MERCURY_100918A** SeqNo: **2092957** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00559	0.00020	0.005	0	112	85-115	0.0052	7.23	20	

The following samples were analyzed in this batch:

1009543-02C	1009543-04C	1009543-05C
1009543-07C	1009543-08C	1009543-10C
1009543-11C	1009543-13C	1009543-14C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46111** Instrument ID **ICPMS03** Method: **SW6020**

MBLK Sample ID: **MBLKW4-091710-46111** Units: **mg/L** Analysis Date: **9/17/2010 07:12 PM**

Client ID: Run ID: **ICPMS03_100917A** SeqNo: **2092714** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Antimony	U	0.0050								
Arsenic	U	0.0050								
Barium	U	0.0050								
Beryllium	U	0.0020								
Cadmium	U	0.0020								
Calcium	U	0.50								
Chromium	U	0.0050								
Cobalt	U	0.0050								
Copper	U	0.0050								
Iron	U	0.20								
Lead	U	0.0050								
Magnesium	U	0.20								
Manganese	U	0.0050								
Nickel	U	0.0050								
Potassium	U	0.20								
Selenium	U	0.0050								
Silver	U	0.0050								
Sodium	U	0.20								
Thallium	U	0.0020								
Vanadium	U	0.0050								
Zinc	U	0.0050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46111** Instrument ID **ICPMS03** Method: **SW6020**

LCS Sample ID: **MLCSW4-091710-46111** Units: **mg/L** Analysis Date: **9/17/2010 07:00 PM**
Client ID: Run ID: **ICPMS03_100917A** SeqNo: **2092712** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1022	0.010	0.1	0	102	80-120	0			
Antimony	0.05137	0.0050	0.05	0	103	80-120	0			
Arsenic	0.05214	0.0050	0.05	0	104	80-120	0			
Barium	0.05132	0.0050	0.05	0	103	80-120	0			
Beryllium	0.05097	0.0020	0.05	0	102	80-120	0			
Cadmium	0.0512	0.0020	0.05	0	102	80-120	0			
Calcium	5.314	0.50	5	0	106	80-120	0			
Chromium	0.05154	0.0050	0.05	0	103	80-120	0			
Cobalt	0.05267	0.0050	0.05	0	105	80-120	0			
Copper	0.05447	0.0050	0.05	0	109	80-120	0			
Iron	5.172	0.20	5	0	103	80-120	0			
Lead	0.05032	0.0050	0.05	0	101	80-120	0			
Magnesium	5.047	0.20	5	0	101	80-120	0			
Manganese	0.05299	0.0050	0.05	0	106	80-120	0			
Nickel	0.05239	0.0050	0.05	0	105	80-120	0			
Potassium	5.007	0.20	5	0	100	80-120	0			
Selenium	0.05253	0.0050	0.05	0	105	80-120	0			
Silver	0.05195	0.0050	0.05	0	104	80-120	0			
Sodium	5.05	0.20	5	0	101	80-120	0			
Thallium	0.05078	0.0020	0.05	0	102	80-120	0			
Vanadium	0.05159	0.0050	0.05	0	103	80-120	0			
Zinc	0.05684	0.0050	0.05	0	114	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46111** Instrument ID **ICPMS03** Method: **SW6020**

LCSD Sample ID: **MLCSDW4-091710-46111** Units: **mg/L** Analysis Date: **9/17/2010 07:07 PM**
Client ID: Run ID: **ICPMS03_100917A** SeqNo: **2092713** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1051	0.010	0.1	0	105	80-120	0.1022	2.8	15	
Antimony	0.05122	0.0050	0.05	0	102	80-120	0.05137	0.292	15	
Arsenic	0.05258	0.0050	0.05	0	105	80-120	0.05214	0.84	15	
Barium	0.05211	0.0050	0.05	0	104	80-120	0.05132	1.53	15	
Beryllium	0.05185	0.0020	0.05	0	104	80-120	0.05097	1.71	15	
Cadmium	0.05252	0.0020	0.05	0	105	80-120	0.0512	2.55	15	
Calcium	5.322	0.50	5	0	106	80-120	5.314	0.15	15	
Chromium	0.05219	0.0050	0.05	0	104	80-120	0.05154	1.25	15	
Cobalt	0.05286	0.0050	0.05	0	106	80-120	0.05267	0.36	15	
Copper	0.05278	0.0050	0.05	0	106	80-120	0.05447	3.15	15	
Iron	5.183	0.20	5	0	104	80-120	5.172	0.212	15	
Lead	0.05096	0.0050	0.05	0	102	80-120	0.05032	1.26	15	
Magnesium	5.138	0.20	5	0	103	80-120	5.047	1.79	15	
Manganese	0.05325	0.0050	0.05	0	106	80-120	0.05299	0.489	15	
Nickel	0.05465	0.0050	0.05	0	109	80-120	0.05239	4.22	15	
Potassium	5.069	0.20	5	0	101	80-120	5.007	1.23	15	
Selenium	0.05295	0.0050	0.05	0	106	80-120	0.05253	0.796	15	
Silver	0.05215	0.0050	0.05	0	104	80-120	0.05195	0.384	15	
Sodium	5.082	0.20	5	0	102	80-120	5.05	0.632	15	
Thallium	0.05127	0.0020	0.05	0	103	80-120	0.05078	0.96	15	
Vanadium	0.05134	0.0050	0.05	0	103	80-120	0.05159	0.486	15	
Zinc	0.05956	0.0050	0.05	0	119	80-120	0.05684	4.67	15	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46111** Instrument ID **ICPMS03** Method: **SW6020**

PDS Sample ID: **1009537-14CBS** Units: **mg/L** Analysis Date: **9/17/2010 09:03 PM**

Client ID: Run ID: **ICPMS03_100917A** SeqNo: **2092735** Prep Date: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2.074	0.20	2	0.1261	97.4	75-125	0			
Antimony	1.901	0.10	2	-0.00273	95.2	75-125	0			
Arsenic	2.024	0.10	2	0.00275	101	75-125	0			
Barium	2.046	0.10	2	0.02124	101	75-125	0			
Beryllium	2.054	0.040	2	-0.007456	103	75-125	0			
Cadmium	2	0.040	2	-0.002002	100	75-125	0			
Calcium	568.8	10	200	363.2	103	75-125	0			
Chromium	2.03	0.10	2	0.0004842	101	75-125	0			
Cobalt	1.978	0.10	2	-0.004224	99.1	75-125	0			
Copper	1.877	0.10	2	-0.01326	94.5	75-125	0			
Iron	199.2	4.0	200	-0.6788	99.9	75-125	0			
Lead	2.032	0.10	2	0.00358	101	75-125	0			
Magnesium	1238	4.0	200	998.4	120	75-125	0			O
Manganese	2.044	0.10	2	-0.001404	102	75-125	0			
Nickel	1.96	0.10	2	0.0124	97.4	75-125	0			
Potassium	536.4	4.0	200	310	113	75-125	0			
Selenium	2.044	0.10	2	-0.00518	102	75-125	0			
Silver	1.639	0.10	2	-0.006506	82.3	75-125	0			
Sodium	U	4.0	200	0	0	75-125	0			SX
Thallium	2.092	0.040	2	0.001519	105	75-125	0			
Vanadium	2.106	0.10	2	-0.0003502	105	75-125	0			
Zinc	1.998	0.10	2	-0.03624	102	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46111** Instrument ID **ICPMS03** Method: **SW6020**

SD Sample ID: **1009537-14C DIL SX** Units: **mg/L** Analysis Date: **9/17/2010 09:08 PM**
Client ID: Run ID: **ICPMS03_100917A** SeqNo: **2092736** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	U	1.0	0	0	0	0-0	0.1261	0	10	
Antimony	U	0.50	0	0	0	0-0	-0.00273	0	10	
Arsenic	U	0.50	0	0	0	0-0	0.00275	0	10	
Barium	U	0.50	0	0	0	0-0	0.02124	0	10	
Beryllium	U	0.20	0	0	0	0-0	-0.007456	0	10	
Cadmium	U	0.20	0	0	0	0-0	-0.002002	0	10	
Calcium	360	50	0	0	0	0-0	363.2	0.881	10	
Chromium	U	0.50	0	0	0	0-0	0.0004842	0	10	
Cobalt	U	0.50	0	0	0	0-0	-0.004224	0	10	
Copper	U	0.50	0	0	0	0-0	-0.01326	0	10	
Iron	U	20	0	0	0	0-0	-0.6788	0	10	
Lead	U	0.50	0	0	0	0-0	0.00358	0	10	
Magnesium	1025	20	0	0	0	0-0	998.4	2.66	10	
Manganese	U	0.50	0	0	0	0-0	-0.001404	0	10	
Nickel	U	0.50	0	0	0	0-0	0.0124	0	10	
Potassium	319.8	20	0	0	0	0-0	310	3.16	10	
Selenium	U	0.50	0	0	0	0-0	-0.00518	0	10	
Silver	U	0.50	0	0	0	0-0	-0.006506	0	10	
Sodium	8724	20	0	0	0	0-0	0	0	10	
Thallium	U	0.20	0	0	0	0-0	0.001519	0	10	
Vanadium	U	0.50	0	0	0	0-0	-0.0003502	0	10	
Zinc	U	0.50	0	0	0	0-0	-0.03624	0	10	

The following samples were analyzed in this batch:

1009543-02C	1009543-04C	1009543-05C
1009543-07C	1009543-08C	1009543-10C
1009543-11C	1009543-13C	1009543-14C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46112** Instrument ID **ICP7500** Method: **SW6020**

MBLK Sample ID: **MBLKS2-091710-46112** Units: **mg/Kg** Analysis Date: **9/20/2010 04:35 PM**

Client ID: Run ID: **ICP7500_100920A** SeqNo: **2094589** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.7233	1.0								J
Antimony	U	0.50								
Arsenic	U	0.50								
Barium	U	0.50								
Beryllium	U	0.50								
Cadmium	U	0.50								
Calcium	U	50								
Chromium	U	0.50								
Cobalt	U	0.50								
Copper	U	0.50								
Iron	U	50								
Lead	U	0.50								
Magnesium	4.724	50								J
Manganese	U	0.50								
Nickel	U	0.50								
Potassium	3.887	50								J
Selenium	U	0.50								
Silver	U	0.50								
Sodium	5.121	50								J
Thallium	U	0.50								
Vanadium	U	0.50								
Zinc	0.4495	0.50								J

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46112** Instrument ID **ICP7500** Method: **SW6020**

LCS Sample ID: **MLCSS2-091710-46112** Units: **mg/Kg** Analysis Date: **9/17/2010 06:17 PM**
Client ID: Run ID: **ICP7500_100917A** SeqNo: **2093082** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	11.58	1.0	10	0	116	80-120	0			
Antimony	9.637	0.50	10	0	96.4	80-120	0			
Arsenic	9.859	0.50	10	0	98.6	80-120	0			
Barium	10.67	0.50	10	0	107	80-120	0			
Beryllium	10.13	0.50	10	0	101	80-120	0			
Cadmium	10.43	0.50	10	0	104	80-120	0			
Calcium	1010	50	1000	0	101	80-120	0			
Chromium	10.32	0.50	10	0	103	80-120	0			
Cobalt	10.18	0.50	10	0	102	80-120	0			
Copper	10.16	0.50	10	0	102	80-120	0			
Iron	1004	50	1000	0	100	80-120	0			
Lead	10.44	0.50	10	0	104	80-120	0			
Magnesium	1027	50	1000	0	103	80-120	0			
Manganese	10.21	0.50	10	0	102	80-120	0			
Nickel	10.23	0.50	10	0	102	80-120	0			
Potassium	1036	50	1000	0	104	80-120	0			
Selenium	9.733	0.50	10	0	97.3	80-120	0			
Silver	10.37	0.50	10	0	104	80-120	0			
Sodium	1028	50	1000	0	103	80-120	0			
Thallium	10.54	0.50	10	0	105	80-120	0			
Vanadium	10.36	0.50	10	0	104	80-120	0			
Zinc	10.1	0.50	10	0	101	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46112** Instrument ID **ICP7500** Method: **SW6020**

LCSD Sample ID: **MLCSDS2-091710-46112** Units: **mg/Kg** Analysis Date: **9/17/2010 06:23 PM**
Client ID: Run ID: **ICP7500_100917A** SeqNo: **2093083** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	10.79	1.0	10	0	108	80-120	11.58	7.06	20	
Antimony	9.944	0.50	10	0	99.4	80-120	9.637	3.14	20	
Arsenic	10.05	0.50	10	0	100	80-120	9.859	1.92	20	
Barium	10.84	0.50	10	0	108	80-120	10.67	1.58	20	
Beryllium	10.38	0.50	10	0	104	80-120	10.13	2.44	20	
Cadmium	10.51	0.50	10	0	105	80-120	10.43	0.764	20	
Calcium	1027	50	1000	0	103	80-120	1010	1.67	20	
Chromium	10.38	0.50	10	0	104	80-120	10.32	0.58	20	
Cobalt	10.38	0.50	10	0	104	80-120	10.18	1.95	20	
Copper	10.33	0.50	10	0	103	80-120	10.16	1.66	20	
Iron	1022	50	1000	0	102	80-120	1004	1.78	20	
Lead	10.65	0.50	10	0	106	80-120	10.44	1.99	20	
Magnesium	1034	50	1000	0	103	80-120	1027	0.679	20	
Manganese	10.36	0.50	10	0	104	80-120	10.21	1.46	20	
Nickel	10.2	0.50	10	0	102	80-120	10.23	0.294	20	
Potassium	1040	50	1000	0	104	80-120	1036	0.385	20	
Selenium	10.41	0.50	10	0	104	80-120	9.733	6.72	20	
Silver	10.54	0.50	10	0	105	80-120	10.37	1.63	20	
Sodium	1028	50	1000	0	103	80-120	1028	0	20	
Thallium	10.81	0.50	10	0	108	80-120	10.54	2.53	20	
Vanadium	10.39	0.50	10	0	104	80-120	10.36	0.289	20	
Zinc	10.46	0.50	10	0	105	80-120	10.1	3.5	20	

PDS Sample ID: **1009537-12CBS** Units: **mg/Kg** Analysis Date: **9/17/2010 07:06 PM**
Client ID: Run ID: **ICP7500_100917A** SeqNo: **2093090** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2246	87	869.6	1487	87.3	75-125	0			
Manganese	926.1	44	869.6	80.6	97.2	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46112** Instrument ID **ICP7500** Method: **SW6020**

PDS Sample ID: **1009537-12CBS** Units: **mg/Kg** Analysis Date: **9/17/2010 08:07 PM**
Client ID: Run ID: **ICP7500_100917A** SeqNo: **2093100** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	8.568	0.44	8.696	0.08243	97.6	75-125	0			
Arsenic	10.34	0.44	8.696	1.739	98.9	75-125	0			
Barium	16.88	0.44	8.696	8.314	98.5	75-125	0			
Beryllium	9.183	0.44	8.696	0.1856	103	75-125	0			
Cadmium	8.791	0.44	8.696	0.0487	101	75-125	0			
Calcium	5557	44	869.6	4743	93.6	75-125	0			O
Chromium	12	0.44	8.696	3.631	96.2	75-125	0			
Cobalt	9.591	0.44	8.696	1.073	98	75-125	0			
Copper	9.174	0.44	8.696	0.8713	95.5	75-125	0			
Iron	3716	44	869.6	2966	86.2	75-125	0			
Lead	10.83	0.44	8.696	2.082	101	75-125	0			
Magnesium	1878	44	869.6	1159	82.7	75-125	0			
Nickel	9.609	0.44	8.696	0.7895	101	75-125	0			
Potassium	1164	44	869.6	380.9	90.1	75-125	0			
Selenium	8.904	0.44	8.696	0.2037	100	75-125	0			
Silver	7.732	0.44	8.696	0.0457	88.4	75-125	0			
Sodium	3084	44	869.6	2389	80	75-125	0			
Thallium	8.835	0.44	8.696	0.09296	101	75-125	0			
Vanadium	12.5	0.44	8.696	4.272	94.6	75-125	0			
Zinc	16.76	0.44	8.696	8.585	94	75-125	0			

SD Sample ID: **1009537-12C DIL SX** Units: **mg/Kg** Analysis Date: **9/17/2010 07:24 PM**
Client ID: Run ID: **ICP7500_100917A** SeqNo: **2093093** Prep Date: DF: **500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	1445	440	0	0	0	0-0	1487	2.84	10	
Manganese	86.83	220	0	0	0	0-0	80.6	0	10	J

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46112** Instrument ID **ICP7500** Method: **SW6020**

SD Sample ID: **1009537-12C DIL SX** Units: **mg/Kg** Analysis Date: **9/17/2010 08:13 PM**

Client ID: Run ID: **ICP7500_100917A** SeqNo: **2093101** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	U	2.2	0	0	0	0-0	0.08243	0	10	
Arsenic	1.837	2.2	0	0	0	0-0	1.739	0	10	J
Barium	8.183	2.2	0	0	0	0-0	8.314	1.58	10	
Beryllium	0.4504	2.2	0	0	0	0-0	0.1856	0	10	J
Cadmium	0.3307	2.2	0	0	0	0-0	0.0487	0	10	J
Calcium	4127	220	0	0	0	0-0	4743	13	10	R
Chromium	3.655	2.2	0	0	0	0-0	3.631	0.647	10	
Cobalt	1.169	2.2	0	0	0	0-0	1.073	0	10	J
Copper	0.8396	2.2	0	0	0	0-0	0.8713	0	10	J
Iron	2870	220	0	0	0	0-0	2966	3.25	10	
Lead	2.152	2.2	0	0	0	0-0	2.082	0	10	J
Magnesium	1174	220	0	0	0	0-0	1159	1.31	10	
Nickel	U	2.2	0	0	0	0-0	0.7895	0	10	
Potassium	358.7	220	0	0	0	0-0	380.9	5.82	10	
Selenium	U	2.2	0	0	0	0-0	0.2037	0	10	
Silver	0.2912	2.2	0	0	0	0-0	0.0457	0	10	J
Sodium	2335	220	0	0	0	0-0	2389	2.26	10	
Thallium	0.7417	2.2	0	0	0	0-0	0.09296	0	10	J
Vanadium	4.076	2.2	0	0	0	0-0	4.272	4.59	10	
Zinc	8.148	2.2	0	0	0	0-0	8.585	5.09	10	

The following samples were analyzed in this batch: 1009543-01C, 1009543-03C, 1009543-06C, 1009543-09C, 1009543-12C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46138** Instrument ID **HG02** Method: **SW7471A**

MBLK Sample ID: **GBLKS1-091810-46138** Units: **µg/Kg** Analysis Date: **9/18/2010 05:33 PM**
Client ID: Run ID: **HG02_100918A** SeqNo: **2093018** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	3.3								

LCS Sample ID: **GLCSS1-091810-46138** Units: **µg/Kg** Analysis Date: **9/18/2010 05:35 PM**
Client ID: Run ID: **HG02_100918A** SeqNo: **2093019** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	339.3	3.3	333.3	0	102	85-115	0			

MS Sample ID: **1009582-08CMS** Units: **µg/Kg** Analysis Date: **9/18/2010 06:17 PM**
Client ID: Run ID: **HG02_100918A** SeqNo: **2093040** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	319.5	3.4	338.4	2.925	93.5	85-115	0			

MSD Sample ID: **1009582-08CMSD** Units: **µg/Kg** Analysis Date: **9/18/2010 06:19 PM**
Client ID: Run ID: **HG02_100918A** SeqNo: **2093041** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	322.4	3.4	337.3	2.925	94.7	85-115	319.5	0.925	20	

DUP Sample ID: **1009582-08CDUP** Units: **µg/Kg** Analysis Date: **9/18/2010 06:15 PM**
Client ID: Run ID: **HG02_100918A** SeqNo: **2093039** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.346	3.4	0	0	0		2.925	39.1	20	R

The following samples were analyzed in this batch:

1009543-01C	1009543-03C	1009543-06C
1009543-09C	1009543-12C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46107** Instrument ID **SV-7** Method: **SW8270SIM**

MBLK Sample ID: **ABLKS1-100917-46107** Units: **ug/Kg** Analysis Date: **9/17/2010 08:48 PM**

Client ID: Run ID: **SV-7_100917A** SeqNo: **2094303** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	3.3								
2-Methylnaphthalene	U	3.3								
2-Methylnaphthalene-d10	U	3.3								
Acenaphthene	U	3.3								
Acenaphthylene	U	3.3								
Anthracene	U	3.3								
Benz(a)anthracene	U	3.3								
Benzo(a)pyrene	U	3.3								
Benzo(b)fluoranthene	U	3.3								
Benzo(e)pyrene	U	3.3								
Benzo(g,h,i)perylene	U	3.3								
Benzo(k)fluoranthene	U	3.3								
C1-Chrysenes	U	3.3								
C1-Fluoranthenes/Pyrenes	U	3.3								
C1-Fluorenes	U	3.3								
C1-Phenanthrenes/anthracenes	U	3.3								
C2-Chrysenes	U	3.3								
C2-Fluoranthenes/Pyrenes	U	3.3								
C2-Fluorenes	U	3.3								
C2-naphthalenes	U	3.3								
C2-Phenanthrenes/anthracenes	U	3.3								
C3-Chrysenes	U	3.3								
C3-Fluoranthenes/Pyrenes	U	3.3								
C3-Fluorenes	U	3.3								
C3-naphthalenes	U	3.3								
C3-Phenanthrenes/anthracenes	U	3.3								
C4-Chrysenes	U	3.3								
C4-Naphthalenes	U	3.3								
C4-Phenanthrenes/anthracenes	U	3.3								
Chrysene	U	3.3								
Dibenz(a,h)anthracene	U	3.3								
Fluoranthene	U	3.3								
Fluorene	U	3.3								
Indeno(1,2,3-cd)pyrene	U	3.3								
Naphthalene	U	3.3								
Perylene	U	3.3								
Phenanthrene	U	3.3								
Pyrene	U	3.3								
Surr: Acenaphthylene-d8	*8.233*	3.3	*13.33*	0	*61.7*	*20-97*	0			
Surr: Anthracene-d10	*10.4*	3.3	*13.33*	0	*78*	*22-98*	0			
Surr: Benzo(a)pyrene-d12	*7.391*	3.3	*13.33*	0	*55.4*	*43-111*	0			
Surr: Pyrene-d10	*8.619*	3.3	*13.33*	0	*64.6*	*51-120*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46107** Instrument ID **SV-7** Method: **SW8270SIM**

LCS Sample ID: **ALCSS1-100917-46107** Units: **ug/Kg** Analysis Date: **9/17/2010 07:59 PM**
Client ID: Run ID: **SV-7_100917A** SeqNo: **2094301** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene-d10	10.25	3.3	13.33	0	76.9	50-150	0			
Surr: Acenaphthylene-d8	*9.228*	3.3	*13.33*	0	*69.2*	*20-97*	0			
Surr: Anthracene-d10	*9.93*	3.3	*13.33*	0	*74.5*	*22-98*	0			
Surr: Benzo(a)pyrene-d12	*8.079*	3.3	*13.33*	0	*60.6*	*43-111*	0			
Surr: Pyrene-d10	*9.94*	3.3	*13.33*	0	*74.6*	*51-120*	0			

LCSD Sample ID: **ALCSDS1-100917-46107** Units: **ug/Kg** Analysis Date: **9/17/2010 08:23 PM**
Client ID: Run ID: **SV-7_100917A** SeqNo: **2094302** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene-d10	9.115	3.3	13.33	0	68.4	50-150	10.25	11.7	50	
Surr: Acenaphthylene-d8	*9.217*	3.3	*13.33*	0	*69.1*	*20-97*	9.228	*0.118*	*50*	
Surr: Anthracene-d10	*11.46*	3.3	*13.33*	0	*86*	*22-98*	9.93	*14.3*	*50*	
Surr: Benzo(a)pyrene-d12	*8.628*	3.3	*13.33*	0	*64.7*	*43-111*	8.079	*6.58*	*50*	
Surr: Pyrene-d10	*10.09*	3.3	*13.33*	0	*75.7*	*51-120*	9.94	*1.51*	*50*	

The following samples were analyzed in this batch:

1009543-01C	1009543-03C	1009543-06C
1009543-09C	1009543-12C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46108** Instrument ID **SV-7** Method: **SW8270SIM**

MBLK Sample ID: **ABLKW1-100917-46108** Units: **ug/L** Analysis Date: **9/18/2010 02:07 AM**

Client ID: Run ID: **SV-7_100917B** SeqNo: **2094338** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	0.10								
2-Methylnaphthalene	U	0.10								
2-Methylnaphthalene-d10	U	0.10								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Benzo(b)fluoranthene	U	0.10								
Benzo(e)pyrene	U	0.10								
Benzo(g,h,i)perylene	U	0.10								
Benzo(k)fluoranthene	U	0.10								
C1-Chrysenes	U	0.10								
C1-Fluoranthenes/Pyrenes	U	0.10								
C1-Fluorenes	U	0.10								
C1-Phenanthrenes/anthracenes	U	0.10								
C2-Chrysenes	U	0.10								
C2-Fluoranthenes/Pyrenes	U	0.10								
C2-Fluorenes	U	0.10								
C2-naphthalenes	U	0.10								
C2-Phenanthrenes/anthracenes	U	0.10								
C3-Chrysenes	U	0.10								
C3-Fluoranthenes/Pyrenes	U	0.10								
C3-Fluorenes	U	0.10								
C3-naphthalenes	U	0.10								
C3-Phenanthrenes/anthracenes	U	0.10								
C4-Chrysenes	U	0.10								
C4-Naphthalenes	U	0.10								
C4-Phenanthrenes/anthracenes	U	0.10								
Chrysene	U	0.10								
Dibenz(a,h)anthracene	U	0.10								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Indeno(1,2,3-cd)pyrene	U	0.10								
Naphthalene	U	0.10								
Perylene	U	0.10								
Phenanthrene	U	0.10								
Pyrene	U	0.10								
Surr: Acenaphthylene-d8	*0.2844*	0.10	*0.4*	0	*71.1*	*41-107*	0			
Surr: Anthracene-d10	*0.2973*	0.10	*0.4*	0	*74.3*	*44-110*	0			
Surr: Benzo(a)pyrene-d12	*0.3105*	0.10	*0.4*	0	*77.6*	*32-121*	0			
Surr: Pyrene-d10	*0.3118*	0.10	*0.4*	0	*77.9*	*52-119*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46108** Instrument ID **SV-7** Method: **SW8270SIM**

LCS Sample ID: **ALCSW1-100917-46108** Units: **ug/L** Analysis Date: **9/18/2010 02:31 AM**
Client ID: Run ID: **SV-7_100917B** SeqNo: **2094339** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene-d10	0.2725	0.10	0.4	0	68.1	50-150	0			
Surr: Acenaphthylene-d8	*0.2823*	0.10	*0.4*	0	*70.6*	*41-107*	0			
Surr: Anthracene-d10	*0.271*	0.10	*0.4*	0	*67.8*	*44-110*	0			
Surr: Benzo(a)pyrene-d12	*0.2894*	0.10	*0.4*	0	*72.3*	*32-121*	0			
Surr: Pyrene-d10	*0.2924*	0.10	*0.4*	0	*73.1*	*52-119*	0			

LCSD Sample ID: **ALCSDW1-100917-46108** Units: **ug/L** Analysis Date: **9/18/2010 02:56 AM**
Client ID: Run ID: **SV-7_100917B** SeqNo: **2094340** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene-d10	0.2724	0.10	0.4	0	68.1	50-150	0.2725	0.0455	50	
Surr: Acenaphthylene-d8	*0.2717*	0.10	*0.4*	0	*67.9*	*41-107*	0.2823	*3.8*	*50*	
Surr: Anthracene-d10	*0.2815*	0.10	*0.4*	0	*70.4*	*44-110*	0.271	*3.78*	*50*	
Surr: Benzo(a)pyrene-d12	*0.3089*	0.10	*0.4*	0	*77.2*	*32-121*	0.2894	*6.54*	*50*	
Surr: Pyrene-d10	*0.3176*	0.10	*0.4*	0	*79.4*	*52-119*	0.2924	*8.24*	*50*	

The following samples were analyzed in this batch: 1009543-04F 1009543-05F 1009543-07F 1009543-08F

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46110** Instrument ID **SV-4** Method: **SW8270**

MBLK Sample ID: **SBLKS2-100917-46110** Units: **µg/Kg** Analysis Date: **9/18/2010 01:43 PM**

Client ID: Run ID: **SV-4_100917A** SeqNo: **2092793** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	6.6								
2,4,5-Trichlorophenol	U	6.6								
2,4,6-Trichlorophenol	U	6.6								
2,4-Dichlorophenol	U	6.6								
2,4-Dimethylphenol	U	6.6								
2,4-Dinitrophenol	U	33								
2,4-Dinitrotoluene	U	6.6								
2,6-Dinitrotoluene	U	6.6								
2-Chloronaphthalene	U	6.6								
2-Chlorophenol	U	6.6								
2-Methylnaphthalene	U	6.6								
2-Methylphenol	U	6.6								
2-Nitroaniline	U	6.6								
2-Nitrophenol	U	6.6								
3&4-Methylphenol	U	6.6								
3,3'-Dichlorobenzidine	U	6.6								
3-Nitroaniline	U	6.6								
4,6-Dinitro-2-methylphenol	U	6.6								
4-Bromophenyl phenyl ether	U	6.6								
4-Chloro-3-methylphenol	U	6.6								
4-Chloroaniline	U	6.6								
4-Chlorophenyl phenyl ether	U	6.6								
4-Nitroaniline	U	6.6								
4-Nitrophenol	U	33								
Acenaphthene	U	6.6								
Acenaphthylene	U	6.6								
Acetophenone	U	6.6								
Anthracene	U	6.6								
Atrazine	U	6.6								
Benz(a)anthracene	U	6.6								
Benzaldehyde	U	6.6								
Benzo(a)pyrene	U	6.6								
Benzo(b)fluoranthene	U	6.6								
Benzo(g,h,i)perylene	U	6.6								
Benzo(k)fluoranthene	U	6.6								
Bis(2-chloroethoxy)methane	U	6.6								
Bis(2-chloroethyl)ether	U	6.6								
Bis(2-chloroisopropyl)ether	U	6.6								
Bis(2-ethylhexyl)phthalate	U	6.6								
Butyl benzyl phthalate	U	6.6								
Caprolactam	U	6.6								
Carbazole	U	6.6								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46110** Instrument ID **SV-4** Method: **SW8270**

Chrysene	U	6.6					
Di-n-butyl phthalate	U	6.6					
Di-n-octyl phthalate	U	6.6					
Dibenz(a,h)anthracene	U	6.6					
Dibenzofuran	U	6.6					
Diethyl phthalate	U	6.6					
Dimethyl phthalate	U	6.6					
Fluoranthene	U	6.6					
Fluorene	U	6.6					
Hexachlorobenzene	U	6.6					
Hexachlorobutadiene	U	6.6					
Hexachlorocyclopentadiene	U	6.6					
Hexachloroethane	U	6.6					
Indeno(1,2,3-cd)pyrene	U	6.6					
Isophorone	U	6.6					
N-Nitrosodi-n-propylamine	U	6.6					
N-Nitrosodiphenylamine	U	6.6					
Naphthalene	U	6.6					
Nitrobenzene	U	6.6					
Pentachlorophenol	U	6.6					
Phenanthrene	U	6.6					
Phenol	U	6.6					
Pyrene	U	6.6					
Surr: 2,4,6-Tribromophenol	*111.6*	6.6	*166.7*	0	*67*	*36-126*	0
Surr: 2-Fluorobiphenyl	*124.6*	6.6	*166.7*	0	*74.8*	*43-125*	0
Surr: 2-Fluorophenol	*128.3*	6.6	*166.7*	0	*77*	*37-125*	0
Surr: 4-Terphenyl-d14	*130*	6.6	*166.7*	0	*78*	*32-125*	0
Surr: Nitrobenzene-d5	*127.5*	6.6	*166.7*	0	*76.5*	*37-125*	0
Surr: Phenol-d6	*133.4*	6.6	*166.7*	0	*80*	*40-125*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46110** Instrument ID **SV-4** Method: **SW8270**

LCS Sample ID: **SLCSS2-100917-46110** Units: **µg/Kg** Analysis Date: **9/17/2010 08:20 PM**
Client ID: Run ID: **SV-4_100917A** SeqNo: **2092763** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	129.2	6.6	166.7	0	77.5	50-120	0			
2,4,5-Trichlorophenol	128.3	6.6	166.7	0	77	45-127	0			
2,4,6-Trichlorophenol	133.6	6.6	166.7	0	80.2	45-130	0			
2,4-Dichlorophenol	128.8	6.6	166.7	0	77.3	45-125	0			
2,4-Dimethylphenol	127.1	6.6	166.7	0	76.3	45-120	0			
2,4-Dinitrophenol	100.6	33	166.7	0	60.3	10-126	0			
2,4-Dinitrotoluene	129.3	6.6	166.7	0	77.6	50-130	0			
2,6-Dinitrotoluene	129.5	6.6	166.7	0	77.7	50-125	0			
2-Chloronaphthalene	134.1	6.6	166.7	0	80.4	50-145	0			
2-Chlorophenol	126.3	6.6	166.7	0	75.8	45-120	0			
2-Methylnaphthalene	124.6	6.6	166.7	0	74.8	50-120	0			
2-Methylphenol	132.4	6.6	166.7	0	79.4	45-120	0			
2-Nitroaniline	177.4	6.6	166.7	0	106	45-138	0			
2-Nitrophenol	124	6.6	166.7	0	74.4	45-125	0			
3&4-Methylphenol	133.8	6.6	166.7	0	80.3	45-120	0			
3,3'-Dichlorobenzidine	160.4	6.6	166.7	0	96.3	15-120	0			
3-Nitroaniline	135.3	6.6	166.7	0	81.2	40-120	0			
4,6-Dinitro-2-methylphenol	123.5	6.6	166.7	0	74.1	15-135	0			
4-Bromophenyl phenyl ether	133.7	6.6	166.7	0	80.2	50-125	0			
4-Chloro-3-methylphenol	128	6.6	166.7	0	76.8	45-130	0			
4-Chloroaniline	124.6	6.6	166.7	0	74.7	20-120	0			
4-Chlorophenyl phenyl ether	130.7	6.6	166.7	0	78.4	50-120	0			
4-Nitroaniline	136.6	6.6	166.7	0	82	50-127	0			
4-Nitrophenol	155.4	33	166.7	0	93.3	40-147	0			
Acenaphthene	126.2	6.6	166.7	0	75.7	50-120	0			
Acenaphthylene	125.9	6.6	166.7	0	75.5	50-120	0			
Acetophenone	123.8	6.6	166.7	0	74.3	50-120	0			
Anthracene	127.5	6.6	166.7	0	76.5	50-123	0			
Atrazine	135.8	6.6	166.7	0	81.5	29-148	0			
Benz(a)anthracene	131	6.6	166.7	0	78.6	50-131	0			
Benzaldehyde	46.57	6.6	166.7	0	27.9	22-129	0			
Benzo(a)pyrene	137.8	6.6	166.7	0	82.7	50-130	0			
Benzo(b)fluoranthene	149.6	6.6	166.7	0	89.7	50-137	0			
Benzo(g,h,i)perylene	130.6	6.6	166.7	0	78.3	50-130	0			
Benzo(k)fluoranthene	128.4	6.6	166.7	0	77	50-143	0			
Bis(2-chloroethoxy)methane	121.5	6.6	166.7	0	72.9	50-120	0			
Bis(2-chloroethyl)ether	94.63	6.6	166.7	0	56.8	45-127	0			
Bis(2-chloroisopropyl)ether	137.5	6.6	166.7	0	82.5	50-120	0			
Bis(2-ethylhexyl)phthalate	150.1	6.6	166.7	0	90	21-148	0			
Butyl benzyl phthalate	149.5	6.6	166.7	0	89.7	50-136	0			
Caprolactam	135.9	6.6	166.7	0	81.5	50-135	0			
Carbazole	139.8	6.6	166.7	0	83.9	50-143	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46110** Instrument ID **SV-4** Method: **SW8270**

Chrysene	138.1	6.6	166.7	0	82.8	50-130	0
Di-n-butyl phthalate	146.7	6.6	166.7	0	88	50-140	0
Di-n-octyl phthalate	145.2	6.6	166.7	0	87.1	50-140	0
Dibenz(a,h)anthracene	138.8	6.6	166.7	0	83.3	50-130	0
Dibenzofuran	130.8	6.6	166.7	0	78.5	50-125	0
Diethyl phthalate	124.3	6.6	166.7	0	74.6	50-125	0
Dimethyl phthalate	132.8	6.6	166.7	0	79.7	50-125	0
Fluoranthene	138.3	6.6	166.7	0	83	50-131	0
Fluorene	129.2	6.6	166.7	0	77.5	50-125	0
Hexachlorobenzene	126.2	6.6	166.7	0	75.7	50-124	0
Hexachlorobutadiene	124.4	6.6	166.7	0	74.6	50-125	0
Hexachlorocyclopentadiene	111.4	6.6	166.7	0	66.8	45-135	0
Hexachloroethane	124.8	6.6	166.7	0	74.9	45-125	0
Indeno(1,2,3-cd)pyrene	153.8	6.6	166.7	0	92.3	45-139	0
Isophorone	129.1	6.6	166.7	0	77.5	45-130	0
N-Nitrosodi-n-propylamine	130.9	6.6	166.7	0	78.5	45-120	0
N-Nitrosodiphenylamine	125.6	6.6	166.7	0	75.4	50-130	0
Naphthalene	125.7	6.6	166.7	0	75.4	50-125	0
Nitrobenzene	121.1	6.6	166.7	0	72.6	50-125	0
Pentachlorophenol	99.74	6.6	166.7	0	59.8	23-136	0
Phenanthrene	128.6	6.6	166.7	0	77.2	50-125	0
Phenol	155.8	6.6	166.7	0	93.5	45-130	0
Pyrene	137.2	6.6	166.7	0	82.3	45-130	0
Surr: 2,4,6-Tribromophenol	*121.8*	6.6	*166.7*	0	*73.1*	*36-126*	0
Surr: 2-Fluorobiphenyl	*116.7*	6.6	*166.7*	0	*70*	*43-125*	0
Surr: 2-Fluorophenol	*118.2*	6.6	*166.7*	0	*70.9*	*37-125*	0
Surr: 4-Terphenyl-d14	*119.7*	6.6	*166.7*	0	*71.8*	*32-125*	0
Surr: Nitrobenzene-d5	*116.8*	6.6	*166.7*	0	*70.1*	*37-125*	0
Surr: Phenol-d6	*122.9*	6.6	*166.7*	0	*73.8*	*40-125*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46110** Instrument ID **SV-4** Method: **SW8270**

LCSD Sample ID: **SLCSDS2-100917-46110** Units: **µg/Kg** Analysis Date: **9/17/2010 08:40 PM**
Client ID: Run ID: **SV-4_100917A** SeqNo: **2092764** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	130.3	6.6	166.7	0	78.2	50-120	129.2	0.817	30	
2,4,5-Trichlorophenol	132.2	6.6	166.7	0	79.3	45-127	128.3	3.01	30	
2,4,6-Trichlorophenol	117.9	6.6	166.7	0	70.8	45-130	133.6	12.5	30	
2,4-Dichlorophenol	128.4	6.6	166.7	0	77	45-125	128.8	0.28	30	
2,4-Dimethylphenol	117.6	6.6	166.7	0	70.5	45-120	127.1	7.8	30	
2,4-Dinitrophenol	85.93	33	166.7	0	51.6	10-126	100.6	15.7	30	
2,4-Dinitrotoluene	130.2	6.6	166.7	0	78.1	50-130	129.3	0.712	30	
2,6-Dinitrotoluene	136.4	6.6	166.7	0	81.9	50-125	129.5	5.17	30	
2-Chloronaphthalene	149.5	6.6	166.7	0	89.7	50-145	134.1	10.9	30	
2-Chlorophenol	112.2	6.6	166.7	0	67.3	45-120	126.3	11.8	30	
2-Methylnaphthalene	123.7	6.6	166.7	0	74.2	50-120	124.6	0.79	30	
2-Methylphenol	121.3	6.6	166.7	0	72.8	45-120	132.4	8.74	30	
2-Nitroaniline	172.5	6.6	166.7	0	104	45-138	177.4	2.8	30	
2-Nitrophenol	121.9	6.6	166.7	0	73.2	45-125	124	1.67	30	
3&4-Methylphenol	115.7	6.6	166.7	0	69.4	45-120	133.8	14.5	30	
3,3'-Dichlorobenzidine	173.4	6.6	166.7	0	104	15-120	160.4	7.74	30	
3-Nitroaniline	136.6	6.6	166.7	0	81.9	40-120	135.3	0.933	30	
4,6-Dinitro-2-methylphenol	111.9	6.6	166.7	0	67.1	15-135	123.5	9.87	30	
4-Bromophenyl phenyl ether	136.4	6.6	166.7	0	81.9	50-125	133.7	2.01	30	
4-Chloro-3-methylphenol	122.3	6.6	166.7	0	73.4	45-130	128	4.57	30	
4-Chloroaniline	117.3	6.6	166.7	0	70.4	20-120	124.6	6.05	30	
4-Chlorophenyl phenyl ether	130.2	6.6	166.7	0	78.1	50-120	130.7	0.37	30	
4-Nitroaniline	144.4	6.6	166.7	0	86.6	50-127	136.6	5.54	30	
4-Nitrophenol	143.7	33	166.7	0	86.2	40-147	155.4	7.86	30	
Acenaphthene	124	6.6	166.7	0	74.4	50-120	126.2	1.74	30	
Acenaphthylene	128.4	6.6	166.7	0	77	50-120	125.9	1.98	30	
Acetophenone	125.8	6.6	166.7	0	75.5	50-120	123.8	1.6	30	
Anthracene	135.7	6.6	166.7	0	81.4	50-123	127.5	6.28	30	
Atrazine	131.2	6.6	166.7	0	78.7	29-148	135.8	3.44	30	
Benz(a)anthracene	135	6.6	166.7	0	81	50-131	131	3	30	
Benzaldehyde	40.25	6.6	166.7	0	24.2	22-129	46.57	14.6	30	
Benzo(a)pyrene	138.9	6.6	166.7	0	83.3	50-130	137.8	0.783	30	
Benzo(b)fluoranthene	145.2	6.6	166.7	0	87.1	50-137	149.6	2.98	30	
Benzo(g,h,i)perylene	136.5	6.6	166.7	0	81.9	50-130	130.6	4.47	30	
Benzo(k)fluoranthene	132.3	6.6	166.7	0	79.4	50-143	128.4	2.96	30	
Bis(2-chloroethoxy)methane	127.6	6.6	166.7	0	76.6	50-120	121.5	4.92	30	
Bis(2-chloroethyl)ether	128.5	6.6	166.7	0	77.1	45-127	94.63	30.4	30	R
Bis(2-chloroisopropyl)ether	122.6	6.6	166.7	0	73.6	50-120	137.5	11.4	30	
Bis(2-ethylhexyl)phthalate	146.8	6.6	166.7	0	88.1	21-148	150.1	2.23	30	
Butyl benzyl phthalate	149.9	6.6	166.7	0	89.9	50-136	149.5	0.23	30	
Caprolactam	141.6	6.6	166.7	0	85	50-135	135.9	4.15	30	
Carbazole	147	6.6	166.7	0	88.2	50-143	139.8	5.07	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46110**	Instrument ID **SV-4**		Method: **SW8270**						
Chrysene	138.5	6.6	166.7	0	83.1	50-130	138.1	0.279	30
Di-n-butyl phthalate	148.6	6.6	166.7	0	89.2	50-140	146.7	1.3	30
Di-n-octyl phthalate	155.6	6.6	166.7	0	93.4	50-140	145.2	6.97	30
Dibenz(a,h)anthracene	136.8	6.6	166.7	0	82.1	50-130	138.8	1.44	30
Dibenzofuran	129.1	6.6	166.7	0	77.4	50-125	130.8	1.38	30
Diethyl phthalate	132.7	6.6	166.7	0	79.6	50-125	124.3	6.52	30
Dimethyl phthalate	128.8	6.6	166.7	0	77.3	50-125	132.8	3.12	30
Fluoranthene	143	6.6	166.7	0	85.8	50-131	138.3	3.33	30
Fluorene	127.8	6.6	166.7	0	76.7	50-125	129.2	1.06	30
Hexachlorobenzene	123.3	6.6	166.7	0	74	50-124	126.2	2.37	30
Hexachlorobutadiene	127.8	6.6	166.7	0	76.7	50-125	124.4	2.75	30
Hexachlorocyclopentadiene	101.2	6.6	166.7	0	60.7	45-135	111.4	9.57	30
Hexachloroethane	118.9	6.6	166.7	0	71.4	45-125	124.8	4.8	30
Indeno(1,2,3-cd)pyrene	151.3	6.6	166.7	0	90.8	45-139	153.8	1.64	30
Isophorone	129.2	6.6	166.7	0	77.5	45-130	129.1	0.0399	30
N-Nitrosodi-n-propylamine	111.3	6.6	166.7	0	66.8	45-120	130.9	16.2	30
N-Nitrosodiphenylamine	134.4	6.6	166.7	0	80.6	50-130	125.6	6.71	30
Naphthalene	124.7	6.6	166.7	0	74.8	50-125	125.7	0.834	30
Nitrobenzene	122.5	6.6	166.7	0	73.5	50-125	121.1	1.2	30
Pentachlorophenol	96.84	6.6	166.7	0	58.1	23-136	99.74	2.96	30
Phenanthrene	137.6	6.6	166.7	0	82.6	50-125	128.6	6.77	30
Phenol	144.6	6.6	166.7	0	86.8	45-130	155.8	7.44	30
Pyrene	135.1	6.6	166.7	0	81.1	45-130	137.2	1.53	30
Surr: 2,4,6-Tribromophenol	*124*	6.6	*166.7*	0	*74.4*	*36-126*	121.8	*1.73*	*30*
Surr: 2-Fluorobiphenyl	*121.6*	6.6	*166.7*	0	*73*	*43-125*	116.7	*4.12*	*30*
Surr: 2-Fluorophenol	*104.2*	6.6	*166.7*	0	*62.5*	*37-125*	118.2	*12.7*	*30*
Surr: 4-Terphenyl-d14	*125.2*	6.6	*166.7*	0	*75.1*	*32-125*	119.7	*4.48*	*30*
Surr: Nitrobenzene-d5	*124.7*	6.6	*166.7*	0	*74.8*	*37-125*	116.8	*6.5*	*30*
Surr: Phenol-d6	*113.4*	6.6	*166.7*	0	*68.1*	*40-125*	122.9	*8.04*	*30*

The following samples were analyzed in this batch:

1009543-01C	1009543-03C	1009543-06C
1009543-09C	1009543-12C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46128** Instrument ID **SV-6** Method: **SW8270**

MBLK Sample ID: **SBLKW1-100918-46128** Units: **µg/L** Analysis Date: **9/18/2010 12:56 PM**

Client ID: Run ID: **SV-6_100918A** SeqNo: **2093560** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	0.20								
2,4,5-Trichlorophenol	U	0.20								
2,4,6-Trichlorophenol	U	0.20								
2,4-Dichlorophenol	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrophenol	U	1.0								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Chlorophenol	U	0.20								
2-Methylnaphthalene	U	0.20								
2-Methylphenol	U	0.20								
2-Nitroaniline	U	0.20								
2-Nitrophenol	U	0.20								
3&4-Methylphenol	U	0.20								
3,3'-Dichlorobenzidine	U	0.20								
3-Nitroaniline	U	0.20								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Bromophenyl phenyl ether	U	0.20								
4-Chloro-3-methylphenol	U	0.20								
4-Chloroaniline	U	0.20								
4-Chlorophenyl phenyl ether	U	0.20								
4-Nitroaniline	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.20								
Acenaphthylene	U	0.20								
Acetophenone	U	0.20								
Anthracene	U	0.20								
Atrazine	U	0.20								
Benz(a)anthracene	U	0.20								
Benzaldehyde	U	0.20								
Benzo(a)pyrene	U	0.20								
Benzo(b)fluoranthene	U	0.20								
Benzo(g,h,i)perylene	U	0.20								
Benzo(k)fluoranthene	U	0.20								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-chloroethyl)ether	U	0.20								
Bis(2-chloroisopropyl)ether	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Butyl benzyl phthalate	U	0.20								
Caprolactam	U	0.20								
Carbazole	U	0.20								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **46128** Instrument ID **SV-6** Method: **SW8270**

Chrysene	U	0.20					
Di-n-butyl phthalate	U	0.20					
Di-n-octyl phthalate	U	0.20					
Dibenz(a,h)anthracene	U	0.20					
Dibenzofuran	U	0.20					
Diethyl phthalate	U	0.20					
Dimethyl phthalate	U	0.20					
Fluoranthene	U	0.20					
Fluorene	U	0.20					
Hexachlorobenzene	U	0.20					
Hexachlorobutadiene	U	0.20					
Hexachlorocyclopentadiene	U	0.20					
Hexachloroethane	U	0.20					
Indeno(1,2,3-cd)pyrene	U	0.20					
Isophorone	U	0.20					
N-Nitrosodi-n-propylamine	U	0.20					
N-Nitrosodiphenylamine	U	0.20					
Naphthalene	U	0.20					
Nitrobenzene	U	0.20					
Pentachlorophenol	U	0.20					
Phenanthrene	U	0.20					
Phenol	U	0.20					
Pyrene	U	0.20					
Surr: 2,4,6-Tribromophenol	*3.019*	0.20	*5*	0	*60.4*	*34-129*	0
Surr: 2-Fluorobiphenyl	*3.796*	0.20	*5*	0	*75.9*	*40-125*	0
Surr: 2-Fluorophenol	*3.357*	0.20	*5*	0	*67.1*	*20-120*	0
Surr: 4-Terphenyl-d14	*3.929*	0.20	*5*	0	*78.6*	*40-135*	0
Surr: Nitrobenzene-d5	*3.499*	0.20	*5*	0	*70*	*41-120*	0
Surr: Phenol-d6	*3.622*	0.20	*5*	0	*72.4*	*20-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46128** Instrument ID **SV-6** Method: **SW8270**

LCS Sample ID: **SLCSW1-100918-46128** Units: **µg/L** Analysis Date: **9/18/2010 01:16 PM**
Client ID: Run ID: **SV-6_100918A** SeqNo: **2093561** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	3.98	0.20	5	0	79.6	45-125	0			
2,4,5-Trichlorophenol	4.038	0.20	5	0	80.8	46-120	0			
2,4,6-Trichlorophenol	4.211	0.20	5	0	84.2	42-120	0			
2,4-Dichlorophenol	3.985	0.20	5	0	79.7	49-120	0			
2,4-Dimethylphenol	3.554	0.20	5	0	71.1	35-120	0			
2,4-Dinitrophenol	3.231	1.0	5	0	64.6	15-120	0			
2,4-Dinitrotoluene	4.435	0.20	5	0	88.7	50-122	0			
2,6-Dinitrotoluene	4.321	0.20	5	0	86.4	50-120	0			
2-Chloronaphthalene	4.24	0.20	5	0	84.8	50-120	0			
2-Chlorophenol	3.705	0.20	5	0	74.1	40-120	0			
2-Methylnaphthalene	3.955	0.20	5	0	79.1	50-120	0			
2-Methylphenol	3.705	0.20	5	0	74.1	45-120	0			
2-Nitroaniline	4.96	0.20	5	0	99.2	28-139	0			
2-Nitrophenol	4.082	0.20	5	0	81.6	40-120	0			
3&4-Methylphenol	3.718	0.20	5	0	74.4	35-120	0			
3,3'-Dichlorobenzidine	3.993	0.20	5	0	79.9	15-120	0			
3-Nitroaniline	4.038	0.20	5	0	80.8	30-120	0			
4,6-Dinitro-2-methylphenol	3.632	0.20	5	0	72.6	25-121	0			
4-Bromophenyl phenyl ether	3.924	0.20	5	0	78.5	45-120	0			
4-Chloro-3-methylphenol	3.882	0.20	5	0	77.6	47-120	0			
4-Chloroaniline	3.592	0.20	5	0	71.8	20-120	0			
4-Chlorophenyl phenyl ether	4.1	0.20	5	0	82	50-120	0			
4-Nitroaniline	4.41	0.20	5	0	88.2	30-133	0			
4-Nitrophenol	4.418	1.0	5	0	88.4	30-130	0			
Acenaphthene	3.907	0.20	5	0	78.1	45-120	0			
Acenaphthylene	4.014	0.20	5	0	80.3	47-120	0			
Acetophenone	3.715	0.20	5	0	74.3	40-120	0			
Anthracene	4.075	0.20	5	0	81.5	45-120	0			
Atrazine	4.017	0.20	5	0	80.3	40-130	0			
Benz(a)anthracene	4.345	0.20	5	0	86.9	40-120	0			
Benzaldehyde	0.8529	0.20	5	0	17.1	15-120	0			
Benzo(a)pyrene	4.333	0.20	5	0	86.7	45-120	0			
Benzo(b)fluoranthene	4.679	0.20	5	0	93.6	50-120	0			
Benzo(g,h,i)perylene	4.267	0.20	5	0	85.3	42-127	0			
Benzo(k)fluoranthene	4.393	0.20	5	0	87.9	45-127	0			
Bis(2-chloroethoxy)methane	3.789	0.20	5	0	75.8	45-120	0			
Bis(2-chloroethyl)ether	3.654	0.20	5	0	73.1	37-121	0			
Bis(2-chloroisopropyl)ether	3.208	0.20	5	0	64.2	40-120	0			
Bis(2-ethylhexyl)phthalate	4.852	0.20	5	0	97	40-139	0			
Butyl benzyl phthalate	4.709	0.20	5	0	94.2	47-123	0			
Caprolactam	3.673	0.20	5	0	73.5	35-134	0			
Carbazole	4.08	0.20	5	0	81.6	42-128	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46128**	Instrument ID **SV-6**			Method: **SW8270**			
Chrysene	4.359	0.20	5	0	87.2	43-120	0
Di-n-butyl phthalate	4.398	0.20	5	0	88	45-123	0
Di-n-octyl phthalate	4.687	0.20	5	0	93.7	45-129	0
Dibenz(a,h)anthracene	4.317	0.20	5	0	86.3	45-125	0
Dibenzofuran	4.105	0.20	5	0	82.1	50-120	0
Diethyl phthalate	4.126	0.20	5	0	82.5	41-120	0
Dimethyl phthalate	4.088	0.20	5	0	81.8	40-122	0
Fluoranthene	4.068	0.20	5	0	81.4	45-125	0
Fluorene	4.088	0.20	5	0	81.8	49-120	0
Hexachlorobenzene	3.961	0.20	5	0	79.2	48-120	0
Hexachlorobutadiene	3.793	0.20	5	0	75.9	40-120	0
Hexachlorocyclopentadiene	3.666	0.20	5	0	73.3	34-136	0
Hexachloroethane	3.592	0.20	5	0	71.8	40-120	0
Indeno(1,2,3-cd)pyrene	3.915	0.20	5	0	78.3	41-128	0
Isophorone	3.794	0.20	5	0	75.9	40-121	0
N-Nitrosodi-n-propylamine	3.607	0.20	5	0	72.1	40-120	0
N-Nitrosodiphenylamine	4.006	0.20	5	0	80.1	40-125	0
Naphthalene	3.995	0.20	5	0	79.9	45-120	0
Nitrobenzene	3.873	0.20	5	0	77.5	44-120	0
Pentachlorophenol	3.569	0.20	5	0	71.4	19-121	0
Phenanthrene	3.961	0.20	5	0	79.2	45-121	0
Phenol	3.739	0.20	5	0	74.8	20-124	0
Pyrene	4.419	0.20	5	0	88.4	40-130	0
Surr: 2,4,6-Tribromophenol	*3.705*	0.20	*5*	0	*74.1*	*34-129*	0
Surr: 2-Fluorobiphenyl	*3.859*	0.20	*5*	0	*77.2*	*40-125*	0
Surr: 2-Fluorophenol	*3.443*	0.20	*5*	0	*68.9*	*20-120*	0
Surr: 4-Terphenyl-d14	*3.847*	0.20	*5*	0	*76.9*	*40-135*	0
Surr: Nitrobenzene-d5	*3.622*	0.20	*5*	0	*72.4*	*41-120*	0
Surr: Phenol-d6	*3.534*	0.20	*5*	0	*70.7*	*20-120*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46128** Instrument ID **SV-6** Method: **SW8270**

LCSD Sample ID: **SLCSDW1-100918-46128** Units: **µg/L** Analysis Date: **9/18/2010 01:35 PM**
Client ID: Run ID: **SV-6_100918A** SeqNo: **2093562** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	4.149	0.20	5	0	83	45-125	3.98	4.15	20	
2,4,5-Trichlorophenol	4.292	0.20	5	0	85.8	46-120	4.038	6.1	20	
2,4,6-Trichlorophenol	4.153	0.20	5	0	83.1	42-120	4.211	1.4	20	
2,4-Dichlorophenol	4.2	0.20	5	0	84	49-120	3.985	5.26	20	
2,4-Dimethylphenol	3.683	0.20	5	0	73.7	35-120	3.554	3.58	20	
2,4-Dinitrophenol	3.658	1.0	5	0	73.2	15-120	3.231	12.4	20	
2,4-Dinitrotoluene	4.528	0.20	5	0	90.6	50-122	4.435	2.09	20	
2,6-Dinitrotoluene	4.496	0.20	5	0	89.9	50-120	4.321	3.97	20	
2-Chloronaphthalene	4.444	0.20	5	0	88.9	50-120	4.24	4.69	20	
2-Chlorophenol	4.116	0.20	5	0	82.3	40-120	3.705	10.5	20	
2-Methylnaphthalene	4.27	0.20	5	0	85.4	50-120	3.955	7.65	20	
2-Methylphenol	4.208	0.20	5	0	84.2	45-120	3.705	12.7	20	
2-Nitroaniline	5.165	0.20	5	0	103	28-139	4.96	4.05	20	
2-Nitrophenol	4.302	0.20	5	0	86	40-120	4.082	5.23	20	
3&4-Methylphenol	4.1	0.20	5	0	82	35-120	3.718	9.78	20	
3,3'-Dichlorobenzidine	4.243	0.20	5	0	84.9	15-120	3.993	6.07	20	
3-Nitroaniline	4.25	0.20	5	0	85	30-120	4.038	5.13	20	
4,6-Dinitro-2-methylphenol	4.3	0.20	5	0	86	25-121	3.632	16.8	20	
4-Bromophenyl phenyl ether	4.059	0.20	5	0	81.2	45-120	3.924	3.36	20	
4-Chloro-3-methylphenol	4.186	0.20	5	0	83.7	47-120	3.882	7.54	20	
4-Chloroaniline	3.848	0.20	5	0	77	20-120	3.592	6.89	20	
4-Chlorophenyl phenyl ether	4.047	0.20	5	0	80.9	50-120	4.1	1.31	20	
4-Nitroaniline	4.535	0.20	5	0	90.7	30-133	4.41	2.79	20	
4-Nitrophenol	4.509	1.0	5	0	90.2	30-130	4.418	2.04	20	
Acenaphthene	4.077	0.20	5	0	81.5	45-120	3.907	4.26	20	
Acenaphthylene	4.193	0.20	5	0	83.9	47-120	4.014	4.35	20	
Acetophenone	3.95	0.20	5	0	79	40-120	3.715	6.13	20	
Anthracene	4.404	0.20	5	0	88.1	45-120	4.075	7.75	20	
Atrazine	4.263	0.20	5	0	85.3	40-130	4.017	5.93	20	
Benz(a)anthracene	4.462	0.20	5	0	89.2	40-120	4.345	2.66	20	
Benzaldehyde	0.9153	0.20	5	0	18.3	15-120	0.8529	7.06	20	
Benzo(a)pyrene	4.63	0.20	5	0	92.6	45-120	4.333	6.62	20	
Benzo(b)fluoranthene	4.67	0.20	5	0	93.4	50-120	4.679	0.191	20	
Benzo(g,h,i)perylene	4.5	0.20	5	0	90	42-127	4.267	5.31	20	
Benzo(k)fluoranthene	4.99	0.20	5	0	99.8	45-127	4.393	12.7	20	
Bis(2-chloroethoxy)methane	4.057	0.20	5	0	81.1	45-120	3.789	6.84	20	
Bis(2-chloroethyl)ether	4.179	0.20	5	0	83.6	37-121	3.654	13.4	20	
Bis(2-chloroisopropyl)ether	3.61	0.20	5	0	72.2	40-120	3.208	11.8	20	
Bis(2-ethylhexyl)phthalate	5.026	0.20	5	0	101	40-139	4.852	3.54	20	
Butyl benzyl phthalate	4.816	0.20	5	0	96.3	47-123	4.709	2.25	20	
Caprolactam	4.184	0.20	5	0	83.7	35-134	3.673	13	20	
Carbazole	4.314	0.20	5	0	86.3	42-128	4.08	5.59	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46128** Instrument ID **SV-6** Method: **SW8270**

Chrysene	4.406	0.20	5	0	88.1	43-120	4.359	1.07	20
Di-n-butyl phthalate	4.644	0.20	5	0	92.9	45-123	4.398	5.44	20
Di-n-octyl phthalate	4.885	0.20	5	0	97.7	45-129	4.687	4.13	20
Dibenz(a,h)anthracene	4.583	0.20	5	0	91.7	45-125	4.317	5.97	20
Dibenzofuran	4.233	0.20	5	0	84.7	50-120	4.105	3.07	20
Diethyl phthalate	4.231	0.20	5	0	84.6	41-120	4.126	2.51	20
Dimethyl phthalate	4.253	0.20	5	0	85.1	40-122	4.088	3.96	20
Fluoranthene	4.372	0.20	5	0	87.4	45-125	4.068	7.22	20
Fluorene	4.159	0.20	5	0	83.2	49-120	4.088	1.7	20
Hexachlorobenzene	4.153	0.20	5	0	83.1	48-120	3.961	4.75	20
Hexachlorobutadiene	4.076	0.20	5	0	81.5	40-120	3.793	7.2	20
Hexachlorocyclopentadiene	3.912	0.20	5	0	78.2	34-136	3.666	6.51	20
Hexachloroethane	4.103	0.20	5	0	82.1	40-120	3.592	13.3	20
Indeno(1,2,3-cd)pyrene	4.441	0.20	5	0	88.8	41-128	3.915	12.6	20
Isophorone	4.09	0.20	5	0	81.8	40-121	3.794	7.51	20
N-Nitrosodi-n-propylamine	4.025	0.20	5	0	80.5	40-120	3.607	11	20
N-Nitrosodiphenylamine	4.284	0.20	5	0	85.7	40-125	4.006	6.69	20
Naphthalene	4.218	0.20	5	0	84.4	45-120	3.995	5.41	20
Nitrobenzene	4.082	0.20	5	0	81.6	44-120	3.873	5.25	20
Pentachlorophenol	3.641	0.20	5	0	72.8	19-121	3.569	2	20
Phenanthrene	4.268	0.20	5	0	85.4	45-121	3.961	7.46	20
Phenol	4.108	0.20	5	0	82.2	20-124	3.739	9.39	20
Pyrene	4.52	0.20	5	0	90.4	40-130	4.419	2.27	20
Surr: 2,4,6-Tribromophenol	*3.866*	0.20	*5*	0	*77.3*	*34-129*	3.705	*4.25*	*0*
Surr: 2-Fluorobiphenyl	*4.043*	0.20	*5*	0	*80.9*	*40-125*	3.859	*4.65*	*0*
Surr: 2-Fluorophenol	*3.869*	0.20	*5*	0	*77.4*	*20-120*	3.443	*11.7*	*0*
Surr: 4-Terphenyl-d14	*3.955*	0.20	*5*	0	*79.1*	*40-135*	3.847	*2.78*	*0*
Surr: Nitrobenzene-d5	*3.83*	0.20	*5*	0	*76.6*	*41-120*	3.622	*5.59*	*0*
Surr: Phenol-d6	*3.886*	0.20	*5*	0	*77.7*	*20-120*	3.534	*9.5*	*0*

The following samples were analyzed in this batch:

1009543-02E	1009543-04E	1009543-05E
1009543-07E	1009543-08E	1009543-10E
1009543-11E	1009543-13E	1009543-14E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46131** Instrument ID **SV-7** Method: **SW8270SIM**

MBLK Sample ID: **ABLKW1-100918-46131** Units: **ug/L** Analysis Date: **9/19/2010 08:10 PM**

Client ID: Run ID: **SV-7_100919B** SeqNo: **2094478** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	0.10								
2-Methylnaphthalene	U	0.10								
2-Methylnaphthalene-d10	U	0.10								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Benzo(b)fluoranthene	U	0.10								
Benzo(e)pyrene	U	0.10								
Benzo(g,h,i)perylene	U	0.10								
Benzo(k)fluoranthene	U	0.10								
C1-Chrysenes	U	0.10								
C1-Fluoranthenes/Pyrenes	U	0.10								
C1-Fluorenes	U	0.10								
C1-Phenanthrenes/anthracenes	U	0.10								
C2-Chrysenes	U	0.10								
C2-Fluoranthenes/Pyrenes	U	0.10								
C2-Fluorenes	U	0.10								
C2-naphthalenes	U	0.10								
C2-Phenanthrenes/anthracenes	U	0.10								
C3-Chrysenes	U	0.10								
C3-Fluoranthenes/Pyrenes	U	0.10								
C3-Fluorenes	U	0.10								
C3-naphthalenes	U	0.10								
C3-Phenanthrenes/anthracenes	U	0.10								
C4-Chrysenes	U	0.10								
C4-Naphthalenes	U	0.10								
C4-Phenanthrenes/anthracenes	U	0.10								
Chrysene	U	0.10								
Dibenz(a,h)anthracene	U	0.10								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Indeno(1,2,3-cd)pyrene	U	0.10								
Naphthalene	U	0.10								
Perylene	U	0.10								
Phenanthrene	U	0.10								
Pyrene	U	0.10								
Surr: Acenaphthylene-d8	*0.2922*	0.10	*0.4*	0	*73.1*	*41-107*	0			
Surr: Anthracene-d10	*0.3584*	0.10	*0.4*	0	*89.6*	*44-110*	0			
Surr: Benzo(a)pyrene-d12	*0.2731*	0.10	*0.4*	0	*68.3*	*32-121*	0			
Surr: Pyrene-d10	*0.3015*	0.10	*0.4*	0	*75.4*	*52-119*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46131** Instrument ID **SV-7** Method: **SW8270SIM**

LCS Sample ID: **ALCSW1-100918-46131** Units: **ug/L** Analysis Date: **9/19/2010 07:21 PM**
Client ID: Run ID: **SV-7_100919B** SeqNo: **2094476** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene-d10	0.2779	0.10	0.4	0	69.5	50-150	0			
Surr: Acenaphthylene-d8	*0.2829*	0.10	*0.4*	0	*70.7*	*41-107*	0			
Surr: Anthracene-d10	*0.334*	0.10	*0.4*	0	*83.5*	*44-110*	0			
Surr: Benzo(a)pyrene-d12	*0.2619*	0.10	*0.4*	0	*65.5*	*32-121*	0			
Surr: Pyrene-d10	*0.284*	0.10	*0.4*	0	*71*	*52-119*	0			

LCSD Sample ID: **ALCSDW1-100918-46131** Units: **ug/L** Analysis Date: **9/19/2010 07:45 PM**
Client ID: Run ID: **SV-7_100919B** SeqNo: **2094477** Prep Date: **9/18/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene-d10	0.242	0.10	0.4	0	60.5	50-150	0.2779	13.8	50	
Surr: Acenaphthylene-d8	*0.2488*	0.10	*0.4*	0	*62.2*	*41-107*	0.2829	*12.8*	*50*	
Surr: Anthracene-d10	*0.3338*	0.10	*0.4*	0	*83.4*	*44-110*	0.334	*0.0812*	*50*	
Surr: Benzo(a)pyrene-d12	*0.204*	0.10	*0.4*	0	*51*	*32-121*	0.2619	*24.9*	*50*	
Surr: Pyrene-d10	*0.2817*	0.10	*0.4*	0	*70.4*	*52-119*	0.284	*0.822*	*50*	

The following samples were analyzed in this batch:

1009543-02F	1009543-10F	1009543-11F
1009543-13F	1009543-14F	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97323** Instrument ID **VOA2** Method: **SW8260**

MBLK Sample ID: **VBLKW-091710-R97323** Units: **µg/L** Analysis Date: **9/17/2010 07:48 PM**

Client ID: Run ID: **VOA2_100917A** SeqNo: **2092662** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Dichloromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
o-Xylene	U	5.0								
Styrene	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R97323** Instrument ID **VOA2** Method: **SW8260**

Tetrachloroethene	U	5.0					
Toluene	U	5.0					
trans-1,2-Dichloroethene	U	5.0					
trans-1,3-Dichloropropene	U	5.0					
Trichloroethene	U	5.0					
Trichlorofluoromethane	U	5.0					
Vinyl chloride	U	2.0					
Xylenes, Total	U	15					
Surr: 1,2-Dichloroethane-d4	*49.27*	5.0	*50*	0	*98.5*	*70-125*	0
Surr: 4-Bromofluorobenzene	*46.79*	5.0	*50*	0	*93.6*	*72-125*	0
Surr: Dibromofluoromethane	*49.97*	5.0	*50*	0	*99.9*	*71-125*	0
Surr: Toluene-d8	*49.39*	5.0	*50*	0	*98.8*	*75-125*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97323** Instrument ID **VOA2** Method: **SW8260**

LCS Sample ID: **VLCSW-091710-R97323** Units: **µg/L** Analysis Date: **9/17/2010 06:13 PM**
Client ID: Run ID: **VOA2_100917A** SeqNo: **2092660** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.57	5.0	50	0	95.1	80-120	0			
1,1,2,2-Tetrachloroethane	50.27	5.0	50	0	101	72-120	0			
1,1,2-Trichlor-1,2,2-trifluoroethane	43.07	5.0	50	0	86.1	73-123	0			
1,1,2-Trichloroethane	49.01	5.0	50	0	98	80-120	0			
1,1-Dichloroethane	48.47	5.0	50	0	96.9	76-120	0			
1,1-Dichloroethene	50.53	5.0	50	0	101	73-124	0			
1,2,4-Trichlorobenzene	50.63	5.0	50	0	101	80-120	0			
1,2-Dibromo-3-chloropropane	50.26	5.0	50	0	101	65-125	0			
1,2-Dibromoethane	49.88	5.0	50	0	99.8	80-120	0			
1,2-Dichlorobenzene	49.05	5.0	50	0	98.1	80-120	0			
1,2-Dichloroethane	44.93	5.0	50	0	89.9	78-120	0			
1,2-Dichloropropane	50.59	5.0	50	0	101	80-120	0			
1,3-Dichlorobenzene	49.92	5.0	50	0	99.8	80-120	0			
1,4-Dichlorobenzene	48.34	5.0	50	0	96.7	80-120	0			
2-Butanone	94.36	10	100	0	94.4	58-132	0			
2-Hexanone	99.95	10	100	0	100	61-130	0			
4-Methyl-2-pentanone	101.6	10	100	0	102	65-127	0			
Acetone	99.96	10	100	0	100	59-137	0			
Benzene	49.56	5.0	50	0	99.1	73-121	0			
Bromodichloromethane	50.68	5.0	50	0	101	80-120	0			
Bromoform	47.17	5.0	50	0	94.3	79-120	0			
Bromomethane	47.74	5.0	50	0	95.5	66-137	0			
Carbon disulfide	105	10	100	0	105	68-141	0			
Carbon tetrachloride	41.94	5.0	50	0	83.9	75-124	0			
Chlorobenzene	49.03	5.0	50	0	98.1	80-120	0			
Chloroethane	48.41	5.0	50	0	96.8	76-121	0			
Chloroform	47.4	5.0	50	0	94.8	80-120	0			
Chloromethane	47.87	5.0	50	0	95.7	67-123	0			
cis-1,2-Dichloroethene	50.73	5.0	50	0	101	78-120	0			
cis-1,3-Dichloropropene	49.03	5.0	50	0	98.1	80-120	0			
Cyclohexane	42.29	5.0	50	0	84.6	66-125	0			
Dibromochloromethane	52.13	5.0	50	0	104	80-120	0			
Dichlorodifluoromethane	42.6	5.0	50	0	85.2	63-125	0			
Dichloromethane	48.14	10	50	0	96.3	65-133	0			
Ethylbenzene	50.08	5.0	50	0	100	80-120	0			
Isopropylbenzene	45.07	5.0	50	0	90.1	80-120	0			
m,p-Xylene	100.2	10	100	0	100	78-121	0			
Methyl acetate	48.23	5.0	50	0	96.5	60-130	0			
Methyl tert-butyl ether	50.73	5.0	50	0	101	73-121	0			
Methylcyclohexane	42.04	5.0	50	0	84.1	75-122	0			
o-Xylene	49.27	5.0	50	0	98.5	80-120	0			
Styrene	50.49	5.0	50	0	101	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97323**	Instrument ID **VOA2**		Method: **SW8260**				
Tetrachloroethene	47.6	5.0	50	0	95.2	79-120	0
Toluene	49.38	5.0	50	0	98.8	80-120	0
trans-1,2-Dichloroethene	50.88	5.0	50	0	102	78-120	0
trans-1,3-Dichloropropene	47.87	5.0	50	0	95.7	80-120	0
Trichloroethene	50.34	5.0	50	0	101	80-120	0
Trichlorofluoromethane	46.51	5.0	50	0	93	72-130	0
Vinyl chloride	49.57	2.0	50	0	99.1	70-127	0
Xylenes, Total	149.5	15	150	0	99.7	80-120	0
Surr: 1,2-Dichloroethane-d4	*45.43*	5.0	*50*	0	*90.9*	*70-125*	0
Surr: 4-Bromofluorobenzene	*48.71*	5.0	*50*	0	*97.4*	*72-125*	0
Surr: Dibromofluoromethane	*48.11*	5.0	*50*	0	*96.2*	*71-125*	0
Surr: Toluene-d8	*49.59*	5.0	*50*	0	*99.2*	*75-125*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97323** Instrument ID **VOA2** Method: **SW8260**

LCSD Sample ID: **VLCSDW-091710-R97323** Units: **µg/L** Analysis Date: **9/17/2010 06:37 PM**

Client ID: Run ID: **VOA2_100917A** SeqNo: **2092661** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.32	5.0	50	0	94.6	80-120	47.57	0.523	20	
1,1,2,2-Tetrachloroethane	50.91	5.0	50	0	102	72-120	50.27	1.26	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	41.27	5.0	50	0	82.5	73-123	43.07	4.26	20	
1,1,2-Trichloroethane	49.4	5.0	50	0	98.8	80-120	49.01	0.792	20	
1,1-Dichloroethane	48.21	5.0	50	0	96.4	76-120	48.47	0.538	20	
1,1-Dichloroethene	49.26	5.0	50	0	98.5	73-124	50.53	2.55	20	
1,2,4-Trichlorobenzene	50.95	5.0	50	0	102	80-120	50.63	0.627	20	
1,2-Dibromo-3-chloropropane	49.83	5.0	50	0	99.7	65-125	50.26	0.862	20	
1,2-Dibromoethane	51.36	5.0	50	0	103	80-120	49.88	2.92	20	
1,2-Dichlorobenzene	49.95	5.0	50	0	99.9	80-120	49.05	1.82	20	
1,2-Dichloroethane	46.06	5.0	50	0	92.1	78-120	44.93	2.48	20	
1,2-Dichloropropane	50.34	5.0	50	0	101	80-120	50.59	0.496	20	
1,3-Dichlorobenzene	49.83	5.0	50	0	99.7	80-120	49.92	0.194	20	
1,4-Dichlorobenzene	49.13	5.0	50	0	98.3	80-120	48.34	1.62	20	
2-Butanone	92.88	10	100	0	92.9	58-132	94.36	1.57	20	
2-Hexanone	104.7	10	100	0	105	61-130	99.95	4.66	20	
4-Methyl-2-pentanone	103.4	10	100	0	103	65-127	101.6	1.8	20	
Acetone	99.83	10	100	0	99.8	59-137	99.96	0.125	20	
Benzene	50.07	5.0	50	0	100	73-121	49.56	1.01	20	
Bromodichloromethane	51.12	5.0	50	0	102	80-120	50.68	0.855	20	
Bromoform	49.01	5.0	50	0	98	79-120	47.17	3.82	20	
Bromomethane	47.62	5.0	50	0	95.2	66-137	47.74	0.258	20	
Carbon disulfide	103.4	10	100	0	103	68-141	105	1.54	20	
Carbon tetrachloride	42.26	5.0	50	0	84.5	75-124	41.94	0.772	20	
Chlorobenzene	49.8	5.0	50	0	99.6	80-120	49.03	1.57	20	
Chloroethane	48	5.0	50	0	96	76-121	48.41	0.862	20	
Chloroform	46.74	5.0	50	0	93.5	80-120	47.4	1.41	20	
Chloromethane	47.18	5.0	50	0	94.4	67-123	47.87	1.46	20	
cis-1,2-Dichloroethene	49.36	5.0	50	0	98.7	78-120	50.73	2.73	20	
cis-1,3-Dichloropropene	50.29	5.0	50	0	101	80-120	49.03	2.52	20	
Cyclohexane	41.05	5.0	50	0	82.1	66-125	42.29	2.97	20	
Dibromochloromethane	53.15	5.0	50	0	106	80-120	52.13	1.93	20	
Dichlorodifluoromethane	41.66	5.0	50	0	83.3	63-125	42.6	2.23	20	
Dichloromethane	48.34	10	50	0	96.7	65-133	48.14	0.425	20	
Ethylbenzene	51.33	5.0	50	0	103	80-120	50.08	2.45	20	
Isopropylbenzene	45.99	5.0	50	0	92	80-120	45.07	2.03	20	
m,p-Xylene	102.4	10	100	0	102	78-121	100.2	2.12	20	
Methyl acetate	47.17	5.0	50	0	94.3	60-130	48.23	2.23	20	
Methyl tert-butyl ether	50.39	5.0	50	0	101	73-121	50.73	0.673	20	
Methylcyclohexane	41.88	5.0	50	0	83.8	75-122	42.04	0.381	20	
o-Xylene	49.51	5.0	50	0	99	80-120	49.27	0.489	20	
Styrene	51.5	5.0	50	0	103	80-120	50.49	1.98	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97323**	Instrument ID **VOA2**		Method: **SW8260**						
Tetrachloroethene	47.73	5.0	50	0	95.5	79-120	47.6	0.282	20
Toluene	50.41	5.0	50	0	101	80-120	49.38	2.07	20
trans-1,2-Dichloroethene	49.62	5.0	50	0	99.2	78-120	50.88	2.5	20
trans-1,3-Dichloropropene	49.64	5.0	50	0	99.3	80-120	47.87	3.64	20
Trichloroethene	50.3	5.0	50	0	101	80-120	50.34	0.0857	20
Trichlorofluoromethane	45.31	5.0	50	0	90.6	72-130	46.51	2.61	20
Vinyl chloride	48.43	2.0	50	0	96.9	70-127	49.57	2.33	20
Xylenes, Total	151.9	15	150	0	101	80-120	149.5	1.59	20
Surr: 1,2-Dichloroethane-d4	*45.1*	5.0	*50*	0	*90.2*	*70-125*	45.43	*0.709*	*20*
Surr: 4-Bromofluorobenzene	*49.06*	5.0	*50*	0	*98.1*	*72-125*	48.71	*0.712*	*20*
Surr: Dibromofluoromethane	*48.54*	5.0	*50*	0	*97.1*	*71-125*	48.11	*0.893*	*20*
Surr: Toluene-d8	*50.3*	5.0	*50*	0	*101*	*75-125*	49.59	*1.43*	*20*

The following samples were analyzed in this batch: 1009543-04A 1009543-07A 1009543-10A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97329** Instrument ID **VOA2** Method: **SW8260**

MBLK Sample ID: **VBLKW-091810-R97329** Units: **µg/L** Analysis Date: **9/18/2010 02:36 PM**

Client ID: Run ID: **VOA2_100918A** SeqNo: **2093146** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Dichloromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
o-Xylene	U	5.0								
Styrene	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R97329** Instrument ID **VOA2** Method: **SW8260**

Tetrachloroethene	U	5.0					
Toluene	U	5.0					
trans-1,2-Dichloroethene	U	5.0					
trans-1,3-Dichloropropene	U	5.0					
Trichloroethene	U	5.0					
Trichlorofluoromethane	U	5.0					
Vinyl chloride	U	2.0					
Xylenes, Total	U	15					
Surr: 1,2-Dichloroethane-d4	*54.25*	5.0	*50*	0	*108*	*70-125*	0
Surr: 4-Bromofluorobenzene	*48.15*	5.0	*50*	0	*96.3*	*72-125*	0
Surr: Dibromofluoromethane	*52.09*	5.0	*50*	0	*104*	*71-125*	0
Surr: Toluene-d8	*50.29*	5.0	*50*	0	*101*	*75-125*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97329** Instrument ID **VOA2** Method: **SW8260**

LCS Sample ID: **VLCSW-091810-R97329** Units: **µg/L** Analysis Date: **9/18/2010 01:00 PM**

Client ID: Run ID: **VOA2_100918A** SeqNo: **2093144** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.57	5.0	50	0	105	80-120	0			
1,1,2,2-Tetrachloroethane	48.89	5.0	50	0	97.8	72-120	0			
1,1,2-Trichlor-1,2,2-trifluoroethane	47.9	5.0	50	0	95.8	73-123	0			
1,1,2-Trichloroethane	48.12	5.0	50	0	96.2	80-120	0			
1,1-Dichloroethane	50.84	5.0	50	0	102	76-120	0			
1,1-Dichloroethene	53.09	5.0	50	0	106	73-124	0			
1,2,4-Trichlorobenzene	52.66	5.0	50	0	105	80-120	0			
1,2-Dibromo-3-chloropropane	49.41	5.0	50	0	98.8	65-125	0			
1,2-Dibromoethane	50.17	5.0	50	0	100	80-120	0			
1,2-Dichlorobenzene	51.11	5.0	50	0	102	80-120	0			
1,2-Dichloroethane	49.31	5.0	50	0	98.6	78-120	0			
1,2-Dichloropropane	51.61	5.0	50	0	103	80-120	0			
1,3-Dichlorobenzene	51.49	5.0	50	0	103	80-120	0			
1,4-Dichlorobenzene	50.55	5.0	50	0	101	80-120	0			
2-Butanone	94.26	10	100	0	94.3	58-132	0			
2-Hexanone	101.9	10	100	0	102	61-130	0			
4-Methyl-2-pentanone	99.48	10	100	0	99.5	65-127	0			
Acetone	109.4	10	100	0	109	59-137	0			
Benzene	50.3	5.0	50	0	101	73-121	0			
Bromodichloromethane	53.54	5.0	50	0	107	80-120	0			
Bromoform	48.42	5.0	50	0	96.8	79-120	0			
Bromomethane	52.32	5.0	50	0	105	66-137	0			
Carbon disulfide	109.4	10	100	0	109	68-141	0			
Carbon tetrachloride	47.84	5.0	50	0	95.7	75-124	0			
Chlorobenzene	49.88	5.0	50	0	99.8	80-120	0			
Chloroethane	51.33	5.0	50	0	103	76-121	0			
Chloroform	50.36	5.0	50	0	101	80-120	0			
Chloromethane	51.1	5.0	50	0	102	67-123	0			
cis-1,2-Dichloroethene	49.36	5.0	50	0	98.7	78-120	0			
cis-1,3-Dichloropropene	49.34	5.0	50	0	98.7	80-120	0			
Cyclohexane	46.44	5.0	50	0	92.9	66-125	0			
Dibromochloromethane	52.79	5.0	50	0	106	80-120	0			
Dichlorodifluoromethane	48.71	5.0	50	0	97.4	63-125	0			
Dichloromethane	49.37	10	50	0	98.7	65-133	0			
Ethylbenzene	53.29	5.0	50	0	107	80-120	0			
Isopropylbenzene	49.5	5.0	50	0	99	80-120	0			
m,p-Xylene	105.8	10	100	0	106	78-121	0			
Methyl acetate	48.52	5.0	50	0	97	60-130	0			
Methyl tert-butyl ether	51.74	5.0	50	0	103	73-121	0			
Methylcyclohexane	47.32	5.0	50	0	94.6	75-122	0			
o-Xylene	51.51	5.0	50	0	103	80-120	0			
Styrene	52.63	5.0	50	0	105	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97329**	Instrument ID **VOA2**		Method: **SW8260**				
Tetrachloroethene	50.67	5.0	50	0	101	79-120	0
Toluene	50.58	5.0	50	0	101	80-120	0
trans-1,2-Dichloroethene	51.35	5.0	50	0	103	78-120	0
trans-1,3-Dichloropropene	48.51	5.0	50	0	97	80-120	0
Trichloroethene	51.4	5.0	50	0	103	80-120	0
Trichlorofluoromethane	53.67	5.0	50	0	107	72-130	0
Vinyl chloride	53.54	2.0	50	0	107	70-127	0
Xylenes, Total	157.3	15	150	0	105	80-120	0
Surr: 1,2-Dichloroethane-d4	*49.63*	5.0	*50*	0	*99.3*	*70-125*	0
Surr: 4-Bromofluorobenzene	*50.09*	5.0	*50*	0	*100*	*72-125*	0
Surr: Dibromofluoromethane	*49.97*	5.0	*50*	0	*99.9*	*71-125*	0
Surr: Toluene-d8	*49.49*	5.0	*50*	0	*99*	*75-125*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97329** Instrument ID **VOA2** Method: **SW8260**

LCSD Sample ID: **VLCSDW-091810-R97329** Units: **µg/L** Analysis Date: **9/18/2010 01:24 PM**

Client ID: Run ID: **VOA2_100918A** SeqNo: **2093145** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	54.14	5.0	50	0	108	80-120	52.57	2.94	20	
1,1,2,2-Tetrachloroethane	49.81	5.0	50	0	99.6	72-120	48.89	1.87	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	49.84	5.0	50	0	99.7	73-123	47.9	3.98	20	
1,1,2-Trichloroethane	48.55	5.0	50	0	97.1	80-120	48.12	0.898	20	
1,1-Dichloroethane	51.57	5.0	50	0	103	76-120	50.84	1.43	20	
1,1-Dichloroethene	55.09	5.0	50	0	110	73-124	53.09	3.7	20	
1,2,4-Trichlorobenzene	51.32	5.0	50	0	103	80-120	52.66	2.57	20	
1,2-Dibromo-3-chloropropane	50.2	5.0	50	0	100	65-125	49.41	1.59	20	
1,2-Dibromoethane	50.13	5.0	50	0	100	80-120	50.17	0.0797	20	
1,2-Dichlorobenzene	50.35	5.0	50	0	101	80-120	51.11	1.5	20	
1,2-Dichloroethane	49.1	5.0	50	0	98.2	78-120	49.31	0.43	20	
1,2-Dichloropropane	51.28	5.0	50	0	103	80-120	51.61	0.646	20	
1,3-Dichlorobenzene	51.03	5.0	50	0	102	80-120	51.49	0.882	20	
1,4-Dichlorobenzene	49.73	5.0	50	0	99.5	80-120	50.55	1.64	20	
2-Butanone	92.36	10	100	0	92.4	58-132	94.26	2.04	20	
2-Hexanone	101.6	10	100	0	102	61-130	101.9	0.328	20	
4-Methyl-2-pentanone	100.8	10	100	0	101	65-127	99.48	1.27	20	
Acetone	112.5	10	100	0	112	59-137	109.4	2.77	20	
Benzene	50.63	5.0	50	0	101	73-121	50.3	0.645	20	
Bromodichloromethane	53.72	5.0	50	0	107	80-120	53.54	0.326	20	
Bromoform	47.88	5.0	50	0	95.8	79-120	48.42	1.12	20	
Bromomethane	52.35	5.0	50	0	105	66-137	52.32	0.0724	20	
Carbon disulfide	112.6	10	100	0	113	68-141	109.4	2.86	20	
Carbon tetrachloride	49.29	5.0	50	0	98.6	75-124	47.84	2.99	20	
Chlorobenzene	50.53	5.0	50	0	101	80-120	49.88	1.29	20	
Chloroethane	51.96	5.0	50	0	104	76-121	51.33	1.2	20	
Chloroform	50.23	5.0	50	0	100	80-120	50.36	0.253	20	
Chloromethane	52.01	5.0	50	0	104	67-123	51.1	1.76	20	
cis-1,2-Dichloroethene	49.55	5.0	50	0	99.1	78-120	49.36	0.402	20	
cis-1,3-Dichloropropene	50.5	5.0	50	0	101	80-120	49.34	2.32	20	
Cyclohexane	47.76	5.0	50	0	95.5	66-125	46.44	2.8	20	
Dibromochloromethane	54.14	5.0	50	0	108	80-120	52.79	2.51	20	
Dichlorodifluoromethane	50.94	5.0	50	0	102	63-125	48.71	4.47	20	
Dichloromethane	50.15	10	50	0	100	65-133	49.37	1.57	20	
Ethylbenzene	52.75	5.0	50	0	106	80-120	53.29	1.01	20	
Isopropylbenzene	48.84	5.0	50	0	97.7	80-120	49.5	1.35	20	
m,p-Xylene	106.3	10	100	0	106	78-121	105.8	0.513	20	
Methyl acetate	49.03	5.0	50	0	98.1	60-130	48.52	1.06	20	
Methyl tert-butyl ether	51.35	5.0	50	0	103	73-121	51.74	0.757	20	
Methylcyclohexane	47.71	5.0	50	0	95.4	75-122	47.32	0.828	20	
o-Xylene	51.02	5.0	50	0	102	80-120	51.51	0.964	20	
Styrene	52.34	5.0	50	0	105	80-120	52.63	0.551	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97329**	Instrument ID **VOA2**		Method: **SW8260**						
Tetrachloroethene	51.61	5.0	50	0	103	79-120	50.67	1.83	20
Toluene	51.2	5.0	50	0	102	80-120	50.58	1.22	20
trans-1,2-Dichloroethene	52.98	5.0	50	0	106	78-120	51.35	3.11	20
trans-1,3-Dichloropropene	49.82	5.0	50	0	99.6	80-120	48.51	2.66	20
Trichloroethene	52.53	5.0	50	0	105	80-120	51.4	2.16	20
Trichlorofluoromethane	55.7	5.0	50	0	111	72-130	53.67	3.71	20
Vinyl chloride	54.73	2.0	50	0	109	70-127	53.54	2.2	20
Xylenes, Total	157.3	15	150	0	105	80-120	157.3	0.0315	20
Surr: 1,2-Dichloroethane-d4	*48.23*	5.0	*50*	0	*96.5*	*70-125*	49.63	*2.86*	*20*
Surr: 4-Bromofluorobenzene	*49.52*	5.0	*50*	0	*99*	*72-125*	50.09	*1.16*	*20*
Surr: Dibromofluoromethane	*50.05*	5.0	*50*	0	*100*	*71-125*	49.97	*0.156*	*20*
Surr: Toluene-d8	*48.88*	5.0	*50*	0	*97.8*	*75-125*	49.49	*1.25*	*20*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97329** Instrument ID **VOA2** Method: **SW8260**

MS Sample ID: **1009582-10ZMS** Units: **µg/L** Analysis Date: **9/18/2010 03:50 PM**

Client ID: Run ID: **VOA2_100918A** SeqNo: **2093148** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.05	5.0	50	0	100	80-120	0			
1,1,2,2-Tetrachloroethane	54.3	5.0	50	0	109	72-120	0			
1,1,2-Trichlor-1,2,2-trifluoroethane	41.6	5.0	50	0	83.2	73-123	0			
1,1,2-Trichloroethane	50.68	5.0	50	0	101	80-120	0			
1,1-Dichloroethane	49.47	5.0	50	0	98.9	76-120	0			
1,1-Dichloroethene	44.37	5.0	50	0	88.7	73-124	0			
1,2,4-Trichlorobenzene	43.66	5.0	50	0	87.3	80-120	0			
1,2-Dibromo-3-chloropropane	56.53	5.0	50	0	113	65-125	0			
1,2-Dibromoethane	52.41	5.0	50	0	105	80-120	0			
1,2-Dichlorobenzene	47.86	5.0	50	0	95.7	80-120	0			
1,2-Dichloroethane	53.89	5.0	50	0	108	78-120	0			
1,2-Dichloropropane	51.16	5.0	50	0	102	80-120	0			
1,3-Dichlorobenzene	46.5	5.0	50	0	93	80-120	0			
1,4-Dichlorobenzene	46.26	5.0	50	0	92.5	80-120	0			
2-Butanone	107.5	10	100	0	107	58-132	0			
2-Hexanone	133.3	10	100	0	133	61-130	0			S
4-Methyl-2-pentanone	132	10	100	0	132	65-127	0			S
Acetone	119.8	10	100	0	120	59-137	0			
Benzene	47.52	5.0	50	0	95	73-121	0			
Bromodichloromethane	55.72	5.0	50	0	111	80-120	0			
Bromoform	51.52	5.0	50	0	103	79-120	0			
Bromomethane	46.77	5.0	50	0	93.5	66-137	0			
Carbon disulfide	95.74	10	100	0	95.7	68-141	0			
Carbon tetrachloride	46.04	5.0	50	0	92.1	75-124	0			
Chlorobenzene	48.25	5.0	50	0	96.5	80-120	0			
Chloroethane	45.25	5.0	50	0	90.5	76-121	0			
Chloroform	50.27	5.0	50	0	101	80-120	0			
Chloromethane	48.53	5.0	50	0	97.1	67-123	0			
cis-1,2-Dichloroethene	46.61	5.0	50	0	93.2	78-120	0			
cis-1,3-Dichloropropene	48.73	5.0	50	0	97.5	80-120	0			
Cyclohexane	39.49	5.0	50	0	79	66-125	0			
Dibromochloromethane	54.13	5.0	50	0	108	80-120	0			
Dichlorodifluoromethane	44.08	5.0	50	0	88.2	63-125	0			
Dichloromethane	47.93	10	50	0	95.9	65-133	0			
Ethylbenzene	48.13	5.0	50	0	96.3	80-120	0			
Isopropylbenzene	43.22	5.0	50	0	86.4	80-120	0			
m,p-Xylene	97.01	10	100	0	97	78-121	0			
Methyl acetate	55.43	5.0	50	0	111	60-130	0			
Methyl tert-butyl ether	52.82	5.0	50	0	106	73-121	0			
Methylcyclohexane	39.57	5.0	50	0	79.1	75-122	0			
o-Xylene	48.5	5.0	50	0	97	80-120	0			
Styrene	50.3	5.0	50	0	101	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97329**	Instrument ID **VOA2**		Method: **SW8260**				
Tetrachloroethene	44.87	5.0	50	0	89.7	79-120	0
Toluene	47.67	5.0	50	0	95.3	80-120	0
trans-1,2-Dichloroethene	47.49	5.0	50	0	95	78-120	0
trans-1,3-Dichloropropene	48.19	5.0	50	0	96.4	80-120	0
Trichloroethene	47.75	5.0	50	0	95.5	80-120	0
Trichlorofluoromethane	49.68	5.0	50	0	99.4	72-130	0
Vinyl chloride	45.64	2.0	50	0	91.3	70-127	0
Xylenes, Total	145.5	15	150	0	97	80-120	0
Surr: 1,2-Dichloroethane-d4	*53.52*	5.0	*50*	0	*107*	*70-125*	0
Surr: 4-Bromofluorobenzene	*50.68*	5.0	*50*	0	*101*	*72-125*	0
Surr: Dibromofluoromethane	*50.96*	5.0	*50*	0	*102*	*71-125*	0
Surr: Toluene-d8	*48.14*	5.0	*50*	0	*96.3*	*75-125*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97329** Instrument ID **VOA2** Method: **SW8260**

MSD Sample ID: **1009582-10ZMSD** Units: **µg/L** Analysis Date: **9/18/2010 04:14 PM**

Client ID: Run ID: **VOA2_100918A** SeqNo: **2093149** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.4	5.0	50	0	94.8	80-120	50.05	5.44	20	
1,1,2,2-Tetrachloroethane	53.52	5.0	50	0	107	72-120	54.3	1.45	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	38.01	5.0	50	0	76	73-123	41.6	9.01	20	
1,1,2-Trichloroethane	50.76	5.0	50	0	102	80-120	50.68	0.158	20	
1,1-Dichloroethane	48.76	5.0	50	0	97.5	76-120	49.47	1.46	20	
1,1-Dichloroethene	45.41	5.0	50	0	90.8	73-124	44.37	2.31	20	
1,2,4-Trichlorobenzene	45.5	5.0	50	0	91	80-120	43.66	4.12	20	
1,2-Dibromo-3-chloropropane	58.18	5.0	50	0	116	65-125	56.53	2.88	20	
1,2-Dibromoethane	52.2	5.0	50	0	104	80-120	52.41	0.404	20	
1,2-Dichlorobenzene	48.36	5.0	50	0	96.7	80-120	47.86	1.02	20	
1,2-Dichloroethane	52.37	5.0	50	0	105	78-120	53.89	2.85	20	
1,2-Dichloropropane	50.51	5.0	50	0	101	80-120	51.16	1.26	20	
1,3-Dichlorobenzene	47.5	5.0	50	0	95	80-120	46.5	2.12	20	
1,4-Dichlorobenzene	46.98	5.0	50	0	94	80-120	46.26	1.55	20	
2-Butanone	105	10	100	0	105	58-132	107.5	2.33	20	
2-Hexanone	129.5	10	100	0	129	61-130	133.3	2.9	20	
4-Methyl-2-pentanone	124.7	10	100	0	125	65-127	132	5.71	20	
Acetone	118.3	10	100	0	118	59-137	119.8	1.29	20	
Benzene	47.24	5.0	50	0	94.5	73-121	47.52	0.591	20	
Bromodichloromethane	55.83	5.0	50	0	112	80-120	55.72	0.204	20	
Bromoform	51.69	5.0	50	0	103	79-120	51.52	0.338	20	
Bromomethane	51.14	5.0	50	0	102	66-137	46.77	8.92	20	
Carbon disulfide	96.19	10	100	0	96.2	68-141	95.74	0.479	20	
Carbon tetrachloride	42.22	5.0	50	0	84.4	75-124	46.04	8.65	20	
Chlorobenzene	48.02	5.0	50	0	96	80-120	48.25	0.485	20	
Chloroethane	47.31	5.0	50	0	94.6	76-121	45.25	4.46	20	
Chloroform	49.8	5.0	50	0	99.6	80-120	50.27	0.925	20	
Chloromethane	50.75	5.0	50	0	101	67-123	48.53	4.47	20	
cis-1,2-Dichloroethene	46.33	5.0	50	0	92.7	78-120	46.61	0.598	20	
cis-1,3-Dichloropropene	48.97	5.0	50	0	97.9	80-120	48.73	0.475	20	
Cyclohexane	34.11	5.0	50	0	68.2	66-125	39.49	14.6	20	
Dibromochloromethane	55.2	5.0	50	0	110	80-120	54.13	1.96	20	
Dichlorodifluoromethane	41.71	5.0	50	0	83.4	63-125	44.08	5.52	20	
Dichloromethane	48.66	10	50	0	97.3	65-133	47.93	1.52	20	
Ethylbenzene	46.22	5.0	50	0	92.4	80-120	48.13	4.04	20	
Isopropylbenzene	41.55	5.0	50	0	83.1	80-120	43.22	3.96	20	
m,p-Xylene	94.14	10	100	0	94.1	78-121	97.01	3	20	
Methyl acetate	53.49	5.0	50	0	107	60-130	55.43	3.57	20	
Methyl tert-butyl ether	53.96	5.0	50	0	108	73-121	52.82	2.14	20	
Methylcyclohexane	34.31	5.0	50	0	68.6	75-122	39.57	14.3	20	S
o-Xylene	47.42	5.0	50	0	94.8	80-120	48.5	2.26	20	
Styrene	49.89	5.0	50	0	99.8	80-120	50.3	0.812	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97329**	Instrument ID **VOA2**		Method: **SW8260**						
Tetrachloroethene	41.3	5.0	50	0	82.6	79-120	44.87	8.3	20
Toluene	46.54	5.0	50	0	93.1	80-120	47.67	2.4	20
trans-1,2-Dichloroethene	47.04	5.0	50	0	94.1	78-120	47.49	0.957	20
trans-1,3-Dichloropropene	49.63	5.0	50	0	99.3	80-120	48.19	2.96	20
Trichloroethene	46.14	5.0	50	0	92.3	80-120	47.75	3.45	20
Trichlorofluoromethane	45.5	5.0	50	0	91	72-130	49.68	8.78	20
Vinyl chloride	47.41	2.0	50	0	94.8	70-127	45.64	3.8	20
Xylenes, Total	141.6	15	150	0	94.4	80-120	145.5	2.75	20
Surr: 1,2-Dichloroethane-d4	*52.23*	5.0	*50*	0	*104*	*70-125*	53.52	*2.44*	*20*
Surr: 4-Bromofluorobenzene	*50.55*	5.0	*50*	0	*101*	*72-125*	50.68	*0.251*	*20*
Surr: Dibromofluoromethane	*50.52*	5.0	*50*	0	*101*	*71-125*	50.96	*0.869*	*20*
Surr: Toluene-d8	*48.74*	5.0	*50*	0	*97.5*	*75-125*	48.14	*1.25*	*20*

The following samples were analyzed in this batch: 1009543-05A 1009543-08A 1009543-11A 1009543-13A 1009543-14A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97343** Instrument ID **VOA3** Method: **SW8260**

MBLK Sample ID: **VBLKS1-091810-R97343** Units: **µg/Kg** Analysis Date: **9/18/2010 11:28 AM**

Client ID: Run ID: **VOA3_100918A** SeqNo: **2093464** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	20								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	10								
Chloroform	U	5.0								
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Dichloromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
o-Xylene	U	5.0								
Styrene	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R97343** Instrument ID **VOA3** Method: **SW8260**

Tetrachloroethene	U	5.0					
Toluene	U	5.0					
trans-1,2-Dichloroethene	U	5.0					
trans-1,3-Dichloropropene	U	5.0					
Trichloroethene	U	5.0					
Trichlorofluoromethane	U	5.0					
Vinyl chloride	U	2.0					
Xylenes, Total	U	15					
Surr: 1,2-Dichloroethane-d4	*52.82*	0	*50*	0	*106*	*70-128*	0
Surr: 4-Bromofluorobenzene	*50.91*	0	*50*	0	*102*	*73-126*	0
Surr: Dibromofluoromethane	*51.85*	0	*50*	0	*104*	*71-128*	0
Surr: Toluene-d8	*51.13*	0	*50*	0	*102*	*73-127*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97343** Instrument ID **VOA3** Method: **SW8260**

LCS Sample ID: **VLCSS1-091810-R97343** Units: **µg/Kg** Analysis Date: **9/18/2010 10:07 AM**

Client ID: Run ID: **VOA3_100918A** SeqNo: **2093462** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	55.68	5.0	50	0	111	79-124	0			
1,1,2,2-Tetrachloroethane	50.03	5.0	50	0	100	75-123	0			
1,1,2-Trichlor-1,2,2-trifluoroethane	50.16	5.0	50	0	100	79-125	0			
1,1,2-Trichloroethane	51.3	5.0	50	0	103	79-120	0			
1,1-Dichloroethane	54.38	5.0	50	0	109	75-124	0			
1,1-Dichloroethene	50.77	5.0	50	0	102	80-122	0			
1,2,4-Trichlorobenzene	50.64	5.0	50	0	101	74-128	0			
1,2-Dibromo-3-chloropropane	48.42	5.0	50	0	96.8	66-129	0			
1,2-Dibromoethane	50.38	5.0	50	0	101	79-120	0			
1,2-Dichlorobenzene	49.07	5.0	50	0	98.1	79-120	0			
1,2-Dichloroethane	52.31	5.0	50	0	105	73-121	0			
1,2-Dichloropropane	51.51	5.0	50	0	103	76-120	0			
1,3-Dichlorobenzene	50.65	5.0	50	0	101	79-120	0			
1,4-Dichlorobenzene	49.73	5.0	50	0	99.5	77-120	0			
2-Butanone	111	10	100	0	111	65-130	0			
2-Hexanone	101.8	10	100	0	102	65-133	0			
4-Methyl-2-pentanone	99.11	10	100	0	99.1	69-130	0			
Acetone	111.8	20	100	0	112	53-142	0			
Benzene	50.68	5.0	50	0	101	79-120	0			
Bromodichloromethane	52.23	5.0	50	0	104	79-121	0			
Bromoform	47.65	5.0	50	0	95.3	74-122	0			
Bromomethane	48.58	10	50	0	97.2	68-131	0			
Carbon disulfide	109.6	10	100	0	110	80-124	0			
Carbon tetrachloride	52.42	5.0	50	0	105	74-126	0			
Chlorobenzene	50.87	5.0	50	0	102	79-120	0			
Chloroethane	53.42	10	50	0	107	76-126	0			
Chloroform	53.83	5.0	50	0	108	78-120	0			
Chloromethane	50.44	10	50	0	101	69-129	0			
cis-1,2-Dichloroethene	53.52	5.0	50	0	107	80-120	0			
cis-1,3-Dichloropropene	51.44	5.0	50	0	103	77-123	0			
Cyclohexane	50.21	5.0	50	0	100	74-126	0			
Dibromochloromethane	51.2	5.0	50	0	102	78-122	0			
Dichlorodifluoromethane	42.11	5.0	50	0	84.2	57-140	0			
Dichloromethane	46.49	10	50	0	93	70-123	0			
Ethylbenzene	52.05	5.0	50	0	104	80-122	0			
Isopropylbenzene	53.19	5.0	50	0	106	72-127	0			
m,p-Xylene	102.8	10	100	0	103	79-122	0			
Methyl acetate	48.84	5.0	50	0	97.7	69-123	0			
Methyl tert-butyl ether	54.17	5.0	50	0	108	76-121	0			
Methylcyclohexane	51.1	5.0	50	0	102	77-126	0			
o-Xylene	51.28	5.0	50	0	103	80-123	0			
Styrene	53.19	5.0	50	0	106	78-124	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97343**	Instrument ID **VOA3**		Method: **SW8260**				
Tetrachloroethene	51.48	5.0	50	0	103	80-121	0
Toluene	51.11	5.0	50	0	102	79-120	0
trans-1,2-Dichloroethene	53.34	5.0	50	0	107	79-122	0
trans-1,3-Dichloropropene	52.19	5.0	50	0	104	77-120	0
Trichloroethene	51.95	5.0	50	0	104	80-121	0
Trichlorofluoromethane	51.77	5.0	50	0	104	75-126	0
Vinyl chloride	51.92	2.0	50	0	104	76-126	0
Xylenes, Total	154.1	15	150	0	103	80-120	0
Surr: 1,2-Dichloroethane-d4	*53.04*	0	*50*	0	*106*	*70-128*	0
Surr: 4-Bromofluorobenzene	*51.46*	0	*50*	0	*103*	*73-126*	0
Surr: Dibromofluoromethane	*54.12*	0	*50*	0	*108*	*71-128*	0
Surr: Toluene-d8	*50.84*	0	*50*	0	*102*	*73-127*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97343** Instrument ID **VOA3** Method: **SW8260**

LCSD Sample ID: **VLCSDS1-091810-R97343** Units: **µg/Kg** Analysis Date: **9/18/2010 10:34 AM**

Client ID: Run ID: **VOA3_100918A** SeqNo: **2093463** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	57.88	5.0	50	0	116	79-124	55.68	3.87	30	
1,1,2,2-Tetrachloroethane	50.67	5.0	50	0	101	75-123	50.03	1.27	30	
1,1,2-Trichlor-1,2,2-trifluoroethane	52.13	5.0	50	0	104	79-125	50.16	3.86	30	
1,1,2-Trichloroethane	51.71	5.0	50	0	103	79-120	51.3	0.809	30	
1,1-Dichloroethane	55.67	5.0	50	0	111	75-124	54.38	2.34	30	
1,1-Dichloroethene	52.28	5.0	50	0	105	80-122	50.77	2.94	30	
1,2,4-Trichlorobenzene	52.33	5.0	50	0	105	74-128	50.64	3.28	30	
1,2-Dibromo-3-chloropropane	46.74	5.0	50	0	93.5	66-129	48.42	3.54	30	
1,2-Dibromoethane	53.13	5.0	50	0	106	79-120	50.38	5.31	30	
1,2-Dichlorobenzene	51.29	5.0	50	0	103	79-120	49.07	4.43	30	
1,2-Dichloroethane	53.95	5.0	50	0	108	73-121	52.31	3.09	30	
1,2-Dichloropropane	53.56	5.0	50	0	107	76-120	51.51	3.89	30	
1,3-Dichlorobenzene	53.06	5.0	50	0	106	79-120	50.65	4.64	30	
1,4-Dichlorobenzene	51.61	5.0	50	0	103	77-120	49.73	3.72	30	
2-Butanone	93.86	10	100	0	93.9	65-130	111	16.7	30	
2-Hexanone	101.2	10	100	0	101	65-133	101.8	0.502	30	
4-Methyl-2-pentanone	98.36	10	100	0	98.4	69-130	99.11	0.758	30	
Acetone	105.4	20	100	0	105	53-142	111.8	5.93	30	
Benzene	52.8	5.0	50	0	106	79-120	50.68	4.11	30	
Bromodichloromethane	54.23	5.0	50	0	108	79-121	52.23	3.74	30	
Bromoform	48.72	5.0	50	0	97.4	74-122	47.65	2.22	30	
Bromomethane	49.23	10	50	0	98.5	68-131	48.58	1.34	30	
Carbon disulfide	114	10	100	0	114	80-124	109.6	3.92	30	
Carbon tetrachloride	55.04	5.0	50	0	110	74-126	52.42	4.88	30	
Chlorobenzene	53.67	5.0	50	0	107	79-120	50.87	5.36	30	
Chloroethane	56.16	10	50	0	112	76-126	53.42	5	30	
Chloroform	55.91	5.0	50	0	112	78-120	53.83	3.79	30	
Chloromethane	51.83	10	50	0	104	69-129	50.44	2.74	30	
cis-1,2-Dichloroethene	55.75	5.0	50	0	111	80-120	53.52	4.07	30	
cis-1,3-Dichloropropene	52.58	5.0	50	0	105	77-123	51.44	2.19	30	
Cyclohexane	52.2	5.0	50	0	104	74-126	50.21	3.89	30	
Dibromochloromethane	52.46	5.0	50	0	105	78-122	51.2	2.43	30	
Dichlorodifluoromethane	47.63	5.0	50	0	95.3	57-140	42.11	12.3	30	
Dichloromethane	48.89	10	50	0	97.8	70-123	46.49	5.02	30	
Ethylbenzene	54.79	5.0	50	0	110	80-122	52.05	5.13	30	
Isopropylbenzene	56.38	5.0	50	0	113	72-127	53.19	5.82	30	
m,p-Xylene	108.6	10	100	0	109	79-122	102.8	5.49	30	
Methyl acetate	48.07	5.0	50	0	96.1	69-123	48.84	1.58	30	
Methyl tert-butyl ether	53.94	5.0	50	0	108	76-121	54.17	0.412	30	
Methylcyclohexane	53.64	5.0	50	0	107	77-126	51.1	4.85	30	
o-Xylene	54.22	5.0	50	0	108	80-123	51.28	5.57	30	
Styrene	55.24	5.0	50	0	110	78-124	53.19	3.77	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97343** Instrument ID **VOA3** Method: **SW8260**

Tetrachloroethene	53.12	5.0	50	0	106	80-121	51.48	3.13	30
Toluene	53.82	5.0	50	0	108	79-120	51.11	5.17	30
trans-1,2-Dichloroethene	55.43	5.0	50	0	111	79-122	53.34	3.85	30
trans-1,3-Dichloropropene	53.47	5.0	50	0	107	77-120	52.19	2.43	30
Trichloroethene	53.68	5.0	50	0	107	80-121	51.95	3.27	30
Trichlorofluoromethane	52.57	5.0	50	0	105	75-126	51.77	1.52	30
Vinyl chloride	54.41	2.0	50	0	109	76-126	51.92	4.69	30
Xylenes, Total	162.8	15	150	0	109	80-120	154.1	5.51	30
Surr: 1,2-Dichloroethane-d4	*52.02*	0	*50*	0	*104*	*70-128*	53.04	*1.95*	*30*
Surr: 4-Bromofluorobenzene	*51.26*	0	*50*	0	*103*	*73-126*	51.46	*0.377*	*30*
Surr: Dibromofluoromethane	*53.35*	0	*50*	0	*107*	*71-128*	54.12	*1.44*	*30*
Surr: Toluene-d8	*51.11*	0	*50*	0	*102*	*73-127*	50.84	*0.541*	*30*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97343** Instrument ID **VOA3** Method: **SW8260**

MS Sample ID: **1009582-08AMS** Units: **µg/Kg** Analysis Date: **9/18/2010 05:21 PM**
Client ID: Run ID: **VOA3_100918A** SeqNo: **2093467** Prep Date: DF: **0.719**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	34.66	3.6	35.95	0	96.4	79-124	0			
1,1,2,2-Tetrachloroethane	36.07	3.6	35.95	0	100	75-123	0			
1,1,2-Trichlor-1,2,2-trifluoroethane	29.74	3.6	35.95	0	82.7	79-125	0			
1,1,2-Trichloroethane	33.5	3.6	35.95	0	93.2	79-120	0			
1,1-Dichloroethane	35.41	3.6	35.95	0	98.5	75-124	0			
1,1-Dichloroethene	30.83	3.6	35.95	0	85.7	80-122	0			
1,2,4-Trichlorobenzene	15.85	3.6	35.95	0	44.1	74-128	0			S
1,2-Dibromo-3-chloropropane	30.25	3.6	35.95	0	84.1	66-129	0			
1,2-Dibromoethane	34.25	3.6	35.95	0	95.3	79-120	0			
1,2-Dichlorobenzene	23.53	3.6	35.95	0	65.4	79-120	0			S
1,2-Dichloroethane	35.15	3.6	35.95	0	97.8	73-121	0			
1,2-Dichloropropane	32.88	3.6	35.95	0	91.5	76-120	0			
1,3-Dichlorobenzene	23.08	3.6	35.95	0	64.2	79-120	0			S
1,4-Dichlorobenzene	23.34	3.6	35.95	0	64.9	77-120	0			S
2-Butanone	73.84	7.2	71.9	0	103	65-130	0			
2-Hexanone	76.28	7.2	71.9	0	106	65-133	0			
4-Methyl-2-pentanone	76.2	7.2	71.9	0	106	69-130	0			
Acetone	82.22	14	71.9	8.782	102	53-142	0			
Benzene	31.45	3.6	35.95	0	87.5	79-120	0			
Bromodichloromethane	33.78	3.6	35.95	0	94	79-121	0			
Bromoform	28.8	3.6	35.95	0	80.1	74-122	0			
Bromomethane	15.69	7.2	35.95	0	43.6	68-131	0			S
Carbon disulfide	70.84	7.2	71.9	0	98.5	80-124	0			
Carbon tetrachloride	31.24	3.6	35.95	0	86.9	74-126	0			
Chlorobenzene	29.02	3.6	35.95	0	80.7	79-120	0			
Chloroethane	26.88	7.2	35.95	0	74.8	76-126	0			S
Chloroform	35.21	3.6	35.95	0	97.9	78-120	0			
Chloromethane	28.01	7.2	35.95	0	77.9	69-129	0			
cis-1,2-Dichloroethene	34.23	3.6	35.95	0	95.2	80-120	0			
cis-1,3-Dichloropropene	30.8	3.6	35.95	0	85.7	77-123	0			
Cyclohexane	27.32	3.6	35.95	0	76	74-126	0			
Dibromochloromethane	32.8	3.6	35.95	0	91.2	78-122	0			
Dichlorodifluoromethane	30.44	3.6	35.95	0	84.7	57-140	0			
Dichloromethane	31.07	7.2	35.95	0	86.4	70-123	0			
Ethylbenzene	27.72	3.6	35.95	0	77.1	80-122	0			S
Isopropylbenzene	26.06	3.6	35.95	0	72.5	72-127	0			
m,p-Xylene	54.31	7.2	71.9	0	75.5	79-122	0			S
Methyl acetate	19.98	3.6	35.95	0	55.6	69-123	0			S
Methyl tert-butyl ether	36.59	3.6	35.95	0	102	76-121	0			
Methylcyclohexane	24.59	3.6	35.95	0	68.4	77-126	0			S
o-Xylene	27.2	3.6	35.95	0	75.7	80-123	0			S
Styrene	14.01	3.6	35.95	0	39	78-124	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97343**	Instrument ID **VOA3**		Method: **SW8260**					
Tetrachloroethene	25.95	3.6	35.95	0	72.2	80-121	0	S
Toluene	30.11	3.6	35.95	0	83.8	79-120	0	
trans-1,2-Dichloroethene	33.07	3.6	35.95	0	92	79-122	0	
trans-1,3-Dichloropropene	31.49	3.6	35.95	0	87.6	77-120	0	
Trichloroethene	29.48	3.6	35.95	0	82	80-121	0	
Trichlorofluoromethane	32.3	3.6	35.95	0	89.8	75-126	0	
Vinyl chloride	32.58	1.4	35.95	0	90.6	76-126	0	
Xylenes, Total	81.51	11	107.8	0	75.6	80-120	0	S
Surr: 1,2-Dichloroethane-d4	*40.63*	0	*35.95*	0	*113*	*70-128*	0	
Surr: 4-Bromofluorobenzene	*37.45*	0	*35.95*	0	*104*	*73-126*	0	
Surr: Dibromofluoromethane	*41.77*	0	*35.95*	0	*116*	*71-128*	0	
Surr: Toluene-d8	*37.44*	0	*35.95*	0	*104*	*73-127*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97343** Instrument ID **VOA3** Method: **SW8260**

MSD Sample ID: **1009582-08AMSD** Units: **µg/Kg** Analysis Date: **9/18/2010 05:49 PM**
Client ID: Run ID: **VOA3_100918A** SeqNo: **2093470** Prep Date: DF: **0.78**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.84	3.9	39	0	97	79-124	34.66	8.77	30	
1,1,2,2-Tetrachloroethane	33.25	3.9	39	0	85.3	75-123	36.07	8.12	30	
1,1,2-Trichlor-1,2,2-trifluoroethane	32.43	3.9	39	0	83.2	79-125	29.74	8.66	30	
1,1,2-Trichloroethane	34.14	3.9	39	0	87.5	79-120	33.5	1.89	30	
1,1-Dichloroethane	38.55	3.9	39	0	98.9	75-124	35.41	8.5	30	
1,1-Dichloroethene	35.08	3.9	39	0	89.9	80-122	30.83	12.9	30	
1,2,4-Trichlorobenzene	14.26	3.9	39	0	36.6	74-128	15.85	10.6	30	S
1,2-Dibromo-3-chloropropane	29.11	3.9	39	0	74.6	66-129	30.25	3.82	30	
1,2-Dibromoethane	33.98	3.9	39	0	87.1	79-120	34.25	0.801	30	
1,2-Dichlorobenzene	22.9	3.9	39	0	58.7	79-120	23.53	2.69	30	S
1,2-Dichloroethane	36.42	3.9	39	0	93.4	73-121	35.15	3.56	30	
1,2-Dichloropropane	35.4	3.9	39	0	90.8	76-120	32.88	7.39	30	
1,3-Dichlorobenzene	22.51	3.9	39	0	57.7	79-120	23.08	2.51	30	S
1,4-Dichlorobenzene	22.3	3.9	39	0	57.2	77-120	23.34	4.55	30	S
2-Butanone	73.92	7.8	78	0	94.8	65-130	73.84	0.102	30	
2-Hexanone	74.43	7.8	78	0	95.4	65-133	76.28	2.45	30	
4-Methyl-2-pentanone	73.81	7.8	78	0	94.6	69-130	76.2	3.18	30	
Acetone	84.26	16	78	8.782	96.8	53-142	82.22	2.45	30	
Benzene	34.56	3.9	39	0	88.6	79-120	31.45	9.41	30	
Bromodichloromethane	35.5	3.9	39	0	91	79-121	33.78	4.96	30	
Bromoform	28.37	3.9	39	0	72.8	74-122	28.8	1.47	30	S
Bromomethane	15.91	7.8	39	0	40.8	68-131	15.69	1.38	30	S
Carbon disulfide	78.39	7.8	78	0	101	80-124	70.84	10.1	30	
Carbon tetrachloride	35.51	3.9	39	0	91.1	74-126	31.24	12.8	30	
Chlorobenzene	30.38	3.9	39	0	77.9	79-120	29.02	4.57	30	S
Chloroethane	33.27	7.8	39	0	85.3	76-126	26.88	21.2	30	
Chloroform	38.13	3.9	39	0	97.8	78-120	35.21	7.96	30	
Chloromethane	32.73	7.8	39	0	83.9	69-129	28.01	15.5	30	
cis-1,2-Dichloroethene	36.8	3.9	39	0	94.4	80-120	34.23	7.25	30	
cis-1,3-Dichloropropene	32.46	3.9	39	0	83.2	77-123	30.8	5.27	30	
Cyclohexane	29.99	3.9	39	0	76.9	74-126	27.32	9.34	30	
Dibromochloromethane	32.62	3.9	39	0	83.6	78-122	32.8	0.556	30	
Dichlorodifluoromethane	34.17	3.9	39	0	87.6	57-140	30.44	11.5	30	
Dichloromethane	33.34	7.8	39	0	85.5	70-123	31.07	7.04	30	
Ethylbenzene	29.65	3.9	39	0	76	80-122	27.72	6.71	30	S
Isopropylbenzene	27.81	3.9	39	0	71.3	72-127	26.06	6.5	30	S
m,p-Xylene	57.75	7.8	78	0	74	79-122	54.31	6.14	30	S
Methyl acetate	21.09	3.9	39	0	54.1	69-123	19.98	5.45	30	S
Methyl tert-butyl ether	38.46	3.9	39	0	98.6	76-121	36.59	4.99	30	
Methylcyclohexane	27.01	3.9	39	0	69.2	77-126	24.59	9.36	30	S
o-Xylene	29.07	3.9	39	0	74.5	80-123	27.2	6.64	30	S
Styrene	24.97	3.9	39	0	64	78-124	14.01	56.2	30	SR

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97343** Instrument ID **VOA3** Method: **SW8260**

Tetrachloroethene	27.99	3.9	39	0	71.8	80-121	25.95	7.55	30	S
Toluene	32.68	3.9	39	0	83.8	79-120	30.11	8.18	30	
trans-1,2-Dichloroethene	36.37	3.9	39	0	93.2	79-122	33.07	9.49	30	
trans-1,3-Dichloropropene	33.44	3.9	39	0	85.7	77-120	31.49	6.01	30	
Trichloroethene	33.27	3.9	39	0	85.3	80-121	29.48	12.1	30	
Trichlorofluoromethane	35.56	3.9	39	0	91.2	75-126	32.3	9.63	30	
Vinyl chloride	36.9	1.6	39	0	94.6	76-126	32.58	12.4	30	
Xylenes, Total	86.82	12	117	0	74.2	80-120	81.51	6.3	30	S
Surr: 1,2-Dichloroethane-d4	*45.32*	0	*39*	0	*116*	*70-128*	40.63	*10.9*	*30*	
Surr: 4-Bromofluorobenzene	*41.21*	0	*39*	0	*106*	*73-126*	37.45	*9.57*	*30*	
Surr: Dibromofluoromethane	*45.92*	0	*39*	0	*118*	*71-128*	41.77	*9.46*	*30*	
Surr: Toluene-d8	*40.31*	0	*39*	0	*103*	*73-127*	37.44	*7.38*	*30*	

The following samples were analyzed in this batch: 1009543-01A, 1009543-03A, 1009543-06A, 1009543-09A, 1009543-12A, 1009543-15A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97471** Instrument ID **VOA2** Method: **SW8260**

MBLK Sample ID: **VBLKW-092110-R97471** Units: **µg/L** Analysis Date: **9/21/2010 12:17 PM**

Client ID: Run ID: **VOA2_100921A** SeqNo: **2095781** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Dichloromethane	U	10								
Ethylbenzene	U	5.0								
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
o-Xylene	U	5.0								
Styrene	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97471** Instrument ID **VOA2** Method: **SW8260**

Tetrachloroethene	U	5.0					
Toluene	U	5.0					
trans-1,2-Dichloroethene	U	5.0					
trans-1,3-Dichloropropene	U	5.0					
Trichloroethene	U	5.0					
Trichlorofluoromethane	U	5.0					
Vinyl chloride	U	2.0					
Xylenes, Total	U	15					
Surr: 1,2-Dichloroethane-d4	*52.03*	5.0	*50*	0	*104*	*70-125*	0
Surr: 4-Bromofluorobenzene	*46.25*	5.0	*50*	0	*92.5*	*72-125*	0
Surr: Dibromofluoromethane	*52*	5.0	*50*	0	*104*	*71-125*	0
Surr: Toluene-d8	*49.75*	5.0	*50*	0	*99.5*	*75-125*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97471** Instrument ID **VOA2** Method: **SW8260**

LCS Sample ID: **VLCSW-092110-R97471** Units: **µg/L** Analysis Date: **9/21/2010 10:42 AM**
Client ID: Run ID: **VOA2_100921A** SeqNo: **2095779** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.39	5.0	50	0	107	80-120	0			
1,1,2,2-Tetrachloroethane	48.32	5.0	50	0	96.6	72-120	0			
1,1,2-Trichlor-1,2,2-trifluoroethane	49.89	5.0	50	0	99.8	73-123	0			
1,1,2-Trichloroethane	49.56	5.0	50	0	99.1	80-120	0			
1,1-Dichloroethane	51.96	5.0	50	0	104	76-120	0			
1,1-Dichloroethene	55.82	5.0	50	0	112	73-124	0			
1,2,4-Trichlorobenzene	51.78	5.0	50	0	104	80-120	0			
1,2-Dibromo-3-chloropropane	44.79	5.0	50	0	89.6	65-125	0			
1,2-Dibromoethane	50.21	5.0	50	0	100	80-120	0			
1,2-Dichlorobenzene	51.88	5.0	50	0	104	80-120	0			
1,2-Dichloroethane	47.96	5.0	50	0	95.9	78-120	0			
1,2-Dichloropropane	52.11	5.0	50	0	104	80-120	0			
1,3-Dichlorobenzene	52.7	5.0	50	0	105	80-120	0			
1,4-Dichlorobenzene	51.24	5.0	50	0	102	80-120	0			
2-Butanone	96.44	10	100	0	96.4	58-132	0			
2-Hexanone	92.49	10	100	0	92.5	61-130	0			
4-Methyl-2-pentanone	93.66	10	100	0	93.7	65-127	0			
Acetone	106.5	10	100	0	106	59-137	0			
Benzene	51.71	5.0	50	0	103	73-121	0			
Bromodichloromethane	53.11	5.0	50	0	106	80-120	0			
Bromoform	47.28	5.0	50	0	94.6	79-120	0			
Bromomethane	52.43	5.0	50	0	105	66-137	0			
Carbon disulfide	114.6	10	100	0	115	68-141	0			
Carbon tetrachloride	48.41	5.0	50	0	96.8	75-124	0			
Chlorobenzene	51.35	5.0	50	0	103	80-120	0			
Chloroethane	53.73	5.0	50	0	107	76-121	0			
Chloroform	50.62	5.0	50	0	101	80-120	0			
Chloromethane	51.42	5.0	50	0	103	67-123	0			
cis-1,2-Dichloroethene	54.96	5.0	50	0	110	78-120	0			
cis-1,3-Dichloropropene	50.47	5.0	50	0	101	80-120	0			
Cyclohexane	48.61	5.0	50	0	97.2	66-125	0			
Dibromochloromethane	53.71	5.0	50	0	107	80-120	0			
Dichlorodifluoromethane	48.85	5.0	50	0	97.7	63-125	0			
Dichloromethane	52.81	10	50	0	106	65-133	0			
Ethylbenzene	54.74	5.0	50	0	109	80-120	0			
Isopropylbenzene	51.25	5.0	50	0	102	80-120	0			
m,p-Xylene	110.1	10	100	0	110	78-121	0			
Methyl acetate	47.25	5.0	50	0	94.5	60-130	0			
Methyl tert-butyl ether	51.29	5.0	50	0	103	73-121	0			
Methylcyclohexane	49.31	5.0	50	0	98.6	75-122	0			
o-Xylene	53.14	5.0	50	0	106	80-120	0			
Styrene	53.18	5.0	50	0	106	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97471**	Instrument ID **VOA2**		Method: **SW8260**				
Tetrachloroethene	52.85	5.0	50	0	106	79-120	0
Toluene	51.96	5.0	50	0	104	80-120	0
trans-1,2-Dichloroethene	53.96	5.0	50	0	108	78-120	0
trans-1,3-Dichloropropene	48.36	5.0	50	0	96.7	80-120	0
Trichloroethene	54.54	5.0	50	0	109	80-120	0
Trichlorofluoromethane	54.69	5.0	50	0	109	72-130	0
Vinyl chloride	56.11	2.0	50	0	112	70-127	0
Xylenes, Total	163.3	15	150	0	109	80-120	0
Surr: 1,2-Dichloroethane-d4	*46.92*	5.0	*50*	0	*93.8*	*70-125*	0
Surr: 4-Bromofluorobenzene	*48.87*	5.0	*50*	0	*97.7*	*72-125*	0
Surr: Dibromofluoromethane	*49.21*	5.0	*50*	0	*98.4*	*71-125*	0
Surr: Toluene-d8	*49.32*	5.0	*50*	0	*98.6*	*75-125*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97471** Instrument ID **VOA2** Method: **SW8260**

LCSD Sample ID: **VLCSDW-092110-R97471** Units: **µg/L** Analysis Date: **9/21/2010 11:06 AM**

Client ID: Run ID: **VOA2_100921A** SeqNo: **2095780** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.44	5.0	50	0	105	80-120	53.39	1.8	20	
1,1,2,2-Tetrachloroethane	48.47	5.0	50	0	96.9	72-120	48.32	0.324	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	47.02	5.0	50	0	94	73-123	49.89	5.93	20	
1,1,2-Trichloroethane	48.46	5.0	50	0	96.9	80-120	49.56	2.25	20	
1,1-Dichloroethane	52.45	5.0	50	0	105	76-120	51.96	0.955	20	
1,1-Dichloroethene	55.7	5.0	50	0	111	73-124	55.82	0.225	20	
1,2,4-Trichlorobenzene	47.45	5.0	50	0	94.9	80-120	51.78	8.72	20	
1,2-Dibromo-3-chloropropane	45.05	5.0	50	0	90.1	65-125	44.79	0.585	20	
1,2-Dibromoethane	49.65	5.0	50	0	99.3	80-120	50.21	1.13	20	
1,2-Dichlorobenzene	48.21	5.0	50	0	96.4	80-120	51.88	7.33	20	
1,2-Dichloroethane	46.45	5.0	50	0	92.9	78-120	47.96	3.21	20	
1,2-Dichloropropane	50.98	5.0	50	0	102	80-120	52.11	2.18	20	
1,3-Dichlorobenzene	48.29	5.0	50	0	96.6	80-120	52.7	8.73	20	
1,4-Dichlorobenzene	47.02	5.0	50	0	94	80-120	51.24	8.6	20	
2-Butanone	97.68	10	100	0	97.7	58-132	96.44	1.29	20	
2-Hexanone	91.92	10	100	0	91.9	61-130	92.49	0.619	20	
4-Methyl-2-pentanone	93.06	10	100	0	93.1	65-127	93.66	0.643	20	
Acetone	102.6	10	100	0	103	59-137	106.5	3.73	20	
Benzene	50.57	5.0	50	0	101	73-121	51.71	2.23	20	
Bromodichloromethane	51.86	5.0	50	0	104	80-120	53.11	2.38	20	
Bromoform	47.3	5.0	50	0	94.6	79-120	47.28	0.0407	20	
Bromomethane	52.8	5.0	50	0	106	66-137	52.43	0.698	20	
Carbon disulfide	115.4	10	100	0	115	68-141	114.6	0.685	20	
Carbon tetrachloride	46.15	5.0	50	0	92.3	75-124	48.41	4.78	20	
Chlorobenzene	49.59	5.0	50	0	99.2	80-120	51.35	3.48	20	
Chloroethane	54	5.0	50	0	108	76-121	53.73	0.512	20	
Chloroform	50.37	5.0	50	0	101	80-120	50.62	0.493	20	
Chloromethane	51.93	5.0	50	0	104	67-123	51.42	0.986	20	
cis-1,2-Dichloroethene	55.62	5.0	50	0	111	78-120	54.96	1.18	20	
cis-1,3-Dichloropropene	49.49	5.0	50	0	99	80-120	50.47	1.95	20	
Cyclohexane	43.8	5.0	50	0	87.6	66-125	48.61	10.4	20	
Dibromochloromethane	52.88	5.0	50	0	106	80-120	53.71	1.56	20	
Dichlorodifluoromethane	47.7	5.0	50	0	95.4	63-125	48.85	2.39	20	
Dichloromethane	54.77	10	50	0	110	65-133	52.81	3.65	20	
Ethylbenzene	50.78	5.0	50	0	102	80-120	54.74	7.5	20	
Isopropylbenzene	45.83	5.0	50	0	91.7	80-120	51.25	11.2	20	
m,p-Xylene	100.9	10	100	0	101	78-121	110.1	8.74	20	
Methyl acetate	47.6	5.0	50	0	95.2	60-130	47.25	0.738	20	
Methyl tert-butyl ether	51	5.0	50	0	102	73-121	51.29	0.577	20	
Methylcyclohexane	42.71	5.0	50	0	85.4	75-122	49.31	14.4	20	
o-Xylene	49.2	5.0	50	0	98.4	80-120	53.14	7.69	20	
Styrene	50.48	5.0	50	0	101	80-120	53.18	5.22	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97471** Instrument ID **VOA2** Method: **SW8260**

Tetrachloroethene	48.42	5.0	50	0	96.8	79-120	52.85	8.75	20
Toluene	50.15	5.0	50	0	100	80-120	51.96	3.55	20
trans-1,2-Dichloroethene	53.91	5.0	50	0	108	78-120	53.96	0.0938	20
trans-1,3-Dichloropropene	48.13	5.0	50	0	96.3	80-120	48.36	0.479	20
Trichloroethene	51.44	5.0	50	0	103	80-120	54.54	5.86	20
Trichlorofluoromethane	53.4	5.0	50	0	107	72-130	54.69	2.39	20
Vinyl chloride	55.55	2.0	50	0	111	70-127	56.11	1	20
Xylenes, Total	150.1	15	150	0	100	80-120	163.3	8.4	20
Surr: 1,2-Dichloroethane-d4	*47.4*	5.0	*50*	0	*94.8*	*70-125*	46.92	*1.02*	*20*
Surr: 4-Bromofluorobenzene	*48.83*	5.0	*50*	0	*97.7*	*72-125*	48.87	*0.0921*	*20*
Surr: Dibromofluoromethane	*49.99*	5.0	*50*	0	*100*	*71-125*	49.21	*1.57*	*20*
Surr: Toluene-d8	*49.38*	5.0	*50*	0	*98.8*	*75-125*	49.32	*0.12*	*20*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97471** Instrument ID **VOA2** Method: **SW8260**

MS Sample ID: **1009425-06ZMS** Units: **µg/L** Analysis Date: **9/21/2010 04:19 PM**

Client ID: Run ID: **VOA2_100921A** SeqNo: **2096608** Prep Date: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	11480	1,200	12500	0	91.9	80-120	0			
1,1,2,2-Tetrachloroethane	11960	1,200	12500	0	95.7	72-120	0			
1,1,2-Trichlor-1,2,2-trifluoroethane	9855	1,200	12500	0	78.8	73-123	0			
1,1,2-Trichloroethane	11540	1,200	12500	0	92.3	80-120	0			
1,1-Dichloroethane	11010	1,200	12500	0	88	76-120	0			
1,1-Dichloroethene	10770	1,200	12500	0	86.2	73-124	0			
1,2,4-Trichlorobenzene	12950	1,200	12500	0	104	80-120	0			
1,2-Dibromo-3-chloropropane	11750	1,200	12500	0	94	65-125	0			
1,2-Dibromoethane	12010	1,200	12500	0	96.1	80-120	0			
1,2-Dichlorobenzene	12250	1,200	12500	0	98	80-120	0			
1,2-Dichloroethane	11580	1,200	12500	0	92.6	78-120	0			
1,2-Dichloropropane	12530	1,200	12500	0	100	80-120	0			
1,3-Dichlorobenzene	12630	1,200	12500	0	101	80-120	0			
1,4-Dichlorobenzene	12060	1,200	12500	0	96.5	80-120	0			
2-Butanone	24130	2,500	25000	0	96.5	58-132	0			
2-Hexanone	24390	2,500	25000	0	97.5	61-130	0			
4-Methyl-2-pentanone	25830	2,500	25000	0	103	65-127	0			
Acetone	25330	2,500	25000	0	101	59-137	0			
Benzene	12110	1,200	12500	0	96.9	73-121	0			
Bromodichloromethane	12630	1,200	12500	0	101	80-120	0			
Bromoform	11770	1,200	12500	0	94.2	79-120	0			
Bromomethane	9874	1,200	12500	0	79	66-137	0			
Carbon disulfide	23200	2,500	25000	0	92.8	68-141	0			
Carbon tetrachloride	10210	1,200	12500	0	81.7	75-124	0			
Chlorobenzene	12220	1,200	12500	0	97.8	80-120	0			
Chloroethane	9093	1,200	12500	0	72.7	76-121	0			S
Chloroform	11730	1,200	12500	0	93.8	80-120	0			
Chloromethane	12220	1,200	12500	0	97.8	67-123	0			
cis-1,2-Dichloroethene	11650	1,200	12500	0	93.2	78-120	0			
cis-1,3-Dichloropropene	11760	1,200	12500	0	94.1	80-120	0			
Cyclohexane	10060	1,200	12500	1911	65.2	66-125	0			S
Dibromochloromethane	12460	1,200	12500	0	99.7	80-120	0			
Dichlorodifluoromethane	9863	1,200	12500	0	78.9	63-125	0			
Dichloromethane	11730	2,500	12500	467.7	90.1	65-133	0			
Ethylbenzene	12610	1,200	12500	0	101	80-120	0			
Isopropylbenzene	11640	1,200	12500	611.9	88.2	80-120	0			
m,p-Xylene	25140	2,500	25000	0	101	78-121	0			
Methyl acetate	11700	1,200	12500	0	93.6	60-130	0			
Methyl tert-butyl ether	11020	1,200	12500	0	88.1	73-121	0			
Methylcyclohexane	15900	1,200	12500	5547	82.8	75-122	0			
o-Xylene	12380	1,200	12500	0	99.1	80-120	0			
Styrene	12710	1,200	12500	0	102	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97471**	Instrument ID **VOA2**		Method: **SW8260**				
Tetrachloroethene	11490	1,200	12500	0	91.9	79-120	0
Toluene	11580	1,200	12500	0	92.6	80-120	0
trans-1,2-Dichloroethene	10980	1,200	12500	0	87.9	78-120	0
trans-1,3-Dichloropropene	10940	1,200	12500	0	87.5	80-120	0
Trichloroethene	12110	1,200	12500	0	96.9	80-120	0
Trichlorofluoromethane	10110	1,200	12500	0	80.8	72-130	0
Vinyl chloride	10930	500	12500	0	87.5	70-127	0
Xylenes, Total	37520	3,800	37500	0	100	80-120	0
Surr: 1,2-Dichloroethane-d4	*11630*	1,200	*12500*	0	*93*	*70-125*	0
Surr: 4-Bromofluorobenzene	*12330*	1,200	*12500*	0	*98.6*	*72-125*	0
Surr: Dibromofluoromethane	*11890*	1,200	*12500*	0	*95.1*	*71-125*	0
Surr: Toluene-d8	*11830*	1,200	*12500*	0	*94.7*	*75-125*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97471** Instrument ID **VOA2** Method: **SW8260**

MSD Sample ID: **1009425-06ZMSD** Units: **µg/L** Analysis Date: **9/21/2010 04:42 PM**

Client ID: Run ID: **VOA2_100921A** SeqNo: **2096609** Prep Date: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	11020	1,200	12500	0	88.2	80-120	11480	4.12	20	
1,1,2,2-Tetrachloroethane	12410	1,200	12500	0	99.3	72-120	11960	3.72	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	9755	1,200	12500	0	78	73-123	9855	1.03	20	
1,1,2-Trichloroethane	11840	1,200	12500	0	94.7	80-120	11540	2.52	20	
1,1-Dichloroethane	11520	1,200	12500	0	92.1	76-120	11010	4.53	20	
1,1-Dichloroethene	11150	1,200	12500	0	89.2	73-124	10770	3.42	20	
1,2,4-Trichlorobenzene	12950	1,200	12500	0	104	80-120	12950	0.0119	20	
1,2-Dibromo-3-chloropropane	11280	1,200	12500	0	90.3	65-125	11750	4.05	20	
1,2-Dibromoethane	12150	1,200	12500	0	97.2	80-120	12010	1.21	20	
1,2-Dichlorobenzene	12090	1,200	12500	0	96.7	80-120	12250	1.39	20	
1,2-Dichloroethane	10570	1,200	12500	0	84.6	78-120	11580	9.08	20	
1,2-Dichloropropane	12320	1,200	12500	0	98.6	80-120	12530	1.66	20	
1,3-Dichlorobenzene	12350	1,200	12500	0	98.8	80-120	12630	2.18	20	
1,4-Dichlorobenzene	12000	1,200	12500	0	96	80-120	12060	0.535	20	
2-Butanone	22630	2,500	25000	0	90.5	58-132	24130	6.45	20	
2-Hexanone	24670	2,500	25000	0	98.7	61-130	24390	1.15	20	
4-Methyl-2-pentanone	25750	2,500	25000	0	103	65-127	25830	0.323	20	
Acetone	25600	2,500	25000	0	102	59-137	25330	1.07	20	
Benzene	12150	1,200	12500	0	97.2	73-121	12110	0.257	20	
Bromodichloromethane	12000	1,200	12500	0	96	80-120	12630	5.16	20	
Bromoform	11830	1,200	12500	0	94.6	79-120	11770	0.489	20	
Bromomethane	9721	1,200	12500	0	77.8	66-137	9874	1.57	20	
Carbon disulfide	24610	2,500	25000	0	98.4	68-141	23200	5.9	20	
Carbon tetrachloride	9505	1,200	12500	0	76	75-124	10210	7.18	20	
Chlorobenzene	12230	1,200	12500	0	97.8	80-120	12220	0.0302	20	
Chloroethane	8627	1,200	12500	0	69	76-121	9093	5.25	20	S
Chloroform	11370	1,200	12500	0	91	80-120	11730	3.09	20	
Chloromethane	11390	1,200	12500	0	91.1	67-123	12220	7.08	20	
cis-1,2-Dichloroethene	11500	1,200	12500	0	92	78-120	11650	1.28	20	
cis-1,3-Dichloropropene	11700	1,200	12500	0	93.6	80-120	11760	0.494	20	
Cyclohexane	9702	1,200	12500	1911	62.3	66-125	10060	3.61	20	S
Dibromochloromethane	12290	1,200	12500	0	98.3	80-120	12460	1.42	20	
Dichlorodifluoromethane	9199	1,200	12500	0	73.6	63-125	9863	6.96	20	
Dichloromethane	12140	2,500	12500	467.7	93.4	65-133	11730	3.45	20	
Ethylbenzene	12720	1,200	12500	0	102	80-120	12610	0.887	20	
Isopropylbenzene	11650	1,200	12500	611.9	88.3	80-120	11640	0.0414	20	
m,p-Xylene	25280	2,500	25000	0	101	78-121	25140	0.555	20	
Methyl acetate	11940	1,200	12500	0	95.5	60-130	11700	2.03	20	
Methyl tert-butyl ether	11450	1,200	12500	0	91.6	73-121	11020	3.83	20	
Methylcyclohexane	15390	1,200	12500	5547	78.7	75-122	15900	3.25	20	
o-Xylene	12440	1,200	12500	0	99.5	80-120	12380	0.459	20	
Styrene	12710	1,200	12500	0	102	80-120	12710	0.0268	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97471** Instrument ID **VOA2** Method: **SW8260**

Tetrachloroethene	11700	1,200	12500	0	93.6	79-120	11490	1.87	20
Toluene	12070	1,200	12500	0	96.5	80-120	11580	4.12	20
trans-1,2-Dichloroethene	11730	1,200	12500	0	93.8	78-120	10980	6.57	20
trans-1,3-Dichloropropene	11270	1,200	12500	0	90.1	80-120	10940	2.96	20
Trichloroethene	11950	1,200	12500	0	95.6	80-120	12110	1.38	20
Trichlorofluoromethane	9676	1,200	12500	0	77.4	72-130	10110	4.34	20
Vinyl chloride	11220	500	12500	0	89.8	70-127	10930	2.62	20
Xylenes, Total	37720	3,800	37500	0	101	80-120	37520	0.523	20
Surr: 1,2-Dichloroethane-d4	*11100*	1,200	*12500*	0	*88.8*	*70-125*	11630	*4.63*	*20*
Surr: 4-Bromofluorobenzene	*12120*	1,200	*12500*	0	*97*	*72-125*	12330	*1.68*	*20*
Surr: Dibromofluoromethane	*11780*	1,200	*12500*	0	*94.3*	*71-125*	11890	*0.896*	*20*
Surr: Toluene-d8	*12340*	1,200	*12500*	0	*98.7*	*75-125*	11830	*4.2*	*20*

The following samples were analyzed in this batch: 1009543-02A 1009543-16A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **46113** Instrument ID **UV-2450** Method: **SM4500 NH3-B-F**

MBLK Sample ID: **WBLKS-091710-46113** Units: **mg/Kg** Analysis Date: **9/17/2010 03:00 PM**
Client ID: Run ID: **UV-2450_100917C** SeqNo: **2094146** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.25	1.3								J

LCS Sample ID: **WLCSS-091710-46113** Units: **mg/Kg** Analysis Date: **9/17/2010 03:00 PM**
Client ID: Run ID: **UV-2450_100917C** SeqNo: **2094147** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	10.5	1.3	10	0	105	80-120	0			

LCSD Sample ID: **WLCSDS-091710-46113** Units: **mg/Kg** Analysis Date: **9/17/2010 03:00 PM**
Client ID: Run ID: **UV-2450_100917C** SeqNo: **2094159** Prep Date: **9/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	10.55	1.3	10	0	106	80-120	10.5	0.475	25	

MS Sample ID: **1009537-01CMS** Units: **mg/Kg** Analysis Date: **9/17/2010 03:00 PM**
Client ID: Run ID: **UV-2450_100917C** SeqNo: **2094161** Prep Date: **9/17/2010** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	68.68	1.8	13.97	85.33	-119	80-120	0			SO

MSD Sample ID: **1009537-01CMSD** Units: **mg/Kg** Analysis Date: **9/17/2010 03:00 PM**
Client ID: Run ID: **UV-2450_100917C** SeqNo: **2094162** Prep Date: **9/17/2010** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	68.78	2.0	15.07	85.33	-110	80-120	68.68	0.146	25	SO

DUP Sample ID: **1009537-01CDUP** Units: **mg/Kg** Analysis Date: **9/17/2010 03:00 PM**
Client ID: Run ID: **UV-2450_100917C** SeqNo: **2094160** Prep Date: **9/17/2010** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	79.38	4.4	0	85.33	0	0-0	85.33	7.22	20	

The following samples were analyzed in this batch:

1009543-01C	1009543-03C	1009543-06C
1009543-09C	1009543-12C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97361** Instrument ID **Balance1** Method: **E160.3**

DUP Sample ID: **1009525-07CDUP** Units: **wt%** Analysis Date: **9/17/2010 12:00 PM**

Client ID: Run ID: **BALANCE1_100917D** SeqNo: **2093835** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	5.866	0.010	0	0	0	0-0	6.659	12.7	20	

The following samples were analyzed in this batch:

1009543-01C	1009543-03C	1009543-06C
1009543-09C	1009543-12C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM, Inc.
Work Order: 1009543
Project: R04DW

QC BATCH REPORT

Batch ID: **R97365** Instrument ID **WetChem** Method: **WALKLEY-BLACK**

MBLK Sample ID: **WBLK-092010-R97365** Units: **wt%** Analysis Date: **9/20/2010 10:00 AM**
Client ID: Run ID: **WETCHEM_100920A** SeqNo: **2093898** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Organic Carbon	U	0.020								

LCS Sample ID: **WLCS-092010-R97365** Units: **wt%** Analysis Date: **9/20/2010 10:00 AM**
Client ID: Run ID: **WETCHEM_100920A** SeqNo: **2093899** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Organic Carbon	0.968	0.020	1	0	96.8	60-110	0			

LCSD Sample ID: **WLCSD-092010-R97365** Units: **wt%** Analysis Date: **9/20/2010 10:00 AM**
Client ID: Run ID: **WETCHEM_100920A** SeqNo: **2093911** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Organic Carbon	0.948	0.020	1	0	94.8	60-110	0.968	2.09	20	

MS Sample ID: **1009537-12CMS** Units: **wt%** Analysis Date: **9/20/2010 10:00 AM**
Client ID: Run ID: **WETCHEM_100920A** SeqNo: **2093913** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Organic Carbon	1.876	0.020	1.98	-0.079	98.7	60-110	0			

MSD Sample ID: **1009537-12CMSD** Units: **wt%** Analysis Date: **9/20/2010 10:00 AM**
Client ID: Run ID: **WETCHEM_100920A** SeqNo: **2093914** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Organic Carbon	1.857	0.020	1.98	-0.079	97.8	60-110	1.876	1.02	20	

DUP Sample ID: **1009537-12CDUP** Units: **wt%** Analysis Date: **9/20/2010 10:00 AM**
Client ID: Run ID: **WETCHEM_100920A** SeqNo: **2093912** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Organic Carbon	U	0.020	0	0	0		-0.079	0	20	

The following samples were analyzed in this batch:

1009543-01C	1009543-03C	1009543-06C
1009543-09C	1009543-12C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:	Tetra Tech EM, Inc.
Project:	R04DW
WorkOrder:	**1009543**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram - Dry weight corrected
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram - Dry weight corrected
mg/L	Milligrams per Liter
ug/Kg-dry	Micrograms per Kilograms - Dry weight corrected
ug/L	Micrograms per Liter
wt%	

USEPA CLP Generic COC (LAB COPY)
DateShipped: 9/15/2010
CarrierName: HandDelivery
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: R04DW
Project Code:
Cooler #:

No: NIC60DAY-091410-002
Lab: ALS-Houston
Lab Contact: Kevin Given
Lab Phone: (281) 530-5656

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
NCA10-1457-A-SD-09142010	SEDIMENT/ C. BAGGOT		% Moisture, VOC, TPH-DRO/ORO, Total Metals, TOC, SVOC, Alkyl PAHs, Ammonia, TPH-GRO	1495 (Ice), 1496 ((2) NaHSO4 + (1) Methanol), 1497 (4 C), 1499 (4 C), 1501 ((2) NaHSO4 + (1) Methanol) (9)	NCA10-1457	09/14/2010	Broken VOA Lite
NCA10-1457-A-SWA-09142010	WATER/ C. BAGGOT		Total Metals, VOC, SVOC, Alkyl PAHs, TPH-DRO/ORO, TPH-GRO	1542 (HNO3 pH<2), 1543 (HCl pH < 2), 1544 (4 C), 1545 (4 C), 1546 (4 C), 1547 (HCl pH < 2) (13)	NCA10-1457	09/14/2010	Broken i.L. Alk PAH's
NCA10-1457-A-SWB-09142010	WATER/ C. BAGGOT		Total Metals, VOC, SVOC, Alkyl PAHs, TPH-DRO/ORO, TPH-GRO	1549 (HNO3 pH<2), 1550 (HCl pH < 2), 1551 (4 C), 1552 (4 C), 1553 (4 C), 1554 (HCl pH < 2) (13)	NCA10-1457	09/14/2010	CCS
R4-6-B-SD-09142010	SEDIMENT/ B. BOL		% Moisture, VOC, TPH-DRO/ORO, Total Metals, TOC, SVOC, Alkyl PAHs, Ammonia, TPH-GRO	1506 (Ice), 1507 ((2) NaHSO4 + (1) Methanol), 1508 (4 C), 1509 (4 C), 1510 ((2) NaHSO4 + (1) Methanol) (9)	R4-6	09/14/2010	V
R4-6-B-SWA-09142010	WATER/ B. BOL		Total Metals, VOC, SVOC, Alkyl PAHs, TPH-DRO/ORO, TPH-GRO	1556 (HNO3 pH<2), 1557 (HCl pH < 2), 1558 (4 C), 1559 (4 C), 1560 (4 C), 1561 (HCl pH < 2) (13)	R4-6	09/14/2010	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	CCS		[illegible]	9/15/10	0845						

USEPA CLP Generic COC (LAB COPY)
DateShipped: 9/15/2010
CarrierName: HandDelivery
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: R04DW
Project Code:
Cooler #:

No: NIC60DAY-091410-002
Lab: ALS-Houston
Lab Contact: Kevin Given
Lab Phone: (281) 530-5656

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
R4-6-B-SWB-09142010	WATER/ B. BOL		Total Metals, VOC, SVOC, Alkyl PAHs, TPH-DRO/ORO, TPH-GRO	1563 (HNO3 pH<2), 1564 (HCl pH < 2), 1565 (4 C), 1566 (4 C), 1567 (4 C), 1568 (HCl pH < 2) (13)	R4-6	09/14/2010	
R4-83-D-SD-09142010	SEDIMENT/ B. MALONE		% Moisture, VOC, TPH-DRO/ORO, Total Metals, TOC, SVOC, Alkyl PAHs, Ammonia, TPH-GRO	1514 (Ice), 1515 ((2) NaHSO4 + (1) Methanol), 1516 (4 C), 1517 (4 C), 1518 ((2) NaHSO4 + (1) Methanol) (9)	R4-83	09/14/2010	✓
R4-83-D-SWA-09142010	WATER/ B. MALONE		Total Metals, VOC, SVOC, Alkyl PAHs, TPH-DRO/ORO, TPH-GRO	1570 (HNO3 pH<2), 1571 (HCl pH < 2), 1572 (4 C), 1573 (4 C), 1574 (4 C), 1575 (HCl pH < 2) (13)	R4-83	09/14/2010	
R4-83-D-SWB-09142010	WATER/ B. MALONE		Total Metals, VOC, SVOC, Alkyl PAHs, TPH-DRO/ORO, TPH-GRO	1577 (HNO3 pH<2), 1578 (HCl pH < 2), 1579 (4 C), 1580 (4 C), 1581 (4 C), 1582 (HCl pH < 2) (13)	R4-83	09/14/2010	
R4-84-C-SD-09142010	SEDIMENT/ J. STEINAUER		% Moisture, VOC, TPH-DRO/ORO, Total Metals, TOC, SVOC, Alkyl PAHs, Ammonia, TPH-GRO	1522 (Ice), 1523 ((2) NaHSO4 + (1) Methanol), 1524 (4 C), 1525 (4 C), 1526 ((2) NaHSO4 + (1) Methanol) (9)	R4-84	09/14/2010	✓

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]		[illegible]	9/17/10	0845						

USEPA CLP Generic COC (LAB COPY)
DateShipped: 9/15/2010
CarrierName: HandDelivery
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: R04DW
Project Code:
Cooler #:

No: NIC60DAY-091410-002
Lab: ALS-Houston
Lab Contact: Kevin Given
Lab Phone: (281) 530-5656

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
R4-84-C-SWA-09142010	WATER/ J. STEINAUER		Total Metals, VOC, SVOC, Alkyl PAHs, TPH-DRO/ORO, TPH-GRO	1584 (HNO3 pH<2), 1585 (HCl pH < 2), 1586 (4 C), 1587 (4 C), 1588 (4 C), 1589 (HCl pH < 2) (13)	R4-84	09/14/2010	
R4-84-C-SWB-09142010	WATER/ J. STEINAUER		Total Metals, VOC, SVOC, Alkyl PAHs, TPH-DRO/ORO, TPH-GRO	1591 (HNO3 pH<2), 1592 (HCl pH < 2), 1593 (4 C), 1594 (4 C), 1595 (4 C), 1596 (HCl pH < 2) (13)	R4-84	09/14/2010	
R4-8-B-SD-09142010	SEDIMENT/ B. BOL		% Moisture, VOC, TPH-DRO/ORO, Total Metals, TOC, SVOC, Alkyl PAHs, Ammonia, TPH-GRO	1530 (Ice), 1531 ((2) NaHSO4 + (1) Methanol), 1532 (4 C), 1533 (4 C), 1534 ((2) NaHSO4 + (1) Methanol) (9)	R4-8	09/14/2010	✓
R4-8-B-SWA-09142010	WATER/ B. BOL		Total Metals, VOC, SVOC, Alkyl PAHs, TPH-DRO/ORO, TPH-GRO	1598 (HNO3 pH<2), 1599 (HCl pH < 2), 1600 (4 C), 1601 (4 C), 1602 (4 C), 1603 (HCl pH < 2) (13)	R4-8	09/14/2010	
R4-8-B-SWB-09142010	WATER/ B. BOL		Total Metals, VOC, SVOC, Alkyl PAHs, TPH-DRO/ORO, TPH-GRO	1605 (HNO3 pH<2), 1606 (HCl pH < 2), 1607 (4 C), 1608 (4 C), 1609 (4 C), 1610 (HCl pH < 2) (13)	R4-8	09/14/2010	
TS-09152010 RJ	~~Water~~ Soil		VOC TPH-GRO	RJ RJ		9/14/2010	
RJ ~~TPH Soil~~	Water		RJ ~~VOC~~ TPH-GRO/VOCs	2 x 40mL VOA (HCl)	NA	9/14/2010	
~~08/10-19~~ ~~TB1~~ ~~Water~~							
~~08/10-29~~ RJ PJ	~~Water~~		VOCs	~~2 x 40mL VOA (HCl)~~	~~NA~~	~~9/14/2010~~	
09152010							

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	CEG		[signature]	9/17/10	1845						

ALS Environmental

Sample Receipt Checklist

Client Name: **TTEMI-ATLANTA** Date/Time Received: **17-Sep-10 08:45**

Work Order: **1009543** Received by: **RDH**

Checklist completed by Robert D. Harris (eSignature) 17-Sep-10 (Date) Reviewed by: R. Kevin Green (eSignature) 18-Sep-10 (Date)

Matrices: sediments/waters
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☐	No ☑	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.3c,2.0c,3.4c,2.7c3.9c,3.7c,4.7c,2.8c,4.1c3.8c,3.3c	002	
Cooler(s)/Kit(s):	35783526,7106,3584,7020,3588,3611,3595,3613,7071		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: One 1L amber bottle broken for 1009543-02. Twelve VOA vials not received - no vials for 1009543-02, 1009543-16. Three vials missing for 1009543-10. No sample times on CoC, info taken from bottle labels.

Client Contacted: Date Contacted: Person Contacted:

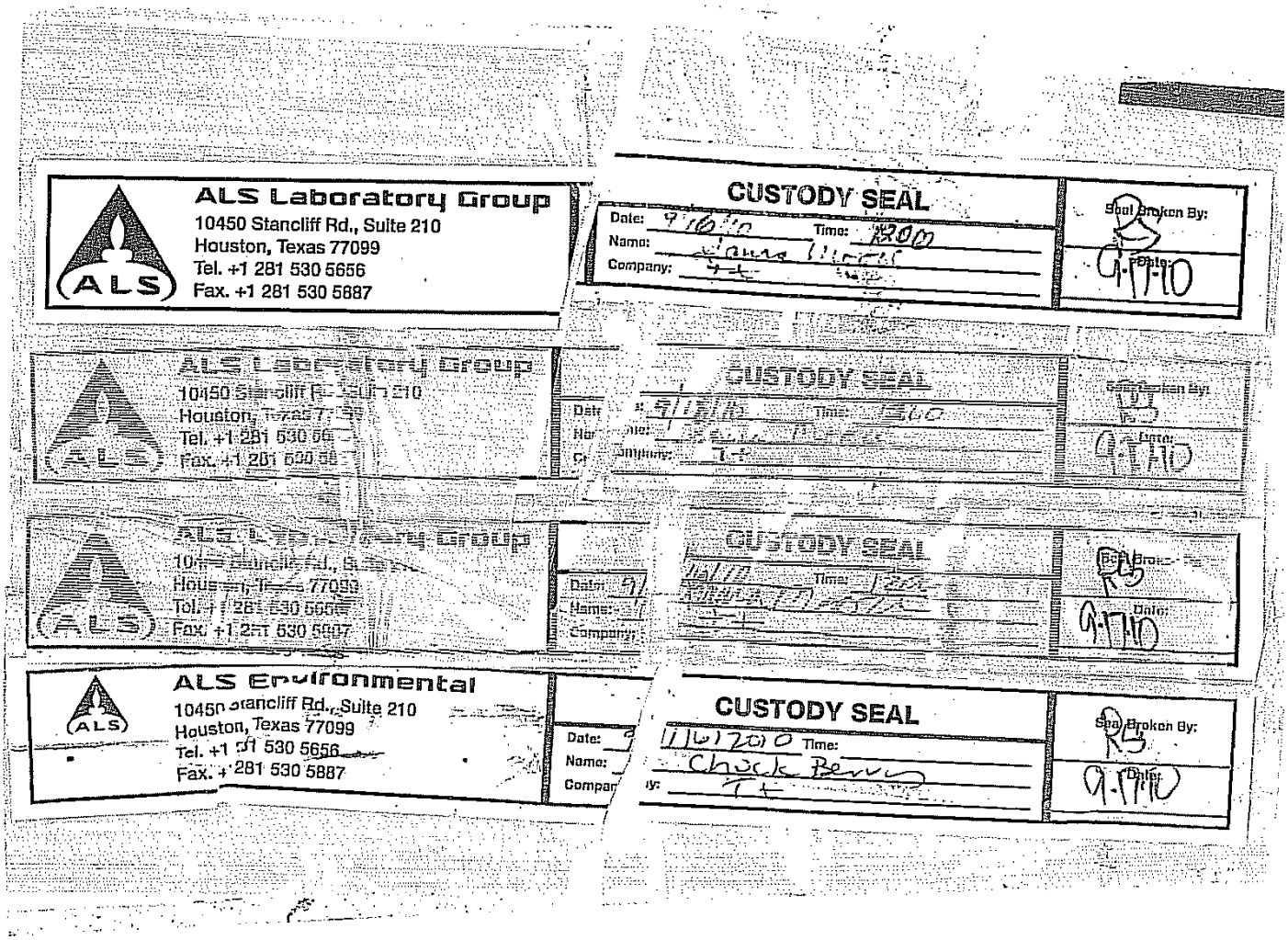
Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

1W0754S



ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 9/16/10 Time: 1300
Name: Laura Hirst
Company: ALS
Seal Broken By:
Date: 9-17-10

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 9/16/10 Time: 1500
Name:
Company: ALS
Seal Broken By:
Date: 9-17-10

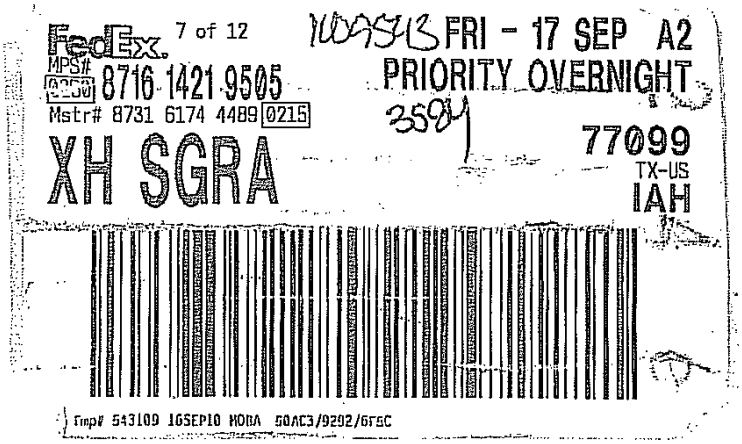
ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 9/16/10 Time: 1700
Name:
Company: ALS
Seal Broken By: RS
Date: 9-17-10

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 9/16/2010 Time:
Name: Chuck Berry
Company: ALS
Seal Broken By: RS
Date: 9-17-10

FedEx
PRIORITY OVERNIGHT 3596 FRI
Emp# 470311 23:19 16SEP10
Deliver By: 17SEP10
TRK# 8716 1421 9490 FORM 0260
IAH
77099 -TX-US
XH SGRA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PRIORITY OVERNIGHT
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77099
TX-US
IAH
XH SGRA
Emp# 543109 16SEP10 HORA 50AC3/9202/6F5C

FedEx
PRIORITY OVERNIGHT 3595 FRI
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Deliver By: 17SEP10
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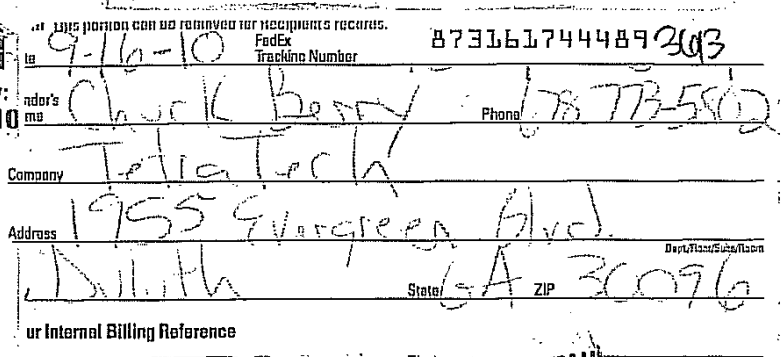
IAH
77099 -TX-US
XH SGRA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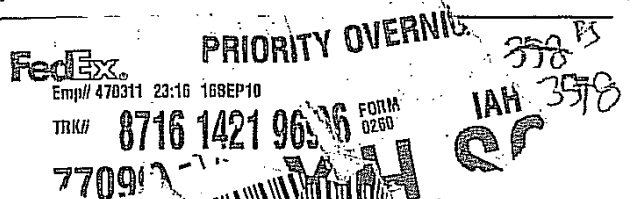
To 9-16-10
FedEx Tracking Number 873161744489 3593
Sender's Name Chuck Berry Phone 678 773-5802
Company Tetra Tech
Address 1955 Evergreen Blvd
Dept/Floor/Suite/Room
Duluth State GA ZIP 30096
Your Internal Billing Reference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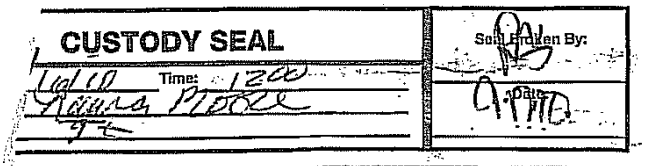
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
Date: 9/
Name:
Company: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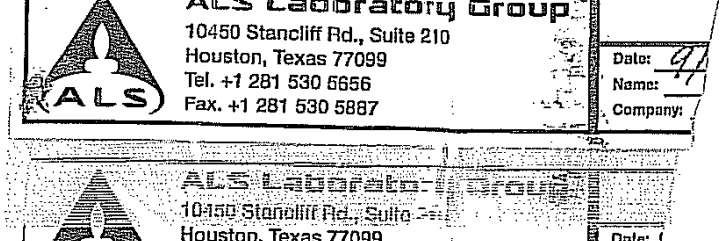
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Date:
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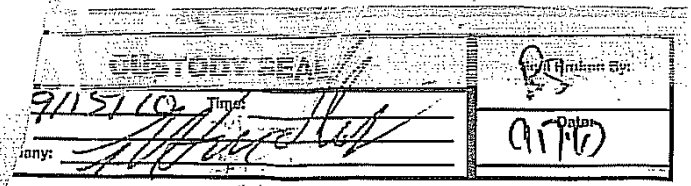
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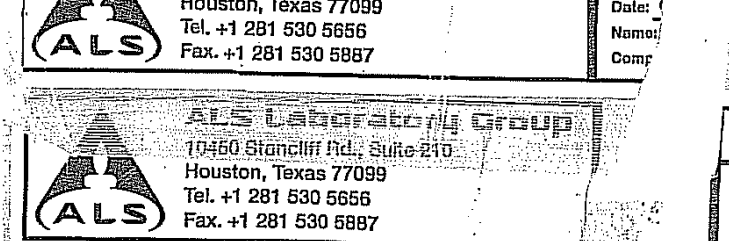
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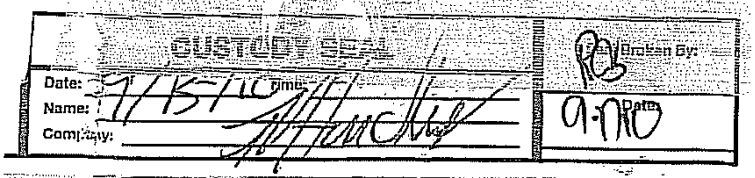
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Company:
Seal Broken By:
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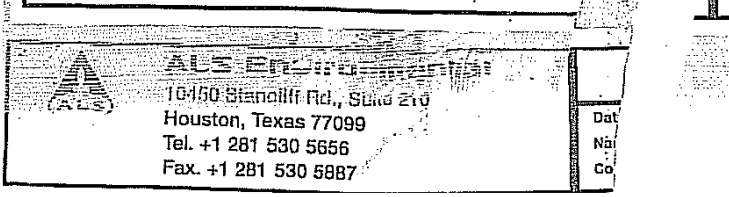
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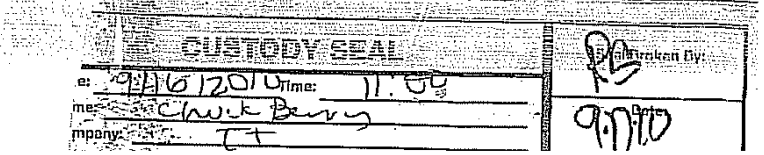
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Company: TT
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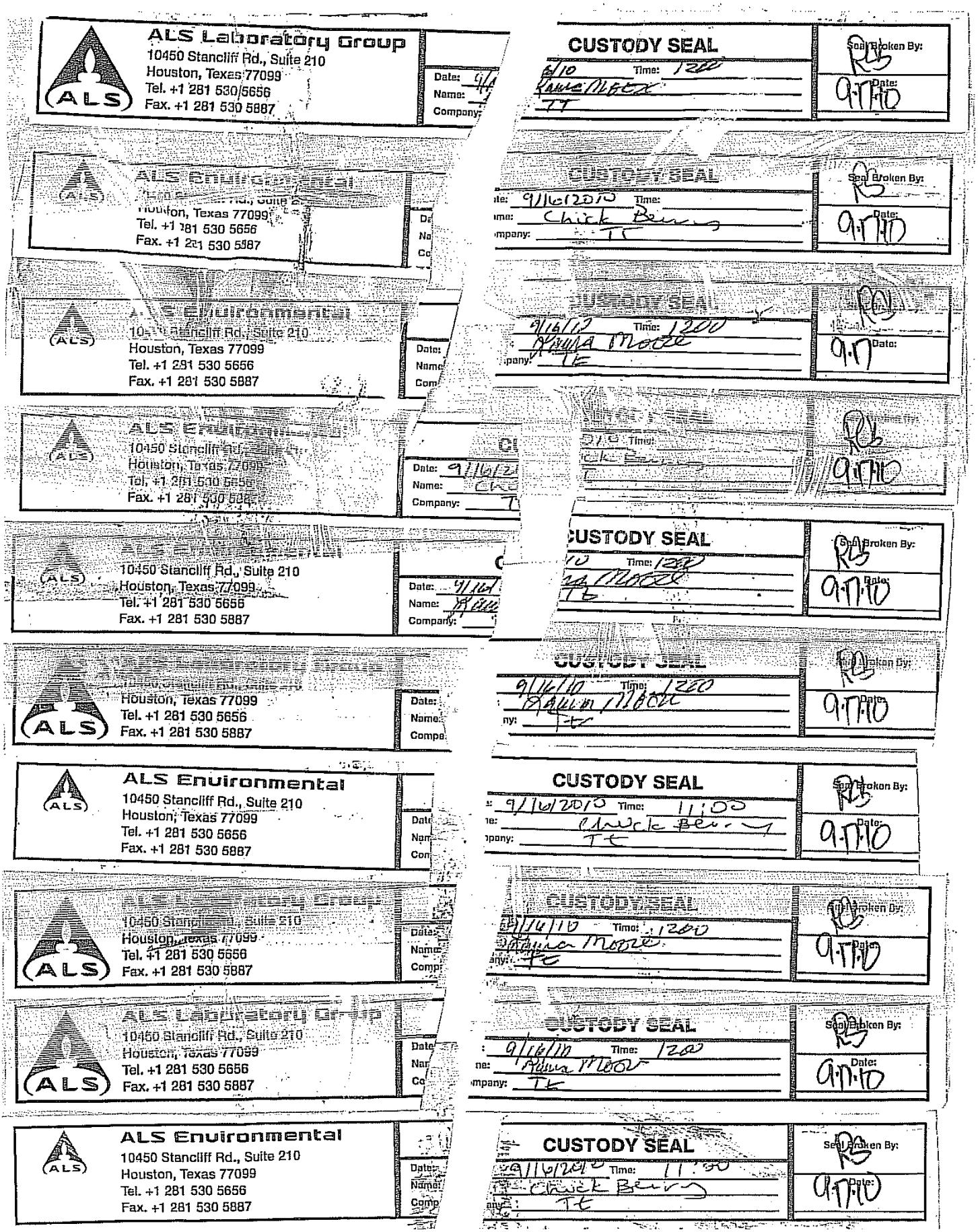
Date: 9-16-10



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CUSTODY SEAL
Time: 1200
Seal Broken By:
Date: 9-17-10

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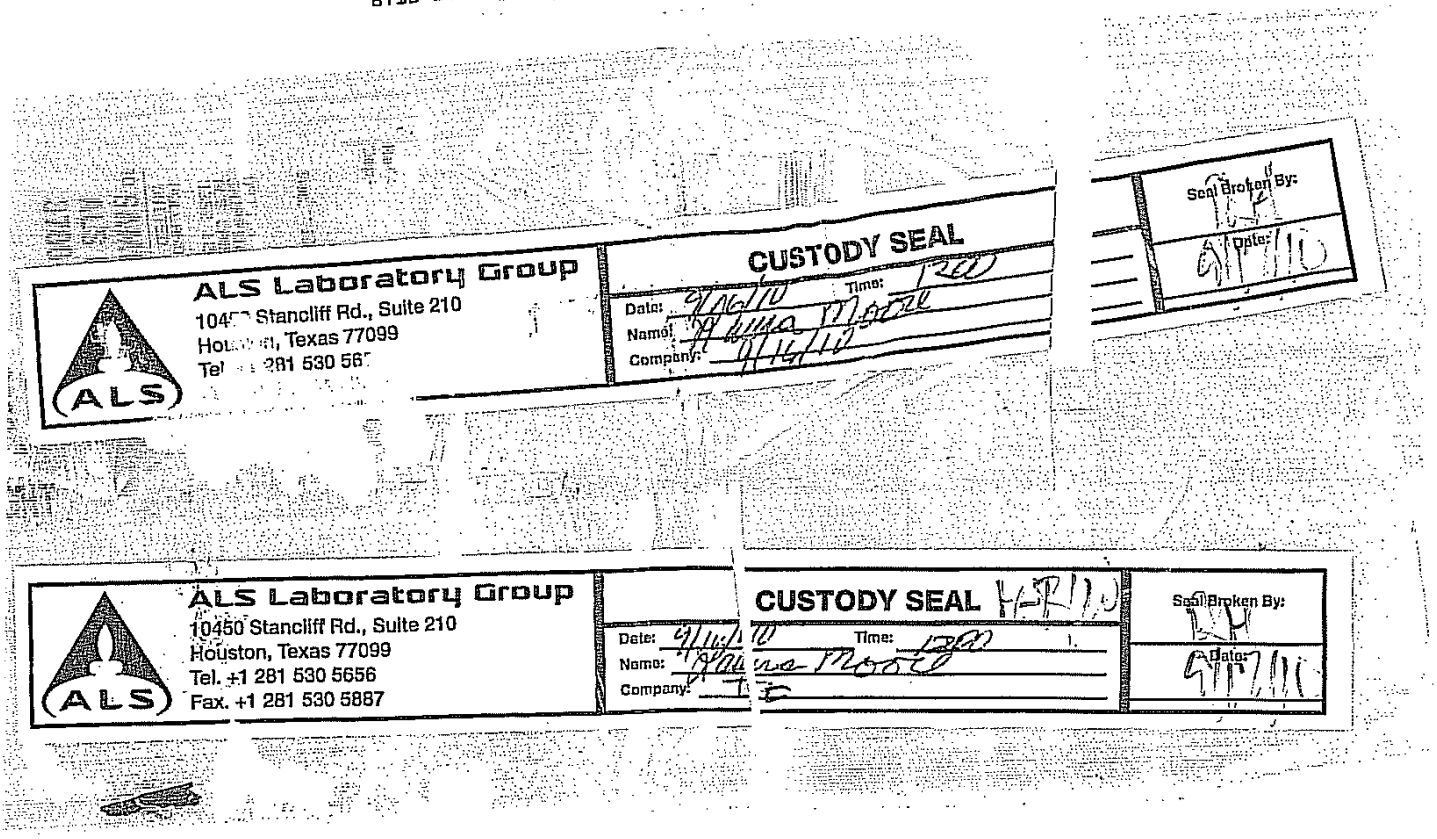

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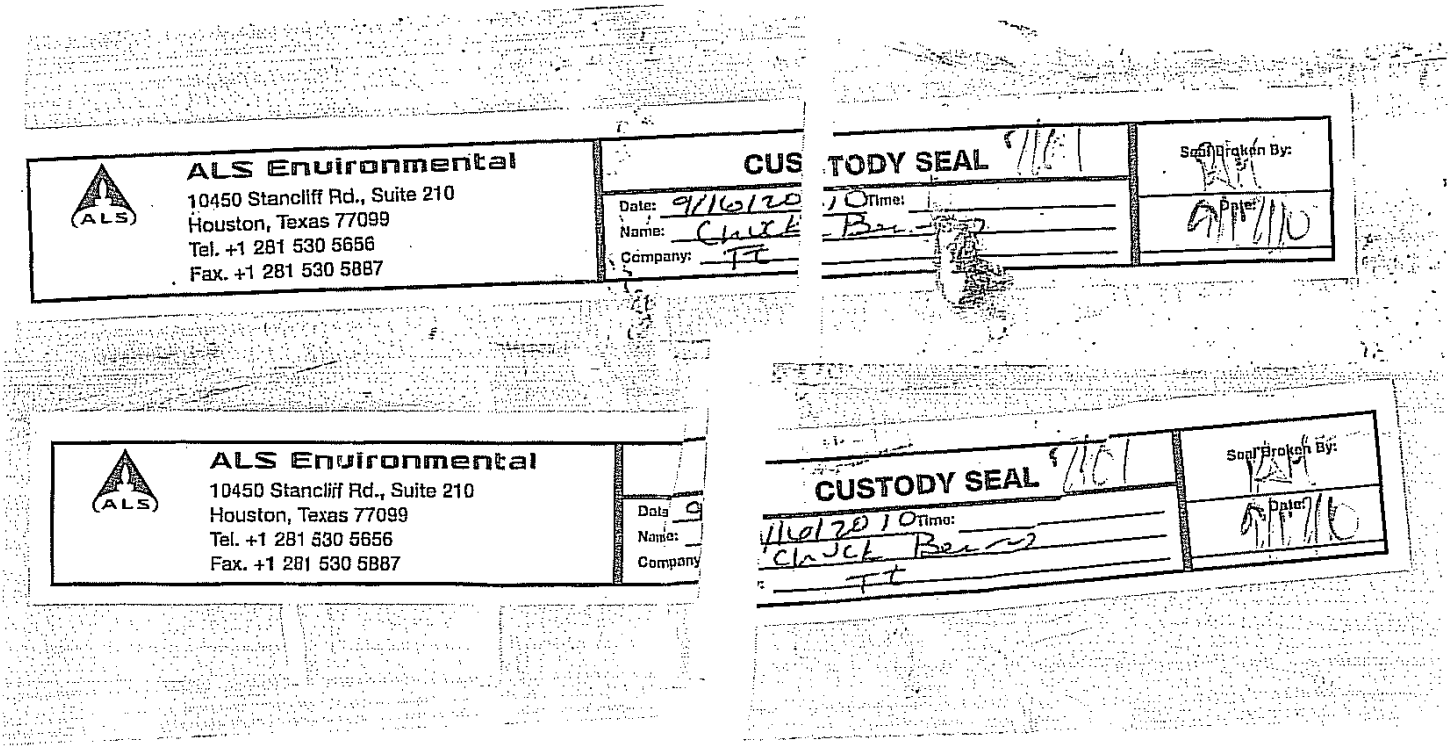

MDLs & MQLs

Tetra Tech EM, Inc.
R04DW
Work Order 1009543

ALS Environmental

Date: 22-Sep-10

WorkOrder: 1009543
Test Code: 8015_GRO_S
Test Number: SW8015
Test Name: Gasoline Range Organics

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	MDL	PQL
A	Gasoline Range Organics	PHC610GRO	0.02	0.05
S	Surr: 4-Bromofluorobenzene	460-00-4	0	0.005

WorkOrder: 1009543
Test Code: 8015_GRO_W
Test Number: SW8015
Test Name: Gasoline Range Organics **Matrix:** Aqueous **Units:** mg/L

METHOD DETECTION / REPORTING LIMITS

Type	Analyte	CAS	MDL	PQL
A	Gasoline Range Organics	PHC610GRO	0.02	0.05
S	Surr: 4-Bromofluorobenzene	460-00-4	0	0.005

ALS Environmental

Date: 22-Sep-10

WorkOrder: 1009543
Test Code: 8015Mod_S_LL
Test Number: SW8015M
Test Name: TPH DRO/ORO

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	MDL	PQL
A	TPH (Diesel Range)	TPHDIESEL	0.5	1.7
A	TPH (Oil Range)	PHCOIL	0.5	3.4
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0.1

ALS Environmental

Date: 22-Sep-10

WorkOrder: 1009543
Test Code: 8015Mod_W_LL
Test Number: SW8015M
Test Name: TPH DRO/ORO

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	MDL	PQL
A	TPH (Diesel Range)	TPHDIESEL	0.02	0.05
A	TPH (Oil Range)	PHCOIL	0.02	0.1
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0.005

ALS Environmental

Date: 22-Sep-10

WorkOrder: 1009543
Test Code: 8260_TCL4.3_S
Test Number: SW8260
Test Name: TCL Volatiles

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** µg/Kg

Type	Analyte	CAS	MDL	PQL
A	1,1,1-Trichloroethane	71-55-6	0.5	5
A	1,1,2,2-Tetrachloroethane	79-34-5	0.5	5
A	1,1,2-Trichlor-1,2,2-trifluoroethane	76-13-1	0.6	5
A	1,1,2-Trichloroethane	79-00-5	0.8	5
A	1,1-Dichloroethane	75-34-3	0.5	5
A	1,1-Dichloroethene	75-35-4	0.8	5
A	1,2,4-Trichlorobenzene	120-82-1	0.7	5
A	1,2-Dibromo-3-chloropropane	96-12-8	1.9	5
A	1,2-Dibromoethane	106-93-4	0.5	5
A	1,2-Dichlorobenzene	95-50-1	0.5	5
A	1,2-Dichloroethane	107-06-2	0.5	5
A	1,2-Dichloropropane	78-87-5	0.7	5
A	1,3-Dichlorobenzene	541-73-1	0.5	5
A	1,4-Dichlorobenzene	106-46-7	0.5	5
A	2-Butanone	78-93-3	1.9	10
A	2-Hexanone	591-78-6	1.1	10
A	4-Methyl-2-pentanone	108-10-1	1	10
A	Acetone	67-64-1	5	25
A	Benzene	71-43-2	0.5	5
A	Bromodichloromethane	75-27-4	0.5	5
A	Bromoform	75-25-2	0.8	10
A	Bromomethane	74-83-9	1	10
A	Carbon disulfide	75-15-0	1	10
A	Carbon tetrachloride	56-23-5	0.5	5
A	Chlorobenzene	108-90-7	0.5	5
A	Chloroethane	75-00-3	1	10
A	Chloroform	67-66-3	0.5	5
A	Chloromethane	74-87-3	1	10
A	cis-1,2-Dichloroethene	156-59-2	0.6	5
A	cis-1,3-Dichloropropene	10061-01-5	0.5	5
A	Cyclohexane	110-82-7	0.5	5
A	Dibromochloromethane	124-48-1	0.6	5
A	Dichlorodifluoromethane	75-71-8	0.8	5
A	Dichloromethane	75-09-2	1.4	10
A	Ethylbenzene	100-41-4	0.5	5
A	Isopropylbenzene	98-82-8	0.5	5
A	m,p-Xylene	179601-23-1	1	10
A	Methyl acetate	79-20-9	1.2	5
A	Methyl tert-butyl ether	1634-04-4	0.5	5
A	Methylcyclohexane	108-87-2	0.6	5

A	o-Xylene	95-47-6	0.5	5
A	Styrene	100-42-5	0.5	5
A	Tetrachloroethene	127-18-4	0.6	5
A	Toluene	108-88-3	0.5	5
A	trans-1,2-Dichloroethene	156-60-5	0.5	5
A	trans-1,3-Dichloropropene	10061-02-6	0.5	5
A	Trichloroethene	79-01-6	0.5	5
A	Trichlorofluoromethane	75-69-4	0.5	5
A	Vinyl chloride	75-01-4	1	2
M	Xylenes, Total	1330-20-7	1	15
S	Surr: 1,2-Dichloroethane-d4	17060-07-0	0	5
S	Surr: 4-Bromofluorobenzene	460-00-4	0	5
S	Surr: Dibromofluoromethane	1868-53-7	0	5
S	Surr: Toluene-d8	2037-26-5	0	5

ALS Environmental

Date: 22-Sep-10

WorkOrder: 1009543
Test Code: 8260_TCL4.3_W
Test Number: SW8260
Test Name: TCL Volatiles

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** µg/L

Type	Analyte	CAS	MDL	PQL
A	1,1,1-Trichloroethane	71-55-6	0.5	5
A	1,1,2,2-Tetrachloroethane	79-34-5	0.5	5
A	1,1,2-Trichlor-1,2,2-trifluoroethane	76-13-1	0.6	5
A	1,1,2-Trichloroethane	79-00-5	0.5	5
A	1,1-Dichloroethane	75-34-3	0.5	5
A	1,1-Dichloroethene	75-35-4	0.5	5
A	1,2,4-Trichlorobenzene	120-82-1	0.5	5
A	1,2-Dibromo-3-chloropropane	96-12-8	1	5
A	1,2-Dibromoethane	106-93-4	0.5	5
A	1,2-Dichlorobenzene	95-50-1	0.5	5
A	1,2-Dichloroethane	107-06-2	0.5	5
A	1,2-Dichloropropane	78-87-5	0.5	5
A	1,3-Dichlorobenzene	541-73-1	0.5	5
A	1,4-Dichlorobenzene	106-46-7	0.5	5
A	2-Butanone	78-93-3	0.8	10
A	2-Hexanone	591-78-6	1	10
A	4-Methyl-2-pentanone	108-10-1	1	10
A	Acetone	67-64-1	1	10
A	Benzene	71-43-2	0.5	5
A	Bromodichloromethane	75-27-4	0.5	5
A	Bromoform	75-25-2	0.5	5
A	Bromomethane	74-83-9	0.9	5
A	Carbon disulfide	75-15-0	1	10
A	Carbon tetrachloride	56-23-5	0.5	5
A	Chlorobenzene	108-90-7	0.5	5
A	Chloroethane	75-00-3	0.5	5
A	Chloroform	67-66-3	0.5	5
A	Chloromethane	74-87-3	0.5	5
A	cis-1,2-Dichloroethene	156-59-2	0.5	5
A	cis-1,3-Dichloropropene	10061-01-5	0.5	5
A	Cyclohexane	110-82-7	0.6	5
A	Dibromochloromethane	124-48-1	0.5	5
A	Dichlorodifluoromethane	75-71-8	0.5	5
A	Dichloromethane	75-09-2	0.5	10
A	Ethylbenzene	100-41-4	0.5	5
A	Isopropylbenzene	98-82-8	0.5	5
A	m,p-Xylene	179601-23-1	1	10
A	Methyl acetate	79-20-9	0.5	5
A	Methyl tert-butyl ether	1634-04-4	0.5	5
A	Methylcyclohexane	108-87-2	0.8	5

A	o-Xylene	95-47-6	0.5	5
A	Styrene	100-42-5	0.5	5
A	Tetrachloroethene	127-18-4	0.6	5
A	Toluene	108-88-3	0.5	5
A	trans-1,2-Dichloroethene	156-60-5	0.5	5
A	trans-1,3-Dichloropropene	10061-02-6	0.5	5
A	Trichloroethene	79-01-6	0.5	5
A	Trichlorofluoromethane	75-69-4	0.5	5
A	Vinyl chloride	75-01-4	0.5	2
M	Xylenes, Total	1330-20-7	1	15
S	Surr: 1,2-Dichloroethane-d4	17060-07-0	0	5
S	Surr: 4-Bromofluorobenzene	460-00-4	0	5
S	Surr: Dibromofluoromethane	1868-53-7	0	5
S	Surr: Toluene-d8	2037-26-5	0	5

WorkOrder: 1009543
Test Code: 8270_ALKPAH_S
Test Number: SW8270SIM
Test Name: PARENT/ALKYL PAHs

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** ug/Kg

Type	Analyte	CAS	MDL	PQL
A	1-Methylnaphthalene	90-12-0	2	3.3
A	2-Methylnaphthalene	91-57-6	2	3.3
A	2-Methylnaphthalene-d10	07297-45-2	2	3.3
A	Acenaphthene	83-32-9	2	3.3
A	Acenaphthylene	208-96-8	2	3.3
A	Anthracene	120-12-7	2	3.3
A	Benz(a)anthracene	56-55-3	2	3.3
A	Benzo(a)pyrene	50-32-8	2	3.3
A	Benzo(b)fluoranthene	205-99-2	2	3.3
A	Benzo(e)pyrene	00192-97-2	2	3.3
A	Benzo(g,h,i)perylene	191-24-2	2	3.3
A	Benzo(k)fluoranthene	207-08-9	2	3.3
A	C1-Chrysenes	C1CHRYS	2	3.3
A	C1-Fluoranthenes/Pyrenes	C1FLOURPY	2	3.3
A	C1-Fluorenes	C1FLUOR	2	3.3
A	C1-Phenanthrenes/anthracenes	C1PHEN	2	3.3
A	C2-Chrysenes	C2CHRYS	2	3.3
A	C2-Fluoranthenes/Pyrenes	C2FLOURPY	2	3.3
A	C2-Fluorenes	C2FLUOR	2	3.3
A	C2-naphthalenes	C2NAPTH	2	3.3
A	C2-Phenanthrenes/anthracenes	C2PHEN	2	3.3
A	C3-Chrysenes	C3CHRYS	2	3.3
A	C3-Fluoranthenes/Pyrenes	C3FLOURPY	2	3.3
A	C3-Fluorenes	C3FLUOR	2	3.3
A	C3-naphthalenes	C3NAPTH	2	3.3
A	C3-Phenanthrenes/anthracenes	C3PHEN	2	3.3
A	C4-Chrysenes	C4CHRYS	2	3.3
A	C4-Naphthalenes	C4NAPTH	2	3.3
A	C4-Phenanthrenes/anthracenes	C4PHEN	2	3.3
A	Chrysene	218-01-9	2	3.3
A	Dibenz(a,h)anthracene	53-70-3	2	3.3
A	Fluoranthene	206-44-0	2	3.3
A	Fluorene	86-73-7	2	3.3
A	Indeno(1,2,3-cd)pyrene	193-39-5	2	3.3
A	Naphthalene	91-20-3	2	3.3
A	Perylene	00198-55-0	2	3.3
A	Phenanthrene	85-01-8	2	3.3
A	Pyrene	129-00-0	2	3.3
S	Surr: Acenaphthylene-d8	93951-97-4	0	3.3
S	Surr: Anthracene-d10	1719-06-8	0	3.3

S	Surr: Benzo(a)pyrene-d12	634166-71-7	0	3.3
S	Surr: Pyrene-d10	01718-52-1	0	3.3

WorkOrder: 1009543
Test Code: 8270_ALKPAH_W
Test Number: SW8270SIM
Test Name: PARENT/ALKYL PAH

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	MDL	PQL
A	1-Methylnaphthalene	90-12-0	0.05	0.1
A	2-Methylnaphthalene	91-57-6	0.05	0.1
A	2-Methylnaphthalene-d10	07297-45-2	0.05	0.1
A	Acenaphthene	83-32-9	0.05	0.1
A	Acenaphthylene	208-96-8	0.05	0.1
A	Anthracene	120-12-7	0.05	0.1
A	Benz(a)anthracene	56-55-3	0.05	0.1
A	Benzo(a)pyrene	50-32-8	0.05	0.1
A	Benzo(b)fluoranthene	205-99-2	0.05	0.1
A	Benzo(e)pyrene	00192-97-2	0.05	0.1
A	Benzo(g,h,i)perylene	191-24-2	0.05	0.1
A	Benzo(k)fluoranthene	207-08-9	0.05	0.1
A	C1-Chrysenes	C1CHRYS	0.05	0.1
A	C1-Fluoranthenes/Pyrenes	C1FLOURPY	0.05	0.1
A	C1-Fluorenes	C1FLUOR	0.05	0.1
A	C1-Phenanthrenes/anthracenes	C1PHEN	0.05	0.1
A	C2-Chrysenes	C2CHRYS	0.05	0.1
A	C2-Fluoranthenes/Pyrenes	C2FLOURPY	0.05	0.1
A	C2-Fluorenes	C2FLUOR	0.05	0.1
A	C2-naphthalenes	C2NAPTH	0.05	0.1
A	C2-Phenanthrenes/anthracenes	C2PHEN	0.05	0.1
A	C3-Chrysenes	C3CHRYS	0.05	0.1
A	C3-Fluoranthenes/Pyrenes	C3FLOURPY	0.05	0.1
A	C3-Fluorenes	C3FLUOR	0.05	0.1
A	C3-naphthalenes	C3NAPTH	0.05	0.1
A	C3-Phenanthrenes/anthracenes	C3PHEN	0.05	0.1
A	C4-Chrysenes	C4CHRYS	0.05	0.1
A	C4-Naphthalenes	C4NAPTH	0.05	0.1
A	C4-Phenanthrenes/anthracenes	C4PHEN	0.05	0.1
A	Chrysene	218-01-9	0.05	0.1
A	Dibenz(a,h)anthracene	53-70-3	0.05	0.1
A	Fluoranthene	206-44-0	0.05	0.1
A	Fluorene	86-73-7	0.05	0.1
A	Indeno(1,2,3-cd)pyrene	193-39-5	0.05	0.1
A	Naphthalene	91-20-3	0.05	0.1
A	Perylene	00198-55-0	0.05	0.1
A	Phenanthrene	85-01-8	0.05	0.1
A	Pyrene	129-00-0	0.05	0.1
S	Surr: Acenaphthylene-d8	93951-97-4	0	0.1
S	Surr: Anthracene-d10	1719-06-8	0	0.1

S	Surr: Benzo(a)pyrene-d12	634166-71-7	0	0.1
S	Surr: Pyrene-d10	01718-52-1	0	0.1

ALS Environmental

Date: 22-Sep-10

WorkOrder: 1009543
Test Code: 8270_LLTCL4.3_S
Test Number: SW8270
Test Name: Low-Level Semivolatiles

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** µg/Kg

Type	Analyte	CAS	MDL	PQL
A	1,1'-Biphenyl	92-52-4	2.9	6.6
A	2,4,5-Trichlorophenol	95-95-4	2.8	6.6
A	2,4,6-Trichlorophenol	88-06-2	3.3	6.6
A	2,4-Dichlorophenol	120-83-2	2.2	6.6
A	2,4-Dimethylphenol	105-67-9	3.3	6.6
A	2,4-Dinitrophenol	51-28-5	3.3	33
A	2,4-Dinitrotoluene	121-14-2	3.3	6.6
A	2,6-Dinitrotoluene	606-20-2	3.2	6.6
A	2-Chloronaphthalene	91-58-7	4.1	6.6
A	2-Chlorophenol	95-57-8	3.2	6.6
A	2-Methylnaphthalene	91-57-6	2.7	6.6
A	2-Methylphenol	95-48-7	2.9	6.6
A	2-Nitroaniline	88-74-4	3.3	6.6
A	2-Nitrophenol	88-75-5	4.6	6.6
A	3&4-Methylphenol	106-44-5	2.8	6.6
A	3,3'-Dichlorobenzidine	91-94-1	3.1	6.6
A	3-Nitroaniline	99-09-2	2.6	6.6
A	4,6-Dinitro-2-methylphenol	534-52-1	3.3	6.6
A	4-Bromophenyl phenyl ether	101-55-3	3.3	6.6
A	4-Chloro-3-methylphenol	59-50-7	3.3	6.6
A	4-Chloroaniline	106-47-8	2.2	6.6
A	4-Chlorophenyl phenyl ether	7005-72-3	2.2	6.6
A	4-Nitroaniline	100-01-6	3.3	6.6
A	4-Nitrophenol	100-02-7	3.8	33
A	Acenaphthene	83-32-9	2.2	6.6
A	Acenaphthylene	208-96-8	2.2	6.6
A	Acetophenone	98-86-2	2.4	6.6
A	Anthracene	120-12-7	2.2	6.6
A	Atrazine	1912-24-9	3.3	6.6
A	Benz(a)anthracene	56-55-3	2.8	6.6
A	Benzaldehyde	100-52-7	4.6	6.6
A	Benzo(a)pyrene	50-32-8	2.3	6.6
A	Benzo(b)fluoranthene	205-99-2	3.3	6.6
A	Benzo(g,h,i)perylene	191-24-2	2.9	6.6
A	Benzo(k)fluoranthene	207-08-9	3.3	6.6
A	Bis(2-chloroethoxy)methane	111-91-1	2.4	6.6
A	Bis(2-chloroethyl)ether	111-44-4	2.8	6.6
A	Bis(2-chloroisopropyl)ether	108-60-1	2.7	6.6
A	Bis(2-ethylhexyl)phthalate	117-81-7	6.6	6.6
A	Butyl benzyl phthalate	85-68-7	2.5	6.6

A	Caprolactam	105-60-2	2.4	6.6
A	Carbazole	86-74-8	2.2	6.6
A	Chrysene	218-01-9	2.9	6.6
A	Di-n-butyl phthalate	84-74-2	2.5	6.6
A	Di-n-octyl phthalate	117-84-0	2.9	6.6
A	Dibenz(a,h)anthracene	53-70-3	2.2	6.6
A	Dibenzofuran	132-64-9	2.2	6.6
A	Diethyl phthalate	84-66-2	3.3	6.6
A	Dimethyl phthalate	131-11-3	2.4	6.6
A	Fluoranthene	206-44-0	2.2	6.6
A	Fluorene	86-73-7	2.2	6.6
A	Hexachlorobenzene	118-74-1	2.6	6.6
A	Hexachlorobutadiene	87-68-3	4.4	6.6
A	Hexachlorocyclopentadiene	77-47-4	3.6	6.6
A	Hexachloroethane	67-72-1	3.9	6.6
A	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	6.6
A	Isophorone	78-59-1	3	6.6
A	N-Nitrosodi-n-propylamine	621-64-7	4	6.6
A	N-Nitrosodiphenylamine	86-30-6	2.2	6.6
A	Naphthalene	91-20-3	3.3	6.6
A	Nitrobenzene	98-95-3	3.3	6.6
A	Pentachlorophenol	87-86-5	2.8	6.6
A	Phenanthrene	85-01-8	3	6.6
A	Phenol	108-95-2	3.3	6.6
A	Pyrene	129-00-0	2.2	6.6
S	Surr: 2,4,6-Tribromophenol	118-79-6	0	6.6
S	Surr: 2-Fluorobiphenyl	321-60-8	0	6.6
S	Surr: 2-Fluorophenol	367-12-4	0	6.6
S	Surr: 4-Terphenyl-d14	1718-51-0	0	6.6
S	Surr: Nitrobenzene-d5	4165-60-0	0	6.6
S	Surr: Phenol-d6	13127-88-3	0	6.6

WorkOrder: 1009543
Test Code: 8270_LLTCL4.3_W
Test Number: SW8270
Test Name: Low-Level Semivolatiles

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** µg/L

Type	Analyte	CAS	MDL	PQL
A	1,1'-Biphenyl	92-52-4	0.1	0.2
A	2,4,5-Trichlorophenol	95-95-4	0.09	0.2
A	2,4,6-Trichlorophenol	88-06-2	0.07	0.2
A	2,4-Dichlorophenol	120-83-2	0.08	0.2
A	2,4-Dimethylphenol	105-67-9	0.08	0.2
A	2,4-Dinitrophenol	51-28-5	0.08	1
A	2,4-Dinitrotoluene	121-14-2	0.09	0.2
A	2,6-Dinitrotoluene	606-20-2	0.07	0.2
A	2-Chloronaphthalene	91-58-7	0.1	0.2
A	2-Chlorophenol	95-57-8	0.08	0.2
A	2-Methylnaphthalene	91-57-6	0.07	0.2
A	2-Methylphenol	95-48-7	0.08	0.2
A	2-Nitroaniline	88-74-4	0.1	0.2
A	2-Nitrophenol	88-75-5	0.07	0.2
A	3&4-Methylphenol	106-44-5	0.1	0.2
A	3,3'-Dichlorobenzidine	91-94-1	0.07	0.2
A	3-Nitroaniline	99-09-2	0.08	0.2
A	4,6-Dinitro-2-methylphenol	534-52-1	0.08	0.2
A	4-Bromophenyl phenyl ether	101-55-3	0.09	0.2
A	4-Chloro-3-methylphenol	59-50-7	0.1	0.2
A	4-Chloroaniline	106-47-8	0.07	0.2
A	4-Chlorophenyl phenyl ether	7005-72-3	0.08	0.2
A	4-Nitroaniline	100-01-6	0.07	0.2
A	4-Nitrophenol	100-02-7	0.07	1
A	Acenaphthene	83-32-9	0.09	0.2
A	Acenaphthylene	208-96-8	0.07	0.2
A	Acetophenone	98-86-2	0.1	0.2
A	Anthracene	120-12-7	0.07	0.2
A	Atrazine	1912-24-9	0.08	0.2
A	Benz(a)anthracene	56-55-3	0.07	0.2
A	Benzaldehyde	100-52-7	0.12	0.2
A	Benzo(a)pyrene	50-32-8	0.08	0.2
A	Benzo(b)fluoranthene	205-99-2	0.09	0.2
A	Benzo(g,h,i)perylene	191-24-2	0.09	0.2
A	Benzo(k)fluoranthene	207-08-9	0.1	0.2
A	Bis(2-chloroethoxy)methane	111-91-1	0.09	0.2
A	Bis(2-chloroethyl)ether	111-44-4	0.07	0.2
A	Bis(2-chloroisopropyl)ether	108-60-1	0.07	0.2
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.2	0.2
A	Butyl benzyl phthalate	85-68-7	0.1	0.2

A	Caprolactam	105-60-2	0.08	0.2
A	Carbazole	86-74-8	0.07	0.2
A	Chrysene	218-01-9	0.07	0.2
A	Di-n-butyl phthalate	84-74-2	0.07	0.2
A	Di-n-octyl phthalate	117-84-0	0.11	0.2
A	Dibenz(a,h)anthracene	53-70-3	0.08	0.2
A	Dibenzofuran	132-64-9	0.08	0.2
A	Diethyl phthalate	84-66-2	0.07	0.2
A	Dimethyl phthalate	131-11-3	0.1	0.2
A	Fluoranthene	206-44-0	0.07	0.2
A	Fluorene	86-73-7	0.07	0.2
A	Hexachlorobenzene	118-74-1	0.1	0.2
A	Hexachlorobutadiene	87-68-3	0.15	0.2
A	Hexachlorocyclopentadiene	77-47-4	0.08	0.2
A	Hexachloroethane	67-72-1	0.17	0.2
A	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	0.2
A	Isophorone	78-59-1	0.07	0.2
A	N-Nitrosodi-n-propylamine	621-64-7	0.1	0.2
A	N-Nitrosodiphenylamine	86-30-6	0.09	0.2
A	Naphthalene	91-20-3	0.1	0.2
A	Nitrobenzene	98-95-3	0.09	0.2
A	Pentachlorophenol	87-86-5	0.08	0.2
A	Phenanthrene	85-01-8	0.07	0.2
A	Phenol	108-95-2	0.07	0.2
A	Pyrene	129-00-0	0.07	0.2
S	Surr: 2,4,6-Tribromophenol	118-79-6	0	0.2
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0.2
S	Surr: 2-Fluorophenol	367-12-4	0	0.2
S	Surr: 4-Terphenyl-d14	1718-51-0	0	0.2
S	Surr: Nitrobenzene-d5	4165-60-0	0	0.2
S	Surr: Phenol-d6	13127-88-3	0	0.2

ALS Environmental **Date:** 22-Sep-10

WorkOrder: 1009543
Test Code: HG_S_LOW
Test Number: SW7471A
Test Name: Mercury

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** µg/Kg

Type	Analyte	CAS	MDL	PQL
A	Mercury	7439-97-6	0.1995	3.325

WorkOrder: 1009543
Test Code: HG_W
Test Number: SW7470
Test Name: Mercury

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	MDL	PQL
A	Mercury	7439-97-6	0.000042	0.0002

WorkOrder: 1009543
Test Code: ICP_S_Low
Test Number: SW6020
Test Name: Metals

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	MDL	PQL
A	Aluminum	7429-90-5	0.2	1
A	Antimony	7440-36-0	0.25	0.5
A	Arsenic	7440-38-2	0.06	0.5
A	Barium	7440-39-3	0.08	0.5
A	Beryllium	7440-41-7	0.05	0.5
A	Cadmium	7440-43-9	0.04	0.5
A	Calcium	7440-70-2	10	50
A	Chromium	7440-47-3	0.05	0.5
A	Cobalt	7440-48-4	0.03	0.5
A	Copper	7440-50-8	0.14	0.5
A	Iron	7439-89-6	4	50
A	Lead	7439-92-1	0.05	0.5
A	Magnesium	7439-95-4	3.3	50
A	Manganese	7439-96-5	0.07	0.5
A	Nickel	7440-02-0	0.06	0.5
A	Potassium	7440-09-7	3.6	50
A	Selenium	7782-49-2	0.25	0.5
A	Silver	7440-22-4	0.04	0.5
A	Sodium	7440-23-5	4	50
A	Thallium	7440-28-0	0.07	0.5
A	Vanadium	7440-62-2	0.07	0.5
A	Zinc	7440-66-6	0.25	0.5

WorkOrder: 1009543
Test Code: ICP_TW
Test Number: SW6020
Test Name: Metals

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	MDL	PQL
A	Aluminum	7429-90-5	0.0037	0.01
A	Antimony	7440-36-0	0.0005	0.005
A	Arsenic	7440-38-2	0.0009	0.005
A	Barium	7440-39-3	0.0007	0.005
A	Beryllium	7440-41-7	0.0003	0.002
A	Cadmium	7440-43-9	0.0006	0.002
A	Calcium	7440-70-2	0.05	0.5
A	Chromium	7440-47-3	0.0006	0.005
A	Cobalt	7440-48-4	0.0005	0.005
A	Copper	7440-50-8	0.0005	0.005
A	Iron	7439-89-6	0.036	0.2
A	Lead	7439-92-1	0.0004	0.005
A	Magnesium	7439-95-4	0.039	0.2
A	Manganese	7439-96-5	0.0008	0.005
A	Nickel	7440-02-0	0.0014	0.005
A	Potassium	7440-09-7	0.1	0.2
A	Selenium	7782-49-2	0.0025	0.005
A	Silver	7440-22-4	0.0007	0.005
A	Sodium	7440-23-5	0.1	0.2
A	Thallium	7440-28-0	0.0008	0.002
A	Vanadium	7440-62-2	0.0007	0.005
A	Zinc	7440-66-6	0.0025	0.005

WorkOrder: 1009543
Test Code: MOISTURE
Test Number: E160.3
Test Name: Moisture

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** wt%

Type	Analyte	CAS	MDL	PQL
A	Percent Moisture	MOIST	0.01	0.01

WorkOrder: 1009543
Test Code: NIT_ AMMON_S
Test Number: SM4500 NH3-B-F
Test Name: Ammonia as N

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	MDL	PQL
A	Nitrogen, Ammonia (as N)	7727-37-9	0.25	1.3

ALS Environmental

Date: 22-Sep-10

WorkOrder: 1009543
Test Code: TOC_S_WB
Test Number: WALKLEY-BLACK
Test Name: Total Organic Carbon

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** wt%

Type	Analyte	CAS	MDL	PQL
A	Total Organic Carbon	TOC	0.02	0.02

ALS Environmental **Date:** 22-Sep-10

WorkOrder: 1009543
Test Code: XXX SUB
Test Number: NA
Test Name: Miscellaneous Analysis

METHOD DETECTION / REPORTING LIMITS

Matrix: **Units:** mg/Kg

Type	Analyte	CAS	MDL	PQL
A	Miscellaneous Analysis		0	0

Volatiles Raw Data

Tetra Tech EM, Inc.
R04DW
Work Order 1009543

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER #	TOT OUT
01	VLCSW-091710	96	91	99	97	0
02	VLCSDW-09171	97	90	101	98	0
03	VBLKW-091710	100	98	99	94	0
04	1009543-04A	112	123	103	97	0
05	1009543-07A	112	122	102	96	0
06	1009543-10A	108	122	97	91	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(71-126)
SMC3 (TOL)	= Toluene-d8	(75-125)
OTHER	= 4-Bromofluorobenzene	(74-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER #	TOT OUT
01	VLCSW-091810	100	99	99	100	0
02	VLCSDW-09181	100	96	98	99	0
03	VBLKW-091810	104	108	100	96	0
04	1009543-05A	106	110	97	93	0
05	1009543-08A	107	117	98	92	0
06	1009543-11A	107	118	98	91	0
07	1009543-13A	100	90	99	92	0
08	1009543-14A	104	102	101	96	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(71-126)
SMC3 (TOL)	= Toluene-d8	(75-125)
OTHER	= 4-Bromofluorobenzene	(74-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER #	TOT OUT
01	VLCSW-092110	98	94	99	98	0
02	VLCSDW-09211	100	95	99	98	0
03	VBLKW-092110	104	104	100	92	0
04	1009543-02A	108	113	100	92	0
05	1009543-16A	109	112	100	93	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(71-126)
SMC3 (TOL)	= Toluene-d8	(75-125)
OTHER	= 4-Bromofluorobenzene	(74-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER #	TOT OUT
01	VLCSS1-09181	108	106	102	103	0
02	VLCSDS1-0918	107	104	102	102	0
03	VBLKS1-09181	104	106	102	102	0
04	1009543-15A	103	108	102	103	0
05	1009543-09A	108	107	102	102	0
06	1009543-06A	111	112	102	104	0
07	1009543-01A	110	109	105	96	0
08	1009543-03A	110	109	105	95	0
09	1009543-12A	113	113	102	99	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(71-128)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(70-128)
SMC3 (TOL)	= Toluene-d8	(73-127)
OTHER	= 4-Bromofluorobenzene	(73-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Sequence #: D091710	IS ID: 23210-18-2	Method ID: 8260 / 624	SOP ID: MSV-001 / MSV-002
Cal STD ID: 23210-17-1/18-1	ICV StD ID 23210-55-01	LCS/MS ID: 23210-55/54/53	Surr. ID: 23210-18-3

File ID	WO #	SX #	pH	Soil/ Water	Sample-Vol Wt (ml or g)	Purge Vol.-mL	Dil. Fac.	Inj. Date	Inj. Time	Status	Comments
D091701	BLANK	50 ml	—	—	5	—	—	9/17/10	12:38	✓	
02	VSTD00025	2.5 ppb	—	water	50	5	1	"	12:52	✓	
03	VSTD0025	2.5 ppb	—						13:16	✓	
04	VSTD005	5.0 ppb	—						13:40	✓	
05	VSTD010	10 ppb	—						14:03	✓	
06	VSTD020	20 ppb	—						14:27	✓	
07	VSTD050	50 ppb	—						14:50	✓	
08	VSTD100	100 ppb	—						15:14	✓	
09	VSTD150	150 ppb	—						15:37	✓	
10	VSTD200	200 ppb	—						16:01	✓	
11	VSTD050	50 ppb	—	"	"	"	"	"	16:48	—	ICV

Pentafluorobenzene: 211266	Chlorobenzene-d_5: 251728	BFB Ion 95 Response: 41392
1,4-Difluorobenzene: 264051	1,4-Dichlorobenzene-d_4: 161558	Analyst: KT

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FORM 3
WATER VOLATILE METHOD SPIKE RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Matrix Spike - Sample No.: VSTD050

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT ()	% REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50.00	43.37	87	70-130
Chloromethane	50.00	49.84	100	70-130
Vinyl Chloride	50.00	49.15	98	70-130
Bromomethane	50.00	46.34	93	70-130
Chloroethane	50.00	48.78	98	70-130
Trichlorofluoromethane	50.00	46.26	92	70-130
Acetone	100.00	96.64	97	70-130
1,1-Dichloroethene	50.00	49.70	99	70-130
Methylene Chloride	50.00	48.47	97	70-130
Carbon Disulfide	100.00	104.77	105	70-130
trans-1,2-Dichloroethen	50.00	50.79	102	70-130
1,1-Dichloroethane	50.00	48.61	97	70-130
2-Butanone	100.00	90.50	90	70-130
cis-1,2-Dichloroethene	50.00	50.84	102	70-130
Chloroform	50.00	47.79	96	70-130
1,1,1-Trichloroethane	50.00	48.04	96	70-130
1,2-Dichloroethane	50.00	46.12	92	70-130
Carbon Tetrachloride	50.00	42.82	86	70-130
Benzene	50.00	49.66	99	70-130
Trichloroethene	50.00	50.12	100	70-130
Bromodichloromethane	50.00	51.39	103	70-130
1,2-Dichloropropane	50.00	49.84	100	70-130
4-Methyl-2-Pentanone	100.00	102.29	102	70-130
cis-1,3-Dichloropropene	50.00	49.86	100	70-130
Toluene	50.00	50.18	100	70-130
trans-1,3-Dichloroprope	50.00	48.44	97	70-130
2-Hexanone	100.00	100.14	100	70-130
1,1,2-Trichloroethane	50.00	48.85	98	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

_____

FORM III VOA

FORM 3
WATER VOLATILE METHOD SPIKE RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Matrix Spike - Sample No.: VSTD050

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT ()	% REC #	QC. LIMITS REC.
Dibromochloromethane	50.00	52.62	105	70-130
Tetrachloroethene	50.00	47.79	96	70-130
1,2-Dibromoethane	50.00	49.98	100	70-130
Chlorobenzene	50.00	49.65	99	70-130
Ethylbenzene	50.00	50.44	101	70-130
m,p-Xylenes	100.00	102.37	102	70-130
o-Xylene	50.00	49.63	99	70-130
Styrene	50.00	51.41	103	70-130
Bromoform	50.00	48.44	97	70-130
Isopropylbenzene	50.00	45.15	90	70-130
1,1,2,2-Tetrachloroetha	50.00	50.40	101	70-130
1,3-Dichlorobenzene	50.00	49.58	99	70-130
1,4-Dichlorobenzene	50.00	48.51	97	70-130
1,2-Dichlorobenzene	50.00	48.77	98	70-130
1,2-Dibromo-3-Chloropro	50.00	49.96	100	70-130
1,2,4-Trichlorobenzene	50.00	49.86	100	70-130
Methyl tert-butyl ether	50.00	50.13	100	70-130
Methylcyclohexane	50.00	41.40	83	70-130
Cyclohexane	50.00	41.24	82	70-130
Freon TF	50.00	41.53	83	70-130
Methyl Acetate	50.00	46.33	93	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date(s): 09/17/10 09/17/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1316 1601

LAB FILE ID: RF2.5: D091703 RF5: D091704 RF10: D091705
RF20: D091706 RF50: D091707

COMPOUND	RF2.5	RF5	RF10	RF20	RF50
Dichlorodifluoromethane	0.463	0.503	0.409	0.500	0.535
Chloromethane	0.910	0.902	0.750	0.847	0.839
Vinyl Chloride	0.601	0.616	0.530	0.607	0.644
Bromomethane	0.370	0.373	0.330	0.361	0.367
Chloroethane	0.412	0.414	0.337	0.377	0.373
Trichlorofluoromethane	0.685	0.743	0.621	0.769	0.824
Acetone	0.321	0.259	0.218	0.217	0.193
1,1-Dichloroethene	0.352	0.356	0.296	0.360	0.372
Methylene Chloride	0.569	0.585	0.475	0.519	0.491
Carbon Disulfide	0.861	0.901	0.813	0.970	1.048
trans-1,2-Dichloroethene	0.454	0.459	0.378	0.428	0.442
1,1-Dichloroethane	1.071	1.097	0.921	1.038	1.022
2-Butanone	0.349	0.348	0.314	0.278	0.267
cis-1,2-Dichloroethene	0.481	0.507	0.428	0.454	0.446
Chloroform	0.948	0.966	0.840	0.889	0.884
1,1,1-Trichloroethane	0.635	0.628	0.577	0.651	0.709
1,2-Dichloroethane	0.805	0.773	0.724	0.726	0.718
Carbon Tetrachloride	0.382	0.382	0.327	0.405	0.460
Benzene	1.479	1.400	1.254	1.322	1.336
Trichloroethene	0.329	0.318	0.293	0.316	0.333
Bromodichloromethane	0.409	0.450	0.417	0.467	0.512
1,2-Dichloropropane	0.413	0.417	0.390	0.408	0.411
4-Methyl-2-Pentanone	0.495	0.486	0.524	0.500	0.517
cis-1,3-Dichloropropene	0.397	0.447	0.436	0.514	0.586
Toluene	1.600	1.523	1.424	1.505	1.534
trans-1,3-Dichloropropene	0.383	0.406	0.421	0.466	0.530
2-Hexanone	0.319	0.314	0.328	0.310	0.326
1,1,2-Trichloroethane	0.331	0.305	0.290	0.291	0.281
Dibromochloromethane	0.287	0.304	0.303	0.329	0.367
Tetrachloroethene	0.295	0.285	0.258	0.291	0.304
1,2-Dibromoethane	0.347	0.352	0.339	0.347	0.349
Chlorobenzene	1.088	1.094	0.978	1.031	1.042
Ethylbenzene	0.460	0.476	0.411	0.489	0.517
m,p-Xylenes	0.537	0.592	0.532	0.618	0.642
o-Xylene	0.575	0.655	0.599	0.630	0.655
Styrene	1.063	1.121	1.085	1.182	1.221
Bromoform	0.170	0.192	0.196	0.218	0.254

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date(s): 09/17/10 09/17/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1316 1601

LAB FILE ID: RF2.5: D091703 RF5: D091704 RF10: D091705
RF20: D091706 RF50: D091707

COMPOUND	RF2.5	RF5	RF10	RF20	RF50
Isopropylbenzene	1.025	1.134	1.030	1.243	1.376
1,1,2,2-Tetrachloroethane	0.721	0.716	0.685	0.670	0.676
1,3-Dichlorobenzene	1.277	1.334	1.198	1.270	1.317
1,4-Dichlorobenzene	1.520	1.477	1.280	1.367	1.368
1,2-Dichlorobenzene	1.391	1.339	1.237	1.316	1.311
1,2-Dibromo-3-Chloropropane	0.097	0.110	0.112	0.123	0.142
1,2,4-Trichlorobenzene	0.738	0.746	0.728	0.774	0.792
Methyl tert-butyl ether	1.447	1.498	1.335	1.394	1.394
Methylcyclohexane	0.225	0.254	0.192	0.298	0.367
Cyclohexane	0.998	0.759	0.575	0.691	0.802
Freon TF	0.277	0.304	0.230	0.311	0.360
Methyl Acetate	0.944	0.963	0.830	0.838	0.805
Dibromofluoromethane	0.454	0.459	0.456	0.450	0.450
1,2-Dichloroethane-d4	0.761	0.758	0.746	0.732	0.716
Toluene-d8	1.485	1.491	1.489	1.446	1.436
4-Bromofluorobenzene	0.615	0.632	0.621	0.626	0.622

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date(s): 09/17/10 09/17/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1316 1601

LAB FILE ID: RF100: D091708 RF150: D091709 RF200: D091710

COMPOUND	RF100	RF150	RF200
Dichlorodifluoromethane	0.590	0.588	0.543
Chloromethane	0.864		
Vinyl Chloride	0.682	0.683	0.646
Bromomethane	0.377	0.364	0.337
Chloroethane	0.392	0.390	0.373
Trichlorofluoromethane	0.917	0.910	0.851
Acetone	0.192	0.189	0.171
1,1-Dichloroethene	0.408	0.415	0.396
Methylene Chloride	0.495	0.484	0.465
Carbon Disulfide	1.135	1.168	1.129
trans-1,2-Dichloroethene	0.457	0.469	0.450
1,1-Dichloroethane	1.040	1.037	0.998
2-Butanone	0.269	0.284	0.261
cis-1,2-Dichloroethene	0.451	0.461	0.445
Chloroform	0.880	0.874	0.829
1,1,1-Trichloroethane	0.762	0.770	0.730
1,2-Dichloroethane	0.698	0.660	0.626
Carbon Tetrachloride	0.510	0.518	0.496
Benzene	1.358	1.344	1.317
Trichloroethene	0.350	0.347	0.338
Bromodichloromethane	0.524	0.511	0.496
1,2-Dichloropropane	0.417	0.406	0.398
4-Methyl-2-Pentanone	0.521	0.522	0.513
cis-1,3-Dichloropropene	0.607	0.599	0.588
Toluene	1.569	1.581	1.572
trans-1,3-Dichloropropene	0.573	0.573	0.575
2-Hexanone	0.337	0.334	0.331
1,1,2-Trichloroethane	0.282	0.278	0.277
Dibromochloromethane	0.383	0.386	0.383
Tetrachloroethene	0.326	0.330	0.322
1,2-Dibromoethane	0.352	0.346	0.341
Chlorobenzene	1.037	1.028	1.012
Ethylbenzene	0.543	0.546	0.536
m,p-Xylenes	0.672	0.669	0.654
o-Xylene	0.673	0.661	0.646
Styrene	1.232	1.221	1.205
Bromoform	0.276	0.286	0.286

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date(s): 09/17/10 09/17/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1316 1601

LAB FILE ID: RF100: D091708 RF150: D091709 RF200: D091710

COMPOUND	RF100	RF150	RF200
Isopropylbenzene	1.465	1.479	1.451
1,1,2,2-Tetrachloroethane	0.668	0.666	0.665
1,3-Dichlorobenzene	1.337	1.319	1.303
1,4-Dichlorobenzene	1.389	1.373	1.359
1,2-Dichlorobenzene	1.319	1.290	1.268
1,2-Dibromo-3-Chloropropane	0.144	0.147	0.148
1,2,4-Trichlorobenzene	0.855	0.848	0.842
Methyl tert-butyl ether	1.406	1.411	1.365
Methylcyclohexane	0.437	0.442	0.431
Cyclohexane	0.939	0.965	0.928
Freon TF	0.418	0.427	0.403
Methyl Acetate	0.783	0.778	0.746
Dibromofluoromethane	0.439	0.438	0.429
1,2-Dichloroethane-d4	0.707	0.687	
Toluene-d8	1.430	1.436	1.457
4-Bromofluorobenzene	0.616	0.612	0.610

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date(s): 09/17/10 09/17/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1316 1601

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Dichlorodifluoromethane	LINR	1.9e-002	1.76398323		0.996
Chloromethane	LINR	9.16e-003	1.15802938		1.000
Vinyl Chloride	AVRG		0.62614029		8.0
Bromomethane	AVRG		0.36007842		4.8
Chloroethane	AVRG		0.38359827		6.4
Trichlorofluoromethane	AVRG		0.79021746		13.3
Acetone	LINR	-0.1584303	5.68597152		0.995
1,1-Dichloroethene	AVRG		0.36942806		10.4
Methylene Chloride	AVRG		0.51037482		8.6
Carbon Disulfide	AVRG		1.00332946		13.6
trans-1,2-Dichloroethene	AVRG		0.44217884		6.5
1,1-Dichloroethane	AVRG		1.02811674		5.1
2-Butanone	AVRG		0.29625867		12.2
cis-1,2-Dichloroethene	AVRG		0.45925645		5.3
Chloroform	AVRG		0.88886270		5.3
1,1,1-Trichloroethane	AVRG		0.68289674		10.2
1,2-Dichloroethane	AVRG		0.71623420		8.0
Carbon Tetrachloride	LINR	4.837e-002	1.95417177		0.999
Benzene	AVRG		1.35129809		4.9
Trichloroethene	AVRG		0.32802336		5.7
Bromodichloromethane	AVRG		0.47325022		9.4
1,2-Dichloropropane	AVRG		0.40748234		2.3
4-Methyl-2-Pentanone	AVRG		0.50980957		2.8
cis-1,3-Dichloropropene	LINR	2.86e-002	1.66842485		1.000
Toluene	AVRG		1.53848306		3.6
trans-1,3-Dichloropropene	LINR	5.017e-002	1.71754127		1.000
2-Hexanone	AVRG		0.32485934		3.0
1,1,2-Trichloroethane	AVRG		0.29189728		6.2
Dibromochloromethane	AVRG		0.34272382		12.1
Tetrachloroethene	AVRG		0.30152073		8.1
1,2-Dibromoethane	AVRG		0.34676016		1.4
Chlorobenzene	AVRG		1.03873733		3.6
Ethylbenzene	AVRG		0.49733235		9.6
m,p-Xylenes	AVRG		0.61462816		9.1
o-Xylene	AVRG		0.63671313		5.3
Styrene	AVRG		1.16632257		5.7
Bromoform	2ORDR	5.188e-002	3.62314512	-0.1682747	1.000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date(s): 09/17/10 09/17/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1316 1601

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Isopropylbenzene	LINR	4.057e-002	0.67620079		1.000
1,1,2,2-Tetrachloroethane	AVRG		0.68344547		3.3
1,3-Dichlorobenzene	AVRG		1.29444108		3.6
1,4-Dichlorobenzene	AVRG		1.39154326		5.3
1,2-Dichlorobenzene	AVRG		1.30873617		3.5
1,2-Dibromo-3-Chloropropane	2ORDR	3.473e-002	6.90697120	-0.3325589	1.000
1,2,4-Trichlorobenzene	AVRG		0.79032023		6.6
Methyl tert-butyl ether	AVRG		1.40638729		3.5
Methylcyclohexane	2ORDR	9.104e-002	2.20517362	2.369e-002	0.998
Cyclohexane	LINR	6.292e-002	1.04513988		0.998
Freon TF	LINR	6.181e-002	2.38402218		0.998
Methyl Acetate	AVRG		0.83607038		9.4
Dibromofluoromethane	AVRG		0.44690738		2.3
1,2-Dichloroethane-d4	AVRG		0.72971433		3.8
Toluene-d8	AVRG		1.45890014		1.8
4-Bromofluorobenzene	AVRG		0.61952921		1.2

FORM VI VOA

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091701.D

Page 1

Date : 17-SEP-2010 12:38

Client ID: BFB

Instrument: VOA2.i

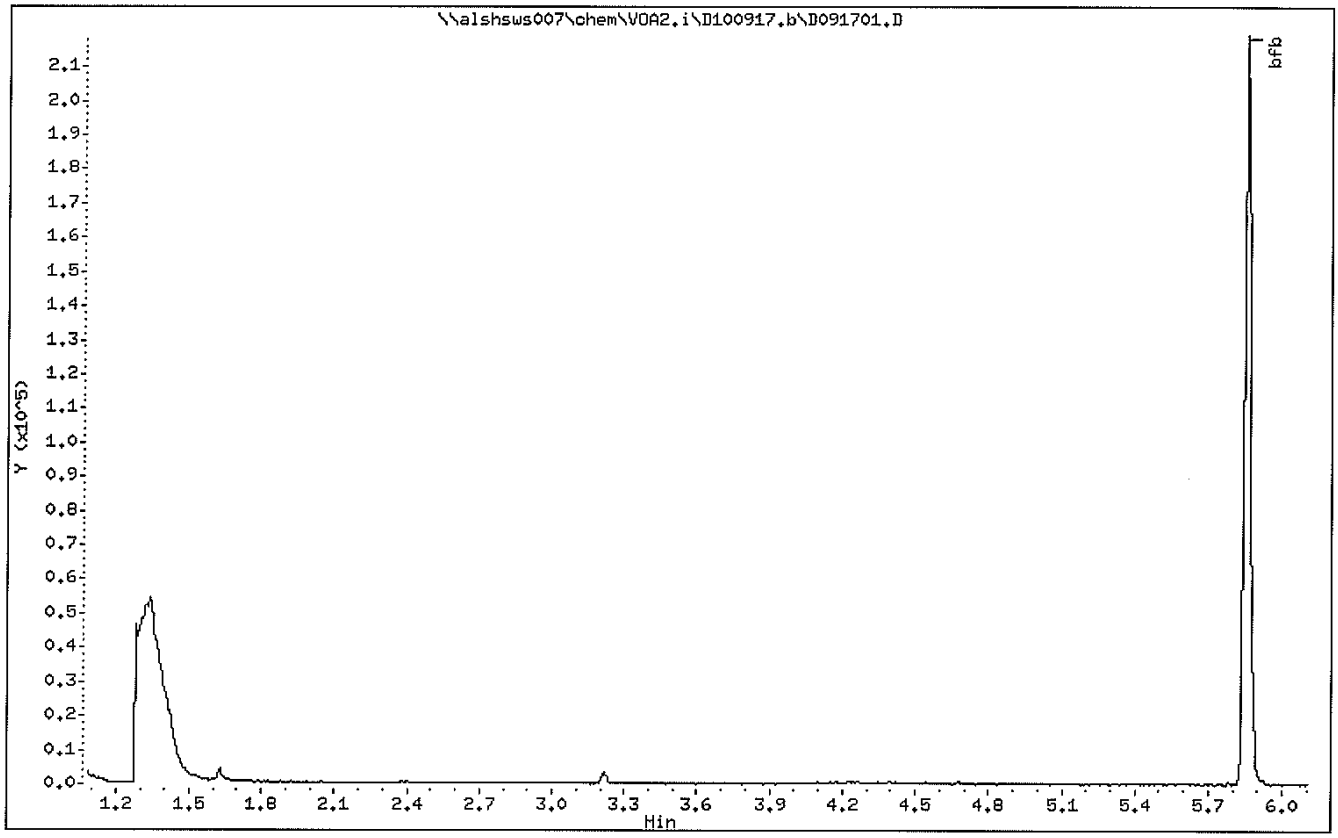
Sample Info: BFB;BFB;3;;

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091701.D

Date : 17-SEP-2010 12:38

Client ID: BFB

Instrument: VOA2.i

Sample Info: BFB;BFB;3;;

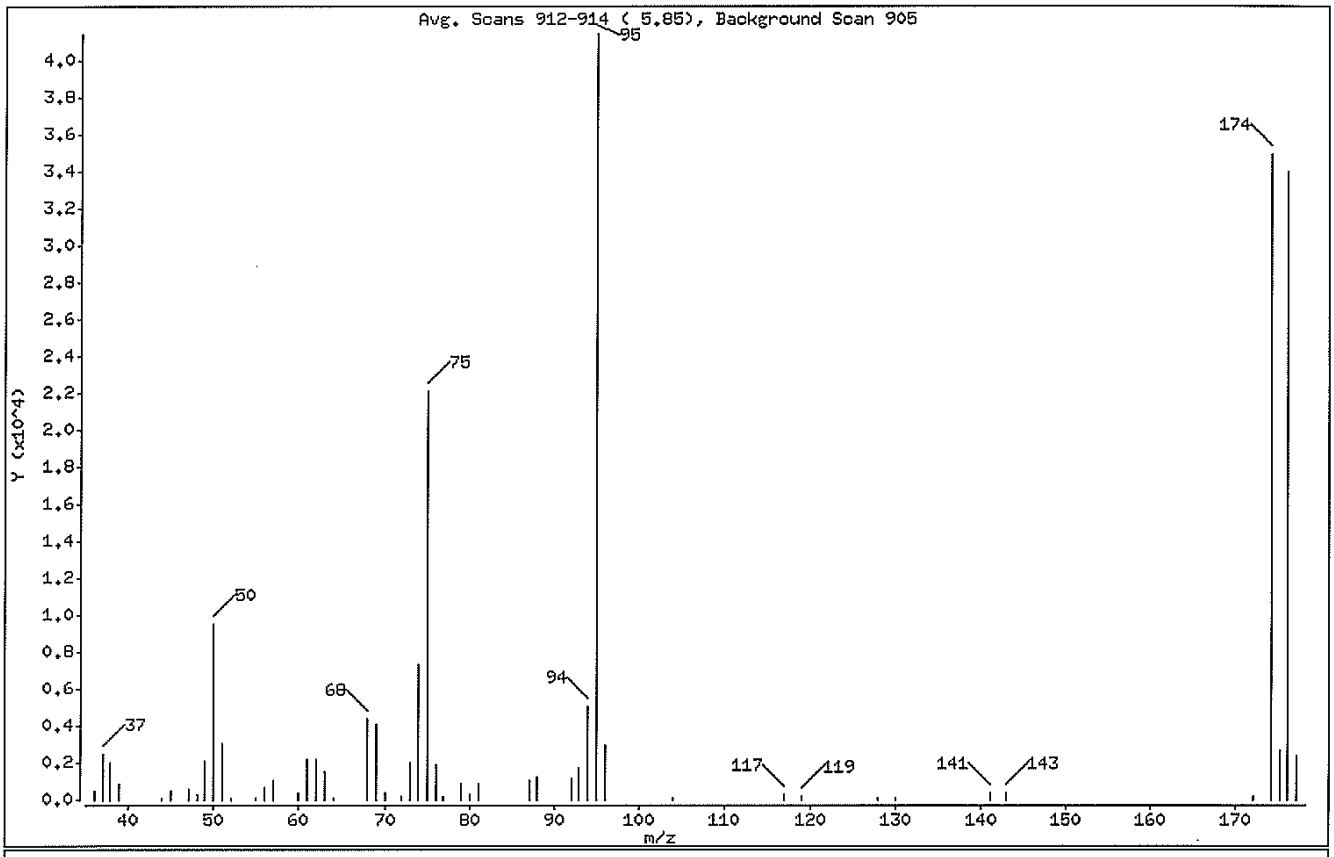
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.03
75	30.00 - 60.00% of mass 95	53.30
96	5.00 - 9.00% of mass 95	7.17
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	84.33
175	5.00 - 9.00% of mass 174	6.46 (7.66)
176	95.00 - 101.00% of mass 174	82.08 (97.34)
177	5.00 - 9.00% of mass 176	5.68 (6.93)

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091701.D

Date : 17-SEP-2010 12:38

Client ID: BFB

Instrument: VOA2.i

Sample Info: BFB;BFB;3;;

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18

Data File: D091701.D
Spectrum: Avg. Scans 912-914 (5.85), Background Scan 905
Location of Maximum: 95.00
Number of points: 51

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	463	56.00	632	75.00	22064	104.00	68
37.00	2509	57.00	1088	76.00	1898	117.00	252
38.00	1989	60.00	393	77.00	162	119.00	212
39.00	885	61.00	2234	79.00	840	128.00	76
44.00	138	62.00	2235	80.00	246	130.00	69
45.00	433	63.00	1563	81.00	812	141.00	411
47.00	554	64.00	90	87.00	1022	143.00	406
48.00	305	68.00	4363	88.00	1220	172.00	237
49.00	2058	69.00	4133	92.00	1186	174.00	34904
50.00	9534	70.00	334	93.00	1735	175.00	2675
51.00	3068	72.00	234	94.00	5014	176.00	33976
52.00	77	73.00	1997	95.00	41392	177.00	2353
55.00	142	74.00	7324	96.00	2968		

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091703.D
Report Date: 23-Sep-2010 12:37

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100917.b\D091703.D
Lab Smp Id: VSTD0025 Client Smp ID: VSTD0025
Inj Date : 17-SEP-2010 13:16 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD0025;VSTD0025;1;1;
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100917.b\8260BW.m
Meth Date : 23-Sep-2010 12:37 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

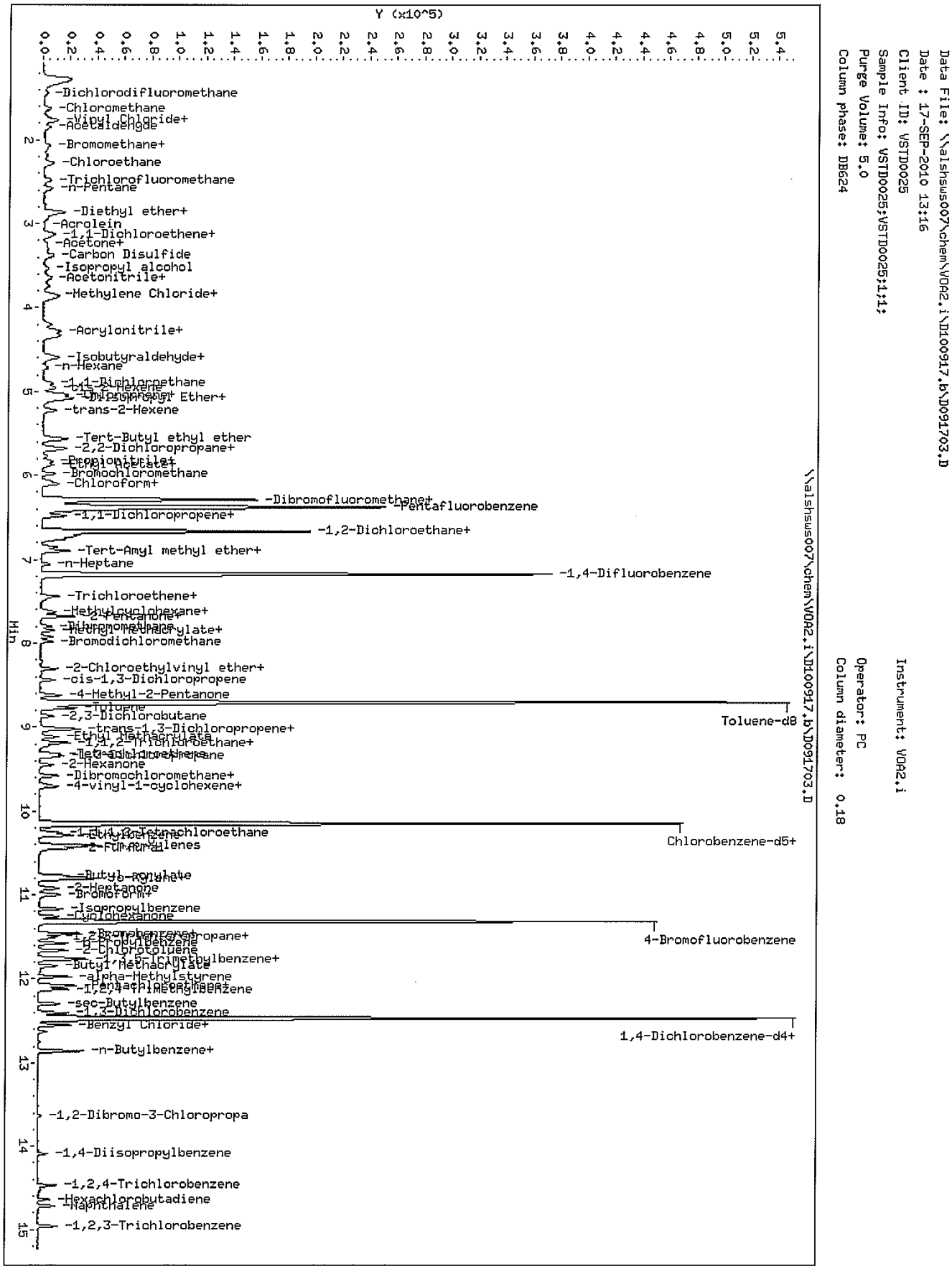
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	6.378	6.378	(1.000)	216435	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.178	(1.000)	270902	50.0000	
* 47 Chlorobenzene-d5	117	10.143	10.143	(1.000)	235303	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.466	12.466	(1.000)	143916	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.986)	98359	50.0000	50.84
$ 35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.045)	164626	50.0000	52.11
$ 48 Toluene-d8	98	8.705	8.705	(0.858)	349405	50.0000	50.89
$ 69 4-Bromofluorobenzene	95	11.315	11.315	(1.115)	144696	50.0000	49.62
31 1,1,1-Trichloroethane	97	6.294	6.294	(0.987)	6877	2.50000	2.32(a)
68 1,1,2,2-Tetrachloroethane	83	11.461	11.461	(0.919)	5189	2.50000	2.63(aM)
138 Freon TF	101	3.150	3.150	(0.494)	3001	2.50000	4.74(a)
53 1,1,2-Trichloroethane	83	9.186	9.186	(0.906)	3892	2.50000	2.83(a)
22 1,1-Dichloroethane	63	4.908	4.908	(0.770)	11587	2.50000	2.60(a)
11 1,1-Dichloroethene	96	3.124	3.124	(0.490)	3814	2.50000	2.38(a)
90 1,2,4-Trichlorobenzene	180	14.474	14.474	(1.161)	5307	2.50000	2.33(a)
89 1,2-Dibromo-3-Chloropropane	75	13.642	13.642	(1.094)	696	2.50000	3.40(aM)
57 1,2-Dibromoethane	107	9.683	9.683	(0.955)	4079	2.50000	2.49(aM)
88 1,2-Dichlorobenzene	146	12.863	12.863	(1.032)	10008	2.50000	2.65(a)
33 1,2-Dichloroethane	62	6.749	6.749	(0.940)	10902	2.50000	2.80
42 1,2-Dichloropropane	63	7.675	7.675	(1.069)	5590	2.50000	2.53(aM)
83 1,3-Dichlorobenzene	146	12.403	12.403	(0.995)	9191	2.50000	2.46(a)
84 1,4-Dichlorobenzene	146	12.497	12.497	(1.003)	10935	2.50000	2.73(a)

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091703.D
Report Date: 23-Sep-2010 12:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24	2-Butanone	43	5.771	5.771	(0.905)	7558	5.00000	5.89(a)
52	2-Hexanone	43	9.453	9.453	(0.932)	7509	5.00000	4.91(a)
45	4-Methyl-2-Pentanone	43	8.621	8.621	(0.850)	11653	5.00000	4.85(a)
37	Benzene	78	6.718	6.718	(0.936)	20033	2.50000	2.73(a)
39	Bromodichloromethane	83	7.978	7.978	(1.111)	5546	2.50000	2.16(aM)
66	Bromoform	173	10.985	10.985	(1.083)	2000	2.50000	4.13(Ta)
6	Bromomethane	94	2.068	2.068	(0.324)	4005	2.50000	2.56(a)
19	Carbon Disulfide	76	3.381	3.381	(0.530)	18641	5.00000	4.29(a)
34	Carbon Tetrachloride	117	6.472	6.472	(0.902)	5170	2.50000	4.28(a)
59	Chlorobenzene	112	10.175	10.175	(1.003)	12798	2.50000	2.61(a)
7	Chloroethane	64	2.193	2.193	(0.344)	4461	2.50000	2.68(a)
28	Chloroform	83	6.100	6.100	(0.957)	10257	2.50000	2.66(a)
3	Chloromethane	50	1.634	1.634	(0.256)	9843	2.50000	3.09(a)
27	cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	5203	2.50000	2.61(a)
46	cis-1,3-Dichloropropene	75	8.433	8.433	(1.175)	5382	2.50000	3.08(a)
141	Cyclohexane	56	6.336	6.336	(0.993)	10804	2.50000	5.75
55	Dibromochloromethane	129	9.573	9.573	(0.944)	3377	2.50000	2.09(a)
2	Dichlorodifluoromethane	85	1.440	1.440	(0.226)	5007	2.50000	2.99(a)
61	Ethylbenzene	106	10.285	10.285	(1.014)	5416	2.50000	2.31(a)
67	Isopropylbenzene	105	11.163	11.163	(1.101)	12059	2.50000	3.76(a)
146	Methyl Acetate	43	3.747	3.747	(0.588)	10222	2.50000	2.82(a)
17	Methylene Chloride	84	3.851	3.851	(0.604)	6156	2.50000	2.78(a)
18	Methyl tert-butyl ether	73	4.333	4.333	(0.679)	15658	2.50000	2.57(a)
147	Methylcyclohexane	83	7.633	7.633	(1.063)	3048	2.50000	5.79
64	Styrene	104	10.813	10.813	(1.066)	12505	2.50000	2.27(a)
56	Tetrachloroethene	164	9.322	9.322	(0.919)	3475	2.50000	2.44(a)
50	Toluene	91	8.773	8.773	(0.865)	18828	2.50000	2.60(a)
20	trans-1,2-Dichloroethene	96	4.265	4.265	(0.669)	4914	2.50000	2.56(a)
51	trans-1,3-Dichloropropene	75	9.003	9.003	(0.888)	4504	2.50000	4.15(a)
38	Trichloroethene	130	7.439	7.439	(1.036)	4454	2.50000	2.50(a)
8	Trichlorofluoromethane	101	2.476	2.476	(0.388)	7415	2.50000	2.16(Ta)
5	Vinyl Chloride	62	1.728	1.728	(0.271)	6502	2.50000	2.39
62	m,p-Xylenes	106	10.405	10.405	(1.026)	12641	5.00000	4.37(a)
63	o-Xylene	106	10.797	10.797	(1.064)	6767	2.50000	2.25(a)

QC Flag Legend

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


Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091703.D
Date : 17-SEP-2010 13:16
Client ID: VSTD0025
Sample Info: VSTD0025;VSTD0025;1;1;
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA2.i
Operator: PC
Column diameter: 0.18
Y (x10^5)
Min
\\alshsws007\chem\VOA2.i\D100917.b\D091703.D
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane+
-Chloroethane
-Trichlorofluoromethane
-n-Pentane
-Diethyl ether+
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Isopropyl alcohol
-Acetonitrile+
-Methylene Chloride+
-Acrylonitrile+
-Isobutyraldehyde+
-n-Hexane
-1,1-Dichloroethane
-cis-1,2-Hexene
-Diisopropyl Ether+
-trans-2-Hexene
-Tert-Butyl ethyl ether
-2,2-Dichloropropane+
-Propionitrile+
-Ethyl Acetate+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Tert-Amyl methyl ether+
-n-Heptane
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-2-Pentanone
-Dibromomethane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene
-2,3-Dichlorobutane
Toluene-d8
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-Tetrachloroethene
-2-Hexanone
-Dibromochloromethane+
-4-vinyl-1-cyclohexene+
-1,1,1,2-Tetrachloroethane
-Ethylbenzene
-m,p-Xylenes
Chlorobenzene-d5+
-2-Furaldehyde
-Butyl acrylate+
-o-Xylene
-2-Heptanone
-Bromoform+
-Isopropylbenzene
-Cyclohexanone
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloropropane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl Methacrylate
-alpha-Methylstyrene
-Pentachloroethane+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
-Benzyl Chloride+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,4-Diisopropylbenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091704.D
Report Date: 23-Sep-2010 12:38

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100917.b\D091704.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 17-SEP-2010 13:40 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD005;VSTD005;1;2;
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100917.b\8260BW.m
Meth Date : 23-Sep-2010 12:37 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 13:16 Cal File: D091703.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Pentafluorobenzene	168	6.378	6.378	(1.000)	201954	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.178	(1.000)	255864	50.0000	
* 47 Chlorobenzene-d5	117	10.149	10.149	(1.000)	235997	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.466	12.466	(1.000)	147208	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.986)	92658	50.0000	51.33
$ 35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.045)	153121	50.0000	51.95
$ 48 Toluene-d8	98	8.705	8.705	(0.858)	351823	50.0000	51.09
$ 69 4-Bromofluorobenzene	95	11.315	11.315	(1.115)	149206	50.0000	51.02
31 1,1,1-Trichloroethane	97	6.289	6.289	(0.986)	12692	5.00000	4.60(a)
68 1,1,2,2-Tetrachloroethane	83	11.461	11.461	(0.919)	10537	5.00000	5.23
138 Freon TF	101	3.140	3.140	(0.492)	6139	5.00000	6.71
53 1,1,2-Trichloroethane	83	9.186	9.186	(0.905)	7197	5.00000	5.22
22 1,1-Dichloroethane	63	4.908	4.908	(0.770)	22161	5.00000	5.33
11 1,1-Dichloroethene	96	3.119	3.119	(0.489)	7201	5.00000	4.82(a)
90 1,2,4-Trichlorobenzene	180	14.474	14.474	(1.161)	10975	5.00000	4.71(a)
89 1,2-Dibromo-3-Chloropropane	75	13.637	13.637	(1.094)	1626	5.00000	5.54
57 1,2-Dibromoethane	107	9.678	9.678	(0.954)	8319	5.00000	5.08(M)
88 1,2-Dichlorobenzene	146	12.863	12.863	(1.032)	19708	5.00000	5.11
33 1,2-Dichloroethane	62	6.754	6.754	(0.941)	19779	5.00000	5.39
42 1,2-Dichloropropane	63	7.675	7.675	(1.069)	10679	5.00000	5.12(M)
83 1,3-Dichlorobenzene	146	12.403	12.403	(0.995)	19646	5.00000	5.15
84 1,4-Dichlorobenzene	146	12.492	12.492	(1.002)	21747	5.00000	5.30

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091704.D
Report Date: 23-Sep-2010 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.904)	14050	10.0000	11.74
52	2-Hexanone	43	9.448	9.448	(0.931)	14813	10.0000	9.66(a)
45	4-Methyl-2-Pentanone	43	8.621	8.621	(0.850)	22963	10.0000	9.54(a)
10	Acetone	43	3.240	3.240	(0.508)	10448	10.0000	6.78(a)
37	Benzene	78	6.718	6.718	(0.936)	35813	5.00000	5.17
39	Bromodichloromethane	83	7.978	7.978	(1.111)	11507	5.00000	4.75(a)
66	Bromoform	173	10.991	10.991	(1.083)	4537	5.00000	6.07(T)
6	Bromomethane	94	2.078	2.078	(0.326)	7531	5.00000	5.17
19	Carbon Disulfide	76	3.386	3.386	(0.531)	36399	10.0000	8.98(a)
34	Carbon Tetrachloride	117	6.477	6.477	(0.902)	9765	5.00000	6.14
59	Chlorobenzene	112	10.170	10.170	(1.002)	25818	5.00000	5.26
7	Chloroethane	64	2.199	2.199	(0.345)	8355	5.00000	5.39
28	Chloroform	83	6.106	6.106	(0.957)	19505	5.00000	5.43
3	Chloromethane	50	1.629	1.629	(0.255)	18209	5.00000	5.67
27	cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	10237	5.00000	5.51
46	cis-1,3-Dichloropropene	75	8.438	8.438	(1.176)	11446	5.00000	5.16
141	Cyclohexane	56	6.336	6.336	(0.993)	15334	5.00000	7.11
55	Dibromochloromethane	129	9.573	9.573	(0.943)	7173	5.00000	4.43(a)
2	Dichlorodifluoromethane	85	1.435	1.435	(0.225)	10155	5.00000	5.38
61	Ethylbenzene	106	10.290	10.290	(1.014)	11222	5.00000	4.78(a)
67	Isopropylbenzene	105	11.163	11.163	(1.100)	26758	5.00000	5.86
146	Methyl Acetate	43	3.736	3.736	(0.586)	19452	5.00000	5.76
17	Methylene Chloride	84	3.846	3.846	(0.603)	11807	5.00000	5.72(a)
18	Methyl tert-butyl ether	73	4.333	4.333	(0.679)	30264	5.00000	5.32
147	Methylcyclohexane	83	7.638	7.638	(1.064)	6504	5.00000	7.35
64	Styrene	104	10.813	10.813	(1.065)	26454	5.00000	4.80(a)
56	Tetrachloroethene	164	9.317	9.317	(0.918)	6720	5.00000	4.72(a)
50	Toluene	91	8.773	8.773	(0.864)	35954	5.00000	4.95(a)
20	trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	9263	5.00000	5.18
51	trans-1,3-Dichloropropene	75	9.008	9.008	(0.888)	9588	5.00000	5.99
38	Trichloroethene	130	7.439	7.439	(1.036)	8130	5.00000	4.84(a)
8	Trichlorofluoromethane	101	2.486	2.486	(0.390)	15014	5.00000	4.70(Ta)
5	Vinyl Chloride	62	1.728	1.728	(0.271)	12439	5.00000	4.91
62	m,p-Xylenes	106	10.410	10.410	(1.026)	27933	10.0000	9.62(a)
63	o-Xylene	106	10.797	10.797	(1.064)	15456	5.00000	5.14

QC Flag Legend

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

Y (x10^5)
Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091704.D
Date : 17-SEP-2010 13:40
Client ID: VSID005
Sample Info: VSID005;VSID005;1;2;
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA2.i
Operator: PC
Column diameter: 0.18
\\alshsws007\chem\VOA2.i\D100917.b\D091704.D
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Bromomethane+
-Chloroethane
-Trichlorofluoromethane
-n-Pentane
-Diethyl ether+
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Isopropyl alcohol
-Acetonitrile+
-Methyl Acetate
-Methylene Chloride+
-Tert-butyl alcohol
-Acrylonitrile+
-Isobutyraldehyde+
-n-Hexane
-1,1-Dichloroethane
-cis-1,2-Dichloroethene
-Diisopropyl Ether+
-Allyl alcohol+
-Tert-Butyl ethyl ether
-Methacrylonitrile+
-2-Butanone
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Tert-Amyl methyl ether+
-n-Heptane
-1,4-Difluorobenzene
-Trichloroethene+
-Ethyl Acrylate+
-2-Pentanone+
-Dibromomethane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene
Toluene-d8
-2,3-Dichlorobutane
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-Tetrachloroethene
-2-Hexanone
-Dibromochloromethane+
-4-vinyl-1-cyclohexene+
-1,1,1,2-Tetrachloroethane
-Ethylbenzene
-m,p-Xylenes+
Chlorobenzene-d5+
-Butyl acrylate+
-o-Xylene
-2-Heptanone
-Bromoform+
-Isopropylbenzene
-Cyclohexanone
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
4-Bromofluorobenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl Methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene
-1,2,3-Trimethylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,4-Diisopropylbenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091705.D
Report Date: 23-Sep-2010 12:38

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100917.b\D091705.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 17-SEP-2010 14:03 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD010;VSTD010;1;3;
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100917.b\8260BW.m
Meth Date : 23-Sep-2010 12:38 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 13:40 Cal File: D091704.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

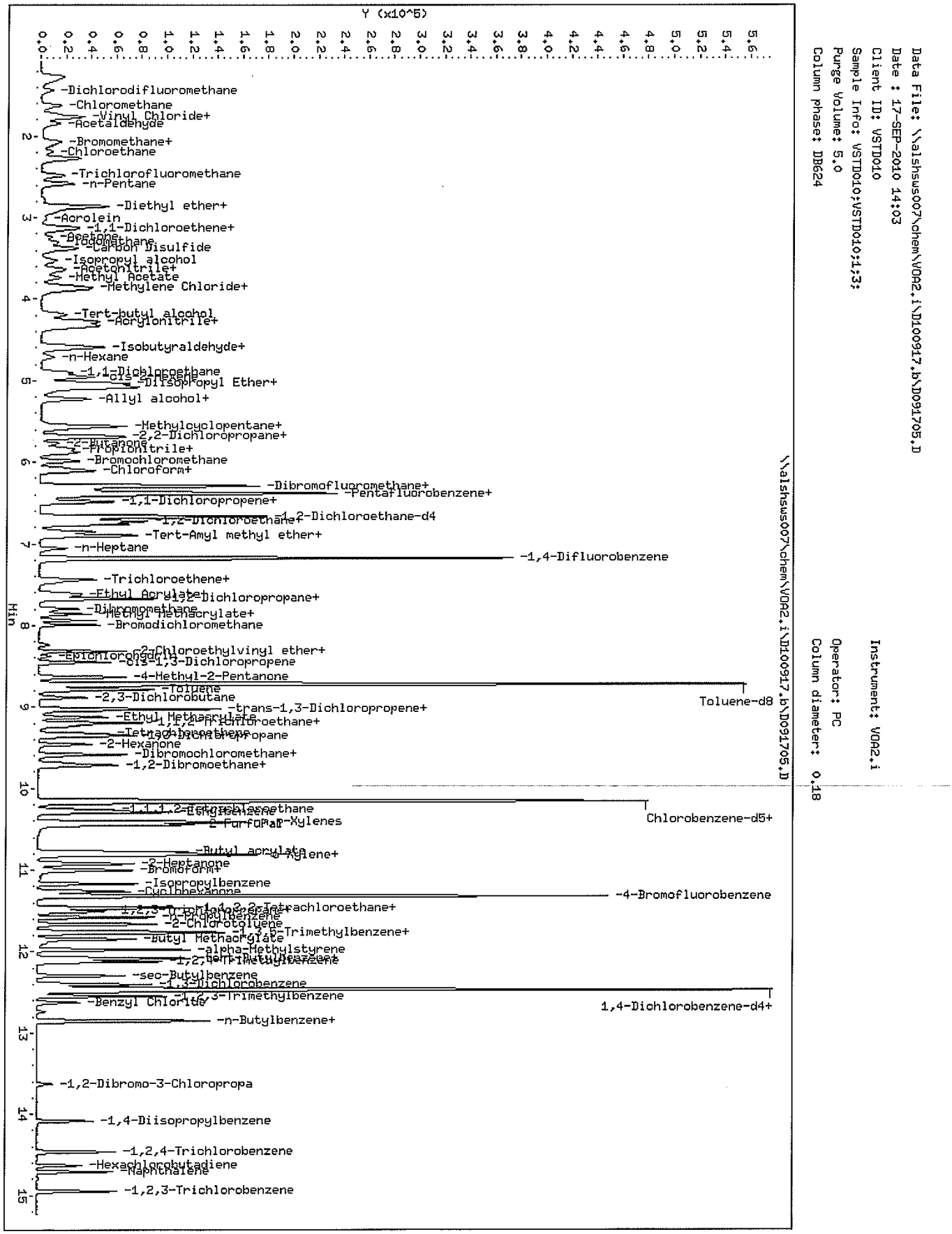
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
*	1 Pentafluorobenzene	168	6.383	6.383	(1.000)	212863	50.0000	
*	36 1,4-Difluorobenzene	114	7.178	7.178	(1.000)	266013	50.0000	
*	47 Chlorobenzene-d5	117	10.149	10.149	(1.000)	235152	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	12.466	12.466	(1.000)	147516	50.0000	
$	30 Dibromofluoromethane	113	6.294	6.294	(0.986)	96966	50.0000	50.96
$	35 1,2-Dichloroethane-d4	65	6.671	6.671	(1.045)	158840	50.0000	51.13
$	48 Toluene-d8	98	8.716	8.716	(0.859)	350218	50.0000	51.04
$	69 4-Bromofluorobenzene	95	11.315	11.315	(1.115)	146015	50.0000	50.11
	31 1,1,1-Trichloroethane	97	6.289	6.289	(0.985)	24561	10.0000	8.44
	68 1,1,2,2-Tetrachloroethane	83	11.461	11.461	(0.919)	20200	10.0000	10.01
	138 Freon TF	101	3.151	3.151	(0.494)	9815	10.0000	8.58
	53 1,1,2-Trichloroethane	83	9.197	9.197	(0.906)	13667	10.0000	9.95
	22 1,1-Dichloroethane	63	4.908	4.908	(0.769)	39210	10.0000	8.95
	11 1,1-Dichloroethene	96	3.119	3.119	(0.489)	12581	10.0000	7.99
	90 1,2,4-Trichlorobenzene	180	14.469	14.469	(1.161)	21483	10.0000	9.21
	89 1,2-Dibromo-3-Chloropropane	75	13.632	13.632	(1.094)	3317	10.0000	9.49
	57 1,2-Dibromoethane	107	9.688	9.688	(0.955)	15926	10.0000	9.76
	88 1,2-Dichlorobenzene	146	12.858	12.858	(1.031)	36497	10.0000	9.45
	33 1,2-Dichloroethane	62	6.754	6.754	(0.941)	38524	10.0000	10.10
	42 1,2-Dichloropropane	63	7.675	7.675	(1.069)	20745	10.0000	9.56
	83 1,3-Dichlorobenzene	146	12.398	12.398	(0.995)	35344	10.0000	9.25
	84 1,4-Dichlorobenzene	146	12.487	12.487	(1.002)	37776	10.0000	9.20

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091705.D
Report Date: 23-Sep-2010 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.903)	26706	20.0000	21.17
52	2-Hexanone	43	9.464	9.464	(0.932)	30814	20.0000	20.16
45	4-Methyl-2-Pentanone	43	8.632	8.632	(0.851)	49322	20.0000	20.57
10	Acetone	43	3.240	3.240	(0.508)	18541	20.0000	16.84
37	Benzene	78	6.723	6.723	(0.937)	66706	10.0000	9.27
39	Bromodichloromethane	83	7.994	7.994	(1.114)	22178	10.0000	8.80
66	Bromoform	173	10.996	10.996	(1.083)	9239	10.0000	9.69
6	Bromomethane	94	2.078	2.078	(0.326)	14059	10.0000	9.17
19	Carbon Disulfide	76	3.381	3.381	(0.530)	69208	20.0000	16.20
34	Carbon Tetrachloride	117	6.477	6.477	(0.902)	17415	10.0000	8.81
59	Chlorobenzene	112	10.180	10.180	(1.003)	45994	10.0000	9.41
7	Chloroethane	64	2.193	2.193	(0.344)	14358	10.0000	8.79
28	Chloroform	83	6.106	6.106	(0.957)	35760	10.0000	9.45
3	Chloromethane	50	1.623	1.623	(0.254)	31928	10.0000	9.14
27	cis-1,2-Dichloroethene	96	5.698	5.698	(0.893)	18235	10.0000	9.32
46	cis-1,3-Dichloropropene	75	8.454	8.454	(1.178)	23187	10.0000	8.70
141	Cyclohexane	56	6.341	6.341	(0.993)	24467	10.0000	9.15
55	Dibromochloromethane	129	9.584	9.584	(0.944)	14249	10.0000	8.84
2	Dichlorodifluoromethane	85	1.440	1.440	(0.226)	17431	10.0000	8.17
61	Ethylbenzene	106	10.295	10.295	(1.014)	19314	10.0000	8.25
67	Isopropylbenzene	105	11.169	11.169	(1.100)	48460	10.0000	8.99
146	Methyl Acetate	43	3.736	3.736	(0.585)	35343	10.0000	9.92
17	Methylene Chloride	84	3.846	3.846	(0.603)	20218	10.0000	9.30(a)
18	Methyl tert-butyl ether	73	4.333	4.333	(0.679)	56838	10.0000	9.49
147	Methylcyclohexane	83	7.633	7.633	(1.063)	10207	10.0000	8.78
64	Styrene	104	10.818	10.818	(1.066)	51041	10.0000	9.30
56	Tetrachloroethene	164	9.333	9.333	(0.920)	12144	10.0000	8.56
50	Toluene	91	8.789	8.789	(0.866)	66963	10.0000	9.25
20	trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	16100	10.0000	8.55
51	trans-1,3-Dichloropropene	75	9.014	9.014	(0.888)	19782	10.0000	9.73
38	Trichloroethene	130	7.439	7.439	(1.036)	15577	10.0000	8.92
8	Trichlorofluoromethane	101	2.486	2.486	(0.390)	26435	10.0000	7.85(T)
5	Vinyl Chloride	62	1.728	1.728	(0.271)	22576	10.0000	8.46
62	m,p-Xylenes	106	10.410	10.410	(1.026)	50032	20.0000	17.30
63	o-Xylene	106	10.802	10.802	(1.064)	28160	10.0000	9.40

QC Flag Legend

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


Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091705.D
Date : 17-SEP-2010 14:03
Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;3;
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA2.i
Operator: PC
Column diameter: 0.18
\\alshsws007\chem\VOA2.i\D100917.b\D091705.D
Y (x10^5)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane+
-Chloroethane
-Trichlorofluoromethane
-n-Pentane
-Diethyl ether+
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Isopropyl alcohol
-Acetonitrile+
-Methyl Acetate
-Methylene Chloride+
-Tert-butyl alcohol
-Acrylonitrile+
-Isobutyraldehyde+
-n-Hexane
-1,1-Dichloroethane
-cis-2-Pentene
-Diisopropyl Ether+
-Allyl alcohol+
-Methylcyclopentane+
-2,2-Dichloropropane+
-2-Butanone
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Tert-Amyl methyl ether+
-n-Heptane
-1,4-Difluorobenzene
-Trichloroethene+
-Ethyl Acrylate+
-1,2-Dichloropropane+
-Dibromomethane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-Epichlorohydrin
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene
-2,3-Dichlorobutane
Toluene-d8
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-Tetrachloroethene
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane
-Ethylbenzene
Chlorobenzene-d5+
-2-Furfural
-m,p-Xylenes
-Butyl acrylate
-o-Xylene+
-2-Heptanone
-Bromoform+
-Isopropylbenzene
-Cyclohexanone
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-1,2,3-Trichloropropane
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl Methacrylate
-alpha-Methylstyrene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,2,3-Trimethylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,4-Diisopropylbenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091706.D
Report Date: 23-Sep-2010 12:38

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100917.b\D091706.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 17-SEP-2010 14:27 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD020;VSTD020;1;4;
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100917.b\8260BW.m
Meth Date : 23-Sep-2010 12:38 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 14:03 Cal File: D091705.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	6.377	6.377	(1.000)	202575	50.0000	
*	36 1,4-Difluorobenzene	114	7.172	7.172	(1.000)	256967	50.0000	
*	47 Chlorobenzene-d5	117	10.138	10.138	(1.000)	241793	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	12.455	12.455	(1.000)	154535	50.0000	
$	30 Dibromofluoromethane	113	6.289	6.289	(0.986)	91204	50.0000	50.37
$	35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.045)	148358	50.0000	50.18
$	48 Toluene-d8	98	8.700	8.700	(0.858)	349667	50.0000	49.56
$	69 4-Bromofluorobenzene	95	11.304	11.304	(1.115)	151504	50.0000	50.56
	31 1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	52724	20.0000	19.05
	68 1,1,2,2-Tetrachloroethane	83	11.451	11.451	(0.919)	41396	20.0000	19.59
	138 Freon TF	101	3.145	3.145	(0.493)	25168	20.0000	17.90
	53 1,1,2-Trichloroethane	83	9.176	9.176	(0.905)	28108	20.0000	19.91
	22 1,1-Dichloroethane	63	4.903	4.903	(0.769)	84099	20.0000	20.18
	11 1,1-Dichloroethene	96	3.114	3.114	(0.488)	29169	20.0000	19.48
	90 1,2,4-Trichlorobenzene	180	14.463	14.463	(1.161)	47862	20.0000	19.59
	89 1,2-Dibromo-3-Chloropropane	75	13.627	13.627	(1.094)	7587	20.0000	18.65
	57 1,2-Dibromoethane	107	9.673	9.673	(0.954)	33585	20.0000	20.02
	88 1,2-Dichlorobenzene	146	12.853	12.853	(1.032)	81334	20.0000	20.10
	33 1,2-Dichloroethane	62	6.749	6.749	(0.941)	74578	20.0000	20.26
	42 1,2-Dichloropropane	63	7.675	7.675	(1.070)	41962	20.0000	20.03
	83 1,3-Dichlorobenzene	146	12.392	12.392	(0.995)	78479	20.0000	19.61
	84 1,4-Dichlorobenzene	146	12.481	12.481	(1.002)	84481	20.0000	19.64

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091706.D
Report Date: 23-Sep-2010 12:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24 2-Butanone	43	5.766	5.766	(0.904)	45122	40.0000	37.59
52 2-Hexanone	43	9.442	9.442	(0.931)	59938	40.0000	38.15
45 4-Methyl-2-Pentanone	43	8.611	8.611	(0.849)	96716	40.0000	39.22
10 Acetone	43	3.245	3.245	(0.509)	35191	40.0000	41.46
37 Benzene	78	6.717	6.717	(0.937)	135924	20.0000	19.57
39 Bromodichloromethane	83	7.973	7.973	(1.112)	48024	20.0000	19.74
66 Bromoform	173	10.980	10.980	(1.083)	21109	20.0000	18.34
6 Bromomethane	94	2.068	2.068	(0.324)	29277	20.0000	20.06
19 Carbon Disulfide	76	3.375	3.375	(0.529)	157222	40.0000	38.67
34 Carbon Tetrachloride	117	6.472	6.472	(0.902)	41589	20.0000	18.23
59 Chlorobenzene	112	10.164	10.164	(1.003)	99724	20.0000	19.85
7 Chloroethane	64	2.188	2.188	(0.343)	30552	20.0000	19.65
28 Chloroform	83	6.100	6.100	(0.957)	72055	20.0000	20.00
3 Chloromethane	50	1.623	1.623	(0.255)	68669	20.0000	20.08
27 cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	36832	20.0000	19.79
46 cis-1,3-Dichloropropene	75	8.433	8.433	(1.176)	52807	20.0000	18.57
141 Cyclohexane	56	6.336	6.336	(0.993)	55996	20.0000	17.59
55 Dibromochloromethane	129	9.563	9.563	(0.943)	31819	20.0000	19.19
2 Dichlorodifluoromethane	85	1.440	1.440	(0.226)	40518	20.0000	18.59
61 Ethylbenzene	106	10.279	10.279	(1.014)	47306	20.0000	19.66
67 Isopropylbenzene	105	11.158	11.158	(1.101)	120255	20.0000	18.84
146 Methyl Acetate	43	3.741	3.741	(0.587)	67881	20.0000	20.03
17 Methylene Chloride	84	3.846	3.846	(0.603)	42058	20.0000	20.33
18 Methyl tert-butyl ether	73	4.332	4.332	(0.679)	112987	20.0000	19.82
147 Methylcyclohexane	83	7.628	7.628	(1.063)	30685	20.0000	17.73
64 Styrene	104	10.802	10.802	(1.066)	114298	20.0000	20.26
56 Tetrachloroethene	164	9.312	9.312	(0.918)	28117	20.0000	19.28
50 Toluene	91	8.768	8.768	(0.865)	145522	20.0000	19.55
20 trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	34667	20.0000	19.35
51 trans-1,3-Dichloropropene	75	8.998	8.998	(0.888)	45088	20.0000	18.52
38 Trichloroethene	130	7.434	7.434	(1.036)	32493	20.0000	19.27
8 Trichlorofluoromethane	101	2.481	2.481	(0.389)	62285	20.0000	19.45(T)
5 Vinyl Chloride	62	1.728	1.728	(0.271)	49188	20.0000	19.38
62 m,p-Xylenes	106	10.400	10.400	(1.026)	119529	40.0000	40.21
63 o-Xylene	106	10.792	10.792	(1.064)	60925	20.0000	19.78

QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091706.D
Date : 17-SEP-2010 14:27
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091707.D
Report Date: 23-Sep-2010 12:38

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100917.b\D091707.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 17-SEP-2010 14:50 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD050;VSTD050;1;5;
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100917.b\8260BW.m
Meth Date : 23-Sep-2010 12:38 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 14:27 Cal File: D091706.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
*	1 Pentafluorobenzene	168	6.378	6.378	(1.000)	211266	50.0000	
*	36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	264051	50.0000	
*	47 Chlorobenzene-d5	117	10.138	10.138	(1.000)	251928	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	12.455	12.455	(1.000)	161558	50.0000	
$	30 Dibromofluoromethane	113	6.289	6.289	(0.986)	95123	50.0000	50.37
$	35 1,2-Dichloroethane-d4	65	6.660	6.660	(1.044)	151378	50.0000	49.09
$	48 Toluene-d8	98	8.700	8.700	(0.858)	361888	50.0000	49.23
$	69 4-Bromofluorobenzene	95	11.304	11.304	(1.115)	156839	50.0000	50.24
	31 1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	149832	50.0000	51.92
	68 1,1,2,2-Tetrachloroethane	83	11.446	11.446	(0.919)	109295	50.0000	49.49
	138 Freon TF	101	3.145	3.145	(0.493)	76089	50.0000	46.02
	53 1,1,2-Trichloroethane	83	9.176	9.176	(0.905)	70839	50.0000	48.16
	22 1,1-Dichloroethane	63	4.903	4.903	(0.769)	216002	50.0000	49.72
	11 1,1-Dichloroethene	96	3.119	3.119	(0.489)	78571	50.0000	50.33
	90 1,2,4-Trichlorobenzene	180	14.458	14.458	(1.161)	127990	50.0000	50.12
	89 1,2-Dibromo-3-Chloropropane	75	13.627	13.627	(1.094)	22929	50.0000	50.41
	57 1,2-Dibromoethane	107	9.673	9.673	(0.954)	87942	50.0000	50.33
	88 1,2-Dichlorobenzene	146	12.847	12.847	(1.031)	211849	50.0000	50.09
	33 1,2-Dichloroethane	62	6.749	6.749	(0.941)	189636	50.0000	50.13
	42 1,2-Dichloropropane	63	7.675	7.675	(1.070)	108437	50.0000	50.39
	83 1,3-Dichlorobenzene	146	12.392	12.392	(0.995)	212801	50.0000	50.87
	84 1,4-Dichlorobenzene	146	12.481	12.481	(1.002)	220967	50.0000	49.14

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091707.D
Report Date: 23-Sep-2010 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.904)	112930	100.000	90.21
52	2-Hexanone	43	9.443	9.443	(0.931)	164289	100.000	100.37
45	4-Methyl-2-Pentanone	43	8.611	8.611	(0.849)	260397	100.000	101.37
10	Acetone	43	3.245	3.245	(0.509)	81417	100.000	101.64
37	Benzene	78	6.718	6.718	(0.937)	352807	50.0000	49.43
39	Bromodichloromethane	83	7.973	7.973	(1.112)	135073	50.0000	54.04
66	Bromoform	173	10.980	10.980	(1.083)	64087	50.0000	48.13
6	Bromomethane	94	2.073	2.073	(0.325)	77632	50.0000	51.02
19	Carbon Disulfide	76	3.375	3.375	(0.529)	442907	100.000	104.47
34	Carbon Tetrachloride	117	6.472	6.472	(0.902)	121477	50.0000	47.36
59	Chlorobenzene	112	10.164	10.164	(1.003)	262385	50.0000	50.13
7	Chloroethane	64	2.188	2.188	(0.343)	78794	50.0000	48.61
28	Chloroform	83	6.100	6.100	(0.957)	186847	50.0000	49.74
3	Chloromethane	50	1.623	1.623	(0.255)	177185	50.0000	49.01
27	cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	94201	50.0000	48.54
46	cis-1,3-Dichloropropene	75	8.433	8.433	(1.176)	154634	50.0000	50.28
141	Cyclohexane	56	6.336	6.336	(0.993)	169559	50.0000	45.08
55	Dibromochloromethane	129	9.563	9.563	(0.943)	92476	50.0000	53.55
2	Dichlorodifluoromethane	85	1.435	1.435	(0.225)	113126	50.0000	48.17
61	Ethylbenzene	106	10.279	10.279	(1.014)	130299	50.0000	51.99
67	Isopropylbenzene	105	11.153	11.153	(1.100)	346698	50.0000	48.55
146	Methyl Acetate	43	3.736	3.736	(0.586)	170129	50.0000	48.15
17	Methylene Chloride	84	3.841	3.841	(0.602)	103819	50.0000	48.14
18	Methyl tert-butyl ether	73	4.333	4.333	(0.679)	294458	50.0000	49.55
147	Methylcyclohexane	83	7.628	7.628	(1.063)	96893	50.0000	45.17
64	Styrene	104	10.802	10.802	(1.066)	307590	50.0000	52.34
56	Tetrachloroethene	164	9.312	9.312	(0.918)	76699	50.0000	50.48
50	Toluene	91	8.768	8.768	(0.865)	386556	50.0000	49.86
20	trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	93352	50.0000	49.96
51	trans-1,3-Dichloropropene	75	8.998	8.998	(0.888)	133559	50.0000	48.03
38	Trichloroethene	130	7.434	7.434	(1.036)	87960	50.0000	50.77
8	Trichlorofluoromethane	101	2.476	2.476	(0.388)	174204	50.0000	52.17(T)
5	Vinyl Chloride	62	1.728	1.728	(0.271)	135992	50.0000	51.40
62	m,p-Xylenes	106	10.400	10.400	(1.026)	323671	100.000	104.51
63	o-Xylene	106	10.787	10.787	(1.064)	165067	50.0000	51.45

QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091707.D
Date : 17-SEP-2010 14:50
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;5;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091708.D
Report Date: 23-Sep-2010 12:38

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100917.b\D091708.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 17-SEP-2010 15:14 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD100;VSTD100;1;6;
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100917.b\8260BW.m
Meth Date : 23-Sep-2010 12:38 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 14:50 Cal File: D091707.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
*	1 Pentafluorobenzene	168	6.378	6.378	(1.000)	222469	50.0000	
*	36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	279842	50.0000	
*	47 Chlorobenzene-d5	117	10.138	10.138	(1.000)	267415	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	12.455	12.455	(1.000)	170222	50.0000	
$	30 Dibromofluoromethane	113	6.289	6.289	(0.986)	97753	50.0000	49.16
$	35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.045)	157277	50.0000	48.44
$	48 Toluene-d8	98	8.700	8.700	(0.858)	382518	50.0000	49.02
$	69 4-Bromofluorobenzene	95	11.305	11.305	(1.115)	164802	50.0000	49.73
	31 1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	338972	100.000	111.56
	68 1,1,2,2-Tetrachloroethane	83	11.451	11.451	(0.919)	227513	100.000	97.78
	138 Freon TF	101	3.151	3.151	(0.494)	185989	100.000	102.74
	53 1,1,2-Trichloroethane	83	9.176	9.176	(0.905)	151025	100.000	96.73
	22 1,1-Dichloroethane	63	4.903	4.903	(0.769)	462938	100.000	101.20
	11 1,1-Dichloroethene	96	3.119	3.119	(0.489)	181559	100.000	110.45
	90 1,2,4-Trichlorobenzene	180	14.458	14.458	(1.161)	291010	100.000	108.15
	89 1,2-Dibromo-3-Chloropropane	75	13.627	13.627	(1.094)	48924	100.000	99.62
	57 1,2-Dibromoethane	107	9.673	9.673	(0.954)	188574	100.000	101.68
	88 1,2-Dichlorobenzene	146	12.847	12.847	(1.031)	448969	100.000	100.76
	33 1,2-Dichloroethane	62	6.749	6.749	(0.941)	390586	100.000	97.43
	42 1,2-Dichloropropane	63	7.675	7.675	(1.070)	233442	100.000	102.35
	83 1,3-Dichlorobenzene	146	12.392	12.392	(0.995)	455319	100.000	103.32
	84 1,4-Dichlorobenzene	146	12.481	12.481	(1.002)	472800	100.000	99.80

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091708.D
Report Date: 23-Sep-2010 12:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24 2-Butanone	43	5.766	5.766	(0.904)	239064	200.000	181.36
52 2-Hexanone	43	9.443	9.443	(0.931)	360557	200.000	207.52
45 4-Methyl-2-Pentanone	43	8.611	8.611	(0.849)	556987	200.000	204.27
10 Acetone	43	3.245	3.245	(0.509)	171192	200.000	210.84
37 Benzene	78	6.718	6.718	(0.937)	760294	100.000	100.52
39 Bromodichloromethane	83	7.973	7.973	(1.112)	293014	100.000	110.62
66 Bromoform	173	10.980	10.980	(1.083)	147878	100.000	100.19
6 Bromomethane	94	2.063	2.063	(0.323)	167930	100.000	104.81
19 Carbon Disulfide	76	3.381	3.381	(0.530)	1010426	200.000	226.34
34 Carbon Tetrachloride	117	6.472	6.472	(0.902)	285187	100.000	101.99
59 Chlorobenzene	112	10.164	10.164	(1.003)	554717	100.000	99.85
7 Chloroethane	64	2.183	2.183	(0.342)	174681	100.000	102.34
28 Chloroform	83	6.100	6.100	(0.957)	391594	100.000	99.01
3 Chloromethane	50	1.623	1.623	(0.255)	384316	100.000	100.48
27 cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	200877	100.000	98.30
46 cis-1,3-Dichloropropene	75	8.433	8.433	(1.176)	339623	100.000	102.67
141 Cyclohexane	56	6.336	6.336	(0.993)	417935	100.000	101.31
55 Dibromochloromethane	129	9.563	9.563	(0.943)	204873	100.000	111.76
2 Dichlorodifluoromethane	85	1.440	1.440	(0.226)	262591	100.000	105.05
61 Ethylbenzene	106	10.279	10.279	(1.014)	290671	100.000	109.27
67 Isopropylbenzene	105	11.153	11.153	(1.100)	783542	100.000	101.09
146 Methyl Acetate	43	3.742	3.742	(0.587)	348424	100.000	93.66
17 Methylene Chloride	84	3.846	3.846	(0.603)	220178	100.000	96.95
18 Methyl tert-butyl ether	73	4.333	4.333	(0.679)	625674	100.000	99.98
147 Methylcyclohexane	83	7.628	7.628	(1.063)	244499	100.000	101.78
64 Styrene	104	10.802	10.802	(1.066)	659127	100.000	105.66
56 Tetrachloroethene	164	9.312	9.312	(0.918)	174471	100.000	108.19
50 Toluene	91	8.768	8.768	(0.865)	838980	100.000	101.96
20 trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	203361	100.000	103.36
51 trans-1,3-Dichloropropene	75	8.998	8.998	(0.888)	306408	100.000	100.90
38 Trichloroethene	130	7.434	7.434	(1.036)	195811	100.000	106.65
8 Trichlorofluoromethane	101	2.481	2.481	(0.389)	408149	100.000	116.08(T)
5 Vinyl Chloride	62	1.728	1.728	(0.271)	303496	100.000	108.93
62 m,p-Xylenes	106	10.400	10.400	(1.026)	718931	200.000	218.70
63 o-Xylene	106	10.787	10.787	(1.064)	360148	100.000	105.76

QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091708.D
Date : 17-SEP-2010 15:14
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;6;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091709.D
Report Date: 23-Sep-2010 12:38

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100917.b\D091709.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 17-SEP-2010 15:37 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD150;VSTD150;1;7;
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100917.b\8260BW.m
Meth Date : 23-Sep-2010 12:38 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 15:14 Cal File: D091708.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1	Pentafluorobenzene	168	6.378	6.378	(1.000)	236122	50.0000	
* 36	1,4-Difluorobenzene	114	7.173	7.173	(1.000)	300487	50.0000	
* 47	Chlorobenzene-d5	117	10.138	10.138	(1.000)	280794	50.0000	
* 70	1,4-Dichlorobenzene-d4	152	12.455	12.455	(1.000)	178921	50.0000	
$ 30	Dibromofluoromethane	113	6.289	6.289	(0.986)	103355	50.0000	48.97
$ 35	1,2-Dichloroethane-d4	65	6.665	6.665	(1.045)	162244	50.0000	47.08
$ 48	Toluene-d8	98	8.700	8.700	(0.858)	403243	50.0000	49.21
$ 69	4-Bromofluorobenzene	95	11.304	11.304	(1.115)	171998	50.0000	49.43
31	1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	545809	150.000	169.24
68	1,1,2,2-Tetrachloroethane	83	11.451	11.451	(0.919)	357727	150.000	146.27
138	Freon TF	101	3.145	3.145	(0.493)	302341	150.000	155.72
53	1,1,2-Trichloroethane	83	9.176	9.176	(0.905)	233850	150.000	142.65
22	1,1-Dichloroethane	63	4.903	4.903	(0.769)	734820	150.000	151.34
11	1,1-Dichloroethene	96	3.119	3.119	(0.489)	294297	150.000	168.69
90	1,2,4-Trichlorobenzene	180	14.458	14.458	(1.161)	455108	150.000	160.92
89	1,2-Dibromo-3-Chloropropane	75	13.621	13.621	(1.094)	78822	150.000	150.64
57	1,2-Dibromoethane	107	9.673	9.673	(0.954)	291457	150.000	149.66
88	1,2-Dichlorobenzene	146	12.847	12.847	(1.031)	692191	150.000	147.80
33	1,2-Dichloroethane	62	6.749	6.749	(0.941)	594752	150.000	138.17
42	1,2-Dichloropropane	63	7.675	7.675	(1.070)	366129	150.000	149.50
83	1,3-Dichlorobenzene	146	12.387	12.387	(0.995)	707894	150.000	152.82
84	1,4-Dichlorobenzene	146	12.476	12.476	(1.002)	736838	150.000	147.97

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091709.D
Report Date: 23-Sep-2010 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.904)	402422	300.000	287.63
52	2-Hexanone	43	9.442	9.442	(0.931)	563038	300.000	308.62
45	4-Methyl-2-Pentanone	43	8.611	8.611	(0.849)	879303	300.000	307.12
10	Acetone	43	3.245	3.245	(0.509)	268169	300.000	314.96
37	Benzene	78	6.717	6.717	(0.937)	1211621	150.000	149.19
39	Bromodichloromethane	83	7.973	7.973	(1.112)	460990	150.000	162.08
66	Bromoform	173	10.980	10.980	(1.083)	241158	150.000	151.97
6	Bromomethane	94	2.057	2.057	(0.323)	258102	150.000	151.78
19	Carbon Disulfide	76	3.381	3.381	(0.530)	1654939	300.000	349.27
34	Carbon Tetrachloride	117	6.472	6.472	(0.902)	467026	150.000	154.28
59	Chlorobenzene	112	10.164	10.164	(1.003)	866456	150.000	148.53
7	Chloroethane	64	2.183	2.183	(0.342)	276233	150.000	152.48
28	Chloroform	83	6.100	6.100	(0.957)	619432	150.000	147.56
3	Chloromethane	50	1.623	1.623	(0.255)	554659	150.000	136.47
27	cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	326464	150.000	150.52
46	cis-1,3-Dichloropropene	75	8.433	8.433	(1.176)	539807	150.000	151.29
141	Cyclohexane	56	6.336	6.336	(0.993)	683506	150.000	154.41
55	Dibromochloromethane	129	9.563	9.563	(0.943)	324929	150.000	168.82
2	Dichlorodifluoromethane	85	1.435	1.435	(0.225)	416795	150.000	156.63
61	Ethylbenzene	106	10.279	10.279	(1.014)	460215	150.000	164.77
67	Isopropylbenzene	105	11.153	11.153	(1.100)	1246189	150.000	152.08
146	Methyl Acetate	43	3.741	3.741	(0.587)	551333	150.000	139.63
17	Methylene Chloride	84	3.846	3.846	(0.603)	342992	150.000	142.30
18	Methyl tert-butyl ether	73	4.338	4.338	(0.680)	999508	150.000	150.49
147	Methylcyclohexane	83	7.628	7.628	(1.063)	398048	150.000	152.68
64	Styrene	104	10.802	10.802	(1.066)	1028618	150.000	157.04
56	Tetrachloroethene	164	9.312	9.312	(0.918)	278298	150.000	164.35
50	Toluene	91	8.768	8.768	(0.865)	1331667	150.000	154.12
20	trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	332525	150.000	159.24
51	trans-1,3-Dichloropropene	75	8.998	8.998	(0.888)	482950	150.000	150.21
38	Trichloroethene	130	7.439	7.439	(1.037)	313117	150.000	158.83
8	Trichlorofluoromethane	101	2.476	2.476	(0.388)	645019	150.000	172.84(T)
5	Vinyl Chloride	62	1.728	1.728	(0.271)	483958	150.000	163.67
62	m,p-Xylenes	106	10.400	10.400	(1.026)	1127407	300.000	326.62
63	o-Xylene	106	10.787	10.787	(1.064)	556534	150.000	155.64

QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091709.D
Date : 17-SEP-2010 15:37
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;7;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i

Operator: PC
Column diameter: 0.18

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091710.D
Report Date: 23-Sep-2010 12:38

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100917.b\D091710.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 17-SEP-2010 16:01 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD200;VSTD200;1;8;
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100917.b\8260BW.m
Meth Date : 23-Sep-2010 12:38 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 15:37 Cal File: D091709.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	6.378	6.378	(1.000)	249950	50.0000	
*	36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	316860	50.0000	
*	47 Chlorobenzene-d5	117	10.138	10.138	(1.000)	293215	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	12.455	12.455	(1.000)	185923	50.0000	
$	30 Dibromofluoromethane	113	6.289	6.289	(0.986)	107197	50.0000	47.98
$	35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.045)	163647	50.0000	44.86
$	48 Toluene-d8	98	8.700	8.700	(0.858)	427226	50.0000	49.93
$	69 4-Bromofluorobenzene	95	11.304	11.304	(1.115)	178909	50.0000	49.24
	31 1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	729926	200.000	213.81(A)
	68 1,1,2,2-Tetrachloroethane	83	11.451	11.451	(0.919)	494599	200.000	194.61
	138 Freon TF	101	3.145	3.145	(0.493)	402550	200.000	195.06
	53 1,1,2-Trichloroethane	83	9.176	9.176	(0.905)	324902	200.000	189.80
	22 1,1-Dichloroethane	63	4.903	4.903	(0.769)	997584	200.000	194.09
	11 1,1-Dichloroethene	96	3.119	3.119	(0.489)	395425	200.000	214.11(A)
	90 1,2,4-Trichlorobenzene	180	14.458	14.458	(1.161)	626309	200.000	213.11(A)
	89 1,2-Dibromo-3-Chloropropane	75	13.621	13.621	(1.094)	109700	200.000	199.71
	57 1,2-Dibromoethane	107	9.673	9.673	(0.954)	400343	200.000	196.87
	88 1,2-Dichlorobenzene	146	12.847	12.847	(1.031)	942872	200.000	193.74
	33 1,2-Dichloroethane	62	6.749	6.749	(0.941)	794059	200.000	174.94
	42 1,2-Dichloropropane	63	7.675	7.675	(1.070)	504076	200.000	195.20
	83 1,3-Dichlorobenzene	146	12.392	12.392	(0.995)	968795	200.000	201.27(A)
	84 1,4-Dichlorobenzene	146	12.481	12.481	(1.002)	1010728	200.000	195.33

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091710.D
Report Date: 23-Sep-2010 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.904)	521827	400.000	352.34
52	2-Hexanone	43	9.442	9.442	(0.931)	776722	400.000	407.71(A)
45	4-Methyl-2-Pentanone	43	8.611	8.611	(0.849)	1203210	400.000	402.45(A)
10	Acetone	43	3.245	3.245	(0.509)	342153	400.000	381.25
37	Benzene	78	6.718	6.718	(0.937)	1669069	200.000	194.90
39	Bromodichloromethane	83	7.973	7.973	(1.112)	629015	200.000	209.73(A)
66	Bromoform	173	10.980	10.980	(1.083)	335652	200.000	198.94
6	Bromomethane	94	2.057	2.057	(0.323)	336772	200.000	187.09
19	Carbon Disulfide	76	3.381	3.381	(0.530)	2258333	400.000	450.25(A)
34	Carbon Tetrachloride	117	6.472	6.472	(0.902)	628997	200.000	196.37
59	Chlorobenzene	112	10.164	10.164	(1.003)	1186689	200.000	194.81
7	Chloroethane	64	2.178	2.178	(0.342)	372958	200.000	194.49
28	Chloroform	83	6.100	6.100	(0.957)	828916	200.000	186.54
3	Chloromethane	50	1.623	1.623	(0.255)	732359	200.000	170.11
27	cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	445170	200.000	193.90
46	cis-1,3-Dichloropropene	75	8.433	8.433	(1.176)	745611	200.000	197.73
141	Cyclohexane	56	6.336	6.336	(0.993)	927562	200.000	197.07
55	Dibromochloromethane	129	9.563	9.563	(0.943)	449189	200.000	223.49(A)
2	Dichlorodifluoromethane	85	1.435	1.435	(0.225)	542817	200.000	192.49
61	Ethylbenzene	106	10.279	10.279	(1.014)	628651	200.000	215.54(A)
67	Isopropylbenzene	105	11.158	11.158	(1.101)	1702206	200.000	198.30
146	Methyl Acetate	43	3.742	3.742	(0.587)	746052	200.000	178.50
17	Methylene Chloride	84	3.846	3.846	(0.603)	464998	200.000	182.25
18	Methyl tert-butyl ether	73	4.338	4.338	(0.680)	1364908	200.000	194.14
147	Methylcyclohexane	83	7.628	7.628	(1.063)	546334	200.000	198.18
64	Styrene	104	10.802	10.802	(1.066)	1413608	200.000	206.67(A)
56	Tetrachloroethene	164	9.312	9.312	(0.918)	377763	200.000	213.64(A)
50	Toluene	91	8.768	8.768	(0.865)	1843387	200.000	204.31(A)
20	trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	450230	200.000	203.68(A)
51	trans-1,3-Dichloropropene	75	8.998	8.998	(0.888)	674103	200.000	199.94
38	Trichloroethene	130	7.439	7.439	(1.037)	428882	200.000	206.31(A)
8	Trichlorofluoromethane	101	2.476	2.476	(0.388)	850872	200.000	215.39(TA)
5	Vinyl Chloride	62	1.728	1.728	(0.271)	645893	200.000	206.35(A)
62	m,p-Xylenes	106	10.400	10.400	(1.026)	1535216	400.000	425.93(A)
63	o-Xylene	106	10.787	10.787	(1.064)	757254	200.000	202.80(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091710.D
Date : 17-SEP-2010 16:01
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091711.D
Report Date: 23-Sep-2010 12:38

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100917.b\D091711.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 17-SEP-2010 16:48 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100917.b\8260BW.m
Meth Date : 23-Sep-2010 12:38 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.377	6.378	(1.000)	243583	50.0000	
* 36 1,4-Difluorobenzene	114	7.172	7.173	(1.000)	305790	50.0000	
* 47 Chlorobenzene-d5	117	10.138	10.138	(1.000)	285540	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.455	12.455	(1.000)	177508	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.986)	106538	48.9339	48.93
$ 35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.045)	163066	45.8705	45.87
$ 48 Toluene-d8	98	8.700	8.700	(0.858)	412973	49.5677	49.56
$ 69 4-Bromofluorobenzene	95	11.304	11.304	(1.115)	173136	48.9360	48.93
31 1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	159831	48.0429	48.04
68 1,1,2,2-Tetrachloroethane	83	11.446	11.451	(0.919)	122290	50.4010	50.40
138 Freon TF	101	3.140	3.145	(0.492)	78559	41.5348	41.53
53 1,1,2-Trichloroethane	83	9.176	9.176	(0.905)	81437	48.8534	48.85
22 1,1-Dichloroethane	63	4.903	4.903	(0.769)	243509	48.6178	48.61
11 1,1-Dichloroethene	96	3.119	3.119	(0.489)	89448	49.7008	49.70
90 1,2,4-Trichlorobenzene	180	14.458	14.458	(1.161)	139912	49.8659	49.86
89 1,2-Dibromo-3-Chloropropane	75	13.621	13.621	(1.094)	24956	49.9608	49.96
57 1,2-Dibromoethane	107	9.673	9.673	(0.954)	98989	49.9874	49.98
88 1,2-Dichlorobenzene	146	12.847	12.847	(1.031)	226634	48.7781	48.77
33 1,2-Dichloroethane	62	6.749	6.749	(0.941)	202045	46.1254	46.12
42 1,2-Dichloropropane	63	7.675	7.675	(1.070)	124209	49.8415	49.84
83 1,3-Dichlorobenzene	146	12.387	12.392	(0.995)	227860	49.5836	49.58
84 1,4-Dichlorobenzene	146	12.476	12.481	(1.002)	239679	48.5160	48.51

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091711.D
Report Date: 23-Sep-2010 12:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
24 2-Butanone	43	5.766	5.766	(0.904)	130620	90.5027	90.50
52 2-Hexanone	43	9.442	9.442	(0.931)	185784	100.142	100.14
45 4-Methyl-2-Pentanone	43	8.611	8.611	(0.849)	297811	102.291	102.29
10 Acetone	43	3.245	3.245	(0.509)	89592	96.6460	96.64
37 Benzene	78	6.717	6.718	(0.937)	410423	49.6623	49.66
39 Bromodichloromethane	83	7.973	7.973	(1.112)	148750	51.3941	51.39
66 Bromoform	173	10.980	10.980	(1.083)	73135	48.4414	48.44
6 Bromomethane	94	2.068	2.057	(0.324)	81299	46.3459	46.34
19 Carbon Disulfide	76	3.381	3.381	(0.530)	512104	104.770	104.77
34 Carbon Tetrachloride	117	6.472	6.472	(0.902)	126457	42.8251	42.82
59 Chlorobenzene	112	10.164	10.164	(1.003)	294533	49.6514	49.65
7 Chloroethane	64	2.188	2.178	(0.343)	91162	48.7821	48.78
28 Chloroform	83	6.100	6.100	(0.957)	206946	47.7909	47.79
3 Chloromethane	50	1.623	1.623	(0.255)	207779	49.8486	49.84
27 cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	113758	50.8452	50.84
46 cis-1,3-Dichloropropene	75	8.433	8.433	(1.176)	177538	49.8633	49.86
141 Cyclohexane	56	6.336	6.336	(0.993)	177592	41.2454	41.24
55 Dibromochloromethane	129	9.563	9.563	(0.943)	102998	52.6244	52.62
2 Dichlorodifluoromethane	85	1.435	1.435	(0.225)	117154	43.3702	43.37
61 Ethylbenzene	106	10.279	10.279	(1.014)	143271	50.4446	50.44
67 Isopropylbenzene	105	11.153	11.158	(1.100)	364206	45.1530	45.15
146 Methyl Acetate	43	3.741	3.742	(0.587)	188712	46.3319	46.33
17 Methylene Chloride	84	3.846	3.846	(0.603)	120524	48.4738	48.47
18 Methyl tert-butyl ether	73	4.338	4.338	(0.680)	343523	50.1388	50.13
147 Methylcyclohexane	83	7.627	7.628	(1.063)	101853	41.4086	41.40
64 Styrene	104	10.802	10.802	(1.066)	342464	51.4161	51.41
56 Tetrachloroethene	164	9.312	9.312	(0.918)	82307	47.7994	47.79
50 Toluene	91	8.768	8.768	(0.865)	440942	50.1871	50.18
20 trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	109424	50.7970	50.79
51 trans-1,3-Dichloropropene	75	8.998	8.998	(0.888)	152724	48.4406	48.44
38 Trichloroethene	130	7.434	7.439	(1.036)	100564	50.1285	50.12
8 Trichlorofluoromethane	101	2.481	2.476	(0.389)	178116	46.2679	46.26(T)
5 Vinyl Chloride	62	1.723	1.728	(0.270)	149938	49.1545	49.15
62 m,p-Xylenes	106	10.394	10.400	(1.025)	359344	102.377	102.37
63 o-Xylene	106	10.787	10.787	(1.064)	180488	49.6372	49.63

QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\alshsws007\chem\VOA2.i\D100917.b\D091711.D
Date : 17-SEP-2010 16:48
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i

Operator: PC
Column diameter: 0.18

ALS Laboratory Group — **MS VOA 3 - Instrument Run Log** — Logbook #22813

Sequence #: G1009916	IS ID: 22710-56.01	Method ID: (8260) / 624	SOP ID: MSV-001 / MSV-002	
Cal STD ID: 22710-55.01	ICV StD ID 23210-15 1 16	LCS/MS ID: 22710-55-01	Surr. ID: 22710-56.02	

File ID	WO #	SX #	pH	Soil/ Water	Sample-Vol Wt (ml or g)	Purge Vol.-mL	Dil. Fac.	Inj. Date	Inj. Time	Status	Comments
G091601	BFB	TUNE	—	—	—	—	—	6/16/10	1426	✓	
02	VSTD0025	2.5	N/A	SOIL	5mls	5mls	1		1449	✓	
03	VSTD005	5.0					1		1517	✓	
04	VSTD010	10.0					1		1545	✓	
05	VSTD020	20.0					1		1613	✓	
06	VSTD050	50.0					1		1641	✓	
07	VSTD100	100.0					1		1709	✓	
08	VSTD150	150.0					1		1737	✓	
09	VSTD200	200.0					1		1805	✓	
G091610	VSTD050	VSTD050					1		1900	✓	
11	VLCSS1	091610					1		1928	✓	
12	VLCSDS1	091610					1		1956	✓	
13	VBLKS1	091610					1		2023	✓	
14	1009125	03A					1		2051	✓	⑤ Lowest Calib. Point
15	1009505	10A			5grs		1		2119	✓	
16		10AMS					1		2146	✓	
17		10AMSD					1		2214	✓	
18	1009521	03D					1		2241	✓	
19		MB					1		2308	✓	
G091620		05A					1	6/17/10	2336	✓	
21	1009522	01A					1		0003	✓	
22		02A					1		0030	✓	
23	1009520	01A					1		0057	✓	
24		02A					1		0124	✓	
25		03A					1		0152	✓	
G091626		05A					1		0220	✓	

Pentafluorobenzene:	99272	Chlorobenzene-d_5:	150338	BFB Ion 95 Response:	36344
1,4-Difluorobenzene:	179799	1,4-Dichlorobenzene-d_4:	67124	Analyst:	LVK

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FORM 3
SOIL VOLATILE METHOD SPIKE RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Matrix Spike - Sample No.: VSTD050 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	% REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50.00	45.94	92	70-130
Chloromethane	50.00	47.09	94	70-130
Vinyl Chloride	50.00	50.35	101	70-130
Bromomethane	50.00	40.66	81	70-130
Chloroethane	50.00	50.47	101	70-130
Trichlorofluoromethane	50.00	46.11	92	70-130
Acetone	100.00	85.38	85	70-130
1,1-Dichloroethene	50.00	47.00	94	70-130
Methylene Chloride	50.00	44.12	88	70-130
Carbon Disulfide	100.00	100.51	100	70-130
trans-1,2-Dichloroethen	50.00	49.49	99	70-130
1,1-Dichloroethane	50.00	48.09	96	70-130
2-Butanone	100.00	89.77	90	70-130
cis-1,2-Dichloroethene	50.00	48.10	96	70-130
Chloroform	50.00	47.97	96	70-130
1,1,1-Trichloroethane	50.00	49.72	99	70-130
1,2-Dichloroethane	50.00	46.48	93	70-130
Carbon Tetrachloride	50.00	48.69	97	70-130
Benzene	50.00	47.62	95	70-130
Trichloroethene	50.00	48.01	96	70-130
Bromodichloromethane	50.00	47.58	95	70-130
1,2-Dichloropropane	50.00	47.77	96	70-130
4-Methyl-2-Pentanone	100.00	82.56	82	70-130
cis-1,3-Dichloropropene	50.00	46.99	94	70-130
Toluene	50.00	47.23	94	70-130
trans-1,3-Dichloroprope	50.00	46.95	94	70-130
2-Hexanone	100.00	84.05	84	70-130
1,1,2-Trichloroethane	50.00	45.97	92	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

_____

FORM III VOA

FORM 3
SOIL VOLATILE METHOD SPIKE RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Matrix Spike - Sample No.: VSTD050 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	% REC #	QC. LIMITS REC.
Dibromochloromethane	50.00	47.99	96	70-130
Tetrachloroethene	50.00	48.32	97	70-130
1,2-Dibromoethane	50.00	45.68	91	70-130
Chlorobenzene	50.00	46.76	94	70-130
Ethylbenzene	50.00	48.24	96	70-130
m,p-Xylenes	100.00	94.73	95	70-130
o-Xylene	50.00	47.11	94	70-130
Styrene	50.00	47.93	96	70-130
Bromoform	50.00	43.20	86	70-130
Isopropylbenzene	50.00	48.54	97	70-130
1,1,2,2-Tetrachloroetha	50.00	44.77	90	70-130
1,3-Dichlorobenzene	50.00	47.03	94	70-130
1,4-Dichlorobenzene	50.00	46.66	93	70-130
1,2-Dichlorobenzene	50.00	46.53	93	70-130
1,2-Dibromo-3-Chloropro	50.00	43.20	86	70-130
1,2,4-Trichlorobenzene	50.00	47.15	94	70-130
Methyl tert-butyl ether	50.00	46.09	92	70-130
Methylcyclohexane	50.00	46.53	93	70-130
Cyclohexane	50.00	46.58	93	70-130
Freon TF	50.00	46.55	93	70-130
Methyl Acetate	50.00	41.65	83	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

_____

FORM III VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA3 Calibration Date(s): 09/16/10 09/16/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1449 1805

LAB FILE ID: RF2.5: G091602 RF5: G091603 RF10: G091604
RF20: G091605 RF50: G091606

COMPOUND	RF2.5	RF5	RF10	RF20	RF50
Dichlorodifluoromethane	0.200	0.403	0.319	0.449	0.498
Chloromethane	1.186	1.182	1.049	1.182	1.195
Vinyl Chloride	0.724	0.797	0.670	0.862	0.931
Bromomethane	0.623	0.657	0.584	0.554	0.543
Chloroethane	0.437	0.583	0.526	0.611	0.645
Trichlorofluoromethane	0.548	0.582	0.499	0.699	0.797
Acetone	0.561	0.429	0.313	0.282	0.254
1,1-Dichloroethene	0.358	0.395	0.346	0.448	0.485
Methylene Chloride	0.776	0.790	0.820	0.654	0.667
Carbon Disulfide	1.589	1.708	1.523	1.877	2.029
trans-1,2-Dichloroethene	0.475	0.536	0.475	0.563	0.586
1,1-Dichloroethane	1.034	1.140	1.041	1.162	1.210
2-Butanone	0.427	0.409	0.360	0.385	0.394
cis-1,2-Dichloroethene	0.519	0.578	0.528	0.608	0.618
Chloroform	0.809	0.933	0.878	0.967	0.992
1,1,1-Trichloroethane	0.647	0.681	0.616	0.757	0.796
1,2-Dichloroethane	0.408	0.462	0.436	0.474	0.471
Carbon Tetrachloride	0.291	0.278	0.237	0.302	0.320
Benzene	1.127	1.244	1.151	1.302	1.291
Trichloroethene	0.254	0.261	0.243	0.284	0.291
Bromodichloromethane	0.317	0.363	0.349	0.388	0.400
1,2-Dichloropropane	0.284	0.327	0.309	0.344	0.348
4-Methyl-2-Pentanone	0.652	0.674	0.599	0.608	0.648
cis-1,3-Dichloropropene	0.455	0.505	0.493	0.545	0.540
Toluene	1.279	1.403	1.249	1.427	1.441
trans-1,3-Dichloropropene	0.393	0.465	0.447	0.490	0.490
2-Hexanone	0.379	0.419	0.371	0.398	0.435
1,1,2-Trichloroethane	0.215	0.248	0.240	0.261	0.262
Dibromochloromethane	0.226	0.271	0.259	0.286	0.301
Tetrachloroethene	0.205	0.224	0.190	0.233	0.248
1,2-Dibromoethane	0.248	0.283	0.274	0.293	0.289
Chlorobenzene	0.751	0.878	0.798	0.874	0.879
Ethylbenzene	0.379	0.434	0.390	0.454	0.463
m,p-Xylenes	0.500	0.554	0.503	0.589	0.597
o-Xylene	0.471	0.526	0.503	0.553	0.574
Styrene	0.765	0.876	0.849	0.956	0.988
Bromoform	0.107	0.138	0.142	0.154	0.173

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA3 Calibration Date(s): 09/16/10 09/16/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1449 1805

LAB FILE ID: RF2.5: G091602 RF5: G091603 RF10: G091604
RF20: G091605 RF50: G091606

COMPOUND	RF2.5	RF5	RF10	RF20	RF50
Isopropylbenzene	1.188	1.332	1.187	1.447	1.494
1,1,2,2-Tetrachloroethane	0.743	0.864	0.799	0.870	0.936
1,3-Dichlorobenzene	1.141	1.259	1.204	1.346	1.370
1,4-Dichlorobenzene	1.180	1.324	1.242	1.362	1.403
1,2-Dichlorobenzene	1.073	1.242	1.138	1.254	1.291
1,2-Dibromo-3-Chloropropane	0.031	0.086	0.083	0.105	0.112
1,2,4-Trichlorobenzene	0.609	0.616	0.586	0.665	0.731
Methyl tert-butyl ether	1.577	1.758	1.683	1.791	1.832
Methylcyclohexane	0.603	0.624	0.544	0.812	0.978
Cyclohexane	0.879	0.933	0.776	1.160	1.317
Freon TF	0.321	0.373	0.329	0.476	0.563
Methyl Acetate	0.694	0.664	0.595	0.621	0.634
Dibromofluoromethane	0.534	0.518	0.535	0.543	0.544
1,2-Dichloroethane-d4	0.414	0.394	0.402	0.400	0.396
Toluene-d8	1.323	1.336	1.313	1.326	1.301
4-Bromofluorobenzene	0.528	0.523	0.522	0.518	0.516

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA3 Calibration Date(s): 09/16/10 09/16/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1449 1805

LAB FILE ID: RF100: G091607 RF150: G091608 RF200: G091609

COMPOUND	RF100	RF150	RF200
Dichlorodifluoromethane	0.530	0.505	0.510
Chloromethane	1.260	1.195	1.217
Vinyl Chloride	0.986	0.940	0.972
Bromomethane	0.569	0.538	0.569
Chloroethane	0.695	0.663	0.692
Trichlorofluoromethane	0.860	0.820	0.842
Acetone	0.241	0.224	0.232
1,1-Dichloroethene	0.526	0.502	0.522
Methylene Chloride	0.670	0.634	0.652
Carbon Disulfide	2.184	2.090	2.152
trans-1,2-Dichloroethene	0.635	0.607	0.627
1,1-Dichloroethane	1.296	1.249	1.278
2-Butanone	0.352	0.341	0.378
cis-1,2-Dichloroethene	0.648	0.642	0.656
Chloroform	1.060	1.020	1.052
1,1,1-Trichloroethane	0.861	0.822	0.853
1,2-Dichloroethane	0.487	0.479	0.487
Carbon Tetrachloride	0.355	0.349	0.355
Benzene	1.388	1.355	1.384
Trichloroethene	0.319	0.311	0.317
Bromodichloromethane	0.438	0.430	0.442
1,2-Dichloropropane	0.375	0.368	0.370
4-Methyl-2-Pentanone	0.607	0.586	0.604
cis-1,3-Dichloropropene	0.581	0.569	0.582
Toluene	1.549	1.486	1.512
trans-1,3-Dichloropropene	0.518	0.510	0.521
2-Hexanone	0.399	0.383	0.396
1,1,2-Trichloroethane	0.272	0.266	0.274
Dibromochloromethane	0.322	0.322	0.334
Tetrachloroethene	0.266	0.259	0.266
1,2-Dibromoethane	0.304	0.297	0.305
Chlorobenzene	0.948	0.917	0.944
Ethylbenzene	0.503	0.488	0.500
m,p-Xylenes	0.642	0.620	0.634
o-Xylene	0.616	0.596	0.608
Styrene	1.061	1.030	1.056
Bromoform	0.184	0.186	0.192

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA3 Calibration Date(s): 09/16/10 09/16/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1449 1805

LAB FILE ID: RF100: G091607 RF150: G091608 RF200: G091609

COMPOUND	RF100	RF150	RF200
Isopropylbenzene	1.617	1.564	1.592
1,1,2,2-Tetrachloroethane	0.906	0.890	0.926
1,3-Dichlorobenzene	1.457	1.420	1.465
1,4-Dichlorobenzene	1.457	1.430	1.469
1,2-Dichlorobenzene	1.350	1.308	1.346
1,2-Dibromo-3-Chloropropane	0.113	0.114	0.118
1,2,4-Trichlorobenzene	0.798	0.799	0.820
Methyl tert-butyl ether	1.935	1.849	1.918
Methylcyclohexane	1.030	0.999	1.029
Cyclohexane	1.456	1.392	1.408
Freon TF	0.614	0.576	0.598
Methyl Acetate	0.604	0.584	0.607
Dibromofluoromethane	0.556	0.544	0.548
1,2-Dichloroethane-d4	0.388	0.391	0.388
Toluene-d8	1.309	1.298	1.283
4-Bromofluorobenzene	0.514	0.518	0.514

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA3 Calibration Date(s): 09/16/10 09/16/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1449 1805

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Dichlorodifluoromethane	2ORDR	5.162e-002	1.83838091	5.102e-002	0.999
Chloromethane	AVRG		1.18333281		5.1
Vinyl Chloride	AVRG		0.86015097		13.8
Bromomethane	AVRG		0.57974851		7.1
Chloroethane	AVRG		0.60654991		14.7
Trichlorofluoromethane	2ORDR	4.988e-002	1.16930992	2.272e-003	0.999
Acetone	2ORDR	-0.1844128	4.44252363	4.655e-003	0.999
1,1-Dichloroethene	2ORDR	3.651e-002	1.96263006	-2.66e-002	0.999
Methylene Chloride	AVRG		0.70801656		10.4
Carbon Disulfide	AVRG		1.89404119		13.7
trans-1,2-Dichloroethene	AVRG		0.56330848		11.2
1,1-Dichloroethane	AVRG		1.17638148		8.6
2-Butanone	AVRG		0.38078333		7.7
cis-1,2-Dichloroethene	AVRG		0.59967194		8.9
Chloroform	AVRG		0.96392586		9.0
1,1,1-Trichloroethane	AVRG		0.75420821		12.6
1,2-Dichloroethane	AVRG		0.46300482		6.0
Carbon Tetrachloride	AVRG		0.31098886		13.5
Benzene	AVRG		1.28033136		7.8
Trichloroethene	AVRG		0.28511750		10.4
Bromodichloromethane	AVRG		0.39099322		11.6
1,2-Dichloropropane	AVRG		0.34053373		9.5
4-Methyl-2-Pentanone	AVRG		0.62215665		5.0
cis-1,3-Dichloropropene	AVRG		0.53374326		8.6
Toluene	AVRG		1.41837232		7.5
trans-1,3-Dichloropropene	AVRG		0.47928794		9.1
2-Hexanone	AVRG		0.39767072		5.3
1,1,2-Trichloroethane	AVRG		0.25482626		7.8
Dibromochloromethane	AVRG		0.29022402		12.6
Tetrachloroethene	AVRG		0.23644151		12.0
1,2-Dibromoethane	AVRG		0.28658832		6.5
Chlorobenzene	AVRG		0.87365217		7.9
Ethylbenzene	AVRG		0.45133586		10.5
m,p-Xylenes	AVRG		0.57974367		9.6
o-Xylene	AVRG		0.55606171		9.4
Styrene	AVRG		0.94773840		11.4
Bromoform	2ORDR	3.282e-002	5.65409878	-0.6477496	1.000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA3 Calibration Date(s): 09/16/10 09/16/10

Column: DB624 ID: 0.18 (mm) Calibration Time(s): 1449 1805

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Isopropylbenzene	AVRG		1.42773644		12.2
1,1,2,2-Tetrachloroethane	AVRG		0.86671671		7.6
1,3-Dichlorobenzene	AVRG		1.33269274		9.0
1,4-Dichlorobenzene	AVRG		1.35851983		7.7
1,2-Dichlorobenzene	AVRG		1.25021780		7.9
1,2-Dibromo-3-Chloropropane	2ORDR	2.79e-002	9.08305724	-1.4100379	1.000
1,2,4-Trichlorobenzene	AVRG		0.70300830		13.6
Methyl tert-butyl ether	AVRG		1.79279593		6.7
Methylcyclohexane	2ORDR	5.549e-002	0.97298243	-2.68e-003	0.999
Cyclohexane	2ORDR	6.076e-002	0.67707339	4.154e-003	0.999
Freon TF	2ORDR	5.703e-002	1.64772004	3.436e-003	0.999
Methyl Acetate	AVRG		0.62530436		6.0
Dibromofluoromethane	AVRG		0.54045466		2.1
1,2-Dichloroethane-d4	AVRG		0.39656151		2.2
Toluene-d8	AVRG		1.31120255		1.3
4-Bromofluorobenzene	AVRG		0.51921826		1.0

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091601.D Page 1

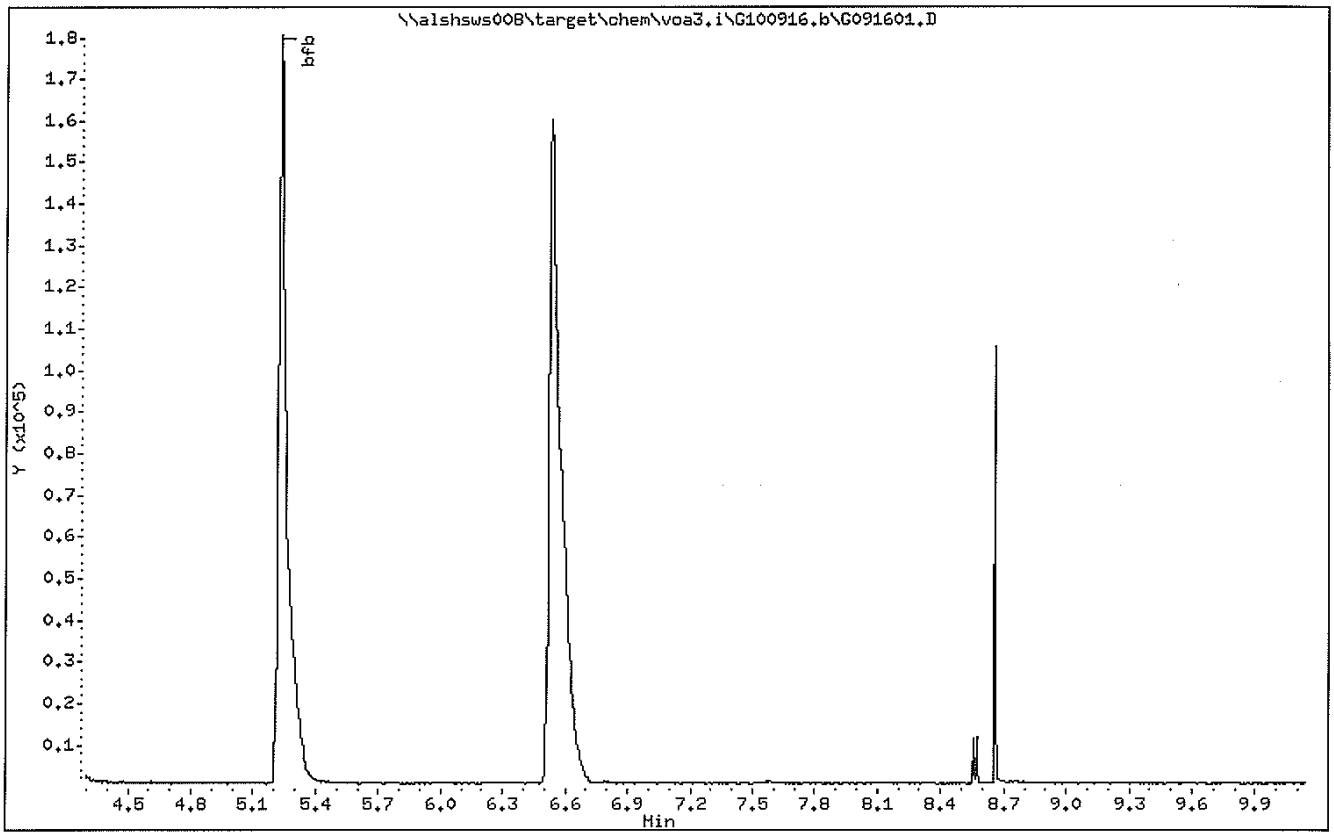
Date : 16-SEP-2010 14:26

Client ID: BFB Instrument: VOA3.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: WLR

Column phase: DB624 Column diameter: 0.25



Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091601.D

Date : 16-SEP-2010 14:26

Client ID: BFB

Instrument: VOA3.i

Sample Info: BFB;BFB;3;;BFB

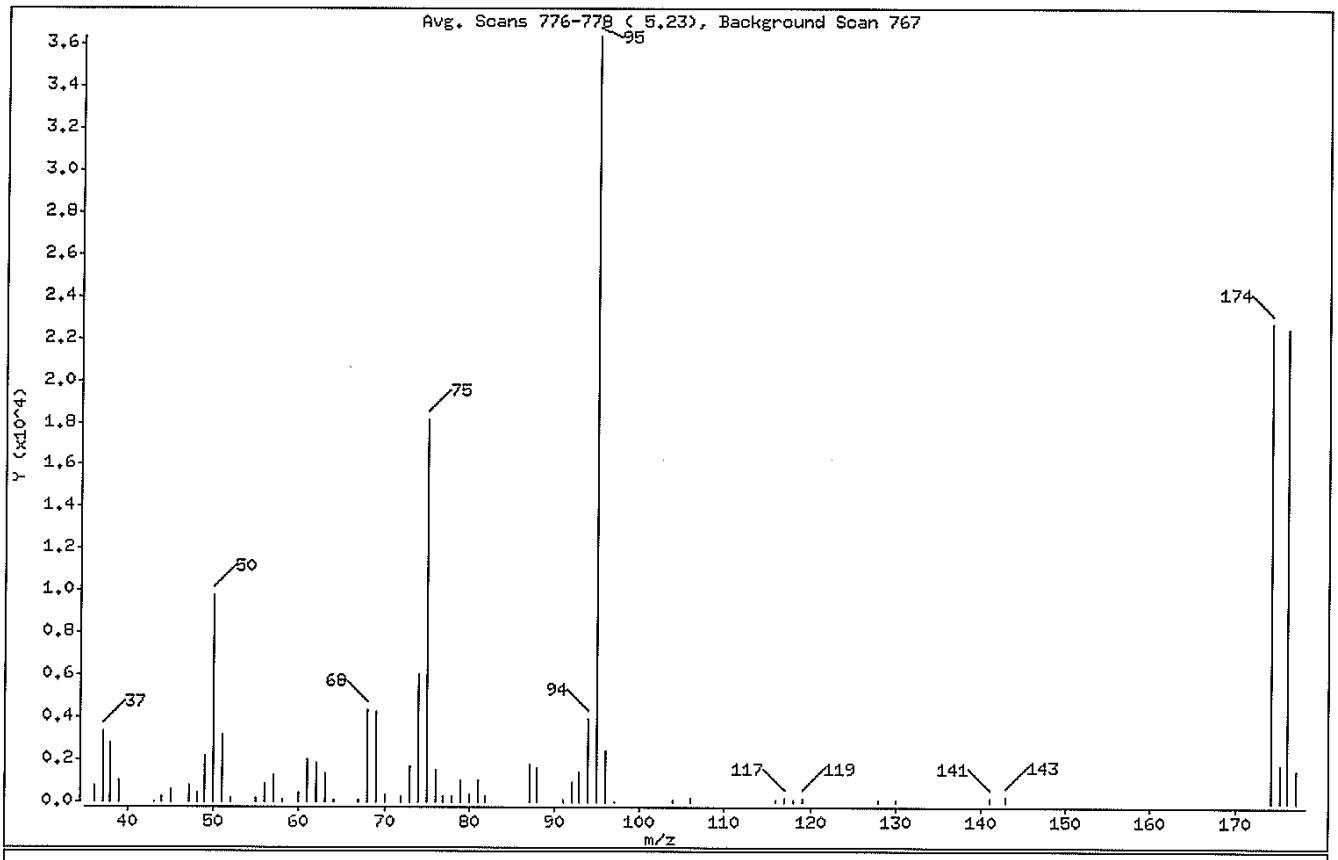
Volume Injected (uL): 2.0

Operator: WLR

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.99
75	30.00 - 60.00% of mass 95	49.99
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	62.62
175	5.00 - 9.00% of mass 174	4.91 (7.83)
176	95.00 - 101.00% of mass 174	61.94 (98.91)
177	5.00 - 9.00% of mass 176	4.03 (6.51)

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091601.D

Date : 16-SEP-2010 14:26

Client ID: BFB Instrument: VOA3.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: WLR

Column phase: DB624 Column diameter: 0.25

Data File: G091601.D
Spectrum: Avg. Scans 776-778 (5.23), Background Scan 767
Location of Maximum: 95.00
Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	774	58.00	42	78.00	219	116.00	91
37.00	3372	60.00	430	79.00	996	117.00	147
38.00	2790	61.00	1993	80.00	303	118.00	95
39.00	1038	62.00	1855	81.00	1043	119.00	182
43.00	34	63.00	1342	82.00	234	128.00	45
44.00	222	64.00	96	87.00	1717	130.00	92
45.00	545	67.00	120	88.00	1622	141.00	205
47.00	723	68.00	4375	91.00	122	143.00	210
48.00	393	69.00	4265	92.00	893	174.00	22760
49.00	2161	70.00	366	93.00	1379	175.00	1783
50.00	9809	72.00	220	94.00	3965	176.00	22512
51.00	3159	73.00	1652	95.00	36344	177.00	1466
52.00	133	74.00	6013	96.00	2451		
55.00	173	75.00	18168	97.00	39		
56.00	815	76.00	1520	104.00	108		
57.00	1251	77.00	240	106.00	128		

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091602.D
Report Date: 23-Sep-2010 14:41

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100916.b\G091602.D
Lab Smp Id: VSTD002.5 Client Smp ID: VSTD002.5
Inj Date : 16-SEP-2010 14:49 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VSTD002.5;VSTD002.5;1;1;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\alshsws008\Target\chem\voa3.i\G100916.b\8260BS.m
Meth Date : 23-Sep-2010 14:41 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

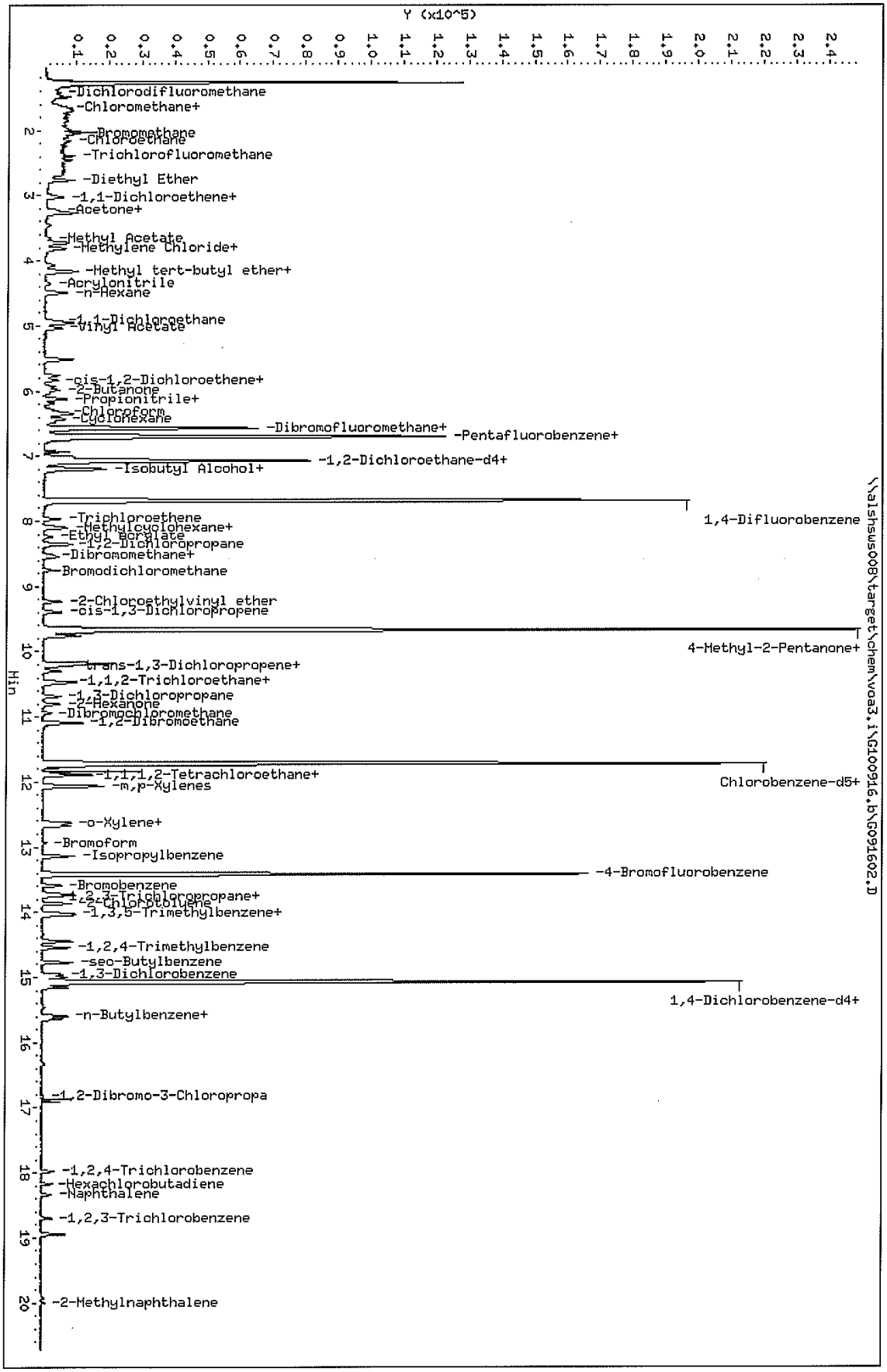
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
* 1	Pentafluorobenzene	168	6.698	6.698	(1.000)	98320	50.0000	
* 36	1,4-Difluorobenzene	114	7.684	7.684	(1.000)	177426	50.0000	
* 47	Chlorobenzene-d5	117	11.715	11.715	(1.000)	147708	50.0000	
* 70	1,4-Dichlorobenzene-d4	152	15.070	15.070	(1.000)	67246	50.0000	
$ 30	Dibromofluoromethane	113	6.571	6.571	(0.981)	52556	50.0000	49.45
$ 35	1,2-Dichloroethane-d4	65	7.073	7.073	(0.920)	73503	50.0000	52.23
$ 48	Toluene-d8	98	9.668	9.668	(0.825)	195419	50.0000	50.45
$ 69	4-Bromofluorobenzene	95	13.413	13.413	(1.145)	78006	50.0000	50.85
31	1,1,1-Trichloroethane	97	6.482	6.482	(0.968)	3181	2.50000	2.14(a)
68	1,1,2,2-Tetrachloroethane	83	13.709	13.709	(0.910)	2497	2.50000	2.14(aM)
142	Freon TF	101	3.000	3.000	(0.448)	1580	2.50000	4.17(aM)
53	1,1,2-Trichloroethane	83	10.454	10.454	(0.892)	1588	2.50000	2.10(a)
22	1,1-Dichloroethane	63	4.920	4.920	(0.735)	5081	2.50000	2.19(Ta)
11	1,1-Dichloroethene	96	3.026	3.026	(0.452)	1760	2.50000	3.58(a)
90	1,2,4-Trichlorobenzene	180	17.976	17.976	(1.193)	2048	2.50000	2.16(aM)
89	1,2-Dibromo-3-Chloropropane	155	16.832	16.832	(1.117)	103	2.50000	2.09(TaM)
57	1,2-Dibromoethane	107	11.087	11.087	(0.946)	1832	2.50000	2.16(aM)
88	1,2-Dichlorobenzene	146	15.634	15.634	(1.037)	3609	2.50000	2.14(a)
33	1,2-Dichloroethane	62	7.183	7.183	(0.935)	3617	2.50000	2.20(aM)
42	1,2-Dichloropropane	63	8.349	8.349	(1.086)	2516	2.50000	2.08(aM)

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091602.D
Report Date: 23-Sep-2010 14:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
83	1,3-Dichlorobenzene	146	14.954	14.954	(0.992)	3836	2.50000	2.14(a)
84	1,4-Dichlorobenzene	146	15.101	15.101	(1.002)	3967	2.50000	2.17(a)
24	2-Butanone	43	5.928	5.928	(0.885)	4198	5.00000	5.60(M)
52	2-Hexanone	43	10.802	10.802	(0.922)	5601	5.00000	4.76(a)
45	4-Methyl-2-Pentanone	43	9.626	9.626	(0.822)	9629	5.00000	5.23
10	Acetone	43	3.222	3.222	(0.481)	5516	5.00000	3.24(a)
37	Benzene	78	7.015	7.015	(0.913)	9999	2.50000	2.20(a)
39	Bromodichloromethane	83	8.750	8.750	(1.139)	2812	2.50000	2.02(aM)
66	Bromoform	173	12.939	12.939	(1.104)	789	2.50000	3.15(aM)
6	Bromomethane	96	2.051	2.051	(0.306)	3064	2.50000	2.68(a)
19	Carbon Disulfide	76	3.269	3.269	(0.488)	15627	5.00000	4.19(a)
34	Carbon Tetrachloride	119	6.651	6.651	(0.865)	2581	2.50000	2.33(a)
59	Chlorobenzene	112	11.757	11.757	(1.004)	5548	2.50000	2.14(a)
7	Chloroethane	64	2.156	2.156	(0.322)	2150	2.50000	1.80(aM)
28	Chloroform	83	6.329	6.329	(0.945)	3979	2.50000	2.09(a)
3	Chloromethane	50	1.650	1.650	(0.246)	5832	2.50000	2.50(a)
27	cis-1,2-Dichloroethene	96	5.843	5.843	(0.872)	2551	2.50000	2.16(a)
46	cis-1,3-Dichloropropene	75	9.388	9.388	(1.222)	4033	2.50000	2.12(a)
139	Cyclohexane	56	6.434	6.434	(0.961)	4320	2.50000	4.52(a)
55	Dibromochloromethane	129	10.945	10.945	(0.934)	1670	2.50000	1.94(a)
2	Dichlorodifluoromethane	85	1.423	1.423	(0.212)	983	2.50000	3.50(aM)
61	Ethylbenzene	106	11.884	11.884	(1.014)	2798	2.50000	2.09(a)
67	Isopropylbenzene	105	13.139	13.139	(1.122)	8774	2.50000	2.08(a)
143	Methyl Acetate	43	3.660	3.660	(0.546)	3413	2.50000	2.77(aM)
18	Methyl tert-butyl ether	73	4.166	4.166	(0.622)	7753	2.50000	2.19(a)
138	Methylcyclohexane	83	8.107	8.107	(1.210)	2965	2.50000	4.24(a)
64	Styrene	104	12.664	12.664	(1.081)	5649	2.50000	2.01(a)
56	Tetrachloroethene	164	10.470	10.470	(0.894)	1515	2.50000	2.16(a)
50	Toluene	91	9.758	9.758	(0.833)	9447	2.50000	2.25(a)
20	trans-1,2-Dichloroethene	96	4.161	4.161	(0.621)	2336	2.50000	2.10(a)
51	trans-1,3-Dichloropropene	75	10.217	10.217	(1.329)	3484	2.50000	2.04(a)
38	Trichloroethene	130	7.964	7.964	(1.036)	2257	2.50000	2.23(a)
8	Trichlorofluoromethane	101	2.393	2.393	(0.357)	2693	2.50000	4.09(aM)
5	Vinyl Chloride	62	1.702	1.702	(0.254)	3558	2.50000	2.10(M)
62	m,p-Xylenes	106	12.063	12.063	(1.030)	7382	5.00000	4.31(a)
63	o-Xylene	106	12.622	12.622	(1.077)	3481	2.50000	2.11(a)

QC Flag Legend

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


Data File: \\alshsus008\target\chem\voa3.i\G100916.b\G091602.D
Date : 16-SEP-2010 14:49
Client ID: VSTD002.5
Sample Info: VSTD002.5;VSTD002.5;1;1;
Column phase: DB624
Instrument: VOA3.i
Operator: WLR
Column diameter: 0.18
Y (x10^5)
Min
\\alshsus008\target\chem\voa3.i\G100916.b\G091602.D
-Dichlorodifluoromethane
-Chloromethane+
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Diethyl Ether
-1,1-Dichloroethene+
-Acetone+
-Methyl Acetate
-Methylene Chloride+
-Methyl tert-butyl ether+
-Acrylonitrile
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate
-cis-1,2-Dichloroethene+
-2-Butanone
-Propionitrile+
-Chloroform
-Cyclohexane
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,2-Dichloroethane-d4+
-Isobutyl Alcohol+
1,4-Difluorobenzene
-Trichloroethene
-Methylcyclohexane+
-Ethyl Acrylate
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene
4-Methyl-2-Pentanone+
-trans-1,3-Dichloropropene+
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
Chlorobenzene-d5+
-m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene
-1,2,3-Trichloropropane+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091603.D
Report Date: 23-Sep-2010 14:41

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100916.b\G091603.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 16-SEP-2010 15:17 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VSTD005;VSTD005;1;2;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\alshsws008\Target\chem\voa3.i\G100916.b\8260BS.m
Meth Date : 23-Sep-2010 14:41 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 14:49 Cal File: G091602.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
*	1 Pentafluorobenzene	168	6.700	6.700	(1.000)	99087	50.0000	
*	36 1,4-Difluorobenzene	114	7.692	7.692	(1.000)	178423	50.0000	
*	47 Chlorobenzene-d5	117	11.717	11.717	(1.000)	145799	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.072	15.072	(1.000)	66053	50.0000	
$	30 Dibromofluoromethane	113	6.568	6.568	(0.980)	51346	50.0000	47.94
$	35 1,2-Dichloroethane-d4	65	7.075	7.075	(0.920)	70296	50.0000	49.67
$	48 Toluene-d8	98	9.670	9.670	(0.825)	194788	50.0000	50.94
$	69 4-Bromofluorobenzene	95	13.415	13.415	(1.145)	76318	50.0000	50.40
	31 1,1,1-Trichloroethane	97	6.489	6.489	(0.969)	6751	5.00000	4.51(a)
	68 1,1,2,2-Tetrachloroethane	83	13.711	13.711	(0.910)	5705	5.00000	4.98(aM)
	142 Freon TF	101	3.002	3.002	(0.448)	3699	5.00000	5.92
	53 1,1,2-Trichloroethane	83	10.456	10.456	(0.892)	3610	5.00000	4.85(a)
	22 1,1-Dichloroethane	63	4.922	4.922	(0.735)	11297	5.00000	4.84(a)
	11 1,1-Dichloroethene	96	3.034	3.034	(0.453)	3914	5.00000	5.69
	90 1,2,4-Trichlorobenzene	180	17.979	17.979	(1.193)	4070	5.00000	4.38(a)
	89 1,2-Dibromo-3-Chloropropane	155	16.818	16.818	(1.116)	568	5.00000	5.29(aM)
	57 1,2-Dibromoethane	107	11.089	11.089	(0.946)	4130	5.00000	4.94(aM)
	88 1,2-Dichlorobenzene	146	15.636	15.636	(1.037)	8206	5.00000	4.96(a)
	33 1,2-Dichloroethane	62	7.180	7.180	(0.933)	8247	5.00000	4.99(aM)
	42 1,2-Dichloropropane	63	8.351	8.351	(1.086)	5832	5.00000	4.79(aM)

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091603.D
Report Date: 23-Sep-2010 14:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
83	1,3-Dichlorobenzene	146	14.961	14.961	(0.993)	8317	5.00000	4.72(a)
84	1,4-Dichlorobenzene	146	15.104	15.104	(1.002)	8748	5.00000	4.87(a)
24	2-Butanone	43	5.935	5.935	(0.886)	8098	10.0000	10.73
52	2-Hexanone	43	10.810	10.810	(0.923)	12221	10.0000	10.53
45	4-Methyl-2-Pentanone	43	9.628	9.628	(0.822)	19641	10.0000	10.82
10	Acetone	43	3.224	3.224	(0.481)	8494	10.0000	9.82(a)
37	Benzene	78	7.022	7.022	(0.913)	22194	5.00000	4.85(a)
39	Bromodichloromethane	83	8.752	8.752	(1.138)	6473	5.00000	4.63(aM)
66	Bromoform	173	12.941	12.941	(1.104)	2019	5.00000	5.54(Ta)
6	Bromomethane	96	2.053	2.053	(0.306)	6514	5.00000	5.66(a)
19	Carbon Disulfide	76	3.271	3.271	(0.488)	33843	10.0000	9.01(a)
34	Carbon Tetrachloride	119	6.663	6.663	(0.866)	4966	5.00000	4.47(a)
59	Chlorobenzene	112	11.754	11.754	(1.003)	12794	5.00000	5.02
7	Chloroethane	64	2.158	2.158	(0.322)	5776	5.00000	4.80(a)
28	Chloroform	83	6.331	6.331	(0.945)	9248	5.00000	4.84(a)
3	Chloromethane	50	1.631	1.631	(0.243)	11711	5.00000	4.99(a)
27	cis-1,2-Dichloroethene	96	5.835	5.835	(0.871)	5733	5.00000	4.82(a)
46	cis-1,3-Dichloropropene	75	9.391	9.391	(1.221)	9015	5.00000	4.73(a)
139	Cyclohexane	56	6.436	6.436	(0.961)	9244	5.00000	6.19
55	Dibromochloromethane	129	10.936	10.936	(0.933)	3957	5.00000	4.67(a)
2	Dichlorodifluoromethane	85	1.420	1.420	(0.212)	3995	5.00000	6.29(M)
61	Ethylbenzene	106	11.886	11.886	(1.014)	6329	5.00000	4.80(a)
67	Isopropylbenzene	105	13.141	13.141	(1.122)	19425	5.00000	4.66(a)
143	Methyl Acetate	43	3.662	3.662	(0.547)	6579	5.00000	5.30(M)
17	Methylene Chloride	84	3.815	3.815	(0.569)	7830	5.00000	5.58(aM)
18	Methyl tert-butyl ether	73	4.163	4.163	(0.621)	17415	5.00000	4.90(a)
138	Methylcyclohexane	83	8.109	8.109	(1.210)	6185	5.00000	5.81
64	Styrene	104	12.672	12.672	(1.081)	12774	5.00000	4.62(a)
56	Tetrachloroethene	164	10.467	10.467	(0.893)	3264	5.00000	4.73(a)
50	Toluene	91	9.760	9.760	(0.833)	20457	5.00000	4.94(a)
20	trans-1,2-Dichloroethene	96	4.173	4.173	(0.623)	5317	5.00000	4.76(a)
51	trans-1,3-Dichloropropene	75	10.213	10.213	(1.328)	8296	5.00000	4.85(a)
38	Trichloroethene	130	7.966	7.966	(1.036)	4651	5.00000	4.57(a)
8	Trichlorofluoromethane	101	2.396	2.396	(0.358)	5772	5.00000	5.89
5	Vinyl Chloride	62	1.705	1.705	(0.254)	7897	5.00000	4.63
62	m,p-Xylenes	106	12.070	12.070	(1.030)	16141	10.0000	9.54(a)
63	o-Xylene	106	12.624	12.624	(1.077)	7664	5.00000	4.72(a)

QC Flag Legend

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

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091603.D
Date : 16-SEP-2010 15:17
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;2;

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091604.D
Report Date: 23-Sep-2010 14:41

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100916.b\G091604.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 16-SEP-2010 15:45 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VSTD010;VSTD010;1;3;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\alshsws008\Target\chem\voa3.i\G100916.b\8260BS.m
Meth Date : 23-Sep-2010 14:41 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:17 Cal File: G091603.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
*	1 Pentafluorobenzene	168	6.699	6.699	(1.000)	100919	50.0000	
*	36 1,4-Difluorobenzene	114	7.685	7.685	(1.000)	181878	50.0000	
*	47 Chlorobenzene-d5	117	11.715	11.715	(1.000)	150805	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.070	15.070	(1.000)	68944	50.0000	
$	30 Dibromofluoromethane	113	6.572	6.572	(0.981)	53991	50.0000	49.49
$	35 1,2-Dichloroethane-d4	65	7.073	7.073	(0.920)	73136	50.0000	50.70
$	48 Toluene-d8	98	9.669	9.669	(0.825)	198079	50.0000	50.08
$	69 4-Bromofluorobenzene	95	13.414	13.414	(1.145)	78778	50.0000	50.30
	31 1,1,1-Trichloroethane	97	6.482	6.482	(0.968)	12435	10.0000	8.16
	68 1,1,2,2-Tetrachloroethane	83	13.704	13.704	(0.909)	11012	10.0000	9.21(M)
	142 Freon TF	101	3.001	3.001	(0.448)	6636	10.0000	8.26
	53 1,1,2-Trichloroethane	83	10.460	10.460	(0.893)	7234	10.0000	9.41
	22 1,1-Dichloroethane	63	4.921	4.921	(0.735)	21016	10.0000	8.85
	11 1,1-Dichloroethene	96	3.032	3.032	(0.453)	6980	10.0000	8.60
	90 1,2,4-Trichlorobenzene	180	17.977	17.977	(1.193)	8081	10.0000	8.33
	89 1,2-Dibromo-3-Chloropropane	155	16.822	16.822	(1.116)	1149	10.0000	8.94(Ta)
	57 1,2-Dibromoethane	107	11.093	11.093	(0.947)	8253	10.0000	9.54(M)
	88 1,2-Dichlorobenzene	146	15.635	15.635	(1.037)	15687	10.0000	9.09
	33 1,2-Dichloroethane	62	7.189	7.189	(0.935)	15842	10.0000	9.40
	42 1,2-Dichloropropane	63	8.355	8.355	(1.087)	11236	10.0000	9.07(M)

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091604.D
Report Date: 23-Sep-2010 14:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
83	1,3-Dichlorobenzene	146	14.960	14.960	(0.993)	16601	10.0000	9.03
84	1,4-Dichlorobenzene	146	15.107	15.107	(1.002)	17120	10.0000	9.13
24	2-Butanone	43	5.928	5.928	(0.885)	14542	20.0000	18.92
52	2-Hexanone	43	10.803	10.803	(0.922)	22403	20.0000	18.67
45	4-Methyl-2-Pentanone	43	9.632	9.632	(0.822)	36137	20.0000	19.25
10	Acetone	43	3.222	3.222	(0.481)	12652	20.0000	18.63(a)
37	Benzene	78	7.015	7.015	(0.913)	41877	10.0000	8.99
39	Bromodichloromethane	83	8.756	8.756	(1.139)	12699	10.0000	8.92(M)
66	Bromoform	173	12.939	12.939	(1.104)	4277	10.0000	9.63(Ta)
6	Bromomethane	96	2.051	2.051	(0.306)	11785	10.0000	10.07
19	Carbon Disulfide	76	3.275	3.275	(0.489)	61482	20.0000	16.08
34	Carbon Tetrachloride	119	6.656	6.656	(0.866)	8615	10.0000	7.61
59	Chlorobenzene	112	11.752	11.752	(1.003)	24061	10.0000	9.13
7	Chloroethane	64	2.157	2.157	(0.322)	10622	10.0000	8.67
28	Chloroform	83	6.329	6.329	(0.945)	17723	10.0000	9.10
3	Chloromethane	50	1.629	1.629	(0.243)	21165	10.0000	8.86(a)
27	cis-1,2-Dichloroethene	96	5.839	5.839	(0.872)	10654	10.0000	8.80
46	cis-1,3-Dichloropropene	75	9.389	9.389	(1.222)	17925	10.0000	9.23
139	Cyclohexane	56	6.430	6.430	(0.960)	15667	10.0000	8.29
55	Dibromochloromethane	129	10.940	10.940	(0.934)	7820	10.0000	8.93
2	Dichlorodifluoromethane	85	1.418	1.418	(0.212)	6445	10.0000	8.46
61	Ethylbenzene	106	11.884	11.884	(1.014)	11762	10.0000	8.64
67	Isopropylbenzene	105	13.140	13.140	(1.122)	35794	10.0000	8.31
143	Methyl Acetate	43	3.660	3.660	(0.546)	12007	10.0000	9.51
17	Methylene Chloride	84	3.818	3.818	(0.570)	16542	10.0000	11.57(M)
18	Methyl tert-butyl ether	73	4.161	4.161	(0.621)	33974	10.0000	9.38
138	Methylcyclohexane	83	8.102	8.102	(1.209)	10980	10.0000	8.06
64	Styrene	104	12.675	12.675	(1.082)	25617	10.0000	8.96
56	Tetrachloroethene	164	10.470	10.470	(0.894)	5731	10.0000	8.03
50	Toluene	91	9.758	9.758	(0.833)	37666	10.0000	8.80
20	trans-1,2-Dichloroethene	96	4.161	4.161	(0.621)	9583	10.0000	8.42
51	trans-1,3-Dichloropropene	75	10.217	10.217	(1.329)	16246	10.0000	9.31
38	Trichloroethene	130	7.970	7.970	(1.037)	8833	10.0000	8.51
8	Trichlorofluoromethane	101	2.394	2.394	(0.357)	10064	10.0000	8.32
5	Vinyl Chloride	62	1.703	1.703	(0.254)	13525	10.0000	7.79
62	m,p-Xylenes	106	12.069	12.069	(1.030)	30329	20.0000	17.34
63	o-Xylene	106	12.628	12.628	(1.078)	15179	10.0000	9.05

QC Flag Legend

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

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091604.D
Date : 16-SEP-2010 15:45
Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;3;

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091605.D
Report Date: 23-Sep-2010 14:41

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100916.b\G091605.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 16-SEP-2010 16:13 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VSTD020;VSTD020;1;4;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\alshsws008\Target\chem\voa3.i\G100916.b\8260BS.m
Meth Date : 23-Sep-2010 14:41 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:45 Cal File: G091604.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/kg)	ON-COL (ug/kg)
*	1 Pentafluorobenzene	168	6.704	6.704	(1.000)	97595	50.0000	
*	36 1,4-Difluorobenzene	114	7.690	7.690	(1.000)	174301	50.0000	
*	47 Chlorobenzene-d5	117	11.715	11.715	(1.000)	145204	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.070	15.070	(1.000)	65558	50.0000	
$	30 Dibromofluoromethane	113	6.572	6.572	(0.980)	53030	50.0000	50.26
$	35 1,2-Dichloroethane-d4	65	7.078	7.078	(0.920)	69641	50.0000	50.37
$	48 Toluene-d8	98	9.668	9.668	(0.825)	192518	50.0000	50.55
$	69 4-Bromofluorobenzene	95	13.419	13.419	(1.145)	75294	50.0000	49.93
	31 1,1,1-Trichloroethane	97	6.487	6.487	(0.968)	29542	20.0000	20.06
	68 1,1,2,2-Tetrachloroethane	83	13.709	13.709	(0.910)	22828	20.0000	20.08
	142 Freon TF	101	3.006	3.006	(0.448)	18596	20.0000	18.55
	53 1,1,2-Trichloroethane	83	10.460	10.460	(0.893)	15166	20.0000	20.49
	22 1,1-Dichloroethane	63	4.921	4.921	(0.734)	45380	20.0000	19.76
	11 1,1-Dichloroethene	96	3.032	3.032	(0.452)	17508	20.0000	19.38
	90 1,2,4-Trichlorobenzene	180	17.982	17.982	(1.193)	17435	20.0000	18.91
	89 1,2-Dibromo-3-Chloropropane	155	16.827	16.827	(1.117)	2759	20.0000	20.38
	57 1,2-Dibromoethane	107	11.087	11.087	(0.946)	17026	20.0000	20.45(M)
	88 1,2-Dichlorobenzene	146	15.640	15.640	(1.038)	32880	20.0000	20.05
	33 1,2-Dichloroethane	62	7.184	7.184	(0.934)	33082	20.0000	20.49
	42 1,2-Dichloropropane	63	8.355	8.355	(1.086)	23964	20.0000	20.18

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091605.D
Report Date: 23-Sep-2010 14:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
83	1,3-Dichlorobenzene	146	14.954	14.954	(0.992)	35312	20.0000	20.20
84	1,4-Dichlorobenzene	146	15.102	15.102	(1.002)	35725	20.0000	20.05
24	2-Butanone	43	5.934	5.934	(0.885)	30081	40.0000	40.47
52	2-Hexanone	43	10.808	10.808	(0.923)	46243	40.0000	40.04
45	4-Methyl-2-Pentanone	43	9.631	9.631	(0.822)	70602	40.0000	39.07
10	Acetone	43	3.222	3.222	(0.481)	21985	40.0000	40.82
37	Benzene	78	7.020	7.020	(0.913)	90776	20.0000	20.33
39	Bromodichloromethane	83	8.750	8.750	(1.138)	27067	20.0000	19.85
66	Bromoform	173	12.939	12.939	(1.104)	8972	20.0000	18.98(T)
6	Bromomethane	96	2.051	2.051	(0.306)	21634	20.0000	19.11
19	Carbon Disulfide	76	3.275	3.275	(0.489)	146525	40.0000	39.63
34	Carbon Tetrachloride	119	6.661	6.661	(0.866)	21095	20.0000	19.45
59	Chlorobenzene	112	11.757	11.757	(1.004)	50783	20.0000	20.01
7	Chloroethane	64	2.162	2.162	(0.323)	23849	20.0000	20.14
28	Chloroform	83	6.329	6.329	(0.944)	37744	20.0000	20.06
3	Chloromethane	50	1.639	1.639	(0.245)	46152	20.0000	19.98
27	cis-1,2-Dichloroethene	96	5.839	5.839	(0.871)	23755	20.0000	20.29
46	cis-1,3-Dichloropropene	75	9.389	9.389	(1.221)	38014	20.0000	20.43
139	Cyclohexane	56	6.429	6.429	(0.959)	45268	20.0000	18.78
55	Dibromochloromethane	129	10.940	10.940	(0.934)	16636	20.0000	19.73
2	Dichlorodifluoromethane	85	1.418	1.418	(0.212)	17516	20.0000	19.16(M)
61	Ethylbenzene	106	11.889	11.889	(1.015)	26356	20.0000	20.10
67	Isopropylbenzene	105	13.145	13.145	(1.122)	84073	20.0000	20.27
143	Methyl Acetate	43	3.660	3.660	(0.546)	24227	20.0000	19.84
17	Methylene Chloride	84	3.818	3.818	(0.570)	25539	20.0000	18.48
18	Methyl tert-butyl ether	73	4.156	4.156	(0.620)	69912	20.0000	19.97
138	Methylcyclohexane	83	8.102	8.102	(1.209)	31692	20.0000	18.55
64	Styrene	104	12.670	12.670	(1.081)	55551	20.0000	20.18
56	Tetrachloroethene	164	10.470	10.470	(0.894)	13560	20.0000	19.74
50	Toluene	91	9.763	9.763	(0.833)	82908	20.0000	20.12
20	trans-1,2-Dichloroethene	96	4.166	4.166	(0.622)	21993	20.0000	20.00
51	trans-1,3-Dichloropropene	75	10.217	10.217	(1.329)	34176	20.0000	20.45
38	Trichloroethene	130	7.975	7.975	(1.037)	19840	20.0000	19.96
8	Trichlorofluoromethane	101	2.394	2.394	(0.357)	27284	20.0000	18.84
5	Vinyl Chloride	62	1.703	1.703	(0.254)	33640	20.0000	20.03
62	m,p-Xylenes	106	12.069	12.069	(1.030)	68426	40.0000	40.64
63	o-Xylene	106	12.622	12.622	(1.077)	32127	20.0000	19.89

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091605.D
Date : 16-SEP-2010 16:13
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;4;

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091606.D
Report Date: 23-Sep-2010 14:41

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100916.b\G091606.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 16-SEP-2010 16:41 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VSTD050;VSTD050;1;5;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\alshsws008\Target\chem\voa3.i\G100916.b\8260BS.m
Meth Date : 23-Sep-2010 14:41 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 16:13 Cal File: G091605.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
*	1 Pentafluorobenzene	168	6.704	6.704	(1.000)	99023	50.0000	
*	36 1,4-Difluorobenzene	114	7.691	7.691	(1.000)	180782	50.0000	
*	47 Chlorobenzene-d5	117	11.716	11.716	(1.000)	150503	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.071	15.071	(1.000)	67734	50.0000	
$	30 Dibromofluoromethane	113	6.572	6.572	(0.980)	53845	50.0000	50.30
$	35 1,2-Dichloroethane-d4	65	7.074	7.074	(0.920)	71580	50.0000	49.92
$	48 Toluene-d8	98	9.669	9.669	(0.825)	195856	50.0000	49.62
$	69 4-Bromofluorobenzene	95	13.414	13.414	(1.145)	77638	50.0000	49.67
	31 1,1,1-Trichloroethane	97	6.488	6.488	(0.968)	78789	50.0000	52.74
	68 1,1,2,2-Tetrachloroethane	83	13.710	13.710	(0.910)	63390	50.0000	53.98
	142 Freon TF	101	3.001	3.001	(0.448)	55788	50.0000	49.32
	53 1,1,2-Trichloroethane	83	10.455	10.455	(0.892)	39411	50.0000	51.38
	22 1,1-Dichloroethane	63	4.921	4.921	(0.734)	119812	50.0000	51.42
	11 1,1-Dichloroethene	96	3.033	3.033	(0.452)	47988	50.0000	49.06
	90 1,2,4-Trichlorobenzene	180	17.977	17.977	(1.193)	49529	50.0000	52.00
	89 1,2-Dibromo-3-Chloropropane	155	16.827	16.827	(1.117)	7573	50.0000	51.29
	57 1,2-Dibromoethane	107	11.093	11.093	(0.947)	43512	50.0000	50.44
	88 1,2-Dichlorobenzene	146	15.641	15.641	(1.038)	87444	50.0000	51.63
	33 1,2-Dichloroethane	62	7.190	7.190	(0.935)	85077	50.0000	50.82
	42 1,2-Dichloropropane	63	8.355	8.355	(1.086)	62882	50.0000	51.07

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091606.D
Report Date: 23-Sep-2010 14:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
83	1,3-Dichlorobenzene	146	14.955	14.955	(0.992)	92778	50.0000	51.38
84	1,4-Dichlorobenzene	146	15.102	15.102	(1.002)	95045	50.0000	51.64
24	2-Butanone	43	5.929	5.929	(0.884)	78144	100.000	103.62
52	2-Hexanone	43	10.808	10.808	(0.923)	130988	100.000	109.42
45	4-Methyl-2-Pentanone	43	9.632	9.632	(0.822)	195037	100.000	104.14
10	Acetone	43	3.223	3.223	(0.481)	50266	100.000	103.59
37	Benzene	78	7.021	7.021	(0.913)	233468	50.0000	50.43
39	Bromodichloromethane	83	8.751	8.751	(1.138)	72416	50.0000	51.22
66	Bromoform	173	12.940	12.940	(1.104)	26045	50.0000	49.59(T)
6	Bromomethane	96	2.052	2.052	(0.306)	53808	50.0000	46.86
19	Carbon Disulfide	76	3.275	3.275	(0.489)	401890	100.000	107.14
34	Carbon Tetrachloride	119	6.662	6.662	(0.866)	57932	50.0000	51.52
59	Chlorobenzene	112	11.753	11.753	(1.003)	132323	50.0000	50.31
7	Chloroethane	64	2.157	2.157	(0.322)	63883	50.0000	53.18
28	Chloroform	83	6.330	6.330	(0.944)	98208	50.0000	51.44
3	Chloromethane	50	1.630	1.630	(0.243)	118374	50.0000	50.51
27	cis-1,2-Dichloroethene	96	5.839	5.839	(0.871)	61162	50.0000	51.49
46	cis-1,3-Dichloropropene	75	9.389	9.389	(1.221)	97718	50.0000	50.63
139	Cyclohexane	56	6.435	6.435	(0.960)	130459	50.0000	47.99
55	Dibromochloromethane	129	10.940	10.940	(0.934)	45369	50.0000	51.93
2	Dichlorodifluoromethane	85	1.419	1.419	(0.212)	49278	50.0000	48.95(M)
61	Ethylbenzene	106	11.890	11.890	(1.015)	69666	50.0000	51.27
67	Isopropylbenzene	105	13.140	13.140	(1.122)	224882	50.0000	52.32
143	Methyl Acetate	43	3.661	3.661	(0.546)	62767	50.0000	50.68
17	Methylene Chloride	84	3.819	3.819	(0.570)	66073	50.0000	47.12
18	Methyl tert-butyl ether	73	4.156	4.156	(0.620)	181376	50.0000	51.08
138	Methylcyclohexane	83	8.108	8.108	(1.209)	96869	50.0000	50.23
64	Styrene	104	12.671	12.671	(1.081)	148711	50.0000	52.12
56	Tetrachloroethene	164	10.466	10.466	(0.893)	37347	50.0000	52.47
50	Toluene	91	9.764	9.764	(0.833)	216927	50.0000	50.80
20	trans-1,2-Dichloroethene	96	4.167	4.167	(0.622)	58086	50.0000	52.06
51	trans-1,3-Dichloropropene	75	10.218	10.218	(1.329)	88667	50.0000	51.16
38	Trichloroethene	130	7.970	7.970	(1.036)	52653	50.0000	51.07
8	Trichlorofluoromethane	101	2.394	2.394	(0.357)	78895	50.0000	49.14
5	Vinyl Chloride	62	1.703	1.703	(0.254)	92158	50.0000	54.09
62	m,p-Xylenes	106	12.069	12.069	(1.030)	179706	100.000	102.97
63	o-Xylene	106	12.623	12.623	(1.077)	86442	50.0000	51.64

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091606.D
Date : 16-SEP-2010 16:41
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;5;

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091607.D
Report Date: 23-Sep-2010 14:41

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100916.b\G091607.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 16-SEP-2010 17:09 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VSTD100;VSTD100;1;6;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\alshsws008\Target\chem\voa3.i\G100916.b\8260BS.m
Meth Date : 23-Sep-2010 14:41 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 16:41 Cal File: G091606.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

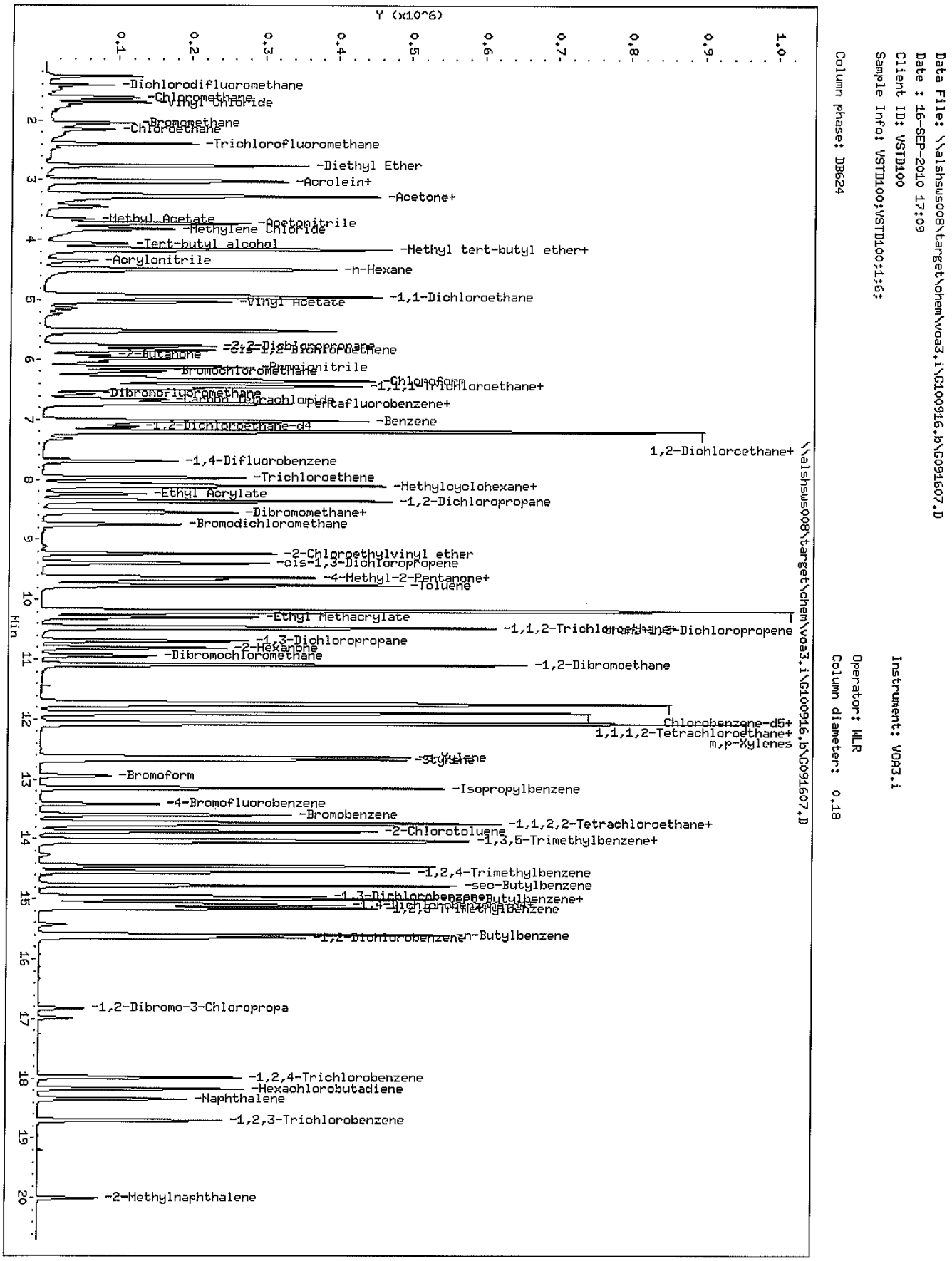
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
*	1 Pentafluorobenzene	168	6.705	6.705	(1.000)	96842	50.0000	
*	36 1,4-Difluorobenzene	114	7.691	7.691	(1.000)	176513	50.0000	
*	47 Chlorobenzene-d5	117	11.716	11.716	(1.000)	147006	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.071	15.071	(1.000)	66117	50.0000	
$	30 Dibromofluoromethane	113	6.573	6.573	(0.980)	53888	50.0000	51.48
$	35 1,2-Dichloroethane-d4	65	7.079	7.079	(0.920)	68525	50.0000	48.94
$	48 Toluene-d8	98	9.669	9.669	(0.825)	192377	50.0000	49.90
$	69 4-Bromofluorobenzene	95	13.420	13.420	(1.145)	75493	50.0000	49.45
	31 1,1,1-Trichloroethane	97	6.488	6.488	(0.968)	166847	100.000	114.21
	68 1,1,2,2-Tetrachloroethane	83	13.710	13.710	(0.910)	119854	100.000	104.57
	142 Freon TF	101	3.001	3.001	(0.448)	118972	100.000	104.32
	53 1,1,2-Trichloroethane	83	10.455	10.455	(0.892)	80075	100.000	106.87
	22 1,1-Dichloroethane	63	4.922	4.922	(0.734)	251017	100.000	110.16
	11 1,1-Dichloroethene	96	3.033	3.033	(0.452)	101865	100.000	103.57
	90 1,2,4-Trichlorobenzene	180	17.978	17.978	(1.193)	105553	100.000	113.54
	89 1,2-Dibromo-3-Chloropropane	155	16.828	16.828	(1.117)	14987	100.000	100.71
	57 1,2-Dibromoethane	107	11.094	11.094	(0.947)	89288	100.000	105.96
	88 1,2-Dichlorobenzene	146	15.641	15.641	(1.038)	178557	100.000	108.00
	33 1,2-Dichloroethane	62	7.185	7.185	(0.934)	172078	100.000	105.27
	42 1,2-Dichloropropane	63	8.356	8.356	(1.086)	132440	100.000	110.16

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091607.D
Report Date: 23-Sep-2010 14:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
83	1,3-Dichlorobenzene	146	14.955	14.955	(0.992)	192657	100.000	109.32
84	1,4-Dichlorobenzene	146	15.103	15.103	(1.002)	192720	100.000	107.27
24	2-Butanone	43	5.929	5.929	(0.884)	136189	200.000	184.65
52	2-Hexanone	43	10.809	10.809	(0.923)	234849	200.000	200.86
45	4-Methyl-2-Pentanone	43	9.627	9.627	(0.822)	357105	200.000	195.22
10	Acetone	43	3.223	3.223	(0.481)	93427	200.000	205.28
37	Benzene	78	7.021	7.021	(0.913)	489888	100.000	108.38
39	Bromodichloromethane	83	8.751	8.751	(1.138)	154733	100.000	112.10
66	Bromoform	173	12.940	12.940	(1.104)	54058	100.000	101.21(T)
6	Bromomethane	96	2.047	2.047	(0.305)	110233	100.000	98.16
19	Carbon Disulfide	76	3.276	3.276	(0.489)	845982	200.000	230.60
34	Carbon Tetrachloride	119	6.662	6.662	(0.866)	125265	100.000	114.09
59	Chlorobenzene	112	11.753	11.753	(1.003)	278792	100.000	108.53
7	Chloroethane	64	2.157	2.157	(0.322)	134631	100.000	114.60
28	Chloroform	83	6.330	6.330	(0.944)	205348	100.000	109.98
3	Chloromethane	50	1.630	1.630	(0.243)	243973	100.000	106.44
27	cis-1,2-Dichloroethene	96	5.839	5.839	(0.871)	125490	100.000	108.04
46	cis-1,3-Dichloropropene	75	9.395	9.395	(1.222)	205050	100.000	108.82
139	Cyclohexane	56	6.436	6.436	(0.960)	281978	100.000	103.37
55	Dibromochloromethane	129	10.941	10.941	(0.934)	94685	100.000	110.96
2	Dichlorodifluoromethane	85	1.419	1.419	(0.212)	102632	100.000	102.86
61	Ethylbenzene	106	11.890	11.890	(1.015)	147944	100.000	111.48
67	Isopropylbenzene	105	13.146	13.146	(1.122)	475427	100.000	113.25
143	Methyl Acetate	43	3.655	3.655	(0.545)	116982	100.000	96.59
17	Methylene Chloride	84	3.819	3.819	(0.570)	129808	100.000	94.65
18	Methyl tert-butyl ether	73	4.157	4.157	(0.620)	374789	100.000	107.93
138	Methylcyclohexane	83	8.108	8.108	(1.209)	199582	100.000	102.46
64	Styrene	104	12.671	12.671	(1.081)	311903	100.000	111.93
56	Tetrachloroethene	164	10.471	10.471	(0.894)	78095	100.000	112.34
50	Toluene	91	9.764	9.764	(0.833)	455478	100.000	109.22
20	trans-1,2-Dichloroethene	96	4.167	4.167	(0.622)	123086	100.000	112.81
51	trans-1,3-Dichloropropene	75	10.218	10.218	(1.329)	182881	100.000	108.08
38	Trichloroethene	130	7.971	7.971	(1.036)	112697	100.000	111.96
8	Trichlorofluoromethane	101	2.395	2.395	(0.357)	166683	100.000	103.46
5	Vinyl Chloride	62	1.704	1.704	(0.254)	191010	100.000	114.65
62	m,p-Xylenes	106	12.069	12.069	(1.030)	377660	200.000	221.56
63	o-Xylene	106	12.629	12.629	(1.078)	181279	100.000	110.88

QC Flag Legend

T - Target compound detected outside RT window.


Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091607.D
Date : 16-SEP-2010 17:09
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;6;
Column phase: DB624
Instrument: VOA3.i
Operator: WLR
Column diameter: 0.18
\\alshsws008\target\chem\voa3.i\G100916.b\G091607.D
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Diethyl Ether
-Acrolein+
-Acetone+
-Methyl Acetate
-Acetonitrile
-Methylene Chloride
-Tert-butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate
-2,2-Dichloropropane
-2-Butanone
-cis-1,2-Dichloroethene
-Bromochloromethane
-Propionitrile
-Chloroform
-1,1,1-Trichloroethane+
-Dibromofluoromethane
-Carbon Tetrachloride
-Pentafluorobenzene+
-1,2-Dichloroethane-d4
-Benzene
1,2-Dichloroethane+
-1,4-Difluorobenzene
-Trichloroethene
-Methylcyclohexane+
-Ethyl Acrylate
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone+
-Toluene
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-trans-1,3-Dichloropropene
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-Styrene
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
-p-Isopropyltoluene+
-1,4-Dichlorobenzene
-1,2,3-Trimethylbenzene
-1,2-Dichlorobenzene
-n-Butylbenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091608.D
Report Date: 23-Sep-2010 14:41

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100916.b\G091608.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 16-SEP-2010 17:37 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VSTD150;VSTD150;1;7;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\alshsws008\Target\chem\voa3.i\G100916.b\8260BS.m
Meth Date : 23-Sep-2010 14:41 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 17:09 Cal File: G091607.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

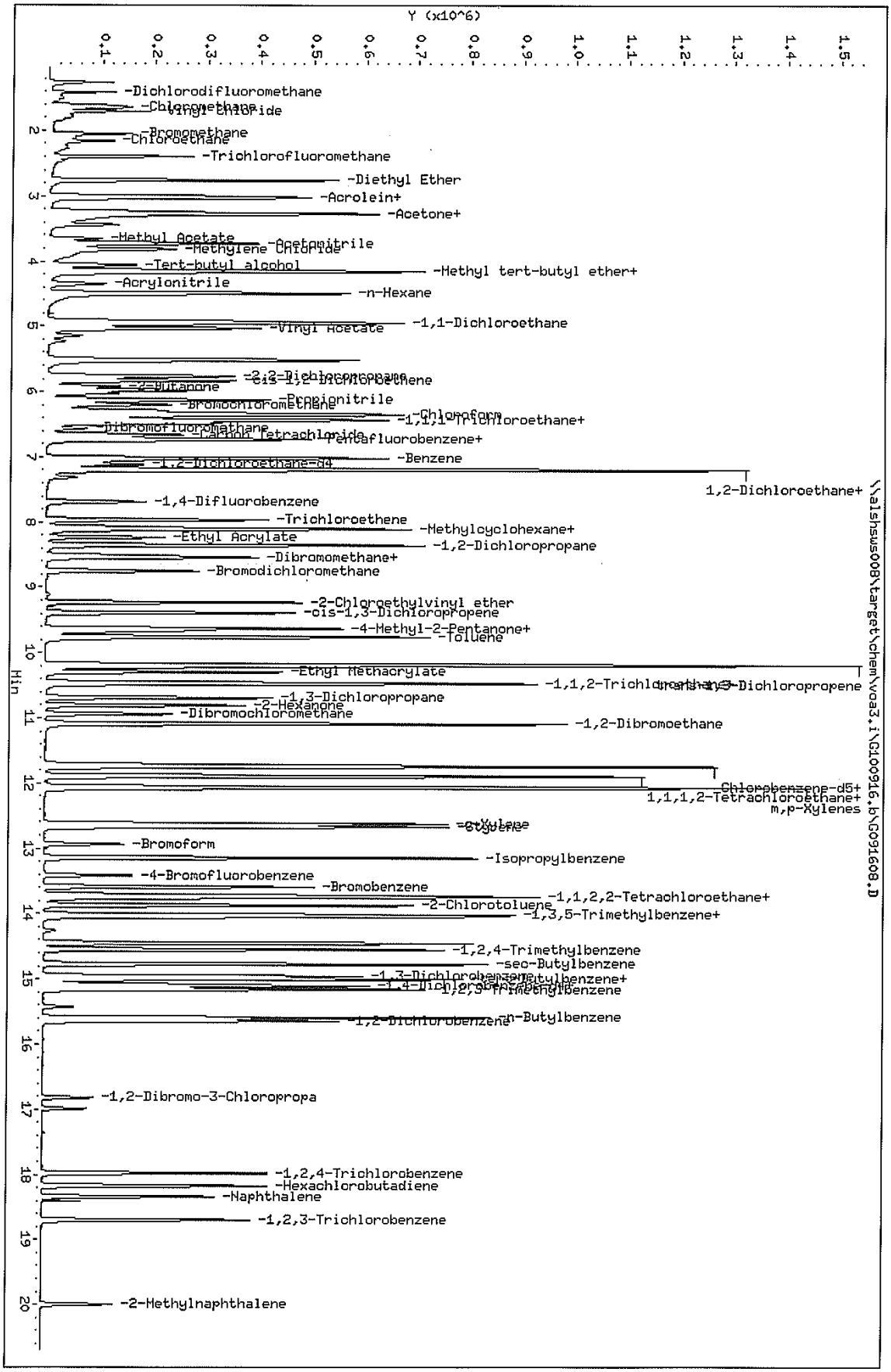
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
*	1 Pentafluorobenzene	168	6.704	6.704	(1.000)	101704	50.0000	
*	36 1,4-Difluorobenzene	114	7.690	7.690	(1.000)	182137	50.0000	
*	47 Chlorobenzene-d5	117	11.715	11.715	(1.000)	153435	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.070	15.070	(1.000)	69009	50.0000	
$	30 Dibromofluoromethane	113	6.572	6.572	(0.980)	55302	50.0000	50.30
$	35 1,2-Dichloroethane-d4	65	7.073	7.073	(0.920)	71164	50.0000	49.26
$	48 Toluene-d8	98	9.674	9.674	(0.826)	199185	50.0000	49.50
$	69 4-Bromofluorobenzene	95	13.414	13.414	(1.145)	79516	50.0000	49.90
	31 1,1,1-Trichloroethane	97	6.487	6.487	(0.968)	250967	150.000	163.59
	68 1,1,2,2-Tetrachloroethane	83	13.709	13.709	(0.910)	184319	150.000	154.08
	142 Freon TF	101	3.000	3.000	(0.448)	175900	150.000	145.85
	53 1,1,2-Trichloroethane	83	10.460	10.460	(0.893)	122544	150.000	156.70
	22 1,1-Dichloroethane	63	4.921	4.921	(0.734)	381183	150.000	159.30
	11 1,1-Dichloroethene	96	3.032	3.032	(0.452)	153313	150.000	146.72
	90 1,2,4-Trichlorobenzene	180	17.977	17.977	(1.193)	165363	150.000	170.42
	89 1,2-Dibromo-3-Chloropropane	155	16.827	16.827	(1.117)	23516	150.000	147.96
	57 1,2-Dibromoethane	107	11.093	11.093	(0.947)	136545	150.000	155.26
	88 1,2-Dichlorobenzene	146	15.640	15.640	(1.038)	270721	150.000	156.89
	33 1,2-Dichloroethane	62	7.189	7.189	(0.935)	261624	150.000	155.11
	42 1,2-Dichloropropane	63	8.355	8.355	(1.086)	201153	150.000	162.15

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091608.D
Report Date: 23-Sep-2010 14:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
83	1,3-Dichlorobenzene	146	14.959	14.959	(0.993)	293880	150.000	159.77
84	1,4-Dichlorobenzene	146	15.107	15.107	(1.002)	296116	150.000	157.92
24	2-Butanone	43	5.928	5.928	(0.884)	208195	300.000	268.79
52	2-Hexanone	43	10.808	10.808	(0.923)	352518	300.000	288.87
45	4-Methyl-2-Pentanone	43	9.626	9.626	(0.822)	539648	300.000	282.65
10	Acetone	43	3.222	3.222	(0.481)	136842	300.000	290.06
37	Benzene	78	7.020	7.020	(0.913)	740623	150.000	158.79
39	Bromodichloromethane	83	8.750	8.750	(1.138)	234827	150.000	164.87
66	Bromoform	173	12.944	12.944	(1.105)	85551	150.000	149.20(T)
6	Bromomethane	96	2.051	2.051	(0.306)	164088	150.000	139.14
19	Carbon Disulfide	76	3.275	3.275	(0.489)	1275373	300.000	331.03
34	Carbon Tetrachloride	119	6.661	6.661	(0.866)	190680	150.000	168.31
59	Chlorobenzene	112	11.752	11.752	(1.003)	422102	150.000	157.44
7	Chloroethane	64	2.162	2.162	(0.323)	202223	150.000	163.90
28	Chloroform	83	6.329	6.329	(0.944)	311078	150.000	158.65
3	Chloromethane	50	1.645	1.645	(0.245)	364694	150.000	151.51
27	cis-1,2-Dichloroethene	96	5.839	5.839	(0.871)	195884	150.000	160.58
46	cis-1,3-Dichloropropene	75	9.389	9.389	(1.221)	310983	150.000	159.94
139	Cyclohexane	56	6.435	6.435	(0.960)	424656	150.000	148.01
55	Dibromochloromethane	129	10.945	10.945	(0.934)	147996	150.000	166.17
2	Dichlorodifluoromethane	85	1.418	1.418	(0.212)	154099	150.000	147.70(M)
61	Ethylbenzene	106	11.889	11.889	(1.015)	224499	150.000	162.09
67	Isopropylbenzene	105	13.145	13.145	(1.122)	720002	150.000	164.33
143	Methyl Acetate	43	3.655	3.655	(0.545)	178093	150.000	140.01
17	Methylene Chloride	84	3.818	3.818	(0.570)	193556	150.000	134.39
18	Methyl tert-butyl ether	73	4.156	4.156	(0.620)	564180	150.000	154.71
138	Methylcyclohexane	83	8.107	8.107	(1.209)	304706	150.000	147.32
64	Styrene	104	12.670	12.670	(1.081)	474247	150.000	163.06
56	Tetrachloroethene	164	10.470	10.470	(0.894)	119254	150.000	164.35
50	Toluene	91	9.763	9.763	(0.833)	683787	150.000	157.09
20	trans-1,2-Dichloroethene	96	4.166	4.166	(0.622)	185297	150.000	161.71
51	trans-1,3-Dichloropropene	75	10.217	10.217	(1.329)	278871	150.000	159.72
38	Trichloroethene	130	7.970	7.970	(1.036)	170011	150.000	163.69
8	Trichlorofluoromethane	101	2.394	2.394	(0.357)	250081	150.000	146.94
5	Vinyl Chloride	62	1.703	1.703	(0.254)	286891	150.000	163.97
62	m,p-Xylenes	106	12.069	12.069	(1.030)	570338	300.000	320.58
63	o-Xylene	106	12.628	12.628	(1.078)	274259	150.000	160.72

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.


Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091608.D
Date : 16-SEP-2010 17:37
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;7;
Column phase: DB624
Instrument: VOA3.i
Operator: WLR
Column diameter: 0.18
\\alshsws008\target\chem\voa3.i\G100916.b\G091608.D
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Diethyl Ether
-Acrolein+
-Acetone+
-Methyl Acetate
-Acetonitrile
-Methylene Chloride
-Tert-butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate
-2,2-Dichloropropane
-cis-1,2-Dichloroethene
-2-Butanone
-Bromochloromethane
-Propionitrile
-Chloroform
-1,1,1-Trichloroethane+
-Dibromofluoromethane
-Carbon Tetrachloride
-Pentafluorobenzene+
-Benzene
-1,2-Dichloroethane-d4
1,2-Dichloroethane+
-1,4-Difluorobenzene
-Trichloroethene
-Methylcyclohexane+
-Ethyl Acrylate
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone+
-Toluene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
trans-1,3-Dichloropropene
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m,p-Xylenes
o-Xylene
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
-4-Isopropyltoluene+
-1,4-Dichlorobenzene
1,2,3-Trimethylbenzene
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091609.D
Report Date: 23-Sep-2010 14:41

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100916.b\G091609.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 16-SEP-2010 18:05 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VSTD200;VSTD200;1;8;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\alshsws008\Target\chem\voa3.i\G100916.b\8260BS.m
Meth Date : 23-Sep-2010 14:41 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 17:37 Cal File: G091608.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
*	1 Pentafluorobenzene	168	6.702	6.702	(1.000)	97458	50.0000	
*	36 1,4-Difluorobenzene	114	7.694	7.694	(1.000)	176634	50.0000	
*	47 Chlorobenzene-d5	117	11.713	11.713	(1.000)	148483	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.069	15.069	(1.000)	66219	50.0000	
$	30 Dibromofluoromethane	113	6.570	6.570	(0.980)	53463	50.0000	50.75
$	35 1,2-Dichloroethane-d4	65	7.077	7.077	(0.920)	68480	50.0000	48.88
$	48 Toluene-d8	98	9.672	9.672	(0.826)	190524	50.0000	48.92
$	69 4-Bromofluorobenzene	95	13.417	13.417	(1.145)	76266	50.0000	49.46
	31 1,1,1-Trichloroethane	97	6.486	6.486	(0.968)	332446	200.000	226.14(A)
	68 1,1,2,2-Tetrachloroethane	83	13.713	13.713	(0.910)	245191	200.000	213.60(A)
	142 Freon TF	101	2.999	2.999	(0.447)	233320	200.000	201.07
	53 1,1,2-Trichloroethane	83	10.458	10.458	(0.893)	163088	200.000	215.51(A)
	22 1,1-Dichloroethane	63	4.919	4.919	(0.734)	498367	200.000	217.34(A)
	11 1,1-Dichloroethene	96	3.030	3.030	(0.452)	203427	200.000	200.85(A)
	90 1,2,4-Trichlorobenzene	180	17.980	17.980	(1.193)	217107	200.000	233.18(A)
	89 1,2-Dibromo-3-Chloropropane	155	16.825	16.825	(1.117)	31386	200.000	200.81(A)
	57 1,2-Dibromoethane	107	11.091	11.091	(0.947)	181252	200.000	212.96(A)
	88 1,2-Dichlorobenzene	146	15.638	15.638	(1.038)	356406	200.000	215.25(A)
	33 1,2-Dichloroethane	62	7.187	7.187	(0.934)	344259	200.000	210.47(A)
	42 1,2-Dichloropropane	63	8.353	8.353	(1.086)	261465	200.000	217.34(A)

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091609.D
Report Date: 23-Sep-2010 14:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
83	1,3-Dichlorobenzene	146	14.958	14.958	(0.993)	387982	200.000	219.82(A)
84	1,4-Dichlorobenzene	146	15.105	15.105	(1.002)	389113	200.000	216.27(A)
24	2-Butanone	43	5.927	5.927	(0.884)	294570	400.000	396.88
52	2-Hexanone	43	10.806	10.806	(0.923)	470535	400.000	398.43
45	4-Methyl-2-Pentanone	43	9.630	9.630	(0.822)	716889	400.000	388.01
10	Acetone	43	3.226	3.226	(0.481)	180740	400.000	403.52(A)
37	Benzene	78	7.019	7.019	(0.912)	977738	200.000	216.17(A)
39	Bromodichloromethane	83	8.754	8.754	(1.138)	312438	200.000	226.19(A)
66	Bromoform	173	12.943	12.943	(1.105)	114362	200.000	200.16(TA)
6	Bromomethane	96	2.044	2.044	(0.305)	221787	200.000	196.26
19	Carbon Disulfide	76	3.273	3.273	(0.488)	1678015	400.000	454.52(A)
34	Carbon Tetrachloride	119	6.660	6.660	(0.866)	250815	200.000	228.29(A)
59	Chlorobenzene	112	11.756	11.756	(1.004)	560649	200.000	216.09(A)
7	Chloroethane	64	2.160	2.160	(0.322)	269735	200.000	228.15(A)
28	Chloroform	83	6.333	6.333	(0.945)	410185	200.000	218.31(A)
3	Chloromethane	50	1.627	1.627	(0.243)	474524	200.000	205.73(A)
27	cis-1,2-Dichloroethene	96	5.837	5.837	(0.871)	255708	200.000	218.76(A)
46	cis-1,3-Dichloropropene	75	9.392	9.392	(1.221)	410894	200.000	217.91(A)
139	Cyclohexane	56	6.433	6.433	(0.960)	548936	200.000	200.30(A)
55	Dibromochloromethane	129	10.943	10.943	(0.934)	198111	200.000	229.86(A)
2	Dichlorodifluoromethane	85	1.416	1.416	(0.211)	198672	200.000	200.56(A)
61	Ethylbenzene	106	11.888	11.888	(1.015)	297082	200.000	221.65(A)
67	Isopropylbenzene	105	13.143	13.143	(1.122)	945466	200.000	222.99(A)
143	Methyl Acetate	43	3.653	3.653	(0.545)	236699	200.000	194.20
17	Methylene Chloride	84	3.816	3.816	(0.569)	254356	200.000	184.31
18	Methyl tert-butyl ether	73	4.154	4.154	(0.620)	747629	200.000	213.94(A)
138	Methylcyclohexane	83	8.105	8.105	(1.209)	401237	200.000	200.79(A)
64	Styrene	104	12.674	12.674	(1.082)	627119	200.000	222.82(A)
56	Tetrachloroethene	164	10.469	10.469	(0.894)	158109	200.000	225.17(A)
50	Toluene	91	9.762	9.762	(0.833)	898280	200.000	213.26(A)
20	trans-1,2-Dichloroethene	96	4.165	4.165	(0.621)	244474	200.000	222.65(A)
51	trans-1,3-Dichloropropene	75	10.221	10.221	(1.328)	368062	200.000	217.38(A)
38	Trichloroethene	130	7.968	7.968	(1.036)	223855	200.000	222.24(A)
8	Trichlorofluoromethane	101	2.392	2.392	(0.357)	328384	200.000	200.78(A)
5	Vinyl Chloride	62	1.701	1.701	(0.254)	378725	200.000	225.89(A)
62	m,p-Xylenes	106	12.067	12.067	(1.030)	753124	400.000	437.44(A)
63	o-Xylene	106	12.626	12.626	(1.078)	361323	200.000	218.80(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091609.D
Date : 16-SEP-2010 18:05
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;8;

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091610.D
Report Date: 23-Sep-2010 14:41

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100916.b\G091610.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 16-SEP-2010 19:00 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VSTD050;VSTD050;2;;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\alshsws008\Target\chem\voa3.i\G100916.b\8260BS.m
Meth Date : 23-Sep-2010 14:41 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
*	1 Pentafluorobenzene	168	6.703	6.703	(1.000)	99272	50.0000	
*	36 1,4-Difluorobenzene	114	7.689	7.689	(1.000)	179799	50.0000	
*	47 Chlorobenzene-d5	117	11.714	11.714	(1.000)	150338	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.069	15.069	(1.000)	67124	50.0000	
$	30 Dibromofluoromethane	113	6.571	6.571	(0.980)	54680	50.0000	50.95
$	35 1,2-Dichloroethane-d4	65	7.077	7.077	(0.920)	71029	50.0000	49.80
$	48 Toluene-d8	98	9.667	9.667	(0.825)	196461	50.0000	49.83
$	69 4-Bromofluorobenzene	95	13.418	13.418	(1.145)	77208	50.0000	49.45
	31 1,1,1-Trichloroethane	97	6.486	6.486	(0.968)	74456	50.0000	49.72
	68 1,1,2,2-Tetrachloroethane	83	13.708	13.708	(0.910)	52095	50.0000	44.77
	142 Freon TF	101	3.005	3.005	(0.448)	52603	50.0000	46.55
	53 1,1,2-Trichloroethane	83	10.459	10.459	(0.893)	35224	50.0000	45.97
	22 1,1-Dichloroethane	63	4.925	4.925	(0.735)	112336	50.0000	48.09
	11 1,1-Dichloroethene	96	3.031	3.031	(0.452)	45997	50.0000	47.00
	90 1,2,4-Trichlorobenzene	180	17.981	17.981	(1.193)	44502	50.0000	47.15
	89 1,2-Dibromo-3-Chloropropane	155	16.821	16.821	(1.116)	6270	50.0000	43.20
	57 1,2-Dibromoethane	107	11.092	11.092	(0.947)	39371	50.0000	45.68
	88 1,2-Dichlorobenzene	146	15.639	15.639	(1.038)	78109	50.0000	46.53
	33 1,2-Dichloroethane	62	7.188	7.188	(0.935)	77400	50.0000	46.48
	42 1,2-Dichloropropane	63	8.354	8.354	(1.086)	58501	50.0000	47.77

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091610.D
Report Date: 23-Sep-2010 14:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
83	1,3-Dichlorobenzene	146	14.958	14.958	(0.993)	84144	50.0000	47.03
84	1,4-Dichlorobenzene	146	15.106	15.106	(1.002)	85104	50.0000	46.66
24	2-Butanone	43	5.927	5.927	(0.884)	67873	100.000	89.77
52	2-Hexanone	43	10.807	10.807	(0.923)	100501	100.000	84.05
45	4-Methyl-2-Pentanone	43	9.630	9.630	(0.822)	154450	100.000	82.56
10	Acetone	43	3.226	3.226	(0.481)	42260	100.000	85.38
37	Benzene	78	7.019	7.019	(0.913)	219278	50.0000	47.62
39	Bromodichloromethane	83	8.749	8.749	(1.138)	66906	50.0000	47.58
66	Bromoform	173	12.943	12.943	(1.105)	22487	50.0000	43.20(T)
6	Bromomethane	96	2.050	2.050	(0.306)	46802	50.0000	40.66
19	Carbon Disulfide	76	3.274	3.274	(0.488)	377984	100.000	100.51
34	Carbon Tetrachloride	119	6.660	6.660	(0.866)	54460	50.0000	48.69
59	Chlorobenzene	112	11.751	11.751	(1.003)	122835	50.0000	46.76
7	Chloroethane	64	2.161	2.161	(0.322)	60782	50.0000	50.47
28	Chloroform	83	6.328	6.328	(0.944)	91819	50.0000	47.97
3	Chloromethane	50	1.644	1.644	(0.245)	110637	50.0000	47.09
27	cis-1,2-Dichloroethene	96	5.838	5.838	(0.871)	57280	50.0000	48.10
46	cis-1,3-Dichloropropene	75	9.388	9.388	(1.221)	90199	50.0000	46.99
139	Cyclohexane	56	6.434	6.434	(0.960)	126707	50.0000	46.58
55	Dibromochloromethane	129	10.939	10.939	(0.934)	41884	50.0000	47.99
2	Dichlorodifluoromethane	85	1.417	1.417	(0.211)	46240	50.0000	45.94(M)
61	Ethylbenzene	106	11.888	11.888	(1.015)	65476	50.0000	48.24
67	Isopropylbenzene	105	13.144	13.144	(1.122)	208401	50.0000	48.54
143	Methyl Acetate	43	3.659	3.659	(0.546)	51712	50.0000	41.65
17	Methylene Chloride	84	3.822	3.822	(0.570)	62024	50.0000	44.12
18	Methyl tert-butyl ether	73	4.155	4.155	(0.620)	164063	50.0000	46.09
138	Methylcyclohexane	83	8.106	8.106	(1.209)	89527	50.0000	46.53
64	Styrene	104	12.669	12.669	(1.082)	136586	50.0000	47.93
56	Tetrachloroethene	164	10.469	10.469	(0.894)	34352	50.0000	48.32
50	Toluene	91	9.762	9.762	(0.833)	201438	50.0000	47.23
20	trans-1,2-Dichloroethene	96	4.171	4.171	(0.622)	55360	50.0000	49.49
51	trans-1,3-Dichloropropene	75	10.216	10.216	(1.329)	80929	50.0000	46.95
38	Trichloroethene	130	7.969	7.969	(1.036)	49232	50.0000	48.01
8	Trichlorofluoromethane	101	2.393	2.393	(0.357)	73954	50.0000	46.11
5	Vinyl Chloride	62	1.702	1.702	(0.254)	86001	50.0000	50.35
62	m,p-Xylenes	106	12.068	12.068	(1.030)	165145	100.000	94.73
63	o-Xylene	106	12.627	12.627	(1.078)	78781	50.0000	47.11

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\voa3.i\G100916.b\G091610.D
Date : 16-SEP-2010 19:00
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624

ALS Laboratory Group **MS VOA 2 - Instrument Run Log** **Logbook #23118**

Sequence #: E091710	IS ID: 23210-18-2	Method ID: 8260 / 624	SOP ID: MSV-001 / MSV-002
Cal STD ID: 23210-17-1/18-1	ICV StD ID N/A	LCS/MS ID: 23210-17-1/18-1	Surr. ID: 23210-18-3

File ID	WO #	SX #	pH	Soil/ Water	Sample-Vol Wt (mL or g)	Purge Vol.-mL	Dil. Fac.	Inj. Date	Inj. Time	Status	Comments
E091701	BFB	50 ng	—	—	—	—	—	9/17/10	17:11	✓	
02	VSTD050	50 ng	—	Water	50	5	10		17:49	✓	
03	VSW	VSW-91710	—						18:13	✓	
04	VSDW	VSDW-91710	—						18:37	✓	
05	PAC	PAC	—						19:24	NU	
06	VMW	VMW-91710	—						19:48	✓	
07	1009537	02A	2						20:11	✓	
08		04A							20:35	✓	
09		05A							21:00	✓	
10		07A							21:24	✓	
11		09A							21:48	✓	
12		11A							22:12	✓	
13		13A							22:36	✓	
14		14A							23:00	✓	
15		16A							23:24	✓	
16		17A							23:48	✓	
17		18A						9/18/10	00:11	X	
18	1009543	04A							00:35	✓	
19		05A							00:59	X	
20		07A							01:23	✓	
21		08A							01:47	X	
22		10A							02:11	✓	
23		11A							02:34	X	
24		13A							02:58	X	
25		14A							03:22	X	

Pentafluorobenzene:	255298	Chlorobenzene-d_5:	302023	BFB Ion 95 Response:	42240
1,4-Difluorobenzene:	325381	1,4-Dichlorobenzene-d_4:	187652	Analyst:	TC

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FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date: 09/17/10 Time: 1749

Lab File ID: E091702 Init. Calib. Date(s): 09/17/10 09/17/10

Heated Purge: (Y/N) N Init. Calib. Times: 1316 1601

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Dichlorodifluoromethane	42.27	50.00	LINR	15.5	20.0
Chloromethane	47.90	50.00	LINR	4.2	20.0
Vinyl Chloride	48.44	50.00	AVRG	3.1	20.0
Bromomethane	47.19	50.00	AVRG	5.6	20.0
Chloroethane	47.43	50.00	AVRG	5.1	20.0
Trichlorofluoromethane	45.77	50.00	AVRG	8.5	20.0
Acetone	98.52	100.00	LINR	1.5	20.0
1,1-Dichloroethene	49.55	50.00	AVRG	0.9	20.0
Methylene Chloride	47.77	50.00	AVRG	4.5	20.0
Carbon Disulfide	102.13	100.00	AVRG	2.1	20.0
trans-1,2-Dichloroethene	49.96	50.00	AVRG	0.1	20.0
1,1-Dichloroethane	47.70	50.00	AVRG	4.6	20.0
2-Butanone	93.10	100.00	AVRG	6.9	20.0
cis-1,2-Dichloroethene	50.78	50.00	AVRG	1.6	20.0
Chloroform	46.34	50.00	AVRG	7.3	20.0
1,1,1-Trichloroethane	47.27	50.00	AVRG	5.5	20.0
1,2-Dichloroethane	44.12	50.00	AVRG	11.8	20.0
Carbon Tetrachloride	41.92	50.00	LINR	16.2	20.0
Benzene	48.31	50.00	AVRG	3.4	20.0
Trichloroethene	49.44	50.00	AVRG	1.1	20.0
Bromodichloromethane	48.89	50.00	AVRG	2.2	20.0
1,2-Dichloropropane	48.90	50.00	AVRG	2.2	20.0
4-Methyl-2-Pentanone	100.58	100.00	AVRG	0.6	20.0
cis-1,3-Dichloropropene	47.83	50.00	LINR	4.3	20.0
Toluene	49.35	50.00	AVRG	1.3	20.0
trans-1,3-Dichloropropene	47.31	50.00	LINR	5.4	20.0
2-Hexanone	100.57	100.00	AVRG	0.6	20.0
1,1,2-Trichloroethane	48.21	50.00	AVRG	3.6	20.0
Dibromochloromethane	51.25	50.00	AVRG	2.5	20.0
Tetrachloroethene	49.64	50.00	AVRG	0.7	20.0
1,2-Dibromoethane	48.69	50.00	AVRG	2.6	20.0
Chlorobenzene	49.00	50.00	AVRG	2.0	20.0
Ethylbenzene	51.16	50.00	AVRG	2.3	20.0
m,p-Xylenes	102.92	100.00	AVRG	2.9	20.0
o-Xylene	50.02	50.00	AVRG	0.0	20.0
Styrene	50.56	50.00	AVRG	1.1	20.0
Bromoform	46.36	50.00	2ORDR	7.3	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date: 09/17/10 Time: 1749

Lab File ID: E091702 Init. Calib. Date(s): 09/17/10 09/17/10

Heated Purge: (Y/N) N Init. Calib. Times: 1316 1601

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Isopropylbenzene	46.45	50.00	LINR	7.1	20.0
1,1,2,2-Tetrachloroethane	50.01	50.00	AVRG	0.0	20.0
1,3-Dichlorobenzene	50.46	50.00	AVRG	0.9	20.0
1,4-Dichlorobenzene	49.55	50.00	AVRG	0.9	20.0
1,2-Dichlorobenzene	50.08	50.00	AVRG	0.2	20.0
1,2-Dibromo-3-Chloropropane	48.42	50.00	2ORDR	3.2	20.0
1,2,4-Trichlorobenzene	51.40	50.00	AVRG	2.8	20.0
Methyl tert-butyl ether	50.48	50.00	AVRG	1.0	20.0
Methylcyclohexane	45.05	50.00	2ORDR	9.9	20.0
Cyclohexane	44.90	50.00	LINR	10.2	20.0
Freon TF	44.28	50.00	LINR	11.4	20.0
Methyl Acetate	47.34	50.00	AVRG	5.3	20.0
Dibromofluoromethane	47.85	50.00	AVRG	4.3	20.0
1,2-Dichloroethane-d4	44.58	50.00	AVRG	10.8	20.0
Toluene-d8	48.99	50.00	AVRG	2.0	20.0
4-Bromofluorobenzene	47.98	50.00	AVRG	4.0	20.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): E091702 Date Analyzed: 09/17/10

Instrument ID: VOA2 Time Analyzed: 1749

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	255298	6.38	325381	7.17	302023	10.13
	UPPER LIMIT	510596	6.88	650762	7.67	604046	10.63
	LOWER LIMIT	127649	5.88	162691	6.67	151012	9.63
	CLIENT SAMPLE NO.						
01	VLCSW-091710	249645	6.38	315067	7.18	295197	10.14
02	VLCSDW-09171	248566	6.38	308270	7.17	287647	10.14
03	VBLKW-091710	214068	6.38	272800	7.17	248212	10.13
04	1009543-04A	149201	6.38	194650	7.17	182080	10.14
05	1009543-07A	147126	6.38	190719	7.18	179687	10.14
06	1009543-10A	153749	6.38	198122	7.18	187658	10.14
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): E091702 Date Analyzed: 09/17/10

Instrument ID: VOA2 Time Analyzed: 1749

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	187652	12.45				
	UPPER LIMIT	375304	12.95				
	LOWER LIMIT	93826	11.95				
	CLIENT SAMPLE NO.						
01	VLCSW-091710	181967	12.46				
02	VLCSDW-09171	179359	12.46				
03	VBLKW-091710	147015	12.45				
04	1009543-04A	106874	12.46				
05	1009543-07A	105426	12.46				
06	1009543-10A	109203	12.46				
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (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.

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091701.D

Date : 17-SEP-2010 17:11

Client ID: BFB

Instrument: VOA2.i

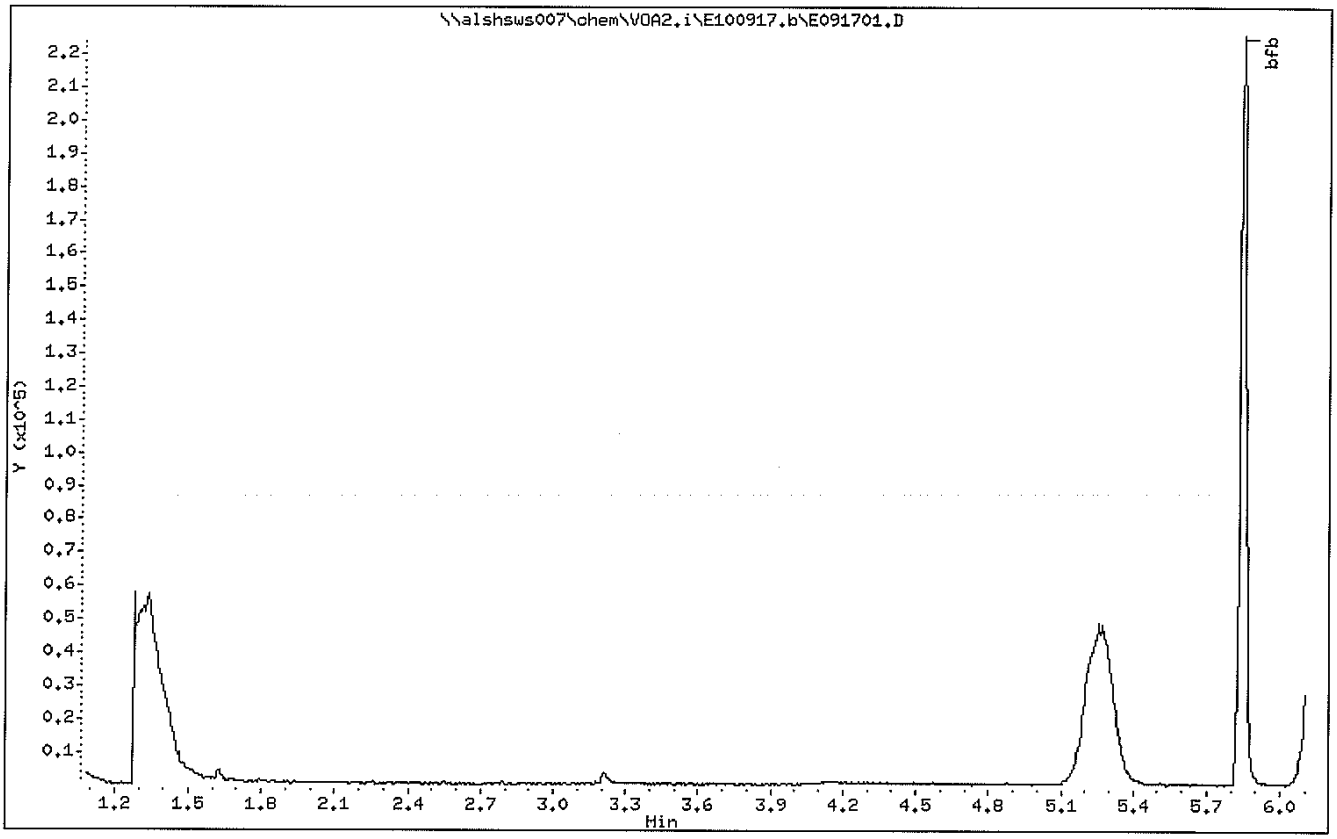
Sample Info: BFB;BFB;3;;

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091701.D

Date : 17-SEP-2010 17:11

Client ID: BFB

Instrument: VOA2.i

Sample Info: BFB;BFB;3;;

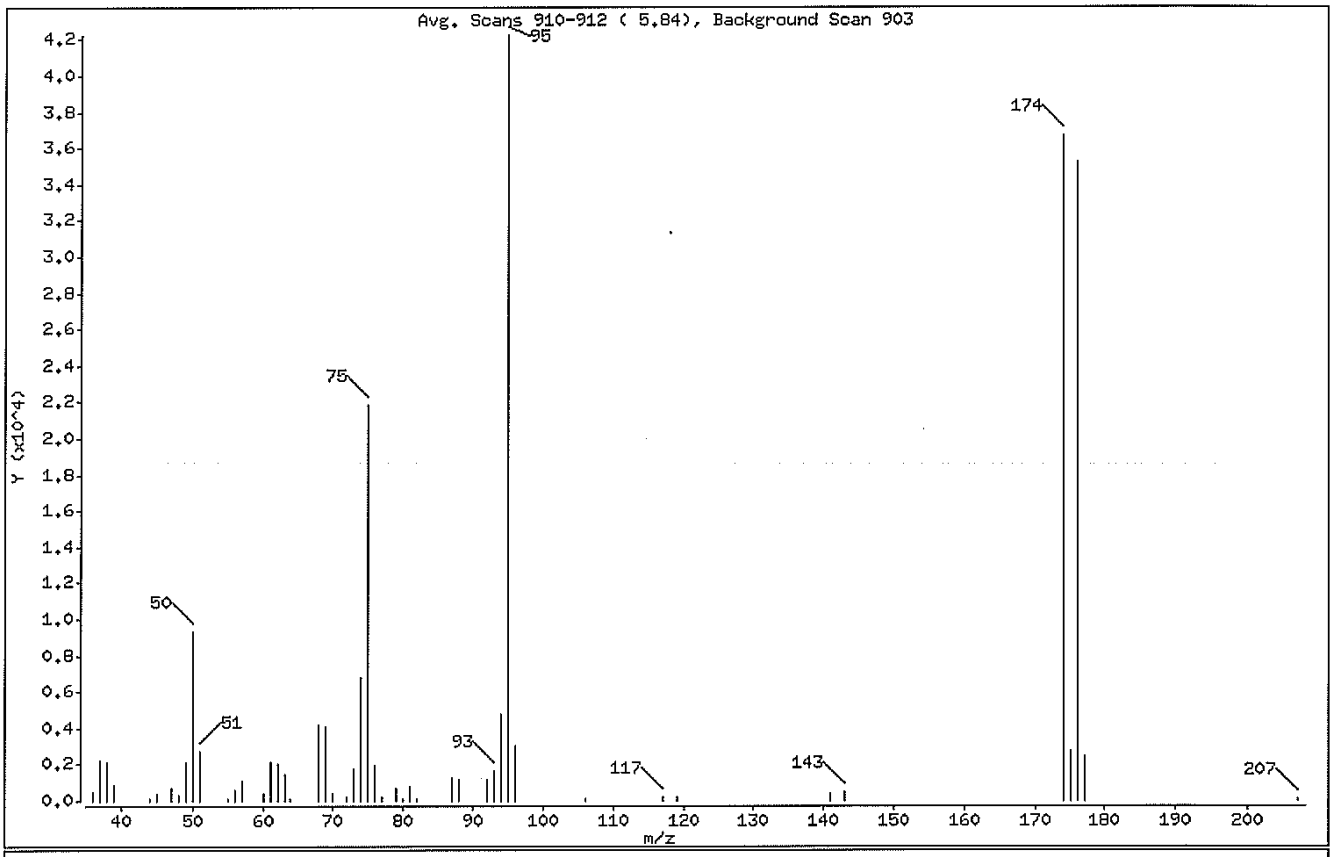
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.02
75	30.00 - 60.00% of mass 95	51.63
96	5.00 - 9.00% of mass 95	7.15
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	86.91
175	5.00 - 9.00% of mass 174	6.35 (7.30)
176	95.00 - 101.00% of mass 174	83.47 (96.03)
177	5.00 - 9.00% of mass 176	5.66 (6.78)

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091701.D

Date : 17-SEP-2010 17:11

Client ID: BFB

Instrument: VOA2.i

Sample Info: BFB;BFB;3;;

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18

Data File: E091701.D
Spectrum: Avg. Scans 910-912 (5.84), Background Scan 903
Location of Maximum: 95.00
Number of points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	463	57.00	1060	76.00	1915	106.00	75
37.00	2271	60.00	419	77.00	151	117.00	170
38.00	2146	61.00	2112	79.00	728	119.00	164
39.00	858	62.00	2034	80.00	68	141.00	405
44.00	88	63.00	1425	81.00	756	143.00	450
45.00	427	64.00	75	82.00	70	174.00	36712
47.00	728	68.00	4199	87.00	1292	175.00	2681
48.00	281	69.00	4077	88.00	1166	176.00	35256
49.00	2130	70.00	344	92.00	1121	177.00	2392
50.00	9302	72.00	185	93.00	1694	207.00	116
51.00	2675	73.00	1762	94.00	4724		
55.00	68	74.00	6828	95.00	42240		
56.00	589	75.00	21808	96.00	3022		

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091702.D
Report Date: 23-Sep-2010 15:07

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\E100917.b\E091702.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 17-SEP-2010 17:49 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD050;VSTD050;2;;
Misc Info : ;WATER;0;1;
Comment :
Method : \\alshsws007\chem\VOA2.i\E100917.b\8260BW.m
Meth Date : 23-Sep-2010 15:07 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	6.378	6.378	(1.000)	255298	50.0000	
*	36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	325381	50.0000	
*	47 Chlorobenzene-d5	117	10.133	10.133	(1.000)	302023	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	12.450	12.450	(1.000)	187652	50.0000	
$	30 Dibromofluoromethane	113	6.289	6.289	(0.986)	109208	50.0000	47.85
$	35 1,2-Dichloroethane-d4	65	6.660	6.660	(1.044)	166123	50.0000	44.58
$	48 Toluene-d8	98	8.695	8.695	(0.858)	431749	50.0000	48.99
$	69 4-Bromofluorobenzene	95	11.304	11.304	(1.116)	179557	50.0000	47.98
	31 1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	164838	50.0000	47.27
	68 1,1,2,2-Tetrachloroethane	83	11.446	11.446	(0.919)	128289	50.0000	50.01
	138 Freon TF	101	3.140	3.140	(0.492)	88231	50.0000	44.28
	53 1,1,2-Trichloroethane	83	9.176	9.176	(0.906)	85018	50.0000	48.21
	22 1,1-Dichloroethane	63	4.903	4.903	(0.769)	250414	50.0000	47.70
	11 1,1-Dichloroethene	96	3.119	3.119	(0.489)	93478	50.0000	49.55
	90 1,2,4-Trichlorobenzene	180	14.453	14.453	(1.161)	152476	50.0000	51.40
	89 1,2-Dibromo-3-Chloropropane	75	13.621	13.621	(1.094)	25536	50.0000	48.42
	57 1,2-Dibromoethane	107	9.673	9.673	(0.955)	101989	50.0000	48.69
	88 1,2-Dichlorobenzene	146	12.847	12.847	(1.032)	246005	50.0000	50.08
	33 1,2-Dichloroethane	62	6.749	6.749	(0.941)	205666	50.0000	44.12
	42 1,2-Dichloropropane	63	7.669	7.669	(1.069)	129678	50.0000	48.90
	83 1,3-Dichlorobenzene	146	12.387	12.387	(0.995)	245173	50.0000	50.46
	84 1,4-Dichlorobenzene	146	12.476	12.476	(1.002)	258817	50.0000	49.55

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091702.D
Report Date: 23-Sep-2010 15:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.904)	140844	100.000	93.10
52	2-Hexanone	43	9.442	9.442	(0.932)	197358	100.000	100.57
45	4-Methyl-2-Pentanone	43	8.611	8.611	(0.850)	309741	100.000	100.58
10	Acetone	43	3.245	3.245	(0.509)	95588	100.000	98.52
37	Benzene	78	6.712	6.712	(0.936)	424858	50.0000	48.31
39	Bromodichloromethane	83	7.968	7.968	(1.111)	150577	50.0000	48.89
66	Bromoform	173	10.980	10.980	(1.084)	73814	50.0000	46.36
6	Bromomethane	94	2.068	2.068	(0.324)	86772	50.0000	47.19
19	Carbon Disulfide	76	3.375	3.375	(0.529)	523240	100.000	102.13
34	Carbon Tetrachloride	117	6.472	6.472	(0.902)	131554	50.0000	41.92
59	Chlorobenzene	112	10.164	10.164	(1.003)	307504	50.0000	49.00
7	Chloroethane	64	2.193	2.193	(0.344)	92908	50.0000	47.43
28	Chloroform	83	6.100	6.100	(0.957)	210327	50.0000	46.34
3	Chloromethane	50	1.623	1.623	(0.255)	209202	50.0000	47.90
27	cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	119086	50.0000	50.78
46	cis-1,3-Dichloropropene	75	8.428	8.428	(1.175)	180993	50.0000	47.83
141	Cyclohexane	56	6.330	6.330	(0.993)	204036	50.0000	44.90
55	Dibromochloromethane	129	9.563	9.563	(0.944)	106110	50.0000	51.25
2	Dichlorodifluoromethane	85	1.435	1.435	(0.225)	119611	50.0000	42.27
61	Ethylbenzene	106	10.274	10.274	(1.014)	153699	50.0000	51.16
67	Isopropylbenzene	105	11.153	11.153	(1.101)	396904	50.0000	46.45
146	Methyl Acetate	43	3.742	3.742	(0.587)	202124	50.0000	47.34
17	Methylene Chloride	84	3.846	3.846	(0.603)	124490	50.0000	47.77
18	Methyl tert-butyl ether	73	4.338	4.338	(0.680)	362533	50.0000	50.48
147	Methylcyclohexane	83	7.628	7.628	(1.063)	119047	50.0000	45.05
64	Styrene	104	10.802	10.802	(1.066)	356208	50.0000	50.56
56	Tetrachloroethene	164	9.306	9.306	(0.918)	90411	50.0000	49.64
50	Toluene	91	8.763	8.763	(0.865)	458652	50.0000	49.35
20	trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	112817	50.0000	49.96
51	trans-1,3-Dichloropropene	75	8.993	8.993	(0.887)	157565	50.0000	47.31
38	Trichloroethene	130	7.434	7.434	(1.036)	105547	50.0000	49.44
8	Trichlorofluoromethane	101	2.481	2.481	(0.389)	184701	50.0000	45.77(T)
5	Vinyl Chloride	62	1.728	1.728	(0.271)	154880	50.0000	48.44
62	m,p-Xylenes	106	10.394	10.394	(1.026)	382132	100.000	102.92
63	o-Xylene	106	10.787	10.787	(1.065)	192392	50.0000	50.02

QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091702.D
Date : 17-SEP-2010 17:49
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091703.D
Report Date: 23-Sep-2010 15:07

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\E100917.b\E091703.D
Lab Smp Id: VLCSW-091710 Client Smp ID: VLCSW-091710
Inj Date : 17-SEP-2010 18:13 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VLCSW-091710;VLCSW-091710;3;;LCS
Misc Info : 100917V2;WATER;0;1;
Comment :
Method : \\alshsws007\chem\VOA2.i\E100917.b\8260BW.m
Meth Date : 23-Sep-2010 15:07 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.377	6.378	(1.000)	249645	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.173	(1.000)	315067	50.0000	
* 47 Chlorobenzene-d5	117	10.138	10.133	(1.000)	295197	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.455	12.450	(1.000)	181967	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.986)	107347	48.1082	48.10
$ 35 1,2-Dichloroethane-d4	65	6.665	6.660	(1.045)	165502	45.4253	45.42
$ 48 Toluene-d8	98	8.700	8.695	(0.858)	427142	49.5912	49.59
$ 69 4-Bromofluorobenzene	95	11.304	11.304	(1.115)	178170	48.7114	48.71
31 1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	162188	47.5676	47.56
68 1,1,2,2-Tetrachloroethane	83	11.451	11.446	(0.919)	125039	50.2712	50.27
138 Freon TF	101	3.145	3.140	(0.493)	83734	43.0722	43.07
53 1,1,2-Trichloroethane	83	9.176	9.176	(0.905)	84462	49.0105	49.01
22 1,1-Dichloroethane	63	4.903	4.903	(0.769)	248799	48.4678	48.46
11 1,1-Dichloroethene	96	3.119	3.119	(0.489)	93209	50.5330	50.53
90 1,2,4-Trichlorobenzene	180	14.458	14.453	(1.161)	145621	50.6289	50.62
89 1,2-Dibromo-3-Chloropropane	75	13.627	13.621	(1.094)	25745	50.2643	50.26
57 1,2-Dibromoethane	107	9.673	9.673	(0.954)	102124	49.8835	49.88
88 1,2-Dichlorobenzene	146	12.853	12.847	(1.032)	233618	49.0492	49.04
33 1,2-Dichloroethane	62	6.749	6.749	(0.940)	202799	44.9343	44.93
42 1,2-Dichloropropane	63	7.675	7.669	(1.069)	129894	50.5880	50.58
83 1,3-Dichlorobenzene	146	12.392	12.387	(0.995)	235190	49.9245	49.92
84 1,4-Dichlorobenzene	146	12.481	12.476	(1.002)	244796	48.3376	48.33

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091703.D
Report Date: 23-Sep-2010 15:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.904)	139572	94.3571	94.35
52	2-Hexanone	43	9.442	9.442	(0.931)	191704	99.9526	99.95
45	4-Methyl-2-Pentanone	43	8.616	8.611	(0.850)	305811	101.602	101.60
10	Acetone	43	3.245	3.245	(0.509)	94731	99.9592	99.95
37	Benzene	78	6.717	6.712	(0.936)	422000	49.5597	49.55
39	Bromodichloromethane	83	7.973	7.968	(1.111)	151133	50.6799	50.67
66	Bromoform	173	10.980	10.980	(1.083)	73491	47.1725	47.17
6	Bromomethane	94	2.068	2.068	(0.324)	85825	47.7380	47.73
19	Carbon Disulfide	76	3.381	3.375	(0.530)	526234	105.047	105.04
34	Carbon Tetrachloride	117	6.472	6.472	(0.902)	127433	41.9380	41.93
59	Chlorobenzene	112	10.169	10.164	(1.003)	300680	49.0294	49.02
7	Chloroethane	64	2.188	2.193	(0.343)	92725	48.4136	48.41
28	Chloroform	83	6.100	6.100	(0.957)	210379	47.4040	47.40
3	Chloromethane	50	1.623	1.623	(0.255)	204438	47.8744	47.87
27	cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	116327	50.7309	50.73
46	cis-1,3-Dichloropropene	75	8.433	8.428	(1.175)	179793	49.0342	49.03
141	Cyclohexane	56	6.336	6.330	(0.993)	187015	42.2927	42.29
55	Dibromochloromethane	129	9.568	9.563	(0.944)	105488	52.1335	52.13
2	Dichlorodifluoromethane	85	1.440	1.435	(0.226)	117888	42.5995	42.59
61	Ethylbenzene	106	10.279	10.274	(1.014)	147058	50.0841	50.08
67	Isopropylbenzene	105	11.158	11.153	(1.101)	375792	45.0692	45.06
146	Methyl Acetate	43	3.741	3.742	(0.587)	201345	48.2331	48.23
17	Methylene Chloride	84	3.846	3.846	(0.603)	122664	48.1366	48.13
18	Methyl tert-butyl ether	73	4.338	4.338	(0.680)	356206	50.7275	50.72
147	Methylcyclohexane	83	7.628	7.628	(1.063)	106740	42.0420	42.04
64	Styrene	104	10.802	10.802	(1.066)	347702	50.4948	50.49
56	Tetrachloroethene	164	9.312	9.306	(0.918)	84730	47.5968	47.59
50	Toluene	91	8.768	8.763	(0.865)	448493	49.3766	49.37
20	trans-1,2-Dichloroethene	96	4.280	4.275	(0.671)	112324	50.8770	50.87
51	trans-1,3-Dichloropropene	75	8.998	8.993	(0.888)	155913	47.8657	47.86
38	Trichloroethene	130	7.439	7.434	(1.036)	104056	50.3419	50.34
8	Trichlorofluoromethane	101	2.481	2.481	(0.389)	183493	46.5072	46.50
5	Vinyl Chloride	62	1.728	1.728	(0.271)	154977	49.5727	49.57
62	m,p-Xylenes	106	10.400	10.394	(1.026)	363755	100.243	100.24
63	o-Xylene	106	10.792	10.787	(1.064)	185211	49.2698	49.26

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091703.D
Date : 17-SEP-2010 18:13
Client ID: VLCSW-091710
Sample Info: VLCSW-091710;VLCSW-091710;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091704.D
Report Date: 23-Sep-2010 15:07

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\E100917.b\E091704.D
Lab Smp Id: VLCSDW-091710 Client Smp ID: VLCSDW-091710
Inj Date : 17-SEP-2010 18:37 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VLCSDW-091710;VLCSDW-091710;3;;LCSD
Misc Info : 100917V2;WATER;0;1;
Comment :
Method : \\alshsws007\chem\VOA2.i\E100917.b\8260BW.m
Meth Date : 23-Sep-2010 15:07 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

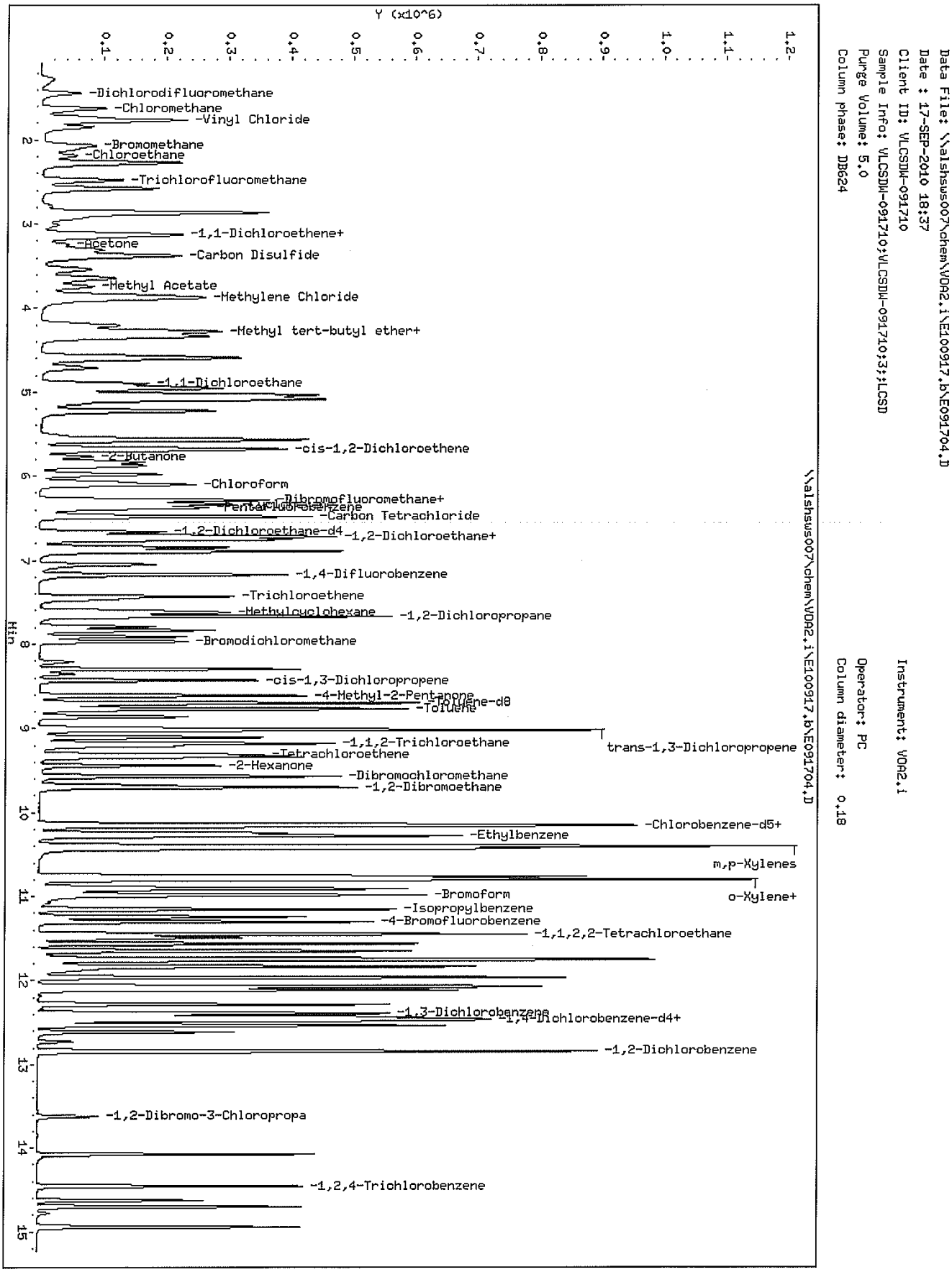
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	6.377	6.378	(1.000)	248566	50.0000	
* 36	1,4-Difluorobenzene	114	7.172	7.173	(1.000)	308270	50.0000	
* 47	Chlorobenzene-d5	117	10.138	10.133	(1.000)	287647	50.0000	
* 70	1,4-Dichlorobenzene-d4	152	12.455	12.450	(1.000)	179359	50.0000	
$ 30	Dibromofluoromethane	113	6.289	6.289	(0.986)	107842	48.5399	48.53
$ 35	1,2-Dichloroethane-d4	65	6.665	6.660	(1.045)	163623	45.1045	45.10
$ 48	Toluene-d8	98	8.700	8.695	(0.858)	422193	50.3032	50.30
$ 69	4-Bromofluorobenzene	95	11.304	11.304	(1.115)	174854	49.0596	49.05
31	1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	160645	47.3195	47.31
68	1,1,2,2-Tetrachloroethane	83	11.446	11.446	(0.919)	124811	50.9091	50.90
138	Freon TF	101	3.145	3.140	(0.493)	79623	41.2743	41.27
53	1,1,2-Trichloroethane	83	9.176	9.176	(0.905)	82956	49.4001	49.40
22	1,1-Dichloroethane	63	4.903	4.903	(0.769)	246394	48.2077	48.20
11	1,1-Dichloroethene	96	3.119	3.119	(0.489)	90465	49.2583	49.25
90	1,2,4-Trichlorobenzene	180	14.458	14.453	(1.161)	144436	50.9471	50.94
89	1,2-Dibromo-3-Chloropropane	75	13.621	13.621	(1.094)	25149	49.8331	49.83
57	1,2-Dibromoethane	107	9.673	9.673	(0.954)	102462	51.3622	51.36
88	1,2-Dichlorobenzene	146	12.847	12.847	(1.031)	234506	49.9515	49.95
33	1,2-Dichloroethane	62	6.749	6.749	(0.941)	203399	46.0609	46.06
42	1,2-Dichloropropane	63	7.669	7.669	(1.069)	126463	50.3377	50.33
83	1,3-Dichlorobenzene	146	12.387	12.387	(0.995)	231369	49.8276	49.82
84	1,4-Dichlorobenzene	146	12.476	12.476	(1.002)	245239	49.1292	49.12

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091704.D
Report Date: 23-Sep-2010 15:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.904)	136799	92.8838	92.88
52	2-Hexanone	43	9.442	9.442	(0.931)	195716	104.723	104.72
45	4-Methyl-2-Pentanone	43	8.611	8.611	(0.849)	303405	103.449	103.44
10	Acetone	43	3.239	3.245	(0.508)	94212	99.8339	99.83
37	Benzene	78	6.717	6.712	(0.937)	417107	50.0651	50.06
39	Bromodichloromethane	83	7.973	7.968	(1.112)	149143	51.1153	51.11
66	Bromoform	173	10.980	10.980	(1.083)	74595	49.0072	49.00
6	Bromomethane	94	2.068	2.068	(0.324)	85234	47.6150	47.61
19	Carbon Disulfide	76	3.375	3.375	(0.529)	515947	103.440	103.44
34	Carbon Tetrachloride	117	6.477	6.472	(0.903)	125709	42.2629	42.26
59	Chlorobenzene	112	10.164	10.164	(1.003)	297617	49.8038	49.80
7	Chloroethane	64	2.188	2.193	(0.343)	91532	47.9982	47.99
28	Chloroform	83	6.100	6.100	(0.957)	206535	46.7398	46.73
3	Chloromethane	50	1.618	1.623	(0.254)	200580	47.1815	47.18
27	cis-1,2-Dichloroethene	96	5.687	5.687	(0.892)	112705	49.3647	49.36
46	cis-1,3-Dichloropropene	75	8.433	8.428	(1.176)	180544	50.2871	50.28
141	Cyclohexane	56	6.336	6.330	(0.993)	180312	41.0534	41.05
55	Dibromochloromethane	129	9.563	9.563	(0.943)	104793	53.1494	53.14
2	Dichlorodifluoromethane	85	1.435	1.435	(0.225)	114731	41.6601	41.66
61	Ethylbenzene	106	10.279	10.274	(1.014)	146857	51.3284	51.32
67	Isopropylbenzene	105	11.153	11.153	(1.100)	374049	45.9941	45.99
146	Methyl Acetate	43	3.741	3.742	(0.587)	196052	47.1690	47.16
17	Methylene Chloride	84	3.841	3.846	(0.602)	122654	48.3416	48.34
18	Methyl tert-butyl ether	73	4.338	4.338	(0.680)	352287	50.3872	50.38
147	Methylcyclohexane	83	7.628	7.628	(1.063)	103994	41.8823	41.88
64	Styrene	104	10.802	10.802	(1.066)	345570	51.5024	51.50
56	Tetrachloroethene	164	9.312	9.306	(0.918)	82796	47.7312	47.73
50	Toluene	91	8.768	8.763	(0.865)	446169	50.4100	50.41
20	trans-1,2-Dichloroethene	96	4.280	4.275	(0.671)	109081	49.6226	49.62
51	trans-1,3-Dichloropropene	75	8.998	8.993	(0.888)	157866	49.6393	49.63
38	Trichloroethene	130	7.434	7.434	(1.036)	101724	50.2988	50.29
8	Trichlorofluoromethane	101	2.476	2.481	(0.388)	178000	45.3108	45.31
5	Vinyl Chloride	62	1.728	1.728	(0.271)	150757	48.4322	48.43
62	m,p-Xylenes	106	10.394	10.394	(1.025)	362048	102.391	102.39
63	o-Xylene	106	10.787	10.787	(1.064)	181359	49.5114	49.51


Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091704.D
Date : 17-SEP-2010 18:37
Client ID: VLCSDW-091710
Sample Info: VLCSDW-091710;VLCSDW-091710;3;;LCSD
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA2.i
Operator: PC
Column diameter: 0.18
Y (x10^6)
Min
\\alshsws007\chem\VOA2.i\E100917.b\E091704.D
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-1,1-Dichloroethene+
-Acetone
-Carbon Disulfide
-Methyl Acetate
-Methylene Chloride
-Methyl tert-butyl ether+
-1,1-Dichloroethane
-cis-1,2-Dichloroethene
-2-Butanone
-Chloroform
-Dibromofluoromethane+
-Pentafluorobenzene
-Carbon Tetrachloride
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-1,4-Difluorobenzene
-Trichloroethene
-Methylcyclohexane
-1,2-Dichloropropane
-Bromodichloromethane
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-1,1,2-Trichloroethane
trans-1,3-Dichloropropene
-Tetrachloroethene
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-Ethylbenzene
m,p-Xylenes
o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091706.D
Report Date: 23-Sep-2010 15:07

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Data file : \\alshsws007\chem\VOA2.i\E100917.b\E091706.D
Lab Smp Id: VBLKW-091710 Client Smp ID: VBLKW-091710
Inj Date : 17-SEP-2010 19:48 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VBLKW-091710;VBLKW-091710;3;;BLANK
Misc Info : 100917V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\E100917.b\8260BW.m
Meth Date : 23-Sep-2010 15:07 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

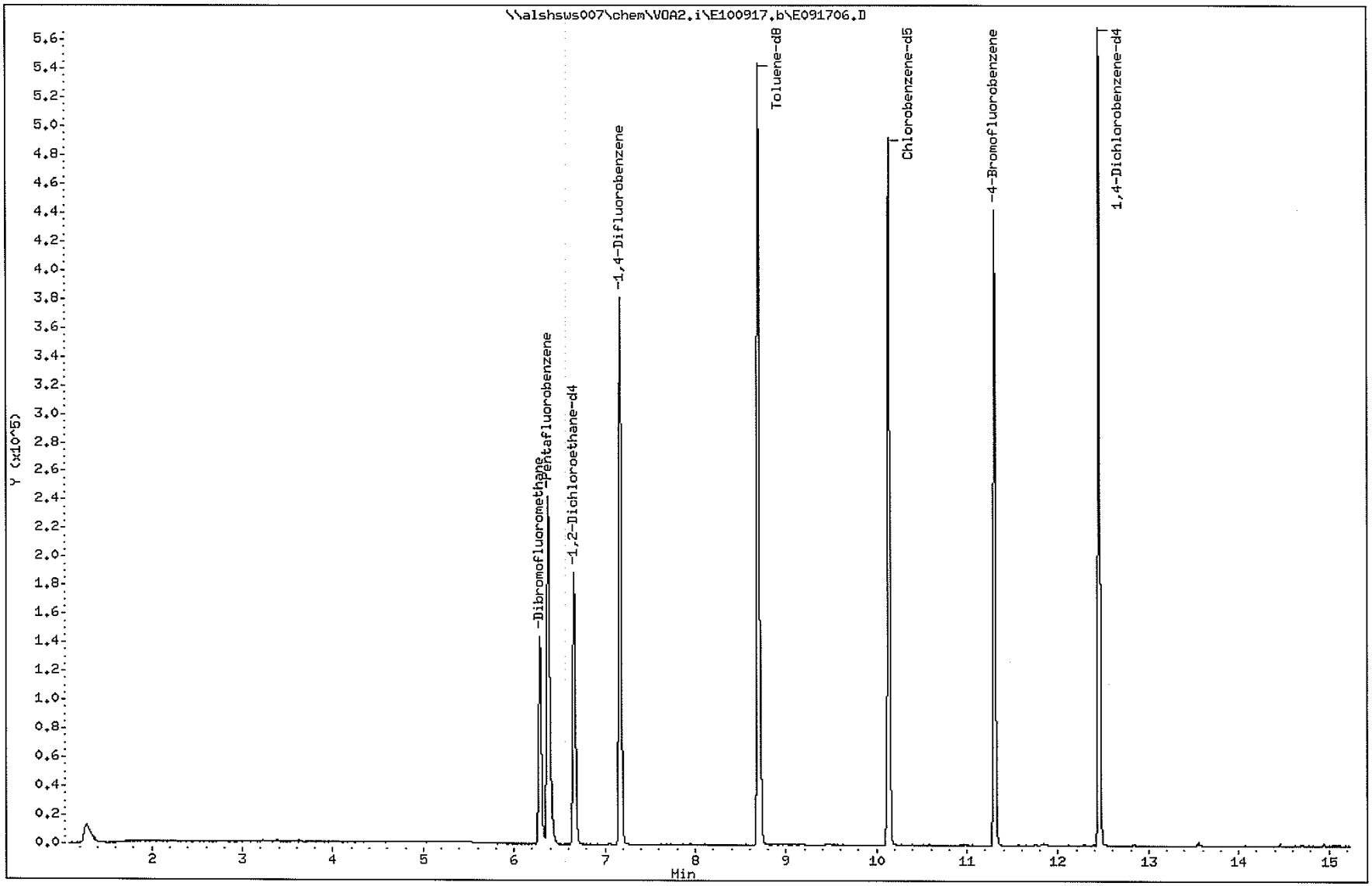
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.377	6.378	(1.000)	214068	50.0000	
* 36 1,4-Difluorobenzene	114	7.172	7.173	(1.000)	272800	50.0000	
* 47 Chlorobenzene-d5	117	10.133	10.133	(1.000)	248212	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.450	12.450	(1.000)	147015	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.986)	95614	49.9715	49.97
$ 35 1,2-Dichloroethane-d4	65	6.665	6.660	(1.045)	153922	49.2681	49.26
$ 48 Toluene-d8	98	8.700	8.695	(0.859)	357721	49.3931	49.39
$ 69 4-Bromofluorobenzene	95	11.304	11.304	(1.116)	143906	46.7912	46.79

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091706.D
Date : 17-SEP-2010 19:48
Client ID: VBLKW-091710
Sample Info: VBLKW-091710;VBLKW-091710;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091718.D
Report Date: 23-Sep-2010 15:07

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\E100917.b\E091718.D
Lab Smp Id: 1009543-04A Client Smp ID: 1009543-04A
Inj Date : 18-SEP-2010 00:35 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : 1009543-04A;1009543-04A;;;
Misc Info : 100917V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\E100917.b\8260BW.m
Meth Date : 23-Sep-2010 15:07 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

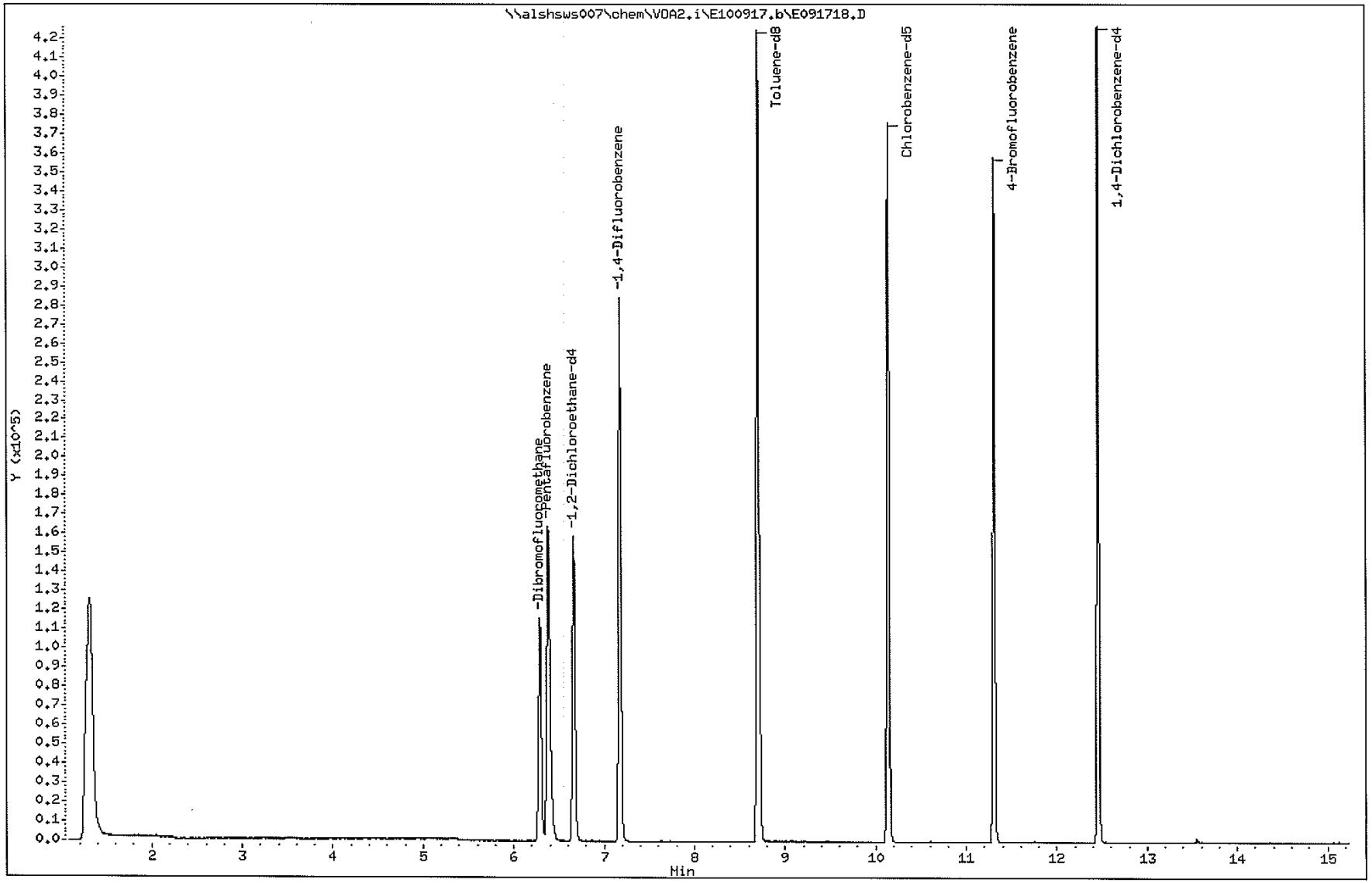
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.378	(1.000)	149201	50.0000	
* 36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	194650	50.0000	
* 47 Chlorobenzene-d5	117	10.138	10.133	(1.000)	182080	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.455	12.450	(1.000)	106874	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.985)	74457	55.8324	55.83
$ 35 1,2-Dichloroethane-d4	65	6.665	6.660	(1.044)	134189	61.6258	61.62
$ 48 Toluene-d8	98	8.700	8.695	(0.858)	273253	51.4336	51.43
$ 69 4-Bromofluorobenzene	95	11.305	11.304	(1.115)	108989	48.3091	48.30

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091718.D
Date : 18-SEP-2010 00:35
Client ID: 1009543-04A
Sample Info: 1009543-04A;1009543-04A;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091720.D
Report Date: 23-Sep-2010 15:07

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\E100917.b\E091720.D
Lab Smp Id: 1009543-07A Client Smp ID: 1009543-07A
Inj Date : 18-SEP-2010 01:23 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : 1009543-07A;1009543-07A;;;
Misc Info : 100917V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\E100917.b\8260BW.m
Meth Date : 23-Sep-2010 15:07 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

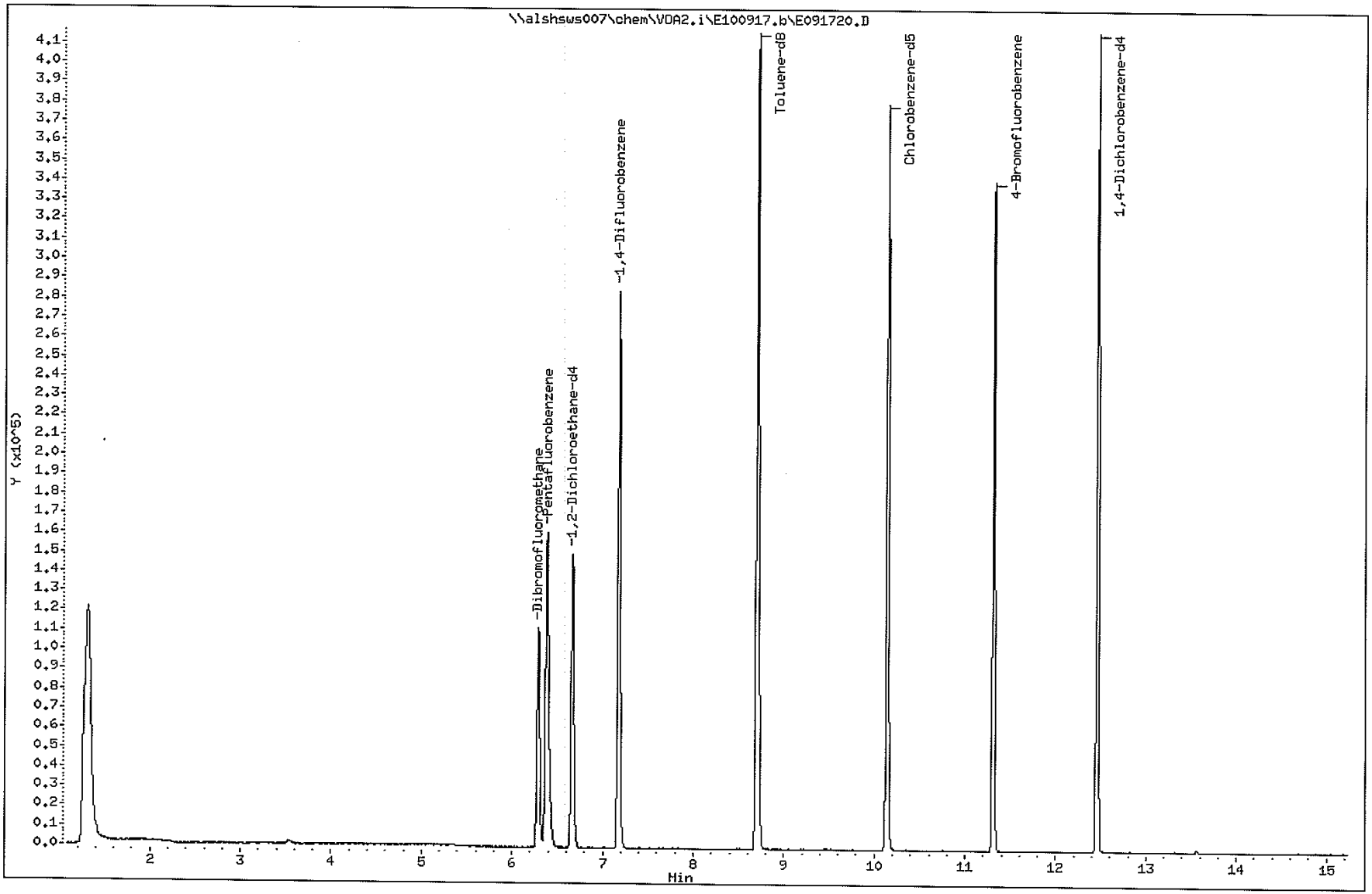
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.378	(1.000)	147126	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.173	(1.000)	190719	50.0000	
* 47 Chlorobenzene-d5	117	10.138	10.133	(1.000)	179687	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.460	12.450	(1.000)	105426	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.985)	73597	55.9659	55.96
$ 35 1,2-Dichloroethane-d4	65	6.665	6.660	(1.044)	131040	61.0283	61.02
$ 48 Toluene-d8	98	8.705	8.695	(0.859)	268424	51.1975	51.19
$ 69 4-Bromofluorobenzene	95	11.310	11.304	(1.116)	107170	48.1354	48.13

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091720.D
Date : 18-SEP-2010 01:23
Client ID: 1009543-07A
Sample Info: 1009543-07A;1009543-07A;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i

Operator: PC
Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091722.D
Report Date: 23-Sep-2010 15:07

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Data file : \\alshsws007\chem\VOA2.i\E100917.b\E091722.D
Lab Smp Id: 1009543-10A Client Smp ID: 1009543-10A
Inj Date : 18-SEP-2010 02:11 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : 1009543-10A;1009543-10A;;;
Misc Info : 100917V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\E100917.b\8260BW.m
Meth Date : 23-Sep-2010 15:07 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

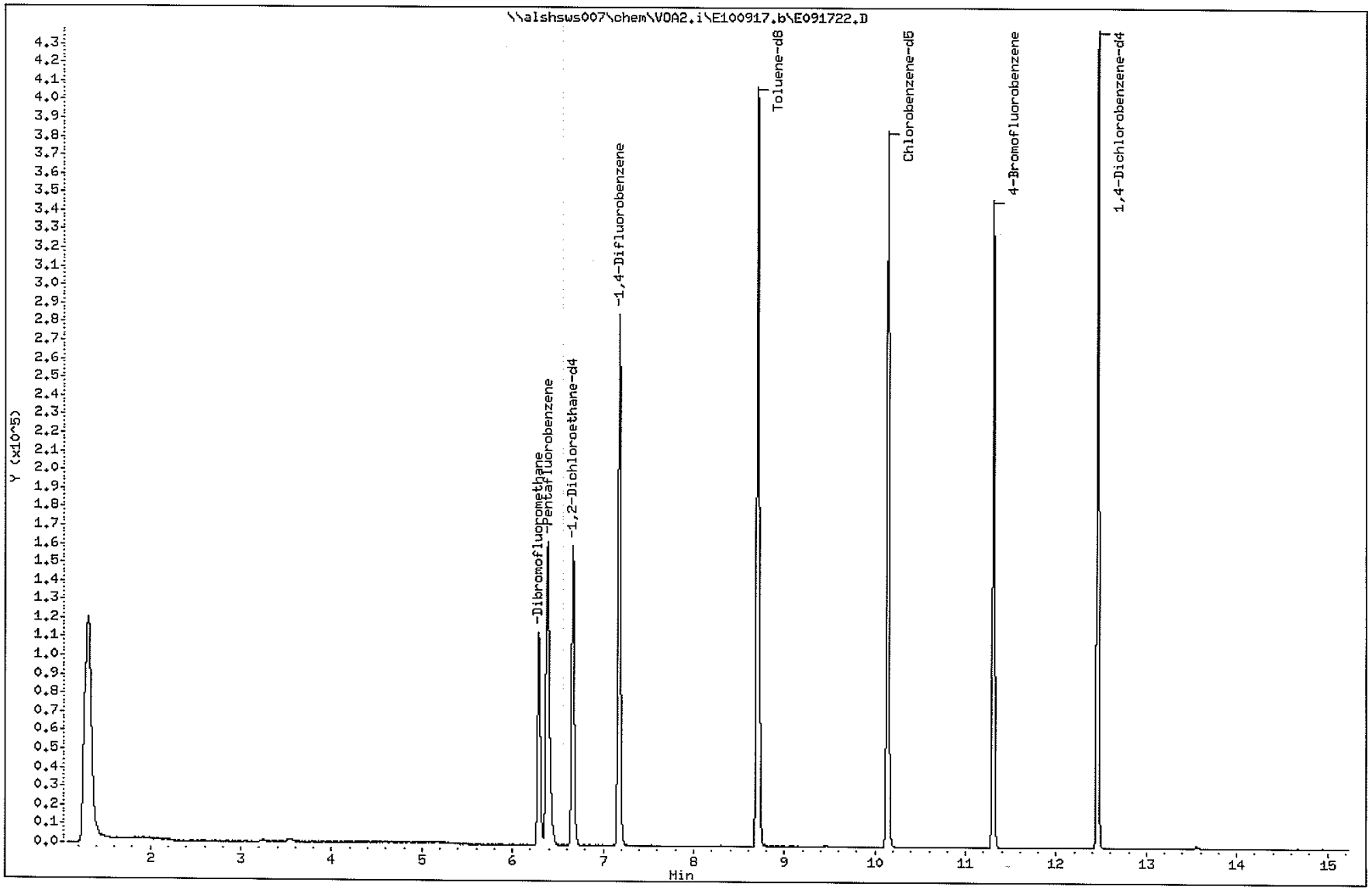
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.378	(1.000)	153749	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.173	(1.000)	198122	50.0000	
* 47 Chlorobenzene-d5	117	10.138	10.133	(1.000)	187658	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.455	12.450	(1.000)	109203	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.985)	74023	53.8650	53.86
$ 35 1,2-Dichloroethane-d4	65	6.665	6.660	(1.044)	136780	60.9575	60.95
$ 48 Toluene-d8	98	8.700	8.695	(0.858)	265426	48.4753	48.47
$ 69 4-Bromofluorobenzene	95	11.304	11.304	(1.115)	106261	45.6999	45.69

Data File: \\alshsws007\chem\VOA2.i\E100917.b\E091722.D
Date : 18-SEP-2010 02:11
Client ID: 1009543-10A
Sample Info: 1009543-10A;1009543-10A;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i

Operator: PC
Column diameter: 0.18



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MS VOA 2 - Instrument Run Log

Logbook #23118

Sequence #: D091810	IS ID: 23210-18-2	Method ID: 8260 / 624	SOP ID: MSV-001 / MSV-002
Cal STD ID: 23210-17-11/18-1	ICV StD ID N/A	LCS/MS ID: 23210-17-11/18-1	Surr. ID: 23210-18-3

File ID	WO #	SX #	pH	Soil/ Water	Sample-Vol Wt (ml or g)	Purge Vol.-mL	Dil. Fac.	Inj. Date	Inj. Time	Status	Comments
D091801	BFB	50 ng	—	—	—	—	—	9/18/10	12:22	✓	
02	VSTD050	50 ng	—	water	50	5	X1		12:37	✓	
03	VSW	VSW-9/18/10	—						13:00	✓	
04	VSDW	VSDW-9/18/10	—						13:24	✓	
05	VMEM	VMEM-9/18/10	—	W	1.0 ml/total		X1.25		14:12	NU	
06	VMEW	VMEW-9/18/10	—	W	50		X1		14:36	✓	
07	1009582	10A	C2						15:00	✓	
08		11A							15:23	✓	
09		10AMS							15:50	✓	
10		10AMSD							16:14	✓	
11	1009411	13A			10 ml/total		X5		16:44	✓	
12	1009543	05A			50		X1		17:08	✓	
13		08A							17:31	✓	
14		11A							17:55	✓	
15	1009425	09A	—	W	1.0 ml/total		X1.25		18:19	✓	
16	1009483	01A	C2	W	10 ml/total		X5		18:43	✓	
17	1009411	14A							19:06	✓	
18	1009543	13A			50		X1		19:31	✓	
19		14A							19:55	✓	
20	1009582	02A							20:19	✓	
21		04A							20:43	✓	
22		06A							21:07	✓	
23		07A							21:31	✓	
24		13A							21:55	✓	
25		14A							22:19	✓	
26		15A							22:44	✓	
27	1009411	17A			10 ml/total		X5		23:08	✓	
28		11A							23:31	✓	

Pentafluorobenzene:	216305	Chlorobenzene-d_5:	259624	BFB Ion 95 Response:	36688
1,4-Difluorobenzene:	273306	1,4-Dichlorobenzene-d_4:	164530	Analyst:	KC

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FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date: 09/18/10 Time: 1237

Lab File ID: D091802 Init. Calib. Date(s): 09/17/10 09/17/10

Heated Purge: (Y/N) N Init. Calib. Times: 1316 1601

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Dichlorodifluoromethane	51.82	50.00	LINR	3.6	20.0
Chloromethane	51.19	50.00	LINR	2.4	20.0
Vinyl Chloride	53.73	50.00	AVRG	7.5	20.0
Bromomethane	52.12	50.00	AVRG	4.2	20.0
Chloroethane	52.18	50.00	AVRG	4.4	20.0
Trichlorofluoromethane	54.84	50.00	AVRG	9.7	20.0
Acetone	102.45	100.00	LINR	2.4	20.0
1,1-Dichloroethene	52.13	50.00	AVRG	4.3	20.0
Methylene Chloride	49.40	50.00	AVRG	1.2	20.0
Carbon Disulfide	104.98	100.00	AVRG	5.0	20.0
trans-1,2-Dichloroethene	51.03	50.00	AVRG	2.1	20.0
1,1-Dichloroethane	49.95	50.00	AVRG	0.1	20.0
2-Butanone	90.49	100.00	AVRG	9.5	20.0
cis-1,2-Dichloroethene	48.67	50.00	AVRG	2.7	20.0
Chloroform	49.14	50.00	AVRG	1.7	20.0
1,1,1-Trichloroethane	52.54	50.00	AVRG	5.1	20.0
1,2-Dichloroethane	48.64	50.00	AVRG	2.7	20.0
Carbon Tetrachloride	47.35	50.00	LINR	5.3	20.0
Benzene	49.57	50.00	AVRG	0.9	20.0
Trichloroethene	51.17	50.00	AVRG	2.3	20.0
Bromodichloromethane	52.33	50.00	AVRG	4.7	20.0
1,2-Dichloropropane	50.83	50.00	AVRG	1.7	20.0
4-Methyl-2-Pentanone	97.87	100.00	AVRG	2.1	20.0
cis-1,3-Dichloropropene	48.70	50.00	LINR	2.6	20.0
Toluene	49.78	50.00	AVRG	0.4	20.0
trans-1,3-Dichloropropene	48.38	50.00	LINR	3.2	20.0
2-Hexanone	98.86	100.00	AVRG	1.1	20.0
1,1,2-Trichloroethane	47.35	50.00	AVRG	5.3	20.0
Dibromochloromethane	52.04	50.00	AVRG	4.1	20.0
Tetrachloroethene	50.94	50.00	AVRG	1.9	20.0
1,2-Dibromoethane	49.62	50.00	AVRG	0.8	20.0
Chlorobenzene	49.86	50.00	AVRG	0.3	20.0
Ethylbenzene	52.71	50.00	AVRG	5.4	20.0
m,p-Xylenes	106.84	100.00	AVRG	6.8	20.0
o-Xylene	51.52	50.00	AVRG	3.0	20.0
Styrene	52.08	50.00	AVRG	4.2	20.0
Bromoform	46.63	50.00	2ORDR	6.7	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date: 09/18/10 Time: 1237

Lab File ID: D091802 Init. Calib. Date(s): 09/17/10 09/17/10

Heated Purge: (Y/N) N Init. Calib. Times: 1316 1601

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Isopropylbenzene	49.46	50.00	LINR	1.1	20.0
1,1,2,2-Tetrachloroethane	49.08	50.00	AVRG	1.8	20.0
1,3-Dichlorobenzene	51.66	50.00	AVRG	3.3	20.0
1,4-Dichlorobenzene	50.16	50.00	AVRG	0.3	20.0
1,2-Dichlorobenzene	50.93	50.00	AVRG	1.9	20.0
1,2-Dibromo-3-Chloropropane	47.58	50.00	2ORDR	4.8	20.0
1,2,4-Trichlorobenzene	52.54	50.00	AVRG	5.1	20.0
Methyl tert-butyl ether	50.76	50.00	AVRG	1.5	20.0
Methylcyclohexane	50.06	50.00	2ORDR	0.1	20.0
Cyclohexane	48.05	50.00	LINR	3.9	20.0
Freon TF	49.92	50.00	LINR	0.2	20.0
Methyl Acetate	48.64	50.00	AVRG	2.7	20.0
Dibromofluoromethane	49.34	50.00	AVRG	1.3	20.0
1,2-Dichloroethane-d4	48.32	50.00	AVRG	3.4	20.0
Toluene-d8	48.78	50.00	AVRG	2.4	20.0
4-Bromofluorobenzene	49.38	50.00	AVRG	1.2	20.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): D091802 Date Analyzed: 09/18/10

Instrument ID: VOA2 Time Analyzed: 1237

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	216305	6.38	273306	7.17	259624	10.13
	UPPER LIMIT	432610	6.88	546612	7.67	519248	10.63
	LOWER LIMIT	108153	5.88	136653	6.67	129812	9.63
	CLIENT SAMPLE NO.						
01	VLCSW-091810	213162	6.38	268074	7.17	256240	10.14
02	VLCSDW-09181	218254	6.38	275652	7.17	260624	10.13
03	VBLKW-091810	180157	6.38	231548	7.17	212062	10.14
04	1009543-05A	173685	6.38	227304	7.17	207899	10.14
05	1009543-08A	167552	6.38	216168	7.18	201183	10.14
06	1009543-11A	162667	6.38	212073	7.18	193691	10.14
07	1009543-13A	203734	6.38	262482	7.17	248988	10.14
08	1009543-14A	198676	6.38	255984	7.17	238885	10.13
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): D091802 Date Analyzed: 09/18/10

Instrument ID: VOA2 Time Analyzed: 1237

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS4 (DCB) AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	164530		12.45									
	UPPER LIMIT	329060		12.95									
	LOWER LIMIT	82265		11.95									
	CLIENT SAMPLE NO.												
01	VLCSW-091810	162334		12.46									
02	VLCSDW-09181	164561		12.45									
03	VBLKW-091810	123505		12.45									
04	1009543-05A	123342		12.46									
05	1009543-08A	117125		12.46									
06	1009543-11A	114795		12.46									
07	1009543-13A	146838		12.45									
08	1009543-14A	142554		12.46									
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (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.

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091801.D

Page 1

Date : 18-SEP-2010 12:22

Client ID: BFB

Instrument: VOA2.i

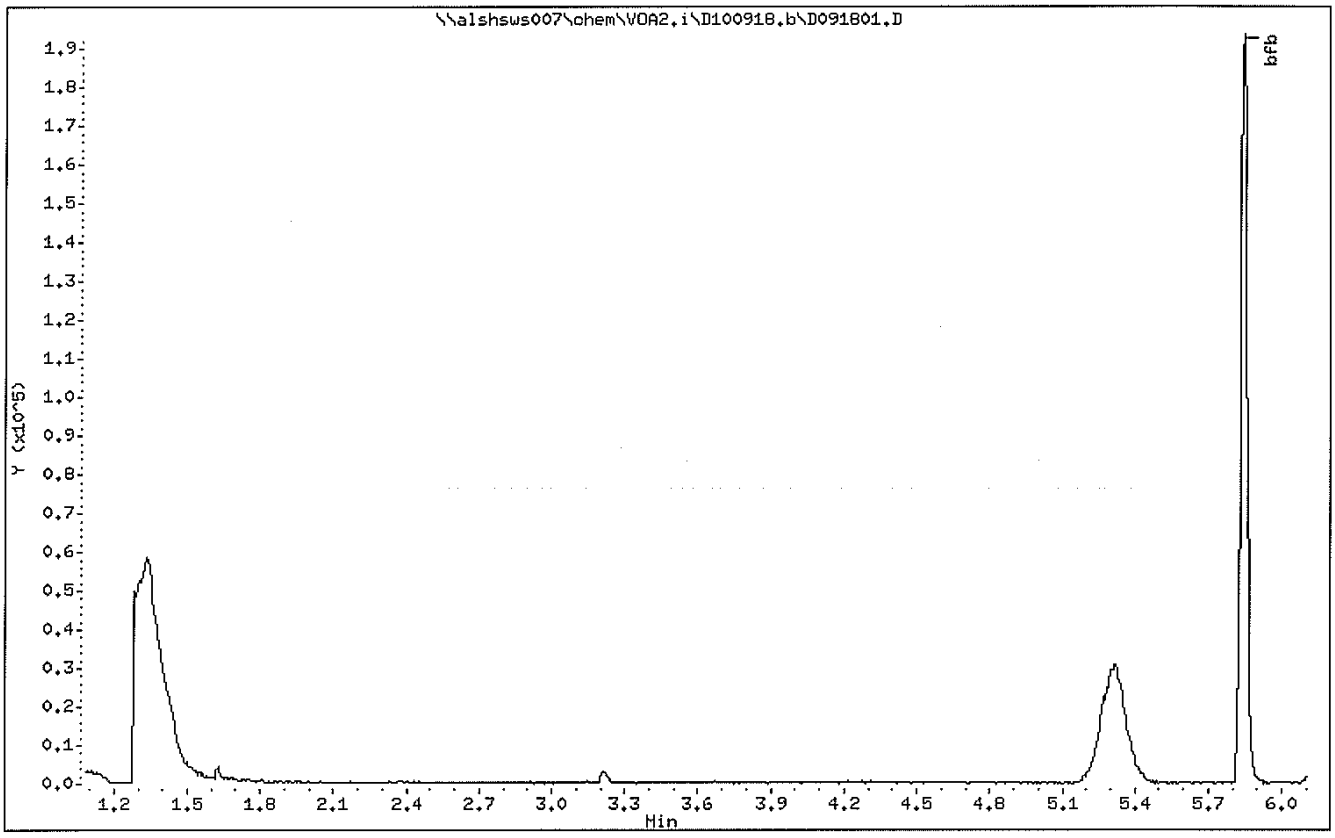
Sample Info: BFB;BFB;3;;

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091801.D

Date : 18-SEP-2010 12:22

Client ID: BFB

Instrument: VOA2.i

Sample Info: BFB;BFB;3;;

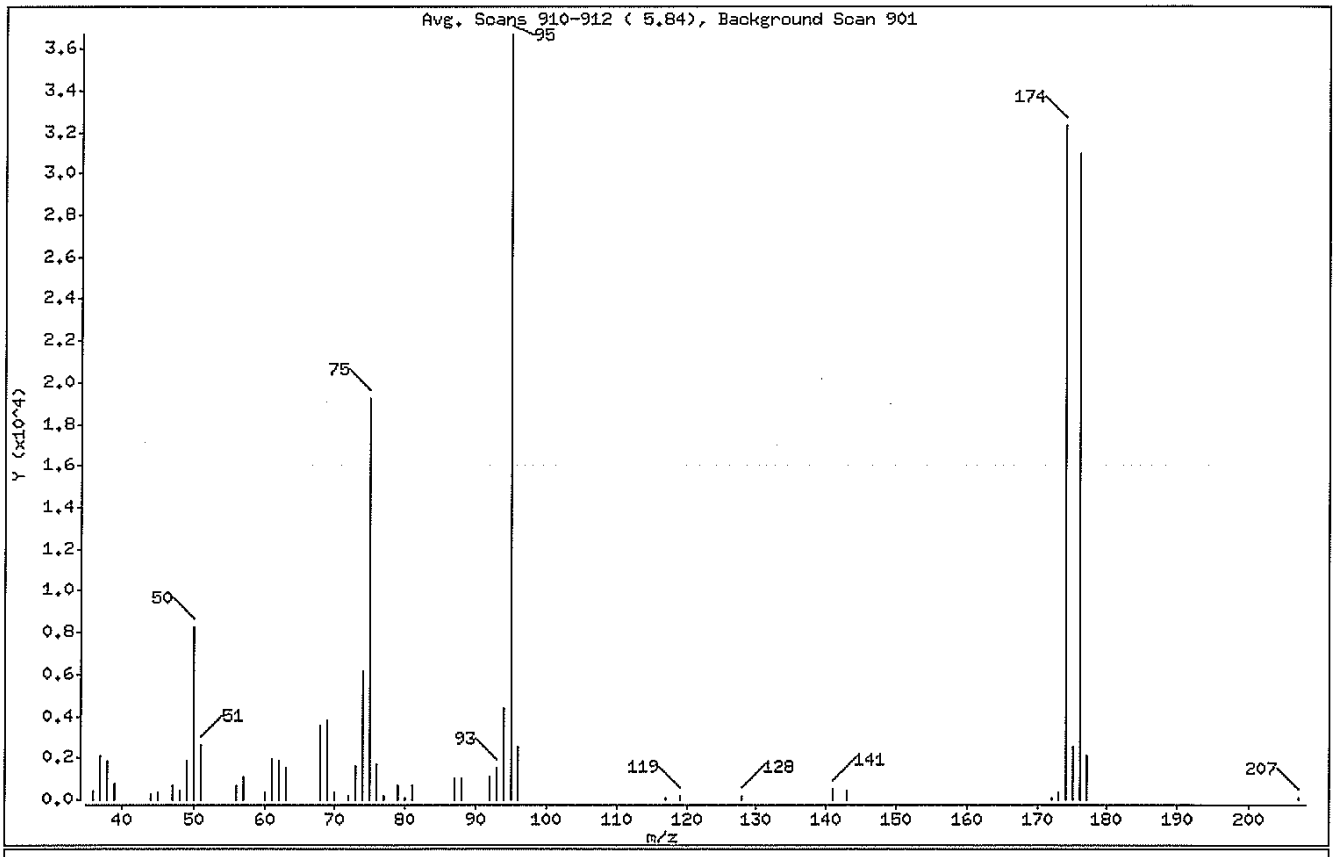
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.48
75	30.00 - 60.00% of mass 95	52.44
96	5.00 - 9.00% of mass 95	6.97
173	Less than 2.00% of mass 174	0.81 (0.92)
174	Greater than 50.00% of mass 95	88.14
175	5.00 - 9.00% of mass 174	6.91 (7.84)
176	95.00 - 101.00% of mass 174	84.39 (95.74)
177	5.00 - 9.00% of mass 176	5.79 (6.86)

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091801.D

Date : 18-SEP-2010 12:22

Client ID: BFB

Instrument: VOA2.i

Sample Info: BFB;BFB;3;;

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18

Data File: D091801.D
Spectrum: Avg. Scans 910-912 (5.84), Background Scan 901
Location of Maximum: 95.00
Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	405	60.00	362	79.00	705	141.00	494
37.00	2080	61.00	1980	80.00	97	143.00	426
38.00	1851	62.00	1820	81.00	676	172.00	81
39.00	783	63.00	1500	87.00	1029	173.00	298
44.00	228	68.00	3507	88.00	999	174.00	32336
45.00	372	69.00	3801	92.00	1056	175.00	2535
47.00	683	70.00	336	93.00	1524	176.00	30960
48.00	399	72.00	165	94.00	4351	177.00	2125
49.00	1835	73.00	1611	95.00	36688	207.00	81
50.00	8248	74.00	6138	96.00	2557		
51.00	2573	75.00	19240	117.00	116		
56.00	637	76.00	1714	119.00	159		
57.00	1073	77.00	146	128.00	155		

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091802.D
Report Date: 23-Sep-2010 15:11

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100918.b\D091802.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 18-SEP-2010 12:37 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD050;VSTD050;2;;
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100918.b\8260BW.m
Meth Date : 23-Sep-2010 15:11 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

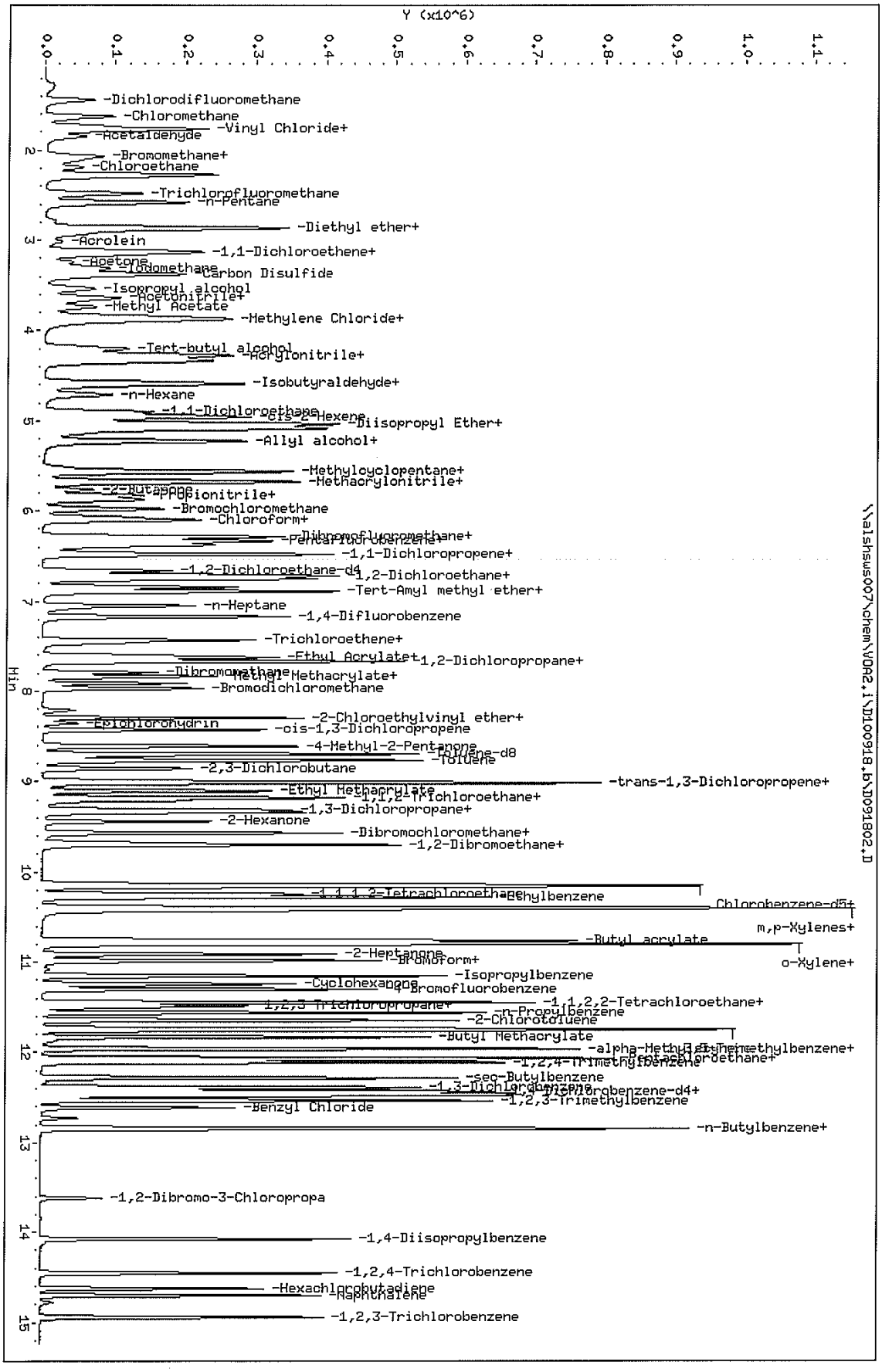
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
*	1 Pentafluorobenzene	168	6.378	6.378	(1.000)	216305	50.0000	
*	36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	273306	50.0000	
*	47 Chlorobenzene-d5	117	10.133	10.133	(1.000)	259624	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	12.450	12.450	(1.000)	164530	50.0000	
$	30 Dibromofluoromethane	113	6.289	6.289	(0.986)	95394	50.0000	49.34
$	35 1,2-Dichloroethane-d4	65	6.660	6.660	(1.044)	152556	50.0000	48.32
$	48 Toluene-d8	98	8.700	8.700	(0.859)	369545	50.0000	48.78
$	69 4-Bromofluorobenzene	95	11.299	11.299	(1.115)	158863	50.0000	49.38
	31 1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	155243	50.0000	52.54
	68 1,1,2,2-Tetrachloroethane	83	11.446	11.446	(0.919)	110389	50.0000	49.08
	138 Freon TF	101	3.145	3.145	(0.493)	84986	50.0000	49.92
	53 1,1,2-Trichloroethane	83	9.176	9.176	(0.906)	71778	50.0000	47.35
	22 1,1-Dichloroethane	63	4.897	4.897	(0.768)	222208	50.0000	49.95
	11 1,1-Dichloroethene	96	3.114	3.114	(0.488)	83319	50.0000	52.13
	90 1,2,4-Trichlorobenzene	180	14.453	14.453	(1.161)	136649	50.0000	52.54
	89 1,2-Dibromo-3-Chloropropane	75	13.621	13.621	(1.094)	21982	50.0000	47.58
	57 1,2-Dibromoethane	107	9.667	9.667	(0.954)	89355	50.0000	49.62
	88 1,2-Dichlorobenzene	146	12.847	12.847	(1.032)	219345	50.0000	50.93
	33 1,2-Dichloroethane	62	6.749	6.749	(0.941)	190442	50.0000	48.64
	42 1,2-Dichloropropane	63	7.669	7.669	(1.069)	113231	50.0000	50.83
	83 1,3-Dichlorobenzene	146	12.387	12.387	(0.995)	220077	50.0000	51.66
	84 1,4-Dichlorobenzene	146	12.476	12.476	(1.002)	229714	50.0000	50.16

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091802.D
Report Date: 23-Sep-2010 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.904)	115978	100.000	90.49
52	2-Hexanone	43	9.437	9.437	(0.931)	166769	100.000	98.86
45	4-Methyl-2-Pentanone	43	8.611	8.611	(0.850)	259086	100.000	97.87
10	Acetone	43	3.239	3.239	(0.508)	83977	100.000	102.45
37	Benzene	78	6.718	6.718	(0.937)	366200	50.0000	49.57
39	Bromodichloromethane	83	7.968	7.968	(1.111)	135384	50.0000	52.33
66	Bromoform	173	10.975	10.975	(1.083)	63845	50.0000	46.63
6	Bromomethane	94	2.068	2.068	(0.324)	81204	50.0000	52.12
19	Carbon Disulfide	76	3.381	3.381	(0.530)	455707	100.000	104.98
34	Carbon Tetrachloride	117	6.472	6.472	(0.902)	125687	50.0000	47.35
59	Chlorobenzene	112	10.164	10.164	(1.003)	268937	50.0000	49.86
7	Chloroethane	64	2.193	2.193	(0.344)	86600	50.0000	52.18
28	Chloroform	83	6.100	6.100	(0.957)	188983	50.0000	49.14
3	Chloromethane	50	1.623	1.623	(0.255)	189536	50.0000	51.19
27	cis-1,2-Dichloroethene	96	5.682	5.682	(0.891)	96699	50.0000	48.67
46	cis-1,3-Dichloropropene	75	8.428	8.428	(1.175)	154890	50.0000	48.70
141	Cyclohexane	56	6.336	6.336	(0.993)	185910	50.0000	48.05
55	Dibromochloromethane	129	9.563	9.563	(0.944)	92619	50.0000	52.04
2	Dichlorodifluoromethane	85	1.440	1.440	(0.226)	124778	50.0000	51.82
61	Ethylbenzene	106	10.274	10.274	(1.014)	136129	50.0000	52.71
67	Isopropylbenzene	105	11.153	11.153	(1.101)	364298	50.0000	49.46
146	Methyl Acetate	43	3.742	3.742	(0.587)	175928	50.0000	48.64
17	Methylene Chloride	84	3.841	3.841	(0.602)	109086	50.0000	49.40
18	Methyl tert-butyl ether	73	4.333	4.333	(0.679)	308882	50.0000	50.76
147	Methylcyclohexane	83	7.628	7.628	(1.063)	112324	50.0000	50.06
64	Styrene	104	10.797	10.797	(1.066)	315453	50.0000	52.08
56	Tetrachloroethene	164	9.312	9.312	(0.919)	79755	50.0000	50.94
50	Toluene	91	8.763	8.763	(0.865)	397694	50.0000	49.78
20	trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	97621	50.0000	51.03
51	trans-1,3-Dichloropropene	75	8.993	8.993	(0.887)	138691	50.0000	48.38
38	Trichloroethene	130	7.434	7.434	(1.036)	91763	50.0000	51.17
8	Trichlorofluoromethane	101	2.481	2.481	(0.389)	187493	50.0000	54.84(T)
5	Vinyl Chloride	62	1.728	1.728	(0.271)	145542	50.0000	53.73
62	m,p-Xylenes	106	10.394	10.394	(1.026)	340990	100.000	106.84
63	o-Xylene	106	10.787	10.787	(1.065)	170347	50.0000	51.52

QC Flag Legend

T - Target compound detected outside RT window.


Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091802.D
Date : 18-SEP-2010 12:37
Client ID: VSTD050
Sample Info: VSTD50;VSTD50;2;;
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA2.i
Operator: PC
Column diameter: 0.18
\\alshsws007\chem\VOA2.i\D100918.b\D091802.D
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane+
-Chloroethane
-Trichlorofluoromethane
-n-Pentane
-Diethyl ether+
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Isopropyl alcohol
-Acetonitrile+
-Methyl Acetate
-Methylene Chloride+
-Tert-butyl alcohol
-Acrylonitrile+
-Isobutyraldehyde+
-n-Hexane
-1,1-Dichloroethane
-Diisopropyl Ether+
-Allyl alcohol+
-Methylcyclopentane+
-Methacrylonitrile+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Tert-Amyl methyl ether+
-n-Heptane
-1,4-Difluorobenzene
-Trichloroethene+
-Ethyl Acrylate+
-1,2-Dichloropropane+
-Dibromomethane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-Epichlorohydrin
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-2,3-Dichlorobutane
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
Ethylbenzene
Chlorobenzene-d5+
m,p-Xylenes+
-Butyl acrylate
-2-Heptanone
-Bromoform+
o-Xylene+
-Isopropylbenzene
-Cyclohexanone
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
1,2,3-Trichloropropane+
-n-Propylbenzene
-2-Chlorotoluene
-Butyl Methacrylate
-alpha-Methylstyrene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-1,2,3-Trimethylbenzene
-Benzyl Chloride
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,4-Diisopropylbenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091803.D
Report Date: 23-Sep-2010 15:11

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100918.b\D091803.D
Lab Smp Id: VLCSW-091810 Client Smp ID: VLCSW-091810
Inj Date : 18-SEP-2010 13:00 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VLCSW-091810;VLCSW-091810;3;;LCS
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100918.b\8260BW.m
Meth Date : 23-Sep-2010 15:11 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.378	6.378	(1.000)	213162	50.0000	
* 36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	268074	50.0000	
* 47 Chlorobenzene-d5	117	10.138	10.133	(1.000)	256240	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.455	12.450	(1.000)	162334	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.986)	95209	49.9713	49.97
$ 35 1,2-Dichloroethane-d4	65	6.665	6.660	(1.045)	154382	49.6254	49.62
$ 48 Toluene-d8	98	8.700	8.700	(0.858)	370031	49.4921	49.49
$ 69 4-Bromofluorobenzene	95	11.304	11.299	(1.115)	159043	50.0929	50.09
31 1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	153046	52.5687	52.56
68 1,1,2,2-Tetrachloroethane	83	11.446	11.446	(0.919)	108484	48.8903	48.89
138 Freon TF	101	3.151	3.145	(0.494)	80129	47.8992	47.89
53 1,1,2-Trichloroethane	83	9.176	9.176	(0.905)	71981	48.1184	48.11
22 1,1-Dichloroethane	63	4.903	4.897	(0.769)	222835	50.8395	50.83
11 1,1-Dichloroethene	96	3.119	3.114	(0.489)	83616	53.0909	53.09
90 1,2,4-Trichlorobenzene	180	14.458	14.453	(1.161)	135110	52.6556	52.65
89 1,2-Dibromo-3-Chloropropane	75	13.621	13.621	(1.094)	22561	49.4116	49.41
57 1,2-Dibromoethane	107	9.673	9.667	(0.954)	89151	50.1672	50.16
88 1,2-Dichlorobenzene	146	12.847	12.847	(1.031)	217163	51.1086	51.10
33 1,2-Dichloroethane	62	6.749	6.749	(0.941)	189350	49.3089	49.30
42 1,2-Dichloropropane	63	7.669	7.669	(1.069)	112756	51.6115	51.61
83 1,3-Dichlorobenzene	146	12.387	12.387	(0.995)	216379	51.4865	51.48
84 1,4-Dichlorobenzene	146	12.476	12.476	(1.002)	228398	50.5541	50.55

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091803.D
Report Date: 23-Sep-2010 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.904)	119058	94.2644	94.26
52	2-Hexanone	43	9.442	9.437	(0.931)	169708	101.937	101.93
45	4-Methyl-2-Pentanone	43	8.611	8.611	(0.849)	259904	99.4782	99.47
10	Acetone	43	3.245	3.239	(0.509)	87969	109.405	109.40
37	Benzene	78	6.718	6.718	(0.937)	364455	50.3046	50.30
39	Bromodichloromethane	83	7.973	7.968	(1.112)	135848	53.5399	53.53
66	Bromoform	173	10.980	10.975	(1.083)	65598	48.4190	48.41
6	Bromomethane	94	2.068	2.068	(0.324)	80311	52.3164	52.31
19	Carbon Disulfide	76	3.381	3.381	(0.530)	467966	109.403	109.40
34	Carbon Tetrachloride	117	6.477	6.472	(0.903)	124608	47.8360	47.83
59	Chlorobenzene	112	10.164	10.164	(1.003)	265521	49.8788	49.87
7	Chloroethane	64	2.193	2.193	(0.344)	83950	51.3339	51.33
28	Chloroform	83	6.100	6.100	(0.957)	190823	50.3566	50.35
3	Chloromethane	50	1.623	1.623	(0.255)	186443	51.1017	51.10
27	cis-1,2-Dichloroethene	96	5.687	5.682	(0.892)	96634	49.3554	49.35
46	cis-1,3-Dichloropropene	75	8.433	8.428	(1.176)	153959	49.3400	49.33
141	Cyclohexane	56	6.336	6.336	(0.993)	176584	46.4356	46.43
55	Dibromochloromethane	129	9.563	9.563	(0.943)	92723	52.7918	52.79
2	Dichlorodifluoromethane	85	1.435	1.440	(0.225)	115429	48.7104	48.71
61	Ethylbenzene	106	10.279	10.274	(1.014)	135811	53.2858	53.28
67	Isopropylbenzene	105	11.153	11.153	(1.100)	359793	49.5019	49.50
146	Methyl Acetate	43	3.742	3.742	(0.587)	172938	48.5185	48.51
17	Methylene Chloride	84	3.841	3.841	(0.602)	107420	49.3692	49.36
18	Methyl tert-butyl ether	73	4.338	4.333	(0.680)	310249	51.7447	51.74
147	Methylcyclohexane	83	7.628	7.628	(1.063)	103554	47.3205	47.32
64	Styrene	104	10.802	10.797	(1.066)	314588	52.6316	52.63
56	Tetrachloroethene	164	9.312	9.312	(0.918)	78304	50.6745	50.67
50	Toluene	91	8.768	8.763	(0.865)	398758	50.5755	50.57
20	trans-1,2-Dichloroethene	96	4.280	4.275	(0.671)	96808	51.3539	51.35
51	trans-1,3-Dichloropropene	75	8.998	8.993	(0.888)	137253	48.5077	48.50
38	Trichloroethene	130	7.439	7.434	(1.037)	90403	51.4036	51.40
8	Trichlorofluoromethane	101	2.481	2.481	(0.389)	180820	53.6735	53.67
5	Vinyl Chloride	62	1.728	1.728	(0.271)	142906	53.5352	53.53
62	m,p-Xylenes	106	10.400	10.394	(1.026)	333186	105.778	105.77
63	o-Xylene	106	10.787	10.787	(1.064)	168077	51.5095	51.50

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091803.D
Date : 18-SEP-2010 13:00
Client ID: VLCSW-091810
Sample Info: VLCSW-091810;VLCSW-091810;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i

Operator: PC
Column diameter: 0.18

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091804.D
Report Date: 23-Sep-2010 15:11

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100918.b\D091804.D
Lab Smp Id: VLCSDW-091810 Client Smp ID: VLCSDW-091810
Inj Date : 18-SEP-2010 13:24 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VLCSDW-091810;VLCSDW-091810;3;;LCSD
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100918.b\8260BW.m
Meth Date : 23-Sep-2010 15:11 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.378	6.378	(1.000)	218254	50.0000	
* 36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	275652	50.0000	
* 47 Chlorobenzene-d5	117	10.133	10.133	(1.000)	260624	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.450	12.450	(1.000)	164561	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.986)	97636	50.0496	50.04
$ 35 1,2-Dichloroethane-d4	65	6.660	6.660	(1.044)	153610	48.2252	48.22
$ 48 Toluene-d8	98	8.700	8.700	(0.859)	371700	48.8790	48.87
$ 69 4-Bromofluorobenzene	95	11.299	11.299	(1.115)	159898	49.5150	49.51
31 1,1,1-Trichloroethane	97	6.283	6.283	(0.985)	161376	54.1367	54.13
68 1,1,2,2-Tetrachloroethane	83	11.446	11.446	(0.919)	112048	49.8131	49.81
138 Freon TF	101	3.151	3.145	(0.494)	85601	49.8423	49.84
53 1,1,2-Trichloroethane	83	9.176	9.176	(0.906)	73873	48.5525	48.55
22 1,1-Dichloroethane	63	4.897	4.897	(0.768)	231441	51.5710	51.57
11 1,1-Dichloroethene	96	3.119	3.114	(0.489)	88842	55.0930	55.09
90 1,2,4-Trichlorobenzene	180	14.453	14.453	(1.161)	133484	51.3179	51.31
89 1,2-Dibromo-3-Chloropropane	75	13.621	13.621	(1.094)	23253	50.2035	50.20
57 1,2-Dibromoethane	107	9.673	9.667	(0.955)	90604	50.1272	50.12
88 1,2-Dichlorobenzene	146	12.847	12.847	(1.032)	216865	50.3478	50.34
33 1,2-Dichloroethane	62	6.749	6.749	(0.941)	193867	49.0973	49.09
42 1,2-Dichloropropane	63	7.669	7.669	(1.069)	115197	51.2792	51.27
83 1,3-Dichlorobenzene	146	12.387	12.387	(0.995)	217421	51.0343	51.03
84 1,4-Dichlorobenzene	146	12.476	12.476	(1.002)	227775	49.7339	49.73

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091804.D
Report Date: 23-Sep-2010 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
24	2-Butanone	43	5.766	5.766	(0.904)	119437	92.3582	92.35
52	2-Hexanone	43	9.443	9.437	(0.932)	172046	101.603	101.60
45	4-Methyl-2-Pentanone	43	8.606	8.611	(0.849)	267741	100.754	100.75
10	Acetone	43	3.245	3.239	(0.509)	92430	112.478	112.47
37	Benzene	78	6.718	6.718	(0.937)	377181	50.6300	50.62
39	Bromodichloromethane	83	7.968	7.968	(1.111)	140145	53.7150	53.71
66	Bromoform	173	10.975	10.975	(1.083)	65928	47.8813	47.88
6	Bromomethane	94	2.073	2.068	(0.325)	82289	52.3543	52.35
19	Carbon Disulfide	76	3.381	3.381	(0.530)	493067	112.582	112.58
34	Carbon Tetrachloride	117	6.472	6.472	(0.902)	132231	49.2895	49.28
59	Chlorobenzene	112	10.159	10.164	(1.003)	273565	50.5255	50.52
7	Chloroethane	64	2.193	2.193	(0.344)	86996	51.9554	51.95
28	Chloroform	83	6.100	6.100	(0.957)	194887	50.2292	50.22
3	Chloromethane	50	1.623	1.623	(0.255)	194325	52.0112	52.01
27	cis-1,2-Dichloroethene	96	5.687	5.682	(0.892)	99341	49.5543	49.55
46	cis-1,3-Dichloropropene	75	8.428	8.428	(1.175)	162133	50.4966	50.49
141	Cyclohexane	56	6.336	6.336	(0.993)	186316	47.7558	47.75
55	Dibromochloromethane	129	9.563	9.563	(0.944)	96710	54.1356	54.13
2	Dichlorodifluoromethane	85	1.435	1.440	(0.225)	123694	50.9361	50.93
61	Ethylbenzene	106	10.274	10.274	(1.014)	136747	52.7505	52.75
67	Isopropylbenzene	105	11.153	11.153	(1.101)	360848	48.8402	48.84
146	Methyl Acetate	43	3.747	3.742	(0.588)	178949	49.0337	49.03
17	Methylene Chloride	84	3.851	3.841	(0.604)	111727	50.1507	50.15
18	Methyl tert-butyl ether	73	4.338	4.333	(0.680)	315264	51.3544	51.35
147	Methylcyclohexane	83	7.628	7.628	(1.063)	107457	47.7141	47.71
64	Styrene	104	10.802	10.797	(1.066)	318212	52.3424	52.34
56	Tetrachloroethene	164	9.312	9.312	(0.919)	81117	51.6120	51.61
50	Toluene	91	8.768	8.763	(0.865)	410572	51.1979	51.19
20	trans-1,2-Dichloroethene	96	4.275	4.275	(0.670)	102256	52.9784	52.97
51	trans-1,3-Dichloropropene	75	8.993	8.993	(0.887)	143576	49.8174	49.81
38	Trichloroethene	130	7.434	7.434	(1.036)	94988	52.5258	52.52
8	Trichlorofluoromethane	101	2.481	2.481	(0.389)	192137	55.7022	55.70
5	Vinyl Chloride	62	1.728	1.728	(0.271)	149576	54.7265	54.72
62	m,p-Xylenes	106	10.394	10.394	(1.026)	340629	106.322	106.32
63	o-Xylene	106	10.787	10.787	(1.065)	169312	51.0152	51.01

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091804.D
Date : 18-SEP-2010 13:24
Client ID: VLCSDW-091810
Sample Info: VLCSDW-091810;VLCSDW-091810;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091806.D
Report Date: 23-Sep-2010 15:11

ALS Laboratory Group

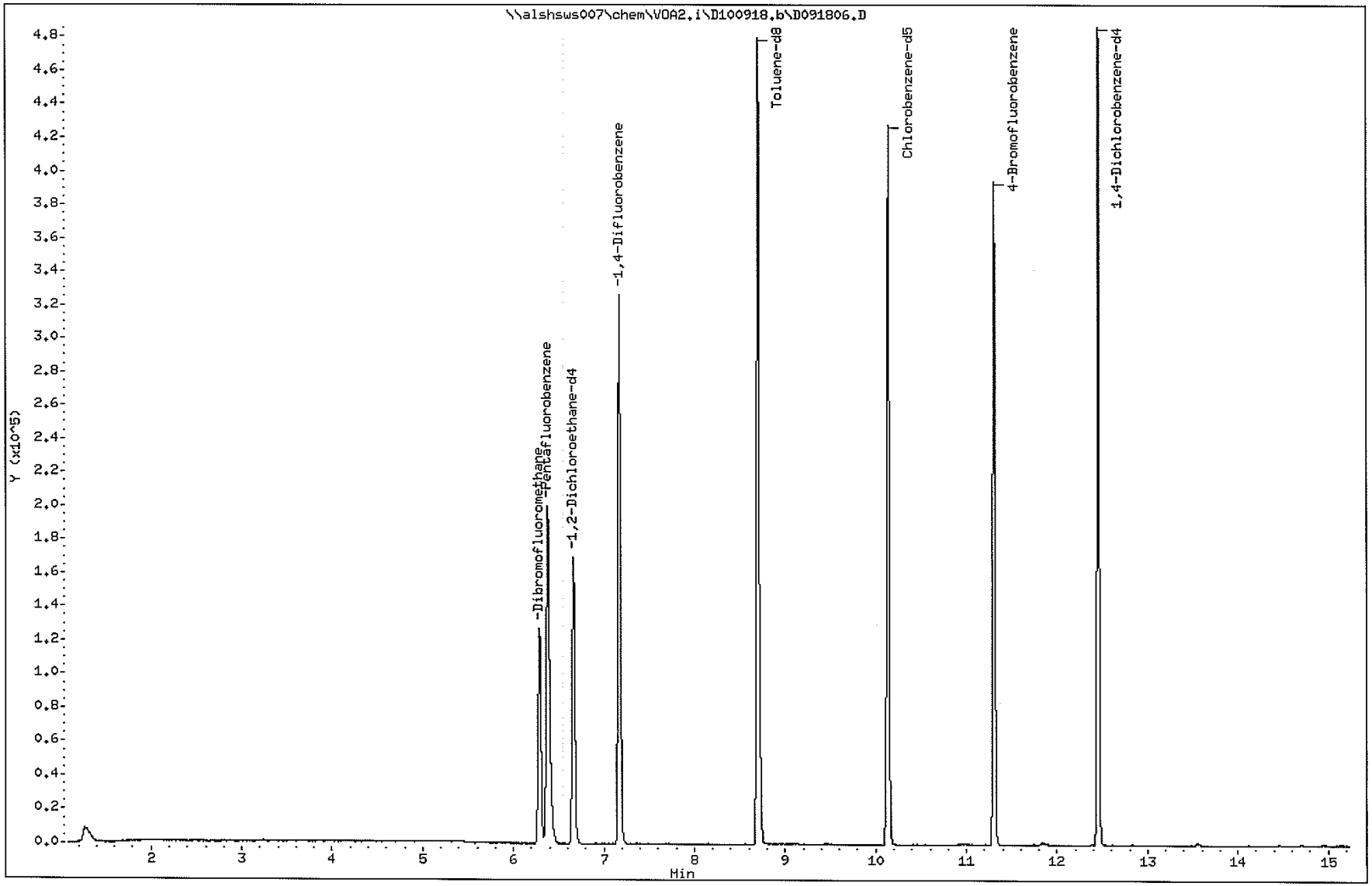
Data file : \\alshsws007\chem\VOA2.i\D100918.b\D091806.D
Lab Smp Id: VBLKW-091810 Client Smp ID: VBLKW-091810
Inj Date : 18-SEP-2010 14:36 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VBLKW-091810;VBLKW-091810;3;;BLANK
Misc Info : 100918V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100918.b\8260BW.m
Meth Date : 23-Sep-2010 15:11 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.378	6.378	(1.000)	180157	50.0000	
* 36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	231548	50.0000	
* 47 Chlorobenzene-d5	117	10.138	10.133	(1.000)	212062	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.450	12.450	(1.000)	123505	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.986)	83885	52.0938	52.09
$ 35 1,2-Dichloroethane-d4	65	6.660	6.660	(1.044)	142626	54.2456	54.24
$ 48 Toluene-d8	98	8.700	8.700	(0.858)	311191	50.2931	50.29
$ 69 4-Bromofluorobenzene	95	11.305	11.299	(1.115)	126520	48.1509	48.15

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091806.D
Date : 18-SEP-2010 14:36
Client ID: VBLKW-091810
Instrument: VOA2.i
Sample Info: VBLKW-091810;VBLKW-091810;3;;BLANK
Purge Volume: 5.0
Operator: PC
Column phase: DB624
Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091812.D
Report Date: 23-Sep-2010 15:11

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Data file : \\alshsws007\chem\VOA2.i\D100918.b\D091812.D
Lab Smp Id: 1009543-05A Client Smp ID: 1009543-05A
Inj Date : 18-SEP-2010 17:08 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : 1009543-05A;1009543-05A;;;
Misc Info : 100918V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100918.b\8260BW.m
Meth Date : 23-Sep-2010 15:11 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

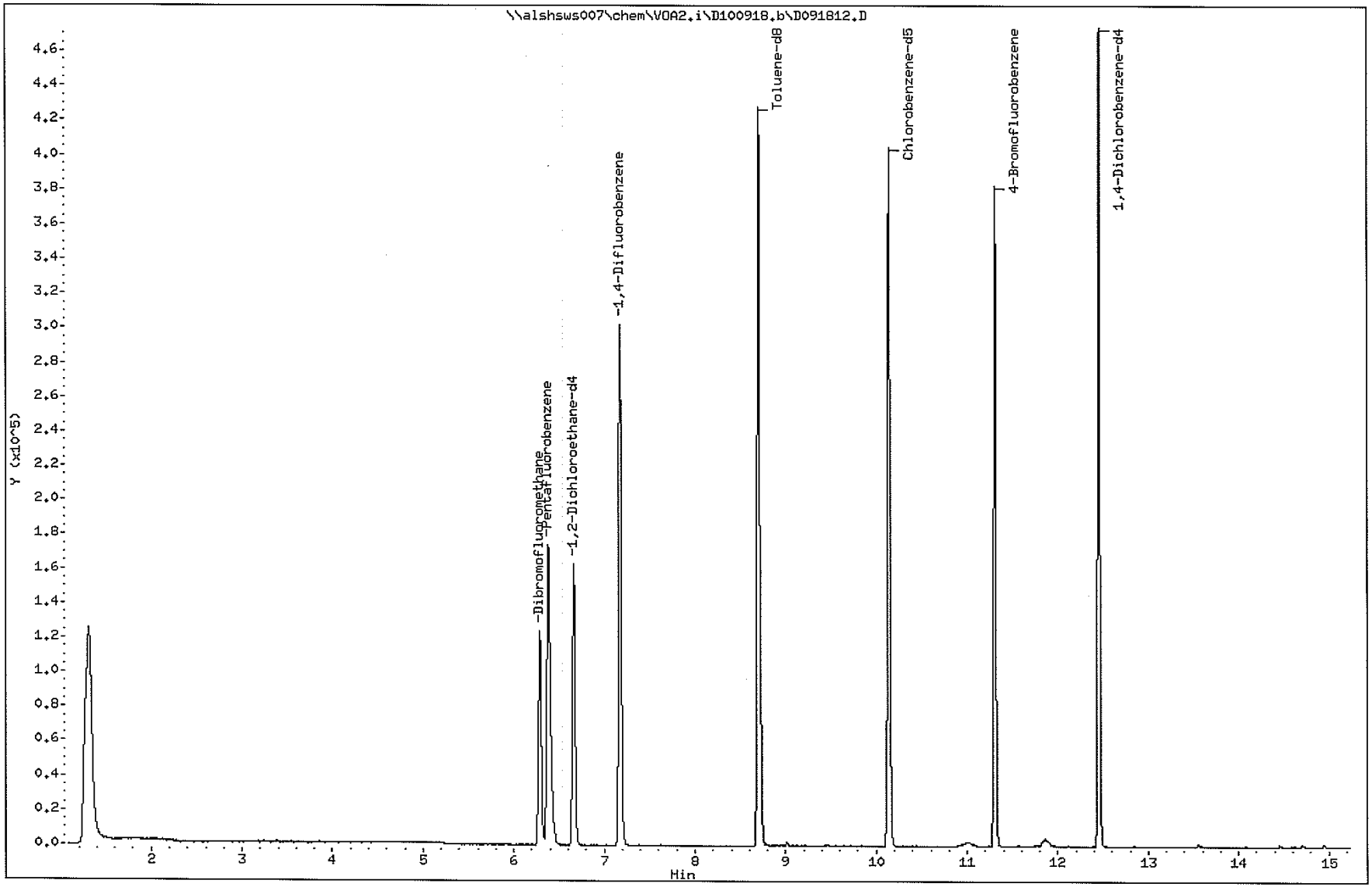
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.378	(1.000)	173685	50.0000	
* 36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	227304	50.0000	
* 47 Chlorobenzene-d5	117	10.138	10.133	(1.000)	207899	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.455	12.450	(1.000)	123342	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.985)	82504	53.1453	53.14
$ 35 1,2-Dichloroethane-d4	65	6.660	6.660	(1.043)	138881	54.7895	54.78
$ 48 Toluene-d8	98	8.700	8.700	(0.858)	295468	48.7082	48.70
$ 69 4-Bromofluorobenzene	95	11.304	11.299	(1.115)	120189	46.6574	46.65

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091812.D
Date : 18-SEP-2010 17:08
Client ID: 1009543-05A
Sample Info: 1009543-05A;1009543-05A;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091813.D
Report Date: 23-Sep-2010 15:11

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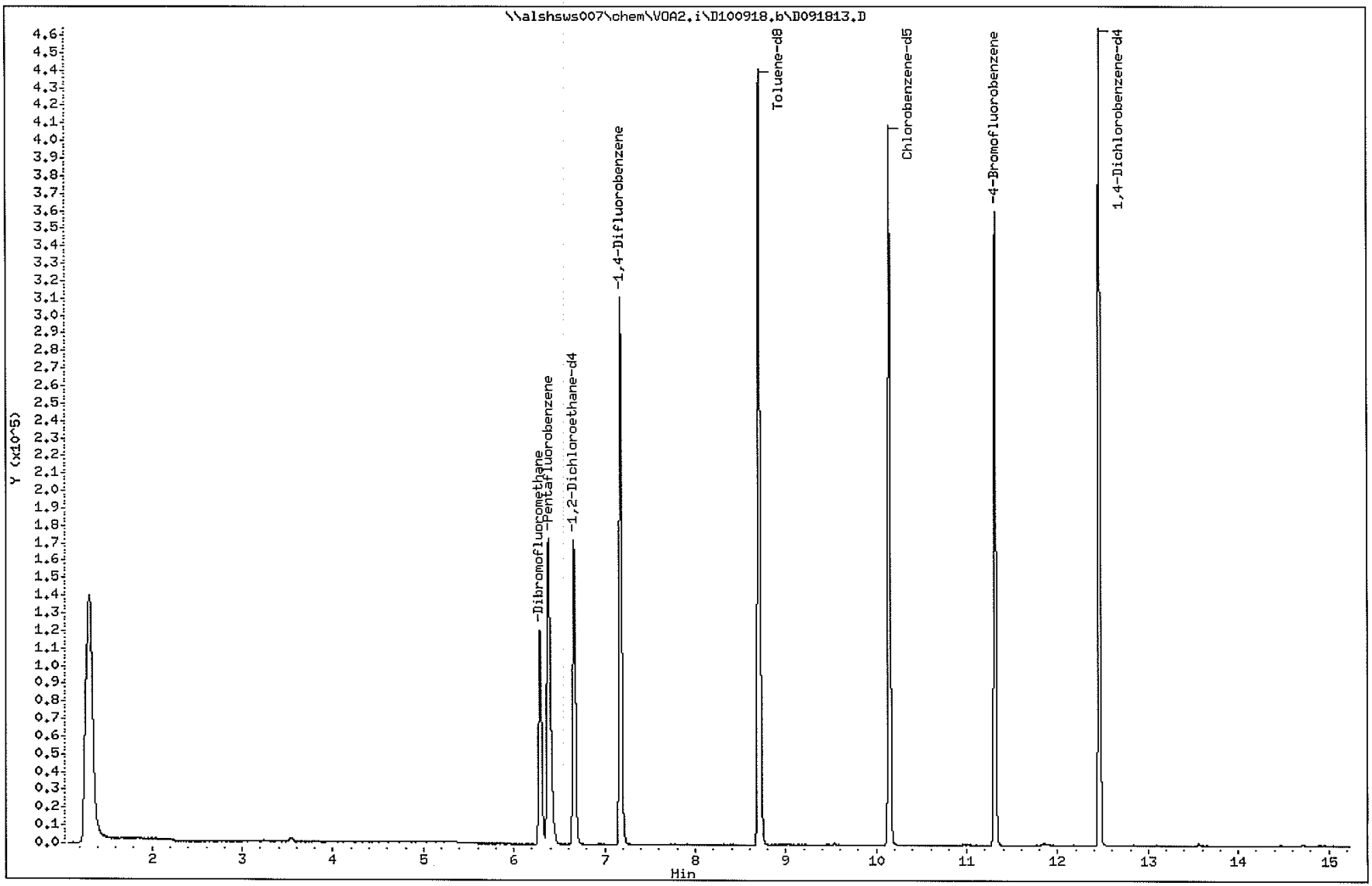
Data file : \\alshsws007\chem\VOA2.i\D100918.b\D091813.D
Lab Smp Id: 1009543-08A Client Smp ID: 1009543-08A
Inj Date : 18-SEP-2010 17:31 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : 1009543-08A;1009543-08A;;;
Misc Info : 100918V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100918.b\8260BW.m
Meth Date : 23-Sep-2010 15:11 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.378	(1.000)	167552	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.173	(1.000)	216168	50.0000	
* 47 Chlorobenzene-d5	117	10.143	10.133	(1.000)	201183	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.460	12.450	(1.000)	117125	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.985)	79882	53.3399	53.33
$ 35 1,2-Dichloroethane-d4	65	6.665	6.660	(1.044)	142856	58.4206	58.42
$ 48 Toluene-d8	98	8.705	8.700	(0.858)	287766	49.0222	49.02
$ 69 4-Bromofluorobenzene	95	11.310	11.299	(1.115)	114835	46.0671	46.06

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091813.D
Date : 18-SEP-2010 17:31
Client ID: 1009543-08A
Instrument: VOA2.i
Sample Info: 1009543-08A;1009543-08A;;;
Purge Volume: 5.0
Operator: PC
Column phase: DB624
Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091814.D
Report Date: 23-Sep-2010 15:11

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Data file : \\alshsws007\chem\VOA2.i\D100918.b\D091814.D
Lab Smp Id: 1009543-11A Client Smp ID: 1009543-11A
Inj Date : 18-SEP-2010 17:55 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : 1009543-11A;1009543-11A;;;
Misc Info : 100918V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100918.b\8260BW.m
Meth Date : 23-Sep-2010 15:11 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

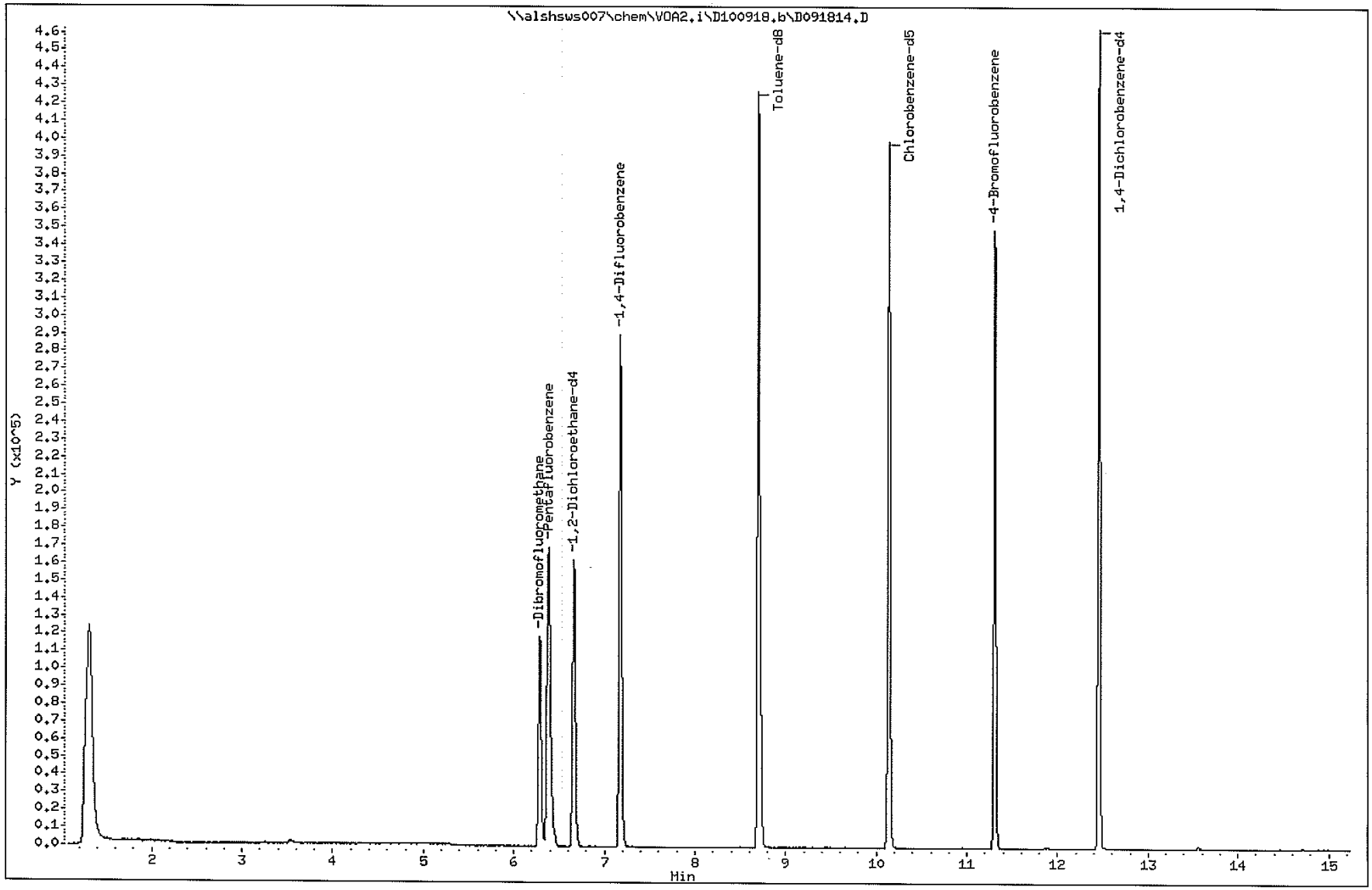
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.378	(1.000)	162667	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.173	(1.000)	212073	50.0000	
* 47 Chlorobenzene-d5	117	10.138	10.133	(1.000)	193691	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.455	12.450	(1.000)	114795	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.985)	77722	53.4561	53.45
$ 35 1,2-Dichloroethane-d4	65	6.665	6.660	(1.044)	140087	59.0086	59.00
$ 48 Toluene-d8	98	8.700	8.700	(0.858)	276985	49.0107	49.01
$ 69 4-Bromofluorobenzene	95	11.304	11.299	(1.115)	109511	45.6306	45.63

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091814.D
Date : 18-SEP-2010 17:55
Client ID: 1009543-11A
Sample Info: 1009543-11A;1009543-11A;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i

Operator: PC
Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091818.D
Report Date: 23-Sep-2010 15:11

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100918.b\D091818.D
Lab Smp Id: 1009543-13A Client Smp ID: 1009543-13A
Inj Date : 18-SEP-2010 19:31 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : 1009543-13A;1009543-13A;;;
Misc Info : 100918V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100918.b\8260BW.m
Meth Date : 23-Sep-2010 15:11 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

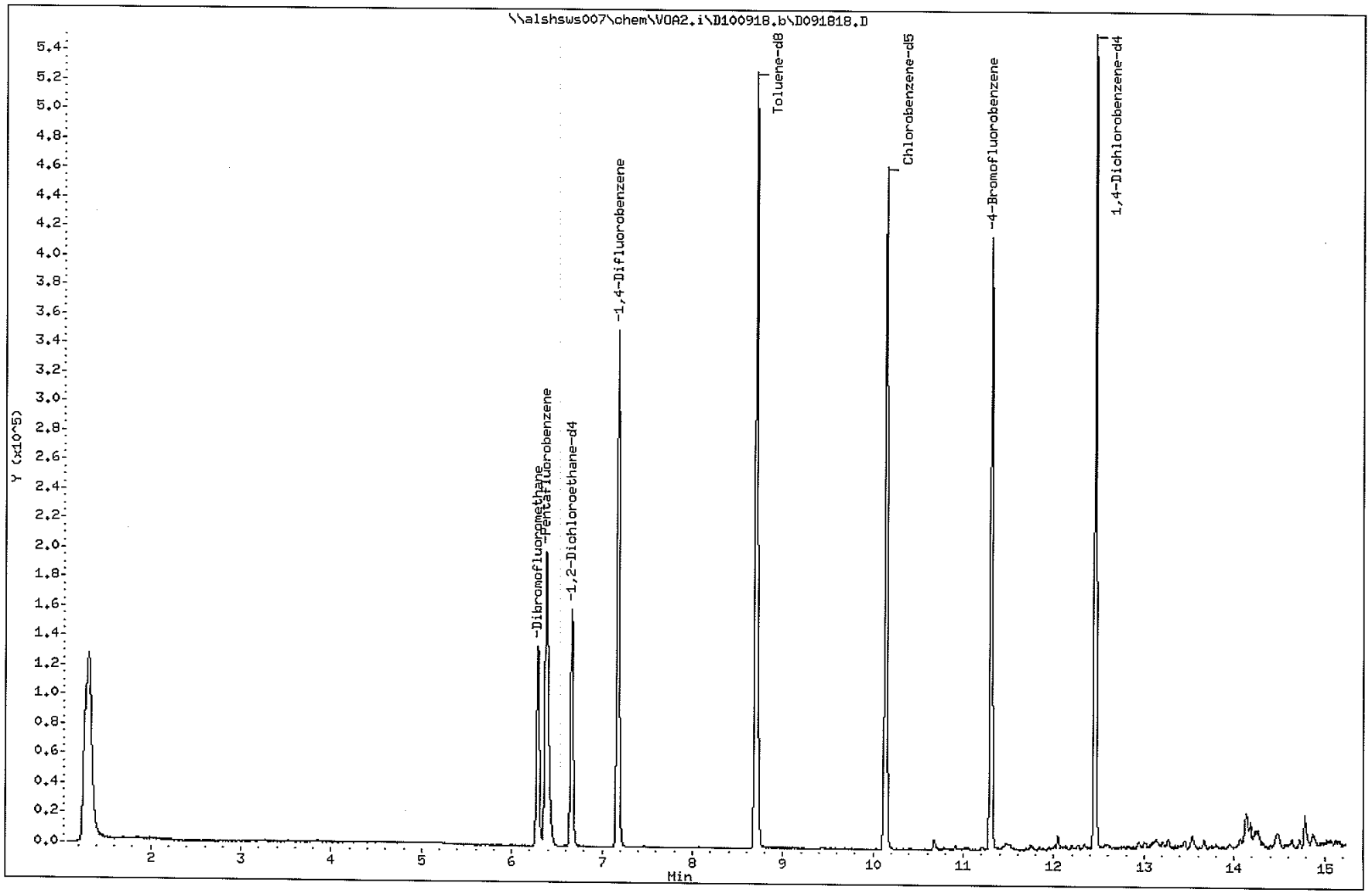
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.378	(1.000)	203734	50.0000	
* 36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	262482	50.0000	
* 47 Chlorobenzene-d5	117	10.138	10.133	(1.000)	248988	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.450	12.450	(1.000)	146838	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.985)	91342	50.1602	50.16
$ 35 1,2-Dichloroethane-d4	65	6.660	6.660	(1.043)	134197	45.1332	45.13
$ 48 Toluene-d8	98	8.700	8.700	(0.858)	358351	49.3259	49.32
$ 69 4-Bromofluorobenzene	95	11.299	11.299	(1.115)	141959	46.0143	46.01

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091818.D
Date : 18-SEP-2010 19:31
Client ID: 1009543-13A
Sample Info: 1009543-13A;1009543-13A;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i

Operator: PC
Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091819.D
Report Date: 23-Sep-2010 15:11

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100918.b\D091819.D
Lab Smp Id: 1009543-14A Client Smp ID: 1009543-14A
Inj Date : 18-SEP-2010 19:55 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : 1009543-14A;1009543-14A;;;
Misc Info : 100918V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100918.b\8260BW.m
Meth Date : 23-Sep-2010 15:11 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

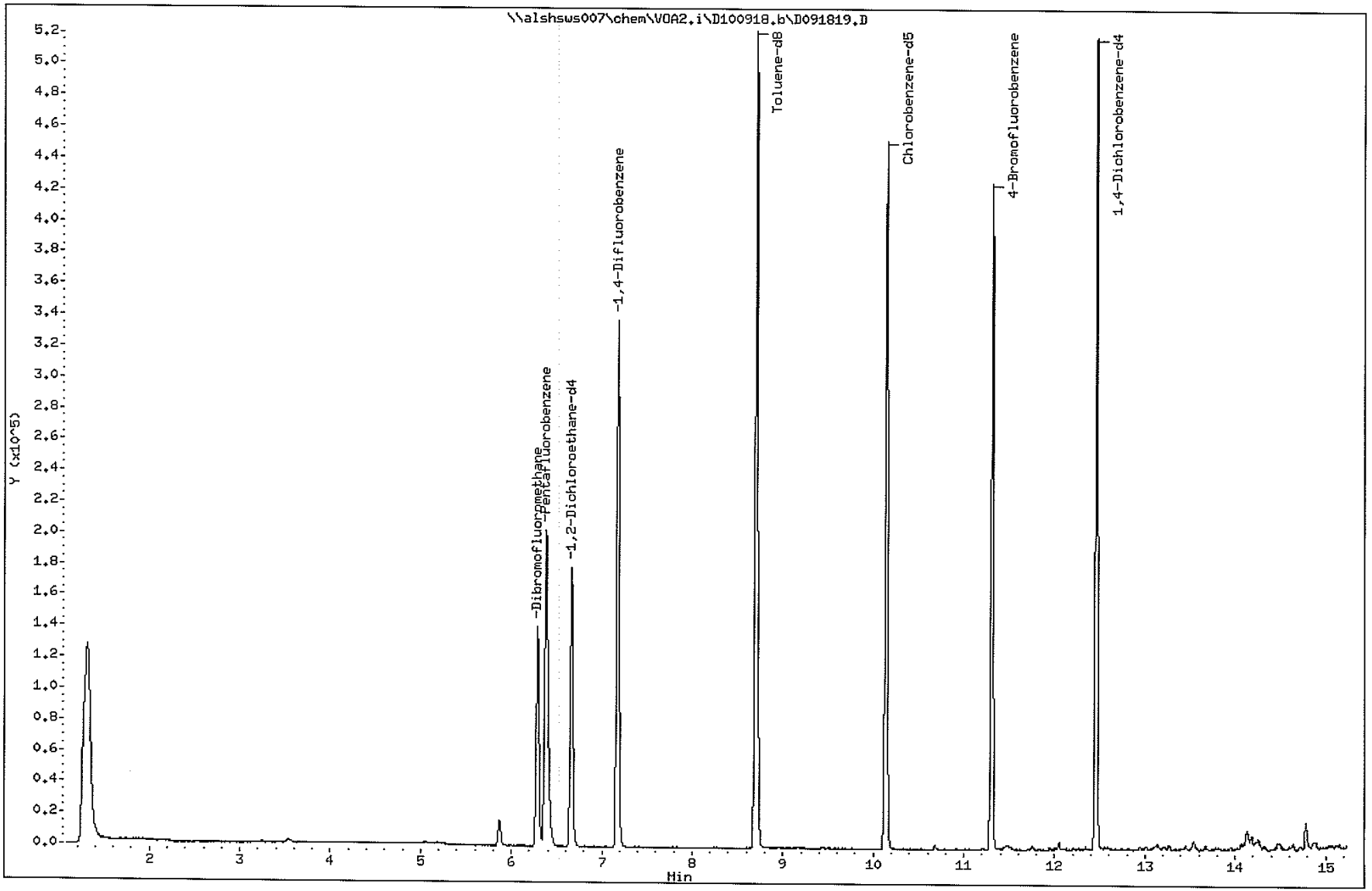
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.378	(1.000)	198676	50.0000	
* 36 1,4-Difluorobenzene	114	7.173	7.173	(1.000)	255984	50.0000	
* 47 Chlorobenzene-d5	117	10.133	10.133	(1.000)	238885	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.455	12.450	(1.000)	142554	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.289	(0.985)	92771	52.2419	52.24
$ 35 1,2-Dichloroethane-d4	65	6.660	6.660	(1.043)	147679	50.9320	50.93
$ 48 Toluene-d8	98	8.700	8.700	(0.859)	353108	50.6598	50.65
$ 69 4-Bromofluorobenzene	95	11.305	11.299	(1.116)	141791	47.9036	47.90

Data File: \\alshsws007\chem\VOA2.i\D100918.b\D091819.D
Date : 18-SEP-2010 19:55
Client ID: 1009543-14A
Sample Info: 1009543-14A;1009543-14A;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18



ALS Laboratory Group — **MS VOA 2 - Instrument Run Log** — **Logbook #23118**

Sequence #: D092110	IS ID: 23210-20-2	Method ID: 8260 / 624	SOP ID: MSV-001 / MSV-002
Cal STD ID: 23210-19-1/20-1	ICV StD ID N/A	LCS/MS ID: 23210-19-1/20-1	Surr. ID: 23210-20-3

File ID	WO #	SX #	pH	Soil/ Water	Sample-Vol Wt (ml or g)	Purge Vol.-mL	Dil. Fac.	Inj. Date	Inj. Time	Status	Comments
D092101	BFB	50ml	–	–	–	–	–	9/21/10	10:03	✓	
02	VSTD050	50ml	–	metric	50	5	X1		10:19	✓	
03	VSW	VSW-92110	–						10:42	✓	
04	VSDW	VSDW-92110	–						11:06	✓	
05	VPEM	VPEM-92110	–	M	1.0ml/50ml		X1.25		11:54	✓	
06	VPEW	VPEW-92110	–	W	50		X1		12:17	✓	
07	1009543	02A	C2						12:41	✓	
08		16A							13:04	✓	
09	1009619	02A							13:29	✓	
10		04A							13:54	✓	
11		05A							14:18	✓	
12		07A							14:43	✓	
13		09A							15:07	✓	
14		11A							15:30	✓	
15	1009425	06A	–	M	500ml/50ml		X250		15:55	✓	(147)
16		06AMS	–						16:19	✓	
17		06AMSD	–						16:42	✓	
18	1009630	01A	C2	W	50		X1		17:06	✓	
19	1009620	02A							17:30	✓	
20		05A							17:54	✓	
21		06A							18:18	✓	
22		08A							18:41	✓	
23		09A							19:05	✓	
24		11A							19:28	✓	
25		12A							19:52	✓	
26		14A							20:16	✓	
27	1009621	02A							20:39	✓	
28		04A							21:03	✓	

Pentafluorobenzene:	238465	Chlorobenzene-d_5:	289804	BFB Ion 95 Response:	31160
1,4-Difluorobenzene:	304561	1,4-Dichlorobenzene-d_4:	181944	Analyst:	[illegible]

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FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date: 09/21/10 Time: 1019

Lab File ID: D092102 Init. Calib. Date(s): 09/17/10 09/17/10

Heated Purge: (Y/N) N Init. Calib. Times: 1316 1601

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Dichlorodifluoromethane	47.09	50.00	LINR	5.8	20.0
Chloromethane	52.75	50.00	LINR	5.5	20.0
Vinyl Chloride	53.74	50.00	AVRG	7.5	20.0
Bromomethane	52.89	50.00	AVRG	5.8	20.0
Chloroethane	53.09	50.00	AVRG	6.2	20.0
Trichlorofluoromethane	51.53	50.00	AVRG	3.1	20.0
Acetone	106.07	100.00	LINR	6.1	20.0
1,1-Dichloroethene	53.25	50.00	AVRG	6.5	20.0
Methylene Chloride	52.62	50.00	AVRG	5.2	20.0
Carbon Disulfide	106.94	100.00	AVRG	6.9	20.0
trans-1,2-Dichloroethene	52.76	50.00	AVRG	5.5	20.0
1,1-Dichloroethane	51.78	50.00	AVRG	3.6	20.0
2-Butanone	89.43	100.00	AVRG	10.6	20.0
cis-1,2-Dichloroethene	51.05	50.00	AVRG	2.1	20.0
Chloroform	50.13	50.00	AVRG	0.3	20.0
1,1,1-Trichloroethane	52.17	50.00	AVRG	4.3	20.0
1,2-Dichloroethane	48.09	50.00	AVRG	3.8	20.0
Carbon Tetrachloride	46.09	50.00	LINR	7.8	20.0
Benzene	51.57	50.00	AVRG	3.1	20.0
Trichloroethene	53.50	50.00	AVRG	7.0	20.0
Bromodichloromethane	52.26	50.00	AVRG	4.5	20.0
1,2-Dichloropropane	51.99	50.00	AVRG	4.0	20.0
4-Methyl-2-Pentanone	93.33	100.00	AVRG	6.7	20.0
cis-1,3-Dichloropropene	50.01	50.00	LINR	0.0	20.0
Toluene	52.06	50.00	AVRG	4.1	20.0
trans-1,3-Dichloropropene	48.42	50.00	LINR	3.2	20.0
2-Hexanone	92.83	100.00	AVRG	7.2	20.0
1,1,2-Trichloroethane	49.18	50.00	AVRG	1.6	20.0
Dibromochloromethane	52.38	50.00	AVRG	4.8	20.0
Tetrachloroethene	51.60	50.00	AVRG	3.2	20.0
1,2-Dibromoethane	50.13	50.00	AVRG	0.3	20.0
Chlorobenzene	51.71	50.00	AVRG	3.4	20.0
Ethylbenzene	54.78	50.00	AVRG	9.6	20.0
m,p-Xylenes	109.68	100.00	AVRG	9.7	20.0
o-Xylene	53.77	50.00	AVRG	7.5	20.0
Styrene	53.70	50.00	AVRG	7.4	20.0
Bromoform	46.92	50.00	2ORDR	6.2	20.0

FORM VII VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA2 Calibration Date: 09/21/10 Time: 1019

Lab File ID: D092102 Init. Calib. Date(s): 09/17/10 09/17/10

Heated Purge: (Y/N) N Init. Calib. Times: 1316 1601

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Isopropylbenzene	50.36	50.00	LINR	0.7	20.0
1,1,2,2-Tetrachloroethane	49.66	50.00	AVRG	0.7	20.0
1,3-Dichlorobenzene	53.97	50.00	AVRG	7.9	20.0
1,4-Dichlorobenzene	52.49	50.00	AVRG	5.0	20.0
1,2-Dichlorobenzene	52.33	50.00	AVRG	4.7	20.0
1,2-Dibromo-3-Chloropropane	44.69	50.00	2ORDR	10.6	20.0
1,2,4-Trichlorobenzene	54.14	50.00	AVRG	8.3	20.0
Methyl tert-butyl ether	50.74	50.00	AVRG	1.5	20.0
Methylcyclohexane	48.88	50.00	2ORDR	2.2	20.0
Cyclohexane	46.34	50.00	LINR	7.3	20.0
Freon TF	47.47	50.00	LINR	5.1	20.0
Methyl Acetate	48.40	50.00	AVRG	3.2	20.0
Dibromofluoromethane	50.24	50.00	AVRG	0.5	20.0
1,2-Dichloroethane-d4	47.75	50.00	AVRG	4.5	20.0
Toluene-d8	49.53	50.00	AVRG	0.9	20.0
4-Bromofluorobenzene	48.96	50.00	AVRG	2.1	20.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): D092102 Date Analyzed: 09/21/10

Instrument ID: VOA2 Time Analyzed: 1019

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	238465	6.38	304561	7.18	289804	10.14
	UPPER LIMIT	476930	6.88	609122	7.68	579608	10.64
	LOWER LIMIT	119233	5.88	152281	6.68	144902	9.64
	CLIENT SAMPLE NO.						
01	VLCSW-092110	245240	6.38	311397	7.18	293684	10.14
02	VLCSDW-09211	243790	6.38	315540	7.18	295138	10.14
03	VBLKW-092110	209054	6.38	268434	7.18	245620	10.14
04	1009543-02A	190960	6.38	250683	7.18	232648	10.14
05	1009543-16A	184545	6.38	242568	7.18	226703	10.14
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): D092102 Date Analyzed: 09/21/10

Instrument ID: VOA2 Time Analyzed: 1019

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS4 (DCB) AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	181944		12.46									
	UPPER LIMIT	363888		12.96									
	LOWER LIMIT	90972		11.96									
	CLIENT SAMPLE NO.												
01	VLCSW-092110	187046		12.46									
02	VLCSDW-09211	186997		12.46									
03	VBLKW-092110	145756		12.47									
04	1009543-02A	135497		12.47									
05	1009543-16A	133803		12.47									
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (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.

Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092101.D

Date : 21-SEP-2010 10:03

Client ID: BFB

Instrument: VOA2.i

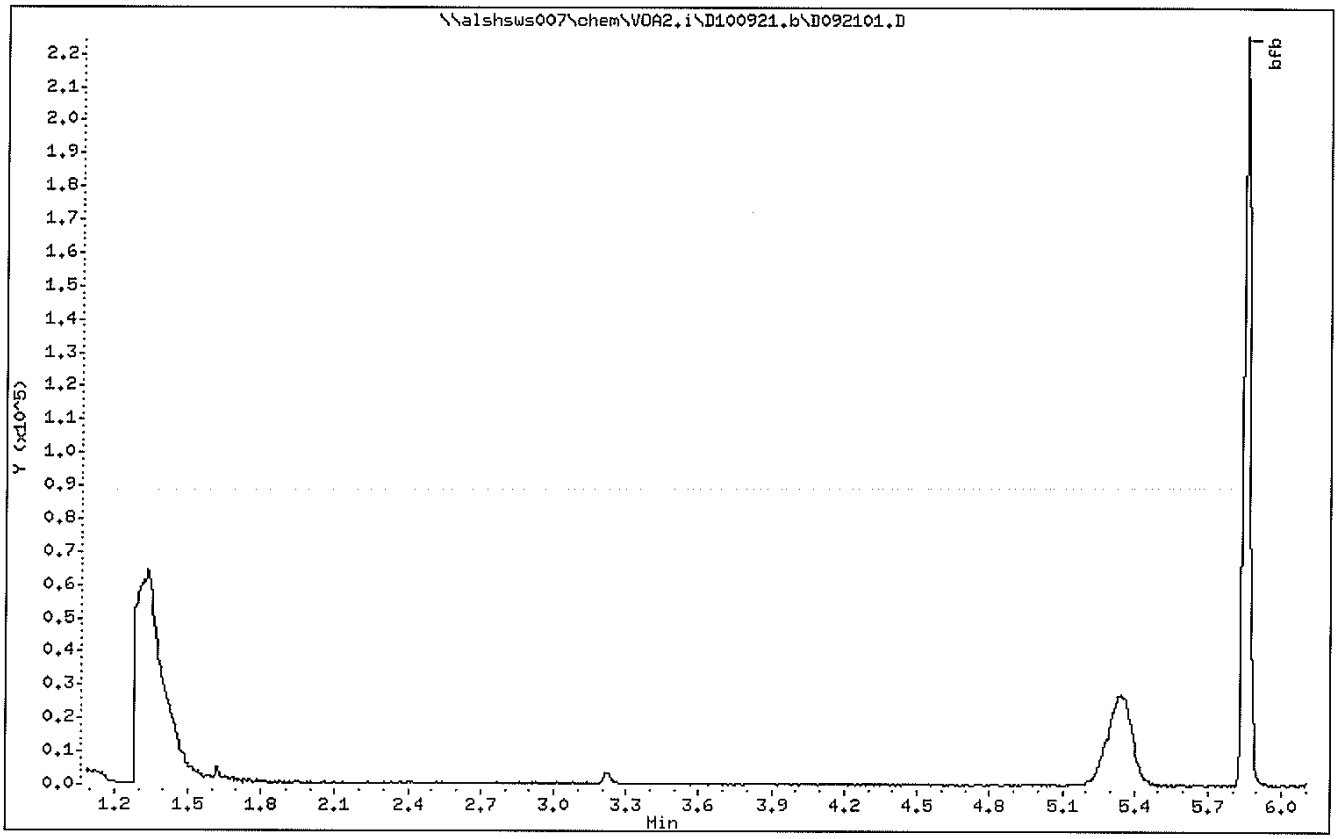
Sample Info: BFB;BFB;3;;

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092101.D

Date : 21-SEP-2010 10:03

Client ID: BFB

Instrument: VOA2.i

Sample Info: BFB;BFB;3;;

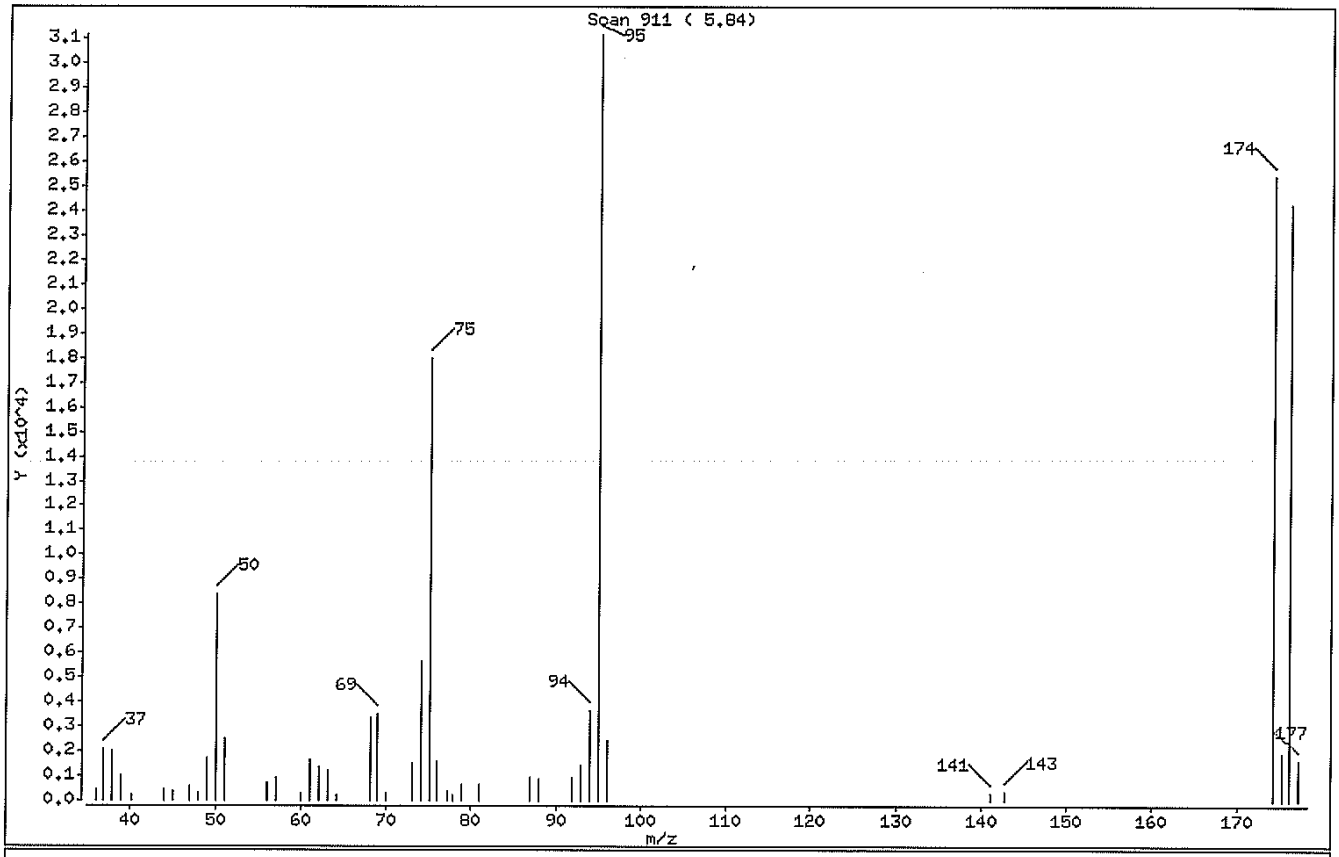
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.93
75	30.00 - 60.00% of mass 95	57.79
96	5.00 - 9.00% of mass 95	7.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.59
175	5.00 - 9.00% of mass 174	6.11 (7.49)
176	95.00 - 101.00% of mass 174	77.97 (95.56)
177	5.00 - 9.00% of mass 176	5.34 (6.85)

Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092101.D

Date : 21-SEP-2010 10:03

Client ID: BFB

Instrument: VOA2.i

Sample Info: BFB;BFB;3;;

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.18

Data File: D092101.D
Spectrum: Scan 911 (5.84)
Location of Maximum: 95.00
Number of points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	433	51.10	2493	73.00	1528	93.00	1420
37.00	2096	56.00	738	74.00	5657	94.00	3618
38.00	1975	57.00	952	75.10	18008	95.00	31160
39.10	987	60.00	269	76.00	1599	96.10	2448
40.20	240	61.10	1679	77.10	325	141.10	261
44.00	411	62.10	1373	77.90	220	142.80	371
45.10	336	63.00	1225	78.90	675	174.00	25424
47.00	539	64.10	210	80.90	677	175.00	1904
48.00	271	68.00	3371	86.90	965	176.00	24296
49.00	1692	69.00	3537	87.90	895	177.00	1664
50.00	8391	70.00	265	92.00	932		

Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092102.D
Report Date: 23-Sep-2010 15:14

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100921.b\D092102.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 21-SEP-2010 10:19 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VSTD050;VSTD050;2;;
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100921.b\8260BW.m
Meth Date : 23-Sep-2010 15:14 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.383	(1.000)	238465	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.178	(1.000)	304561	50.0000	
* 47 Chlorobenzene-d5	117	10.143	10.143	(1.000)	289804	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.460	12.460	(1.000)	181944	50.0000	
$ 30 Dibromofluoromethane	113	6.294	6.294	(0.986)	107090	50.0000	50.24
$ 35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.044)	166194	50.0000	47.75
$ 48 Toluene-d8	98	8.705	8.705	(0.858)	418879	50.0000	49.53
$ 69 4-Bromofluorobenzene	95	11.310	11.310	(1.115)	175841	50.0000	48.96
31 1,1,1-Trichloroethane	97	6.289	6.289	(0.985)	169935	50.0000	52.17
68 1,1,2,2-Tetrachloroethane	83	11.456	11.456	(0.919)	123508	50.0000	49.66
138 Freon TF	101	3.156	3.156	(0.494)	88782	50.0000	47.47
53 1,1,2-Trichloroethane	83	9.181	9.181	(0.905)	83221	50.0000	49.18
22 1,1-Dichloroethane	63	4.908	4.908	(0.769)	253912	50.0000	51.78
11 1,1-Dichloroethene	96	3.119	3.119	(0.489)	93826	50.0000	53.25
90 1,2,4-Trichlorobenzene	180	14.469	14.469	(1.161)	155728	50.0000	54.14
89 1,2-Dibromo-3-Chloropropane	75	13.637	13.637	(1.094)	22771	50.0000	44.69
57 1,2-Dibromoethane	107	9.678	9.678	(0.954)	100772	50.0000	50.13
88 1,2-Dichlorobenzene	146	12.858	12.858	(1.032)	249219	50.0000	52.33
33 1,2-Dichloroethane	62	6.754	6.754	(0.941)	209814	50.0000	48.09
42 1,2-Dichloropropane	63	7.675	7.675	(1.069)	129062	50.0000	51.99
83 1,3-Dichlorobenzene	146	12.398	12.398	(0.995)	254249	50.0000	53.97
84 1,4-Dichlorobenzene	146	12.487	12.487	(1.002)	265839	50.0000	52.49

Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092102.D
Report Date: 23-Sep-2010 15:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
24 2-Butanone	43	5.771	5.771	(0.904)	126362	100.000	89.43
52 2-Hexanone	43	9.448	9.448	(0.931)	174794	100.000	92.83
45 4-Methyl-2-Pentanone	43	8.616	8.616	(0.849)	275784	100.000	93.33
10 Acetone	43	3.245	3.245	(0.508)	95618	100.000	106.07
37 Benzene	78	6.723	6.723	(0.937)	424520	50.0000	51.57
39 Bromodichloromethane	83	7.973	7.973	(1.111)	150667	50.0000	52.26
66 Bromoform	173	10.985	10.985	(1.083)	71740	50.0000	46.92
6 Bromomethane	94	2.073	2.073	(0.325)	90834	50.0000	52.89
19 Carbon Disulfide	76	3.381	3.381	(0.530)	511744	100.000	106.94
34 Carbon Tetrachloride	117	6.477	6.477	(0.902)	136154	50.0000	46.09
59 Chlorobenzene	112	10.170	10.170	(1.003)	311362	50.0000	51.71
7 Chloroethane	64	2.193	2.193	(0.344)	97144	50.0000	53.09
28 Chloroform	83	6.100	6.100	(0.956)	212526	50.0000	50.13
3 Chloromethane	50	1.629	1.629	(0.255)	215401	50.0000	52.75
27 cis-1,2-Dichloroethene	96	5.687	5.687	(0.891)	111821	50.0000	51.05
46 cis-1,3-Dichloropropene	75	8.433	8.433	(1.175)	177369	50.0000	50.01
141 Cyclohexane	56	6.341	6.341	(0.993)	197112	50.0000	46.34
55 Dibromochloromethane	129	9.568	9.568	(0.943)	104060	50.0000	52.38
2 Dichlorodifluoromethane	85	1.445	1.445	(0.227)	124770	50.0000	47.09
61 Ethylbenzene	106	10.285	10.285	(1.014)	157926	50.0000	54.78
67 Isopropylbenzene	105	11.163	11.163	(1.101)	414323	50.0000	50.36
146 Methyl Acetate	43	3.742	3.742	(0.586)	193017	50.0000	48.40
17 Methylene Chloride	84	3.851	3.851	(0.603)	128090	50.0000	52.62
18 Methyl tert-butyl ether	73	4.338	4.338	(0.680)	340364	50.0000	50.74
147 Methylcyclohexane	83	7.633	7.633	(1.063)	121939	50.0000	48.88
64 Styrene	104	10.808	10.808	(1.065)	363083	50.0000	53.70
56 Tetrachloroethene	164	9.317	9.317	(0.919)	90194	50.0000	51.60
50 Toluene	91	8.773	8.773	(0.865)	464300	50.0000	52.06
20 trans-1,2-Dichloroethene	96	4.280	4.280	(0.671)	111269	50.0000	52.76
51 trans-1,3-Dichloropropene	75	9.003	9.003	(0.888)	154942	50.0000	48.42
38 Trichloroethene	130	7.439	7.439	(1.036)	106907	50.0000	53.50
8 Trichlorofluoromethane	101	2.486	2.486	(0.390)	194240	50.0000	51.53(T)
5 Vinyl Chloride	62	1.733	1.733	(0.272)	160486	50.0000	53.74
62 m,p-Xylenes	106	10.405	10.405	(1.026)	390760	100.000	109.68
63 o-Xylene	106	10.797	10.797	(1.064)	198443	50.0000	53.77

QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092102.D
Date : 21-SEP-2010 10:19
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18

Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092103.D
Report Date: 23-Sep-2010 15:14

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100921.b\D092103.D
Lab Smp Id: VLCSW-092110 Client Smp ID: VLCSW-092110
Inj Date : 21-SEP-2010 10:42 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : VLCSW-092110;VLCSW-092110;3;;LCS
Misc Info : ;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100921.b\8260BW.m
Meth Date : 23-Sep-2010 15:14 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

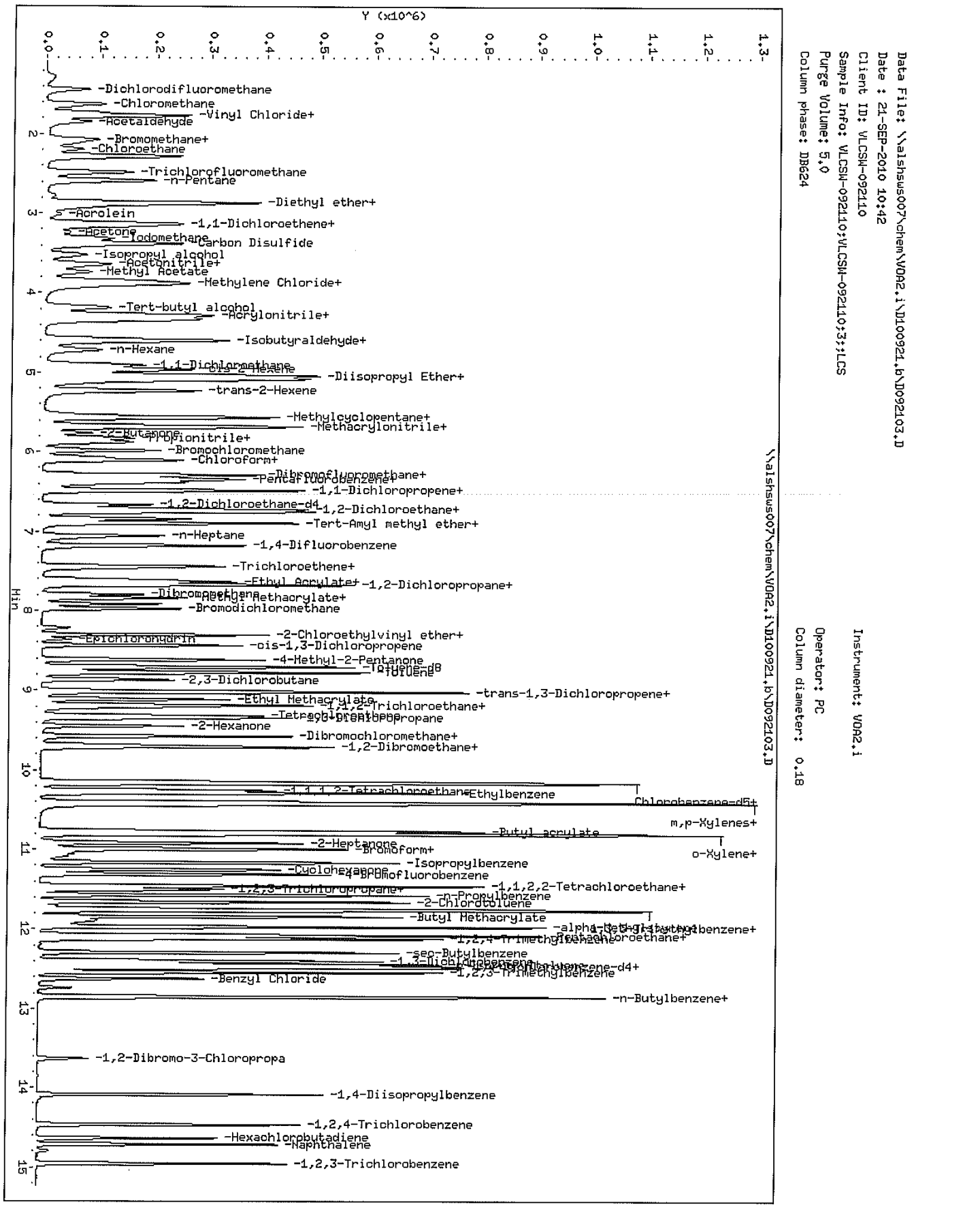
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.383	(1.000)	245240	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.178	(1.000)	311397	50.0000	
* 47 Chlorobenzene-d5	117	10.143	10.143	(1.000)	293684	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.460	12.460	(1.000)	187046	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.294	(0.985)	107874	49.2128	49.21
$ 35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.044)	167931	46.9199	46.91
$ 48 Toluene-d8	98	8.705	8.705	(0.858)	422664	49.3241	49.32
$ 69 4-Bromofluorobenzene	95	11.310	11.310	(1.115)	177851	48.8747	48.87
31 1,1,1-Trichloroethane	97	6.289	6.289	(0.985)	178820	53.3875	53.38
68 1,1,2,2-Tetrachloroethane	83	11.456	11.456	(0.919)	123528	48.3151	48.31
138 Freon TF	101	3.156	3.156	(0.494)	96288	49.8923	49.89
53 1,1,2-Trichloroethane	83	9.181	9.181	(0.905)	84972	49.5605	49.56
22 1,1-Dichloroethane	63	4.908	4.908	(0.769)	261997	51.9556	51.95
11 1,1-Dichloroethene	96	3.124	3.119	(0.490)	101151	55.8237	55.82
90 1,2,4-Trichlorobenzene	180	14.469	14.469	(1.161)	153081	51.7773	51.77
89 1,2-Dibromo-3-Chloropropane	75	13.632	13.637	(1.094)	23461	44.7918	44.79
57 1,2-Dibromoethane	107	9.678	9.678	(0.954)	102272	50.2131	50.21
88 1,2-Dichlorobenzene	146	12.858	12.858	(1.032)	253986	51.8775	51.87
33 1,2-Dichloroethane	62	6.754	6.754	(0.941)	213949	47.9635	47.96
42 1,2-Dichloropropane	63	7.675	7.675	(1.069)	132237	52.1074	52.10
83 1,3-Dichlorobenzene	146	12.398	12.398	(0.995)	255194	52.6999	52.69
84 1,4-Dichlorobenzene	146	12.486	12.487	(1.002)	266753	51.2430	51.24

Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092103.D
Report Date: 23-Sep-2010 15:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
24	2-Butanone	43	5.766	5.771	(0.903)	140129	96.4352	96.43
52	2-Hexanone	43	9.448	9.448	(0.931)	176484	92.4910	92.49
45	4-Methyl-2-Pentanone	43	8.616	8.616	(0.849)	280448	93.6557	93.65
10	Acetone	43	3.239	3.245	(0.508)	98665	106.458	106.45
37	Benzene	78	6.723	6.723	(0.937)	435163	51.7078	51.70
39	Bromodichloromethane	83	7.973	7.973	(1.111)	156539	53.1113	53.11
66	Bromoform	173	10.985	10.985	(1.083)	73298	47.2831	47.28
6	Bromomethane	94	2.073	2.073	(0.325)	92597	52.4298	52.42
19	Carbon Disulfide	76	3.381	3.381	(0.530)	564089	114.626	114.62
34	Carbon Tetrachloride	117	6.477	6.477	(0.902)	146590	48.4147	48.41
59	Chlorobenzene	112	10.175	10.170	(1.003)	313277	51.3467	51.34
7	Chloroethane	64	2.193	2.193	(0.344)	101090	53.7292	53.72
28	Chloroform	83	6.106	6.100	(0.957)	220704	50.6237	50.62
3	Chloromethane	50	1.629	1.629	(0.255)	215830	51.4157	51.41
27	cis-1,2-Dichloroethene	96	5.687	5.687	(0.891)	123808	54.9632	54.96
46	cis-1,3-Dichloropropene	75	8.433	8.433	(1.175)	183041	50.4654	50.46
141	Cyclohexane	56	6.341	6.341	(0.993)	213356	48.6087	48.60
55	Dibromochloromethane	129	9.568	9.568	(0.943)	108123	53.7110	53.71
2	Dichlorodifluoromethane	85	1.440	1.445	(0.226)	133187	48.8498	48.84
61	Ethylbenzene	106	10.285	10.285	(1.014)	159897	54.7373	54.73
67	Isopropylbenzene	105	11.163	11.163	(1.101)	427513	51.2453	51.24
146	Methyl Acetate	43	3.736	3.742	(0.585)	193773	47.2530	47.25
17	Methylene Chloride	84	3.851	3.851	(0.603)	132197	52.8094	52.80
18	Methyl tert-butyl ether	73	4.333	4.338	(0.679)	353804	51.2904	51.29
147	Methylcyclohexane	83	7.633	7.633	(1.063)	125858	49.3091	49.30
64	Styrene	104	10.808	10.808	(1.065)	364307	53.1788	53.17
56	Tetrachloroethene	164	9.317	9.317	(0.919)	93600	52.8504	52.85
50	Toluene	91	8.773	8.773	(0.865)	469539	51.9599	51.95
20	trans-1,2-Dichloroethene	96	4.280	4.280	(0.671)	117029	53.9603	53.96
51	trans-1,3-Dichloropropene	75	9.003	9.003	(0.888)	156818	48.3640	48.36
38	Trichloroethene	130	7.439	7.439	(1.036)	111426	54.5428	54.54
8	Trichlorofluoromethane	101	2.486	2.486	(0.390)	211973	54.6906	54.69
5	Vinyl Chloride	62	1.738	1.733	(0.272)	172329	56.1132	56.11
62	m,p-Xylenes	106	10.405	10.405	(1.026)	397626	110.142	110.14
63	o-Xylene	106	10.797	10.797	(1.064)	198735	53.1398	53.13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Sample Info: VLCSW-092110;VLCSW-092110;3;;LCS
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA2.i
Operator: PC
Column diameter: 0.18
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Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane+
-Chloroethane
-Trichlorofluoromethane
-n-Pentane
-Diethyl ether+
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Isopropyl alcohol
-Acetonitrile+
-Methyl Acetate
-Methylene Chloride+
-Tert-butyl alcohol
-Acrylonitrile+
-Isobutyraldehyde+
-n-Hexane
-1,1-Dichloroethane
-Diisopropyl Ether+
-trans-2-Hexene
-Methylcyclopentane+
-Methacrylonitrile+
-2-Butanone
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Tert-Amyl methyl ether+
-n-Heptane
-1,4-Difluorobenzene
-Trichloroethene+
-Ethyl Acrylate+
-1,2-Dichloropropane+
-Dibromomethane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-Epichlorohydrin
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-2,3-Dichlorobutane
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-Tetrachloroethene
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
-Ethylbenzene
Chlorobenzene-d5+
m,p-Xylenes+
-Butyl acrylate
-2-Heptanone
-Bromoform+
o-Xylene+
-Isopropylbenzene
-Cyclohexanone
-4-Bromofluorobenzene
-1,2,3-Trichloropropane+
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-Butyl Methacrylate
-alpha-Methylstyrene+
-Bromobenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene-d4+
-1,2,3-Trimethylbenzene
-Benzyl Chloride
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,4-Diisopropylbenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

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Report Date: 23-Sep-2010 15:14

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100921.b\D092104.D
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Inj Date : 21-SEP-2010 11:06 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
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Misc Info : ;WATER;0;1;
Comment :
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Meth Date : 23-Sep-2010 15:14 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	6.383	6.383	(1.000)	243790	50.0000	
*	36 1,4-Difluorobenzene	114	7.178	7.178	(1.000)	315540	50.0000	
*	47 Chlorobenzene-d5	117	10.143	10.143	(1.000)	295138	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	12.460	12.460	(1.000)	186997	50.0000	
$	30 Dibromofluoromethane	113	6.294	6.294	(0.986)	108938	49.9938	49.99
$	35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.044)	168652	47.4016	47.40
$	48 Toluene-d8	98	8.705	8.705	(0.858)	425267	49.3834	49.38
$	69 4-Bromofluorobenzene	95	11.310	11.310	(1.115)	178567	48.8297	48.82
	31 1,1,1-Trichloroethane	97	6.289	6.289	(0.985)	174597	52.4368	52.43
	68 1,1,2,2-Tetrachloroethane	83	11.456	11.456	(0.919)	123897	48.4722	48.47
	138 Freon TF	101	3.156	3.156	(0.494)	89843	47.0194	47.01
	53 1,1,2-Trichloroethane	83	9.181	9.181	(0.905)	83496	48.4597	48.45
	22 1,1-Dichloroethane	63	4.908	4.908	(0.769)	262946	52.4540	52.45
	11 1,1-Dichloroethene	96	3.119	3.119	(0.489)	100327	55.6983	55.69
	90 1,2,4-Trichlorobenzene	180	14.469	14.469	(1.161)	140249	47.4495	47.44
	89 1,2-Dibromo-3-Chloropropane	75	13.632	13.637	(1.094)	23599	45.0548	45.05
	57 1,2-Dibromoethane	107	9.678	9.678	(0.954)	101623	49.6487	49.64
	88 1,2-Dichlorobenzene	146	12.858	12.858	(1.032)	235958	48.2079	48.20
	33 1,2-Dichloroethane	62	6.754	6.754	(0.941)	209949	46.4488	46.44
	42 1,2-Dichloropropane	63	7.680	7.675	(1.070)	131105	50.9831	50.98
	83 1,3-Dichlorobenzene	146	12.398	12.398	(0.995)	233796	48.2937	48.29
	84 1,4-Dichlorobenzene	146	12.487	12.487	(1.002)	244690	47.0170	47.01

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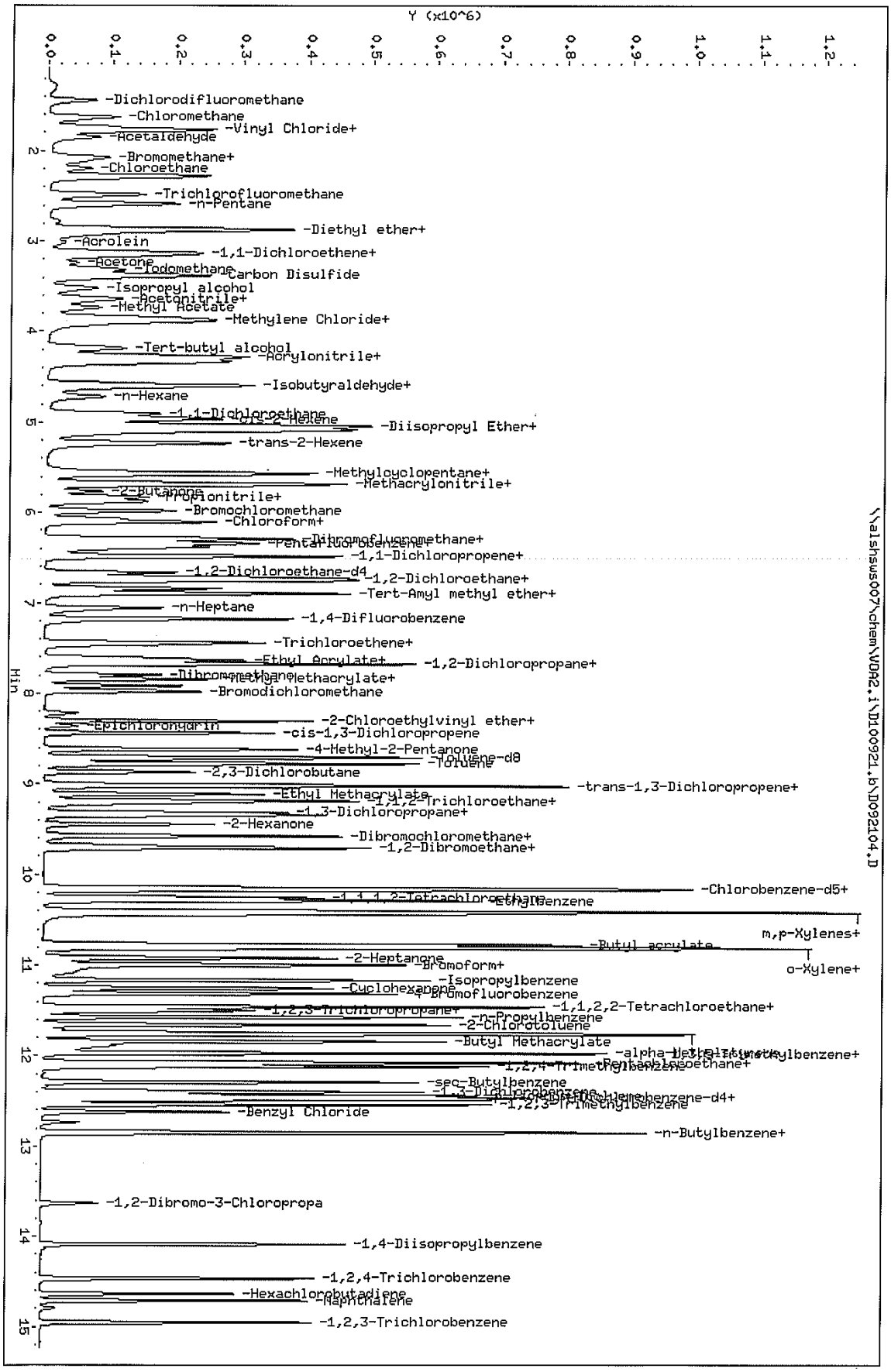
Report Date: 23-Sep-2010 15:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
24	2-Butanone	43	5.766	5.771	(0.903)	141103	97.6831	97.68
52	2-Hexanone	43	9.448	9.448	(0.931)	176263	91.9201	91.92
45	4-Methyl-2-Pentanone	43	8.616	8.616	(0.849)	280031	93.0557	93.05
10	Acetone	43	3.239	3.245	(0.508)	94736	102.556	102.55
37	Benzene	78	6.723	6.723	(0.937)	431231	50.5678	50.56
39	Bromodichloromethane	83	7.978	7.973	(1.111)	154898	51.8645	51.86
66	Bromoform	173	10.985	10.985	(1.083)	73693	47.3024	47.30
6	Bromomethane	94	2.078	2.073	(0.326)	92694	52.7969	52.79
19	Carbon Disulfide	76	3.381	3.381	(0.530)	564610	115.414	115.41
34	Carbon Tetrachloride	117	6.482	6.477	(0.903)	141242	46.1548	46.15
59	Chlorobenzene	112	10.175	10.170	(1.003)	304074	49.5928	49.59
7	Chloroethane	64	2.199	2.193	(0.345)	101008	54.0049	54.00
28	Chloroform	83	6.106	6.100	(0.957)	218320	50.3748	50.37
3	Chloromethane	50	1.629	1.629	(0.255)	216699	51.9252	51.92
27	cis-1,2-Dichloroethene	96	5.687	5.687	(0.891)	124537	55.6157	55.61
46	cis-1,3-Dichloropropene	75	8.438	8.433	(1.176)	181795	49.4921	49.49
141	Cyclohexane	56	6.341	6.341	(0.993)	189666	43.8011	43.80
55	Dibromochloromethane	129	9.568	9.568	(0.943)	106973	52.8780	52.87
2	Dichlorodifluoromethane	85	1.440	1.445	(0.226)	129217	47.6984	47.69
61	Ethylbenzene	106	10.285	10.285	(1.014)	149070	50.7795	50.77
67	Isopropylbenzene	105	11.163	11.163	(1.101)	382320	45.8257	45.82
146	Methyl Acetate	43	3.736	3.742	(0.585)	194055	47.6032	47.60
17	Methylene Chloride	84	3.851	3.851	(0.603)	136303	54.7735	54.77
18	Methyl tert-butyl ether	73	4.338	4.338	(0.680)	349687	50.9951	50.99
147	Methylcyclohexane	83	7.633	7.633	(1.063)	108784	42.7051	42.70
64	Styrene	104	10.808	10.808	(1.065)	347502	50.4758	50.47
56	Tetrachloroethene	164	9.317	9.317	(0.919)	86175	48.4182	48.41
50	Toluene	91	8.773	8.773	(0.865)	455406	50.1477	50.14
20	trans-1,2-Dichloroethene	96	4.280	4.280	(0.671)	116228	53.9097	53.90
51	trans-1,3-Dichloropropene	75	9.003	9.003	(0.888)	156800	48.1328	48.13
38	Trichloroethene	130	7.439	7.439	(1.036)	106476	51.4354	51.43
8	Trichlorofluoromethane	101	2.486	2.486	(0.390)	205745	53.3994	53.39
5	Vinyl Chloride	62	1.733	1.733	(0.272)	169603	55.5541	55.55
62	m,p-Xylenes	106	10.405	10.405	(1.026)	366133	100.919	100.91
63	o-Xylene	106	10.797	10.797	(1.064)	184929	49.2046	49.20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Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane+
-Chloroethane
-Trichlorofluoromethane
-n-Pentane
-Diethyl ether+
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Isopropyl alcohol
-Acetonitrile+
-Methyl Acetate
-Methylene Chloride+
-Tert-butyl alcohol
-Acrylonitrile+
-Isobutyraldehyde+
-n-Hexane
-1,1-Dichloroethane
-cis-2-Hexene
-Diisopropyl Ether+
-trans-2-Hexene
-Methylcyclopentane+
-Methacrylonitrile+
-2-Butanone
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Tert-Amyl methyl ether+
-n-Heptane
-1,4-Difluorobenzene
-Trichloroethene+
-Ethyl Acrylate+
-1,2-Dichloropropane+
-Dibromomethane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-Epichlorohydrin
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-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-2,3-Dichlorobutane
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-1,3-Dichloropropane+
-2-Hexanone
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-1,2-Dibromoethane+
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-Ethylbenzene
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-2-Heptanone
-Bromoform+
o-Xylene+
-Isopropylbenzene
-Cyclohexanone
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-1,2,3-Trichloropropane+
-n-Propylbenzene
-2-Chlorotoluene
-Butyl Methacrylate
-alpha-Methylstyrene+
-Pentachloroethane+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
-4-Isopropyltoluene
-1,4-Dichlorobenzene-d4+
-1,2,3-Trimethylbenzene
-Benzyl Chloride
-n-Butylbenzene+
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-1,4-Diisopropylbenzene
-1,2,4-Trichlorobenzene
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-Naphthalene
-1,2,3-Trichlorobenzene
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Instrument: VOA2.i
Operator: PC
Column diameter: 0.18

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Report Date: 23-Sep-2010 15:14

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100921.b\D092106.D
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Operator : PC Inst ID: VOA2.i
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Misc Info : 100921V2;WATER;0;1;
Comment :
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Meth Date : 23-Sep-2010 15:14 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.383	(1.000)	209054	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.178	(1.000)	268434	50.0000	
* 47 Chlorobenzene-d5	117	10.144	10.143	(1.000)	245620	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.466	12.460	(1.000)	145756	50.0000	
$ 30 Dibromofluoromethane	113	6.289	6.294	(0.985)	97167	52.0011	52.00
$ 35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.044)	158743	52.0299	52.02
$ 48 Toluene-d8	98	8.705	8.705	(0.858)	356554	49.7515	49.75
$ 69 4-Bromofluorobenzene	95	11.310	11.310	(1.115)	140754	46.2493	46.24

Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092106.D
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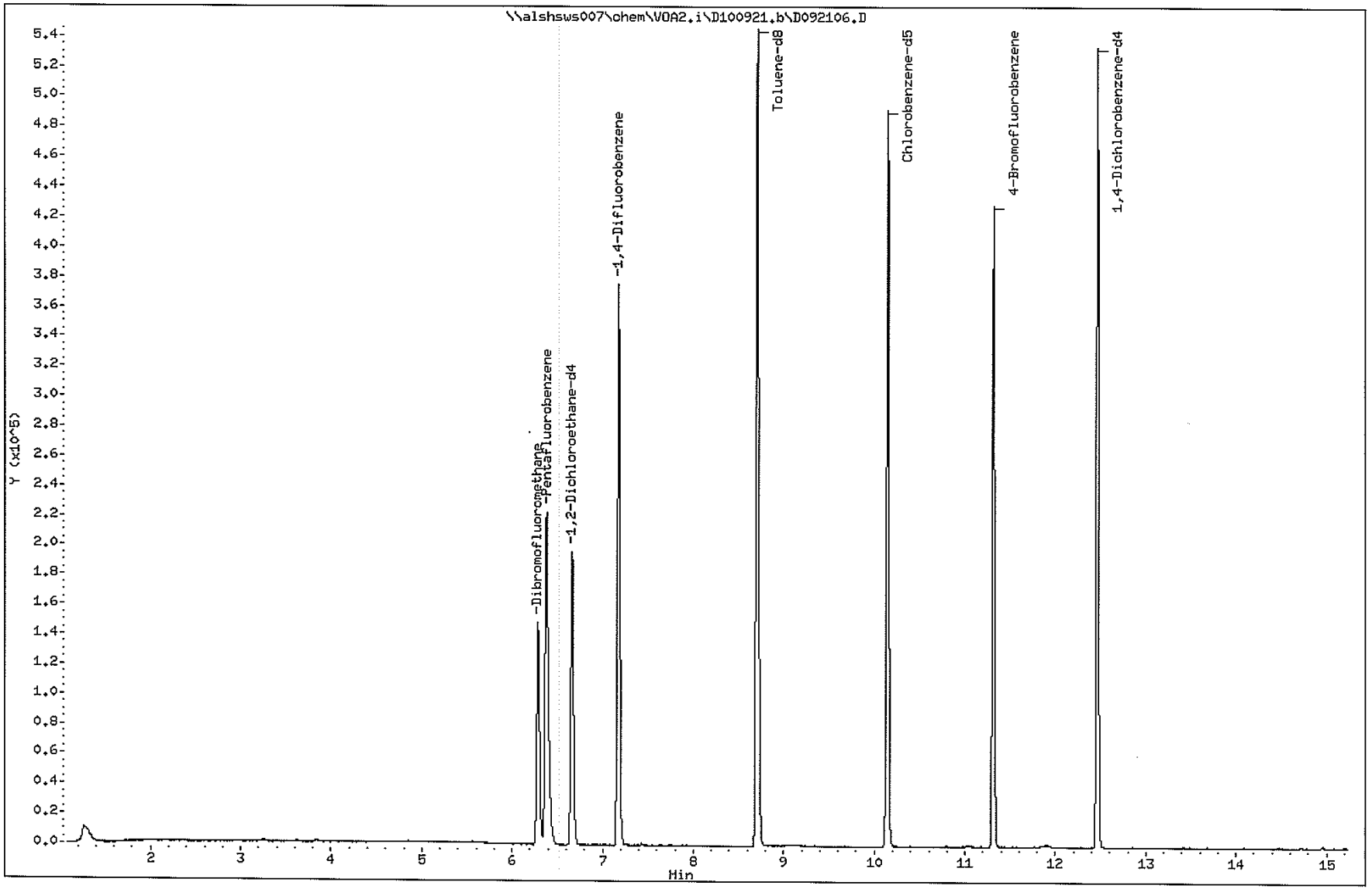
Sample Info: VBLKW-092110;VBLKW-092110;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i

Operator: PC
Column diameter: 0.18



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Report Date: 23-Sep-2010 15:14

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100921.b\D092107.D
Lab Smp Id: 1009543-02A Client Smp ID: 1009543-02A
Inj Date : 21-SEP-2010 12:41 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : 1009543-02A;1009543-02A;;;
Misc Info : 100921V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100921.b\8260BW.m
Meth Date : 23-Sep-2010 15:14 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

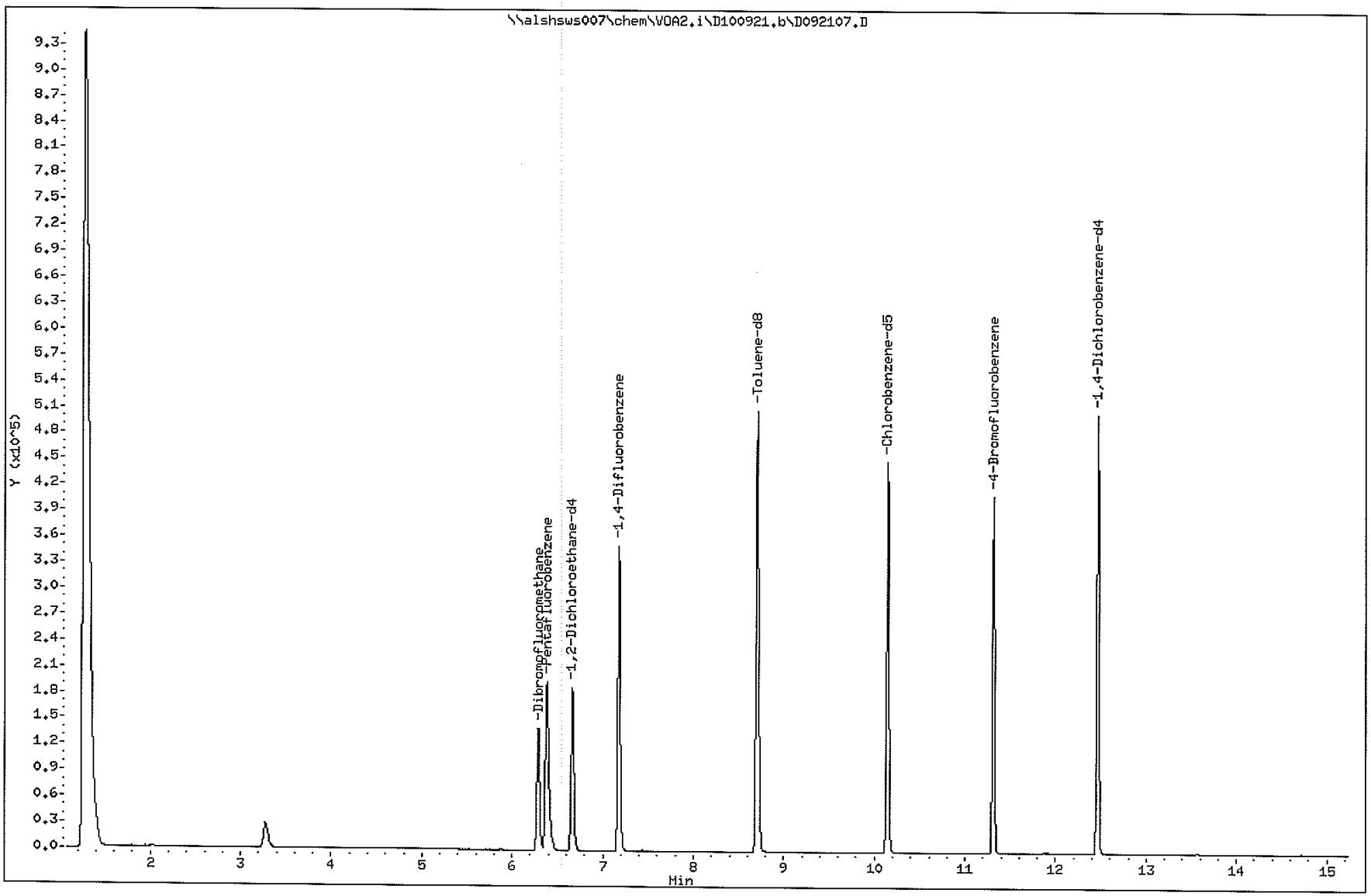
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.383	(1.000)	190960	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.178	(1.000)	250683	50.0000	
* 47 Chlorobenzene-d5	117	10.143	10.143	(1.000)	232648	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.466	12.460	(1.000)	135497	50.0000	
$ 30 Dibromofluoromethane	113	6.294	6.294	(0.986)	92454	54.1671	54.16
$ 35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.044)	157348	56.4594	56.45
$ 48 Toluene-d8	98	8.705	8.705	(0.858)	338196	49.8211	49.82
$ 69 4-Bromofluorobenzene	95	11.310	11.310	(1.115)	132911	46.1073	46.10

Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092107.D
Date : 21-SEP-2010 12:41
Client ID: 1009543-02A
Sample Info: 1009543-02A;1009543-02A;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092108.D
Report Date: 23-Sep-2010 15:14

ALS Laboratory Group

Data file : \\alshsws007\chem\VOA2.i\D100921.b\D092108.D
Lab Smp Id: 1009543-16A Client Smp ID: 1009543-16A
Inj Date : 21-SEP-2010 13:04 MS Autotune Date: 16-SEP-2010 11:06
Operator : PC Inst ID: VOA2.i
Smp Info : 1009543-16A;1009543-16A;;;
Misc Info : 100921V2;WATER;0;1;
Comment :
Method : \\ALSHSWS007\chem\VOA2.i\D100921.b\8260BW.m
Meth Date : 23-Sep-2010 15:14 VOA2.i Quant Type: ISTD
Cal Date : 17-SEP-2010 16:01 Cal File: D091710.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

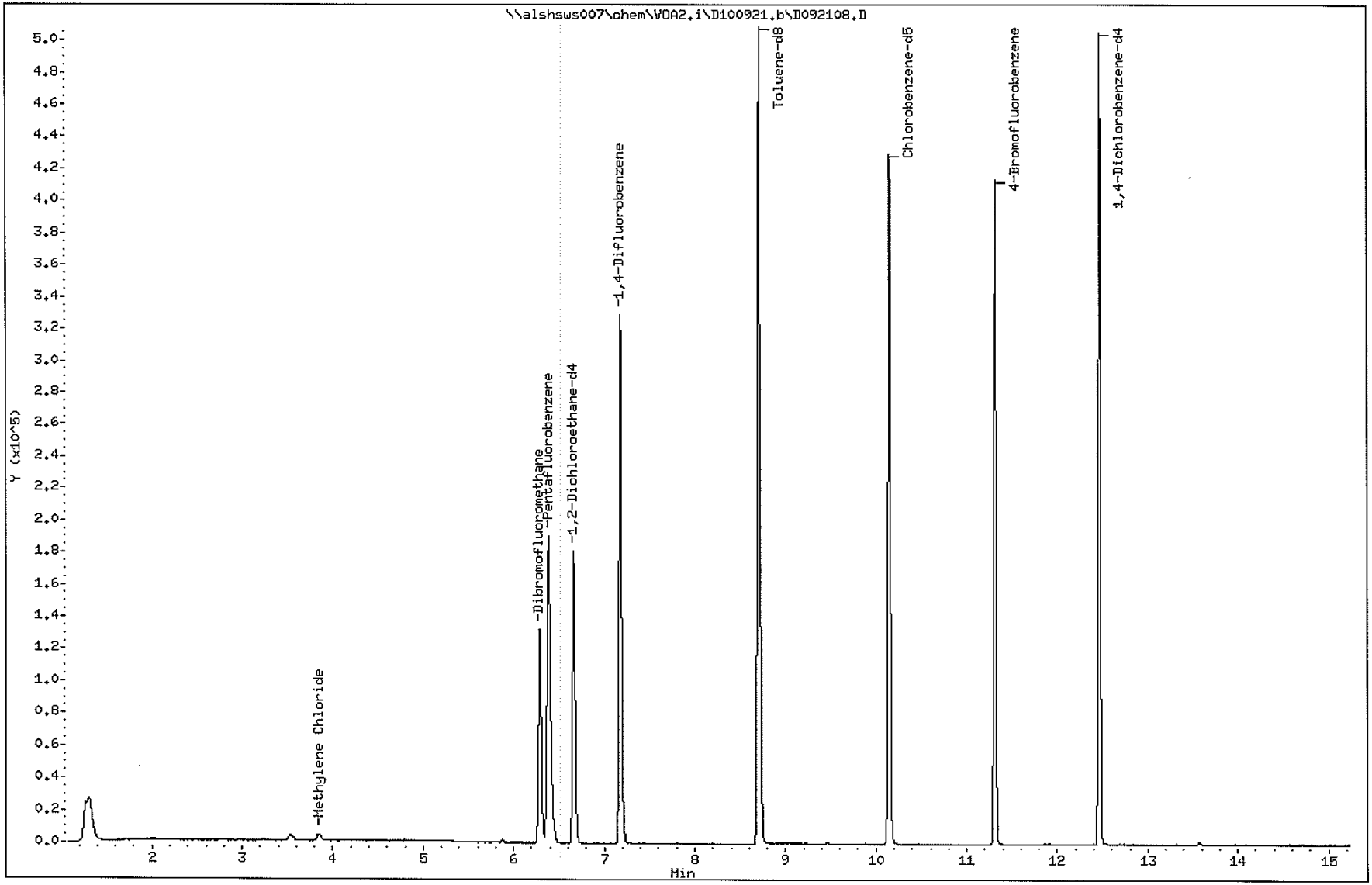
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	6.383	6.383	(1.000)	184545	50.0000	
* 36 1,4-Difluorobenzene	114	7.178	7.178	(1.000)	242568	50.0000	
* 47 Chlorobenzene-d5	117	10.143	10.143	(1.000)	226703	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	12.466	12.460	(1.000)	133803	50.0000	
$ 30 Dibromofluoromethane	113	6.294	6.294	(0.986)	89629	54.3374	54.33
$ 35 1,2-Dichloroethane-d4	65	6.665	6.665	(1.044)	151048	56.0828	56.08
$ 48 Toluene-d8	98	8.705	8.705	(0.858)	329572	49.8239	49.82
$ 69 4-Bromofluorobenzene	95	11.315	11.310	(1.115)	130436	46.4353	46.43
17 Methylene Chloride	84	3.851	3.851	(0.603)	2482	1.31759	1.31(a)

QC Flag Legend

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

Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092108.D
Date : 21-SEP-2010 13:04
Client ID: 1009543-16A
Sample Info: 1009543-16A;1009543-16A;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA2.i
Operator: PC
Column diameter: 0.18



Data File: \\alshsws007\chem\VOA2.i\D100921.b\D092108.D

Date : 21-SEP-2010 13:04

Client ID: 1009543-16A

Instrument: VOA2.i

Sample Info: 1009543-16A;1009543-16A;;;

Purge Volume: 5.0

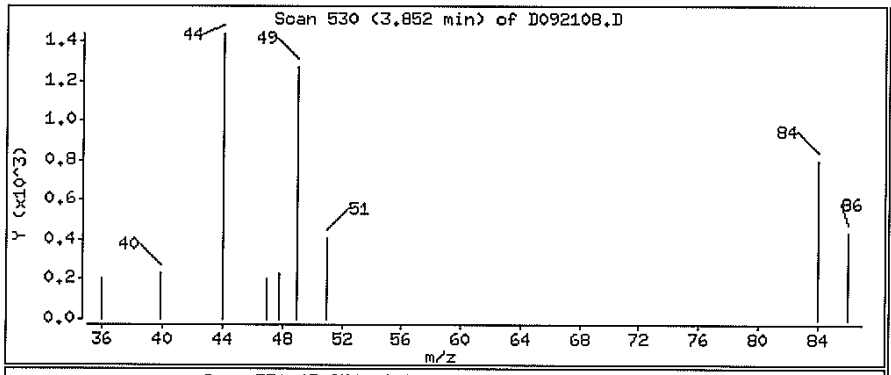
Operator: PC

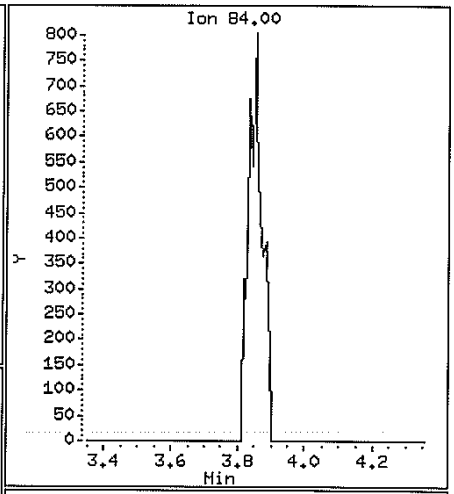
Column phase: DB624

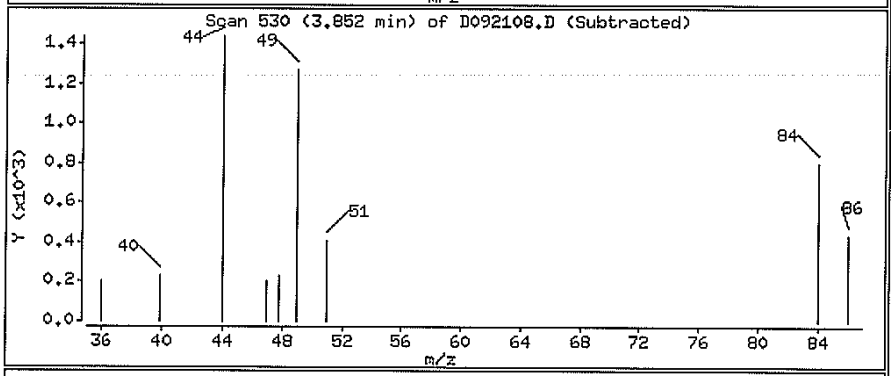
Column diameter: 0.18

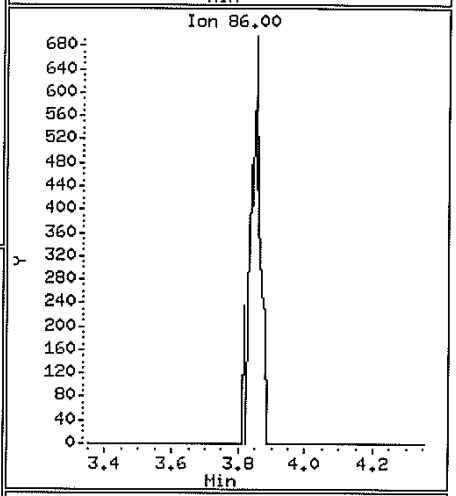
17 Methylene Chloride

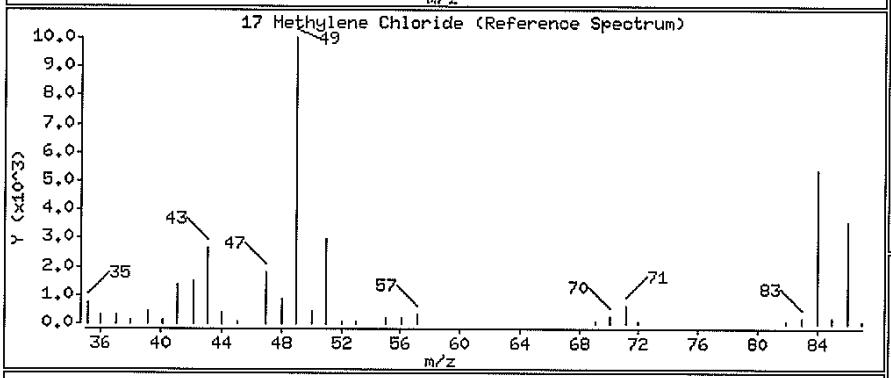
Concentration: 1.31 ug/l

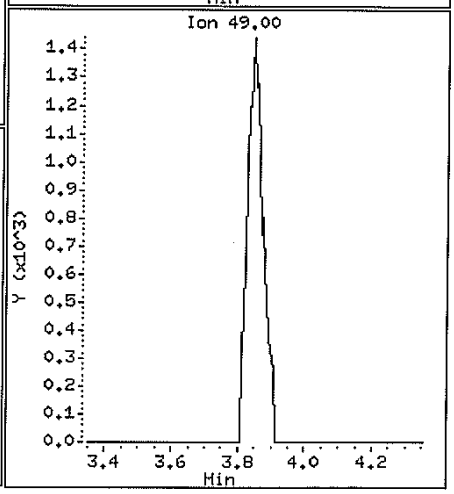


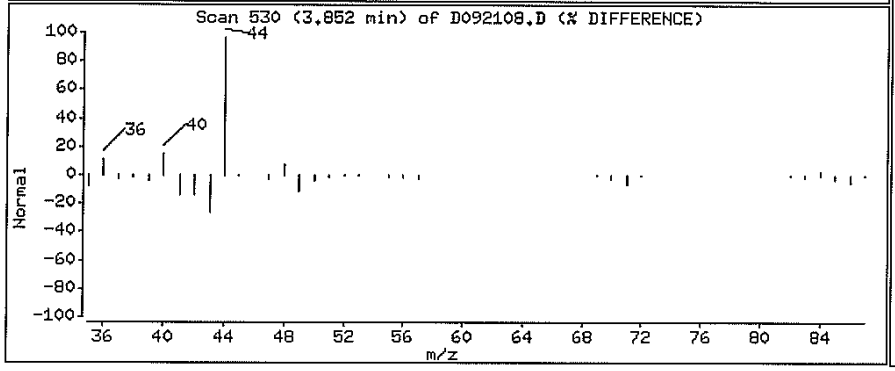












ALS Laboratory Group **MS VOA 3 - Instrument Run Log** **Logbook #22813**

Sequence #: G1009918	IS ID: 22710-56.01	Method ID: 8260 / 624	SOP ID: MSV-001 / MSV-002
Cal STD ID: 22710-55.01	ICV StD ID ——	LCS/MS ID: 22710-55.01	Surr. ID: 22710-56.02

File ID	WO #	SX #	pH	Soil/ Water	Sample-Vol Wt (ml or g)	Purge Vol.-mL	Dil. Fac.	Inj. Date	Inj. Time	Status	Comments
G091801	BFB	TUNE	—	—	—	—	—	9/18/10	0917	✓	
02	VSTD05U	VSTD05D	NA	SOIL	5mls	5mls	1		0939	✓	
03	VLCSS1	091810					1		1007	✓	
04	VLCSDS1	091810					1		1034	✓	
05	VBLKS1	091810					1		1101	—	
06	VBLKS1	091810					1		1128	✓	
07	1009543	15A			5grs		1		1155	✓	
08	1009582	12A					1		1223	✓	
09	1009543	09A			6.54		.765		1252	✓	
G091810		06A			7.04		.71		1317	✓	
11		01A			6.37		.785		1344	✓	
12		03A			4.45		1.124		1411	✓	
13		12A			2.72		1.838		1438	✓	
14	1009582	09A			6.19		.808		1506	✓	
15		01A			4.07		1.229		1533	✓	
16		03A			4.42		1.131		1600	✓	
17		05A			3.82		1.309		1627	✓	
18		08A			7.09		.705		1654	✓	
19		08AMS			6.95		.719		1721	✓	
G091820		08AMSD			6.41		.78		1749	✓	
21	1009505	20A			.5gr		10		1806	✓	Rpt 62,63 RRLL E
22		21A					10		1844	✓	Rpt 61
23	1009425	07A			1.0gr		5		1911	✓	Rpt 92, 79
24		06A			.5gr		10		1939	✓	RRLL 139
25		08A					10		2006	✓	RRLL 92, 138, 139
26		10A					5		2034	✓	
G091827		01A			5grs		1		2100	✓	

Pentafluorobenzene: 97313	Chlorobenzene-d_5: 156000	BFB Ion 95 Response: 44816
1,4-Difluorobenzene: 185905	1,4-Dichlorobenzene-d_4: 70246	Analyst: VOLK

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FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA3 Calibration Date: 09/18/10 Time: 0939

Lab File ID: G091802 Init. Calib. Date(s): 09/16/10 09/16/10

Heated Purge: (Y/N) Y Init. Calib. Times: 1449 1805

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Dichlorodifluoromethane	45.29	50.00	2ORDR	9.4	20.0
Chloromethane	46.80	50.00	AVRG	6.4	20.0
Vinyl Chloride	48.23	50.00	AVRG	3.5	20.0
Bromomethane	47.97	50.00	AVRG	4.1	20.0
Chloroethane	49.60	50.00	AVRG	0.8	20.0
Trichlorofluoromethane	47.45	50.00	2ORDR	5.1	20.0
Acetone	112.34	100.00	2ORDR	12.3	20.0
1,1-Dichloroethene	46.48	50.00	2ORDR	7.0	20.0
Methylene Chloride	44.44	50.00	AVRG	11.1	20.0
Carbon Disulfide	102.12	100.00	AVRG	2.1	20.0
trans-1,2-Dichloroethene	49.85	50.00	AVRG	0.3	20.0
1,1-Dichloroethane	50.69	50.00	AVRG	1.4	20.0
2-Butanone	104.60	100.00	AVRG	4.6	20.0
cis-1,2-Dichloroethene	48.91	50.00	AVRG	2.2	20.0
Chloroform	50.45	50.00	AVRG	0.9	20.0
1,1,1-Trichloroethane	51.98	50.00	AVRG	4.0	20.0
1,2-Dichloroethane	48.92	50.00	AVRG	2.2	20.0
Carbon Tetrachloride	48.37	50.00	AVRG	3.3	20.0
Benzene	46.68	50.00	AVRG	6.6	20.0
Trichloroethene	47.98	50.00	AVRG	4.0	20.0
Bromodichloromethane	48.53	50.00	AVRG	2.9	20.0
1,2-Dichloropropane	47.80	50.00	AVRG	4.4	20.0
4-Methyl-2-Pentanone	95.29	100.00	AVRG	4.7	20.0
cis-1,3-Dichloropropene	47.38	50.00	AVRG	5.2	20.0
Toluene	46.93	50.00	AVRG	6.1	20.0
trans-1,3-Dichloropropene	48.49	50.00	AVRG	3.0	20.0
2-Hexanone	100.58	100.00	AVRG	0.6	20.0
1,1,2-Trichloroethane	47.35	50.00	AVRG	5.3	20.0
Dibromochloromethane	47.59	50.00	AVRG	4.8	20.0
Tetrachloroethene	47.34	50.00	AVRG	5.3	20.0
1,2-Dibromoethane	47.03	50.00	AVRG	5.9	20.0
Chlorobenzene	46.96	50.00	AVRG	6.1	20.0
Ethylbenzene	48.02	50.00	AVRG	4.0	20.0
m,p-Xylenes	95.32	100.00	AVRG	4.7	20.0
o-Xylene	47.04	50.00	AVRG	5.9	20.0
Styrene	48.72	50.00	AVRG	2.6	20.0
Bromoform	44.37	50.00	2ORDR	11.3	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: VOA3 Calibration Date: 09/18/10 Time: 0939

Lab File ID: G091802 Init. Calib. Date(s): 09/16/10 09/16/10

Heated Purge: (Y/N) Y Init. Calib. Times: 1449 1805

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Isopropylbenzene	49.07	50.00	AVRG	1.9	20.0
1,1,2,2-Tetrachloroethane	47.13	50.00	AVRG	5.7	20.0
1,3-Dichlorobenzene	46.24	50.00	AVRG	7.5	20.0
1,4-Dichlorobenzene	45.97	50.00	AVRG	8.1	20.0
1,2-Dichlorobenzene	45.78	50.00	AVRG	8.4	20.0
1,2-Dibromo-3-Chloropropane	47.12	50.00	2ORDR	5.8	20.0
1,2,4-Trichlorobenzene	47.68	50.00	AVRG	4.6	20.0
Methyl tert-butyl ether	50.51	50.00	AVRG	1.0	20.0
Methylcyclohexane	48.39	50.00	2ORDR	3.2	20.0
Cyclohexane	47.49	50.00	2ORDR	5.0	20.0
Freon TF	47.02	50.00	2ORDR	6.0	20.0
Methyl Acetate	48.67	50.00	AVRG	2.7	20.0
Dibromofluoromethane	54.38	50.00	AVRG	8.8	20.0
1,2-Dichloroethane-d4	53.91	50.00	AVRG	7.8	20.0
Toluene-d8	50.54	50.00	AVRG	1.1	20.0
4-Bromofluorobenzene	51.47	50.00	AVRG	2.9	20.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): G091802 Date Analyzed: 09/18/10

Instrument ID: VOA3 Time Analyzed: 0939

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	97313	6.69	185905	7.68	156000	11.71
	UPPER LIMIT	194626	7.19	371810	8.18	312000	12.21
	LOWER LIMIT	48657	6.19	92953	7.18	78000	11.21
	CLIENT SAMPLE NO.						
01	VLCSS1-09181	94259	6.69	177195	7.68	148355	11.71
02	VLCSDS1-0918	92293	6.69	172935	7.68	141878	11.71
03	VBLKS1-09181	99779	6.69	185879	7.68	154548	11.70
04	1009543-15A	92253	6.69	170186	7.68	141076	11.71
05	1009543-09A	87674	6.69	164039	7.68	136205	11.70
06	1009543-06A	88726	6.69	166487	7.68	138790	11.70
07	1009543-01A	92340	6.69	171378	7.68	138827	11.71
08	1009543-03A	86931	6.69	163160	7.68	130829	11.71
09	1009543-12A	101415	6.70	192355	7.68	159481	11.71
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): G091802 Date Analyzed: 09/18/10

Instrument ID: VOA3 Time Analyzed: 0939

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

		IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	70246	15.06				
	UPPER LIMIT	140492	15.56				
	LOWER LIMIT	35123	14.56				
	CLIENT SAMPLE NO.						
01	VLCSS1-09181	66851	15.06				
02	VLCSDS1-0918	63894	15.06				
03	VBLKS1-09181	69943	15.06				
04	1009543-15A	63866	15.06				
05	1009543-09A	60748	15.07				
06	1009543-06A	62655	15.07				
07	1009543-01A	52741	15.07				
08	1009543-03A	48669	15.07				
09	1009543-12A	64269	15.07				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (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.

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091801.D Page 1

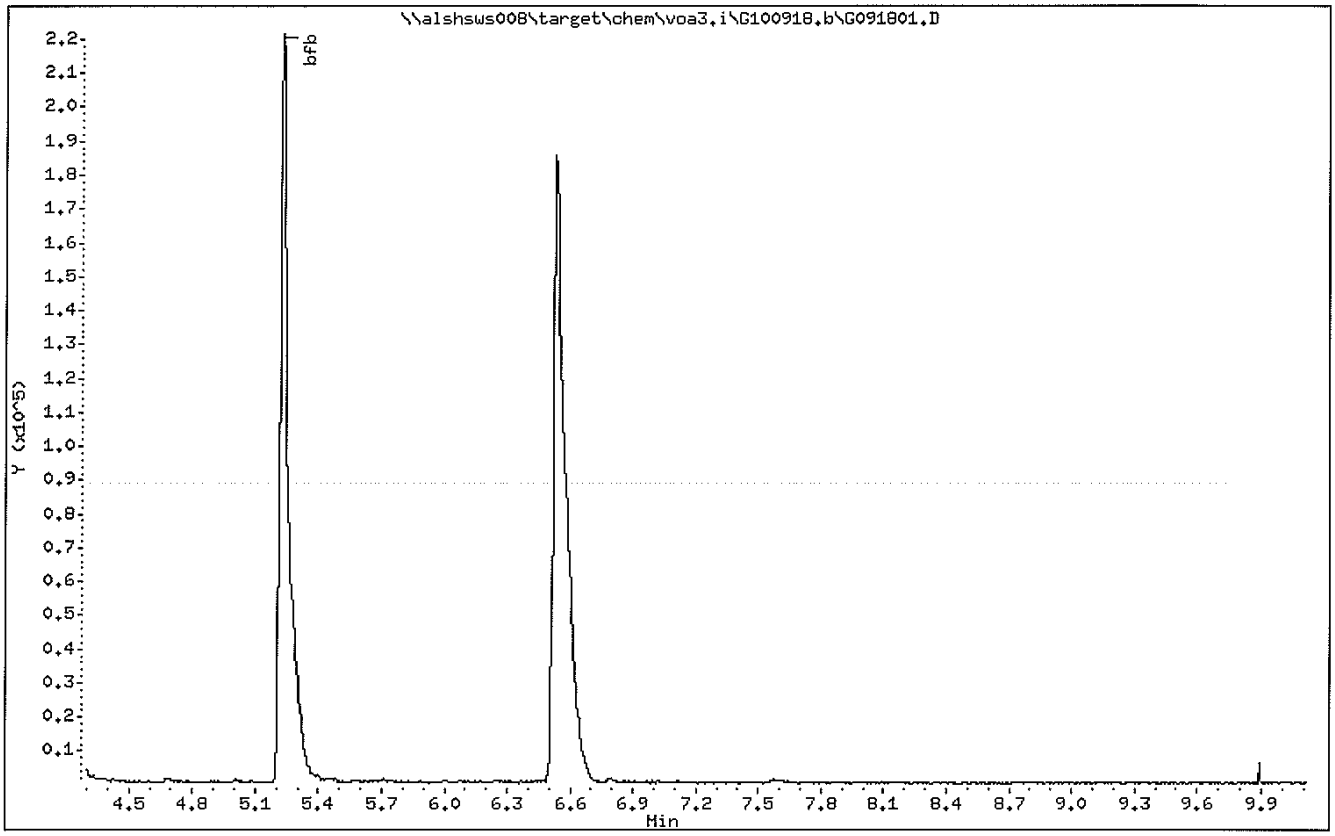
Date : 18-SEP-2010 09:17

Client ID: BFB Instrument: VOA3.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: WLR

Column phase: DB624 Column diameter: 0.25



Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091B01.D Page 2

Date : 18-SEP-2010 09:17

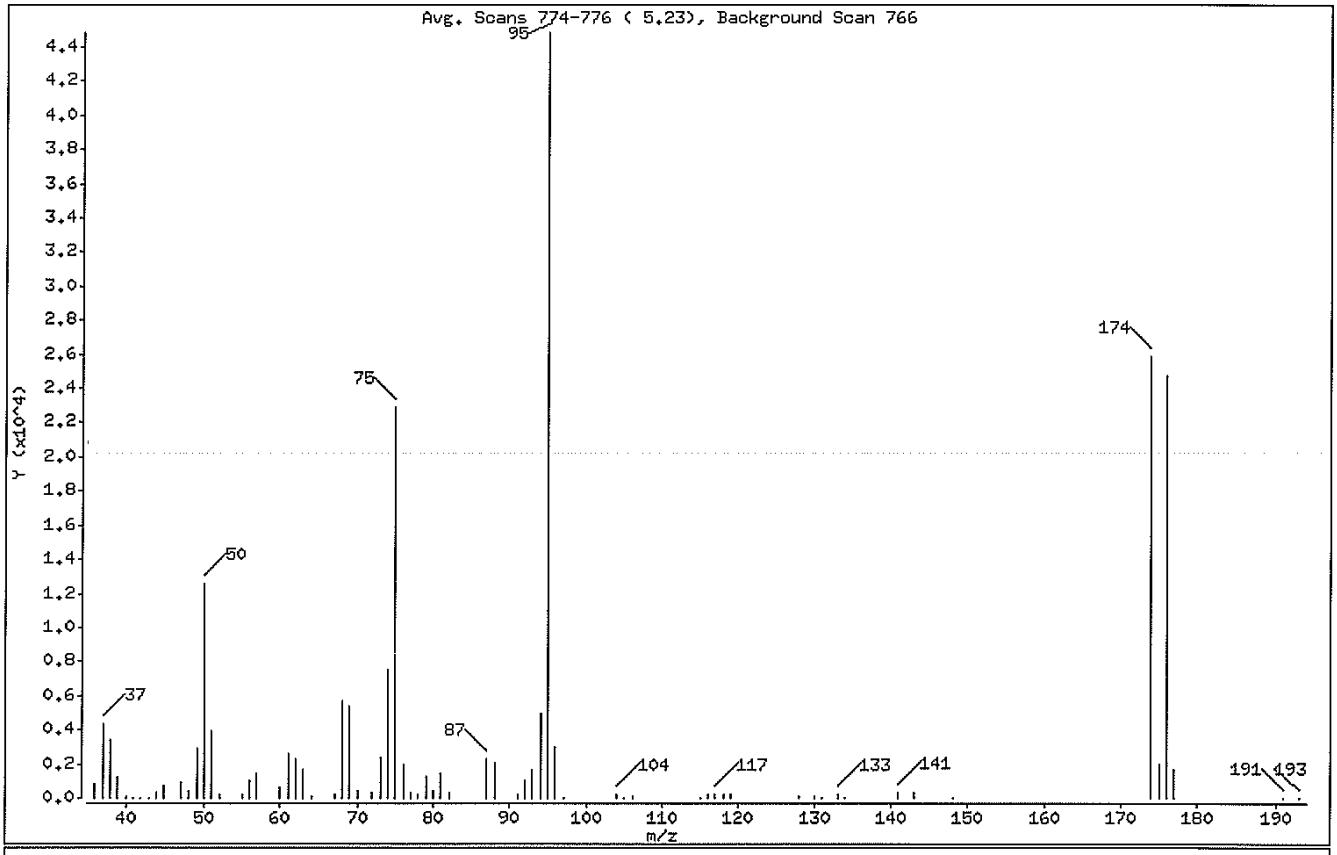
Client ID: BFB Instrument: VOA3.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: WLR

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	28.00
75	30.00 - 60.00% of mass 95	51.14
96	5.00 - 9.00% of mass 95	6.57
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	57.62
175	5.00 - 9.00% of mass 174	4.31 (7.47)
176	95.00 - 101.00% of mass 174	55.07 (95.57)
177	5.00 - 9.00% of mass 176	3.69 (6.70)

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091801.D

Date : 18-SEP-2010 09:17

Client ID: BFB

Instrument: VOA3.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: WLR

Column phase: DB624

Column diameter: 0.25

Data File: G091801.D
Spectrum: Avg. Scans 774-776 (5.23), Background Scan 766
Location of Maximum: 95.00
Number of points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	871	57.00	1470	80.00	412	118.00	169
37.00	4283	60.00	613	81.00	1424	119.00	204
38.00	3389	61.00	2604	82.00	305	128.00	130
39.00	1230	62.00	2315	87.00	2231	130.00	136
40.00	71	63.00	1693	88.00	2103	131.00	35
41.00	33	64.00	149	91.00	197	133.00	190
42.00	33	67.00	195	92.00	1034	134.00	33
43.00	34	68.00	5703	93.00	1682	141.00	278
44.00	275	69.00	5346	94.00	4911	143.00	265
45.00	751	70.00	459	95.00	44816	148.00	39
47.00	885	72.00	290	96.00	2946	174.00	25824
48.00	440	73.00	2346	97.00	45	175.00	1930
49.00	2918	74.00	7499	104.00	159	176.00	24680
50.00	12549	75.00	22920	105.00	43	177.00	1653
51.00	3906	76.00	1951	106.00	144	191.00	35
52.00	198	77.00	310	115.00	37	193.00	36
55.00	223	78.00	162	116.00	155		
56.00	991	79.00	1255	117.00	213		

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091802.D
Report Date: 23-Sep-2010 14:55

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100918.b\G091802.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 18-SEP-2010 09:39 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VSTD050;VSTD050;2;;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\ALSHSWS008\Target\chem\voa3.i\G100918.b\8260BS.m
Meth Date : 23-Sep-2010 14:55 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
*	1 Pentafluorobenzene	168	6.689	6.689	(1.000)	97313	50.0000	
*	36 1,4-Difluorobenzene	114	7.676	7.676	(1.000)	185905	50.0000	
*	47 Chlorobenzene-d5	117	11.706	11.706	(1.000)	156000	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.061	15.061	(1.000)	70246	50.0000	
$	30 Dibromofluoromethane	113	6.557	6.557	(0.980)	57210	50.0000	54.38
$	35 1,2-Dichloroethane-d4	65	7.064	7.064	(0.920)	79488	50.0000	53.91
$	48 Toluene-d8	98	9.659	9.659	(0.825)	206788	50.0000	50.54
$	69 4-Bromofluorobenzene	95	13.405	13.405	(1.145)	83384	50.0000	51.47
	31 1,1,1-Trichloroethane	97	6.473	6.473	(0.968)	76303	50.0000	51.98
	68 1,1,2,2-Tetrachloroethane	83	13.700	13.700	(0.910)	57389	50.0000	47.13
	142 Freon TF	101	2.997	2.997	(0.448)	52115	50.0000	47.02
	53 1,1,2-Trichloroethane	83	10.445	10.445	(0.892)	37650	50.0000	47.35
	22 1,1-Dichloroethane	63	4.906	4.906	(0.733)	116071	50.0000	50.69
	11 1,1-Dichloroethene	96	3.023	3.023	(0.452)	44561	50.0000	46.48
	90 1,2,4-Trichlorobenzene	180	17.968	17.968	(1.193)	47099	50.0000	47.68
	89 1,2-Dibromo-3-Chloropropane	155	16.818	16.818	(1.117)	7188	50.0000	47.12
	57 1,2-Dibromoethane	107	11.083	11.083	(0.947)	42056	50.0000	47.03
	88 1,2-Dichlorobenzene	146	15.625	15.625	(1.037)	80417	50.0000	45.78
	33 1,2-Dichloroethane	62	7.175	7.175	(0.935)	84224	50.0000	48.92
	42 1,2-Dichloropropane	63	8.340	8.340	(1.087)	60523	50.0000	47.80

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091802.D
Report Date: 23-Sep-2010 14:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
83	1,3-Dichlorobenzene	146	14.950	14.950	(0.993)	86584	50.0000	46.24
84	1,4-Dichlorobenzene	146	15.098	15.098	(1.002)	87748	50.0000	45.97
24	2-Butanone	43	5.914	5.914	(0.884)	77523	100.000	104.60
52	2-Hexanone	43	10.793	10.793	(0.922)	124794	100.000	100.58
45	4-Methyl-2-Pentanone	43	9.617	9.617	(0.822)	184976	100.000	95.29
10	Acetone	43	3.213	3.213	(0.480)	53227	100.000	112.34
37	Benzene	78	7.006	7.006	(0.913)	222220	50.0000	46.68
39	Bromodichloromethane	83	8.741	8.741	(1.139)	70565	50.0000	48.53
66	Bromoform	173	12.935	12.935	(1.105)	24005	50.0000	44.37(T)
6	Bromomethane	96	2.047	2.047	(0.306)	54132	50.0000	47.97
19	Carbon Disulfide	76	3.266	3.266	(0.488)	376454	100.000	102.12
34	Carbon Tetrachloride	119	6.647	6.647	(0.866)	55934	50.0000	48.37
59	Chlorobenzene	112	11.743	11.743	(1.003)	128017	50.0000	46.96
7	Chloroethane	64	2.158	2.158	(0.323)	58559	50.0000	49.60
28	Chloroform	83	6.315	6.315	(0.944)	94649	50.0000	50.45
3	Chloromethane	50	1.620	1.620	(0.242)	107787	50.0000	46.80
27	cis-1,2-Dichloroethene	96	5.824	5.824	(0.871)	57090	50.0000	48.91
46	cis-1,3-Dichloropropene	75	9.380	9.380	(1.222)	94038	50.0000	47.38
139	Cyclohexane	56	6.415	6.415	(0.959)	126793	50.0000	47.49
55	Dibromochloromethane	129	10.931	10.931	(0.934)	43099	50.0000	47.59
2	Dichlorodifluoromethane	85	1.419	1.419	(0.212)	44648	50.0000	45.29
61	Ethylbenzene	106	11.875	11.875	(1.014)	67621	50.0000	48.02
67	Isopropylbenzene	105	13.130	13.130	(1.122)	218627	50.0000	49.07
143	Methyl Acetate	43	3.645	3.645	(0.545)	59238	50.0000	48.67
17	Methylene Chloride	84	3.809	3.809	(0.569)	61239	50.0000	44.44
18	Methyl tert-butyl ether	73	4.141	4.141	(0.619)	176273	50.0000	50.51
138	Methylcyclohexane	83	8.092	8.092	(1.210)	91500	50.0000	48.39
64	Styrene	104	12.661	12.661	(1.082)	144074	50.0000	48.72
56	Tetrachloroethene	164	10.461	10.461	(0.894)	34923	50.0000	47.34
50	Toluene	91	9.749	9.749	(0.833)	207682	50.0000	46.93
20	trans-1,2-Dichloroethene	96	4.157	4.157	(0.621)	54663	50.0000	49.85
51	trans-1,3-Dichloropropene	75	10.208	10.208	(1.330)	86414	50.0000	48.49
38	Trichloroethene	130	7.955	7.955	(1.036)	50873	50.0000	47.98
8	Trichlorofluoromethane	101	2.390	2.390	(0.357)	74731	50.0000	47.45
5	Vinyl Chloride	62	1.699	1.699	(0.254)	80754	50.0000	48.23
62	m,p-Xylenes	106	12.054	12.054	(1.030)	172428	100.000	95.32
63	o-Xylene	106	12.613	12.613	(1.078)	81613	50.0000	47.04

QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091802.D
Date : 18-SEP-2010 09:39
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091803.D
Report Date: 23-Sep-2010 14:55

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100918.b\G091803.D
Lab Smp Id: VLCSS1-091810 Client Smp ID: VLCSS1-091810
Inj Date : 18-SEP-2010 10:07 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VLCSS1-091810;VLCSS1-091810;3;;LCS
Misc Info : ;SOIL;0;1;
Comment :
Method : \\ALSHSWS008\Target\chem\voa3.i\G100918.b\8260BS.m
Meth Date : 23-Sep-2010 14:55 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
*	1 Pentafluorobenzene	168	6.688	6.689	(1.000)	94259	50.0000	
*	36 1,4-Difluorobenzene	114	7.680	7.676	(1.000)	177195	50.0000	
*	47 Chlorobenzene-d5	117	11.705	11.706	(1.000)	148355	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.060	15.061	(1.000)	66851	50.0000	
$	30 Dibromofluoromethane	113	6.562	6.557	(0.981)	55141	54.1206	54.12
$	35 1,2-Dichloroethane-d4	65	7.063	7.064	(0.920)	74547	53.0442	53.04
$	48 Toluene-d8	98	9.658	9.659	(0.825)	197773	50.8353	50.83
$	69 4-Bromofluorobenzene	95	13.404	13.405	(1.145)	79273	51.4568	51.45
	31 1,1,1-Trichloroethane	97	6.472	6.473	(0.968)	79168	55.6808	55.68
	68 1,1,2,2-Tetrachloroethane	83	13.699	13.700	(0.910)	57970	50.0251	50.02
	142 Freon TF	101	2.996	2.997	(0.448)	54060	50.1586	50.15
	53 1,1,2-Trichloroethane	83	10.444	10.445	(0.892)	38786	51.2978	51.29
	22 1,1-Dichloroethane	63	4.911	4.906	(0.734)	120600	54.3809	54.38
	11 1,1-Dichloroethene	96	3.027	3.023	(0.453)	47336	50.7705	50.77
	90 1,2,4-Trichlorobenzene	180	17.972	17.968	(1.193)	47596	50.6375	50.63
	89 1,2-Dibromo-3-Chloropropane	155	16.822	16.818	(1.117)	7037	48.4195	48.41
	57 1,2-Dibromoethane	107	11.077	11.083	(0.946)	42842	50.3824	50.38
	88 1,2-Dichlorobenzene	146	15.630	15.625	(1.038)	82023	49.0695	49.06
	33 1,2-Dichloroethane	62	7.174	7.175	(0.934)	85831	52.3091	52.30
	42 1,2-Dichloropropane	63	8.340	8.340	(1.086)	62169	51.5148	51.51

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091803.D
Report Date: 23-Sep-2010 14:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
83	1,3-Dichlorobenzene	146	14.949	14.950	(0.993)	90258	50.6545	50.65
84	1,4-Dichlorobenzene	146	15.097	15.098	(1.002)	90324	49.7278	49.72
24	2-Butanone	43	5.918	5.914	(0.885)	79673	110.989	110.98
52	2-Hexanone	43	10.798	10.793	(0.922)	120063	101.754	101.75
45	4-Methyl-2-Pentanone	43	9.616	9.617	(0.822)	182961	99.1121	99.11
10	Acetone	43	3.212	3.213	(0.480)	51334	111.820	111.81
37	Benzene	78	7.010	7.006	(0.913)	229944	50.6779	50.67
39	Bromodichloromethane	83	8.740	8.741	(1.138)	72378	52.2343	52.23
66	Bromoform	173	12.929	12.935	(1.105)	24611	47.6483	47.64(T)
6	Bromomethane	96	2.046	2.047	(0.306)	53091	48.5767	48.57
19	Carbon Disulfide	76	3.265	3.266	(0.488)	391465	109.635	109.63
34	Carbon Tetrachloride	119	6.651	6.647	(0.866)	57769	52.4166	52.41
59	Chlorobenzene	112	11.742	11.743	(1.003)	131857	50.8666	50.86
7	Chloroethane	64	2.157	2.158	(0.323)	61083	53.4196	53.41
28	Chloroform	83	6.319	6.315	(0.945)	97812	53.8264	53.82
3	Chloromethane	50	1.624	1.620	(0.243)	112512	50.4358	50.43
27	cis-1,2-Dichloroethene	96	5.823	5.824	(0.871)	60508	53.5237	53.52
46	cis-1,3-Dichloropropene	75	9.379	9.380	(1.221)	97309	51.4445	51.44
139	Cyclohexane	56	6.419	6.415	(0.960)	130225	50.2054	50.20
55	Dibromochloromethane	129	10.930	10.931	(0.934)	44093	51.2040	51.20
2	Dichlorodifluoromethane	85	1.418	1.419	(0.212)	40058	42.1050	42.10
61	Ethylbenzene	106	11.879	11.875	(1.015)	69702	52.0491	52.04
67	Isopropylbenzene	105	13.135	13.130	(1.122)	225322	53.1892	53.18
143	Methyl Acetate	43	3.650	3.645	(0.546)	57569	48.8365	48.83
17	Methylene Chloride	84	3.808	3.809	(0.569)	62053	46.4907	46.49
18	Methyl tert-butyl ether	73	4.146	4.141	(0.620)	183064	54.1651	54.16
138	Methylcyclohexane	83	8.097	8.092	(1.211)	93886	51.0981	51.09
64	Styrene	104	12.660	12.661	(1.082)	149582	53.1935	53.19
56	Tetrachloroethene	164	10.455	10.461	(0.893)	36114	51.4778	51.47
50	Toluene	91	9.748	9.749	(0.833)	215085	51.1079	51.10
20	trans-1,2-Dichloroethene	96	4.156	4.157	(0.621)	56639	53.3355	53.33
51	trans-1,3-Dichloropropene	75	10.207	10.208	(1.329)	88640	52.1857	52.18
38	Trichloroethene	130	7.960	7.955	(1.036)	52492	51.9503	51.95
8	Trichlorofluoromethane	101	2.389	2.390	(0.357)	79321	51.7742	51.77
5	Vinyl Chloride	62	1.703	1.699	(0.255)	84187	51.9179	51.91
62	m,p-Xylenes	106	12.059	12.054	(1.030)	176873	102.824	102.82
63	o-Xylene	106	12.612	12.613	(1.078)	84614	51.2846	51.28

QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091803.D
Date : 18-SEP-2010 10:07
Client ID: VLCSS1-091810
Sample Info: VLCSS1-091810;VLCSS1-091810;3;;LCS

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091804.D
Report Date: 23-Sep-2010 14:55

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100918.b\G091804.D
Lab Smp Id: VLCSDS1-091810 Client Smp ID: VLCSDS1-091810
Inj Date : 18-SEP-2010 10:34 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VLCSDS1-091810;VLCSDS1-091810;3;;LCSD
Misc Info : ;SOIL;0;1;
Comment :
Method : \\ALSHSWS008\Target\chem\voa3.i\G100918.b\8260BS.m
Meth Date : 23-Sep-2010 14:55 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

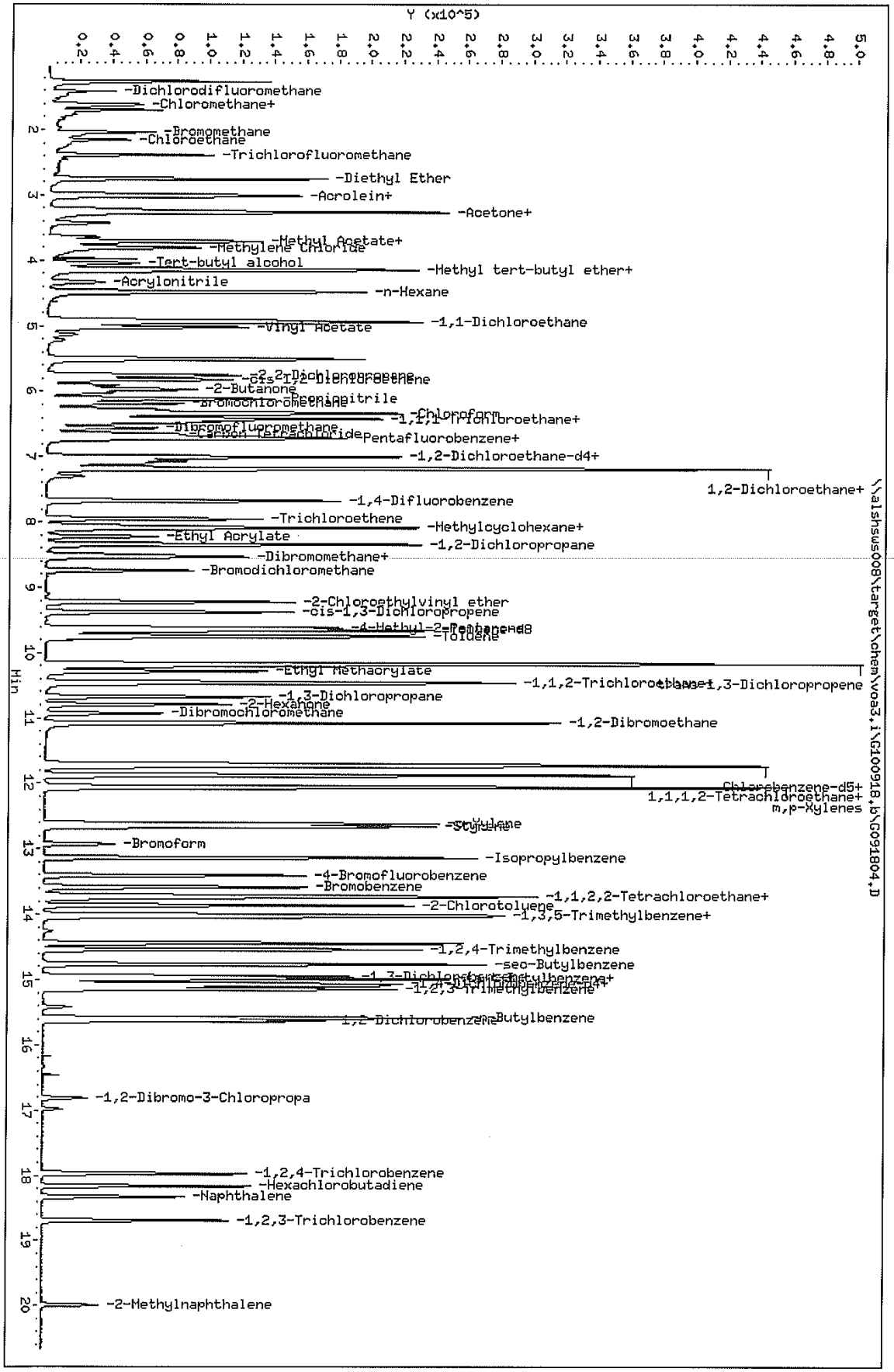
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
*	1 Pentafluorobenzene	168	6.694	6.689	(1.000)	92293	50.0000	
*	36 1,4-Difluorobenzene	114	7.680	7.676	(1.000)	172935	50.0000	
*	47 Chlorobenzene-d5	117	11.705	11.706	(1.000)	141878	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.060	15.061	(1.000)	63894	50.0000	
$	30 Dibromofluoromethane	113	6.562	6.557	(0.980)	53220	53.3478	53.34
$	35 1,2-Dichloroethane-d4	65	7.063	7.064	(0.920)	71350	52.0200	52.02
$	48 Toluene-d8	98	9.658	9.659	(0.825)	190164	51.1109	51.11
$	69 4-Bromofluorobenzene	95	13.409	13.405	(1.146)	75527	51.2634	51.26
	31 1,1,1-Trichloroethane	97	6.477	6.473	(0.968)	80578	57.8797	57.87
	68 1,1,2,2-Tetrachloroethane	83	13.699	13.700	(0.910)	56115	50.6654	50.66
	142 Freon TF	101	2.996	2.997	(0.448)	55140	52.1340	52.13
	53 1,1,2-Trichloroethane	83	10.444	10.445	(0.892)	37394	51.7145	51.71
	22 1,1-Dichloroethane	63	4.911	4.906	(0.734)	120881	55.6687	55.66
	11 1,1-Dichloroethene	96	3.027	3.023	(0.452)	47793	52.2849	52.28
	90 1,2,4-Trichlorobenzene	180	17.972	17.968	(1.193)	47007	52.3253	52.32
	89 1,2-Dibromo-3-Chloropropane	155	16.817	16.818	(1.117)	6481	46.7358	46.73
	57 1,2-Dibromoethane	107	11.083	11.083	(0.947)	43208	53.1325	53.13
	88 1,2-Dichlorobenzene	146	15.630	15.625	(1.038)	81945	51.2917	51.29
	33 1,2-Dichloroethane	62	7.174	7.175	(0.934)	86399	53.9523	53.95
	42 1,2-Dichloropropane	63	8.345	8.340	(1.087)	63084	53.5607	53.56

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091804.D
Report Date: 23-Sep-2010 14:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
83	1,3-Dichlorobenzene	146	14.949	14.950	(0.993)	90367	53.0628	53.06
84	1,4-Dichlorobenzene	146	15.097	15.098	(1.002)	89597	51.6104	51.61
24	2-Butanone	43	5.913	5.914	(0.883)	65974	93.8634	93.86
52	2-Hexanone	43	10.792	10.793	(0.922)	114246	101.245	101.24
45	4-Methyl-2-Pentanone	43	9.616	9.617	(0.822)	173652	98.3637	98.36
10	Acetone	43	3.217	3.213	(0.481)	47592	105.383	105.38
37	Benzene	78	7.010	7.006	(0.913)	233826	52.8029	52.80
39	Bromodichloromethane	83	8.740	8.741	(1.138)	73331	54.2257	54.22
66	Bromoform	173	12.929	12.935	(1.105)	24096	48.7202	48.72(T)
6	Bromomethane	96	2.046	2.047	(0.306)	52687	49.2340	49.23
19	Carbon Disulfide	76	3.265	3.266	(0.488)	398628	114.020	114.01
34	Carbon Tetrachloride	119	6.646	6.647	(0.865)	59199	55.0372	55.03
59	Chlorobenzene	112	11.742	11.743	(1.003)	133048	53.6692	53.66
7	Chloroethane	64	2.157	2.158	(0.322)	62873	56.1564	56.15
28	Chloroform	83	6.319	6.315	(0.944)	99471	55.9054	55.90
3	Chloromethane	50	1.619	1.620	(0.242)	113221	51.8348	51.83
27	cis-1,2-Dichloroethene	96	5.828	5.824	(0.871)	61708	55.7480	55.74
46	cis-1,3-Dichloropropene	75	9.379	9.380	(1.221)	97068	52.5812	52.58
139	Cyclohexane	56	6.419	6.415	(0.959)	132845	52.1966	52.19
55	Dibromochloromethane	129	10.930	10.931	(0.934)	43204	52.4621	52.46
2	Dichlorodifluoromethane	85	1.418	1.419	(0.212)	44630	47.6264	47.62
61	Ethylbenzene	106	11.879	11.875	(1.015)	70171	54.7914	54.79
67	Isopropylbenzene	105	13.135	13.130	(1.122)	228399	56.3769	56.37
143	Methyl Acetate	43	3.650	3.645	(0.545)	55482	48.0686	48.06
17	Methylene Chloride	84	3.808	3.809	(0.569)	63889	48.8859	48.88
18	Methyl tert-butyl ether	73	4.146	4.141	(0.619)	178509	53.9424	53.94
138	Methylcyclohexane	83	8.091	8.092	(1.209)	96776	53.6393	53.63
64	Styrene	104	12.660	12.661	(1.082)	148544	55.2359	55.23
56	Tetrachloroethene	164	10.460	10.461	(0.894)	35637	53.1169	53.11
50	Toluene	91	9.753	9.749	(0.833)	216611	53.8202	53.82
20	trans-1,2-Dichloroethene	96	4.161	4.157	(0.622)	57632	55.4267	55.42
51	trans-1,3-Dichloropropene	75	10.207	10.208	(1.329)	88636	53.4688	53.46
38	Trichloroethene	130	7.960	7.955	(1.036)	52935	53.6792	53.67
8	Trichlorofluoromethane	101	2.389	2.390	(0.357)	78913	52.5664	52.56
5	Vinyl Chloride	62	1.703	1.699	(0.255)	86392	54.4127	54.41
62	m,p-Xylenes	106	12.053	12.054	(1.030)	178697	108.627	108.62
63	o-Xylene	106	12.618	12.613	(1.078)	85552	54.2203	54.22

QC Flag Legend

T - Target compound detected outside RT window.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Date : 18-SEP-2010 10:34
Client ID: VLCSDS1-091810
Sample Info: VLCSDS1-091810;VLCSDS1-091810;3;;LCSD
Column phase: DB624
Instrument: VOA3.i
Operator: WLR
Column diameter: 0.18
Y (x10^5)
Min
\\alshsws008\target\chem\voa3.i\G100918.b\G091804.D
-Dichlorodifluoromethane
-Chloromethane+
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Diethyl Ether
-Acrolein+
-Acetone+
-Methyl Acetate+
-Methylene Chloride
-Tert-butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate
-2,2-Dichloropropane
-cis-1,2-Dichloroethene
-2-Butanone
-Propionitrile
Bromochloromethane
-Chloroform
-1,1,1-Trichloroethane+
-Dibromofluoromethane
-Carbon Tetrachloride
Pentafluorobenzene+
-1,2-Dichloroethane-d4+
1,2-Dichloroethane+
-1,4-Difluorobenzene
-Trichloroethene
-Methylcyclohexane+
-Ethyl Acrylate
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone-d8
-Toluene
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-trans-1,3-Dichloropropene
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-Styrene
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene+
-4-Isopropyltoluene+
-1,2,3-Trimethylbenzene
-1,2-Dichlorobenzene
-n-Butylbenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091806.D
Report Date: 23-Sep-2010 14:55

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100918.b\G091806.D
Lab Smp Id: VBLKS1-091810 Client Smp ID: VBLKS1-091810
Inj Date : 18-SEP-2010 11:28 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : VBLKS1-091810;VBLKS1-091810;3;;BLANK
Misc Info : ;SOIL;0;1;
Comment :
Method : \\ALSHSWS008\Target\chem\voa3.i\G100918.b\8260BS.m
Meth Date : 23-Sep-2010 14:55 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

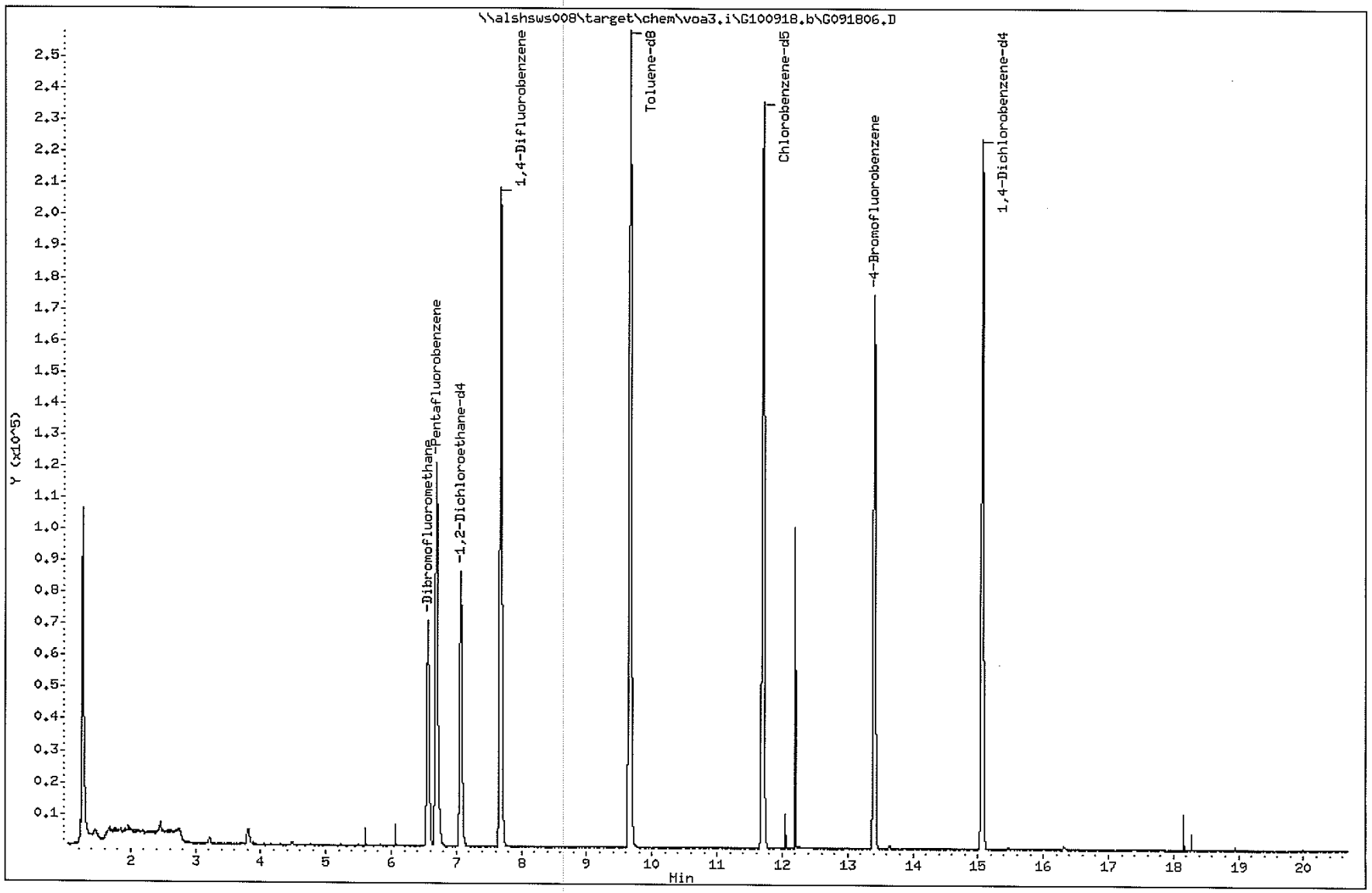
Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
*	1 Pentafluorobenzene	168	6.691	6.689	(1.000)	99779	50.0000	
*	36 1,4-Difluorobenzene	114	7.677	7.676	(1.000)	185879	50.0000	
*	47 Chlorobenzene-d5	117	11.702	11.706	(1.000)	154548	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.063	15.061	(1.000)	69943	50.0000	
$	30 Dibromofluoromethane	113	6.564	6.557	(0.981)	55917	51.8460	51.84
$	35 1,2-Dichloroethane-d4	65	7.066	7.064	(0.920)	77873	52.8221	52.82
$	48 Toluene-d8	98	9.661	9.659	(0.826)	207212	51.1272	51.12
$	69 4-Bromofluorobenzene	95	13.406	13.405	(1.146)	81701	50.9078	50.90

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091806.D
Date : 18-SEP-2010 11:28
Client ID: VBLKS1-091810
Sample Info: VBLKS1-091810;VBLKS1-091810;3;;BLANK

Instrument: VOA3.i

Operator: WLR
Column phase: DB624
Column diameter: 0.18



Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091807.D
Report Date: 23-Sep-2010 14:55

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100918.b\G091807.D
Lab Smp Id: 1009543-15A Client Smp ID: 1009543-15A
Inj Date : 18-SEP-2010 11:55 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : 1009543-15A;1009543-15A;;;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\ALSHSWS008\Target\chem\voa3.i\G100918.b\8260BS.m
Meth Date : 23-Sep-2010 14:55 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

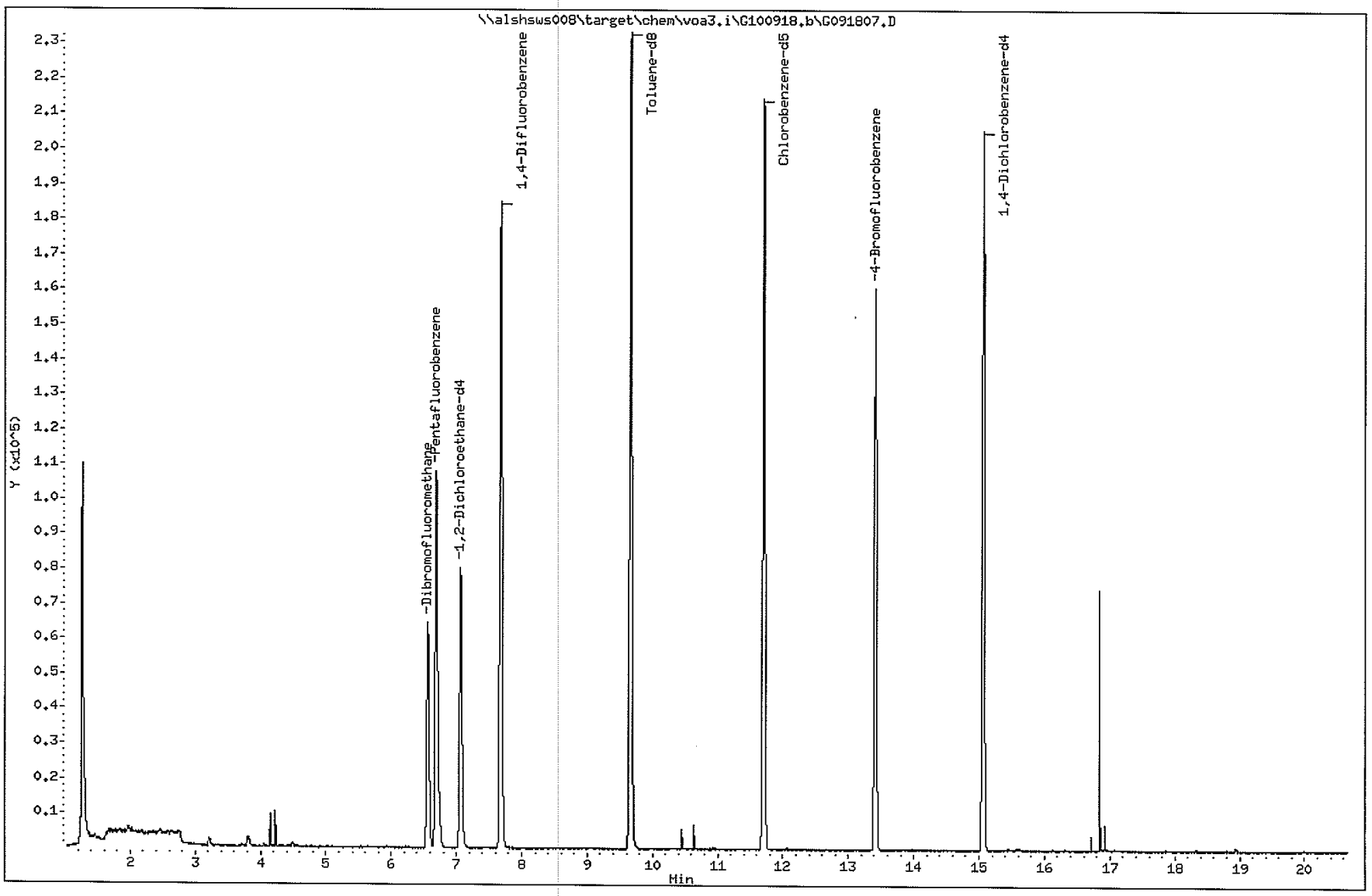
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
*	1 Pentafluorobenzene	168	6.692	6.689	(1.000)	92253	50.0000	
*	36 1,4-Difluorobenzene	114	7.678	7.676	(1.000)	170186	50.0000	
*	47 Chlorobenzene-d5	117	11.708	11.706	(1.000)	141076	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.063	15.061	(1.000)	63866	50.0000	
$	30 Dibromofluoromethane	113	6.565	6.557	(0.981)	51530	51.6762	51.67
$	35 1,2-Dichloroethane-d4	65	7.066	7.064	(0.920)	72773	53.9145	53.91
$	48 Toluene-d8	98	9.662	9.659	(0.825)	189385	51.1909	51.19
$	69 4-Bromofluorobenzene	95	13.407	13.405	(1.145)	75382	51.4558	51.45

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091807.D
Date : 18-SEP-2010 11:55
Client ID: 1009543-15A
Sample Info: 1009543-15A;1009543-15A;;;

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624



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Report Date: 23-Sep-2010 14:55

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100918.b\G091809.D
Lab Smp Id: 1009543-09A Client Smp ID: 1009543-09A
Inj Date : 18-SEP-2010 12:50 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : 1009543-09A;1009543-09A;;;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\ALSHSWS008\Target\chem\voa3.i\G100918.b\8260BS.m
Meth Date : 23-Sep-2010 14:55 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	19.100	% moisture
Vt	5.000	Purge Volume (ml)
Ws	6.540	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
* 1 Pentafluorobenzene	168	6.693	6.689	(1.000)	87674	50.0000	
* 36 1,4-Difluorobenzene	114	7.679	7.676	(1.000)	164039	50.0000	
* 47 Chlorobenzene-d5	117	11.704	11.706	(1.000)	136205	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	15.065	15.061	(1.000)	60748	50.0000	
$ 30 Dibromofluoromethane	113	6.561	6.557	(0.980)	51351	54.1862	51.20
$ 35 1,2-Dichloroethane-d4	65	7.062	7.064	(0.920)	69868	53.7020	50.74
$ 48 Toluene-d8	98	9.663	9.659	(0.826)	182580	51.1164	48.30
$ 69 4-Bromofluorobenzene	95	13.408	13.405	(1.146)	72491	51.2520	48.43
10 Acetone	43	3.211	3.213	(0.480)	5870	5.65232	5.34(a)
19 Carbon Disulfide	76	3.269	3.266	(0.489)	16044	4.83084	4.56(a)

QC Flag Legend

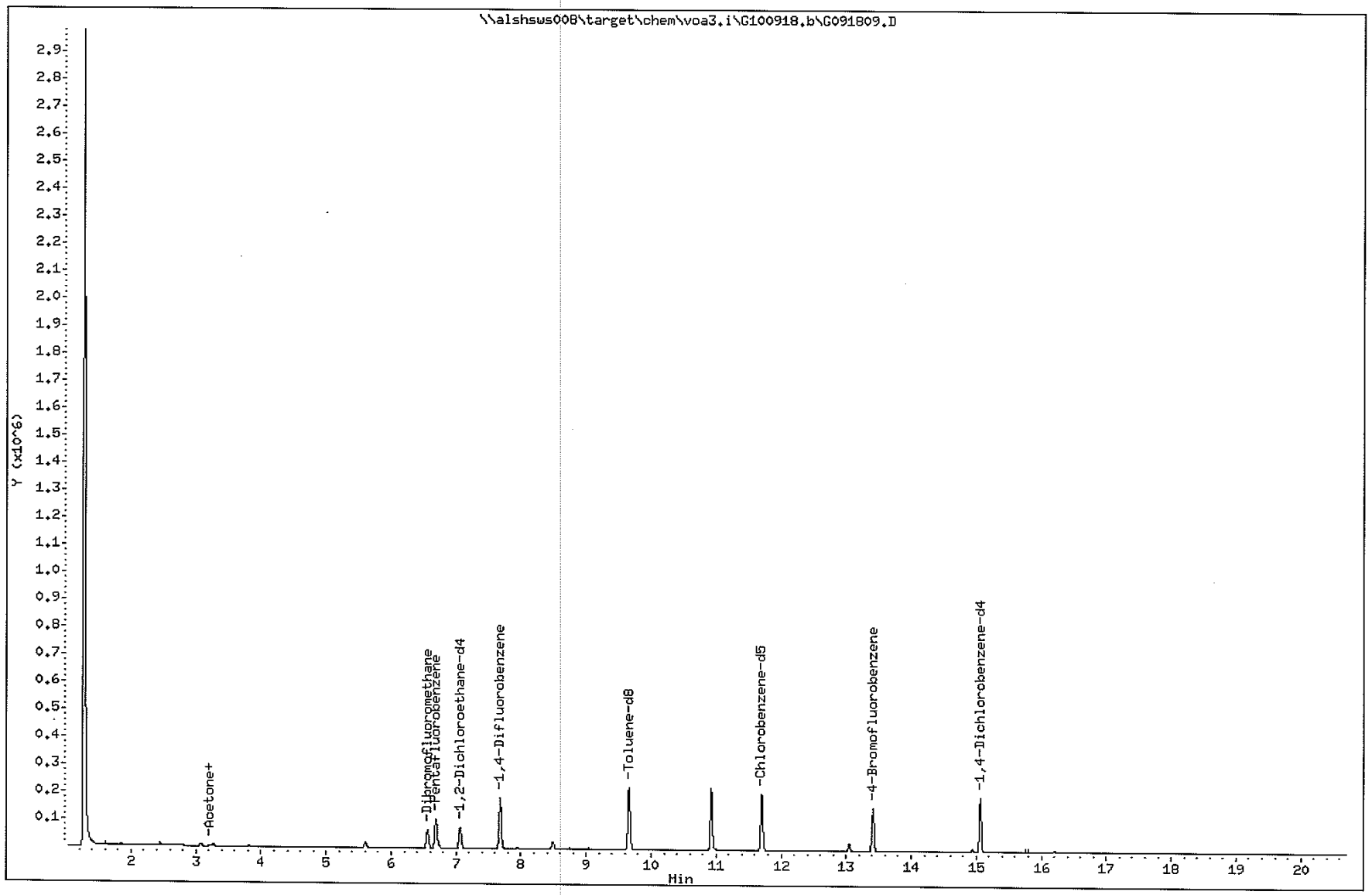
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091809.D
Date : 18-SEP-2010 12:50
Client ID: 1009543-09A
Sample Info: 1009543-09A;1009543-09A;;;

Column phase: DB624

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18



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Date : 18-SEP-2010 12:50

Client ID: 1009543-09A

Instrument: VOA3.i

Sample Info: 1009543-09A;1009543-09A;;;

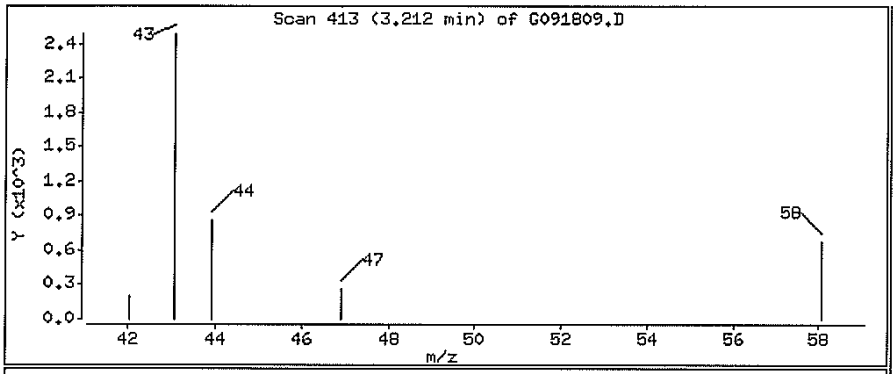
Operator: WLR

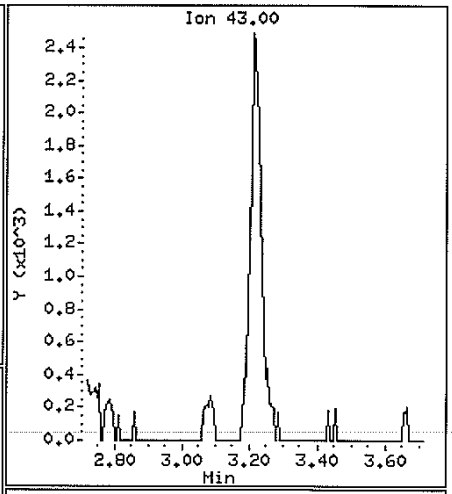
Column phase: DB624

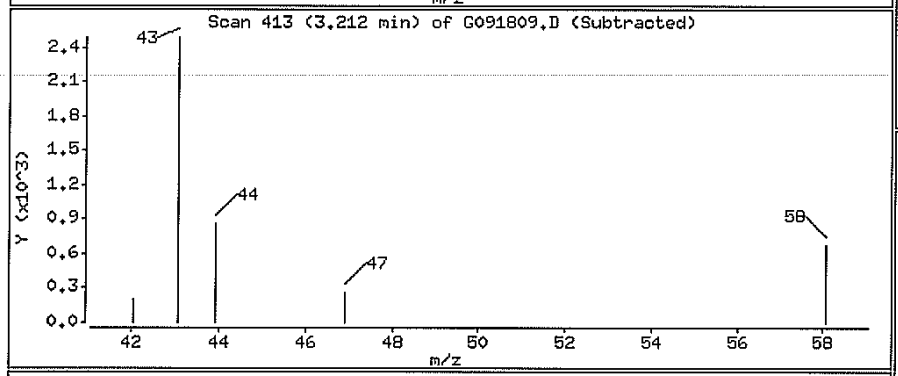
Column diameter: 0.18

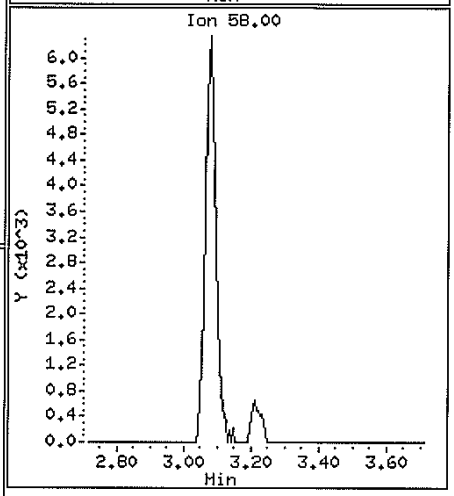
10 Acetone

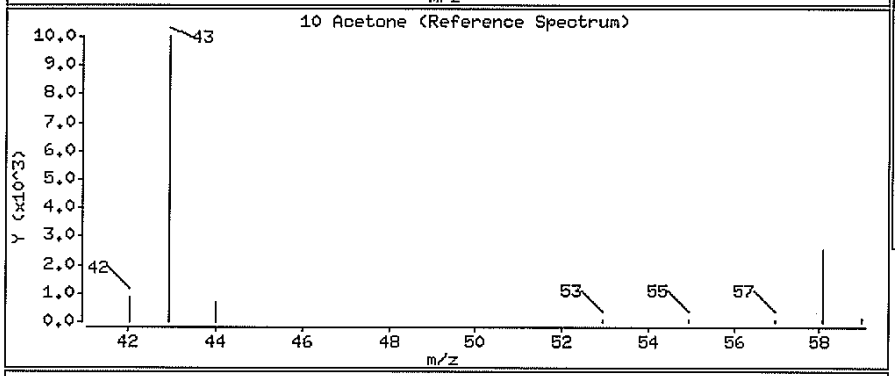
Concentration: 5.34 ug/Kg

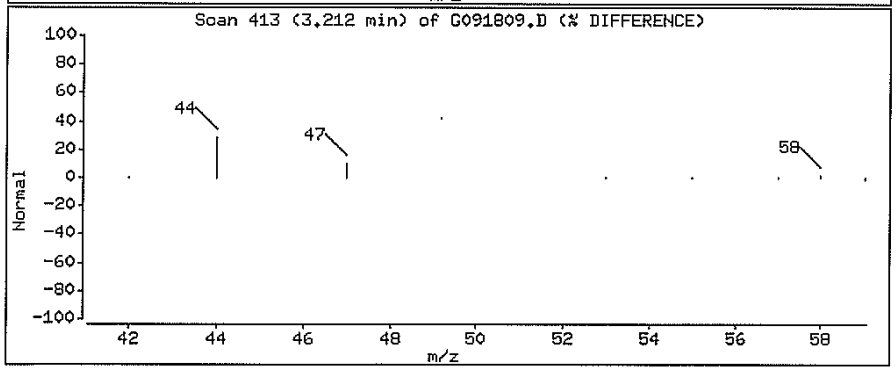












Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091809.D

Date : 18-SEP-2010 12:50

Client ID: 1009543-09A

Instrument: VOA3.i

Sample Info: 1009543-09A;1009543-09A;;;

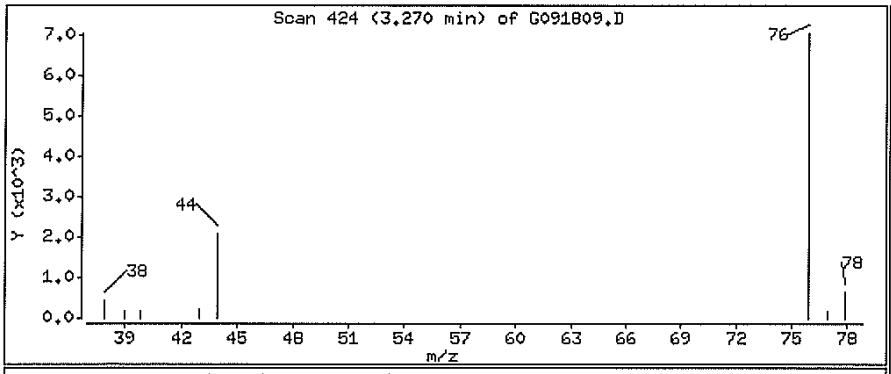
Operator: WLR

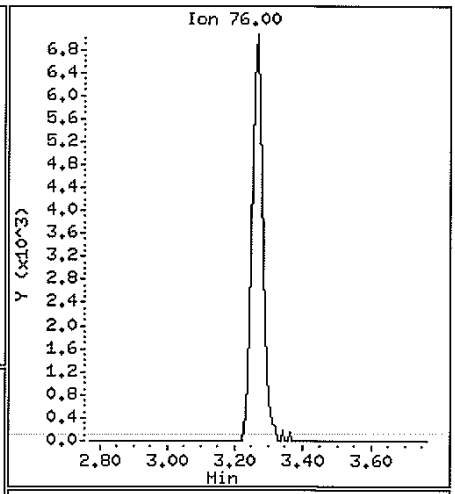
Column phase: DB624

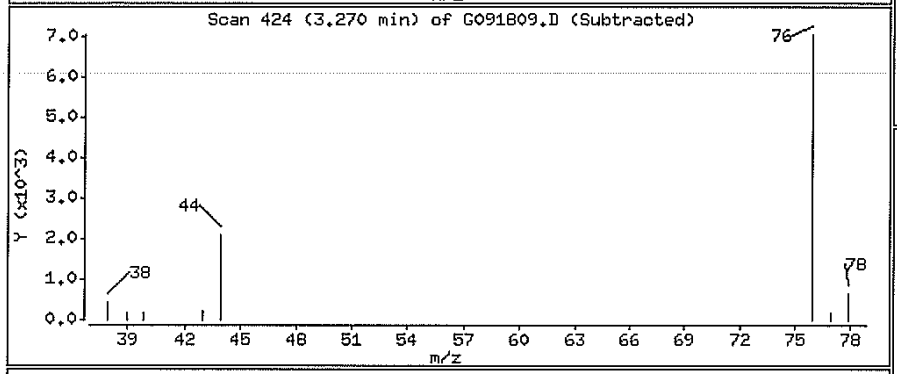
Column diameter: 0.18

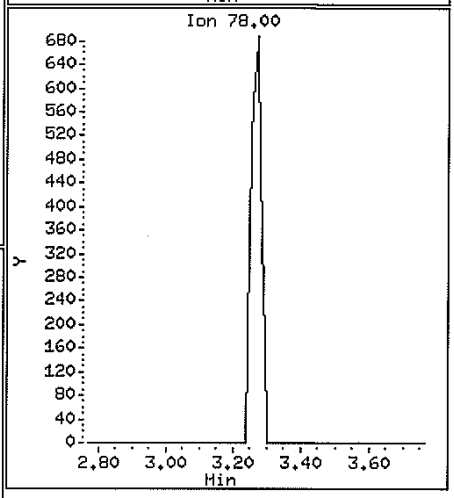
19 Carbon Disulfide

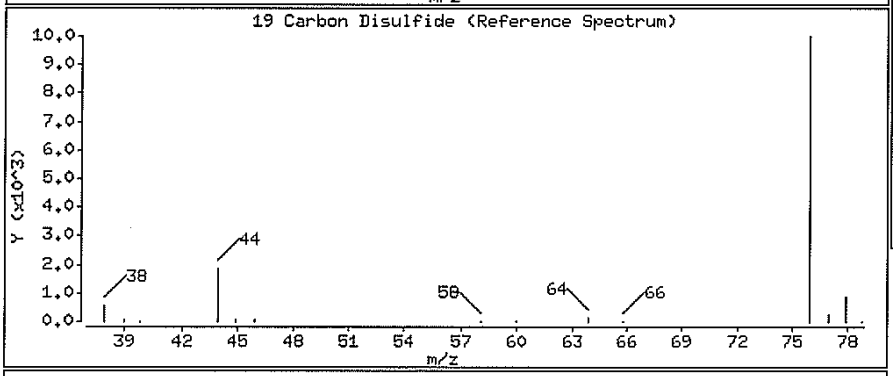
Concentration: 4.56 ug/Kg

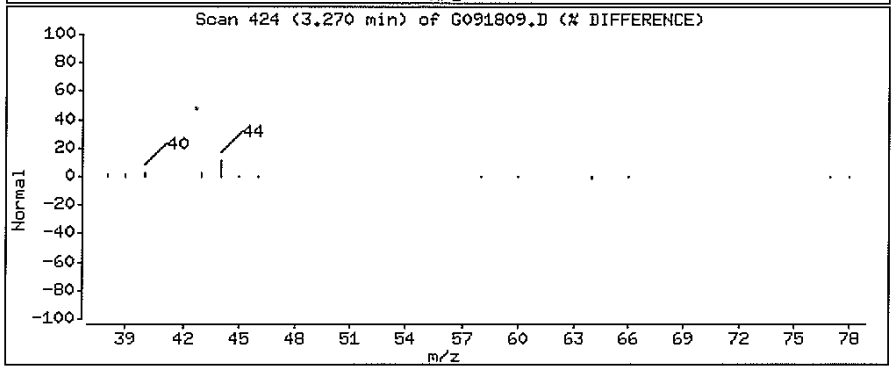












Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091810.D
Report Date: 23-Sep-2010 14:55

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100918.b\G091810.D
Lab Smp Id: 1009543-06A Client Smp ID: 1009543-06A
Inj Date : 18-SEP-2010 13:17 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : 1009543-06A;1009543-06A;;;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\ALSHSWS008\Target\chem\voa3.i\G100918.b\8260BS.m
Meth Date : 23-Sep-2010 14:55 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	14.100	% moisture
Vt	5.000	Purge Volume (ml)
Ws	7.040	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
*	1 Pentafluorobenzene	168	6.690	6.689	(1.000)	88726	50.0000	
*	36 1,4-Difluorobenzene	114	7.681	7.676	(1.000)	166487	50.0000	
*	47 Chlorobenzene-d5	117	11.701	11.706	(1.000)	138790	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.067	15.061	(1.000)	62655	50.0000	
$	30 Dibromofluoromethane	113	6.558	6.557	(0.980)	53184	55.4550	45.85
$	35 1,2-Dichloroethane-d4	65	7.064	7.064	(0.920)	74280	56.2537	46.51
$	48 Toluene-d8	98	9.660	9.659	(0.826)	185616	50.9985	42.16
$	69 4-Bromofluorobenzene	95	13.405	13.405	(1.146)	75047	52.0709	43.05
	10 Acetone	43	3.213	3.213	(0.480)	6574	7.23869	5.98(a)
	19 Carbon Disulfide	76	3.261	3.266	(0.487)	13114	3.90180	3.22(a)

QC Flag Legend

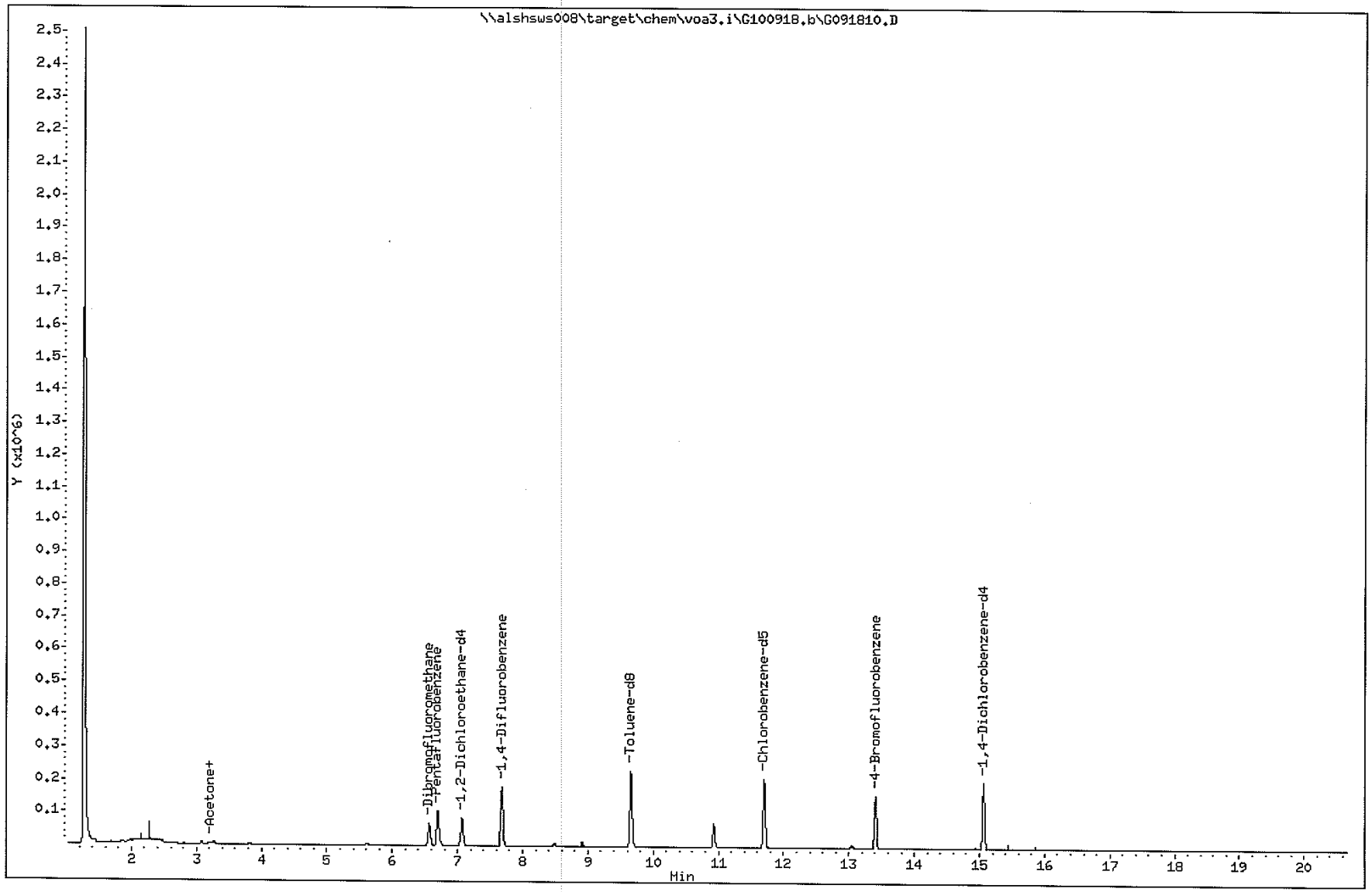
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091810.D
Date : 18-SEP-2010 13:17
Client ID: 1009543-06A
Sample Info: 1009543-06A;1009543-06A;;;

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624



Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091810.D

Date : 18-SEP-2010 13:17

Client ID: 1009543-06A

Instrument: VOA3.i

Sample Info: 1009543-06A;1009543-06A;;;

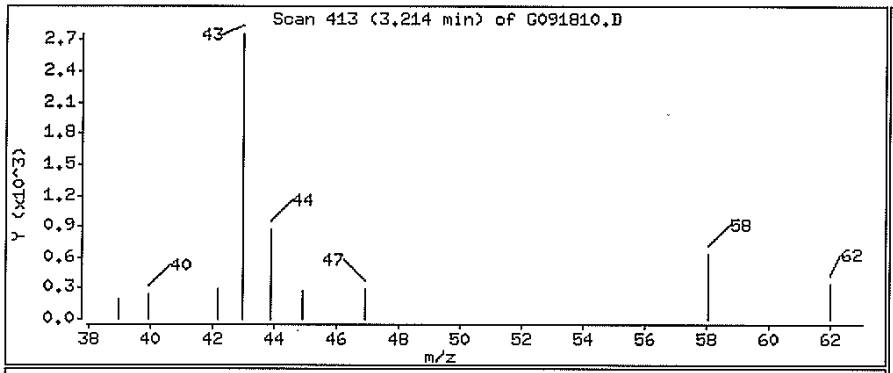
Operator: WLR

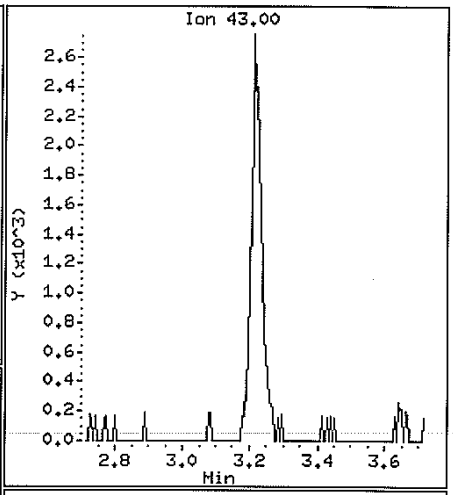
Column phase: DB624

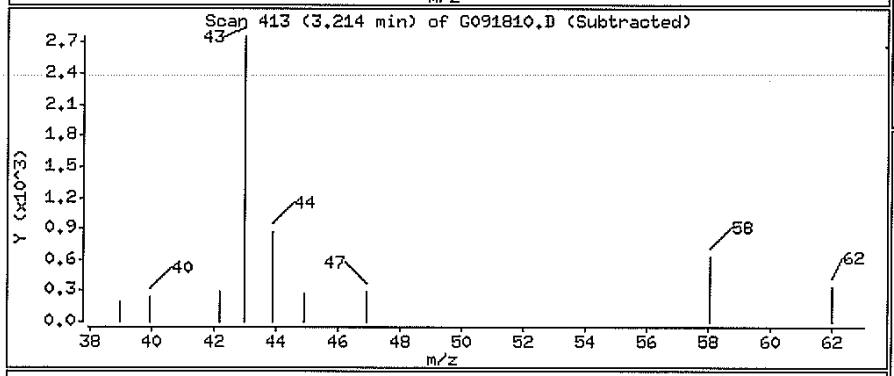
Column diameter: 0.18

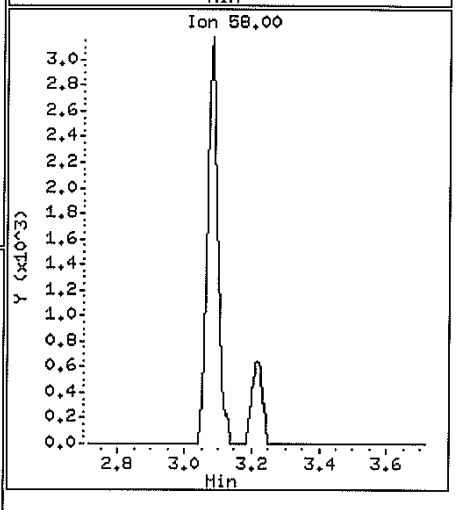
10 Acetone

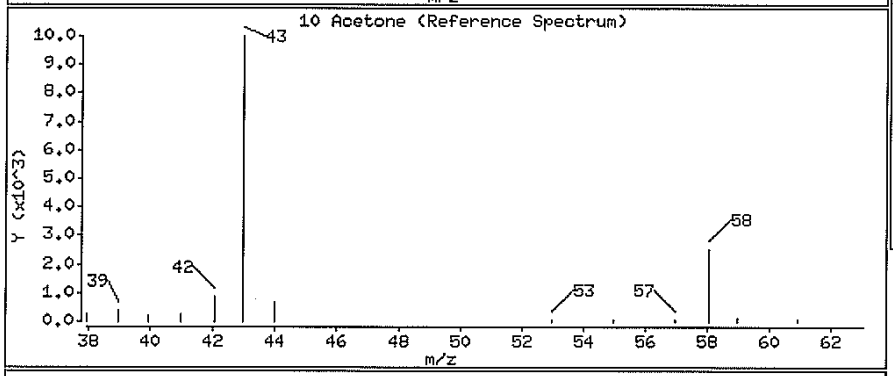
Concentration: 5.98 ug/Kg

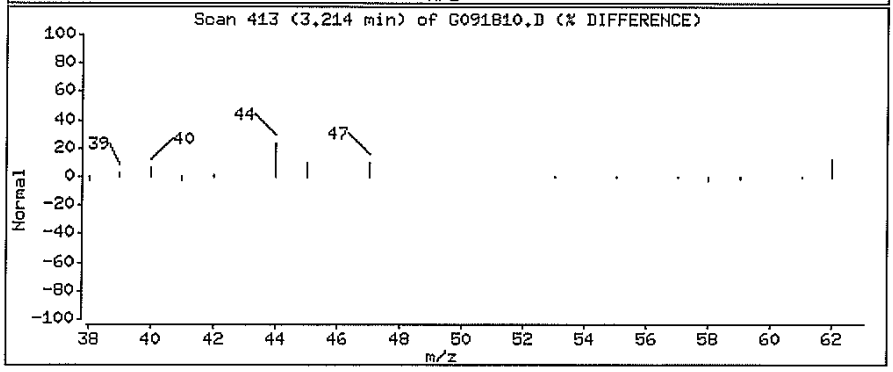












Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091810.D

Date : 18-SEP-2010 13:17

Client ID: 1009543-06A

Instrument: VOA3.i

Sample Info: 1009543-06A;1009543-06A;;;

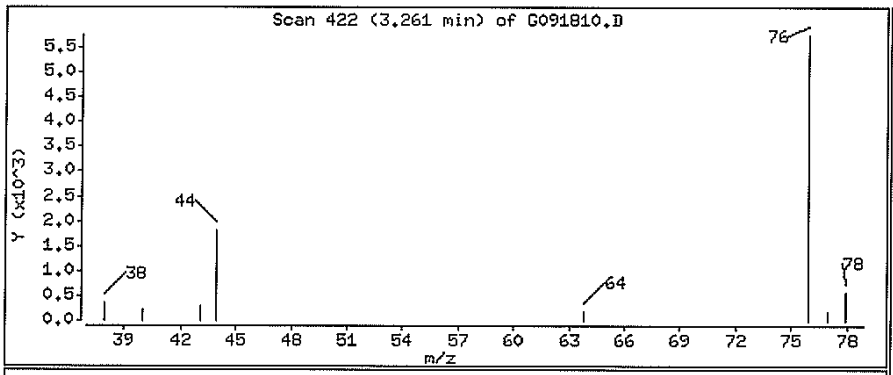
Operator: WLR

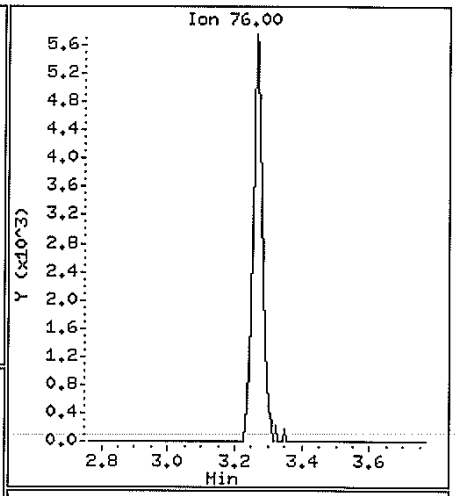
Column phase: DB624

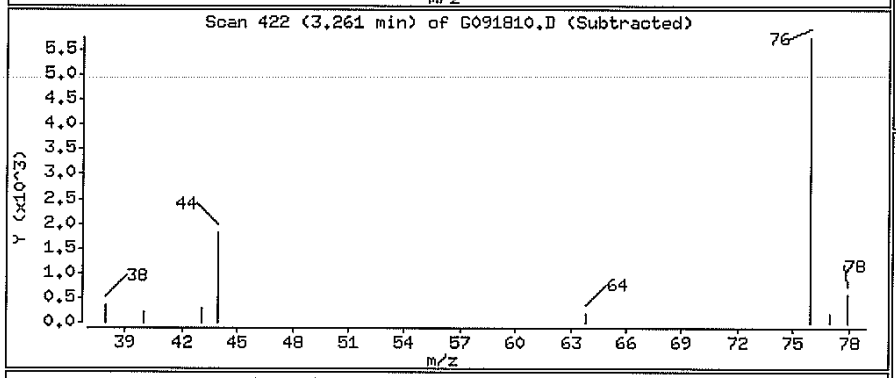
Column diameter: 0.18

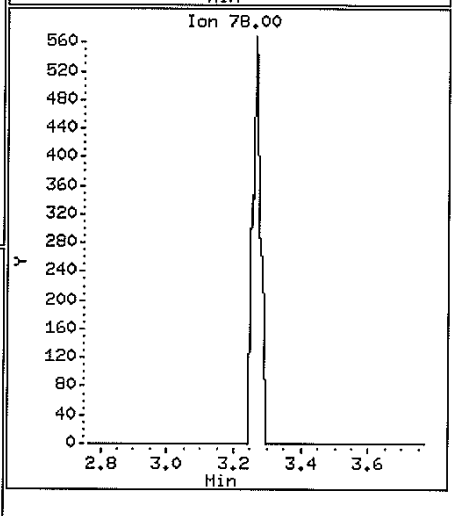
19 Carbon Disulfide

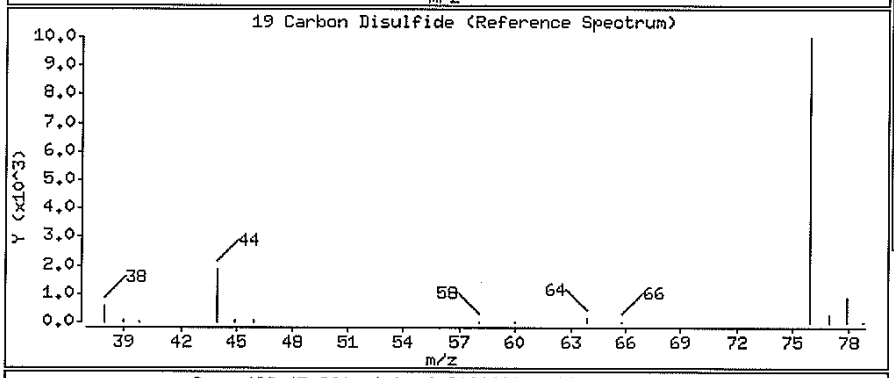
Concentration: 3.22 ug/Kg

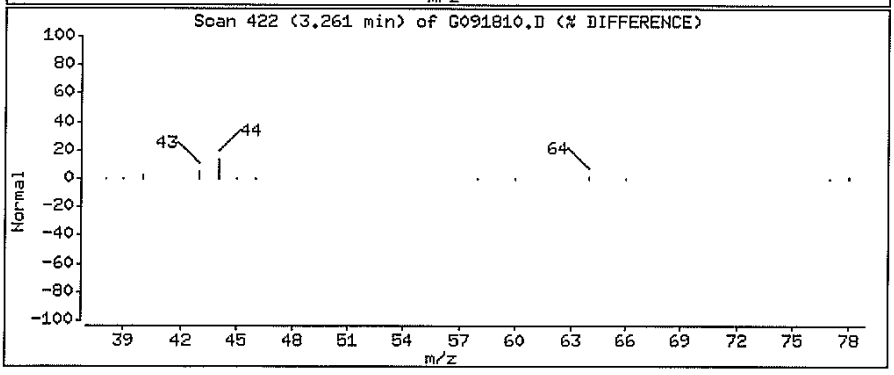












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Report Date: 23-Sep-2010 14:55

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100918.b\G091811.D
Lab Smp Id: 1009543-01A Client Smp ID: 1009543-01A
Inj Date : 18-SEP-2010 13:44 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : 1009543-01A;1009543-01A;;;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\ALSHSWS008\Target\chem\voa3.i\G100918.b\8260BS.m
Meth Date : 23-Sep-2010 14:55 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	70.800	% moisture
Vt	5.000	Purge Volume (ml)
Ws	6.370	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
* 1 Pentafluorobenzene	168	6.690	6.689	(1.000)	92340	50.0000	
* 36 1,4-Difluorobenzene	114	7.682	7.676	(1.000)	171378	50.0000	
* 47 Chlorobenzene-d5	117	11.707	11.706	(1.000)	136827	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	15.067	15.061	(1.000)	52741	50.0000	
$ 30 Dibromofluoromethane	113	6.564	6.557	(0.981)	55046	55.1501	148.24
$ 35 1,2-Dichloroethane-d4	65	7.065	7.064	(0.920)	74401	54.7373	147.14
$ 48 Toluene-d8	98	9.660	9.659	(0.825)	191220	52.5242	141.19
$ 69 4-Bromofluorobenzene	95	13.405	13.405	(1.145)	69509	48.2156	129.60
24 2-Butanone	43	5.920	5.914	(0.885)	8065	11.4685	30.82
10 Acetone	43	3.214	3.213	(0.480)	32321	68.5568	184.28
19 Carbon Disulfide	76	3.267	3.266	(0.488)	19345	5.53044	14.86(a)

QC Flag Legend

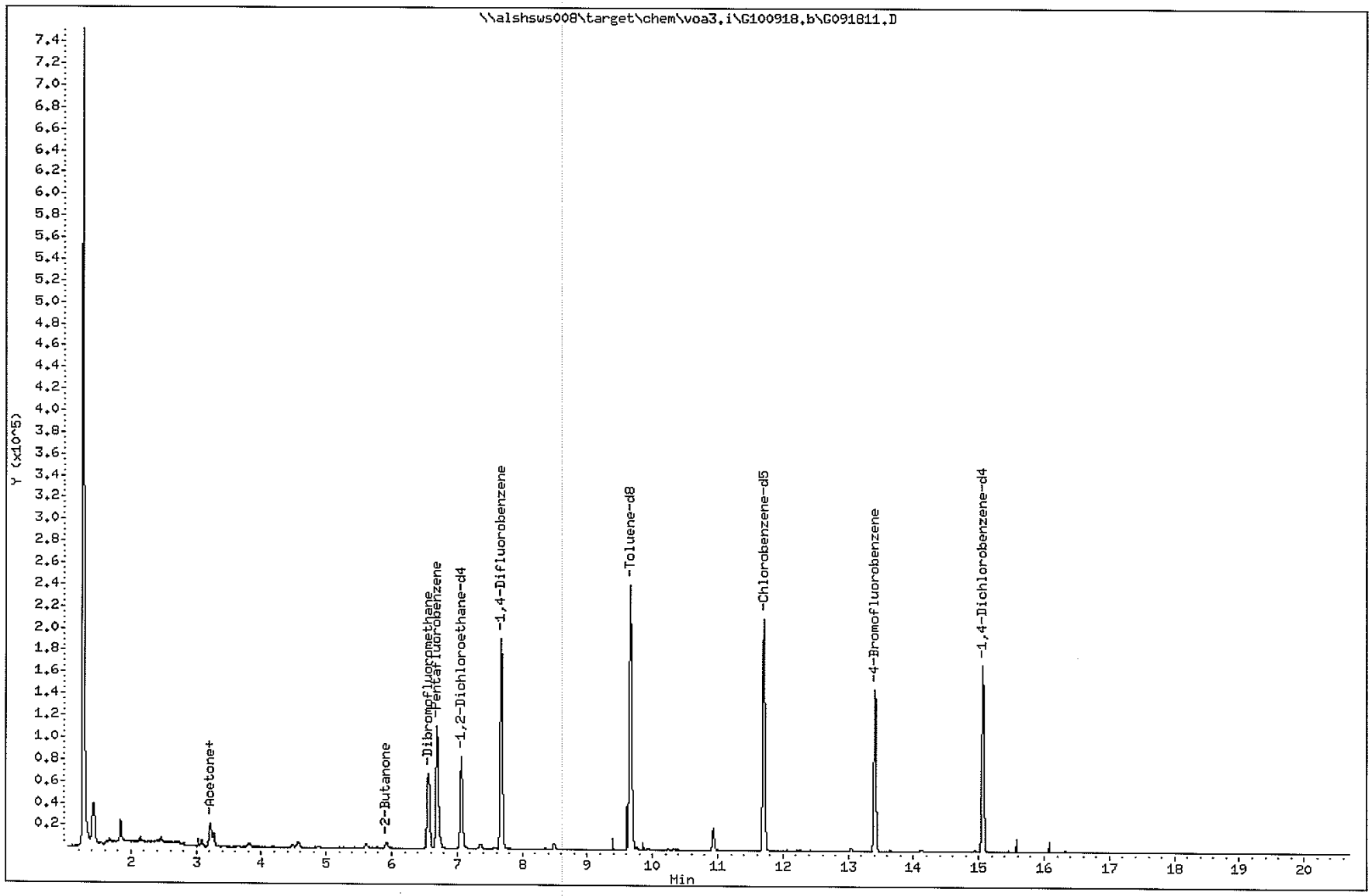
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091811.D
Date : 18-SEP-2010 13:44
Client ID: 1009543-01A
Sample Info: 1009543-01A;1009543-01A;;;

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18

Column phase: DB624



Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091811.D

Date : 18-SEP-2010 13:44

Client ID: 1009543-01A

Instrument: VOA3.i

Sample Info: 1009543-01A;1009543-01A;;;

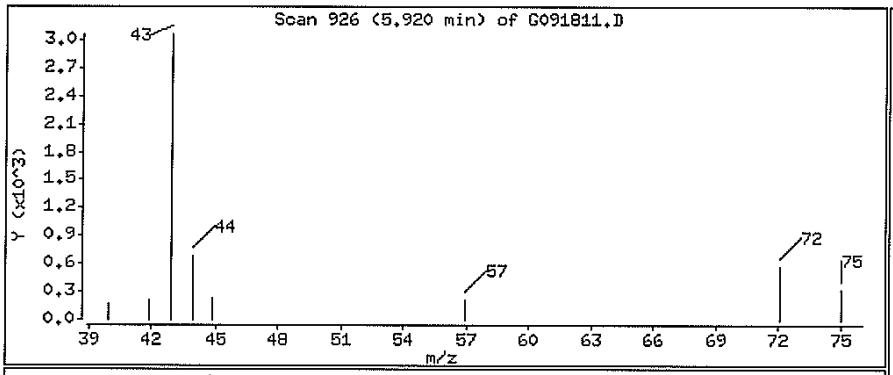
Operator: WLR

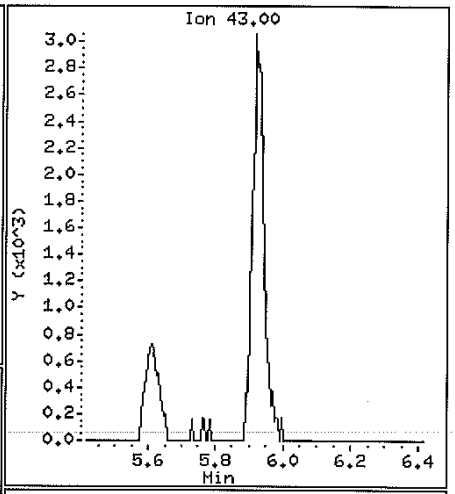
Column phase: DB624

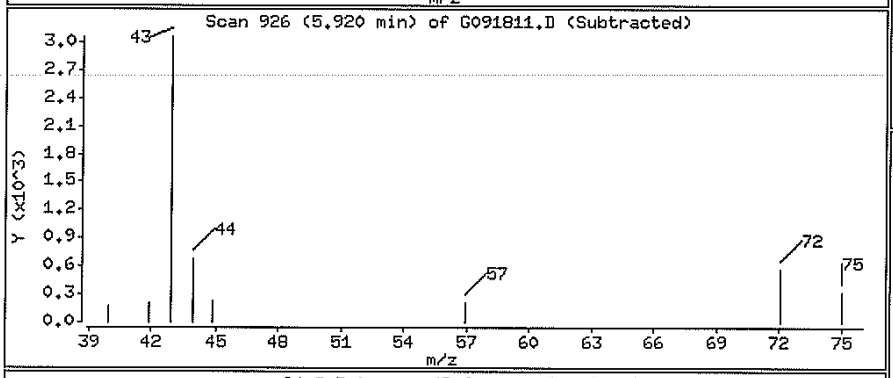
Column diameter: 0.18

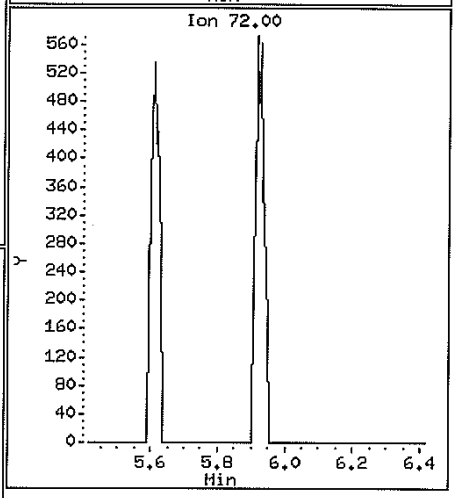
24 2-Butanone

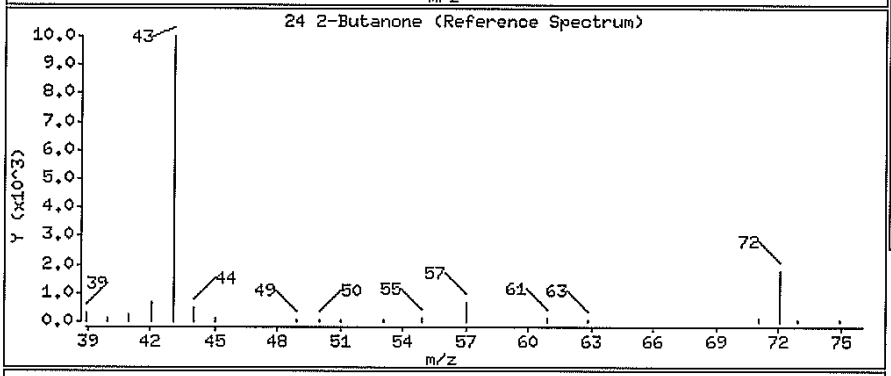
Concentration: 30.82 ug/Kg

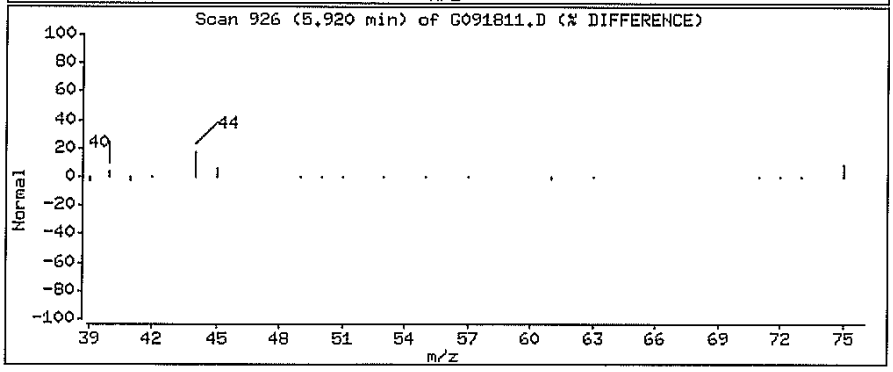












Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091811.D

Date : 18-SEP-2010 13:44

Client ID: 1009543-01A

Instrument: VOA3.i

Sample Info: 1009543-01A;1009543-01A;;;

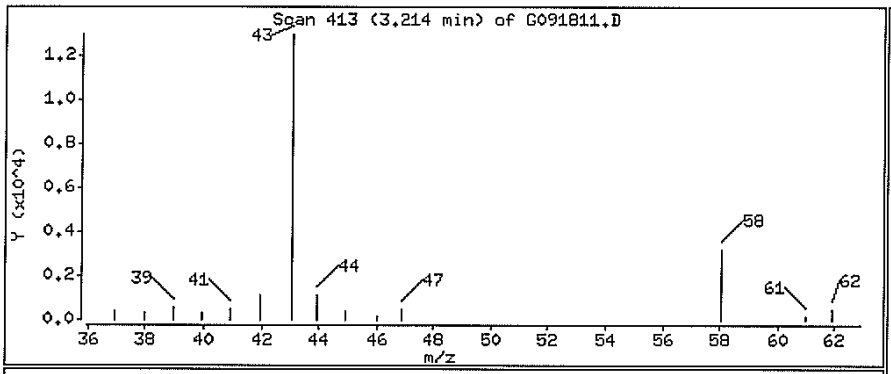
Operator: WLR

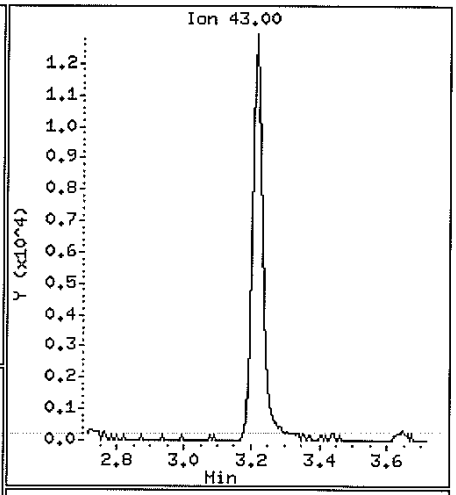
Column phase: DB624

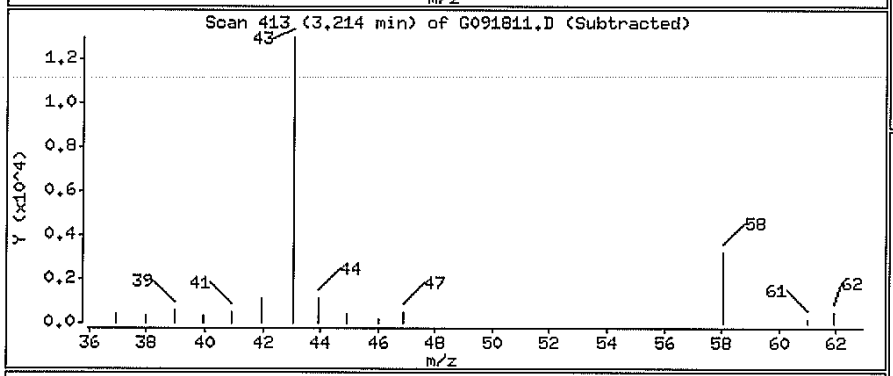
Column diameter: 0.18

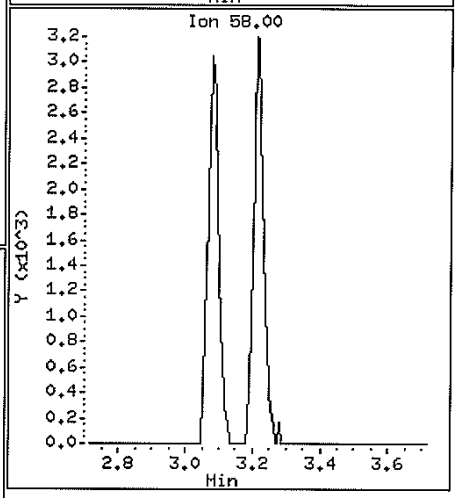
10 Acetone

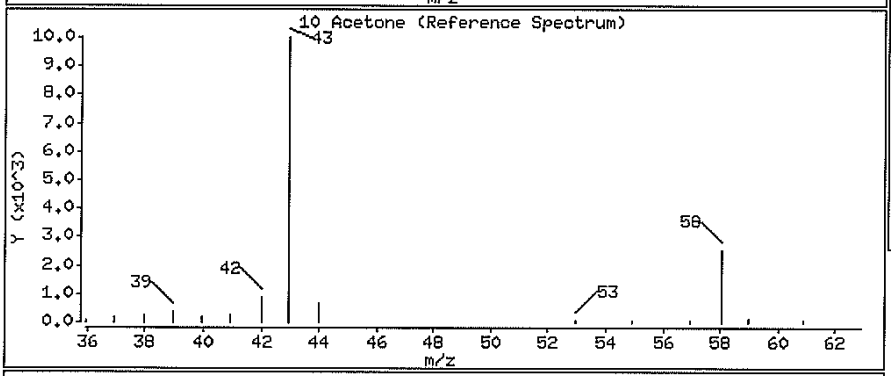
Concentration: 184.28 ug/Kg

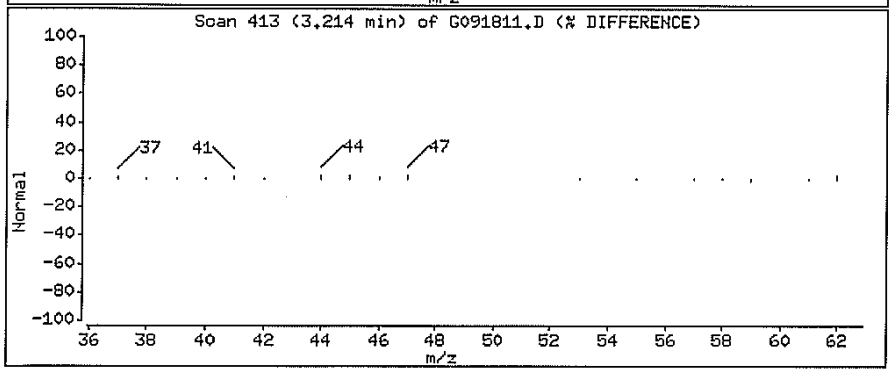












Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091811.D

Date : 18-SEP-2010 13:44

Client ID: 1009543-01A

Instrument: VOA3.i

Sample Info: 1009543-01A;1009543-01A;;;

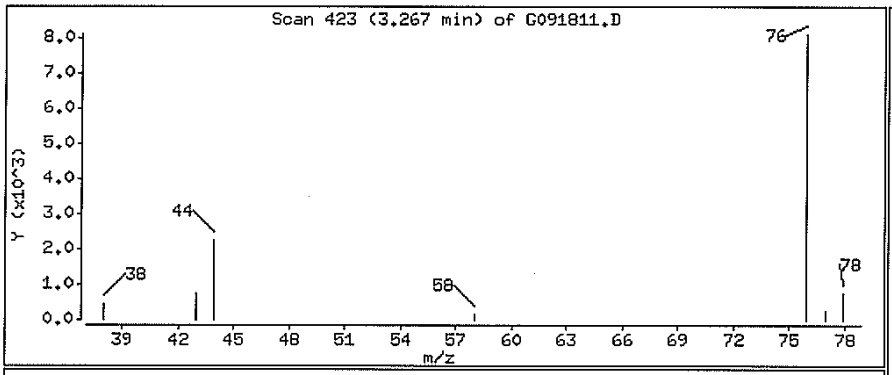
Operator: WLR

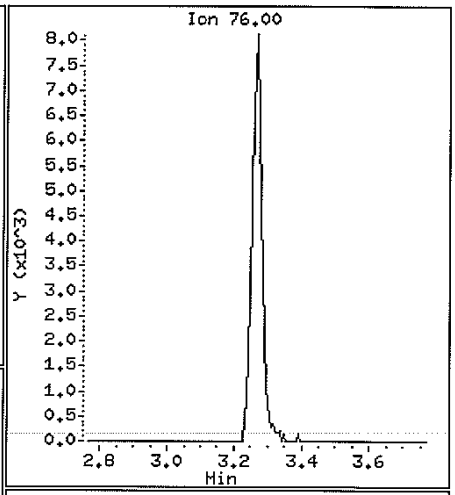
Column phase: DB624

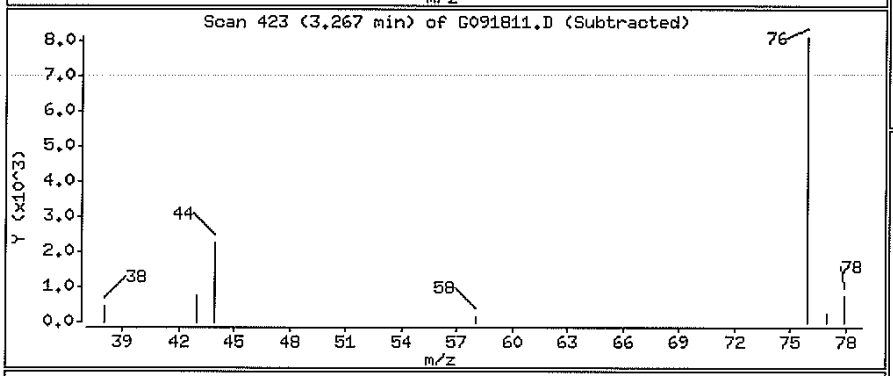
Column diameter: 0.18

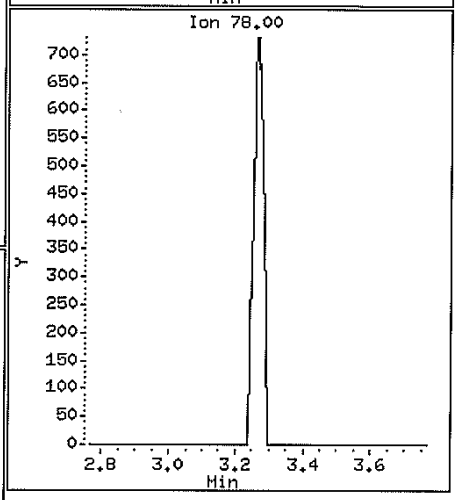
19 Carbon Disulfide

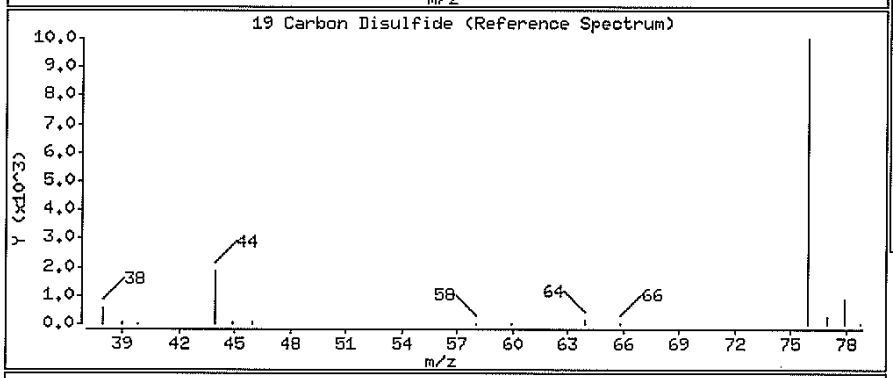
Concentration: 14.86 ug/Kg

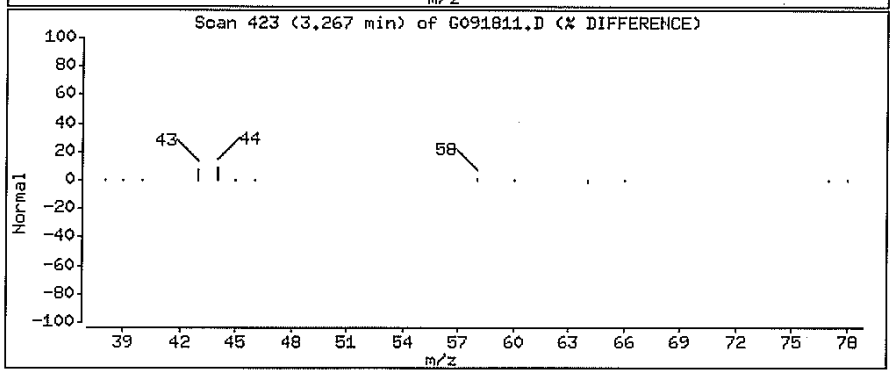












Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091812.D
Report Date: 23-Sep-2010 14:55

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100918.b\G091812.D
Lab Smp Id: 1009543-03A Client Smp ID: 1009543-03A
Inj Date : 18-SEP-2010 14:11 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : 1009543-03A;1009543-03A;;;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\ALSHSWS008\Target\chem\voa3.i\G100918.b\8260BS.m
Meth Date : 23-Sep-2010 14:55 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	61.600	% moisture
Vt	5.000	Purge Volume (ml)
Ws	4.450	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
* 1 Pentafluorobenzene	168	6.693	6.689	(1.000)	86931	50.0000	
* 36 1,4-Difluorobenzene	114	7.680	7.676	(1.000)	163160	50.0000	
* 47 Chlorobenzene-d5	117	11.705	11.706	(1.000)	130829	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	15.065	15.061	(1.000)	48669	50.0000	
$ 30 Dibromofluoromethane	113	6.561	6.557	(0.980)	51802	55.1293	161.31
$ 35 1,2-Dichloroethane-d4	65	7.063	7.064	(0.920)	70699	54.6335	159.85
$ 48 Toluene-d8	98	9.663	9.659	(0.826)	180613	52.6436	154.03
$ 69 4-Bromofluorobenzene	95	13.409	13.405	(1.146)	64599	47.5490	139.12
10 Acetone	43	3.217	3.213	(0.481)	20657	43.5753	127.50
19 Carbon Disulfide	76	3.264	3.266	(0.488)	18920	5.74549	16.81(a)

QC Flag Legend

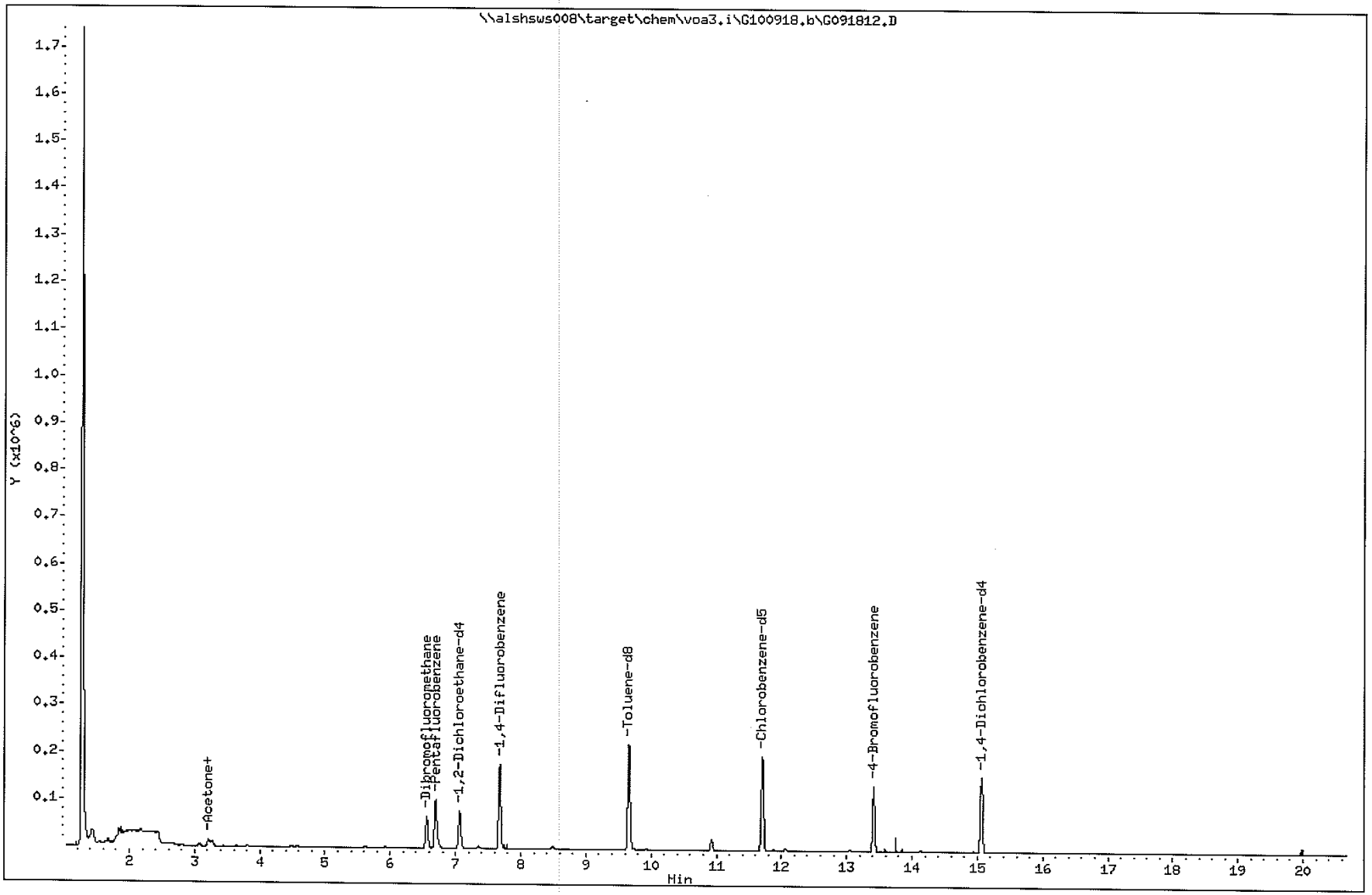
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091812.D
Date : 18-SEP-2010 14:11
Client ID: 1009543-03A
Sample Info: 1009543-03A;1009543-03A;;;

Column phase: DB624

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18



Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091812.D

Date : 18-SEP-2010 14:11

Client ID: 1009543-03A

Instrument: VOA3.i

Sample Info: 1009543-03A;1009543-03A;;;

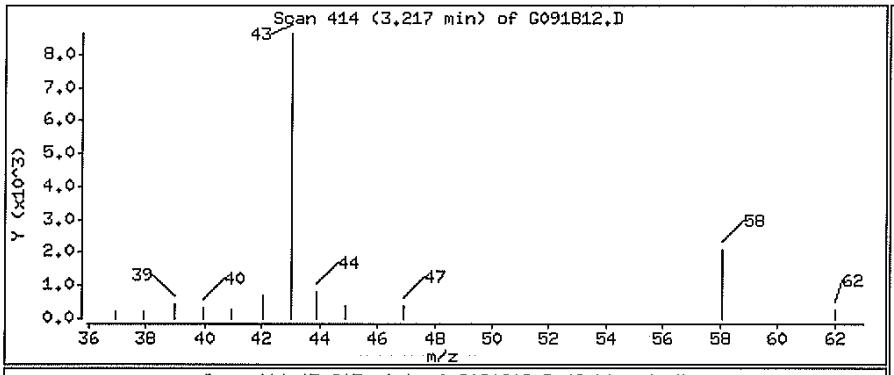
Operator: WLR

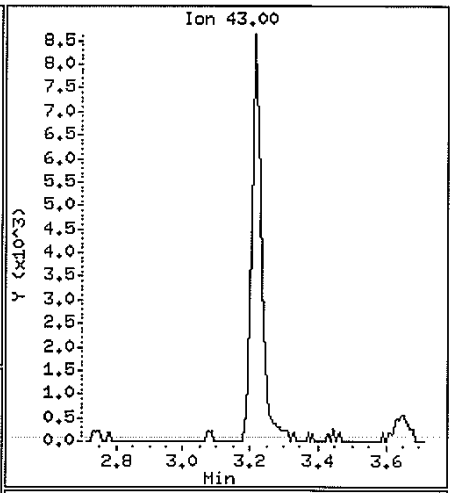
Column phase: DB624

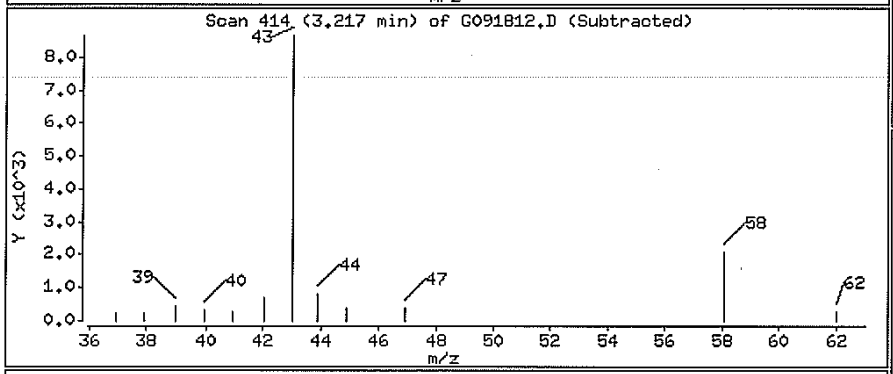
Column diameter: 0.18

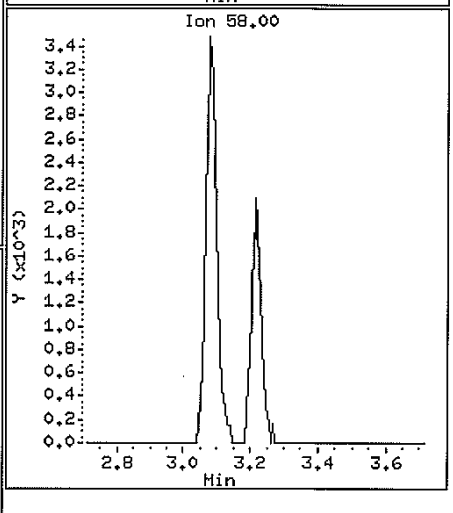
10 Acetone

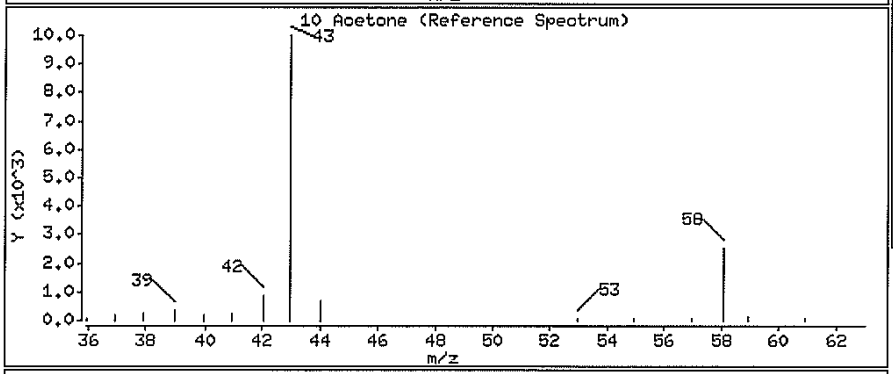
Concentration: 127.50 ug/Kg

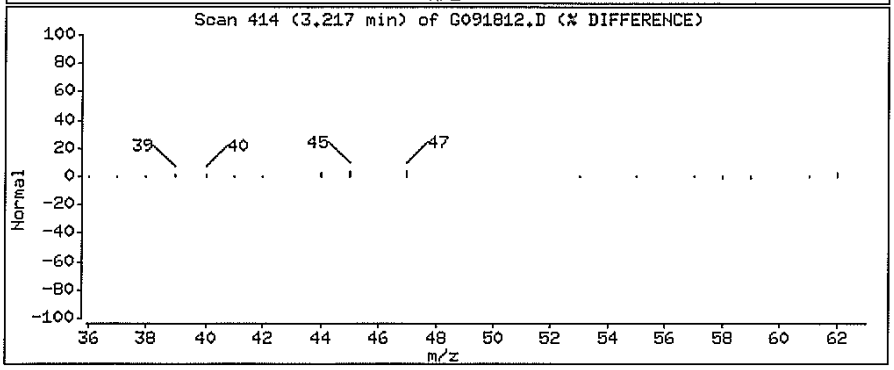












Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091812.D

Date : 18-SEP-2010 14:11

Client ID: 1009543-03A

Instrument: VOA3.i

Sample Info: 1009543-03A;1009543-03A;;;

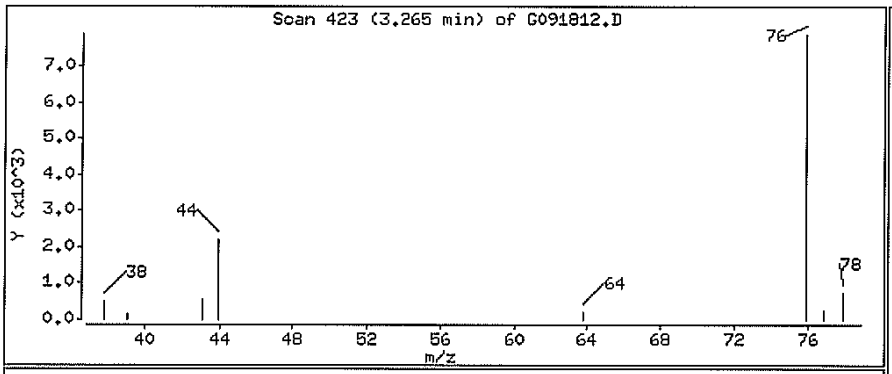
Operator: WLR

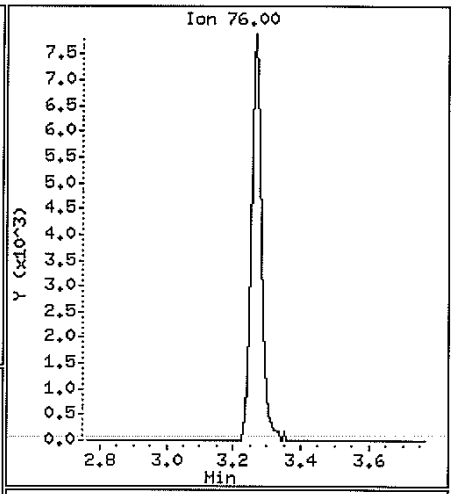
Column phase: DB624

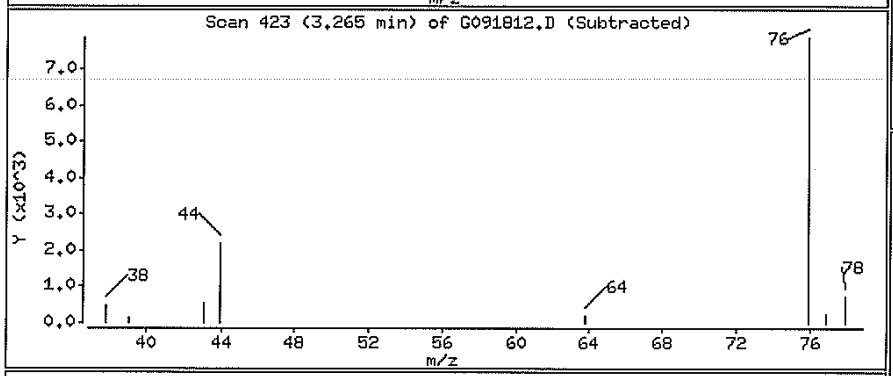
Column diameter: 0.18

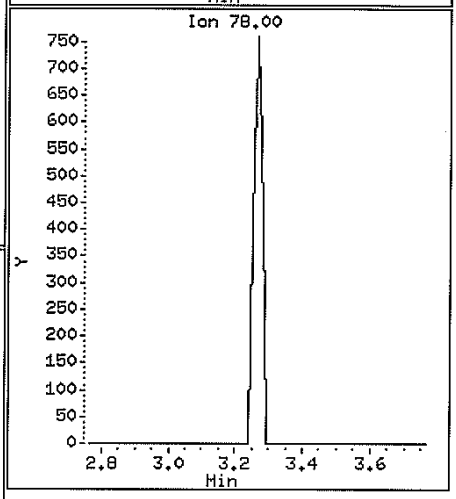
19 Carbon Disulfide

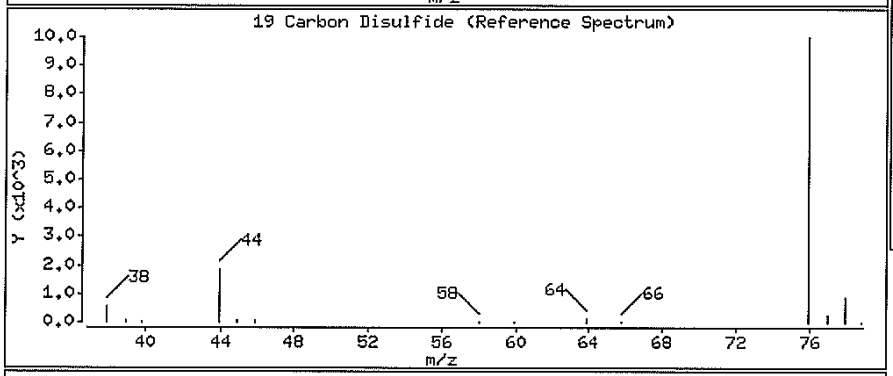
Concentration: 16.81 ug/Kg

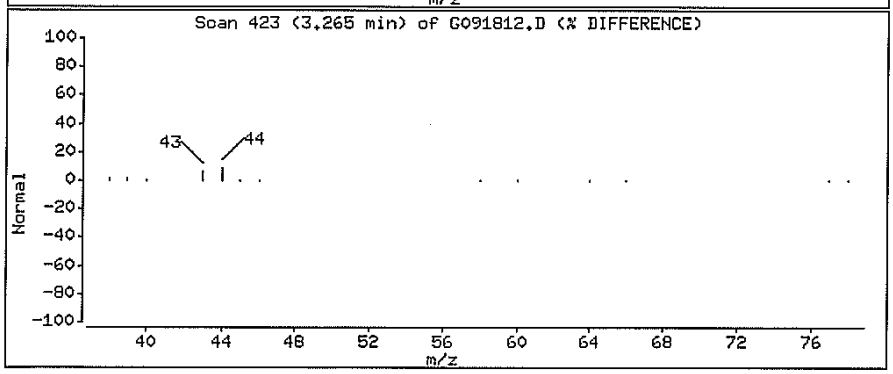












Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091813.D
Report Date: 23-Sep-2010 14:55

ALS Laboratory Group

Data file : \\alshsws008\target\chem\voa3.i\G100918.b\G091813.D
Lab Smp Id: 1009543-12A Client Smp ID: 1009543-12A
Inj Date : 18-SEP-2010 14:38 MS Autotune Date: 29-JUL-2010 11:10
Operator : WLR Inst ID: VOA3.i
Smp Info : 1009543-12A;1009543-12A;;;
Misc Info : ;SOIL;0;1;
Comment :
Method : \\ALSHSWS008\Target\chem\voa3.i\G100918.b\8260BS.m
Meth Date : 23-Sep-2010 14:55 VOA3.i Quant Type: ISTD
Cal Date : 16-SEP-2010 18:05 Cal File: G091609.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00005_tcl43.sub
Target Version: 4.14
Processing Host: ALSHSXP121

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	60.100	% moisture
Vt	5.000	Purge Volume (ml)
Ws	2.720	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

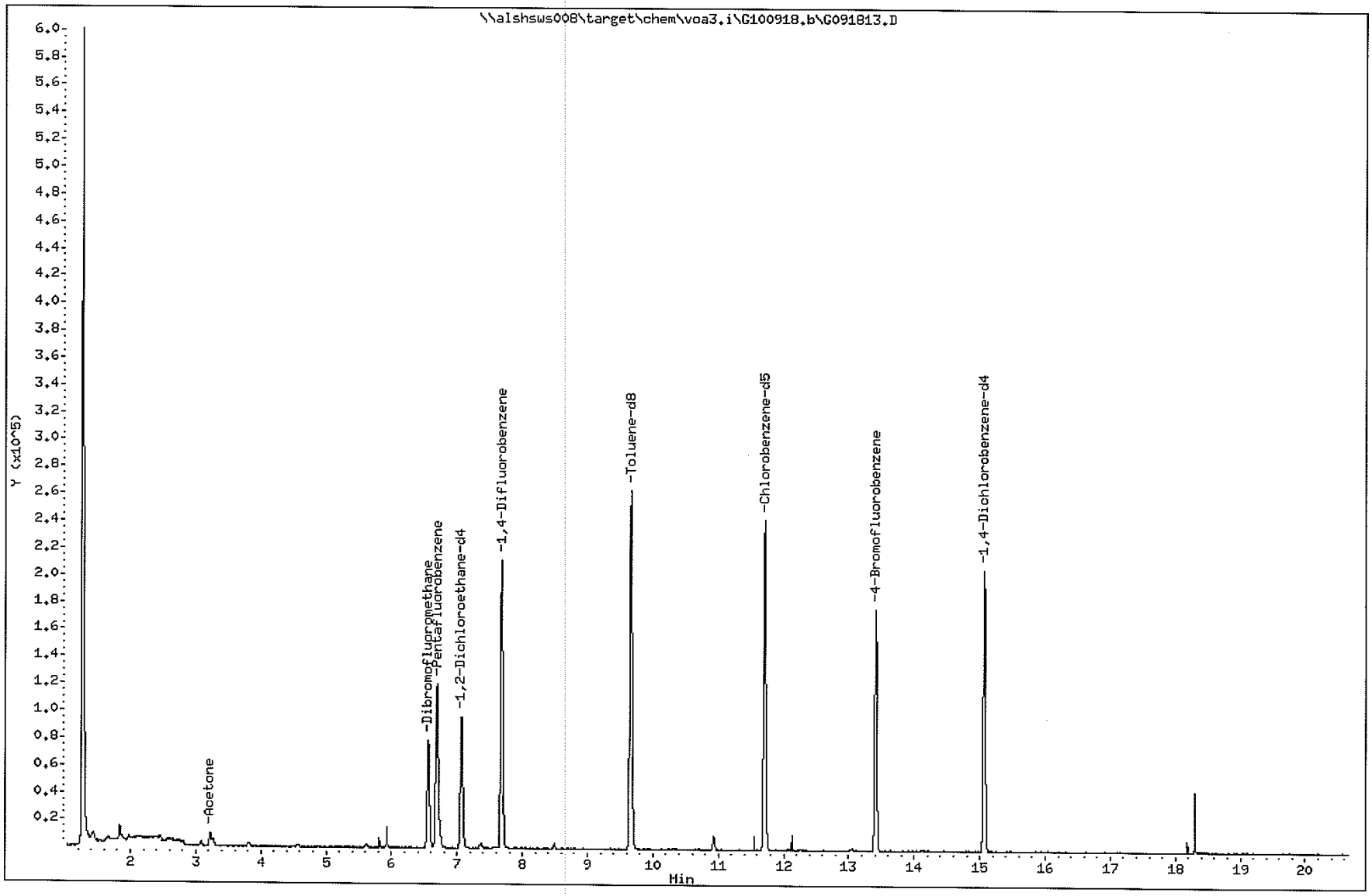
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
*	1 Pentafluorobenzene	168	6.695	6.689	(1.000)	101415	50.0000	
*	36 1,4-Difluorobenzene	114	7.681	7.676	(1.000)	192355	50.0000	
*	47 Chlorobenzene-d5	117	11.706	11.706	(1.000)	159481	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	15.066	15.061	(1.000)	64269	50.0000	
$	30 Dibromofluoromethane	113	6.563	6.557	(0.980)	61726	56.3089	259.42
$	35 1,2-Dichloroethane-d4	65	7.069	7.064	(0.920)	86096	56.4338	259.99
$	48 Toluene-d8	98	9.659	9.659	(0.825)	212645	50.8448	234.24
$	69 4-Bromofluorobenzene	95	13.410	13.405	(1.146)	81919	49.4647	227.88
	10 Acetone	43	3.218	3.213	(0.481)	16048	25.9346	119.48

Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091813.D
Date : 18-SEP-2010 14:38
Client ID: 1009543-12A
Sample Info: 1009543-12A;1009543-12A;;;

Column phase: DB624

Instrument: VOA3.i

Operator: WLR
Column diameter: 0.18



Data File: \\alshsws008\target\chem\voa3.i\G100918.b\G091813.D

Date : 18-SEP-2010 14:38

Client ID: 1009543-12A

Instrument: VOA3.i

Sample Info: 1009543-12A;1009543-12A;;;

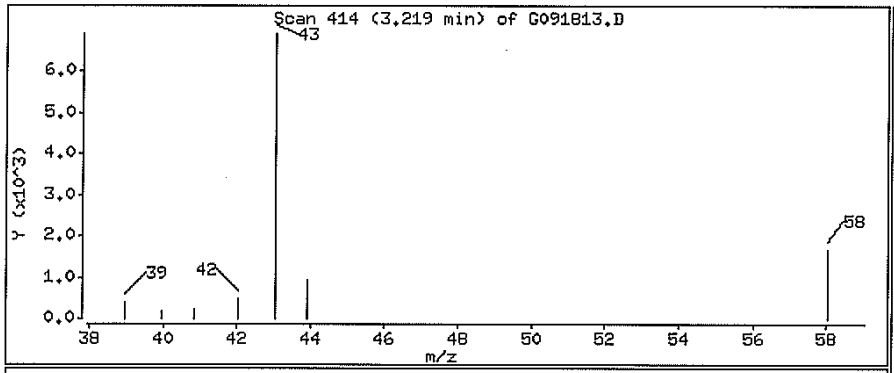
Operator: WLR

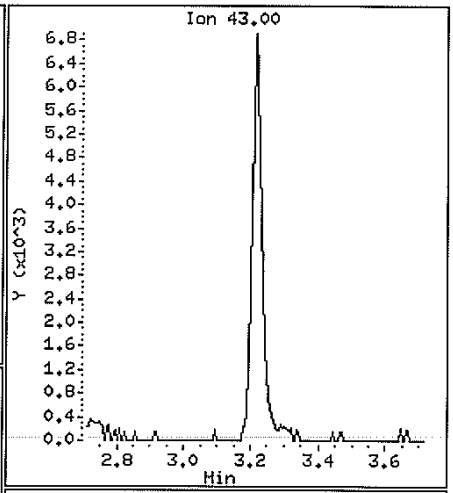
Column phase: DB624

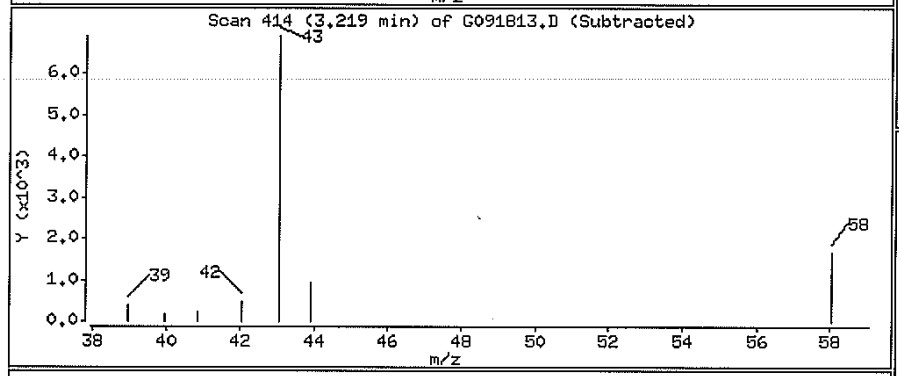
Column diameter: 0.18

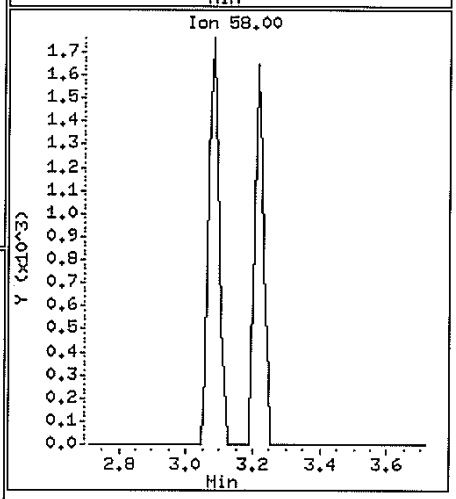
10 Acetone

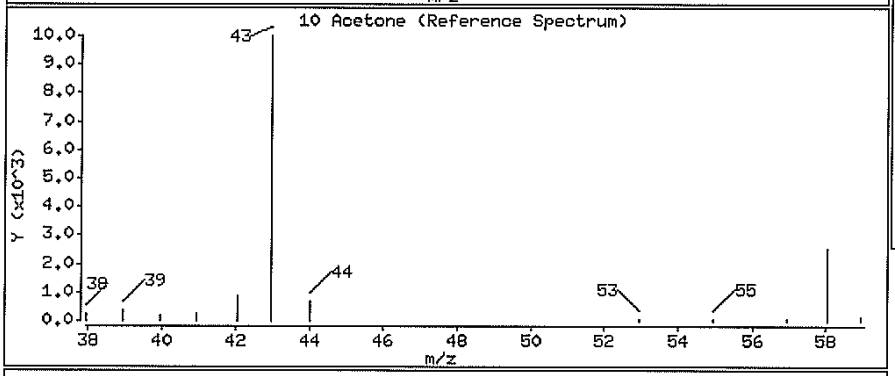
Concentration: 119.48 ug/Kg

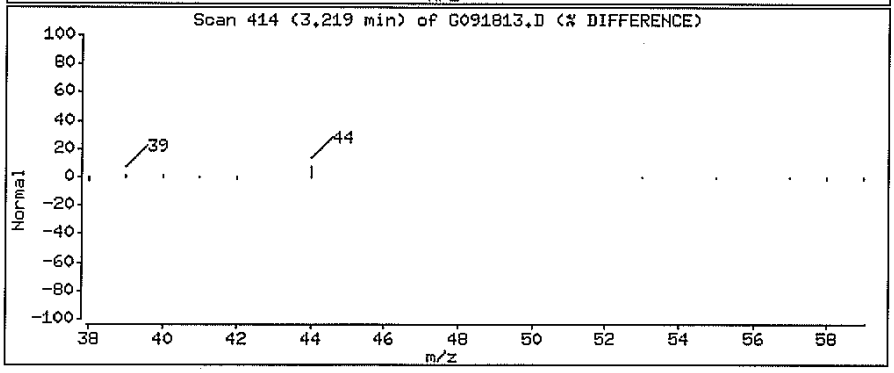












5035 Preparation Logbook

Log Book # 21807

WO #	Sample ID	Date Collected	T/E	Vial Total Wt. grams	Vial Tare Wt grams	Sample Total Wt grams	Level	Preserv	Initials/ Date	Comments
1009348	01A	9/11/10	E	TARE	TARE	2.82	LL	F	9/13/10	1.773
↓	03A	↓	↓	↓	↓	4.11	↓	↓	↓	1.217
1009372	02A	9/12/10	E	TARE	TARE	3.01	LL	(F)	9/14/10	1.661
↓	05A	↓	↓	↓	↓	3.22	↓	↓	↓	1.553
↓	07A	↓	↓	↓	↓	3.54	↓	↓	↓	1.412
1009373	02A	9/13/10	E	TARE	TARE	2.87	LL	(F)	↓	1.742
↓	04A	9/12/10	↓	↓	↓	4.05	↓	↓	↓	1.235
1009431	01A	9/14/10	T	36.69	29.68	7.01	LL	(F)	9/15/10	0.713
↓	02A	↓	↓	35.04	29.62	5.42	↓	↓	↓	0.923
1009537	01A	9/15/10	T	38.96	35.41	3.55	LL	SB	9/17/10	1.408
↓	03A	↓	↓	39.64	35.65	3.99	↓	↓	WLR	1.253
↓	06A	↓	↓	40.64	35.83	4.81	↓	↓	↓	1.04
↓	08A	↓	↓	40.65	35.41	5.24	↓	↓	↓	0.954
↓	12A	↓	↓	39.65	35.39	4.26	↓	↓	↓	1.174
↓	10A	↓	↓	38.61	35.59	3.02	↓	↓	↓	1.656
1009543	01A	9/14/10	T	39.67	33.30	6.37	LL	SB	9/17/10	.785
↓	03A	↓	↓	40.05	35.60	4.45	↓	↓	WLR	1.124
↓	06A	↓	↓	42.54	35.50	7.04	↓	↓	↓	0.71
↓	09A	↓	↓	42.19	35.65	6.54	↓	↓	↓	0.765
↓	12A	↓	↓	38.23	35.51	2.72	↓	↓	↓	1.838

Abbrevations: LL = Low Level w/ VOC free water; ML = Medium Level w/ Methanol; SB = Sodium Bisulfate

Methanol Trac #:	Sodium Bisulfate (SB) Trac #:	Prepare Methanol Blank with each batch of ML

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WO #	Sample ID	Date Collected	T/E	Vial Total Wt. grams	Vial Tare Wt grams	Sample Total Wt grams	Level	Preserv	Initials/ Date	Comments
1009348	01A	9/11/10	E	TARE	TARE	2.82	LL	F	9/13/10	1.773
↓	03A	↓	↓	↓	↓	4.11	↓	↓	↓	1.217
1009372	02A	9/12/10	E	TARE	TARE	3.01	LL	(F)	9/14/10 WLK	1.661
↓	05A	↓	↓	↓	↓	3.22	↓	↓	↓	1.553
↓	07A	↓	↓	↓	↓	3.54	↓	↓	↓	1.412
1009373	02A	9/13/10	E	TARE	TARE	2.87	LL	(F)	↓	1.742
↓	04A	9/12/10	↓	↓	↓	4.05	↓	↓	↓	1.235
1009431	01A	9/14/10	T	36.69	29.68	7.01	LL	(F)	9/15/10 WLK	0.713
↓	02A	↓	↓	35.04	29.62	5.42	↓	↓	↓	0.923
1009537	01A	9/15/10	T	38.96	35.41	3.55	LL	SB	9/17/10	1.408
↓	03A	↓	↓	39.64	35.65	3.99	↓	↓	WLK	1.253
↓	06A	↓	↓	40.64	35.83	4.81	↓	↓	↓	1.04
↓	08A	↓	↓	40.65	35.41	5.24	↓	↓	↓	0.954
↓	12A	↓	↓	39.65	35.39	4.26	↓	↓	↓	1.174
↓	10A	↓	↓	38.61	35.59	3.02	↓	↓	↓	1.656
1009543	01A	9/14/10	T	39.67	33.30	6.37	LL	SB	9/17/10	.785
↓	03A	↓	↓	40.05	35.60	4.45	↓	↓	WLK	1.124
↓	06A	↓	↓	42.54	35.50	7.04	↓	↓	↓	0.71
↓	09A	↓	↓	42.19	35.65	6.54	↓	↓	↓	0.765
↓	12A	↓	↓	38.23	35.51	2.72	↓	↓	↓	1.838

Abbrevations: LL = Low Level w/ VOC free water; ML = Medium Level w/ Methanol; SB = Sodium Bisulfate

Methanol Trac #:	Sodium Bisulfate (SB) Trac #:	Prepare Methanol Blank with each batch of ML

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Semivolatiles Raw Data

Tetra Tech EM, Inc.
R04DW
Work Order 1009543

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 #	S2 (2FP) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 #	S7 #	S8 #	TOT OUT
01	SLCSS2-10091	74	71	70	70	73	72			0
02	SLCSDS2-1009	68	62	75	73	74	75			0
03	1009543-01C	63	59	62	59	64	80			0
04	1009543-03C	70	63	62	69	66	82			0
05	1009543-06C	55	52	57	57	61	67			0
06	1009543-09C	64	60	65	69	71	69			0
07	1009543-12C	71	65	67	63	61	77			0
08	SBLKS2-10091	80	77	76	75	67	78			0
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	= Phenol-d6	(40-125)
S2 (2FP)	= 2-Fluorophenol	(37-125)
S3 (NBZ)	= Nitrobenzene-d5	(37-125)
S4 (FBP)	= 2-Fluorobiphenyl	(43-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(36-126)
S6	= 4-Terphenyl-d14	(32-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

	CLIENT SAMPLE NO.	S1 #	S2 (2FP)#	S3 (NBZ)#	S4 (FBP)#	S5 (TBP)#	S6 #	S7 #	S8 #	TOT OUT
01	SBLKW1-10091	72	67	70	76	60	78			0
02	SLCSW1-10091	71	69	72	77	74	77			0
03	SLCSDW1-1009	78	77	77	81	77	79			0
04	1009543-02E	48	47	51	50	48	69			0
05	1009543-04E	49	50	52	53	51	68			0
06	1009543-05E	48	47	50	49	44	43			0
07	1009543-07E	47	48	51	48	44	63			0
08	1009543-08E	39	39	45	42	40	68			0
09	1009543-10E	44	45	47	46	42	66			0
10	1009543-11E	47	47	48	47	38	45			0
11	1009543-13E	45	46	48	46	36	40			0
12	1009543-14E	46	48	49	46	42	63			0
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
S1	= Phenol-d6	(20-120)
S2 (2FP)	= 2-Fluorophenol	(20-120)
S3 (NBZ)	= Nitrobenzene-d5	(41-120)
S4 (FBP)	= 2-Fluorobiphenyl	(40-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(34-129)
S6	= 4-Terphenyl-d14	(40-135)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

ALS Laboratory Group **GC/MS SV #4 Instrument Run Log** **Logbook # 23114**

Sequence # 100913		Method: 8270D / E625 / CLP / Others	SOP #: MSSV-001 / MSSV-003 LL
RPM: [illegible]	IS ID: 22717-31-08	CAL STD ID: 22717-31-01	DFTPP ID: 22717-30-07

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
1	DFTPP	50ng					9/13/10	10:07	✓	[illegible]	
2	SLSTD-2.5	2.5ppm						10:21	✓		
3	-0.2	0.2ppm						11:22	✓		
4	-0.5	0.5ppm						11:44	✓		
5	-1.0	1.0ppm						12:04	✓		
6	-5.0	5.0ppm						12:24	✓		
7	-7.5	7.5ppm						12:45	✓		
8	-10	10ppm						13:05	✓		
9	CRLI ICV	2.5ppm						13:35	✓		
10	CRLIX ICV	2.5ppm						13:55	✓		
11	4.3 ICV	2.5ppm						14:14	✓		
12	Lot2 ICV	2.5ppm						14:34	✓		
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

IS1/1,4-dichlorobenzene-d4: [illegible] 227746	IS2/naphthalene-d8: [illegible] 826472	IS3/acenaphthene-d10: [illegible] 462687	
IS4/phenanthrene-d10: [illegible] 674000	IS5/chrysene-d12: [illegible] 515549	IS6/perylene-d12: [illegible] 451700	
DFTPP resp: 18912307	DDD resp: —	DDE resp: — [illegible]	PCP Resp: 14615651
DDT resp: 24697594	% Breakdown: — (< 20 %)	Benz. Resp: 25710015	PCP Tailing: 1.11 (< 2.0 %)
			Benz. Tailing: 0.59 (< 2.0 %)

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FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Matrix Spike - Sample No.: LOTICV-2.5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Phenol	2.50	2.53	101	75-125
Bis(2-chloroethyl)ether	2.50	2.61	104	75-125
2-Chlorophenol	2.50	2.60	104	75-125
2-Methylphenol	2.50	2.59	104	75-125
bis(2-Chloroisopropyl)e	2.50	2.64	106	75-125
3&4-Methylphenol	2.50	2.46	98	75-125
N-Nitroso-di-n-prop.(1)	2.50	2.45	98	75-125
Hexachloroethane	2.50	2.48	99	75-125
Nitrobenzene	2.50	2.55	102	75-125
Isophorone	2.50	2.67	107	75-125
2-Nitrophenol	2.50	2.48	99	75-125
2,4-Dimethylphenol	2.50	2.52	101	75-125
Bis(2-chloroethoxy)meth	2.50	2.38	95	75-125
2,4-Dichlorophenol	2.50	2.54	102	75-125
Naphthalene	2.50	2.62	105	75-125
4-Chloroaniline	2.50	2.49	100	75-125
Hexachlorobutadiene	2.50	2.68	107	75-125
4-Chloro-3-Methylphenol	2.50	2.52	101	75-125
2-Methylnaphthalene	2.50	2.39	96	75-125
Hexachlorocyclopentadie	2.50	2.56	102	75-125
2,4,6-Trichlorophenol	2.50	2.54	102	75-125
2,4,5-Trichlorophenol	2.50	2.45	98	75-125
2-Chloronaphthalene	2.50	2.11	84	75-125
2-Nitroaniline	2.50	2.63	105	75-125
Dimethylphthalate	2.50	2.58	103	75-125
Acenaphthylene	2.50	2.50	100	75-125
2,6-Dinitrotoluene	2.50	2.81	112	75-125
3-Nitroaniline	2.50	2.42	97	75-125

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III SV

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Matrix Spike - Sample No.: LOTICV-2.5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Acenaphthene	2.50	2.41	96	75-125
2,4-Dinitrophenol	2.50	2.41	96	75-125
Dibenzofuran	2.50	2.44	98	75-125
4-Nitrophenol	2.50	2.46	98	75-125
2,4-Dinitrotoluene	2.50	2.56	102	75-125
Diethylphthalate	2.50	2.55	102	75-125
4-Chlorophenyl phenyl e	2.50	2.56	102	75-125
Fluorene	2.50	2.52	101	75-125
4-Nitroaniline	2.50	2.78	111	75-125
4,6-Dinitro-2-methylphe	2.50	2.69	108	75-125
N-Nitrosodiphenylamine	2.50	2.44	98	75-125
4-Bromophenyl-phenyleth	2.50	2.57	103	75-125
Hexachlorobenzene	2.50	2.51	100	75-125
Pentachlorophenol	2.50	2.02	81	75-125
Phenanthrene	2.50	2.44	98	75-125
Anthracene	2.50	2.43	97	75-125
Carbazole	2.50	2.61	104	75-125
Di-n-butylphthalate	2.50	2.58	103	75-125
Fluoranthene	2.50	2.62	105	75-125
Pyrene	2.50	2.49	100	75-125
Butylbenzylphthalate	2.50	2.50	100	75-125
Benzo(a)Anthracene	2.50	2.46	98	75-125
3,3'-Dichlorobenzidine	2.50	2.63	105	75-125
bis(2-ethylhexyl)phthal	2.50	2.50	100	75-125
Chrysene	2.50	2.39	96	75-125
Di-n-octylphthalate	2.50	2.58	103	75-125
Benzo(b)fluoranthene	2.50	2.75	110	75-125
Benzo(k)fluoranthene	2.50	2.48	99	75-125

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

_____

FORM III SV

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Matrix Spike - Sample No.: LOTICV-2.5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Benzo(a)pyrene	2.50	2.44	98	75-125
Indeno(1,2,3-cd)pyrene	2.50	2.72	109	75-125
Dibenzo(a,h)anthracene	2.50	2.59	104	75-125
Benzo(g,h,i)perylene	2.50	2.63	105	75-125
Acetophenone	2.50	2.45	98	75-125
Caprolactam	2.50	2.45	98	75-125
1,1'-Biphenyl	2.50	2.36	94	75-125
Atrazine	2.50	2.22	89	75-125

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV4 Calibration Date(s): 09/13/10 09/13/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1021 1305

LAB FILE ID: RF0.2: 03 RF0.5: 04 RF1: 05
RF2.5: 02 RF5: 06

COMPOUND	RF0.2	RF0.5	RF1	RF2.5	RF5
Phenol	1.884	1.624	1.807	1.687	1.529
Bis(2-chloroethyl)ether	1.465	1.208	1.617	1.342	1.399
2-Chlorophenol	1.328	1.370	1.397	1.358	1.378
2-Methylphenol	1.471	1.203	1.312	1.271	1.153
bis(2-Chloroisopropyl)ether	1.804	1.548	1.744	1.596	1.409
3&4-Methylphenol	1.527	1.448	1.624	1.441	1.442
N-Nitroso-di-n-propylamine	1.297	0.845	1.051	1.004	0.934
Hexachloroethane	0.646	0.611	0.641	0.605	0.574
Nitrobenzene	0.460	0.342	0.429	0.425	0.402
Isophorone	0.757	0.576	0.688	0.731	0.708
2-Nitrophenol	0.241	0.172	0.196	0.209	0.214
2,4-Dimethylphenol	0.377	0.319	0.327	0.327	0.317
Bis(2-chloroethoxy)methane	0.484	0.362	0.389	0.394	0.378
2,4-Dichlorophenol	0.325	0.238	0.265	0.291	0.280
Naphthalene	1.186	0.983	1.070	1.064	1.083
4-Chloroaniline	0.503	0.370	0.391	0.403	0.403
Hexachlorobutadiene	0.158	0.148	0.129	0.126	0.140
4-Chloro-3-Methylphenol	0.384	0.262	0.313	0.341	0.326
2-Methylnaphthalene	0.658	0.523	0.583	0.607	0.607
Hexachlorocyclopentadiene	0.258	0.248	0.256	0.274	0.290
2,4,6-Trichlorophenol	0.334	0.296	0.322	0.309	0.321
2,4,5-Trichlorophenol	0.379	0.308	0.366	0.314	0.350
2-Chloronaphthalene	1.434	1.239	1.097	1.178	1.064
2-Nitroaniline	0.425	0.345	0.344	0.352	0.376
Dimethylphthalate	1.450	1.212	1.517	1.317	1.450
Acenaphthylene	2.119	1.858	2.065	1.877	2.068
2,6-Dinitrotoluene	0.280	0.256	0.332	0.322	0.326
3-Nitroaniline	0.364	0.298	0.364	0.303	0.321
Acenaphthene	1.356	1.025	1.148	1.081	1.199
2,4-Dinitrophenol	0.088	0.122	0.141	0.177	0.177
Dibenzofuran	1.691	1.542	1.681	1.566	1.723
4-Nitrophenol	0.247	0.232	0.240	0.263	0.288
2,4-Dinitrotoluene	0.401	0.376	0.428	0.384	0.436
Diethylphthalate	1.707	1.429	1.517	1.412	1.539
4-Chlorophenyl phenyl ether	0.509	0.458	0.567	0.515	0.550
Fluorene	1.443	1.277	1.351	1.268	1.407
4-Nitroaniline	0.366	0.302	0.323	0.338	0.353

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV4 Calibration Date(s): 09/13/10 09/13/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1021 1305

LAB FILE ID: RF0.2: 03 RF0.5: 04 RF1: 05
RF2.5: 02 RF5: 06

COMPOUND	RF0.2	RF0.5	RF1	RF2.5	RF5
4,6-Dinitro-2-methylphenol	0.133	0.091	0.139	0.148	0.145
N-Nitrosodiphenylamine	0.865	0.732	0.789	0.736	0.774
4-Bromophenyl-phenylether	0.220	0.132	0.192	0.168	0.179
Hexachlorobenzene	0.202	0.178	0.197	0.173	0.183
Pentachlorophenol	0.121	0.050	0.082	0.102	0.108
Phenanthrene	1.364	1.015	1.157	1.069	1.161
Anthracene	1.289	0.957	1.176	1.086	1.150
Carbazole	1.450	1.034	1.124	0.894	0.964
Di-n-butylphthalate	2.014	1.529	1.647	1.587	1.803
Fluoranthene	1.130	0.902	1.012	0.952	1.052
Pyrene	1.588	1.379	1.579	1.385	1.581
Butylbenzylphthalate	1.190	0.950	1.055	0.957	1.095
Benzo(a)Anthracene	1.334	1.074	1.053	0.999	1.182
3,3'-Dichlorobenzidine	0.351	0.324	0.319	0.279	0.300
bis(2-ethylhexyl)phthalate	1.635	1.330	1.556	1.417	1.593
Chrysene	1.410	1.047	1.041	1.035	1.128
Di-n-octylphthalate	2.875	2.487	2.558	2.694	2.773
Benzo(b)fluoranthene	1.420	0.901	1.108	1.071	1.086
Benzo(k)fluoranthene	1.336	0.998	1.353	1.170	1.323
Benzo(a)pyrene	1.301	0.980	1.098	1.027	1.142
Indeno(1,2,3-cd)pyrene	0.960	0.686	0.891	0.906	0.982
Dibenzo(a,h)anthracene	1.015	0.812	0.932	0.903	1.006
Benzo(g,h,i)perylene	1.219	0.916	1.156	1.048	1.148
Acetophenone	0.566	0.466	0.471	0.537	0.524
Caprolactam	0.102	0.094	0.108	0.101	0.104
1,1'-Biphenyl	1.592	1.329	1.515	1.432	1.557
Benzaldehyde	1.019	0.971	1.052	1.143	0.854
Atrazine	0.216	0.193	0.169	0.189	0.192
Phenol-d6	1.964	1.782	1.940	1.912	1.736
2-Fluorophenol	1.490	1.352	1.414	1.482	1.269
Nitrobenzene-d5	0.407	0.372	0.414	0.447	0.434
2-Fluorobiphenyl	1.391	1.168	1.427	1.277	1.379
2,4,6-Tribromophenol	0.186	0.141	0.140	0.151	0.155
4-Terphenyl-d14	0.888	0.702	0.761	0.720	0.798

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV4 Calibration Date(s): 09/13/10 09/13/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1021 1305

LAB FILE ID: RF7.5: 07 RF10: 08

COMPOUND	RF7.5	RF10
Phenol	1.794	1.852
Bis(2-chloroethyl)ether	1.458	1.562
2-Chlorophenol	1.453	1.476
2-Methylphenol	1.319	1.342
bis(2-Chloroisopropyl)ether	1.582	1.640
3&4-Methylphenol	1.558	1.626
N-Nitroso-di-n-propylamine	1.037	1.077
Hexachloroethane	0.613	0.671
Nitrobenzene	0.418	0.425
Isophorone	0.733	0.727
2-Nitrophenol	0.204	0.214
2,4-Dimethylphenol	0.335	0.338
Bis(2-chloroethoxy)methane	0.402	0.399
2,4-Dichlorophenol	0.290	0.292
Naphthalene	1.170	1.206
4-Chloroaniline	0.423	0.432
Hexachlorobutadiene	0.140	0.145
4-Chloro-3-Methylphenol	0.337	0.340
2-Methylnaphthalene	0.615	0.636
Hexachlorocyclopentadiene	0.327	0.307
2,4,6-Trichlorophenol	0.356	0.340
2,4,5-Trichlorophenol	0.376	0.382
2-Chloronaphthalene	1.300	1.199
2-Nitroaniline	0.409	0.387
Dimethylphthalate	1.557	1.496
Acenaphthylene	2.238	2.235
2,6-Dinitrotoluene	0.340	0.340
3-Nitroaniline	0.344	0.309
Acenaphthene	1.274	1.222
2,4-Dinitrophenol	0.216	0.212
Dibenzofuran	1.868	1.853
4-Nitrophenol	0.330	0.321
2,4-Dinitrotoluene	0.478	0.462
Diethylphthalate	1.694	1.657
4-Chlorophenyl phenyl ether	0.602	0.566
Fluorene	1.529	1.504
4-Nitroaniline	0.374	0.348

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV4 Calibration Date(s): 09/13/10 09/13/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1021 1305

LAB FILE ID: RF7.5: 07 RF10: 08

COMPOUND	RF7.5	RF10
4,6-Dinitro-2-methylphenol	0.174	0.166
N-Nitrosodiphenylamine	0.847	0.832
4-Bromophenyl-phenylether	0.199	0.190
Hexachlorobenzene	0.203	0.196
Pentachlorophenol	0.117	0.126
Phenanthrene	1.253	1.234
Anthracene	1.303	1.278
Carbazole	0.949	0.922
Di-n-butylphthalate	1.850	1.716
Fluoranthene	1.116	1.101
Pyrene	1.609	1.700
Butylbenzylphthalate	1.140	1.184
Benzo(a)Anthracene	1.212	1.230
3,3'-Dichlorobenzidine	0.287	0.257
bis(2-ethylhexyl)phthalate	1.674	1.673
Chrysene	1.197	1.212
Di-n-octylphthalate	2.946	3.174
Benzo(b)fluoranthene	1.102	1.236
Benzo(k)fluoranthene	1.225	1.361
Benzo(a)pyrene	1.152	1.263
Indeno(1,2,3-cd)pyrene	1.012	1.063
Dibenzo(a,h)anthracene	1.061	1.145
Benzo(g,h,i)perylene	1.134	1.163
Acetophenone	0.552	0.553
Caprolactam	0.109	0.109
1,1'-Biphenyl	1.692	1.647
Benzaldehyde	0.966	0.981
Atrazine	0.204	0.192
Phenol-d6	1.892	1.966
2-Fluorophenol	1.532	1.603
Nitrobenzene-d5	0.446	0.437
2-Fluorobiphenyl	1.541	1.483
2,4,6-Tribromophenol	0.182	0.176
4-Terphenyl-d14	0.814	0.844

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV4 Calibration Date(s): 09/13/10 09/13/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1021 1305

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Phenol	AVRG		1.73970434		7.5
Bis(2-chloroethyl)ether	AVRG		1.43575375		9.5
2-Chlorophenol	AVRG		1.39428771		3.8
2-Methylphenol	AVRG		1.29584372		7.9
bis(2-Chloroisopropyl)ether	AVRG		1.61747308		8.0
3&4-Methylphenol	AVRG		1.52371751		5.4
N-Nitroso-di-n-propylamine	AVRG		1.03507040		13.5
Hexachloroethane	AVRG		0.62302646		5.1
Nitrobenzene	AVRG		0.41451780		8.8
Isophorone	AVRG		0.70295436		8.5
2-Nitrophenol	AVRG		0.20717271		10.0
2,4-Dimethylphenol	AVRG		0.33436693		6.0
Bis(2-chloroethoxy)methane	AVRG		0.40105776		9.7
2,4-Dichlorophenol	AVRG		0.28320084		9.5
Naphthalene	AVRG		1.10879542		7.3
4-Chloroaniline	AVRG		0.41794132		10.2
Hexachlorobutadiene	AVRG		0.14096861		7.8
4-Chloro-3-Methylphenol	AVRG		0.32889899		11.1
2-Methylnaphthalene	AVRG		0.60413049		7.1
Hexachlorocyclopentadiene	AVRG		0.27997643		10.5
2,4,6-Trichlorophenol	AVRG		0.32563593		6.1
2,4,5-Trichlorophenol	AVRG		0.35342841		8.7
2-Chloronaphthalene	AVRG		1.21586134		10.3
2-Nitroaniline	AVRG		0.37686846		8.6
Dimethylphthalate	AVRG		1.42849291		8.5
Acenaphthylene	AVRG		2.06579308		7.4
2,6-Dinitrotoluene	AVRG		0.31369019		10.4
3-Nitroaniline	AVRG		0.32911565		8.6
Acenaphthene	AVRG		1.18643052		9.5
2,4-Dinitrophenol	2ORDR	9.486e-002	5.48252896	-0.8982163	0.996
Dibenzofuran	AVRG		1.70346193		7.4
4-Nitrophenol	AVRG		0.27470230		14.4
2,4-Dinitrotoluene	AVRG		0.42371650		9.1
Diethylphthalate	AVRG		1.56503364		7.8
4-Chlorophenyl phenyl ether	AVRG		0.53814187		8.9
Fluorene	AVRG		1.39705136		7.4
4-Nitroaniline	AVRG		0.34329058		7.3

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV4 Calibration Date(s): 09/13/10 09/13/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1021 1305

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
4,6-Dinitro-2-methylphenol	AVRG		0.14249357		18.8
N-Nitrosodiphenylamine	AVRG		0.79653283		6.7
4-Bromophenyl-phenylether	AVRG		0.18288414		15.2
Hexachlorobenzene	AVRG		0.19040128		6.4
Pentachlorophenol	2ORDR	7.125e-002	9.73485052	-3.0223521	0.999
Phenanthrene	AVRG		1.17917260		9.9
Anthracene	AVRG		1.17705917		10.7
Carbazole	AVRG		1.04850830		18.4
Di-n-butylphthalate	AVRG		1.73503431		9.6
Fluoranthene	AVRG		1.03764968		8.4
Pyrene	AVRG		1.54576905		7.7
Butylbenzylphthalate	AVRG		1.08159725		9.2
Benzo(a)Anthracene	AVRG		1.15496710		10.2
3,3'-Dichlorobenzidine	AVRG		0.30256006		10.4
bis(2-ethylhexyl)phthalate	AVRG		1.55391298		8.5
Chrysene	AVRG		1.15290402		11.7
Di-n-octylphthalate	AVRG		2.78666948		8.5
Benzo(b)fluoranthene	AVRG		1.13203779		14.2
Benzo(k)fluoranthene	AVRG		1.25241072		10.6
Benzo(a)pyrene	AVRG		1.13775905		10.2
Indeno(1,2,3-cd)pyrene	AVRG		0.92890761		13.2
Dibenzo(a,h)anthracene	AVRG		0.98188540		11.2
Benzo(g,h,i)perylene	AVRG		1.11190085		9.0
Acetophenone	AVRG		0.52423299		7.6
Caprolactam	AVRG		0.10392128		5.3
1,1'-Biphenyl	AVRG		1.53786792		8.2
Benzaldehyde	AVRG		0.99811738		8.9
Atrazine	AVRG		0.19357136		7.4
Phenol-d6	AVRG		1.88455537		4.8
2-Fluorophenol	AVRG		1.44903442		7.8
Nitrobenzene-d5	AVRG		0.42237156		6.3
2-Fluorobiphenyl	AVRG		1.38096860		9.1
2,4,6-Tribromophenol	AVRG		0.16160460		12.0
4-Terphenyl-d14	AVRG		0.78969866		8.5

FORM VI SV

Data File: \\alshsws008\target\chem\SV4.i\100913.b\01.D

Page 1

Date : 13-SEP-2010 10:07

Client ID: DFTPP

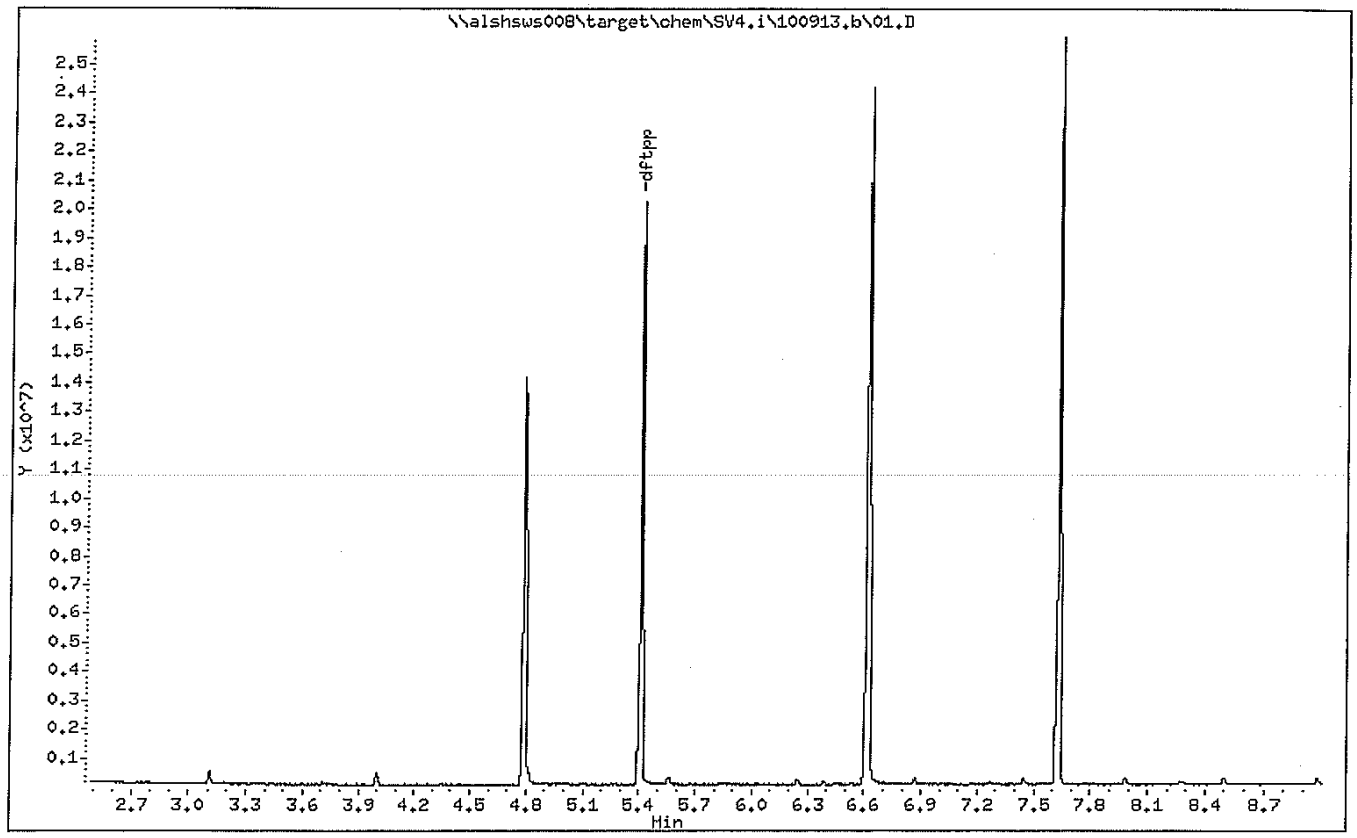
Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\alshsws00B\target\chem\SV4.i\100913.b\01.D

Date : 13-SEP-2010 10:07

Client ID: DFTPP

Instrument: SV4.i

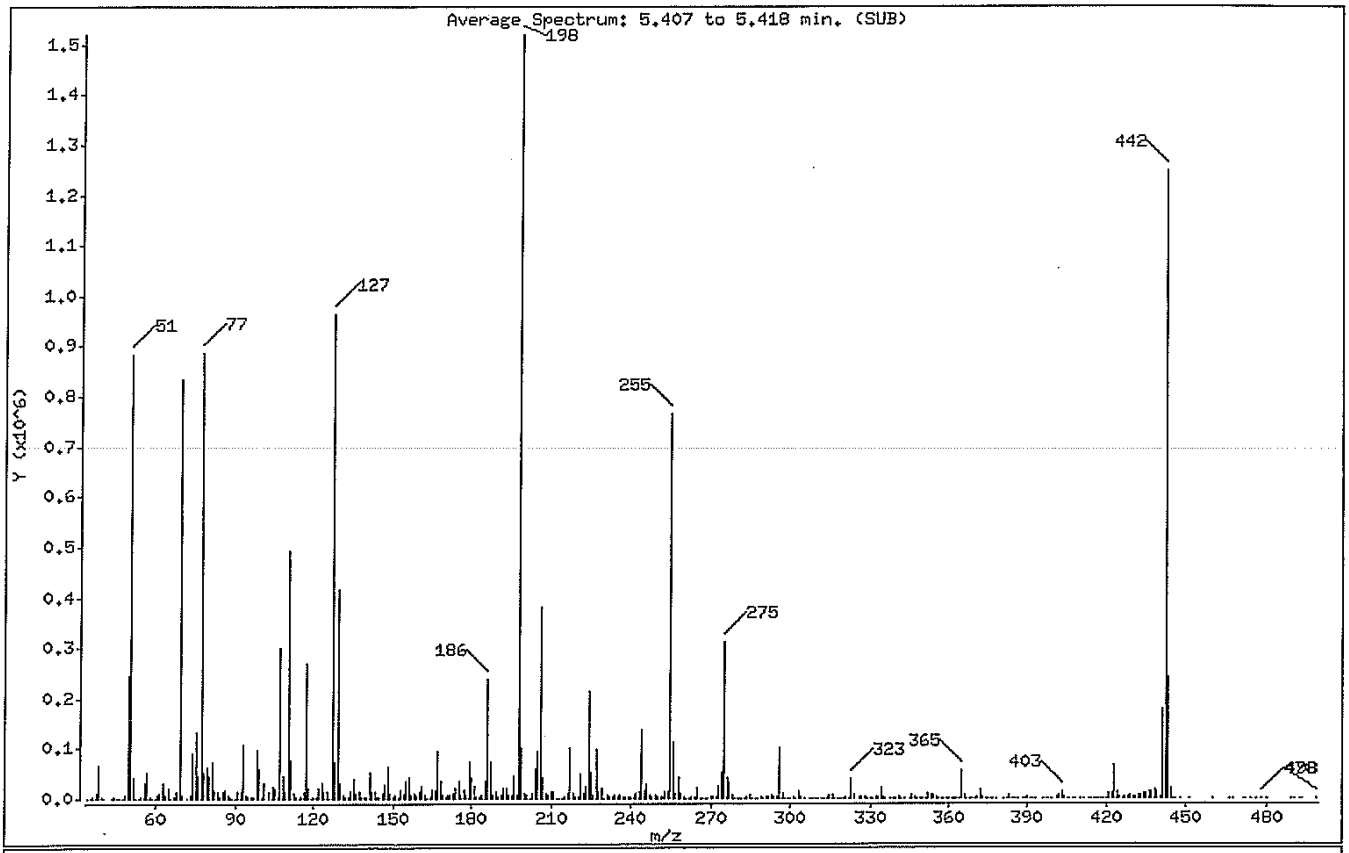
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	58.21
68	Less than 2.00% of mass 69	0.88 (1.60)
69	Mass 69 relative abundance	55.04
70	Less than 2.00% of mass 69	0.51 (0.93)
127	10.00 - 80.00% of mass 198	63.41
197	Less than 2.00% of mass 198	0.35
199	5.00 - 9.00% of mass 198	6.68
275	10.00 - 60.00% of mass 198	20.43
365	Greater than 1.00% of mass 198	3.75
441	0.01 - 24.00% of mass 442	11.67 (14.21)
442	Greater than 50.00% of mass 198	82.18
443	15.00 - 24.00% of mass 442	15.78 (19.20)

Data File: \\alshsws008\target\chem\SV4.i\100913.b\01.D

Date : 13-SEP-2010 10:07

Client ID: DFTPP

Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5HS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 5.407 to 5.418 min. (SUB)
Location of Maximum: 198.00
Number of points: 412

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	65	143.00	12833	247.00	7870	355.00	1999
36.00	251	144.00	3280	248.00	3068	356.00	1376
37.00	4836	145.00	1930	249.00	7121	357.00	101
38.00	12074	146.00	11514	250.00	2854	358.00	309
39.00	64992	147.00	29272	251.00	4945	359.00	246
40.00	3619	148.00	61176	252.00	4959	360.00	642
41.00	1328	149.00	10340	253.00	12997	361.00	731
44.00	1366	150.00	2947	254.00	12947	362.00	1678
45.00	2570	151.00	7192	255.00	763584	363.00	1408
46.00	433	152.00	2849	256.00	113520	364.00	941
47.00	304	153.00	17480	257.00	11055	365.00	56936
48.00	512	154.00	9576	258.00	42200	366.00	6422
49.00	6829	155.00	33736	259.00	9454	367.00	351
50.00	245632	156.00	40944	260.00	2221	368.00	955
51.00	884800	157.00	5246	261.00	1716	369.00	1091
52.00	43216	158.00	11133	262.00	373	370.00	1424
53.00	1532	159.00	7920	263.00	2690	371.00	2507
54.00	127	160.00	14651	264.00	2152	372.00	17808
55.00	2142	161.00	25136	265.00	19928	373.00	3824
56.00	30560	162.00	6554	266.00	1549	374.00	1162
57.00	53472	163.00	704	267.00	651	375.00	400
58.00	2549	164.00	2778	268.00	1175	376.00	178
59.00	692	165.00	16448	269.00	1528	377.00	1488
60.00	4	166.00	15786	270.00	2008	378.00	133
61.00	8061	167.00	94768	271.00	4121	381.00	1089
62.00	10742	168.00	36664	272.00	1905	382.00	374
63.00	31152	169.00	6440	273.00	23664	383.00	8582
64.00	6163	170.00	2757	274.00	53800	384.00	1176
65.00	19584	171.00	5508	275.00	310592	385.00	902
66.00	1492	172.00	8734	276.00	42760	386.00	279
67.00	1957	173.00	11823	277.00	31024	388.00	380
68.00	13421	174.00	20248	278.00	6114	389.00	531
69.00	836672	175.00	33776	279.00	877	390.00	2236
70.00	7753	176.00	7929	280.00	516	391.00	1345
72.00	789	177.00	18808	281.00	508	392.00	1614

Data File: \\alshsws008\target\chem\SV4.i\100913.b\01.D

Date : 13-SEP-2010 10:07

Client ID: DFTPP

Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5HS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 5.407 to 5.418 min. (SUB)
Location of Maximum: 198.00
Number of points: 412

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	6061	178.00	5588	282.00	878	393.00	411
74.00	90088	179.00	73496	283.00	1247	396.00	380
75.00	134208	180.00	42448	284.00	3751	397.00	509
76.00	46984	181.00	22720	285.00	7100	398.00	589
77.00	887040	182.00	4380	286.00	756	399.00	250
78.00	54064	183.00	2799	287.00	54	401.00	2734
79.00	61968	184.00	5920	288.00	786	402.00	6890
80.00	46760	185.00	34272	289.00	2683	403.00	14369
81.00	72456	186.00	238208	290.00	893	404.00	3980
82.00	17952	187.00	71720	291.00	1783	405.00	1362
83.00	15128	188.00	7248	292.00	2235	406.00	806
84.00	2290	189.00	14866	293.00	7522	407.00	197
85.00	12292	190.00	3044	294.00	3076	408.00	240
86.00	17400	191.00	6124	295.00	2451	410.00	370
87.00	7310	192.00	19656	296.00	100216	411.00	585
88.00	2763	193.00	21096	297.00	11785	413.00	870
89.00	1355	194.00	6605	298.00	1455	414.00	738
90.00	139	195.00	6065	299.00	1177	415.00	651
91.00	12870	196.00	45184	300.00	493	416.00	796
92.00	15172	197.00	5374	301.00	2402	417.00	1128
93.00	108152	198.00	1520128	302.00	840	418.00	1422
94.00	7378	199.00	101592	303.00	14964	419.00	1535
95.00	2162	200.00	8737	304.00	2536	420.00	1730
96.00	2966	201.00	6013	305.00	809	421.00	9400
97.00	2147	202.00	1491	307.00	223	422.00	9031
98.00	96856	203.00	12075	308.00	1079	423.00	64848
99.00	60088	204.00	60560	309.00	1290	424.00	12588
100.00	3751	205.00	92832	310.00	255	425.00	2868
101.00	31176	206.00	381696	311.00	734	426.00	1340
103.00	13805	207.00	43616	312.00	578	427.00	2150
104.00	24360	208.00	12191	313.00	943	428.00	2490
105.00	21312	209.00	5670	314.00	4125	429.00	6533
106.00	5237	210.00	12333	315.00	8057	430.00	3916
107.00	298880	211.00	12729	316.00	6959	431.00	4769
108.00	44944	212.00	509	317.00	1408	432.00	8650

Data File: \\alshsws008\target\chem\SV4.i\100913.b\01.D

Date : 13-SEP-2010 10:07

Client ID: DFTPP

Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 5.407 to 5.418 min. (SUB)
Location of Maximum: 198.00
Number of points: 412

m/z	Y	m/z	Y	m/z	Y	m/z	Y
109.00	12247	213.00	907	318.00	1249	433.00	5269
110.00	491008	214.00	479	319.00	1272	434.00	10140
111.00	76584	215.00	4964	320.00	1334	435.00	10849
112.00	10861	216.00	9563	321.00	3525	436.00	15078
113.00	2518	217.00	100696	322.00	860	437.00	15225
114.00	739	218.00	10349	323.00	38152	438.00	15995
115.00	2298	219.00	2597	324.00	8294	439.00	13541
116.00	14233	220.00	3118	326.00	3042	440.00	2885
117.00	267648	221.00	49680	327.00	3875	441.00	177472
118.00	19752	222.00	9022	328.00	4598	442.00	1249280
119.00	1016	223.00	25368	329.00	901	443.00	239808
120.00	3350	224.00	214336	330.00	337	444.00	21536
121.00	2203	225.00	53864	331.00	582	445.00	789
122.00	20472	226.00	5318	332.00	2927	446.00	160
123.00	29744	227.00	99568	333.00	2663	448.00	211
124.00	13348	228.00	14139	334.00	21656	451.00	59
125.00	15672	229.00	19296	335.00	4921	460.00	280
126.00	117	230.00	1060	336.00	859	466.00	191
127.00	963840	231.00	7411	338.00	518	467.00	76
128.00	74984	232.00	1915	339.00	1028	471.00	79
129.00	416256	233.00	1763	340.00	950	472.00	72
130.00	32376	234.00	7414	341.00	2059	474.00	241
131.00	5792	235.00	5213	342.00	1548	476.00	181
132.00	2455	236.00	6971	343.00	678	478.00	461
133.00	2216	237.00	5008	345.00	146	480.00	335
134.00	13386	238.00	1854	346.00	6069	489.00	80
135.00	37432	239.00	3838	347.00	2479	490.00	139
136.00	10064	240.00	3167	348.00	1523	492.00	59
137.00	14352	241.00	5370	349.00	152	493.00	131
138.00	2854	242.00	11481	350.00	474	498.00	80
139.00	2908	243.00	12368	351.00	1631		
140.00	3542	244.00	137216	352.00	10089		
141.00	51568	245.00	18936	353.00	6449		
142.00	14022	246.00	26816	354.00	8552		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100913.b\02.D
Lab Smp Id: SLSTD-2.5 Client Smp ID: SLSTD-2.5
Inj Date : 13-SEP-2010 10:21 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLSTD-2.5;SLSTD-2.5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100913.b\R8270DLL.m
Meth Date : 22-Sep-2010 15:55 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 18:03 Cal File: 20.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.175	3.075	(1.000)	227746	2.00000	(H)
$ 9 2-Fluorophenol	112	2.239	2.160	(0.686)	421984	2.50000	2.55(H)
$ 13 Phenol-d6	99	2.870	2.786	(0.879)	544365	2.50000	2.53
* 45 Naphthalene-d8	136	4.271	4.171	(1.000)	826472	2.00000	(H)
$ 33 Nitrobenzene-d5	82	3.630	3.530	(0.836)	461431	2.50000	2.64(H)
* 86 Acenaphthene-d10	164	5.940	5.835	(1.000)	462687	2.00000	(H)
$ 69 2-Fluorobiphenyl	172	5.298	5.193	(0.886)	738426	2.50000	2.31(H)
* 126 Phenanthrene-d10	188	7.272	7.183	(1.000)	674006	2.00000	(H)
$ 105 2,4,6-Tribromophenol	330	6.705	6.600	(1.121)	87586	2.50000	2.34(H)
* 182 Chrysene-d12	240	9.583	9.456	(1.000)	515549	2.00000	(MH)
$ 158 4-Terphenyl-d14	244	8.593	8.488	(0.889)	463919	2.50000	2.27(H)
* 198 Perylene-d12	264	11.337	11.167	(1.000)	451700	2.00000	(H)
12 Benzaldehyde	77	2.838	2.743	(0.869)	325406	2.50000	2.86(H)
14 Phenol	94	2.881	2.797	(0.882)	480354	2.50000	2.42(H)
17 Bis(2-chloroethyl)ether	93	2.956	2.861	(0.905)	382097	2.50000	2.33(H)
18 2-Chlorophenol	128	3.009	2.914	(0.921)	386475	2.50000	2.43(H)
24 2-Methylphenol	108	3.368	3.278	(1.031)	361735	2.50000	2.45
29 3&4-Methylphenol	107	3.501	3.412	(1.072)	410220	2.50000	2.36(H)
25 bis(2-Chloroisopropyl)ether	45	3.394	3.294	(1.039)	454387	2.50000	2.46
27 Acetophenone	105	3.501	3.406	(0.807)	554441	2.50000	2.55(H)
28 N-Nitroso-di-n-propylamine	70	3.507	3.406	(1.074)	285895	2.50000	2.42(H)
31 Hexachloroethane	117	3.598	3.492	(1.102)	172247	2.50000	2.42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	3.646	3.546	(0.840)	438677	2.50000	2.56(H)
36 Isophorone	82	3.860	3.760	(0.889)	755648	2.50000	2.60(H)
37 2-Nitrophenol	139	3.929	3.829	(0.905)	216345	2.50000	2.52(H)
40 2,4-Dimethylphenol	122	3.967	3.877	(0.914)	337944	2.50000	2.44(H)
41 Bis(2-chloroethoxy)methane	93	4.052	3.957	(0.933)	406825	2.50000	2.45(H)
43 2,4-Dichlorophenol	162	4.143	4.048	(0.954)	300845	2.50000	2.57(H)
46 Naphthalene	128	4.293	4.187	(0.989)	1099186	2.50000	2.39(H)
48 4-Chloroaniline	127	4.341	4.246	(1.000)	416393	2.50000	2.41
51 Hexachlorobutadiene	225	4.421	4.316	(1.018)	130416	2.50000	2.23
57 Caprolactam	113	4.630	4.551	(1.067)	104580	2.50000	2.43(H)
58 4-Chloro-3-Methylphenol	107	4.806	4.717	(1.107)	351918	2.50000	2.58
61 2-Methylnaphthalene	141	4.940	4.840	(1.138)	627334	2.50000	2.51(H)
63 Hexachlorocyclopentadiene	237	5.106	5.000	(0.853)	158380	2.50000	2.44
66 2,4,6-Trichlorophenol	196	5.213	5.118	(0.871)	178778	2.50000	2.37(H)
68 2,4,5-Trichlorophenol	196	5.245	5.150	(0.877)	181594	2.50000	2.22(H)
73 1,1'-Biphenyl	154	5.389	5.289	(0.901)	828316	2.50000	2.32(H)
74 2-Chloronaphthalene	162	5.400	5.300	(0.903)	803840	2.50000	2.42(H)
77 2-Nitroaniline	65	5.502	5.402	(0.920)	203324	2.50000	2.33(H)
80 Dimethylphthalate	163	5.694	5.594	(0.952)	761895	2.50000	2.30(H)
82 2,6-Dinitrotoluene	165	5.742	5.642	(0.960)	186072	2.50000	2.56(H)
83 Acenaphthylene	152	5.796	5.696	(0.969)	1085556	2.50000	2.27
85 3-Nitroaniline	138	5.897	5.803	(0.986)	175384	2.50000	2.30(H)
88 Acenaphthene	154	5.967	5.862	(0.997)	625310	2.50000	2.27(H)
89 2,4-Dinitrophenol	184	5.999	5.904	(1.003)	102481	2.50000	2.53(H)
90 4-Nitrophenol	109	6.074	6.001	(1.015)	152291	2.50000	2.39(H)
92 Dibenzofuran	168	6.138	6.033	(1.026)	905857	2.50000	2.29(H)
93 2,4-Dinitrotoluene	165	6.127	6.027	(1.024)	221883	2.50000	2.26(H)
97 Diethylphthalate	149	6.384	6.284	(1.067)	816611	2.50000	2.25(H)
98 Fluorene	166	6.470	6.364	(1.081)	733099	2.50000	2.26(H)
99 4-Chlorophenyl phenyl ether	204	6.480	6.375	(1.083)	297755	2.50000	2.39
100 4-Nitroaniline	138	6.486	6.391	(1.092)	195248	2.50000	2.45(MH)
101 4,6-Dinitro-2-methylphenol	198	6.523	6.423	(0.887)	125153	2.50000	2.60(H)
102 N-Nitrosodiphenylamine	169	6.593	6.493	(0.896)	619992	2.50000	2.30(H)
112 4-Bromophenyl-phenylether	248	6.951	6.846	(0.945)	141862	2.50000	2.30(H)
113 Hexachlorobenzene	284	6.999	6.899	(0.951)	145997	2.50000	2.27(H)
118 Atrazine	200	7.090	7.006	(0.964)	159342	2.50000	2.44(H)
121 Pentachlorophenol	266	7.144	7.060	(0.971)	85681	2.50000	2.51(H)
128 Phenanthrene	178	7.288	7.199	(0.991)	901045	2.50000	2.26(H)
130 Anthracene	178	7.326	7.236	(0.996)	915434	2.50000	2.30(H)
134 Carbazole	167	7.449	7.359	(1.012)	753468	2.50000	2.13(H)
140 Di-n-butylphthalate	149	7.748	7.653	(1.053)	1336841	2.50000	2.28(H)
149 Fluoranthene	202	8.235	8.135	(1.119)	801910	2.50000	2.29(H)
155 Pyrene	202	8.433	8.327	(0.873)	892422	2.50000	2.23(H)
173 Butylbenzylphthalate	149	9.064	8.958	(0.938)	617004	2.50000	2.21(H)
180 3,3'-Dichlorobenzidine	252	9.572	9.450	(0.999)	179553	2.50000	2.30(MH)
181 Benzo(a)Anthracene	228	9.572	9.450	(0.991)	643718	2.50000	2.16(H)
183 Chrysene	228	9.609	9.483	(0.994)	666793	2.50000	2.24(H)
184 bis(2-ethylhexyl)phthalate	149	9.695	9.579	(1.003)	912983	2.50000	2.27(H)
190 Di-n-octylphthalate	149	10.487	10.344	(0.918)	1520825	2.50000	2.41(H)
192 Benzo(b)fluoranthene	252	10.850	10.691	(0.950)	604797	2.50000	2.36(H)
195 Benzo(k)fluoranthene	252	10.882	10.723	(0.953)	660404	2.50000	2.33(H)
197 Benzo(a)pyrene	252	11.257	11.092	(0.986)	580149	2.50000	2.25(H)
209 Indeno(1,2,3-cd)pyrene	276	12.754	12.563	(1.125)	511454	2.50000	2.43(MH)
210 Dibenzo(a,h)anthracene	278	12.797	12.606	(1.121)	509646	2.50000	2.29

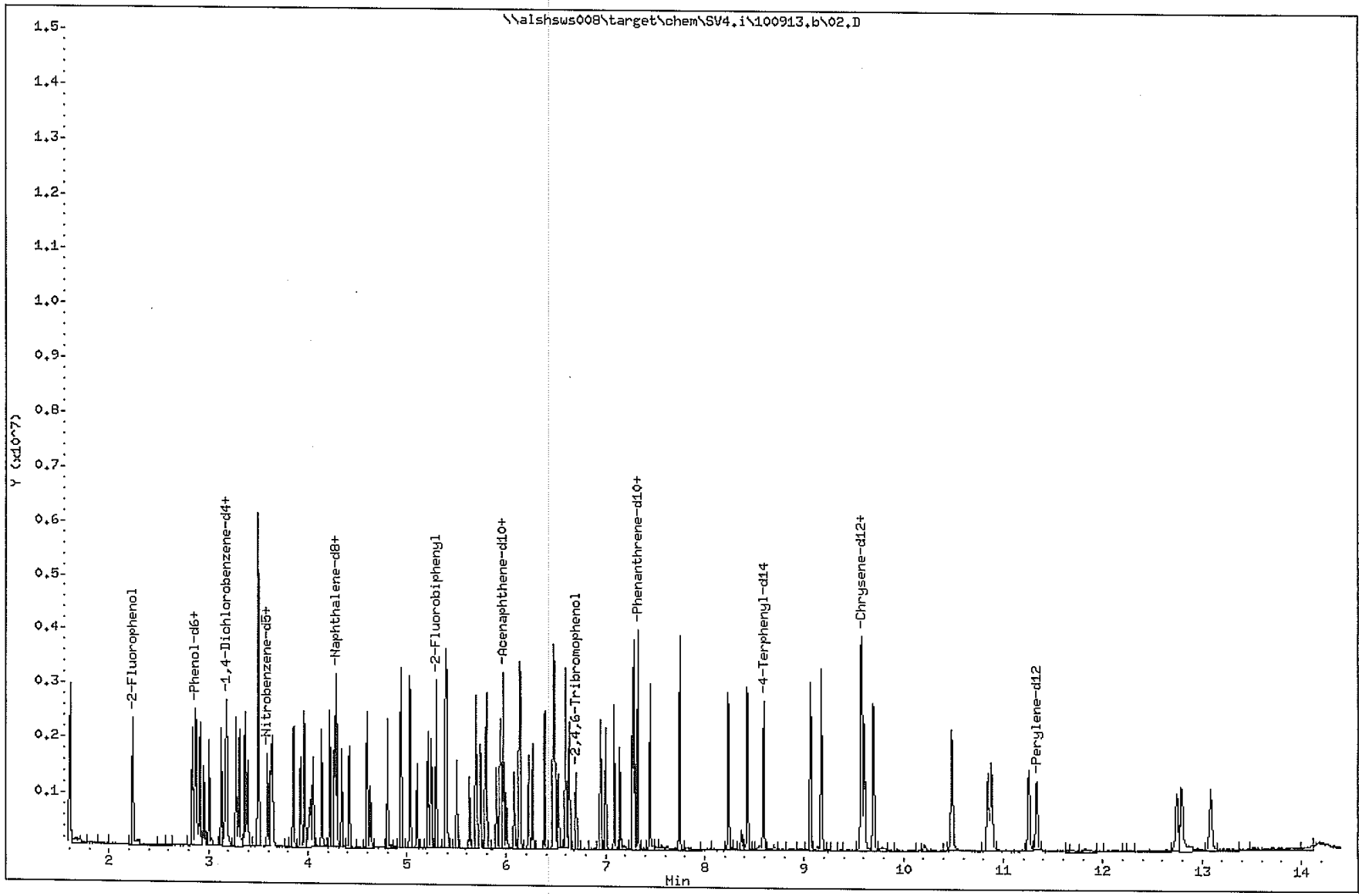
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	13.086	12.895	(1.146)	591573	2.50000	2.35

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alshsws008\target\chem\SV4.i\100913.b\02.D
Date : 13-SEP-2010 10:21
Client ID: SLSTD-2.5
Sample Info: SLSTD-2.5;SLSTD-2.5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV4.i
Operator: lg
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100913.b\03.D
Lab Smp Id: SLSTD-0.2 Client Smp ID: SLSTD-0.2
Inj Date : 13-SEP-2010 11:22 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLSTD-0.2;SLSTD-0.2
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100913.b\R8270DLL.m
Meth Date : 22-Sep-2010 15:55 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 18:03 Cal File: 20.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.170	3.075	(1.000)	235736	2.00000	(Q)
$ 9 2-Fluorophenol	112	2.239	2.160	(0.706)	35128	0.20000	0.20
$ 13 Phenol-d6	99	2.865	2.786	(0.904)	46305	0.20000	0.20
* 45 Naphthalene-d8	136	4.271	4.171	(1.000)	830702	2.00000	
$ 33 Nitrobenzene-d5	82	3.630	3.530	(0.850)	33813	0.20000	0.19(a)
* 86 Acenaphthene-d10	164	5.935	5.835	(1.000)	452196	2.00000	
$ 69 2-Fluorobiphenyl	172	5.293	5.193	(0.892)	62900	0.20000	0.20
* 126 Phenanthrene-d10	188	7.277	7.183	(1.000)	635749	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.705	6.600	(1.130)	8409	0.20000	0.23
* 182 Chrysene-d12	240	9.599	9.456	(1.000)	460518	2.00000	
$ 158 4-Terphenyl-d14	244	8.604	8.488	(0.896)	40908	0.20000	0.22
* 198 Perylene-d12	264	11.353	11.167	(1.000)	433262	2.00000	
12 Benzaldehyde	77	2.838	2.743	(0.895)	24023	0.20000	0.20
14 Phenol	94	2.875	2.797	(0.907)	44415	0.20000	0.21
17 Bis(2-chloroethyl)ether	93	2.956	2.861	(0.933)	34536	0.20000	0.20
18 2-Chlorophenol	128	3.004	2.914	(0.948)	31302	0.20000	0.19(a)
24 2-Methylphenol	108	3.362	3.278	(1.061)	34683	0.20000	0.22
29 3&4-Methylphenol	107	3.496	3.412	(1.103)	35996	0.20000	0.20
25 bis(2-Chloroisopropyl)ether	45	3.389	3.294	(1.069)	42538	0.20000	0.22
27 Acetophenone	105	3.501	3.406	(0.820)	47050	0.20000	0.21
28 N-Nitroso-di-n-propylamine	70	3.501	3.406	(1.105)	30567	0.20000	0.25(Q)
31 Hexachloroethane	117	3.592	3.492	(1.133)	15232	0.20000	0.20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	3.646	3.546	(0.854)	38246	0.20000	0.22
36 Isophorone	82	3.854	3.760	(0.902)	62898	0.20000	0.21
37 2-Nitrophenol	139	3.924	3.829	(0.919)	20001	0.20000	0.23
40 2,4-Dimethylphenol	122	3.966	3.877	(0.929)	31291	0.20000	0.22
41 Bis(2-chloroethoxy)methane	93	4.052	3.957	(0.949)	40199	0.20000	0.24
43 2,4-Dichlorophenol	162	4.138	4.048	(0.969)	27006	0.20000	0.22
46 Naphthalene	128	4.287	4.187	(1.004)	98490	0.20000	0.21
48 4-Chloroaniline	127	4.341	4.246	(1.016)	41825	0.20000	0.24
51 Hexachlorobutadiene	225	4.421	4.316	(1.035)	13131	0.20000	0.22
57 Caprolactam	113	4.630	4.551	(1.084)	8502	0.20000	0.19(a)
58 4-Chloro-3-Methylphenol	107	4.806	4.717	(1.125)	31871	0.20000	0.23
61 2-Methylnaphthalene	141	4.940	4.840	(1.157)	54662	0.20000	0.21
63 Hexachlorocyclopentadiene	237	5.100	5.000	(0.859)	11667	0.20000	0.18(a)
66 2,4,6-Trichlorophenol	196	5.213	5.118	(0.878)	15114	0.20000	0.20
68 2,4,5-Trichlorophenol	196	5.245	5.150	(0.884)	17134	0.20000	0.21
73 1,1'-Biphenyl	154	5.389	5.289	(0.908)	71983	0.20000	0.20
74 2-Chloronaphthalene	162	5.400	5.300	(0.910)	77080	0.20000	0.23
77 2-Nitroaniline	65	5.502	5.402	(0.927)	19240	0.20000	0.22
80 Dimethylphthalate	163	5.689	5.594	(0.959)	65590	0.20000	0.20
82 2,6-Dinitrotoluene	165	5.737	5.642	(0.967)	12659	0.20000	0.17(a)
83 Acenaphthylene	152	5.796	5.696	(0.977)	95818	0.20000	0.20
85 3-Nitroaniline	138	5.897	5.803	(0.994)	16470	0.20000	0.22
88 Acenaphthene	154	5.967	5.862	(1.005)	61302	0.20000	0.22
89 2,4-Dinitrophenol	184	5.999	5.904	(1.011)	3992	0.20000	0.28
90 4-Nitrophenol	109	6.079	6.001	(1.024)	11182	0.20000	0.18(a)
92 Dibenzofuran	168	6.138	6.033	(1.034)	76485	0.20000	0.19(a)
93 2,4-Dinitrotoluene	165	6.127	6.027	(1.032)	18149	0.20000	0.18(a)
97 Diethylphthalate	149	6.379	6.284	(1.075)	77188	0.20000	0.21
98 Fluorene	166	6.470	6.364	(1.090)	65261	0.20000	0.20
99 4-Chlorophenyl phenyl ether	204	6.475	6.375	(1.091)	23000	0.20000	0.18(a)
100 4-Nitroaniline	138	6.486	6.391	(1.093)	16575	0.20000	0.21
101 4,6-Dinitro-2-methylphenol	198	6.518	6.423	(0.896)	8468	0.20000	0.18(a)
102 N-Nitrosodiphenylamine	169	6.593	6.493	(0.906)	55000	0.20000	0.21
112 4-Bromophenyl-phenylether	248	6.951	6.846	(0.955)	13963	0.20000	0.24
113 Hexachlorobenzene	284	7.005	6.899	(0.963)	12865	0.20000	0.21
118 Atrazine	200	7.090	7.006	(0.974)	13726	0.20000	0.22
121 Pentachlorophenol	266	7.149	7.060	(0.982)	7675	0.20000	0.37
128 Phenanthrene	178	7.293	7.199	(1.002)	86724	0.20000	0.23
130 Anthracene	178	7.331	7.236	(1.007)	81929	0.20000	0.21
134 Carbazole	167	7.454	7.359	(1.024)	92199	0.20000	0.27
140 Di-n-butylphthalate	149	7.753	7.653	(1.065)	128014	0.20000	0.23
149 Fluoranthene	202	8.245	8.135	(1.133)	71823	0.20000	0.21
155 Pyrene	202	8.438	8.327	(0.879)	73109	0.20000	0.20
173 Butylbenzylphthalate	149	9.074	8.958	(0.945)	54799	0.20000	0.22
180 3,3'-Dichlorobenzidine	252	9.583	9.450	(0.998)	16174	0.20000	0.23
181 Benzo(a)Anthracene	228	9.583	9.450	(0.998)	61453	0.20000	0.23
183 Chrysene	228	9.625	9.483	(1.003)	64948	0.20000	0.24
184 bis(2-ethylhexyl)phthalate	149	9.711	9.579	(1.012)	75297	0.20000	0.21
190 Di-n-octylphthalate	149	10.503	10.344	(0.925)	124560	0.20000	0.20
192 Benzo(b)fluoranthene	252	10.861	10.691	(0.957)	61528	0.20000	0.25
195 Benzo(k)fluoranthene	252	10.898	10.723	(0.960)	57909	0.20000	0.21
197 Benzo(a)pyrene	252	11.278	11.092	(0.993)	56388	0.20000	0.22
209 Indeno(1,2,3-cd)pyrene	276	12.776	12.563	(1.125)	41609	0.20000	0.20(M)
210 Dibenzo(a,h)anthracene	278	12.813	12.606	(1.129)	43983	0.20000	0.20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	13.113	12.895	(1.155)	52814	0.20000	0.21

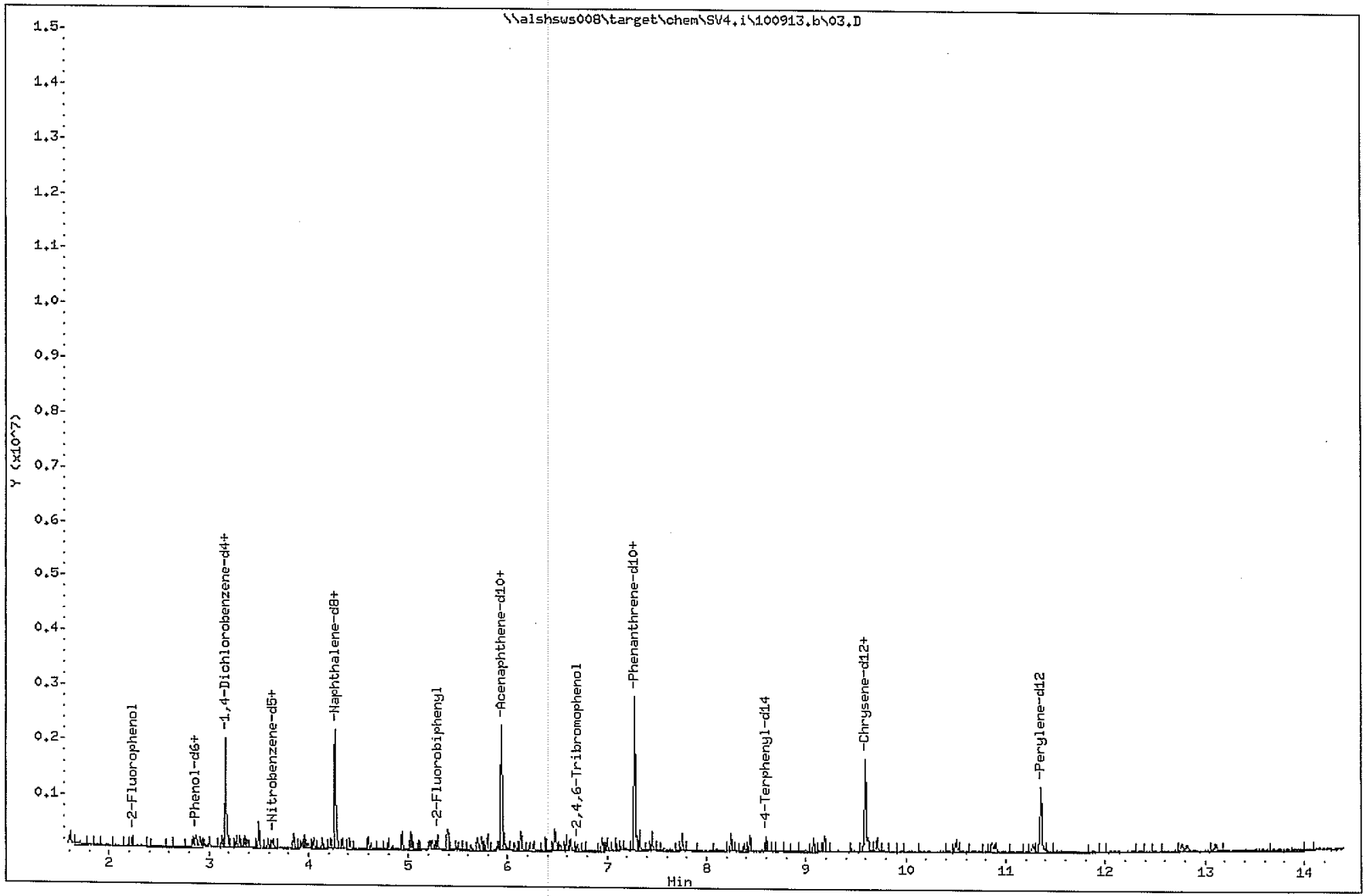
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV4.i\100913.b\03.D
Date : 13-SEP-2010 11:22
Client ID: SLSTD-0.2
Sample Info: SLSTD-0.2;SLSTD-0.2
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV4.i

Operator: lg
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100913.b\04.D
Lab Smp Id: SLSTD-0.5 Client Smp ID: SLSTD-0.5
Inj Date : 13-SEP-2010 11:44 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLSTD-0.5;SLSTD-0.5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100913.b\R8270DLL.m
Meth Date : 22-Sep-2010 15:55 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 18:03 Cal File: 20.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.170	3.075	(1.000)	235353	2.00000	
$ 9 2-Fluorophenol	112	2.239	2.160	(0.706)	79564	0.50000	0.46
$ 13 Phenol-d6	99	2.865	2.786	(0.904)	104842	0.50000	0.47
* 45 Naphthalene-d8	136	4.271	4.171	(1.000)	911675	2.00000	
$ 33 Nitrobenzene-d5	82	3.630	3.530	(0.850)	84880	0.50000	0.44
* 86 Acenaphthene-d10	164	5.935	5.835	(1.000)	456426	2.00000	
$ 69 2-Fluorobiphenyl	172	5.298	5.193	(0.893)	133323	0.50000	0.42
* 126 Phenanthrene-d10	188	7.272	7.183	(1.000)	698749	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.700	6.600	(1.129)	16089	0.50000	0.43
* 182 Chrysene-d12	240	9.583	9.456	(1.000)	511572	2.00000	
$ 158 4-Terphenyl-d14	244	8.593	8.488	(0.897)	89733	0.50000	0.44
* 198 Perylene-d12	264	11.337	11.167	(1.000)	473926	2.00000	
12 Benzaldehyde	77	2.838	2.743	(0.895)	57144	0.50000	0.48
14 Phenol	94	2.875	2.797	(0.907)	95553	0.50000	0.46
17 Bis(2-chloroethyl)ether	93	2.956	2.861	(0.933)	71070	0.50000	0.42
18 2-Chlorophenol	128	3.004	2.914	(0.948)	80589	0.50000	0.49
24 2-Methylphenol	108	3.362	3.278	(1.061)	70805	0.50000	0.46
29 3&4-Methylphenol	107	3.496	3.412	(1.103)	85208	0.50000	0.47
25 bis(2-Chloroisopropyl)ether	45	3.394	3.294	(1.071)	91071	0.50000	0.47
27 Acetophenone	105	3.501	3.406	(0.820)	106265	0.50000	0.44
28 N-Nitroso-di-n-propylamine	70	3.501	3.406	(1.105)	49720	0.50000	0.40(Q)
31 Hexachloroethane	117	3.592	3.492	(1.133)	35943	0.50000	0.49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35	Nitrobenzene	77	3.646	3.546	(0.854)	78009	0.50000	0.41
36	Isophorone	82	3.854	3.760	(0.902)	131396	0.50000	0.41
37	2-Nitrophenol	139	3.924	3.829	(0.919)	39222	0.50000	0.41
40	2,4-Dimethylphenol	122	3.967	3.877	(0.929)	72637	0.50000	0.47
41	Bis(2-chloroethoxy)methane	93	4.052	3.957	(0.949)	82542	0.50000	0.45
43	2,4-Dichlorophenol	162	4.138	4.048	(0.969)	54261	0.50000	0.42
46	Naphthalene	128	4.288	4.187	(1.004)	223963	0.50000	0.44
48	4-Chloroaniline	127	4.341	4.246	(1.016)	84444	0.50000	0.44
51	Hexachlorobutadiene	225	4.421	4.316	(1.035)	33849	0.50000	0.52
57	Caprolactam	113	4.624	4.551	(1.083)	21398	0.50000	0.45
58	4-Chloro-3-Methylphenol	107	4.801	4.717	(1.124)	59833	0.50000	0.39
61	2-Methylnaphthalene	141	4.940	4.840	(1.157)	119153	0.50000	0.43
63	Hexachlorocyclopentadiene	237	5.101	5.000	(0.859)	28256	0.50000	0.44
66	2,4,6-Trichlorophenol	196	5.213	5.118	(0.878)	33814	0.50000	0.45
68	2,4,5-Trichlorophenol	196	5.245	5.150	(0.884)	35146	0.50000	0.43
73	1,1'-Biphenyl	154	5.389	5.289	(0.908)	151654	0.50000	0.43
74	2-Chloronaphthalene	162	5.400	5.300	(0.910)	173440	0.50000	0.50
77	2-Nitroaniline	65	5.502	5.402	(0.927)	39335	0.50000	0.45
80	Dimethylphthalate	163	5.689	5.594	(0.959)	138315	0.50000	0.42
82	2,6-Dinitrotoluene	165	5.737	5.642	(0.967)	29189	0.50000	0.40
83	Acenaphthylene	152	5.796	5.696	(0.977)	212052	0.50000	0.44
85	3-Nitroaniline	138	5.892	5.803	(0.993)	33957	0.50000	0.45
88	Acenaphthene	154	5.967	5.862	(1.005)	116934	0.50000	0.43
89	2,4-Dinitrophenol	184	6.004	5.904	(1.012)	13905	0.50000	0.52(Q)
90	4-Nitrophenol	109	6.069	6.001	(1.023)	26533	0.50000	0.42
92	Dibenzofuran	168	6.133	6.033	(1.033)	175954	0.50000	0.45
93	2,4-Dinitrotoluene	165	6.127	6.027	(1.032)	42928	0.50000	0.44
97	Diethylphthalate	149	6.379	6.284	(1.075)	163062	0.50000	0.45
98	Fluorene	166	6.464	6.364	(1.089)	145760	0.50000	0.45
99	4-Chlorophenyl phenyl ether	204	6.475	6.375	(1.091)	52286	0.50000	0.42
100	4-Nitroaniline	138	6.486	6.391	(1.093)	34435	0.50000	0.43
101	4,6-Dinitro-2-methylphenol	198	6.518	6.423	(0.896)	15964	0.50000	0.32(Q)
102	N-Nitrosodiphenylamine	169	6.593	6.493	(0.907)	127912	0.50000	0.45
112	4-Bromophenyl-phenylether	248	6.951	6.846	(0.956)	22990	0.50000	0.35
113	Hexachlorobenzene	284	6.999	6.899	(0.962)	31085	0.50000	0.46
118	Atrazine	200	7.085	7.006	(0.974)	33752	0.50000	0.49
121	Pentachlorophenol	266	7.144	7.060	(0.982)	8697	0.50000	0.38(QM)
128	Phenanthrene	178	7.288	7.199	(1.002)	177357	0.50000	0.43
130	Anthracene	178	7.326	7.236	(1.007)	167206	0.50000	0.40
134	Carbazole	167	7.449	7.359	(1.024)	180641	0.50000	0.49
140	Di-n-butylphthalate	149	7.748	7.653	(1.065)	267071	0.50000	0.44
149	Fluoranthene	202	8.235	8.135	(1.132)	157590	0.50000	0.43
155	Pyrene	202	8.427	8.327	(0.879)	176380	0.50000	0.44
173	Butylbenzylphthalate	149	9.064	8.958	(0.946)	121567	0.50000	0.43
180	3,3'-Dichlorobenzidine	252	9.572	9.450	(0.999)	41433	0.50000	0.53
181	Benzo(a)Anthracene	228	9.572	9.450	(0.999)	137333	0.50000	0.46
183	Chrysene	228	9.609	9.483	(1.003)	133961	0.50000	0.45
184	bis(2-ethylhexyl)phthalate	149	9.695	9.579	(1.012)	170046	0.50000	0.42
190	Di-n-octylphthalate	149	10.487	10.344	(0.925)	294619	0.50000	0.44
192	Benzo(b)fluoranthene	252	10.845	10.691	(0.957)	106715	0.50000	0.39(M)
195	Benzo(k)fluoranthene	252	10.882	10.723	(0.960)	118311	0.50000	0.39
197	Benzo(a)pyrene	252	11.257	11.092	(0.993)	116065	0.50000	0.43
209	Indeno(1,2,3-cd)pyrene	276	12.744	12.563	(1.124)	81345	0.50000	0.36(M)
210	Dibenzo(a,h)anthracene	278	12.797	12.606	(1.129)	96173	0.50000	0.41

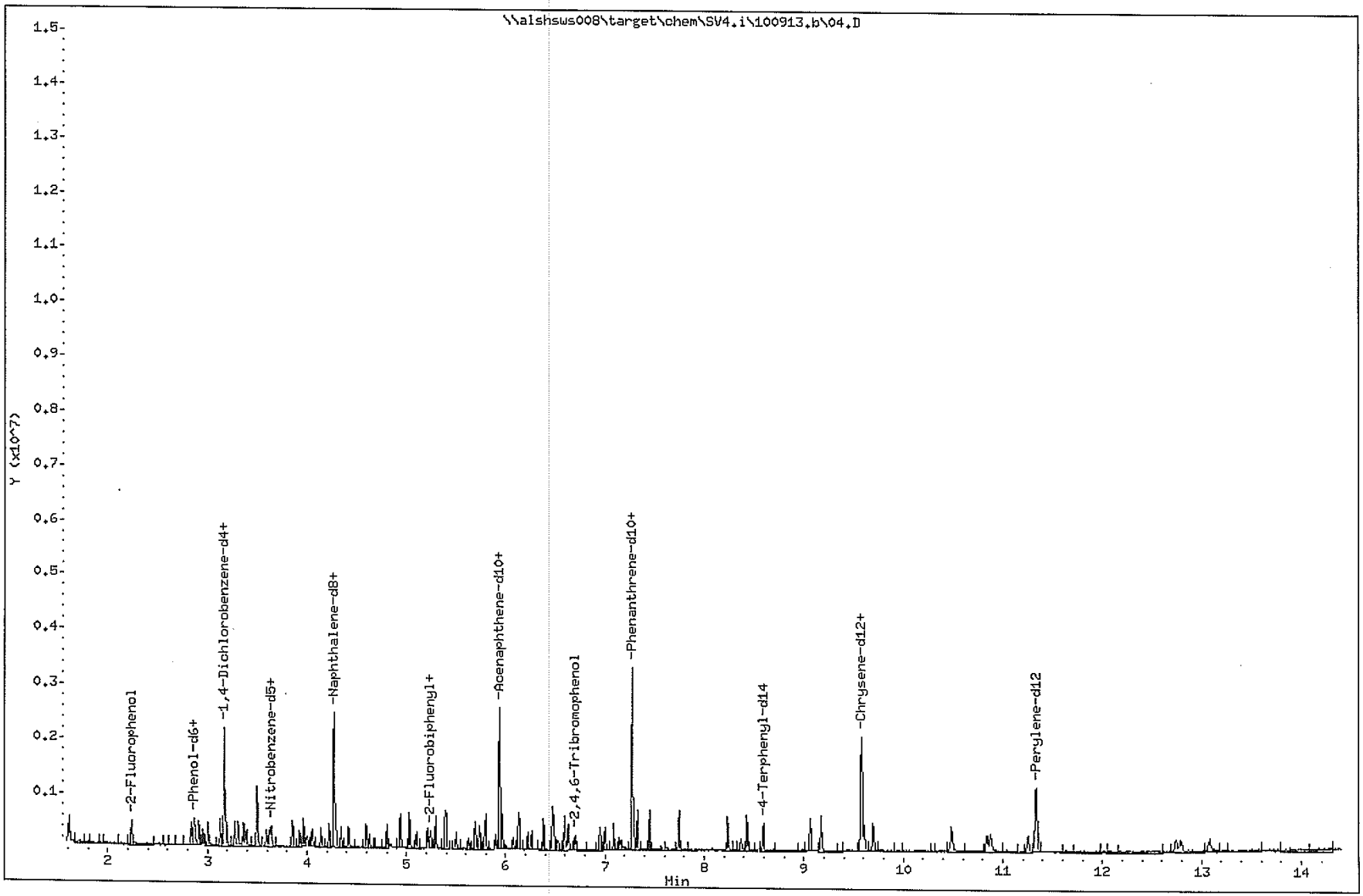
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	13.086	12.895	(1.154)	108478	0.50000	0.41

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV4.i\100913.b\04.D
Date : 13-SEP-2010 11:44
Client ID: SLSTD-0.5
Sample Info: SLSTD-0.5;SLSTD-0.5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV4.i
Operator: lg
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100913.b\05.D
Lab Smp Id: SLSTD-1.0 Client Smp ID: SLSTD-1.0
Inj Date : 13-SEP-2010 12:04 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLSTD-1.0;SLSTD-1.0
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100913.b\R8270DLL.m
Meth Date : 22-Sep-2010 15:55 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 18:03 Cal File: 20.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.170	3.075	(1.000)	192910	2.00000	
$ 9 2-Fluorophenol	112	2.239	2.160	(0.706)	136416	1.00000	0.97
$ 13 Phenol-d6	99	2.865	2.786	(0.904)	187089	1.00000	1.02
* 45 Naphthalene-d8	136	4.271	4.171	(1.000)	762406	2.00000	
$ 33 Nitrobenzene-d5	82	3.630	3.530	(0.850)	157647	1.00000	0.97
* 86 Acenaphthene-d10	164	5.935	5.835	(1.000)	394923	2.00000	
$ 69 2-Fluorobiphenyl	172	5.298	5.193	(0.893)	281804	1.00000	1.03(Q)
* 126 Phenanthrene-d10	188	7.277	7.183	(1.000)	582634	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.700	6.600	(1.129)	27617	1.00000	0.86
* 182 Chrysene-d12	240	9.593	9.456	(1.000)	436519	2.00000	
$ 158 4-Terphenyl-d14	244	8.598	8.488	(0.896)	166139	1.00000	0.96
* 198 Perylene-d12	264	11.348	11.167	(1.000)	386587	2.00000	
12 Benzaldehyde	77	2.838	2.743	(0.895)	101458	1.00000	1.05
14 Phenol	94	2.875	2.797	(0.907)	174314	1.00000	1.03
17 Bis(2-chloroethyl)ether	93	2.956	2.861	(0.933)	155970	1.00000	1.12
18 2-Chlorophenol	128	3.004	2.914	(0.948)	134753	1.00000	1.00
24 2-Methylphenol	108	3.362	3.278	(1.061)	126537	1.00000	1.01
29 3&4-Methylphenol	107	3.496	3.412	(1.103)	156617	1.00000	1.06
25 bis(2-Chloroisopropyl)ether	45	3.394	3.294	(1.071)	168199	1.00000	1.07
27 Acetophenone	105	3.501	3.406	(0.820)	179678	1.00000	0.89
28 N-Nitroso-di-n-propylamine	70	3.501	3.406	(1.105)	101418	1.00000	1.01
31 Hexachloroethane	117	3.592	3.492	(1.133)	61793	1.00000	1.02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	3.646	3.546	(0.854)	163607	1.00000	1.03
36 Isophorone	82	3.854	3.760	(0.902)	262285	1.00000	0.97
37 2-Nitrophenol	139	3.929	3.829	(0.920)	74565	1.00000	0.94
40 2,4-Dimethylphenol	122	3.966	3.877	(0.929)	124639	1.00000	0.97
41 Bis(2-chloroethoxy)methane	93	4.052	3.957	(0.949)	148169	1.00000	0.96
43 2,4-Dichlorophenol	162	4.143	4.048	(0.970)	101026	1.00000	0.93
46 Naphthalene	128	4.293	4.187	(1.005)	407834	1.00000	0.96
48 4-Chloroaniline	127	4.341	4.246	(1.016)	148948	1.00000	0.93
51 Hexachlorobutadiene	225	4.421	4.316	(1.035)	49248	1.00000	0.91
57 Caprolactam	113	4.630	4.551	(1.084)	41114	1.00000	1.03
58 4-Chloro-3-Methylphenol	107	4.806	4.717	(1.125)	119347	1.00000	0.95
61 2-Methylnaphthalene	141	4.940	4.840	(1.157)	222109	1.00000	0.96
63 Hexachlorocyclopentadiene	237	5.106	5.000	(0.860)	50496	1.00000	0.91
66 2,4,6-Trichlorophenol	196	5.213	5.118	(0.878)	63655	1.00000	0.98
68 2,4,5-Trichlorophenol	196	5.245	5.150	(0.884)	72298	1.00000	1.03
73 1,1'-Biphenyl	154	5.389	5.289	(0.908)	299205	1.00000	0.98
74 2-Chloronaphthalene	162	5.400	5.300	(0.910)	267264	1.00000	0.90
77 2-Nitroaniline	65	5.502	5.402	(0.927)	67833	1.00000	0.91
80 Dimethylphthalate	163	5.689	5.594	(0.959)	299497	1.00000	1.06
82 2,6-Dinitrotoluene	165	5.737	5.642	(0.967)	65634	1.00000	1.05
83 Acenaphthylene	152	5.796	5.696	(0.977)	407730	1.00000	0.99
85 3-Nitroaniline	138	5.897	5.803	(0.994)	71887	1.00000	1.10
88 Acenaphthene	154	5.967	5.862	(1.005)	226678	1.00000	0.96
89 2,4-Dinitrophenol	184	5.999	5.904	(1.011)	27903	1.00000	0.95
90 4-Nitrophenol	109	6.074	6.001	(1.023)	47357	1.00000	0.87(M)
92 Dibenzofuran	168	6.138	6.033	(1.034)	331856	1.00000	0.98
93 2,4-Dinitrotoluene	165	6.127	6.027	(1.032)	84570	1.00000	1.01
97 Diethylphthalate	149	6.379	6.284	(1.075)	299532	1.00000	0.96
98 Fluorene	166	6.470	6.364	(1.090)	266845	1.00000	0.96
99 4-Chlorophenyl phenyl ether	204	6.480	6.375	(1.092)	111941	1.00000	1.05
100 4-Nitroaniline	138	6.486	6.391	(1.093)	63823	1.00000	0.94
101 4,6-Dinitro-2-methylphenol	198	6.523	6.423	(0.896)	40500	1.00000	0.97(Q)
102 N-Nitrosodiphenylamine	169	6.593	6.493	(0.906)	229775	1.00000	0.99
112 4-Bromophenyl-phenylether	248	6.951	6.846	(0.955)	56070	1.00000	1.05(Q)
113 Hexachlorobenzene	284	6.999	6.899	(0.962)	57395	1.00000	1.03
118 Atrazine	200	7.090	7.006	(0.974)	49288	1.00000	0.87
121 Pentachlorophenol	266	7.144	7.060	(0.982)	23780	1.00000	0.92
128 Phenanthrene	178	7.293	7.199	(1.002)	337116	1.00000	0.98
130 Anthracene	178	7.331	7.236	(1.007)	342458	1.00000	0.99
134 Carbazole	167	7.454	7.359	(1.024)	327605	1.00000	1.07
140 Di-n-butylphthalate	149	7.753	7.653	(1.065)	479845	1.00000	0.94
149 Fluoranthene	202	8.245	8.135	(1.133)	294727	1.00000	0.97
155 Pyrene	202	8.438	8.327	(0.880)	344632	1.00000	1.02
173 Butylbenzylphthalate	149	9.074	8.958	(0.946)	230353	1.00000	0.97
180 3,3'-Dichlorobenzidine	252	9.588	9.450	(0.999)	69718	1.00000	1.05
181 Benzo(a)Anthracene	228	9.583	9.450	(0.999)	229796	1.00000	0.91
183 Chrysene	228	9.620	9.483	(1.003)	227136	1.00000	0.90
184 bis(2-ethylhexyl)phthalate	149	9.711	9.579	(1.012)	339667	1.00000	1.00
190 Di-n-octylphthalate	149	10.503	10.344	(0.926)	494496	1.00000	0.91
192 Benzo(b)fluoranthene	252	10.866	10.691	(0.958)	214272	1.00000	0.97
195 Benzo(k)fluoranthene	252	10.893	10.723	(0.960)	261587	1.00000	1.08
197 Benzo(a)pyrene	252	11.273	11.092	(0.993)	212342	1.00000	0.96
209 Indeno(1,2,3-cd)pyrene	276	12.765	12.563	(1.125)	172308	1.00000	0.95(M)
210 Dibenzo(a,h)anthracene	278	12.813	12.606	(1.129)	180136	1.00000	0.94

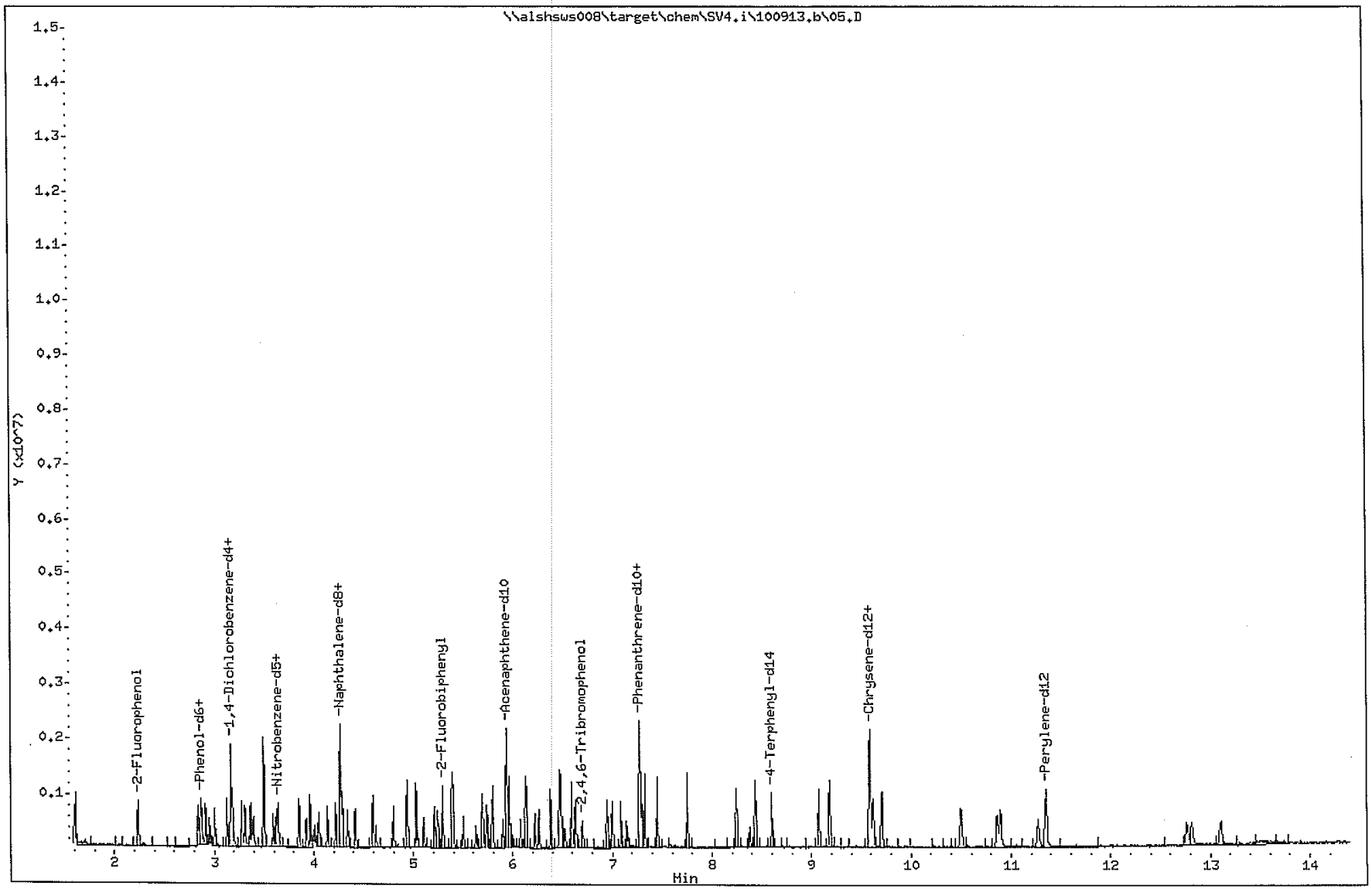
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	13.107	12.895	(1.155)	223529	1.00000	1.04

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV4.i\100913.b\05.D
Date : 13-SEP-2010 12:04
Client ID: SLSTD-1.0
Sample Info: SLSTD-1.0;SLSTD-1.0
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV4.i
Operator: lg
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100913.b\06.D
Lab Smp Id: SLSTD-5.0 Client Smp ID: SLSTD-5.0
Inj Date : 13-SEP-2010 12:24 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLSTD-5.0;SLSTD-5.0
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100913.b\R8270DLL.m
Meth Date : 22-Sep-2010 15:55 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 18:03 Cal File: 20.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.170	3.075	(1.000)	233972	2.00000	
$ 9 2-Fluorophenol	112	2.239	2.160	(0.706)	742468	5.00000	4.37
$ 13 Phenol-d6	99	2.870	2.786	(0.906)	1015149	5.00000	4.60
* 45 Naphthalene-d8	136	4.271	4.171	(1.000)	800223	2.00000	
$ 33 Nitrobenzene-d5	82	3.630	3.530	(0.850)	867917	5.00000	5.13
* 86 Acenaphthene-d10	164	5.940	5.835	(1.000)	420155	2.00000	
$ 69 2-Fluorobiphenyl	172	5.298	5.193	(0.892)	1448206	5.00000	4.99(Q)
* 126 Phenanthrene-d10	188	7.277	7.183	(1.000)	621522	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.705	6.600	(1.129)	162701	5.00000	4.79
* 182 Chrysene-d12	240	9.593	9.456	(1.000)	454709	2.00000	
$ 158 4-Terphenyl-d14	244	8.604	8.488	(0.897)	907353	5.00000	5.05
* 198 Perylene-d12	264	11.353	11.167	(1.000)	426839	2.00000	
12 Benzaldehyde	77	2.838	2.743	(0.895)	499735	5.00000	4.27
14 Phenol	94	2.881	2.797	(0.909)	894251	5.00000	4.39
17 Bis(2-chloroethyl)ether	93	2.956	2.861	(0.933)	818302	5.00000	4.87
18 2-Chlorophenol	128	3.009	2.914	(0.949)	806352	5.00000	4.94
24 2-Methylphenol	108	3.367	3.278	(1.062)	674622	5.00000	4.45
29 3&4-Methylphenol	107	3.501	3.412	(1.105)	843342	5.00000	4.73
25 bis(2-Chloroisopropyl)ether	45	3.394	3.294	(1.071)	823933	5.00000	4.35
27 Acetophenone	105	3.501	3.406	(0.820)	1048944	5.00000	5.00
28 N-Nitroso-di-n-propylamine	70	3.507	3.406	(1.106)	546662	5.00000	4.51
31 Hexachloroethane	117	3.597	3.492	(1.135)	335959	5.00000	4.60

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	3.646	3.546	(0.854)	805400	5.00000	4.85
36 Isophorone	82	3.860	3.760	(0.904)	1415727	5.00000	5.03
37 2-Nitrophenol	139	3.929	3.829	(0.920)	427308	5.00000	5.15
40 2,4-Dimethylphenol	122	3.966	3.877	(0.929)	635115	5.00000	4.74
41 Bis(2-chloroethoxy)methane	93	4.052	3.957	(0.949)	756619	5.00000	4.71
43 2,4-Dichlorophenol	162	4.143	4.048	(0.970)	560815	5.00000	4.94
46 Naphthalene	128	4.293	4.187	(1.005)	2166645	5.00000	4.88
48 4-Chloroaniline	127	4.346	4.246	(1.018)	806814	5.00000	4.82
51 Hexachlorobutadiene	225	4.421	4.316	(1.035)	279412	5.00000	4.95
57 Caprolactam	113	4.646	4.551	(1.088)	207109	5.00000	4.98
58 4-Chloro-3-Methylphenol	107	4.806	4.717	(1.125)	651410	5.00000	4.95
61 2-Methylnaphthalene	141	4.940	4.840	(1.157)	1215023	5.00000	5.02
63 Hexachlorocyclopentadiene	237	5.106	5.000	(0.860)	305119	5.00000	5.18
66 2,4,6-Trichlorophenol	196	5.213	5.118	(0.878)	337594	5.00000	4.93
68 2,4,5-Trichlorophenol	196	5.245	5.150	(0.883)	367225	5.00000	4.94
73 1,1'-Biphenyl	154	5.389	5.289	(0.907)	1635553	5.00000	5.06
74 2-Chloronaphthalene	162	5.400	5.300	(0.909)	1400879	5.00000	4.37
77 2-Nitroaniline	65	5.502	5.402	(0.926)	395341	5.00000	4.99
80 Dimethylphthalate	163	5.694	5.594	(0.959)	1522756	5.00000	5.07
82 2,6-Dinitrotoluene	165	5.742	5.642	(0.967)	342245	5.00000	5.19
83 Acenaphthylene	152	5.801	5.696	(0.977)	2172007	5.00000	5.00
85 3-Nitroaniline	138	5.903	5.803	(0.994)	337613	5.00000	4.88(H)
88 Acenaphthene	154	5.967	5.862	(1.004)	1259445	5.00000	5.05
89 2,4-Dinitrophenol	184	5.999	5.904	(1.010)	185546	5.00000	4.68
90 4-Nitrophenol	109	6.079	6.001	(1.023)	302701	5.00000	5.24
92 Dibenzofuran	168	6.138	6.033	(1.033)	1809767	5.00000	5.05
93 2,4-Dinitrotoluene	165	6.127	6.027	(1.032)	458102	5.00000	5.14
97 Diethylphthalate	149	6.384	6.284	(1.075)	1616577	5.00000	4.91
98 Fluorene	166	6.470	6.364	(1.089)	1477696	5.00000	5.03
99 4-Chlorophenyl phenyl ether	204	6.480	6.375	(1.091)	577337	5.00000	5.10
100 4-Nitroaniline	138	6.491	6.391	(1.093)	370400	5.00000	5.13
101 4,6-Dinitro-2-methylphenol	198	6.523	6.423	(0.896)	225567	5.00000	5.09
102 N-Nitrosodiphenylamine	169	6.593	6.493	(0.906)	1203426	5.00000	4.86
112 4-Bromophenyl-phenylether	248	6.951	6.846	(0.955)	277966	5.00000	4.89
113 Hexachlorobenzene	284	7.005	6.899	(0.963)	283893	5.00000	4.79
118 Atrazine	200	7.090	7.006	(0.974)	298371	5.00000	4.96
121 Pentachlorophenol	266	7.149	7.060	(0.982)	168111	5.00000	4.96
128 Phenanthrene	178	7.293	7.199	(1.002)	1804055	5.00000	4.92
130 Anthracene	178	7.331	7.236	(1.007)	1787688	5.00000	4.88
134 Carbazole	167	7.454	7.359	(1.024)	1498620	5.00000	4.59(M)
140 Di-n-butylphthalate	149	7.753	7.653	(1.065)	2801597	5.00000	5.19
149 Fluoranthene	202	8.245	8.135	(1.133)	1634332	5.00000	5.06
155 Pyrene	202	8.438	8.327	(0.880)	1797504	5.00000	5.11
173 Butylbenzylphthalate	149	9.074	8.958	(0.946)	1244551	5.00000	5.06
180 3,3'-Dichlorobenzidine	252	9.588	9.450	(0.999)	341285	5.00000	4.96
181 Benzo(a)Anthracene	228	9.588	9.450	(0.999)	1344296	5.00000	5.11
183 Chrysene	228	9.625	9.483	(1.003)	1282211	5.00000	4.89
184 bis(2-ethylhexyl)phthalate	149	9.711	9.579	(1.012)	1811428	5.00000	5.12
190 Di-n-octylphthalate	149	10.503	10.344	(0.925)	2959298	5.00000	4.97
192 Benzo(b)fluoranthene	252	10.866	10.691	(0.957)	1158594	5.00000	4.79
195 Benzo(k)fluoranthene	252	10.898	10.723	(0.960)	1411468	5.00000	5.28
197 Benzo(a)pyrene	252	11.278	11.092	(0.993)	1218346	5.00000	5.01
209 Indeno(1,2,3-cd)pyrene	276	12.776	12.563	(1.125)	1048510	5.00000	5.28
210 Dibenzo(a,h)anthracene	278	12.818	12.606	(1.129)	1073716	5.00000	5.12

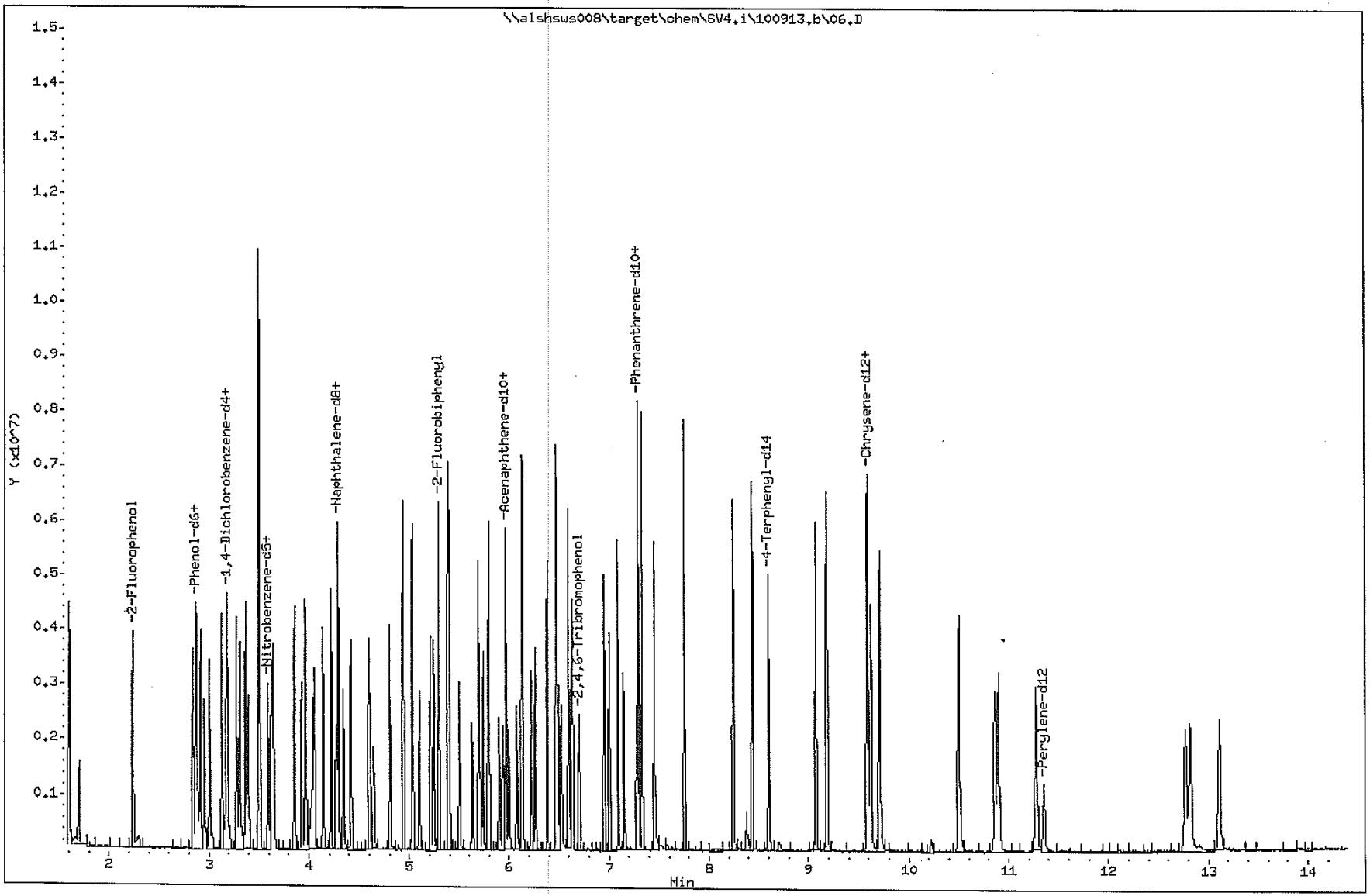
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	13.118	12.895	(1.155)	1224571	5.00000	5.16

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alshsws008\target\chem\SV4.i\100913.b\06.D
Date : 13-SEP-2010 12:24
Client ID: SLSTD-5.0
Sample Info: SLSTD-5.0;SLSTD-5.0
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV4.i
Operator: lg
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100913.b\07.D
Lab Smp Id: SLSTD-7.5 Client Smp ID: SLSTD-7.5
Inj Date : 13-SEP-2010 12:45 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLSTD-7.5;SLSTD-7.5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100913.b\R8270DLL.m
Meth Date : 22-Sep-2010 15:55 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 18:03 Cal File: 20.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.175	3.075	(1.000)	314836	2.00000	(Q)
$ 9 2-Fluorophenol	112	2.244	2.160	(0.707)	1808644	7.50000	7.92
$ 13 Phenol-d6	99	2.875	2.786	(0.906)	2234346	7.50000	7.53
* 45 Naphthalene-d8	136	4.271	4.171	(1.000)	1176253	2.00000	
$ 33 Nitrobenzene-d5	82	3.635	3.530	(0.851)	1967299	7.50000	7.91
* 86 Acenaphthene-d10	164	5.940	5.835	(1.000)	606806	2.00000	
$ 69 2-Fluorobiphenyl	172	5.298	5.193	(0.892)	3507656	7.50000	8.37
* 126 Phenanthrene-d10	188	7.272	7.183	(1.000)	909240	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.705	6.600	(1.129)	413013	7.50000	8.42
* 182 Chrysene-d12	240	9.588	9.456	(1.000)	686670	2.00000	
$ 158 4-Terphenyl-d14	244	8.593	8.488	(0.896)	2096974	7.50000	7.73
* 198 Perylene-d12	264	11.337	11.167	(1.000)	656038	2.00000	
12 Benzaldehyde	77	2.843	2.743	(0.896)	1141094	7.50000	7.26
14 Phenol	94	2.886	2.797	(0.909)	2118735	7.50000	7.73
17 Bis(2-chloroethyl)ether	93	2.961	2.861	(0.933)	1720857	7.50000	7.61
18 2-Chlorophenol	128	3.009	2.914	(0.948)	1715825	7.50000	7.81
24 2-Methylphenol	108	3.373	3.278	(1.062)	1557021	7.50000	7.63
29 3&4-Methylphenol	107	3.507	3.412	(1.104)	1839485	7.50000	7.66
25 bis(2-Chloroisopropyl)ether	45	3.394	3.294	(1.069)	1867261	7.50000	7.33
27 Acetophenone	105	3.507	3.406	(0.821)	2432768	7.50000	7.89
28 N-Nitroso-di-n-propylamine	70	3.512	3.406	(1.106)	1224134	7.50000	7.51
31 Hexachloroethane	117	3.598	3.492	(1.133)	723460	7.50000	7.37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	3.651	3.546	(0.855)	1843237	7.50000	7.56
36 Isophorone	82	3.860	3.760	(0.904)	3233441	7.50000	7.82
37 2-Nitrophenol	139	3.929	3.829	(0.920)	902166	7.50000	7.40
40 2,4-Dimethylphenol	122	3.972	3.877	(0.930)	1478668	7.50000	7.51
41 Bis(2-chloroethoxy)methane	93	4.058	3.957	(0.950)	1772674	7.50000	7.51
43 2,4-Dichlorophenol	162	4.148	4.048	(0.971)	1279925	7.50000	7.68
46 Naphthalene	128	4.293	4.187	(1.005)	5163325	7.50000	7.91
48 4-Chloroaniline	127	4.346	4.246	(1.018)	1865840	7.50000	7.59
51 Hexachlorobutadiene	225	4.421	4.316	(1.035)	617158	7.50000	7.44
57 Caprolactam	113	4.667	4.551	(1.093)	482285	7.50000	7.89
58 4-Chloro-3-Methylphenol	107	4.812	4.717	(1.126)	1486472	7.50000	7.68
61 2-Methylnaphthalene	141	4.940	4.840	(1.157)	2712135	7.50000	7.63
63 Hexachlorocyclopentadiene	237	5.106	5.000	(0.860)	744285	7.50000	8.76
66 2,4,6-Trichlorophenol	196	5.218	5.118	(0.878)	810703	7.50000	8.20
68 2,4,5-Trichlorophenol	196	5.250	5.150	(0.884)	855073	7.50000	7.97
73 1,1'-Biphenyl	154	5.395	5.289	(0.908)	3850945	7.50000	8.25
74 2-Chloronaphthalene	162	5.405	5.300	(0.910)	3660800	7.50000	8.01
77 2-Nitroaniline	65	5.507	5.402	(0.927)	930865	7.50000	8.14
80 Dimethylphthalate	163	5.700	5.594	(0.959)	3543030	7.50000	8.17
82 2,6-Dinitrotoluene	165	5.748	5.642	(0.968)	773831	7.50000	8.13
83 Acenaphthylene	152	5.801	5.696	(0.977)	5093964	7.50000	8.12
85 3-Nitroaniline	138	5.908	5.803	(0.995)	782358	7.50000	7.83(H)
88 Acenaphthene	154	5.972	5.862	(1.005)	2899271	7.50000	8.05
89 2,4-Dinitrophenol	184	6.004	5.904	(1.011)	492731	7.50000	7.90
90 4-Nitrophenol	109	6.085	6.001	(1.024)	751585	7.50000	9.01
92 Dibenzofuran	168	6.138	6.033	(1.033)	4250251	7.50000	8.22
93 2,4-Dinitrotoluene	165	6.133	6.027	(1.032)	1087770	7.50000	8.46
97 Diethylphthalate	149	6.384	6.284	(1.075)	3855783	7.50000	8.12
98 Fluorene	166	6.470	6.364	(1.089)	3479231	7.50000	8.20
99 4-Chlorophenyl phenyl ether	204	6.480	6.375	(1.091)	1370725	7.50000	8.39
100 4-Nitroaniline	138	6.496	6.391	(1.094)	850510	7.50000	8.16
101 4,6-Dinitro-2-methylphenol	198	6.529	6.423	(0.898)	594703	7.50000	9.18
102 N-Nitrosodiphenylamine	169	6.598	6.493	(0.907)	2889386	7.50000	7.97
112 4-Bromophenyl-phenylether	248	6.951	6.846	(0.956)	679312	7.50000	8.17
113 Hexachlorobenzene	284	7.005	6.899	(0.963)	691903	7.50000	7.99
118 Atrazine	200	7.096	7.006	(0.976)	695009	7.50000	7.89
121 Pentachlorophenol	266	7.149	7.060	(0.983)	400128	7.50000	7.53
128 Phenanthrene	178	7.293	7.199	(1.003)	4272555	7.50000	7.97
130 Anthracene	178	7.331	7.236	(1.008)	4444004	7.50000	8.30
134 Carbazole	167	7.454	7.359	(1.025)	3237213	7.50000	6.79(M)
140 Di-n-butylphthalate	149	7.748	7.653	(1.065)	6307504	7.50000	7.99
149 Fluoranthene	202	8.240	8.135	(1.133)	3803755	7.50000	8.06
155 Pyrene	202	8.433	8.327	(0.880)	4142775	7.50000	7.80
173 Butylbenzylphthalate	149	9.064	8.958	(0.945)	2934288	7.50000	7.90
180 3,3'-Dichlorobenzidine	252	9.577	9.450	(0.999)	739738	7.50000	7.12
181 Benzo(a)Anthracene	228	9.577	9.450	(0.999)	3121363	7.50000	7.87
183 Chrysene	228	9.615	9.483	(1.003)	3081756	7.50000	7.78
184 bis(2-ethylhexyl)phthalate	149	9.700	9.579	(1.012)	4309605	7.50000	8.07
190 Di-n-octylphthalate	149	10.487	10.344	(0.925)	7248084	7.50000	7.92
192 Benzo(b)fluoranthene	252	10.856	10.691	(0.958)	2710838	7.50000	7.30
195 Benzo(k)fluoranthene	252	10.893	10.723	(0.961)	3014361	7.50000	7.33(M)
197 Benzo(a)pyrene	252	11.267	11.092	(0.994)	2834544	7.50000	7.59
209 Indeno(1,2,3-cd)pyrene	276	12.765	12.563	(1.126)	2490521	7.50000	8.17(M)
210 Dibenzo(a,h)anthracene	278	12.808	12.606	(1.130)	2610009	7.50000	8.10

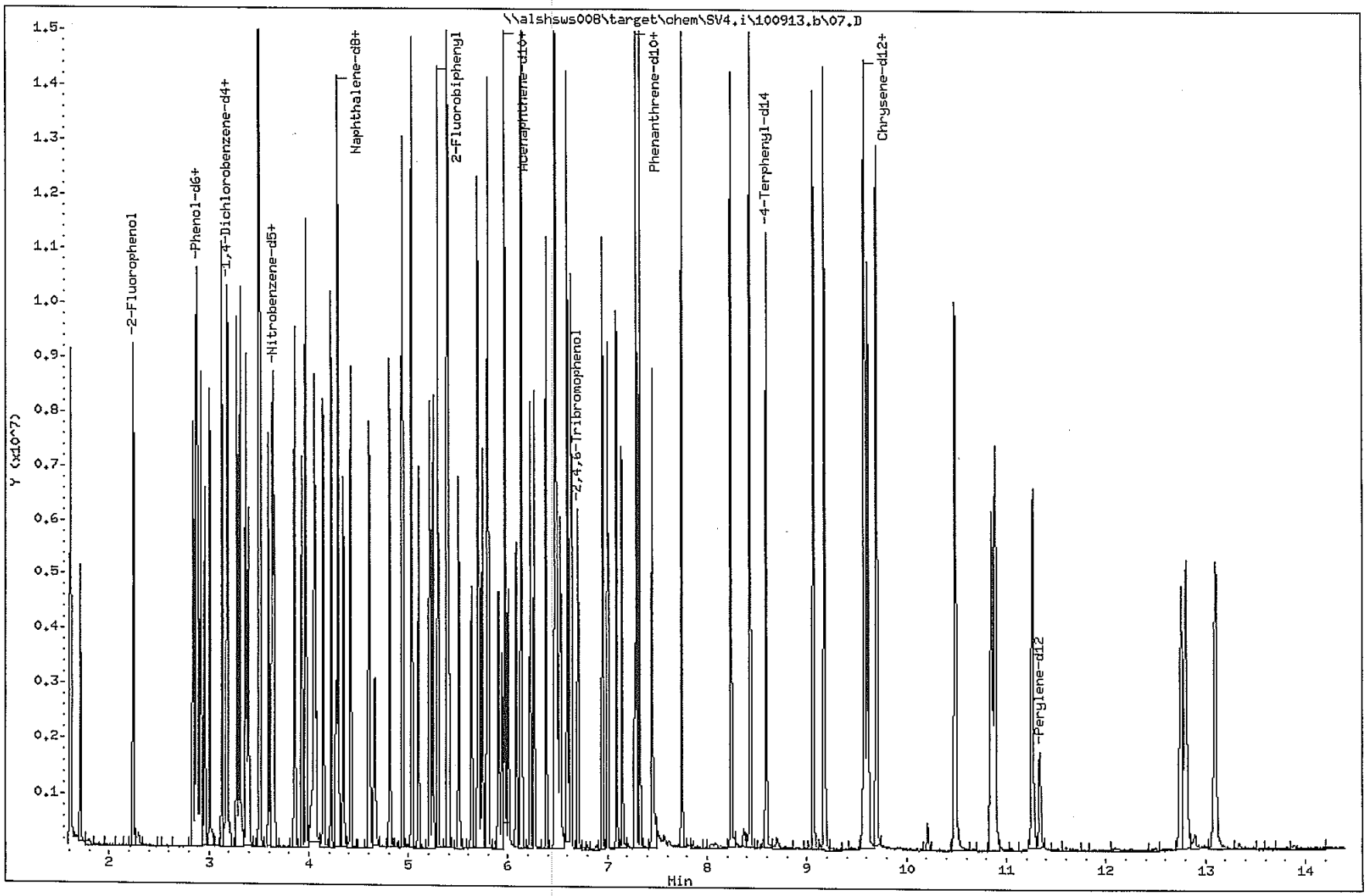
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	13.107	12.895	(1.156)	2788894	7.50000	7.64

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alshsws008\target\chem\SV4.i\100913.b\07.D
Date : 13-SEP-2010 12:45
Client ID: SLSTD-7.5
Sample Info: SLSTD-7.5;SLSTD-7.5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV4.i
Operator: lg
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100913.b\08.D
Lab Smp Id: SLSTD-10.0 Client Smp ID: SLSTD-10.0
Inj Date : 13-SEP-2010 13:05 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLSTD-10.0;SLSTD-10.0
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100913.b\R8270DLL.m
Meth Date : 22-Sep-2010 15:55 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 18:03 Cal File: 20.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.175	3.075	(1.000)	254648	2.00000	(Q)
$ 9 2-Fluorophenol	112	2.244	2.160	(0.707)	2041008	10.0000	11.06(A)
$ 13 Phenol-d6	99	2.875	2.786	(0.906)	2503078	10.0000	10.43(A)
* 45 Naphthalene-d8	136	4.271	4.171	(1.000)	978394	2.00000	
$ 33 Nitrobenzene-d5	82	3.635	3.530	(0.851)	2138292	10.0000	10.34(A)
* 86 Acenaphthene-d10	164	5.940	5.835	(1.000)	529530	2.00000	
$ 69 2-Fluorobiphenyl	172	5.298	5.193	(0.892)	3927204	10.0000	10.74(A)
* 126 Phenanthrene-d10	188	7.277	7.183	(1.000)	789530	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.705	6.600	(1.129)	467510	10.0000	10.92(A)
* 182 Chrysene-d12	240	9.588	9.456	(1.000)	561356	2.00000	
$ 158 4-Terphenyl-d14	244	8.593	8.488	(0.896)	2369876	10.0000	10.69(A)
* 198 Perylene-d12	264	11.337	11.167	(1.000)	515599	2.00000	
12 Benzaldehyde	77	2.843	2.743	(0.896)	1248764	10.0000	9.82
14 Phenol	94	2.886	2.797	(0.909)	2357925	10.0000	10.64(A)
17 Bis(2-chloroethyl)ether	93	2.961	2.861	(0.933)	1988300	10.0000	10.87(A)
18 2-Chlorophenol	128	3.009	2.914	(0.948)	1879341	10.0000	10.58(A)
24 2-Methylphenol	108	3.373	3.278	(1.062)	1708157	10.0000	10.35(A)
29 3&4-Methylphenol	107	3.507	3.412	(1.104)	2070736	10.0000	10.67(A)
25 bis(2-Chloroisopropyl)ether	45	3.394	3.294	(1.069)	2088005	10.0000	10.13(A)
27 Acetophenone	105	3.507	3.406	(0.821)	2705845	10.0000	10.55(A)
28 N-Nitroso-di-n-propylamine	70	3.512	3.406	(1.106)	1370857	10.0000	10.40(A)
31 Hexachloroethane	117	3.598	3.492	(1.133)	854778	10.0000	10.77(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	3.651	3.546	(0.855)	2077495	10.0000	10.24(A)
36 Isophorone	82	3.860	3.760	(0.904)	3555508	10.0000	10.33(A)
37 2-Nitrophenol	139	3.929	3.829	(0.920)	1047889	10.0000	10.33(A)
40 2,4-Dimethylphenol	122	3.972	3.877	(0.930)	1655504	10.0000	10.12(A)
41 Bis(2-chloroethoxy)methane	93	4.058	3.957	(0.950)	1950752	10.0000	9.94
43 2,4-Dichlorophenol	162	4.148	4.048	(0.971)	1430943	10.0000	10.32(A)
46 Naphthalene	128	4.293	4.187	(1.005)	5899080	10.0000	10.87(A)
48 4-Chloroaniline	127	4.346	4.246	(1.018)	2110959	10.0000	10.32(A)
51 Hexachlorobutadiene	225	4.421	4.316	(1.035)	710235	10.0000	10.29(A)
57 Caprolactam	113	4.667	4.551	(1.093)	534546	10.0000	10.51(A)
58 4-Chloro-3-Methylphenol	107	4.812	4.717	(1.126)	1662166	10.0000	10.33(A)
61 2-Methylnaphthalene	141	4.945	4.840	(1.158)	3111316	10.0000	10.52(A)
63 Hexachlorocyclopentadiene	237	5.106	5.000	(0.860)	812998	10.0000	10.96(A)
66 2,4,6-Trichlorophenol	196	5.218	5.118	(0.878)	899483	10.0000	10.43(A)
68 2,4,5-Trichlorophenol	196	5.250	5.150	(0.884)	1010301	10.0000	10.79(A)
73 1,1'-Biphenyl	154	5.395	5.289	(0.908)	4361459	10.0000	10.71(A)
74 2-Chloronaphthalene	162	5.405	5.300	(0.910)	4108288	10.0000	9.86
77 2-Nitroaniline	65	5.507	5.402	(0.927)	1025556	10.0000	10.27(A)
80 Dimethylphthalate	163	5.700	5.594	(0.959)	3960919	10.0000	10.47(A)
82 2,6-Dinitrotoluene	165	5.748	5.642	(0.968)	900396	10.0000	10.84(A)
83 Acenaphthylene	152	5.801	5.696	(0.977)	5917525	10.0000	10.81(A)
85 3-Nitroaniline	138	5.908	5.803	(0.995)	819353	10.0000	9.40(H)
88 Acenaphthene	154	5.972	5.862	(1.005)	3236226	10.0000	10.30(A)
89 2,4-Dinitrophenol	184	6.004	5.904	(1.011)	562852	10.0000	9.81
90 4-Nitrophenol	109	6.085	6.001	(1.024)	851191	10.0000	11.70(A)
92 Dibenzofuran	168	6.138	6.033	(1.033)	4906558	10.0000	10.87(A)
93 2,4-Dinitrotoluene	165	6.133	6.027	(1.032)	1224186	10.0000	10.91(A)
97 Diethylphthalate	149	6.390	6.284	(1.076)	4386877	10.0000	10.58(A)
98 Fluorene	166	6.470	6.364	(1.089)	3982159	10.0000	10.76(A)
99 4-Chlorophenyl phenyl ether	204	6.480	6.375	(1.091)	1499616	10.0000	10.52(A)
100 4-Nitroaniline	138	6.497	6.391	(1.094)	920075	10.0000	10.12(A)
101 4,6-Dinitro-2-methylphenol	198	6.529	6.423	(0.897)	654170	10.0000	11.62(A)
102 N-Nitrosodiphenylamine	169	6.598	6.493	(0.907)	3283745	10.0000	10.44(A)
112 4-Bromophenyl-phenylether	248	6.951	6.846	(0.955)	749952	10.0000	10.38(A)
113 Hexachlorobenzene	284	7.005	6.899	(0.963)	775957	10.0000	10.32(A)
118 Atrazine	200	7.096	7.006	(0.975)	756774	10.0000	9.90
121 Pentachlorophenol	266	7.149	7.060	(0.982)	495862	10.0000	9.98
128 Phenanthrene	178	7.293	7.199	(1.002)	4871300	10.0000	10.46(A)
130 Anthracene	178	7.331	7.236	(1.007)	5043308	10.0000	10.85(A)
134 Carbazole	167	7.454	7.359	(1.024)	3641476	10.0000	8.79(M)
140 Di-n-butylphthalate	149	7.748	7.653	(1.065)	6773941	10.0000	9.88
149 Fluoranthene	202	8.240	8.135	(1.132)	4345388	10.0000	10.60(A)
155 Pyrene	202	8.433	8.327	(0.880)	4771078	10.0000	10.99(A)
173 Butylbenzylphthalate	149	9.064	8.958	(0.945)	3321896	10.0000	10.94(A)
180 3,3'-Dichlorobenzidine	252	9.577	9.450	(0.999)	721891	10.0000	8.50
181 Benzo(a)Anthracene	228	9.577	9.450	(0.999)	3452493	10.0000	10.65(A)
183 Chrysene	228	9.615	9.483	(1.003)	3403118	10.0000	10.51(A)
184 bis(2-ethylhexyl)phthalate	149	9.700	9.579	(1.012)	4694811	10.0000	10.76(A)
190 Di-n-octylphthalate	149	10.492	10.344	(0.925)	8182355	10.0000	11.38(A)
192 Benzo(b)fluoranthene	252	10.856	10.691	(0.958)	3186759	10.0000	10.91(AM)
195 Benzo(k)fluoranthene	252	10.893	10.723	(0.961)	3508106	10.0000	10.86(AM)
197 Benzo(a)pyrene	252	11.267	11.092	(0.994)	3256695	10.0000	11.10(A)
209 Indeno(1,2,3-cd)pyrene	276	12.765	12.563	(1.126)	2741011	10.0000	11.44(AM)
210 Dibenzo(a,h)anthracene	278	12.808	12.606	(1.130)	2950896	10.0000	11.65(A)

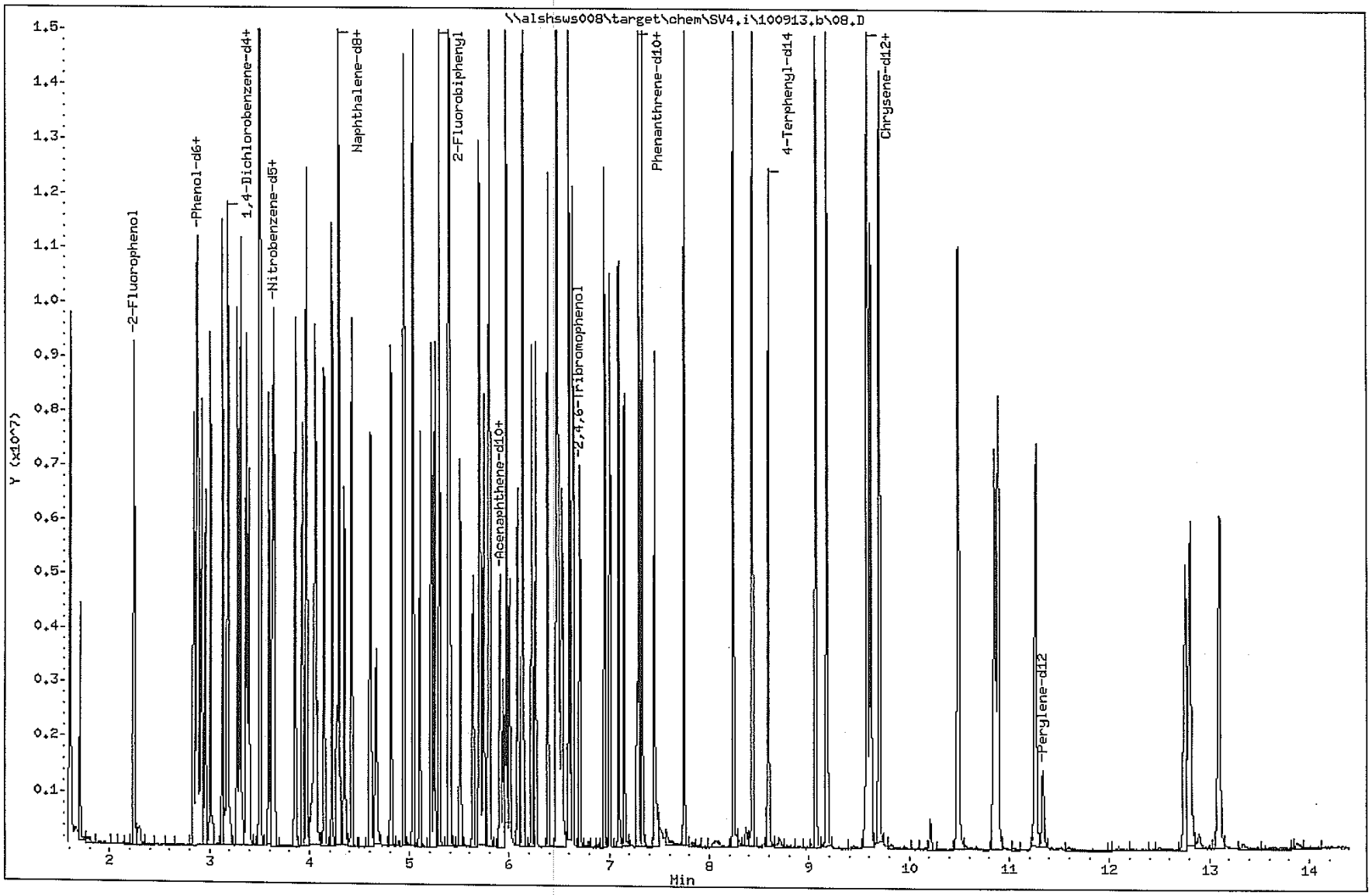
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	13.107	12.895	(1.156)	2999236	10.0000	10.46(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alshsws008\target\chem\SV4.i\100913.b\08.D
Date : 13-SEP-2010 13:05
Client ID: SLSTD-10.0
Sample Info: SLSTD-10.0;SLSTD-10.0
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV4.i
Operator: lg
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100913.b\12.D
Lab Smp Id: LOT2ICV-2.5 Client Smp ID: LOTICV-2.5
Inj Date : 13-SEP-2010 14:34 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : LOT2ICV-2.5;LOTICV-2.5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100913.b\R8270DLL.m
Meth Date : 22-Sep-2010 15:55 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 12 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.173	3.075	(1.000)	269647	2.00000	
$ 9 2-Fluorophenol	112	2.242	2.160	(0.707)	477584	2.44459	2.44
$ 13 Phenol-d6	99	2.868	2.786	(0.904)	579138	2.27933	2.27
* 45 Naphthalene-d8	136	4.270	4.171	(1.000)	1008026	2.00000	
$ 33 Nitrobenzene-d5	82	3.628	3.530	(0.850)	523826	2.46065	2.46
* 86 Acenaphthene-d10	164	5.938	5.835	(1.000)	540913	2.00000	
$ 69 2-Fluorobiphenyl	172	5.296	5.193	(0.892)	857323	2.29543	2.29
* 126 Phenanthrene-d10	188	7.270	7.183	(1.000)	812366	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.703	6.600	(1.129)	94233	2.15602	2.15
* 182 Chrysene-d12	240	9.581	9.456	(1.000)	615098	2.00000	
$ 158 4-Terphenyl-d14	244	8.591	8.488	(0.897)	550948	2.26848	2.26
* 198 Perylene-d12	264	11.335	11.167	(1.000)	540700	2.00000	
12 Benzaldehyde	77	2.841	2.743	(0.896)	363926	2.70437	2.70
14 Phenol	94	2.879	2.797	(0.907)	595071	2.53704	2.53
17 Bis(2-chloroethyl)ether	93	2.959	2.861	(0.933)	506704	2.61763	2.61
18 2-Chlorophenol	128	3.007	2.914	(0.948)	489394	2.60340	2.60
24 2-Methylphenol	108	3.366	3.278	(1.061)	454205	2.59976	2.59
29 3&4-Methylphenol	107	3.499	3.412	(1.103)	506365	2.46487	2.46
25 bis(2-Chloroisopropyl)ether	45	3.392	3.294	(1.069)	577420	2.64782	2.64
27 Acetophenone	105	3.499	3.406	(0.820)	649572	2.45845	2.45
28 N-Nitroso-di-n-propylamine	70	3.505	3.406	(1.104)	342376	2.45340	2.45
31 Hexachloroethane	117	3.596	3.492	(1.133)	208933	2.48734	2.48

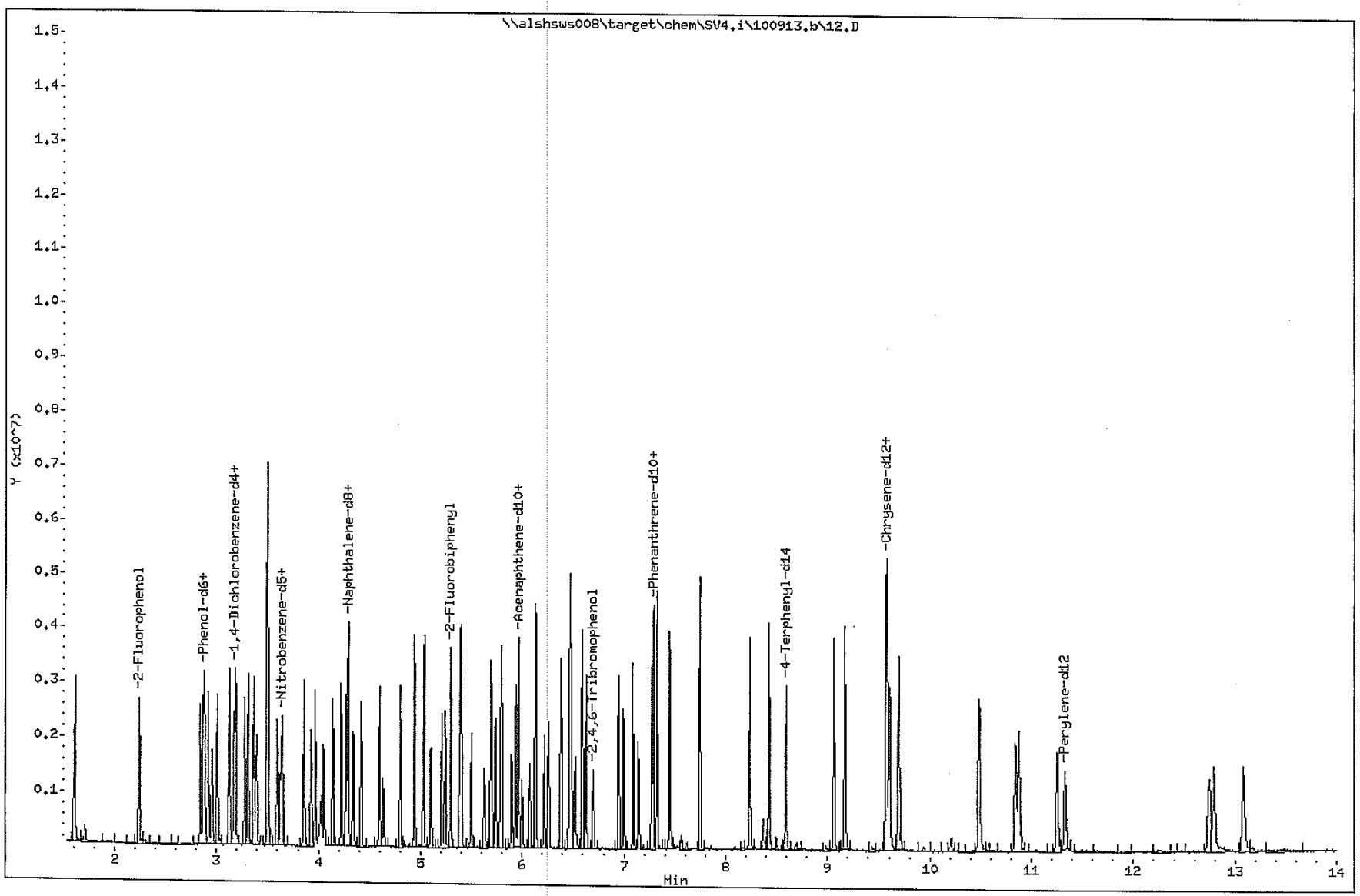
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
35 Nitrobenzene	77	3.644	3.546	(0.853)	534245	2.55715	2.55
36 Isophorone	82	3.858	3.760	(0.904)	947370	2.67393	2.67
37 2-Nitrophenol	139	3.927	3.829	(0.920)	259650	2.48665	2.48
40 2,4-Dimethylphenol	122	3.970	3.877	(0.930)	425595	2.52541	2.52
41 Bis(2-chloroethoxy)methane	93	4.056	3.957	(0.950)	481834	2.38368	2.38
43 2,4-Dichlorophenol	162	4.141	4.048	(0.970)	363759	2.54846	2.54
46 Naphthalene	128	4.291	4.187	(1.005)	1466504	2.62416	2.62
48 4-Chloroaniline	127	4.339	4.246	(1.016)	525303	2.49375	2.49
51 Hexachlorobutadiene	225	4.419	4.316	(1.035)	190567	2.68215	2.68
57 Caprolactam	113	4.633	4.551	(1.085)	128341	2.45030	2.45
58 4-Chloro-3-Methylphenol	107	4.804	4.717	(1.125)	417871	2.52080	2.52
61 2-Methylnaphthalene	141	4.938	4.840	(1.157)	727841	2.39036	2.39
63 Hexachlorocyclopentadiene	237	5.104	5.000	(0.860)	194533	2.56906	2.56
66 2,4,6-Trichlorophenol	196	5.211	5.118	(0.878)	224121	2.54480	2.54
68 2,4,5-Trichlorophenol	196	5.243	5.150	(0.883)	234699	2.45534	2.45
73 1,1'-Biphenyl	154	5.387	5.289	(0.907)	984323	2.36658	2.36
74 2-Chloronaphthalene	162	5.398	5.300	(0.909)	879424	2.11856	2.11
77 2-Nitroaniline	65	5.500	5.402	(0.926)	268951	2.63868	2.63
80 Dimethylphthalate	163	5.692	5.594	(0.959)	1000484	2.58961	2.58
82 2,6-Dinitrotoluene	165	5.740	5.642	(0.967)	238576	2.81208	2.81
83 Acenaphthylene	152	5.799	5.696	(0.977)	1402268	2.50984	2.50
85 3-Nitroaniline	138	5.901	5.803	(0.994)	215530	2.42137	2.42
88 Acenaphthene	154	5.965	5.862	(1.004)	775109	2.41559	2.41
89 2,4-Dinitrophenol	184	5.997	5.904	(1.010)	113643	2.41413	2.41
90 4-Nitrophenol	109	6.077	6.001	(1.023)	182957	2.46257	2.46
92 Dibenzofuran	168	6.136	6.033	(1.033)	1128676	2.44985	2.44
93 2,4-Dinitrotoluene	165	6.126	6.027	(1.032)	293647	2.56243	2.56
97 Diethylphthalate	149	6.382	6.284	(1.075)	1079945	2.55141	2.55
98 Fluorene	166	6.468	6.364	(1.089)	952566	2.52107	2.52
99 4-Chlorophenyl phenyl ether	204	6.479	6.375	(1.091)	373856	2.56868	2.56
100 4-Nitroaniline	138	6.484	6.391	(1.092)	258262	2.78164	2.78
101 4,6-Dinitro-2-methylphenol	198	6.521	6.423	(0.897)	155711	2.69031	2.69
102 N-Nitrosodiphenylamine	169	6.591	6.493	(0.907)	792410	2.44920	2.44
112 4-Bromophenyl-phenylether	248	6.949	6.846	(0.956)	191410	2.57672	2.57
113 Hexachlorobenzene	284	7.003	6.899	(0.963)	194792	2.51872	2.51
118 Atrazine	200	7.088	7.006	(0.975)	174783	2.22298	2.22
121 Pentachlorophenol	266	7.142	7.060	(0.982)	81150	2.02708	2.02
128 Phenanthrene	178	7.292	7.199	(1.003)	1170458	2.44375	2.44
130 Anthracene	178	7.324	7.236	(1.007)	1164481	2.43564	2.43
134 Carbazole	167	7.447	7.359	(1.024)	1115387	2.61898	2.61
140 Di-n-butylphthalate	149	7.746	7.653	(1.065)	1821224	2.58424	2.58
149 Fluoranthene	202	8.238	8.135	(1.133)	1107014	2.62652	2.62
155 Pyrene	202	8.431	8.327	(0.880)	1187568	2.49804	2.49
173 Butylbenzylphthalate	149	9.062	8.958	(0.946)	832286	2.50203	2.50
180 3,3'-Dichlorobenzidine	252	9.570	9.450	(0.999)	245049	2.63346	2.63
181 Benzo(a)Anthracene	228	9.570	9.450	(0.999)	874978	2.46328	2.46
183 Chrysene	228	9.613	9.483	(1.003)	850953	2.39993	2.39
184 bis(2-ethylhexyl)phthalate	149	9.698	9.579	(1.012)	1196109	2.50282	2.50
190 Di-n-octylphthalate	149	10.485	10.344	(0.925)	1945628	2.58255	2.58
192 Benzo(b)fluoranthene	252	10.848	10.691	(0.957)	844603	2.75972	2.75
195 Benzo(k)fluoranthene	252	10.880	10.723	(0.960)	841021	2.48390	2.48
197 Benzo(a)pyrene	252	11.255	11.092	(0.993)	753576	2.44991	2.44
209 Indeno(1,2,3-cd)pyrene	276	12.752	12.563	(1.125)	685266	2.72873	2.72
210 Dibenzo(a,h)anthracene	278	12.801	12.606	(1.129)	689466	2.59732	2.59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
212 Benzo(g,h,i)perylene	276	13.089	12.895	(1.155)	793204	2.63871	2.63

Data File: \\alshsws008\target\chem\SV4.i\100913.b\12.D
Date : 13-SEP-2010 14:34
Client ID: LOTICV-2.5
Sample Info: LOT2ICV-2.5;LOTICV-2.5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV4.i

Operator: lg
Column diameter: 0.28



ALS Laboratory Group — **GC/MS SV #4 Instrument Run Log** — **Logbook # 23114**

Sequence # 100917A	Method: ~~8270D~~ / E625 / CLP / Others	SOP #: MSSV-001	MSSV-003 LL
RPM: ✓	IS ID: 22M17-31-08	CAL STD ID: 22417-31-01	DFTPP ID: 22717-31-07

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
1	DFTPP	50ng					9/17/10	1859	✓	[illegible]	
2	SLSTD-2.5	2.5ppm						1912	NU		
3	SLSTD-2.5	2.5ppm						1939	✓		
4	1009537	SBLKSL-100917	Soil	30g	1mL	1		2001	XI		
5	↓	SLCSSL-100917	↓	↓	↓	↓		2020	✓		
6		SLCSDSL-100917						2040	✓		
7		SBLKSL-100917						2059	XI		
8		SLCSPSL-100917						2119			
9	↓	SLCSDSL-100917						2138			
10	1009505	SBLKSL-100917						21:57	~~NO~~ ✓		
11	↓	SLCSSL-100917						22:17	✓		
12	↓	SLCSDSL-100917		↓	↓			22:36	✓		
13	1009537	01D		15.02g	0.5mL			2256	✓		
14	↓	03D		15.05g	↓			2315	XI		
15		06D		15.01g				2335	✓		
16		08D		15.00g			✓	2355	XI		
17		10D		15.03g	↓		9/18/10	00:14	✓		
18	↓	12D		30.61g	1.0mL			0033	✓		
19	1009513	01C		15.01g	0.5mL			0053	✓		
20	↓	03C		15.04g	↓			0112	✓		
21		06C		30.02g	1.0mL			0132	✓		
22		09C		30.01g	↓			0151	✓		
23	↓	12C	✓	15.02g	0.5mL	↓		0211	✓		
24	1009477	01E	water	1000mL	1.0mL	100		02:30	✓		
25	↓	02E	↓	↓	↓	100	↓	02:50	✓	↓	

IS1/1,4-dichlorobenzene-$_{d4}$: 2606504	IS2/naphthalene-$_{d8}$: 1106957	IS3/acenaphthene-$_{d10}$: 1006087
IS4/phenanthrene-$_{d10}$: 955023	IS5/chrysene-$_{d12}$: 738927	IS6/perylene-$_{d12}$: 673734
DFTPP resp: 950233	DDD resp: 0	DDE resp: 0	PCP Resp: 5969934	PCP Tailing: 0.57 (< 2.0 %)
DDT resp: 1054687	% Breakdown: 0	(< 20 %)	Benz. Resp: 11757028	Benz. Tailing: 0.81 (< 2.0 %)

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ALS Laboratory Group — **GC/MS SV #4 Instrument Run Log** — **Logbook # 23114**

Sequence # 100917A cont. | Method: 8270D / E625 / CLP / Others | SOP #: MSSV-001 / ~~MSSV-003 LL~~

RPM: ✓ | IS ID: 22717-31-08 | CAL STD ID: 22717-31-01 | DFTPP ID: 22717-30-07

File #		WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
26	1	1009477	03C	water	1000 ml	1 mL	500	9/18/10	03:09	✓		
27	2	↓	03E	↓	↓	↓	1		03:29	XD		
28	3	↓	05C	↓	↓	↓	1		03:48	XD		
29	4	1009505	10C	30.1	30.08g	↓	↓	↓	04:08	XI	↓	
30	5	↓	24C	↓	30.08g	↓	↓	↓	04:27	XIXD	↓	
31	6	↓	12C	↓	30.09g	↓	↓	↓	04:47	✓	↓	
32	7	↓	14C	↓	30.00g	↓	↓	↓	05:06	~~XE~~ V	↓	
33	8	↓	20C	↓	30.04g	↓	↓	↓	05:26	XI	↓	
34	9	↓	21C	↓	30.03g	↓	↓	↓	05:46	XI	↓	
35	10	↓	23C	↓	30.05g	↓	5	↓	6:05	XD	↓	
36	11	↓	26C	↓	30.02g	↓	5	↓	6:24	XI	↓	
37	12	↓	31C	↓	30.05g	↓	5	↓	6:44	XI	↓	
~~13~~												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												

IS1/1,4-dichlorobenzene-$_{d4}$: | IS2/naphthalene-$_{d8}$: | IS3/acenaphthene-$_{d10}$:

IS4/phenanthrene-$_{d10}$: | IS5/chrysene-$_{d12}$: | IS6/perylene-$_{d12}$:

DFTPP resp: | DDD resp: | DDE resp: | PCP Resp: | PCP Tailing : (< 2.0 %)

DDT resp: | % Breakdown: (< 20 %) | Benz. Resp: | ~~Benz. Tailing:~~ (< 2.0 %)

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FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV4 Calibration Date: 09/17/10 Time: 1939

Lab File ID: 03 Init. Calib. Date(s): 09/13/10 09/13/10

Init. Calib. Times: 1021 1305

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	SAMPLE AMOUNT	CAL2.5 AMOUNT	CURVE	%D	MAX %d
Phenol	2.43	2.50	AVRG	2.8	20.0
Bis(2-chloroethyl)ether	2.68	2.50	AVRG	7.2	20.0
2-Chlorophenol	2.65	2.50	AVRG	6.0	20.0
2-Methylphenol	2.67	2.50	AVRG	6.8	20.0
bis(2-Chloroisopropyl)ether	2.66	2.50	AVRG	6.4	20.0
3&4-Methylphenol	2.56	2.50	AVRG	2.4	20.0
N-Nitroso-di-n-propylamine	2.57	2.50	AVRG	2.8	20.0
Hexachloroethane	2.70	2.50	AVRG	8.0	20.0
Nitrobenzene	2.21	2.50	AVRG	11.6	20.0
Isophorone	2.41	2.50	AVRG	3.6	20.0
2-Nitrophenol	2.19	2.50	AVRG	12.4	20.0
2,4-Dimethylphenol	2.29	2.50	AVRG	8.4	20.0
Bis(2-chloroethoxy)methane	2.29	2.50	AVRG	8.4	20.0
2,4-Dichlorophenol	2.26	2.50	AVRG	9.6	20.0
Naphthalene	2.42	2.50	AVRG	3.2	20.0
4-Chloroaniline	2.29	2.50	AVRG	8.4	20.0
Hexachlorobutadiene	2.46	2.50	AVRG	1.6	20.0
4-Chloro-3-Methylphenol	2.32	2.50	AVRG	7.2	20.0
2-Methylnaphthalene	2.38	2.50	AVRG	4.8	20.0
Hexachlorocyclopentadiene	2.06	2.50	AVRG	17.6	20.0
2,4,6-Trichlorophenol	2.47	2.50	AVRG	1.2	20.0
2,4,5-Trichlorophenol	2.03	2.50	AVRG	18.8	20.0
2-Chloronaphthalene	2.18	2.50	AVRG	12.8	20.0
2-Nitroaniline	2.49	2.50	AVRG	0.4	20.0
Dimethylphthalate	2.34	2.50	AVRG	6.4	20.0
Acenaphthylene	2.38	2.50	AVRG	4.8	20.0
2,6-Dinitrotoluene	2.41	2.50	AVRG	3.6	20.0
3-Nitroaniline	2.27	2.50	AVRG	9.2	20.0
Acenaphthene	2.33	2.50	AVRG	6.8	20.0
2,4-Dinitrophenol	2.02	2.50	2ORDR	19.2	20.0
Dibenzofuran	2.37	2.50	AVRG	5.2	20.0
4-Nitrophenol	2.55	2.50	AVRG	2.0	20.0
2,4-Dinitrotoluene	2.42	2.50	AVRG	3.2	20.0
Diethylphthalate	2.81	2.50	AVRG	12.4	20.0
4-Chlorophenyl phenyl ether	2.29	2.50	AVRG	8.4	20.0
Fluorene	2.34	2.50	AVRG	6.4	20.0
4-Nitroaniline	2.44	2.50	AVRG	2.4	20.0

FORM VII SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV4 Calibration Date: 09/17/10 Time: 1939

Lab File ID: 03 Init. Calib. Date(s): 09/13/10 09/13/10

Init. Calib. Times: 1021 1305

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	SAMPLE AMOUNT	CAL2.5 AMOUNT	CURVE	%D	MAX %d
4,6-Dinitro-2-methylphenol	2.03	2.50	AVRG	18.8	20.0
N-Nitrosodiphenylamine	2.12	2.50	AVRG	15.2	20.0
4-Bromophenyl-phenylether	2.19	2.50	AVRG	12.4	20.0
Hexachlorobenzene	2.18	2.50	AVRG	12.8	20.0
Pentachlorophenol	2.04	2.50	2ORDR	18.4	20.0
Phenanthrene	2.27	2.50	AVRG	9.2	20.0
Anthracene	2.25	2.50	AVRG	10.0	20.0
Carbazole	2.14	2.50	AVRG	14.4	20.0
Di-n-butylphthalate	2.37	2.50	AVRG	5.2	20.0
Fluoranthene	2.25	2.50	AVRG	10.0	20.0
Pyrene	2.16	2.50	AVRG	13.6	20.0
Butylbenzylphthalate	2.33	2.50	AVRG	6.8	20.0
Benzo(a)Anthracene	2.20	2.50	AVRG	12.0	20.0
3,3'-Dichlorobenzidine	2.20	2.50	AVRG	12.0	20.0
bis(2-ethylhexyl)phthalate	2.33	2.50	AVRG	6.8	20.0
Chrysene	2.20	2.50	AVRG	12.0	20.0
Di-n-octylphthalate	2.43	2.50	AVRG	2.8	20.0
Benzo(b)fluoranthene	2.21	2.50	AVRG	11.6	20.0
Benzo(k)fluoranthene	2.33	2.50	AVRG	6.8	20.0
Benzo(a)pyrene	2.26	2.50	AVRG	9.6	20.0
Indeno(1,2,3-cd)pyrene	2.45	2.50	AVRG	2.0	20.0
Dibenzo(a,h)anthracene	2.18	2.50	AVRG	12.8	20.0
Benzo(g,h,i)perylene	2.23	2.50	AVRG	10.8	20.0
Acetophenone	2.35	2.50	AVRG	6.0	20.0
Caprolactam	2.58	2.50	AVRG	3.2	20.0
1,1'-Biphenyl	2.36	2.50	AVRG	5.6	20.0
Benzaldehyde	2.56	2.50	AVRG	2.4	20.0
Atrazine	2.30	2.50	AVRG	8.0	20.0
Phenol-d6	2.49	2.50	AVRG	0.4	20.0
2-Fluorophenol	2.40	2.50	AVRG	4.0	20.0
Nitrobenzene-d5	2.43	2.50	AVRG	2.8	20.0
2-Fluorobiphenyl	2.29	2.50	AVRG	8.4	20.0
2,4,6-Tribromophenol	2.21	2.50	AVRG	11.6	20.0
4-Terphenyl-d14	2.17	2.50	AVRG	13.2	20.0

FORM VII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 03 Date Analyzed: 09/17/10

Instrument ID: SV4 Time Analyzed: 1939

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	266504		2.96		1106957		4.05		606687		5.71	
	UPPER LIMIT	533008		3.46		2213914		4.55		1213374		6.21	
	LOWER LIMIT	133252		2.46		553479		3.55		303344		5.21	
	CLIENT SAMPLE NO.												
01	SLCSS2-10091	200219		2.96		778731		4.05		415735		5.71	
02	SLCSDS2-1009	180190		2.96		647703		4.05		340643		5.71	
03	1009543-01C	223324		2.96		883343		4.05		500687		5.71	
04	1009543-03C	181595		2.96		738498		4.05		376446		5.71	
05	1009543-06C	231792		2.96		918850		4.05		483621		5.71	
06	1009543-09C	238844		2.96		922791		4.05		458239		5.71	
07	1009543-12C	184306		2.96		756177		4.05		430525		5.71	
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 03 Date Analyzed: 09/17/10

Instrument ID: SV4 Time Analyzed: 1939

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	955023	7.03	738927	9.33	673734	11.00
	UPPER LIMIT	1910046	7.53	1477854	9.83	1347468	11.50
	LOWER LIMIT	477512	6.53	369464	8.83	336867	10.50
	CLIENT SAMPLE NO.						
01	SLCSS2-10091	616620	7.04	461820	9.32	440414	10.98
02	SLCSDS2-1009	491599	7.04	383811	9.33	355706	11.00
03	1009543-01C	766621	7.03	553794	9.33	532725	11.00
04	1009543-03C	606258	7.04	425358	9.33	440972	11.00
05	1009543-06C	733555	7.04	523380	9.33	522686	11.00
06	1009543-09C	765946	7.04	562159	9.33	537012	11.00
07	1009543-12C	654069	7.04	485339	9.32	438775	10.99
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 internal standard area values with an asterisk.
* Values outside of QC limits.

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\01.D

Page 1

Date : 17-SEP-2010 18:59

Client ID: DFTPP

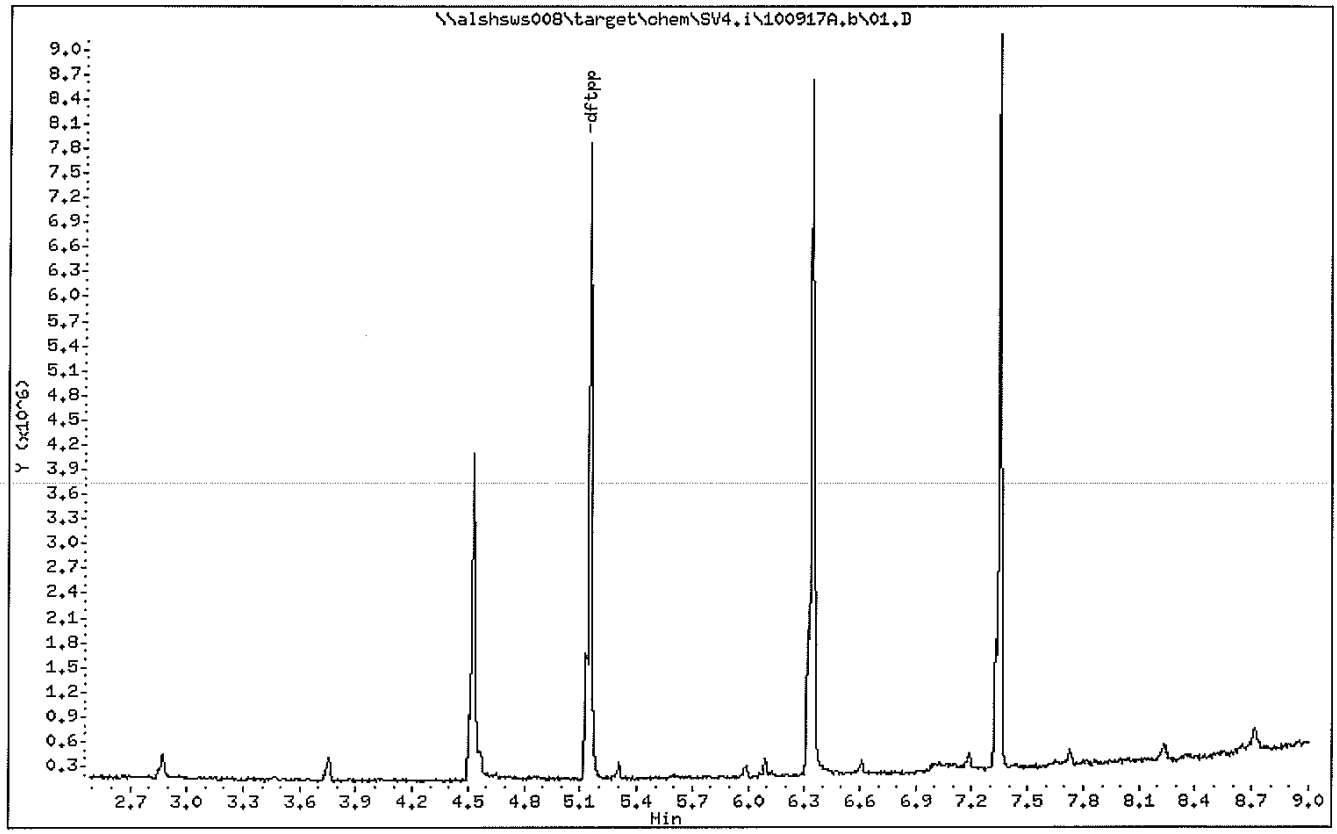
Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\alshsws008\target\chem\SV4.i\100917A.b\01.D

Date : 17-SEP-2010 18:59

Client ID: DFTPP

Instrument: SV4.i

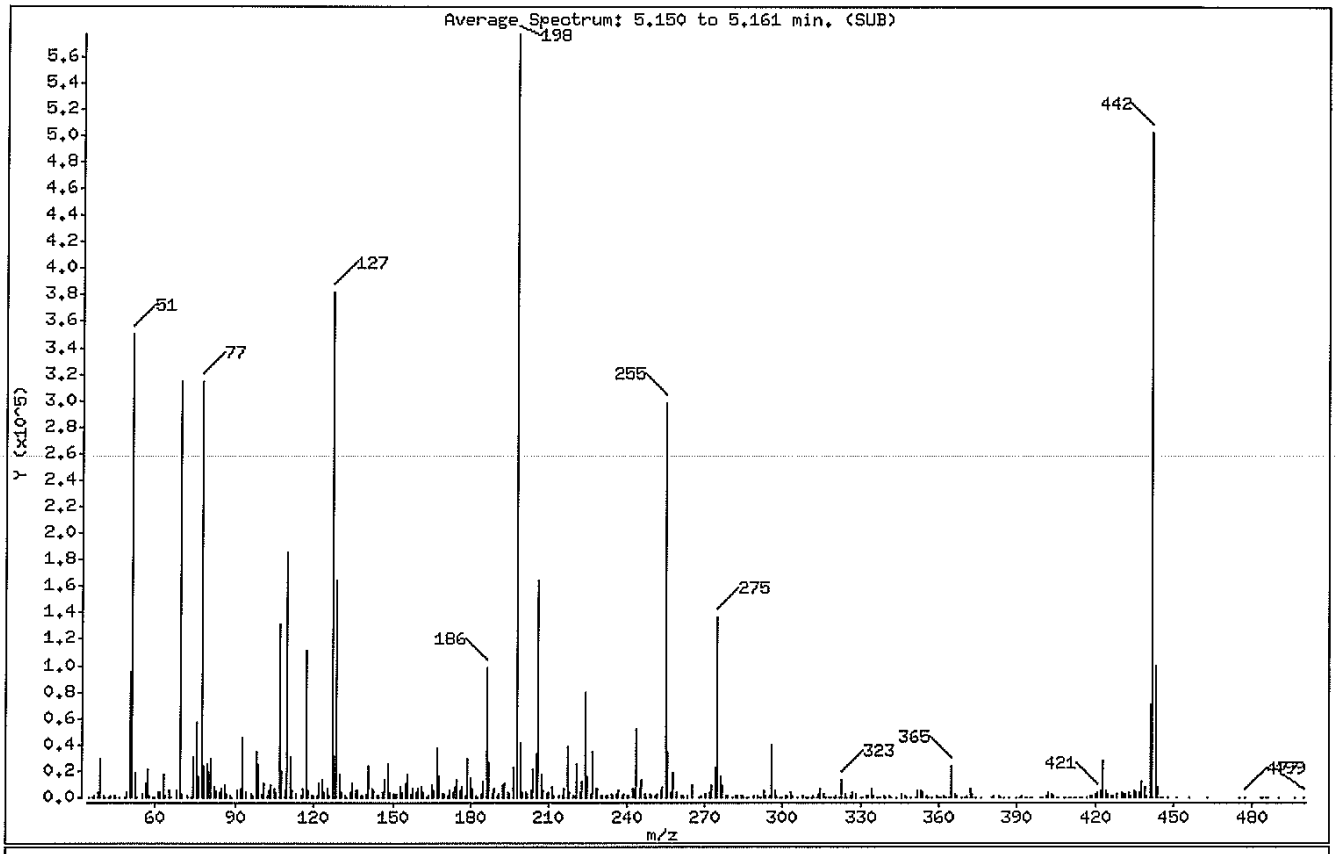
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	60.77
68	Less than 2.00% of mass 69	0.95 (1.74)
69	Mass 69 relative abundance	54.52
70	Less than 2.00% of mass 69	0.37 (0.67)
127	10.00 - 80.00% of mass 198	66.25
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.10
275	10.00 - 60.00% of mass 198	23.70
365	Greater than 1.00% of mass 198	4.07
441	0.01 - 24.00% of mass 442	12.17 (13.97)
442	Greater than 50.00% of mass 198	87.14
443	15.00 - 24.00% of mass 442	17.31 (19.87)

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\01.D

Date : 17-SEP-2010 18:59

Client ID: DFTPP

Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 5.150 to 5.161 min. (SUB)
Location of Maximum: 198.00
Number of points: 389

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	635	140.00	2221	240.00	1115	349.00	321
36.00	240	141.00	23664	241.00	1926	351.00	229
37.00	1927	142.00	6642	242.00	6859	352.00	5418
38.00	4479	143.00	5607	243.00	6330	353.00	4730
39.00	29400	144.00	1745	244.00	51112	354.00	4168
40.00	1593	145.00	935	245.00	6006	355.00	738
41.00	79	146.00	3357	246.00	13082	356.00	149
42.00	319	147.00	12844	247.00	2646	357.00	182
43.00	1572	148.00	25496	248.00	588	359.00	797
44.00	839	149.00	3964	249.00	2308	360.00	86
45.00	1394	150.00	2010	250.00	1971	361.00	137
46.00	383	151.00	2430	251.00	1289	362.00	694
48.00	612	152.00	2075	252.00	2249	363.00	398
49.00	3571	153.00	7775	253.00	5057	364.00	452
50.00	96128	154.00	3922	254.00	7481	365.00	23456
51.00	350464	155.00	10712	255.00	298944	366.00	2803
52.00	18232	156.00	16592	256.00	34624	367.00	764
53.00	227	157.00	3000	257.00	3895	369.00	102
55.00	2755	158.00	6571	258.00	19016	370.00	607
56.00	10824	159.00	3628	259.00	3681	371.00	1121
57.00	21544	160.00	6523	261.00	795	372.00	6194
58.00	1170	161.00	7557	262.00	749	373.00	2480
59.00	433	162.00	4118	263.00	852	374.00	141
60.00	264	163.00	294	265.00	9059	376.00	163
61.00	3964	164.00	826	268.00	56	380.00	105
62.00	3536	165.00	9369	269.00	1074	381.00	905
63.00	17304	166.00	4671	270.00	2264	383.00	1793
64.00	828	167.00	36968	271.00	2875	384.00	634
65.00	5184	168.00	15840	272.00	4192	385.00	93
66.00	513	169.00	2926	273.00	9613	387.00	250
68.00	5484	170.00	3228	274.00	22712	390.00	527
69.00	314432	171.00	1669	275.00	136640	391.00	606
70.00	2122	172.00	5118	276.00	15908	392.00	725
72.00	903	173.00	4569	277.00	8830	393.00	307
73.00	167	174.00	8080	278.00	1933	394.00	166

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\01.D

Date : 17-SEP-2010 18:59

Client ID: DFTPP

Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 5.150 to 5.161 min. (SUB)
Location of Maximum: 198.00
Number of points: 389

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	31064	175.00	13242	279.00	1301	395.00	599
75.00	56600	176.00	5099	281.00	569	396.00	279
76.00	15954	177.00	8306	282.00	901	399.00	174
77.00	313920	178.00	1649	283.00	767	400.00	85
78.00	24400	179.00	29408	284.00	1559	401.00	720
79.00	25264	180.00	14989	285.00	1441	402.00	3446
80.00	19848	181.00	6904	286.00	470	403.00	2844
81.00	28600	182.00	1927	287.00	394	404.00	1943
82.00	7659	183.00	161	289.00	1059	405.00	373
83.00	5787	184.00	2275	290.00	1243	406.00	92
84.00	4076	185.00	12202	291.00	296	408.00	576
85.00	6539	186.00	98144	292.00	529	409.00	466
86.00	9146	187.00	26056	293.00	5014	410.00	575
87.00	2336	188.00	2665	294.00	1414	411.00	79
88.00	1788	189.00	6676	295.00	1441	412.00	178
89.00	559	190.00	1507	296.00	40024	413.00	178
91.00	5188	191.00	3281	297.00	5135	414.00	212
92.00	7285	192.00	8832	298.00	1253	415.00	456
93.00	45216	193.00	10765	299.00	211	417.00	208
94.00	3536	194.00	4397	300.00	310	418.00	925
96.00	2047	195.00	3026	301.00	1199	419.00	952
97.00	1850	196.00	22616	302.00	775	420.00	2173
98.00	34288	198.00	576768	303.00	3880	421.00	4062
99.00	25760	199.00	40960	304.00	1012	422.00	4827
100.00	3018	200.00	4052	306.00	152	423.00	28360
101.00	11055	201.00	3798	308.00	898	424.00	5208
102.00	1224	202.00	2896	309.00	282	425.00	2436
103.00	5211	203.00	4796	310.00	194	426.00	1131
104.00	9115	204.00	21240	311.00	413	427.00	762
105.00	7153	205.00	33672	312.00	696	428.00	2548
106.00	4281	206.00	164032	313.00	126	430.00	3385
107.00	130896	207.00	16968	314.00	2568	431.00	2463
108.00	20464	208.00	5928	315.00	7111	432.00	2749
109.00	5027	209.00	2008	316.00	2506	433.00	4558
110.00	185280	210.00	3810	317.00	340	434.00	1933

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\01.D

Date : 17-SEP-2010 18:59

Client ID: DFTPP

Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 5.150 to 5.161 min. (SUB)
Location of Maximum: 198.00
Number of points: 389

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	30088	211.00	7420	318.00	336	435.00	4938
112.00	4856	212.00	1170	319.00	560	436.00	3975
113.00	2507	214.00	830	320.00	100	437.00	3961
115.00	1178	215.00	1702	321.00	1724	438.00	12215
116.00	7203	216.00	6025	322.00	256	439.00	8035
117.00	111200	217.00	38128	323.00	13909	440.00	1772
118.00	5951	218.00	4408	324.00	2931	441.00	70200
119.00	1126	219.00	1383	325.00	333	442.00	502592
120.00	663	220.00	1751	326.00	811	443.00	99856
121.00	1105	221.00	24696	327.00	3807	444.00	8415
122.00	10020	222.00	3997	328.00	2047	445.00	581
123.00	12708	223.00	12475	330.00	51	446.00	378
124.00	4072	224.00	79248	331.00	268	448.00	368
125.00	6270	225.00	16316	332.00	871	451.00	58
126.00	1367	226.00	2951	333.00	1330	456.00	121
127.00	382080	227.00	34360	334.00	7141	463.00	50
128.00	32072	228.00	7109	335.00	1904	475.00	162
129.00	164224	229.00	7057	336.00	264	477.00	292
130.00	16600	230.00	874	337.00	132	483.00	242
131.00	3594	231.00	1327	338.00	71	484.00	141
132.00	1338	232.00	858	339.00	928	485.00	240
133.00	415	233.00	695	340.00	537	486.00	113
134.00	4511	234.00	2509	341.00	1466	490.00	248
135.00	10550	235.00	679	342.00	159	496.00	291
136.00	4893	236.00	2670	344.00	214	499.00	87
137.00	5424	237.00	4682	346.00	2976		
138.00	1486	238.00	1176	347.00	798		
139.00	1810	239.00	2923	348.00	105		

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GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100917A.b\03.D
Lab Smp Id: SLSTD-2.5 Client Smp ID: SLSTD-2.6
Inj Date : 17-SEP-2010 19:39 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLSTD-2.5;SLSTD-2.6
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100917A.b\R8270DLL.m
Meth Date : 23-Sep-2010 13:51 aneir Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.959	2.959	(1.000)	266504	2.00000	
$ 9 2-Fluorophenol	112	2.055	2.055	(0.695)	463799	2.50000	2.40
$ 13 Phenol-d6	99	2.681	2.681	(0.906)	625365	2.50000	2.49
* 45 Naphthalene-d8	136	4.050	4.050	(1.000)	1106957	2.00000	
$ 33 Nitrobenzene-d5	82	3.419	3.419	(0.844)	569857	2.50000	2.43
* 86 Acenaphthene-d10	164	5.708	5.708	(1.000)	606687	2.00000	
$ 69 2-Fluorobiphenyl	172	5.077	5.077	(0.889)	962087	2.50000	2.29
* 126 Phenanthrene-d10	188	7.034	7.034	(1.000)	955023	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.473	6.473	(1.134)	108814	2.50000	2.21
* 182 Chrysene-d12	240	9.334	9.334	(1.000)	738927	2.00000	
$ 158 4-Terphenyl-d14	244	8.372	8.372	(0.897)	635805	2.50000	2.17
* 198 Perylene-d12	264	11.003	11.003	(1.000)	673734	2.00000	
12 Benzaldehyde	77	2.638	2.638	(0.892)	341721	2.50000	2.56
14 Phenol	94	2.691	2.691	(0.910)	564245	2.50000	2.43
17 Bis(2-chloroethyl)ether	93	2.756	2.756	(0.931)	514201	2.50000	2.68
18 2-Chlorophenol	128	2.804	2.804	(0.948)	493063	2.50000	2.65
24 2-Methylphenol	108	3.173	3.173	(1.072)	461619	2.50000	2.67
29 3&4-Methylphenol	107	3.306	3.306	(1.117)	521449	2.50000	2.56
25 bis(2-Chloroisopropyl)ether	45	3.189	3.189	(1.078)	573570	2.50000	2.66
27 Acetophenone	105	3.290	3.290	(0.812)	684042	2.50000	2.35
28 N-Nitroso-di-n-propylamine	70	3.296	3.296	(1.114)	355376	2.50000	2.57
31 Hexachloroethane	117	3.376	3.376	(1.141)	224206	2.50000	2.70

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
35 Nitrobenzene	77	3.435	3.435	(0.848)	508066	2.50000	2.21
36 Isophorone	82	3.643	3.643	(0.900)	940098	2.50000	2.41
37 2-Nitrophenol	139	3.713	3.713	(0.917)	252224	2.50000	2.19
40 2,4-Dimethylphenol	122	3.766	3.766	(0.930)	424255	2.50000	2.29
41 Bis(2-chloroethoxy)methane	93	3.841	3.841	(0.948)	508623	2.50000	2.29
43 2,4-Dichlorophenol	162	3.932	3.932	(0.971)	354247	2.50000	2.26
46 Naphthalene	128	4.071	4.071	(1.005)	1488796	2.50000	2.42
48 4-Chloroaniline	127	4.130	4.130	(1.020)	529908	2.50000	2.29
51 Hexachlorobutadiene	225	4.200	4.200	(1.037)	192525	2.50000	2.46
57 Caprolactam	113	4.430	4.430	(1.094)	148763	2.50000	2.58
58 4-Chloro-3-Methylphenol	107	4.606	4.606	(1.137)	423175	2.50000	2.32
61 2-Methylnaphthalene	141	4.718	4.718	(1.165)	797068	2.50000	2.38
63 Hexachlorocyclopentadiene	237	4.879	4.879	(0.855)	175348	2.50000	2.06
66 2,4,6-Trichlorophenol	196	4.997	4.997	(0.875)	244204	2.50000	2.47
68 2,4,5-Trichlorophenol	196	5.034	5.034	(0.882)	218079	2.50000	2.03
73 1,1'-Biphenyl	154	5.168	5.168	(0.905)	1102980	2.50000	2.36
74 2-Chloronaphthalene	162	5.173	5.173	(0.906)	1063424	2.50000	2.18
77 2-Nitroaniline	65	5.285	5.285	(0.926)	285622	2.50000	2.49
80 Dimethylphthalate	163	5.478	5.478	(0.960)	1017254	2.50000	2.34
82 2,6-Dinitrotoluene	165	5.521	5.521	(0.967)	229925	2.50000	2.41
83 Acenaphthylene	152	5.569	5.569	(0.976)	1493167	2.50000	2.38
85 3-Nitroaniline	138	5.681	5.681	(0.995)	227047	2.50000	2.27
88 Acenaphthene	154	5.740	5.740	(1.006)	840246	2.50000	2.33
89 2,4-Dinitrophenol	184	5.788	5.788	(1.014)	104602	2.50000	2.02(M)
90 4-Nitrophenol	109	5.884	5.906	(1.031)	213123	2.50000	2.55
92 Dibenzofuran	168	5.906	5.906	(1.035)	1224670	2.50000	2.37
93 2,4-Dinitrotoluene	165	5.911	5.911	(1.036)	312056	2.50000	2.42
97 Diethylphthalate	149	6.163	6.163	(1.080)	1335125	2.50000	2.81
98 Fluorene	166	6.238	6.238	(1.093)	993302	2.50000	2.34
99 4-Chlorophenyl phenyl ether	204	6.254	6.254	(1.096)	375365	2.50000	2.29
100 4-Nitroaniline	138	6.270	6.270	(1.098)	254604	2.50000	2.44
101 4,6-Dinitro-2-methylphenol	198	6.307	6.307	(0.897)	138408	2.50000	2.03
102 N-Nitrosodiphenylamine	169	6.371	6.371	(0.906)	809144	2.50000	2.12
112 4-Bromophenyl-phenylether	248	6.719	6.719	(0.955)	191808	2.50000	2.19
113 Hexachlorobenzene	284	6.762	6.762	(0.961)	199019	2.50000	2.18
118 Atrazine	200	6.863	6.863	(0.976)	213198	2.50000	2.30
121 Pentachlorophenol	266	6.911	6.911	(0.983)	96168	2.50000	2.04(M)
128 Phenanthrene	178	7.050	7.050	(1.002)	1281558	2.50000	2.27
130 Anthracene	178	7.088	7.088	(1.008)	1268531	2.50000	2.25
134 Carbazole	167	7.222	7.222	(1.027)	1072440	2.50000	2.14
140 Di-n-butylphthalate	149	7.527	7.527	(1.070)	1964316	2.50000	2.37
149 Fluoranthene	202	8.008	8.008	(1.138)	1115148	2.50000	2.25
155 Pyrene	202	8.200	8.200	(0.879)	1233892	2.50000	2.16
173 Butylbenzylphthalate	149	8.853	8.853	(0.948)	933507	2.50000	2.33
180 3,3'-Dichlorobenzidine	252	9.334	9.334	(1.000)	246398	2.50000	2.20
181 Benzo(a)Anthracene	228	9.324	9.324	(0.999)	939977	2.50000	2.20
183 Chrysene	228	9.356	9.356	(1.002)	940999	2.50000	2.20
184 bis(2-ethylhexyl)phthalate	149	9.457	9.457	(1.013)	1342446	2.50000	2.33
190 Di-n-octylphthalate	149	10.206	10.206	(0.928)	2281563	2.50000	2.43
192 Benzo(b)fluoranthene	252	10.538	10.538	(0.958)	845666	2.50000	2.21
195 Benzo(k)fluoranthene	252	10.570	10.570	(0.961)	983754	2.50000	2.33
197 Benzo(a)pyrene	252	10.928	10.928	(0.993)	869549	2.50000	2.26
209 Indeno(1,2,3-cd)pyrene	276	12.372	12.372	(1.124)	769277	2.50000	2.45
210 Dibenzo(a,h)anthracene	278	12.421	12.421	(1.129)	722096	2.50000	2.18

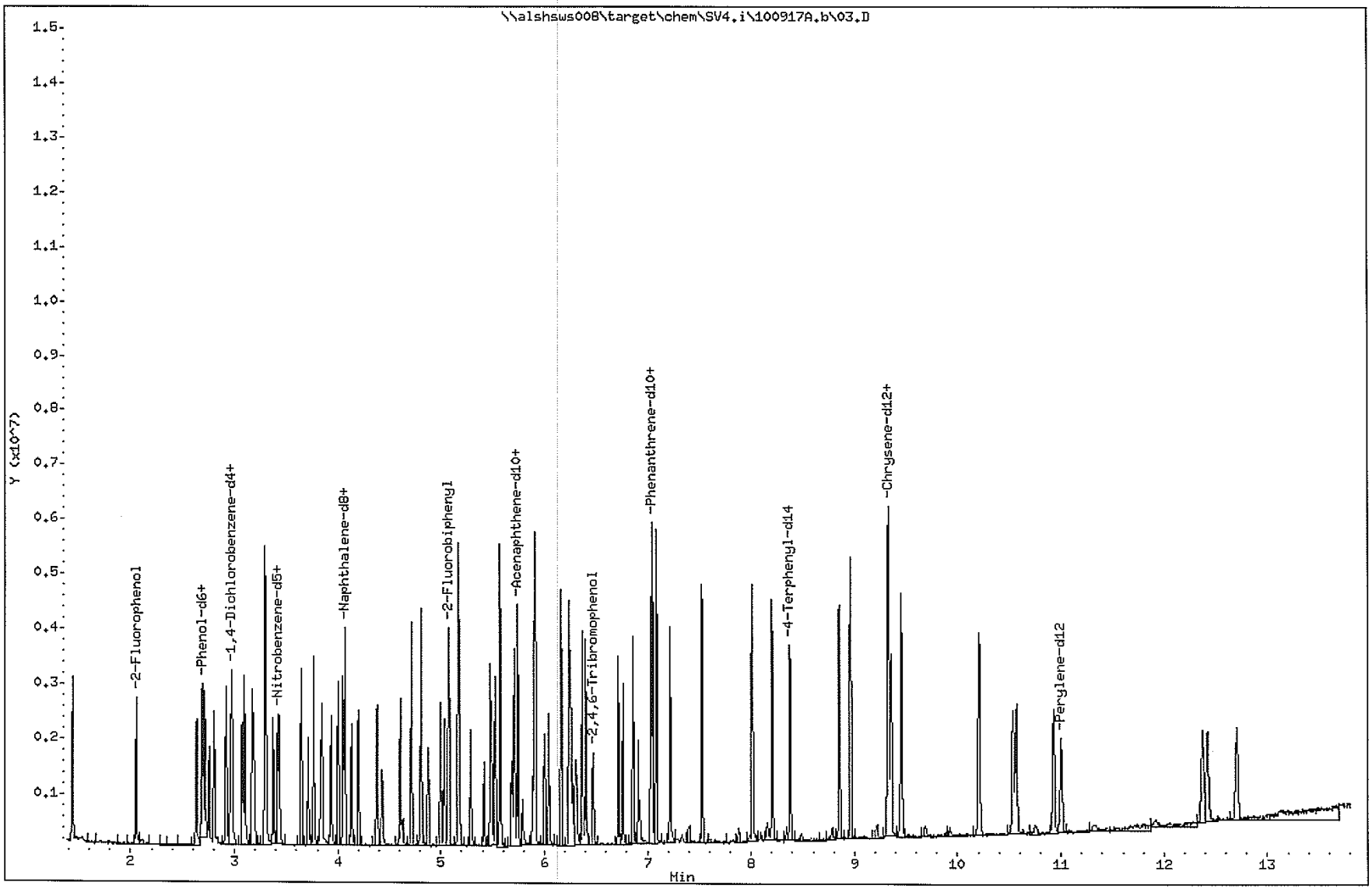
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	12.704	12.704	(1.155)	837716	2.50000	2.23

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\03.D
Date : 17-SEP-2010 19:39
Client ID: SLSTD-2.6
Sample Info: SLSTD-2.5;SLSTD-2.6
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV4.i
Operator: lg
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100917A.b\05.D
Lab Smp Id: SLCSS2-100917 Client Smp ID: SLCSS2-100917
Inj Date : 17-SEP-2010 20:20 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLCSS2-100917;SLCSS2-100917;3;;LCS
Misc Info : 1009537;2;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100917A.b\R8270DLL.m
Meth Date : 23-Sep-2010 13:52 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Ws	30.000	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 (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 20 1,4-Dichlorobenzene-d4	152	2.959	2.959	(1.000)	200219	2.00000	
$ 9 2-Fluorophenol	112	2.055	2.055	(0.695)	514589	3.54737	118.24
$ 13 Phenol-d6	99	2.681	2.681	(0.906)	695841	3.68830	122.94
* 45 Naphthalene-d8	136	4.050	4.050	(1.000)	778731	2.00000	
$ 33 Nitrobenzene-d5	82	3.419	3.419	(0.844)	576402	3.50488	116.82
* 86 Acenaphthene-d10	164	5.708	5.708	(1.000)	415735	2.00000	
$ 69 2-Fluorobiphenyl	172	5.077	5.077	(0.889)	1005172	3.50163	116.72
* 126 Phenanthrene-d10	188	7.035	7.034	(1.000)	616620	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.473	6.473	(1.134)	122776	3.65488	121.82
* 182 Chrysene-d12	240	9.318	9.334	(1.000)	461820	2.00000	
$ 158 4-Terphenyl-d14	244	8.366	8.372	(0.898)	654800	3.59091	119.69
* 198 Perylene-d12	264	10.982	11.003	(1.000)	440414	2.00000	
12 Benzaldehyde	77	2.638	2.638	(0.892)	139609	1.39719	46.57(M)
14 Phenol	94	2.692	2.691	(0.910)	814106	4.67445	155.81(QM)
17 Bis(2-chloroethyl)ether	93	2.756	2.756	(0.931)	408024	2.83877	94.62(Q)
18 2-Chlorophenol	128	2.804	2.804	(0.948)	529072	3.79042	126.34
24 2-Methylphenol	108	3.173	3.173	(1.072)	515202	3.97145	132.38
29 3&4-Methylphenol	107	3.301	3.306	(1.116)	612297	4.01405	133.80
25 bis(2-Chloroisopropyl)ether	45	3.184	3.189	(1.076)	667888	4.12469	137.48
27 Acetophenone	105	3.291	3.290	(0.812)	758384	3.71542	123.84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
28	N-Nitroso-di-n-propylamine	70	3.296	3.296	(1.114)	406917	3.92700	130.89
31	Hexachloroethane	117	3.376	3.376	(1.141)	233451	3.74295	124.76
35	Nitrobenzene	77	3.435	3.435	(0.848)	586205	3.63203	121.06
36	Isophorone	82	3.644	3.643	(0.900)	1060437	3.87436	129.14
37	2-Nitrophenol	139	3.713	3.713	(0.917)	300029	3.71940	123.98
40	2,4-Dimethylphenol	122	3.767	3.766	(0.930)	496434	3.81312	127.10
41	Bis(2-chloroethoxy)methane	93	3.841	3.841	(0.949)	569125	3.64454	121.48
43	2,4-Dichlorophenol	162	3.932	3.932	(0.971)	425918	3.86255	128.75
46	Naphthalene	128	4.071	4.071	(1.005)	1628208	3.77139	125.71
48	4-Chloroaniline	127	4.130	4.130	(1.020)	608167	3.73723	124.57
51	Hexachlorobutadiene	225	4.200	4.200	(1.037)	204769	3.73065	124.35
57	Caprolactam	113	4.435	4.430	(1.095)	164945	4.07640	135.88
58	4-Chloro-3-Methylphenol	107	4.606	4.606	(1.137)	491897	3.84109	128.03
61	2-Methylnaphthalene	141	4.719	4.718	(1.165)	879620	3.73944	124.64
63	Hexachlorocyclopentadiene	237	4.879	4.879	(0.855)	194428	3.34080	111.36
66	2,4,6-Trichlorophenol	196	4.997	4.997	(0.875)	271360	4.00892	133.63
68	2,4,5-Trichlorophenol	196	5.034	5.034	(0.882)	282666	3.84756	128.25
73	1,1'-Biphenyl	154	5.168	5.168	(0.905)	1239510	3.87743	129.24
74	2-Chloronaphthalene	162	5.179	5.173	(0.907)	1320448	4.02153	134.05
77	2-Nitroaniline	65	5.286	5.285	(0.926)	416961	5.32254	177.41
80	Dimethylphthalate	163	5.478	5.478	(0.960)	1183437	3.98548	132.84
82	2,6-Dinitrotoluene	165	5.521	5.521	(0.967)	253411	3.88631	129.54
83	Acenaphthylene	152	5.569	5.569	(0.976)	1621662	3.77648	125.88
85	3-Nitroaniline	138	5.687	5.681	(0.996)	277652	4.05850	135.28
88	Acenaphthene	154	5.740	5.740	(1.006)	933697	3.78597	126.19
89	2,4-Dinitrophenol	184	5.788	5.788	(1.014)	112168	3.01739	100.57
90	4-Nitrophenol	109	5.890	5.884	(1.032)	266268	4.66305	155.43
92	Dibenzofuran	168	5.906	5.906	(1.035)	1389897	3.92522	130.84
93	2,4-Dinitrotoluene	165	5.911	5.911	(1.036)	341646	3.87895	129.29
97	Diethylphthalate	149	6.163	6.163	(1.080)	1213529	3.73027	124.34
98	Fluorene	166	6.238	6.238	(1.093)	1125161	3.87450	129.15
99	4-Chlorophenyl phenyl ether	204	6.254	6.254	(1.096)	438454	3.91959	130.65
100	4-Nitroaniline	138	6.270	6.270	(1.098)	292431	4.09803	136.60
101	4,6-Dinitro-2-methylphenol	198	6.307	6.307	(0.897)	162773	3.70510	123.50
102	N-Nitrosodiphenylamine	169	6.371	6.371	(0.906)	925665	3.76932	125.64
112	4-Bromophenyl-phenylether	248	6.719	6.719	(0.955)	226196	4.01163	133.72
113	Hexachlorobenzene	284	6.762	6.762	(0.961)	222261	3.78622	126.20
118	Atrazine	200	6.863	6.863	(0.976)	243151	4.07425	135.80
121	Pentachlorophenol	266	6.912	6.911	(0.983)	94778	2.99230	99.74
128	Phenanthrene	178	7.051	7.050	(1.002)	1402462	3.85768	128.58
130	Anthracene	178	7.088	7.088	(1.008)	1387670	3.82385	127.46
134	Carbazole	167	7.216	7.222	(1.026)	1355335	4.19264	139.75
140	Di-n-butylphthalate	149	7.521	7.527	(1.069)	2354749	4.40199	146.73
149	Fluoranthene	202	8.003	8.008	(1.138)	1327142	4.14838	138.27
155	Pyrene	202	8.195	8.200	(0.879)	1469261	4.11634	137.21
173	Butylbenzylphthalate	149	8.842	8.853	(0.949)	1120379	4.48597	149.53
180	3,3'-Dichlorobenzidine	252	9.318	9.334	(1.000)	336286	4.81343	160.44
181	Benzo(a)Anthracene	228	9.308	9.324	(0.999)	1048186	3.93030	131.01
183	Chrysene	228	9.345	9.356	(1.003)	1102755	4.14232	138.07
184	bis(2-ethylhexyl)phthalate	149	9.447	9.457	(1.014)	1615529	4.50241	150.08
190	Di-n-octylphthalate	149	10.196	10.206	(0.928)	2672407	4.35498	145.16
192	Benzo(b)fluoranthene	252	10.517	10.538	(0.958)	1118548	4.48707	149.56(H)
195	Benzo(k)fluoranthene	252	10.554	10.570	(0.961)	1062349	3.85203	128.40
197	Benzo(a)pyrene	252	10.912	10.928	(0.994)	1035626	4.13353	137.78

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
209 Indeno(1,2,3-cd)pyrene	276	12.351	12.372	(1.125)	943891	4.61443	153.81
210 Dibenzo(a,h)anthracene	278	12.399	12.421	(1.129)	900432	4.16446	138.81
212 Benzo(g,h,i)perylene	276	12.683	12.704	(1.155)	959005	3.91673	130.55

QC Flag Legend

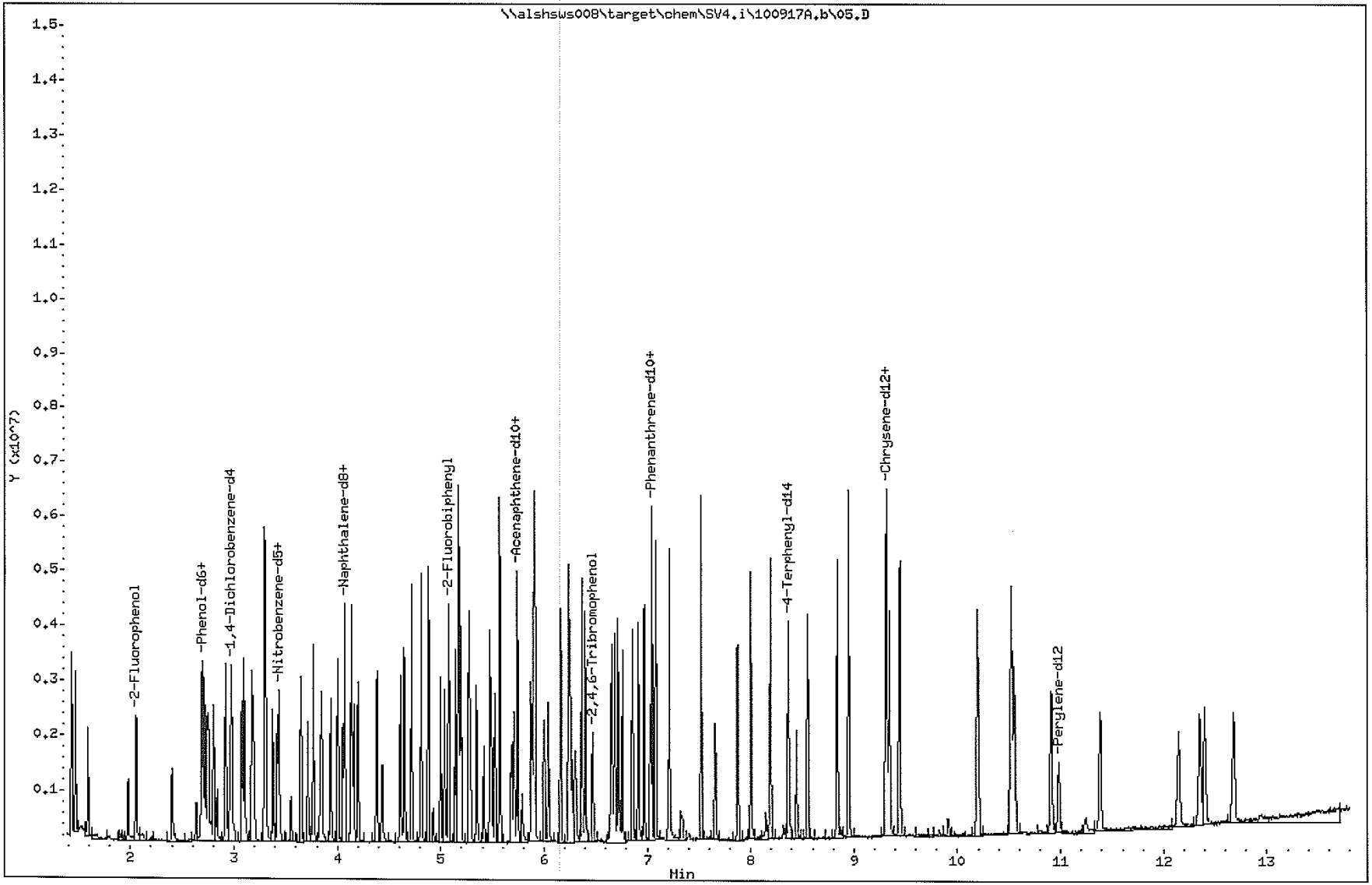
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\05.D
Date : 17-SEP-2010 20:20
Client ID: SLCSS2-100917
Sample Info: SLCSS2-100917;SLCSS2-100917;3;;LCS

Instrument: SV4.i

Operator: lg
Column diameter: 0.28

Column phase: RTX-5SIL MS



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100917A.b\06.D
Lab Smp Id: SLCSDS2-100917 Client Smp ID: SLCSDS2-100917
Inj Date : 17-SEP-2010 20:40 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLCSDS2-100917;SLCSDS2-100917;3;;LCSD
Misc Info : 1009537;2;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100917A.b\R8270DLL.m
Meth Date : 23-Sep-2010 13:52 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 6 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Ws	30.000	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 (NG)	FINAL (ug/Kg)
* 20 1,4-Dichlorobenzene-d4	152	2.959	2.959	(1.000)	180190	2.00000	
$ 9 2-Fluorophenol	112	2.050	2.055	(0.693)	407998	3.12521	104.17
$ 13 Phenol-d6	99	2.686	2.681	(0.908)	577840	3.40328	113.44
* 45 Naphthalene-d8	136	4.050	4.050	(1.000)	647703	2.00000	
$ 33 Nitrobenzene-d5	82	3.419	3.419	(0.844)	511642	3.74047	124.68
* 86 Acenaphthene-d10	164	5.708	5.708	(1.000)	340643	2.00000	
$ 69 2-Fluorobiphenyl	172	5.077	5.077	(0.889)	858226	3.64879	121.62
* 126 Phenanthrene-d10	188	7.035	7.034	(1.000)	491599	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.473	6.473	(1.134)	102356	3.71869	123.95
* 182 Chrysene-d12	240	9.329	9.334	(1.000)	383811	2.00000	
$ 158 4-Terphenyl-d14	244	8.372	8.372	(0.897)	569104	3.75528	125.17
* 198 Perylene-d12	264	11.003	11.003	(1.000)	355706	2.00000	
12 Benzaldehyde	77	2.638	2.638	(0.892)	108586	1.20751	40.25(M)
14 Phenol	94	2.691	2.691	(0.910)	680135	4.33929	144.64
17 Bis(2-chloroethyl)ether	93	2.756	2.756	(0.931)	498812	3.85617	128.53
18 2-Chlorophenol	128	2.804	2.804	(0.948)	422988	3.36725	112.24
24 2-Methylphenol	108	3.173	3.173	(1.072)	424832	3.63885	121.29
29 3&4-Methylphenol	107	3.307	3.306	(1.117)	476685	3.47237	115.74
25 bis(2-Chloroisopropyl)ether	45	3.189	3.189	(1.078)	536161	3.67923	122.64
27 Acetophenone	105	3.296	3.290	(0.814)	640939	3.77526	125.84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
28	N-Nitroso-di-n-propylamine	70	3.301	3.296	(1.116)	311402	3.33926	111.30
31	Hexachloroethane	117	3.376	3.376	(1.141)	200250	3.56751	118.91
35	Nitrobenzene	77	3.435	3.435	(0.848)	493445	3.67578	122.52
36	Isophorone	82	3.649	3.643	(0.901)	882362	3.87591	129.19
37	2-Nitrophenol	139	3.713	3.713	(0.917)	245403	3.65764	121.92
40	2,4-Dimethylphenol	122	3.767	3.766	(0.930)	381903	3.52682	117.56
41	Bis(2-chloroethoxy)methane	93	3.847	3.841	(0.950)	497228	3.82827	127.60
43	2,4-Dichlorophenol	162	3.938	3.932	(0.972)	353265	3.85177	128.39
46	Naphthalene	128	4.071	4.071	(1.005)	1343002	3.74007	124.66
48	4-Chloroaniline	127	4.130	4.130	(1.020)	476140	3.51782	117.26
51	Hexachlorobutadiene	225	4.200	4.200	(1.037)	175067	3.83474	127.82
57	Caprolactam	113	4.430	4.430	(1.094)	143012	4.24935	141.64
58	4-Chloro-3-Methylphenol	107	4.606	4.606	(1.137)	390833	3.66930	122.30
61	2-Methylnaphthalene	141	4.719	4.718	(1.165)	725859	3.71001	123.66
63	Hexachlorocyclopentadiene	237	4.879	4.879	(0.855)	144764	3.03578	101.19
66	2,4,6-Trichlorophenol	196	4.997	4.997	(0.875)	196241	3.53825	117.94
68	2,4,5-Trichlorophenol	196	5.034	5.034	(0.882)	238691	3.96520	132.17
73	1,1'-Biphenyl	154	5.168	5.168	(0.905)	1023956	3.90924	130.30
74	2-Chloronaphthalene	162	5.179	5.173	(0.907)	1152738	4.48428	149.47
77	2-Nitroaniline	65	5.286	5.285	(0.926)	332227	5.17578	172.52
80	Dimethylphthalate	163	5.478	5.478	(0.960)	939843	3.86285	128.76
82	2,6-Dinitrotoluene	165	5.521	5.521	(0.967)	218659	4.09258	136.41
83	Acenaphthylene	152	5.569	5.569	(0.976)	1355380	3.85216	128.40
85	3-Nitroaniline	138	5.681	5.681	(0.995)	229633	4.09653	136.55
88	Acenaphthene	154	5.740	5.740	(1.006)	751860	3.72070	124.02
89	2,4-Dinitrophenol	184	5.788	5.788	(1.014)	77043	2.57779	85.92
90	4-Nitrophenol	109	5.890	5.884	(1.032)	201667	4.31026	143.67
92	Dibenzofuran	168	5.906	5.906	(1.035)	1123283	3.87157	129.05
93	2,4-Dinitrotoluene	165	5.911	5.911	(1.036)	281938	3.90669	130.22
97	Diethylphthalate	149	6.163	6.163	(1.080)	1061396	3.98184	132.72
98	Fluorene	166	6.238	6.238	(1.093)	912208	3.83365	127.78
99	4-Chlorophenyl phenyl ether	204	6.254	6.254	(1.096)	357933	3.90513	130.17
100	4-Nitroaniline	138	6.270	6.270	(1.098)	253260	4.33147	144.38
101	4,6-Dinitro-2-methylphenol	198	6.307	6.307	(0.897)	117565	3.35662	111.88
102	N-Nitrosodiphenylamine	169	6.371	6.371	(0.906)	789232	4.03107	134.36
112	4-Bromophenyl-phenylether	248	6.719	6.719	(0.955)	183987	4.09289	136.42
113	Hexachlorobenzene	284	6.767	6.762	(0.962)	173051	3.69763	123.25
118	Atrazine	200	6.863	6.863	(0.976)	187291	3.93636	131.21
121	Pentachlorophenol	266	6.912	6.911	(0.983)	73132	2.90512	96.83
128	Phenanthrene	178	7.051	7.050	(1.002)	1196465	4.12802	137.60
130	Anthracene	178	7.088	7.088	(1.008)	1177989	4.07157	135.71
134	Carbazole	167	7.222	7.222	(1.027)	1136752	4.41075	147.02
140	Di-n-butylphthalate	149	7.527	7.527	(1.070)	1901823	4.45945	148.64
149	Fluoranthene	202	8.008	8.008	(1.138)	1093901	4.28890	142.96
155	Pyrene	202	8.201	8.200	(0.879)	1202545	4.05387	135.12
173	Butylbenzylphthalate	149	8.848	8.853	(0.948)	933277	4.49632	149.87
180	3,3'-Dichlorobenzidine	252	9.329	9.334	(1.000)	301984	5.20098	173.36
181	Benzo(a)Anthracene	228	9.324	9.324	(0.999)	897697	4.05017	135.00
183	Chrysene	228	9.356	9.356	(1.003)	919038	4.15387	138.46
184	bis(2-ethylhexyl)phthalate	149	9.452	9.457	(1.013)	1312979	4.40295	146.76
190	Di-n-octylphthalate	149	10.206	10.206	(0.928)	2314236	4.66940	155.64
192	Benzo(b)fluoranthene	252	10.538	10.538	(0.958)	876910	4.35545	145.18
195	Benzo(k)fluoranthene	252	10.570	10.570	(0.961)	883812	3.96782	132.26
197	Benzo(a)pyrene	252	10.928	10.928	(0.993)	843013	4.16603	138.86

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
209 Indeno(1,2,3-cd)pyrene	276	12.373	12.372	(1.124)	749912	4.53917	151.30
210 Dibenzo(a,h)anthracene	278	12.421	12.421	(1.129)	716882	4.10512	136.83
212 Benzo(g,h,i)perylene	276	12.704	12.704	(1.155)	809928	4.09562	136.52

QC Flag Legend

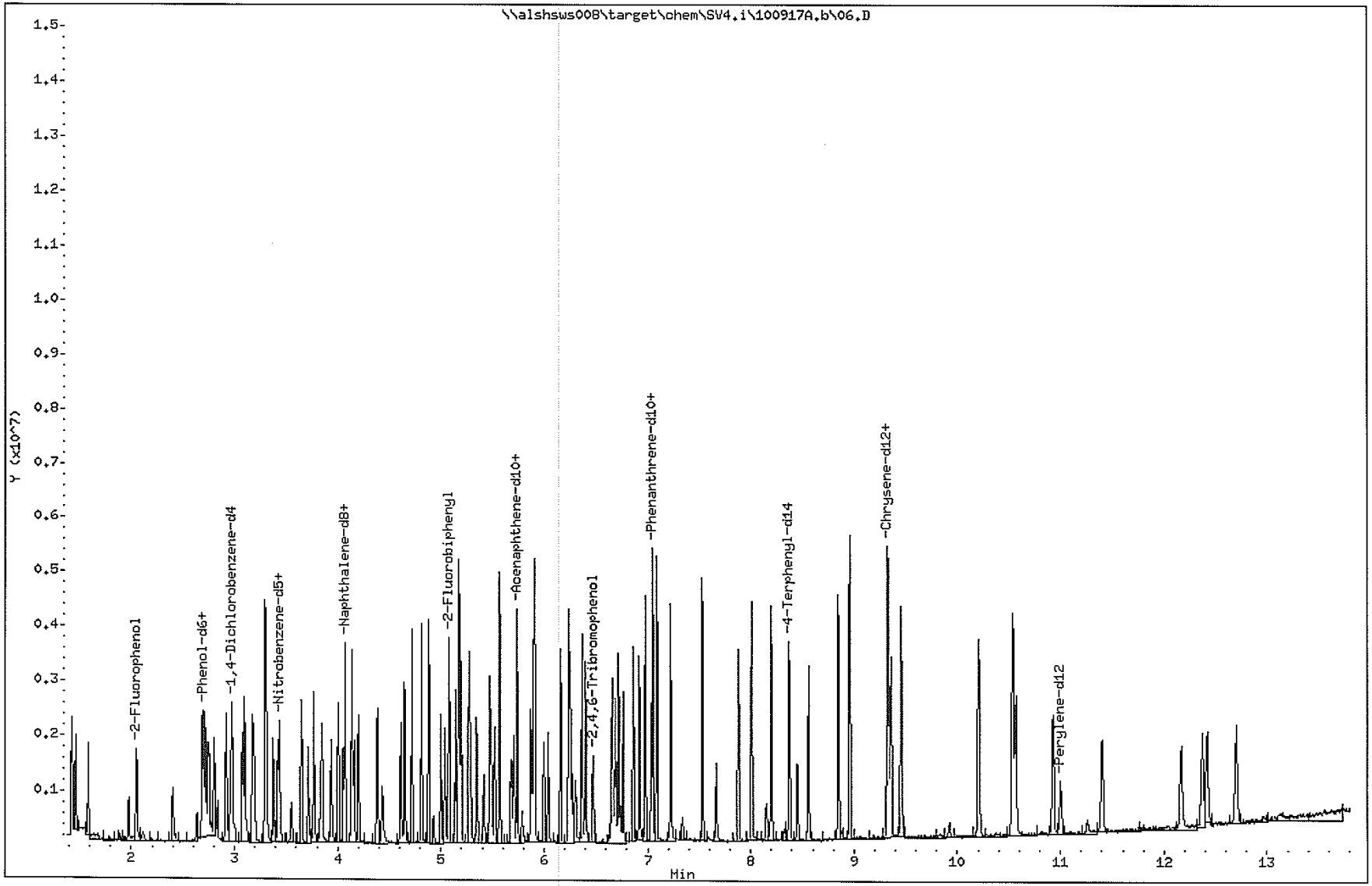
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\06.D
Date : 17-SEP-2010 20:40
Client ID: SLCSDS2-100917
Sample Info: SLCSDS2-100917;SLCSDS2-100917;3;;LCSD

Instrument: SV4.i

Operator: lg
Column diameter: 0.28

Column phase: RTX-5SIL MS



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100917A.b\19.D
Lab Smp Id: 1009543-01C Client Smp ID: 1009543-01C
Inj Date : 18-SEP-2010 00:53 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : 1009543-01C;1009543-01C
Misc Info : 1009537;2;0;1;;;500;;15.01
Comment :
Method : \\alshsws008\target\chem\SV4.i\100917A.b\R8270DLL.m
Meth Date : 23-Sep-2010 13:52 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Ws	15.010	Weight of sample extracted (g)
M	70.800	% Moisture
Cpnd Variable		Local Compound Variable

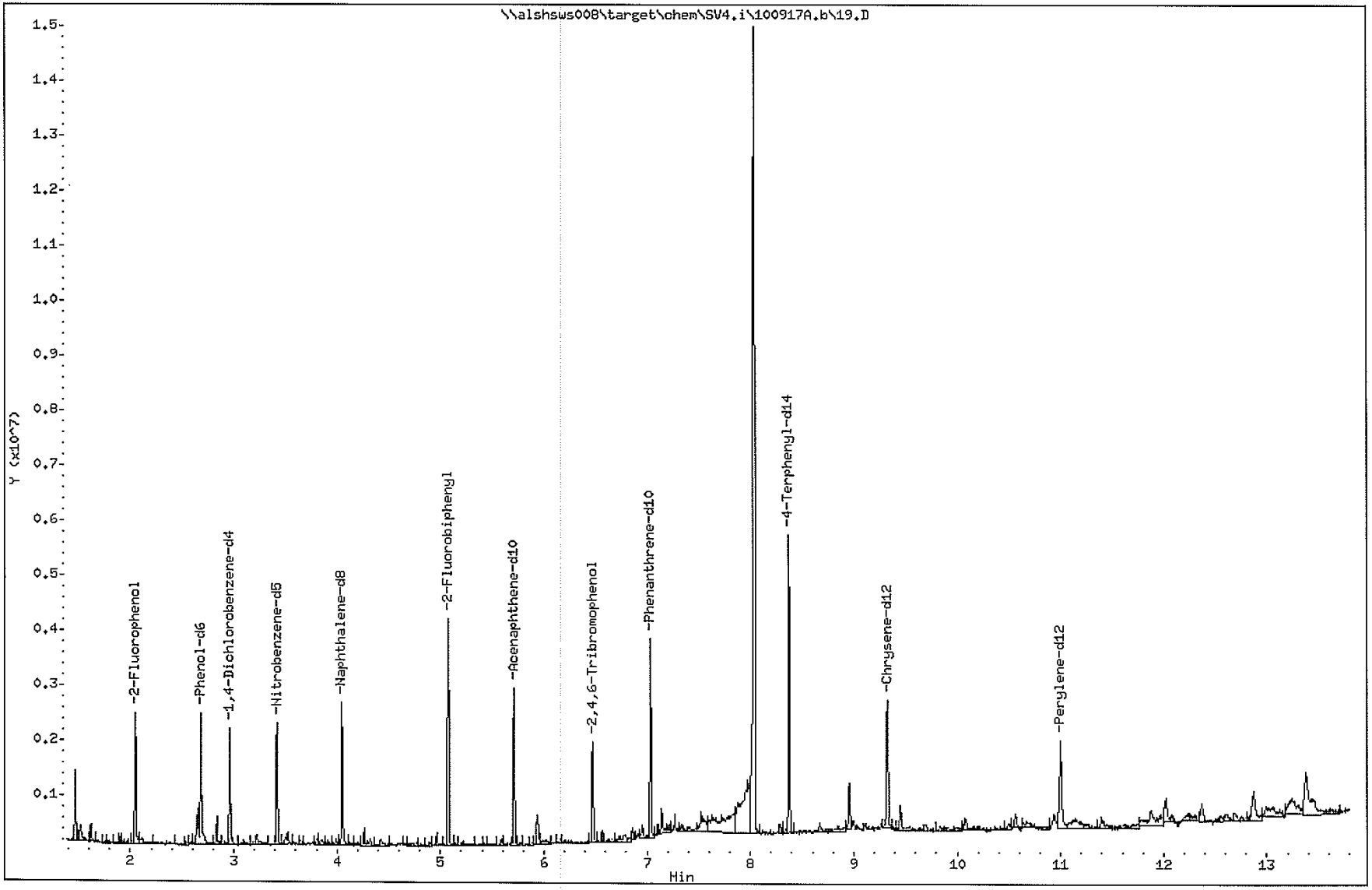
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 20 1,4-Dichlorobenzene-d4	152	2.959	2.959	(1.000)	223324	2.00000	
$ 9 2-Fluorophenol	112	2.049	2.055	(0.693)	478389	2.95663	337.29
$ 13 Phenol-d6	99	2.681	2.681	(0.906)	663535	3.15319	359.71
* 45 Naphthalene-d8	136	4.050	4.050	(1.000)	883343	2.00000	
$ 33 Nitrobenzene-d5	82	3.419	3.419	(0.844)	581423	3.11672	355.55
* 86 Acenaphthene-d10	164	5.708	5.708	(1.000)	500687	2.00000	
$ 69 2-Fluorobiphenyl	172	5.077	5.077	(0.889)	1020268	2.95117	336.66
* 126 Phenanthrene-d10	188	7.034	7.034	(1.000)	766621	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.473	6.473	(1.134)	128848	3.18484	363.32
* 182 Chrysene-d12	240	9.329	9.334	(1.000)	553794	2.00000	
$ 158 4-Terphenyl-d14	244	8.372	8.372	(0.897)	878661	4.01829	458.40
* 198 Perylene-d12	264	10.998	11.003	(1.000)	532725	2.00000	
184 bis(2-ethylhexyl)phthalate	149	9.452	9.457	(1.013)	147838	0.34359	39.19

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\19.D
Date : 18-SEP-2010 00:53
Client ID: 1009543-01C
Sample Info: 1009543-01C;1009543-01C

Instrument: SV4.i

Operator: lg
Column diameter: 0.28

Column phase: RTX-5SIL MS



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Date : 18-SEP-2010 00:53

Client ID: 1009543-01C

Instrument: SV4.i

Sample Info: 1009543-01C;1009543-01C

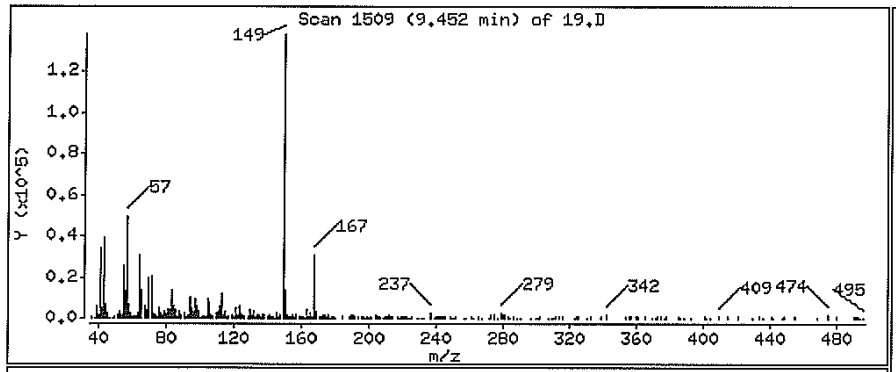
Operator: lg

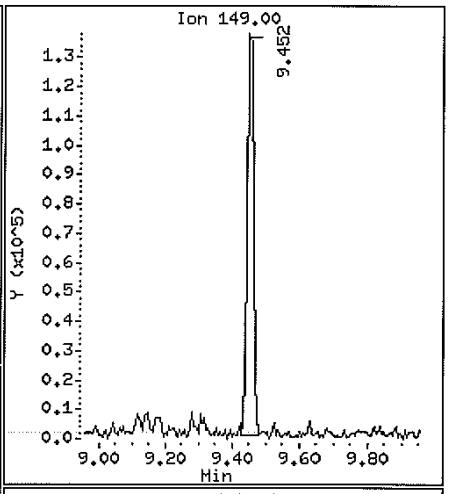
Column phase: RTX-5SIL MS

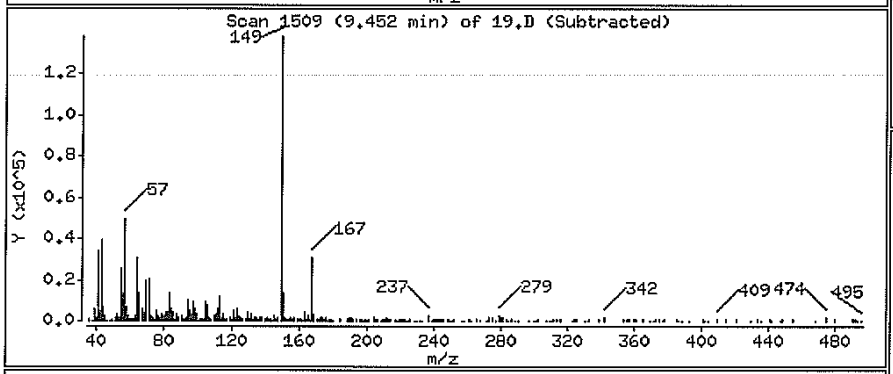
Column diameter: 0.28

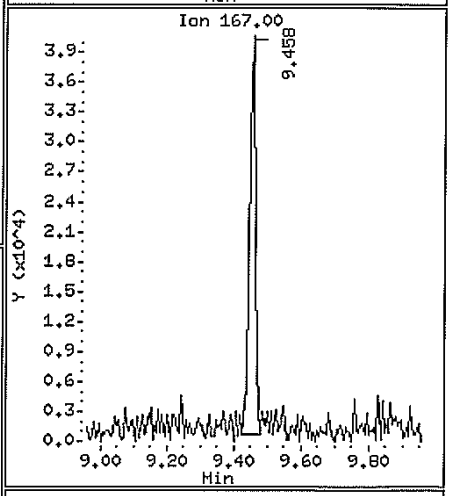
184 bis(2-ethylhexyl)phthalate

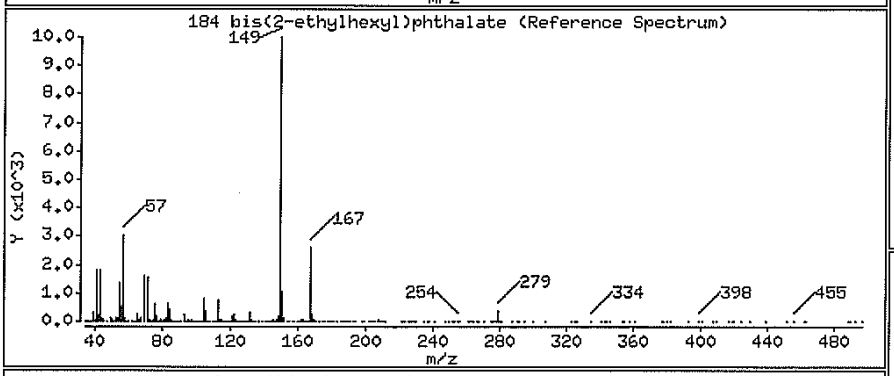
Concentration: 39.19 ug/Kg

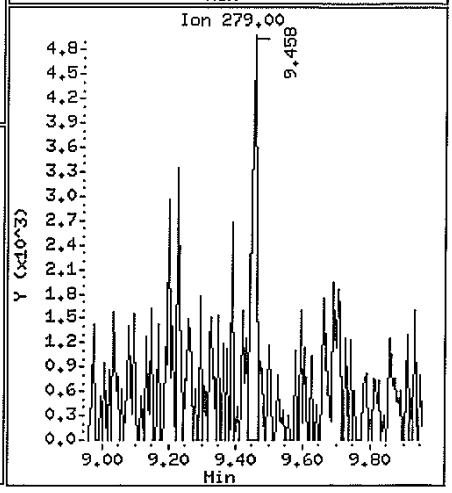


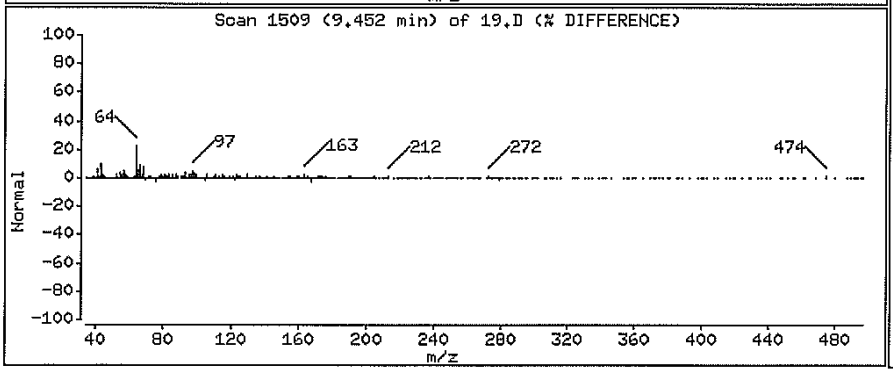












ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100917A.b\20.D
Lab Smp Id: 1009543-03C Client Smp ID: 1009543-03C
Inj Date : 18-SEP-2010 01:12 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : 1009543-03C;1009543-03C
Misc Info : 1009537;2;0;1;;;500;;15.04
Comment :
Method : \\alshsws008\target\chem\SV4.i\100917A.b\R8270DLL.m
Meth Date : 23-Sep-2010 13:52 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Ws	15.040	Weight of sample extracted (g)
M	61.600	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 20 1,4-Dichlorobenzene-d4	152	2.959	2.959	(1.000)	181595	2.00000	
$ 9 2-Fluorophenol	112	2.050	2.055	(0.693)	412046	3.13179	271.13
$ 13 Phenol-d6	99	2.681	2.681	(0.906)	603315	3.52583	305.24
* 45 Naphthalene-d8	136	4.050	4.050	(1.000)	738498	2.00000	
$ 33 Nitrobenzene-d5	82	3.419	3.419	(0.844)	486344	3.11838	269.97
* 86 Acenaphthene-d10	164	5.708	5.708	(1.000)	376446	2.00000	
$ 69 2-Fluorobiphenyl	172	5.077	5.077	(0.889)	893016	3.43560	297.43
* 126 Phenanthrene-d10	188	7.035	7.034	(1.000)	606258	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.473	6.473	(1.134)	99950	3.28592	284.47
* 182 Chrysene-d12	240	9.329	9.334	(1.000)	425358	2.00000	
$ 158 4-Terphenyl-d14	244	8.372	8.372	(0.897)	687708	4.09466	354.49
* 198 Perylene-d12	264	11.003	11.003	(1.000)	440972	2.00000	
149 Fluoranthene	202	8.008	8.008	(1.138)	36557	0.11622	10.06(a)
155 Pyrene	202	8.201	8.200	(0.879)	37662	0.11456	9.91(a)
173 Butylbenzylphthalate	149	8.848	8.853	(0.948)	31843	0.13843	11.98(a)
184 bis(2-ethylhexyl)phthalate	149	9.452	9.457	(1.013)	203368	0.61536	53.27

QC Flag Legend

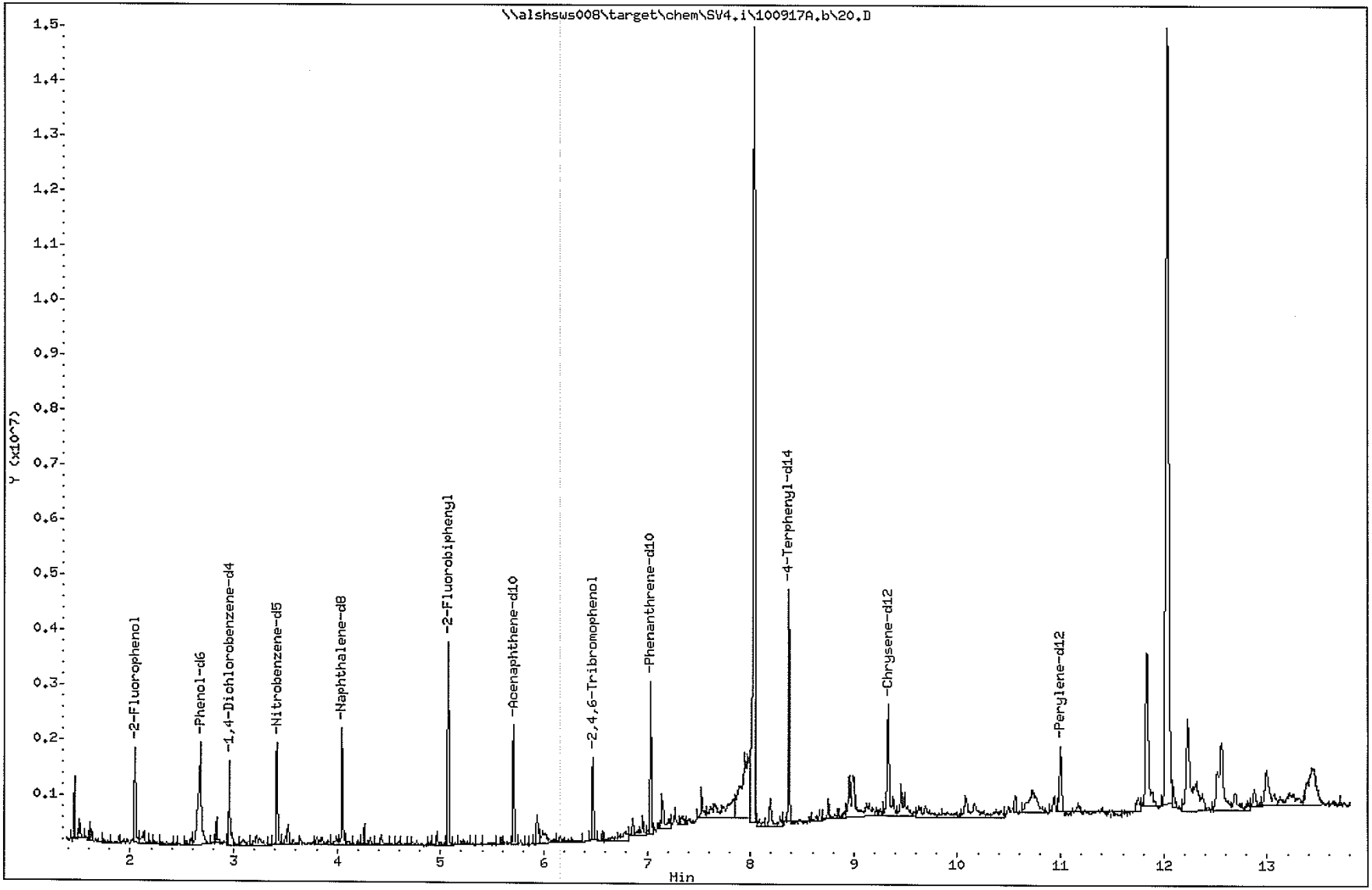
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\20.D
Date : 18-SEP-2010 01:12
Client ID: 1009543-03C
Sample Info: 1009543-03C;1009543-03C

Instrument: SV4.i

Operator: lg
Column diameter: 0.28

Column phase: RTX-5SIL MS



Data File: \\alshsws008\target\chem\SV4.i\100917A.b\20.D

Date : 18-SEP-2010 01:12

Client ID: 1009543-03C

Instrument: SV4.i

Sample Info: 1009543-03C;1009543-03C

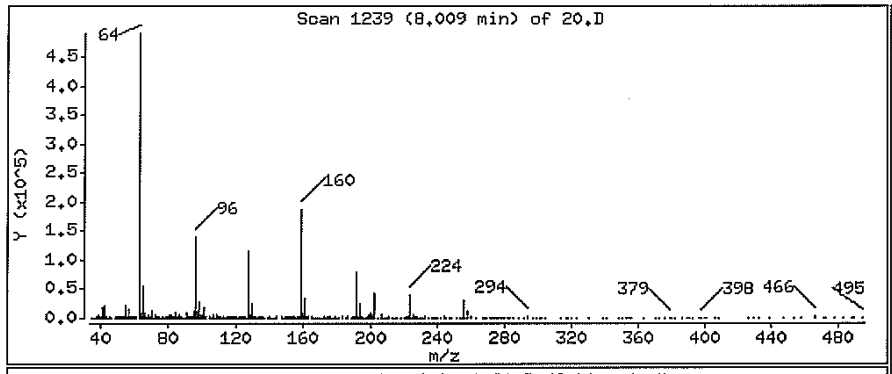
Operator: lg

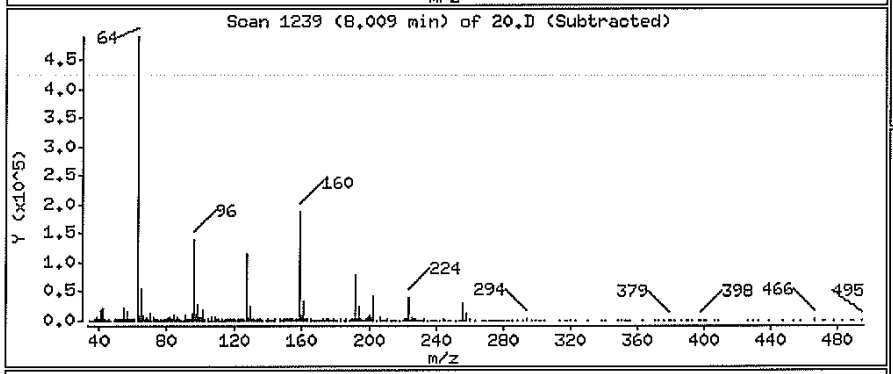
Column phase: RTX-5SIL MS

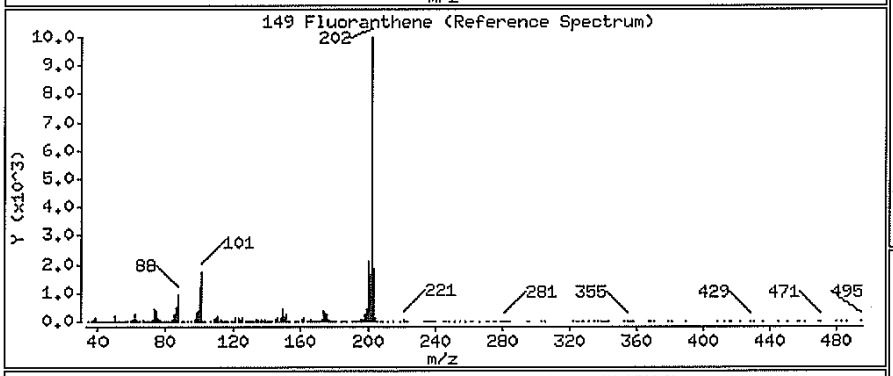
Column diameter: 0.28

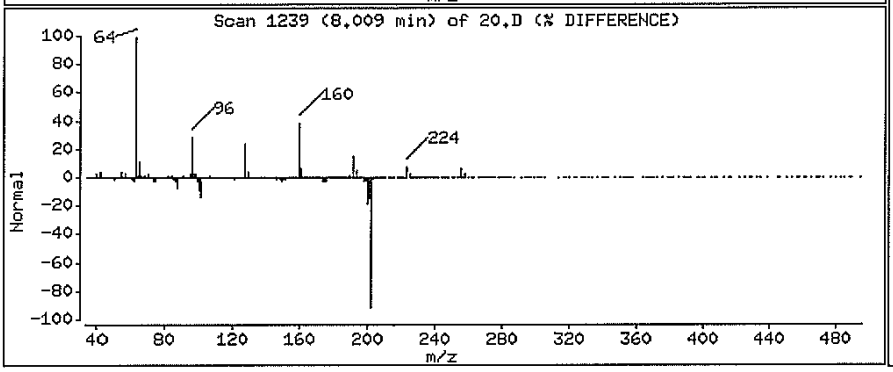
149 Fluoranthene

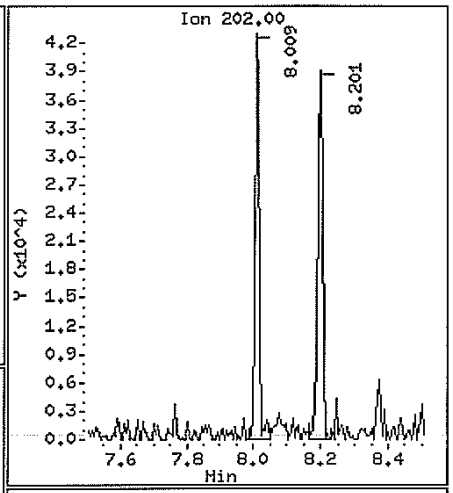
Concentration: 10.06 ug/Kg

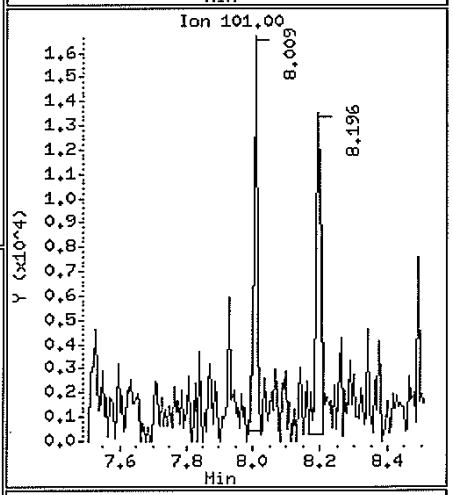


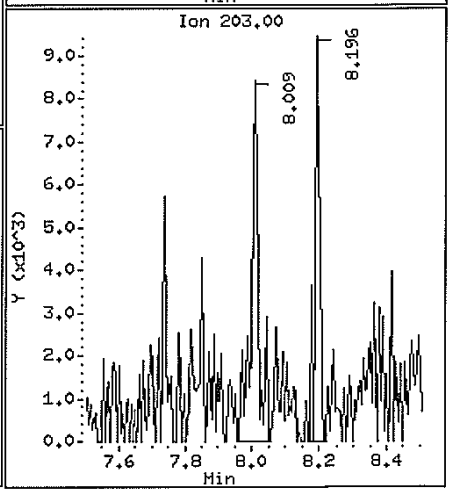












Data File: \\alshsws008\target\chem\SV4.i\100917A.b\20.D

Page 5

Date : 18-SEP-2010 01:12

Client ID: 1009543-03C

Instrument: SV4.i

Sample Info: 1009543-03C;1009543-03C

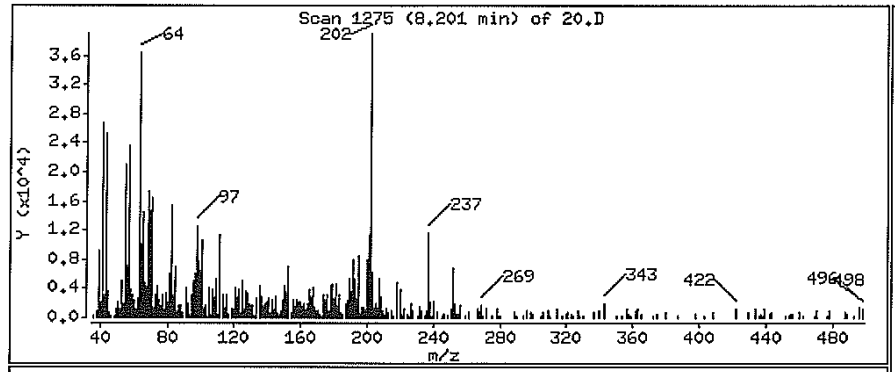
Operator: lg

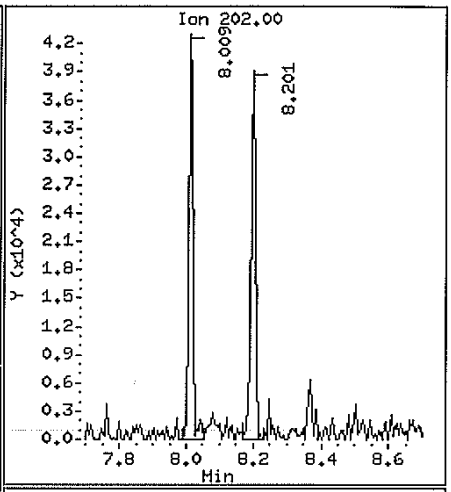
Column phase: RTX-5SIL MS

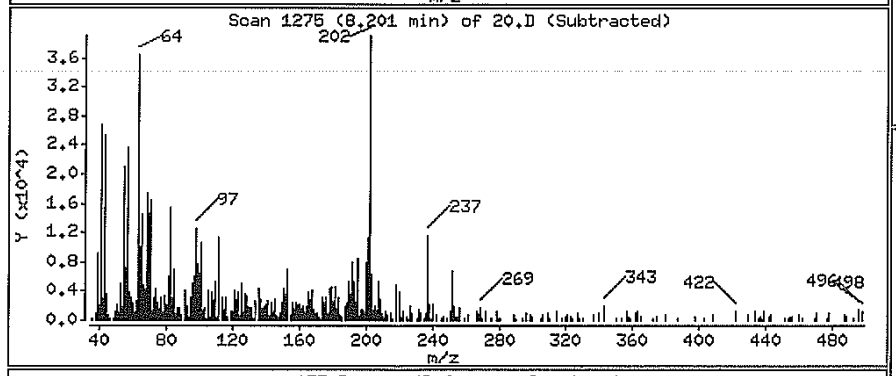
Column diameter: 0.28

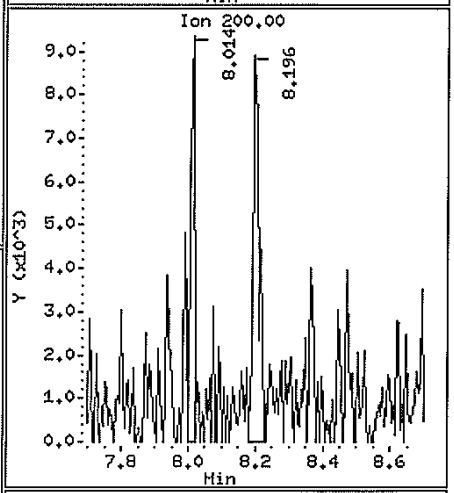
155 Pyrene

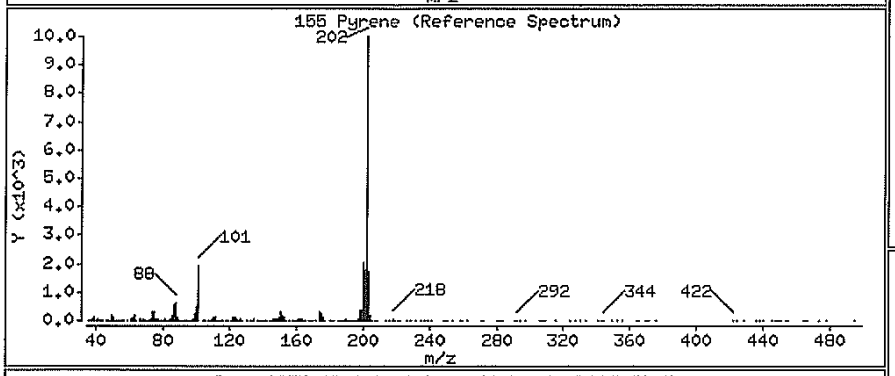
Concentration: 9.91 ug/Kg

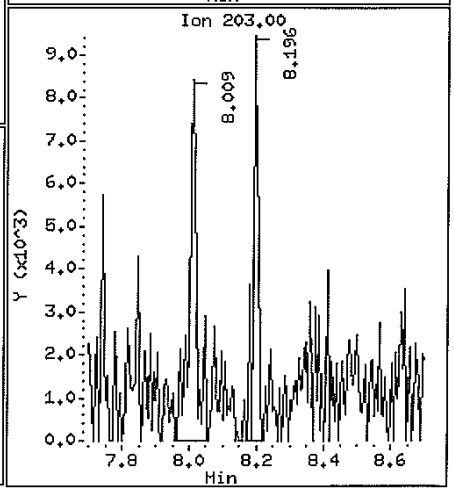


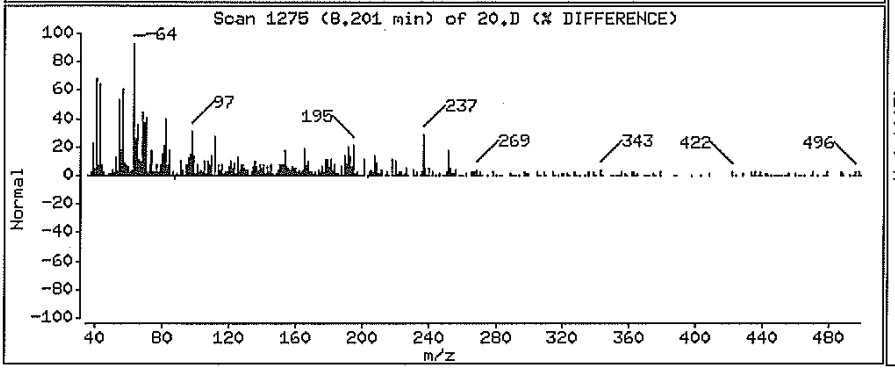












Data File: \\alshsws008\target\chem\SV4.i\100917A.b\20.D

Page 6

Date : 18-SEP-2010 01:12

Client ID: 1009543-03C

Instrument: SV4.i

Sample Info: 1009543-03C;1009543-03C

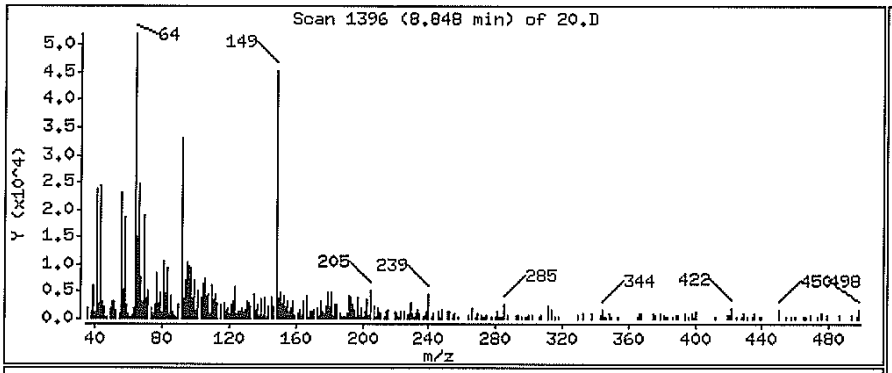
Operator: lg

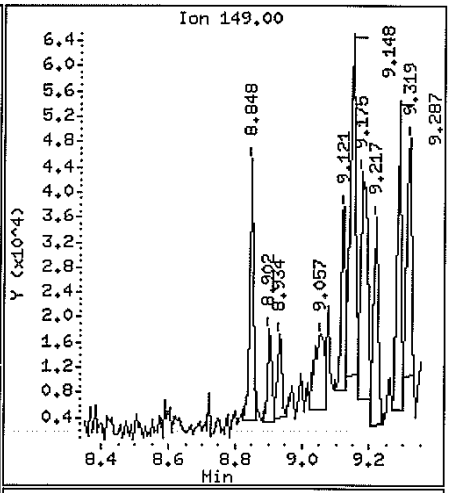
Column phase: RTX-5SIL MS

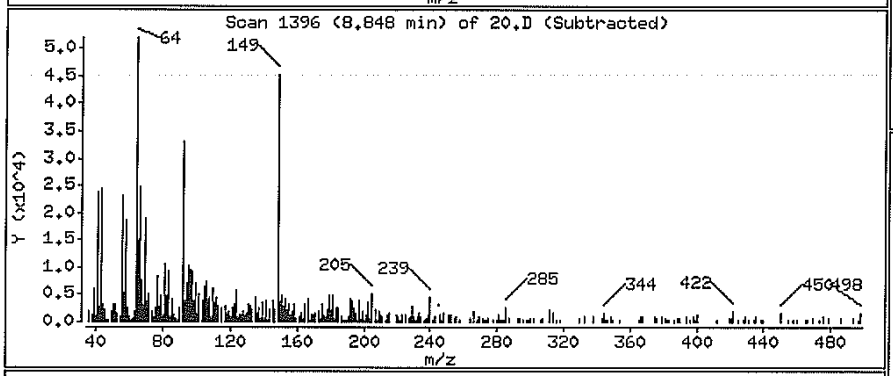
Column diameter: 0.28

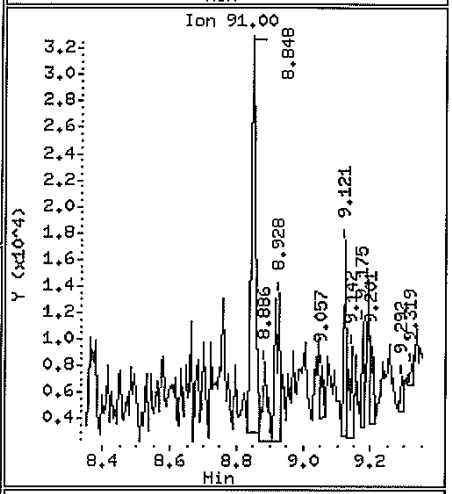
173 Butylbenzylphthalate

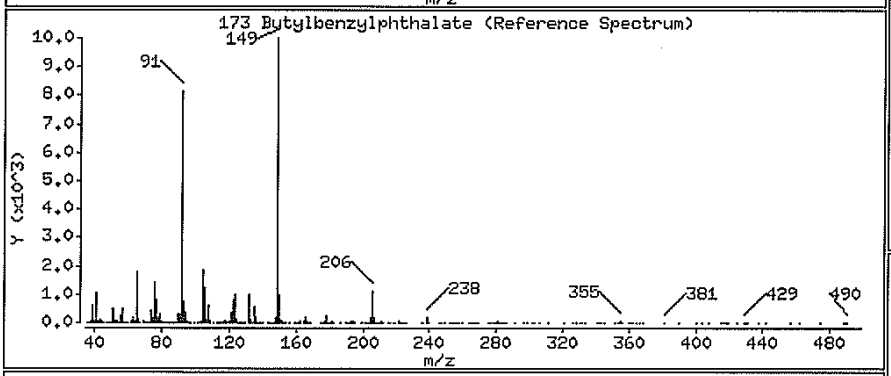
Concentration: 11.98 ug/Kg

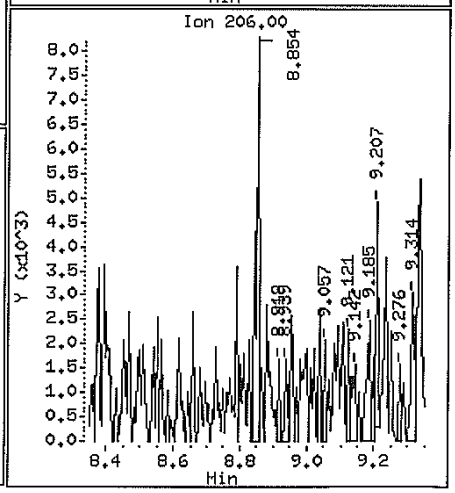


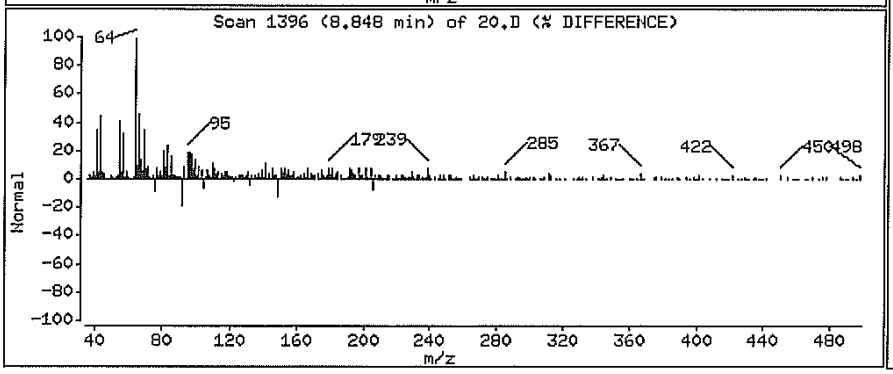












Data File: \\alshsws008\target\chem\SV4.i\100917A.b\20.D

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Date : 18-SEP-2010 01:12

Client ID: 1009543-03C

Instrument: SV4.i

Sample Info: 1009543-03C;1009543-03C

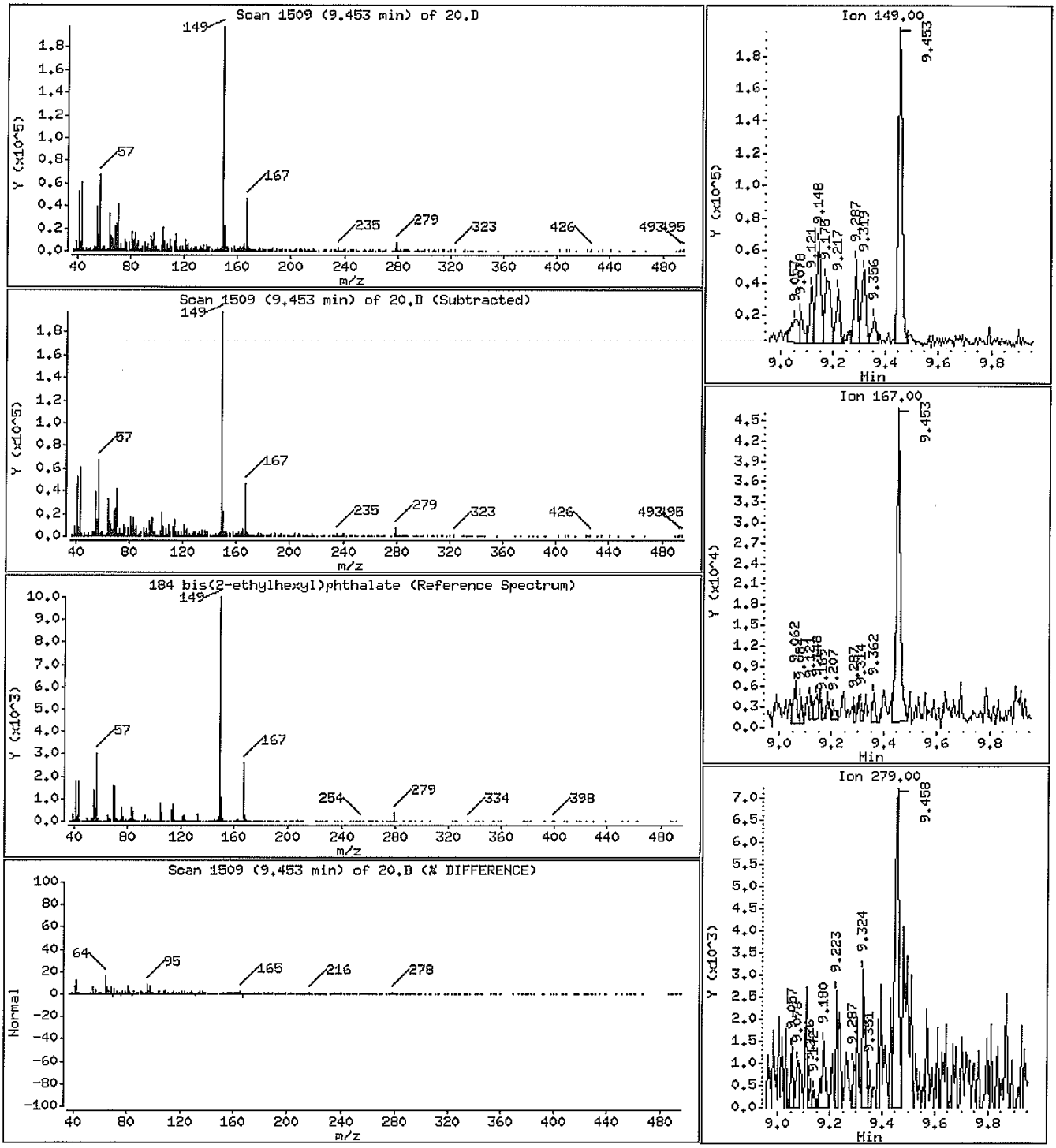
Operator: lg

Column phase: RTX-5SIL MS

Column diameter: 0.28

184 bis(2-ethylhexyl)phthalate

Concentration: 53.27 ug/Kg



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100917A.b\21.D
Lab Smp Id: 1009543-06C Client Smp ID: 1009543-06C
Inj Date : 18-SEP-2010 01:32 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : 1009543-06C;1009543-06C
Misc Info : 1009537;2;0;1;;;;;30.02
Comment :
Method : \\alshsws008\target\chem\SV4.i\100917A.b\R8270DLL.m
Meth Date : 23-Sep-2010 13:52 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL) (1000 low, 2
Ws	30.020	Weight of sample extracted (g)
M	14.100	% Moisture
Cpnd Variable		Local Compound Variable

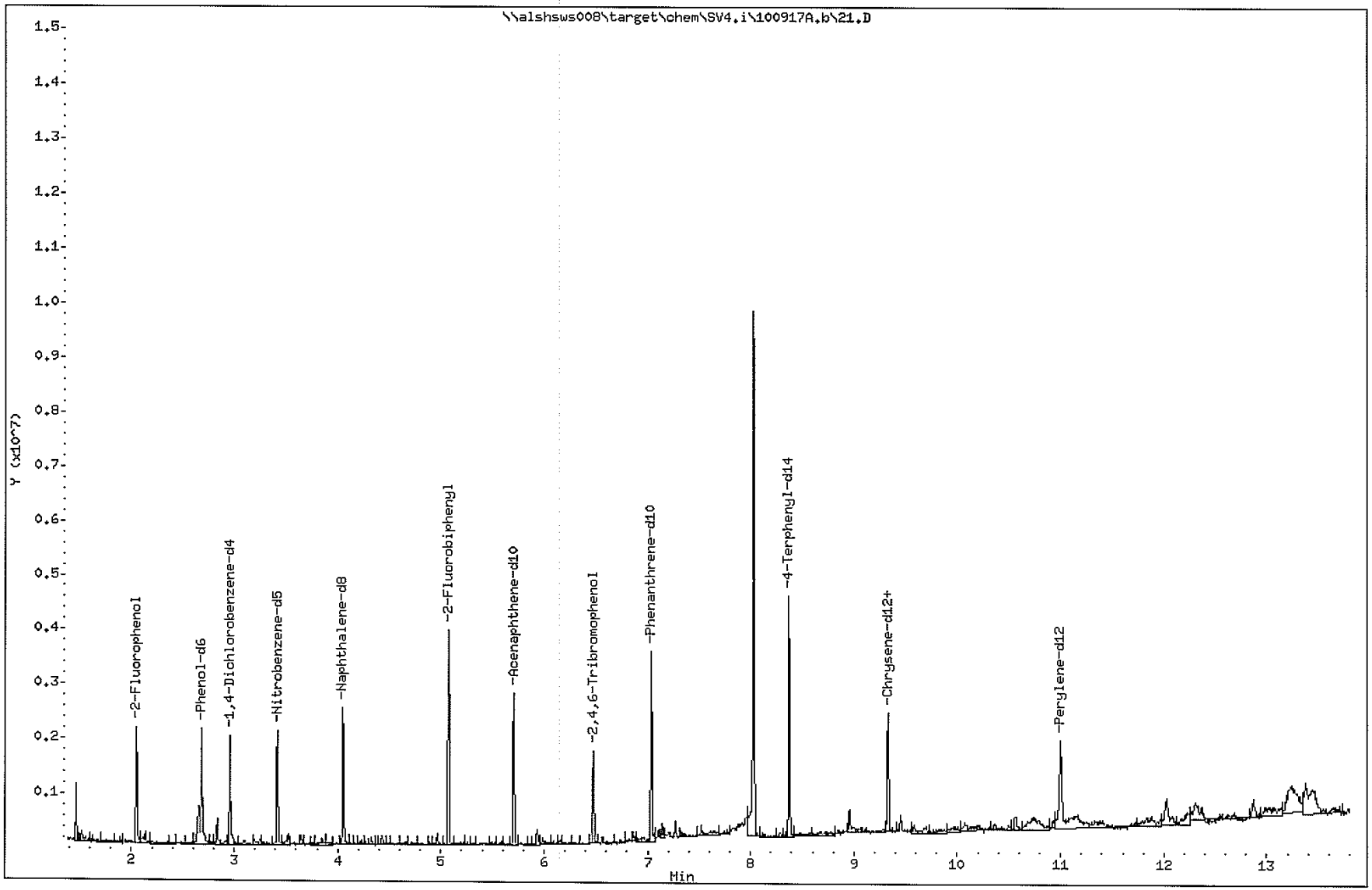
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 20 1,4-Dichlorobenzene-d4	152	2.959	2.959	(1.000)	231792	2.00000	
$ 9 2-Fluorophenol	112	2.050	2.055	(0.693)	434268	2.58589	100.27
$ 13 Phenol-d6	99	2.681	2.681	(0.906)	602425	2.75820	106.96
* 45 Naphthalene-d8	136	4.050	4.050	(1.000)	918850	2.00000	
$ 33 Nitrobenzene-d5	82	3.419	3.419	(0.844)	550080	2.83476	109.92
* 86 Acenaphthene-d10	164	5.708	5.708	(1.000)	483621	2.00000	
$ 69 2-Fluorobiphenyl	172	5.077	5.077	(0.889)	950379	2.84602	110.36
* 126 Phenanthrene-d10	188	7.035	7.034	(1.000)	733555	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.473	6.473	(1.134)	119249	3.05159	118.33
* 182 Chrysene-d12	240	9.329	9.334	(1.000)	523380	2.00000	
$ 158 4-Terphenyl-d14	244	8.372	8.372	(0.897)	690696	3.34225	129.60
* 198 Perylene-d12	264	10.998	11.003	(1.000)	522686	2.00000	
184 bis(2-ethylhexyl)phthalate	149	9.452	9.457	(1.013)	88184	0.21686	8.40

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\21.D
Date : 18-SEP-2010 01:32
Client ID: 1009543-06C
Sample Info: 1009543-06C;1009543-06C

Instrument: SV4.i

Operator: lg
Column diameter: 0.28

Column phase: RTX-5SIL MS



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Date : 18-SEP-2010 01:32

Client ID: 1009543-06C

Instrument: SV4.i

Sample Info: 1009543-06C;1009543-06C

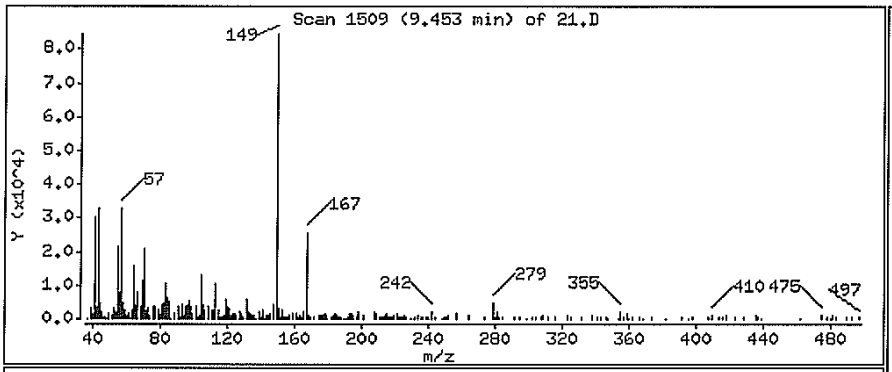
Operator: lg

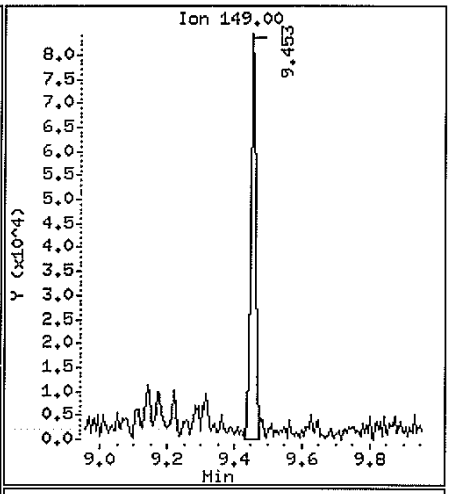
Column phase: RTX-5SIL MS

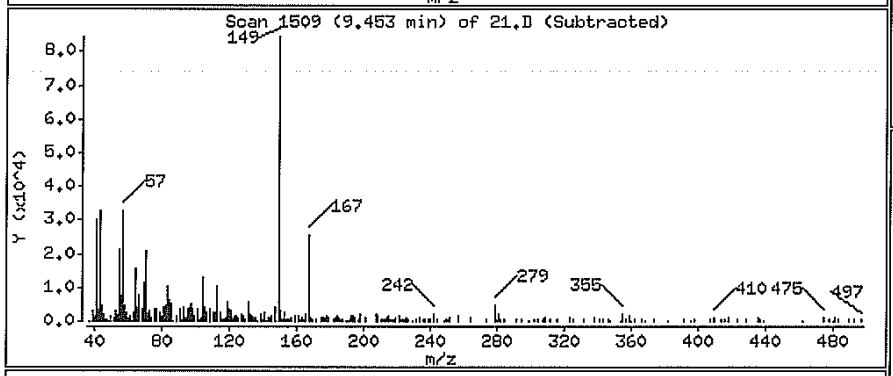
Column diameter: 0.28

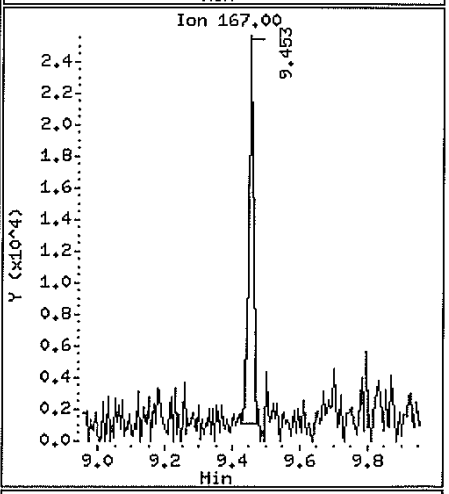
184 bis(2-ethylhexyl)phthalate

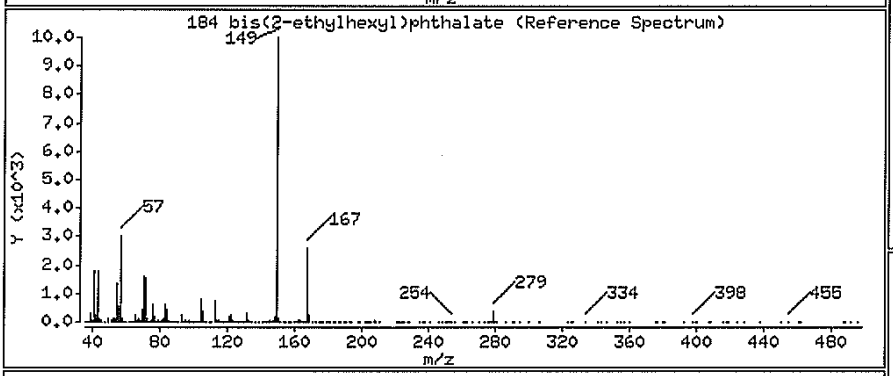
Concentration: 8.40 ug/Kg

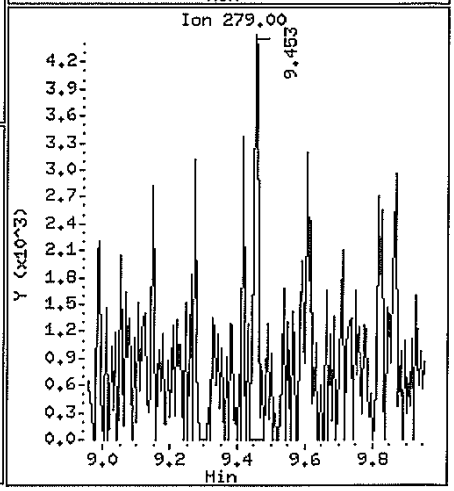


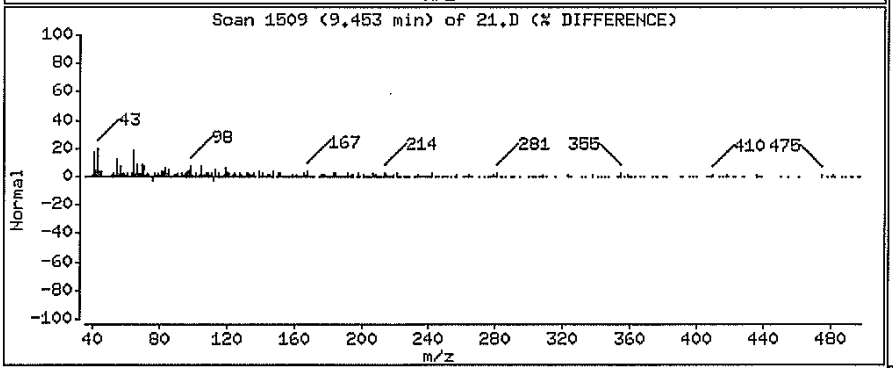












ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100917A.b\22.D
Lab Smp Id: 1009543-09C Client Smp ID: 1009543-09C
Inj Date : 18-SEP-2010 01:51 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : 1009543-09C;1009543-09C
Misc Info : 1009537;2;0;1;;;;;30.01
Comment :
Method : \\alshsws008\target\chem\SV4.i\100917A.b\R8270DLL.m
Meth Date : 23-Sep-2010 13:52 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

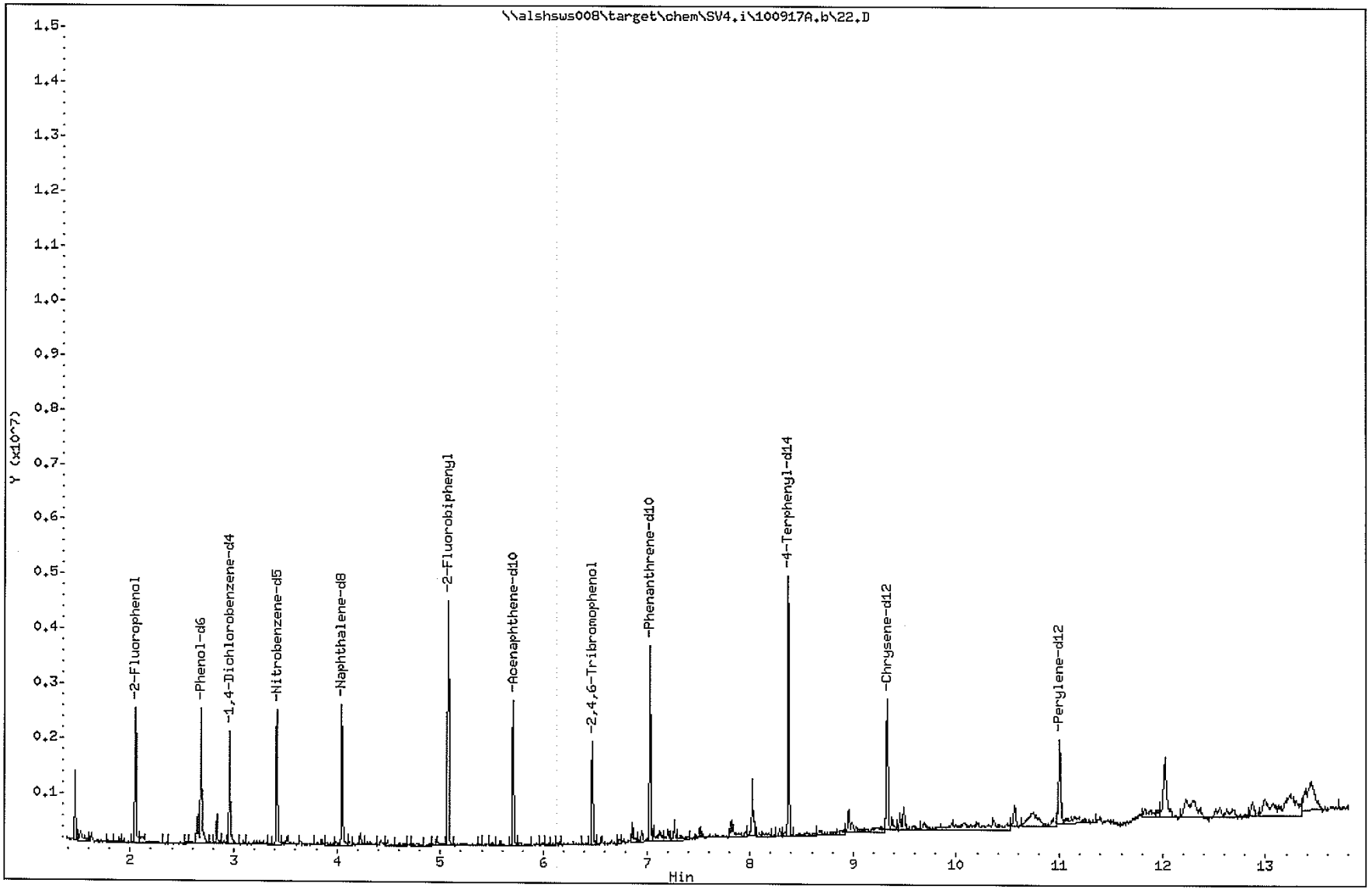
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Ws	30.010	Weight of sample extracted (g)
M	19.100	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 20 1,4-Dichlorobenzene-d4	152	2.959	2.959	(1.000)	238844	2.00000	
$ 9 2-Fluorophenol	112	2.050	2.055	(0.693)	519389	3.00144	123.62
$ 13 Phenol-d6	99	2.681	2.681	(0.906)	718729	3.19354	131.53
* 45 Naphthalene-d8	136	4.050	4.050	(1.000)	922791	2.00000	
$ 33 Nitrobenzene-d5	82	3.419	3.419	(0.844)	630727	3.23648	133.30
* 86 Acenaphthene-d10	164	5.708	5.708	(1.000)	458239	2.00000	
$ 69 2-Fluorobiphenyl	172	5.077	5.077	(0.889)	1091220	3.44879	142.05
* 126 Phenanthrene-d10	188	7.035	7.034	(1.000)	765946	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.473	6.473	(1.134)	131674	3.55618	146.47
* 182 Chrysene-d12	240	9.329	9.334	(1.000)	562159	2.00000	
$ 158 4-Terphenyl-d14	244	8.372	8.372	(0.897)	771167	3.47422	143.10
* 198 Perylene-d12	264	11.003	11.003	(1.000)	537012	2.00000	
184 bis(2-ethylhexyl)phthalate	149	9.458	9.457	(1.014)	97407	0.22302	9.18

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\22.D
Date : 18-SEP-2010 01:51
Client ID: 1009543-09C
Sample Info: 1009543-09C;1009543-09C

Instrument: SV4.i
Operator: lg
Column diameter: 0.28

Column phase: RTX-5SIL MS



Data File: \\alshsws008\target\chem\SV4.i\100917A.b\22.D

Date : 18-SEP-2010 01:51

Client ID: 1009543-09C

Instrument: SV4.i

Sample Info: 1009543-09C;1009543-09C

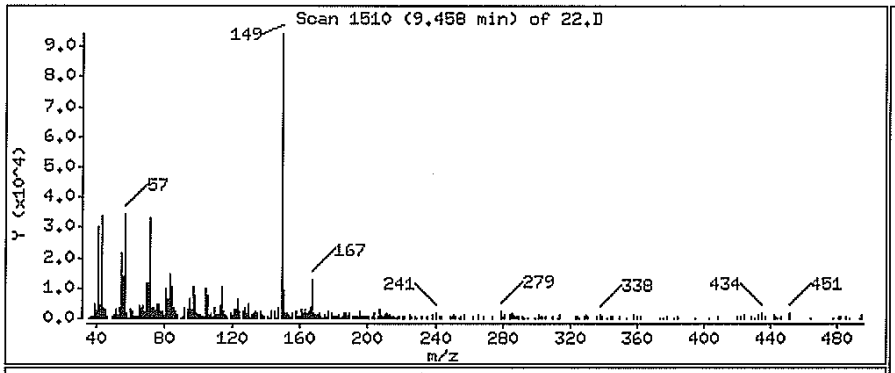
Operator: lg

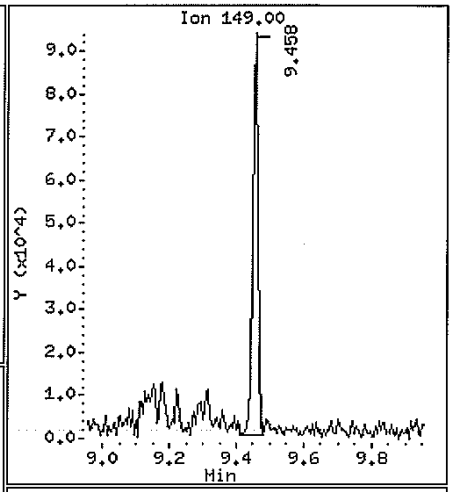
Column phase: RTX-5SIL MS

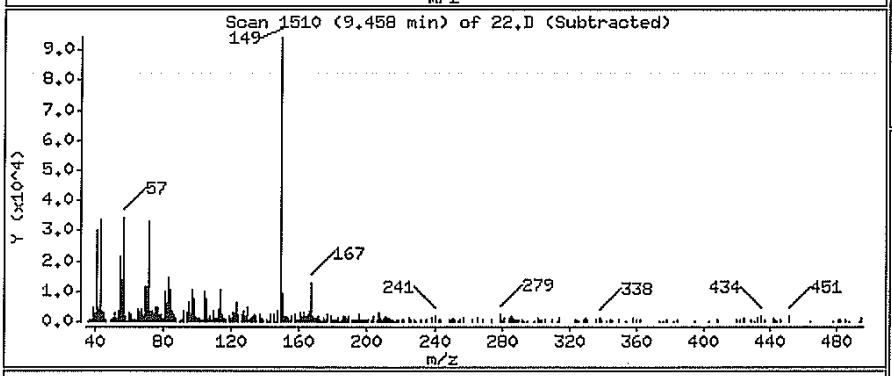
Column diameter: 0.28

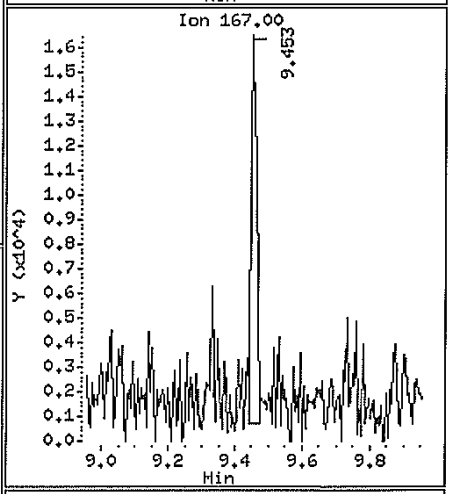
184 bis(2-ethylhexyl)phthalate

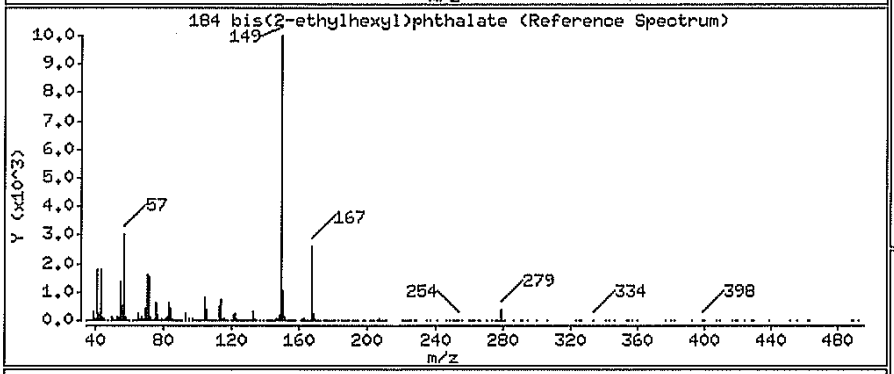
Concentration: 9.18 ug/Kg

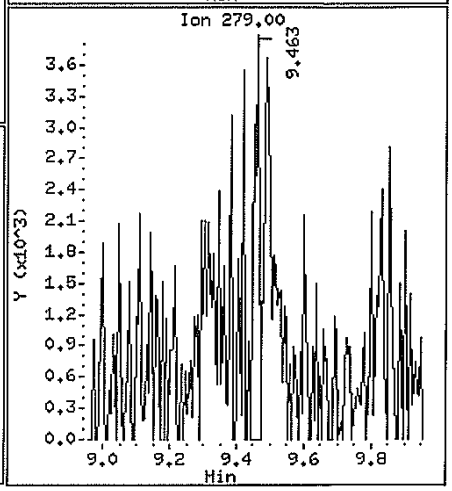


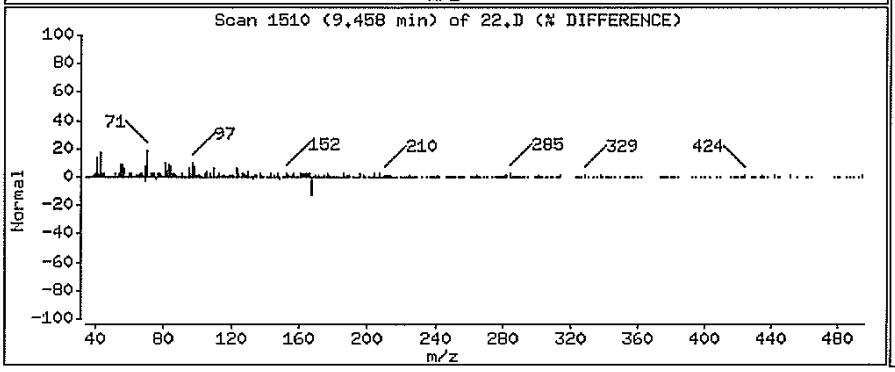












ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100917A.b\23.D
Lab Smp Id: 1009543-12C Client Smp ID: 1009543-12C
Inj Date : 18-SEP-2010 02:11 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : 1009543-12C;1009543-12C
Misc Info : 1009537;2;0;1;;;500;;15.02
Comment :
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Meth Date : 23-Sep-2010 13:52 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Ws	15.020	Weight of sample extracted (g)
M	60.100	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 20 1,4-Dichlorobenzene-d4	152	2.959	2.959	(1.000)	184306	2.00000	
$ 9 2-Fluorophenol	112	2.050	2.055	(0.693)	433322	3.24506	270.73
$ 13 Phenol-d6	99	2.681	2.681	(0.906)	620247	3.57146	297.97
* 45 Naphthalene-d8	136	4.050	4.050	(1.000)	756177	2.00000	
$ 33 Nitrobenzene-d5	82	3.419	3.419	(0.844)	536672	3.36063	280.38
* 86 Acenaphthene-d10	164	5.708	5.708	(1.000)	430525	2.00000	
$ 69 2-Fluorobiphenyl	172	5.077	5.077	(0.889)	932380	3.13647	261.67
* 126 Phenanthrene-d10	188	7.035	7.034	(1.000)	654069	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.473	6.473	(1.134)	105535	3.03371	253.10
* 182 Chrysene-d12	240	9.318	9.334	(1.000)	485339	2.00000	
$ 158 4-Terphenyl-d14	244	8.366	8.372	(0.898)	739137	3.85699	321.79
* 198 Perylene-d12	264	10.987	11.003	(1.000)	438775	2.00000	
46 Naphthalene	128	4.071	4.071	(1.005)	160807	0.38358	32.00
61 2-Methylnaphthalene	141	4.719	4.718	(1.165)	54210	0.23733	19.80
88 Acenaphthene	154	5.740	5.740	(1.006)	73550	0.28799	24.02
92 Dibenzofuran	168	5.906	5.906	(1.035)	60863	0.16598	13.84(a)
98 Fluorene	166	6.238	6.238	(1.093)	44312	0.14735	12.29(a)
128 Phenanthrene	178	7.051	7.050	(1.002)	55271	0.14333	11.95(a)
184 bis(2-ethylhexyl)phthalate	149	9.447	9.457	(1.014)	133438	0.35387	29.52

QC Flag Legend

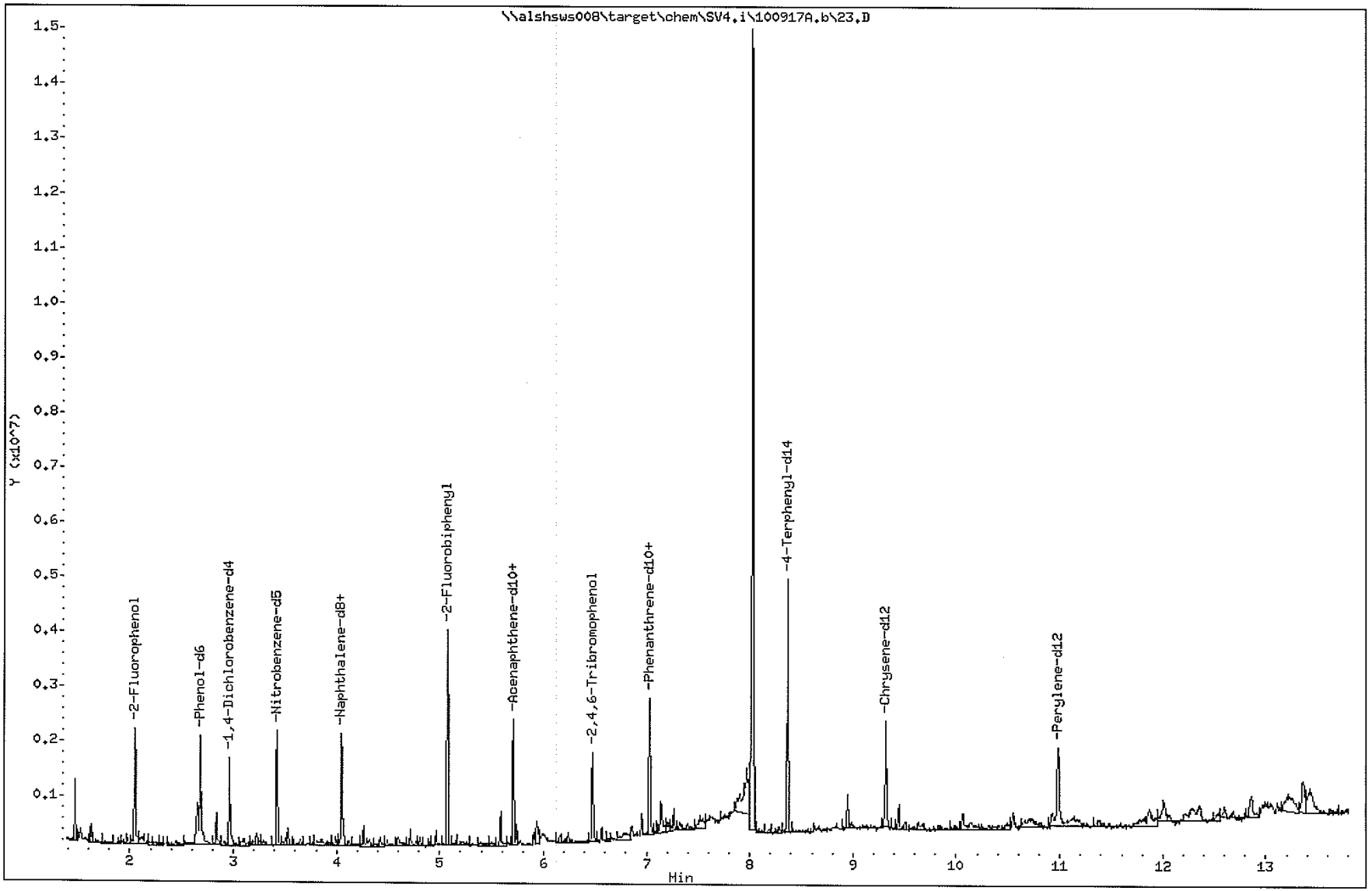
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\alshsws008\target\chem\SV4.i\100917A.b\23.D
Date : 18-SEP-2010 02:11
Client ID: 1009543-12C
Sample Info: 1009543-12C;1009543-12C

Instrument: SV4.i

Operator: lg
Column diameter: 0.28

Column phase: RTX-5SIL MS



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Date : 18-SEP-2010 02:11

Client ID: 1009543-12C

Instrument: SV4.i

Sample Info: 1009543-12C;1009543-12C

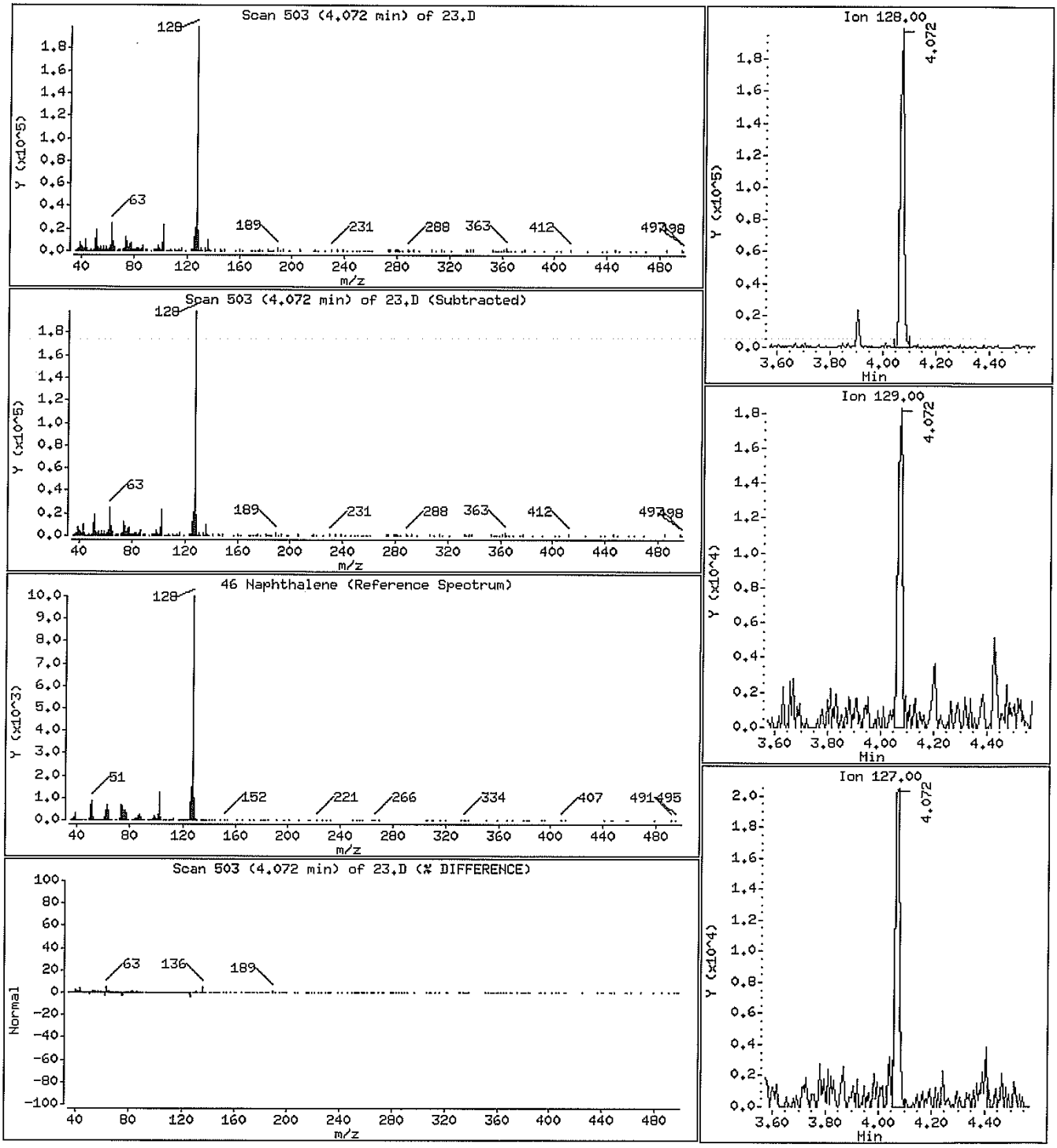
Operator: lg

Column phase: RTX-5SIL MS

Column diameter: 0.28

46 Naphthalene

Concentration: 32.00 ug/Kg



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Page 5

Date : 18-SEP-2010 02:11

Client ID: 1009543-12C

Instrument: SV4.i

Sample Info: 1009543-12C;1009543-12C

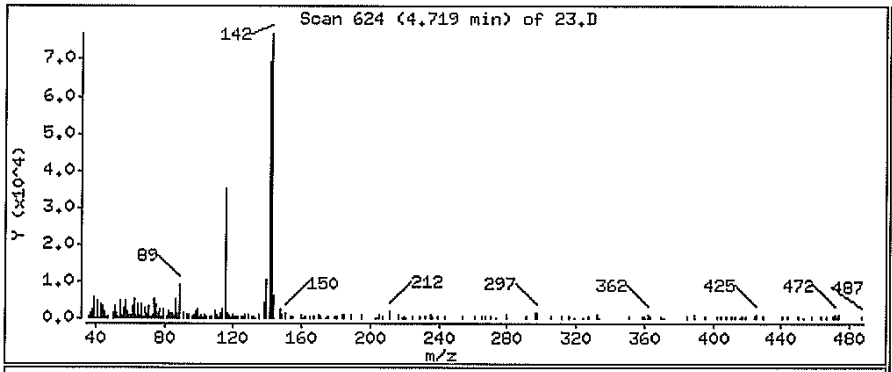
Operator: lg

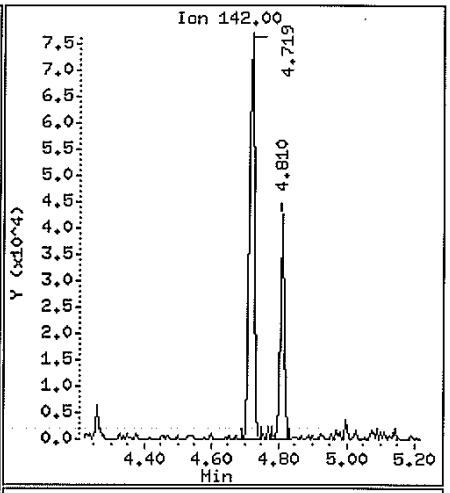
Column phase: RTX-5SIL MS

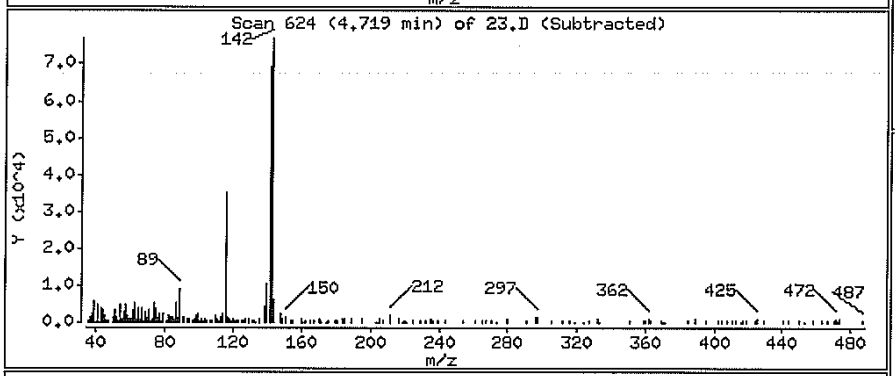
Column diameter: 0.28

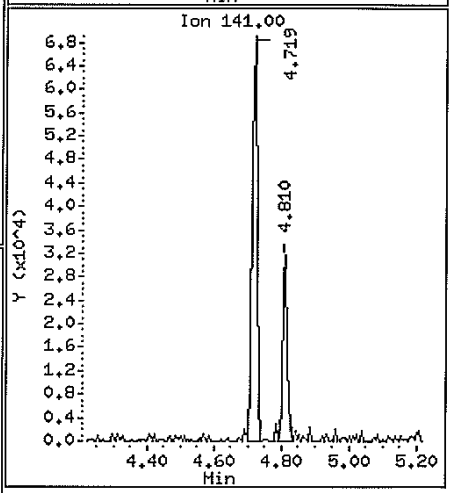
61 2-Methylnaphthalene

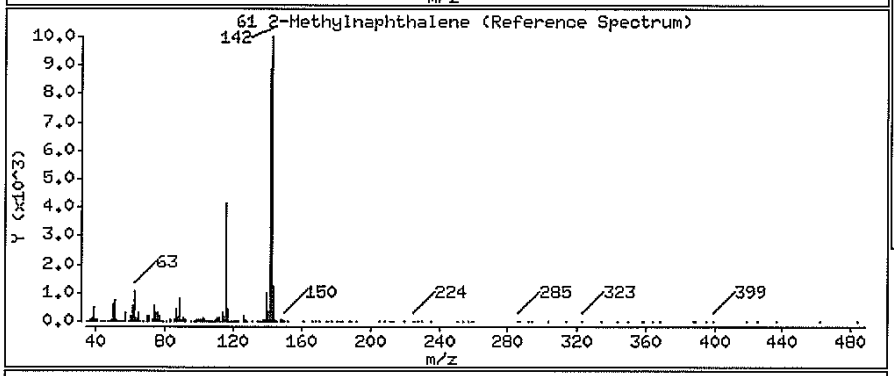
Concentration: 19.80 ug/Kg

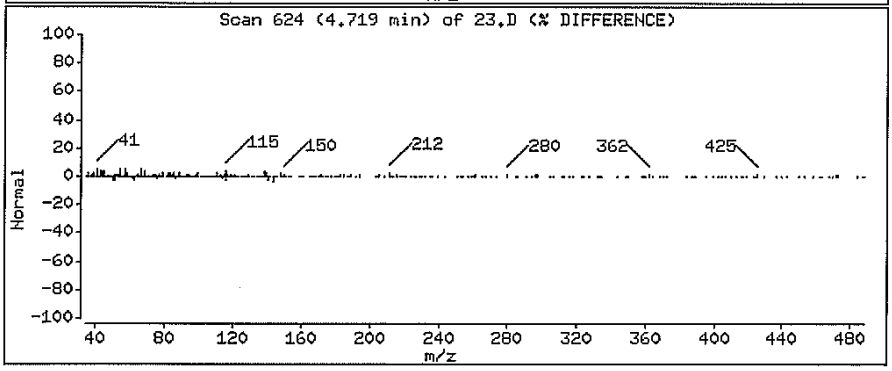












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Date : 18-SEP-2010 02:11

Client ID: 1009543-12C

Instrument: SV4.i

Sample Info: 1009543-12C;1009543-12C

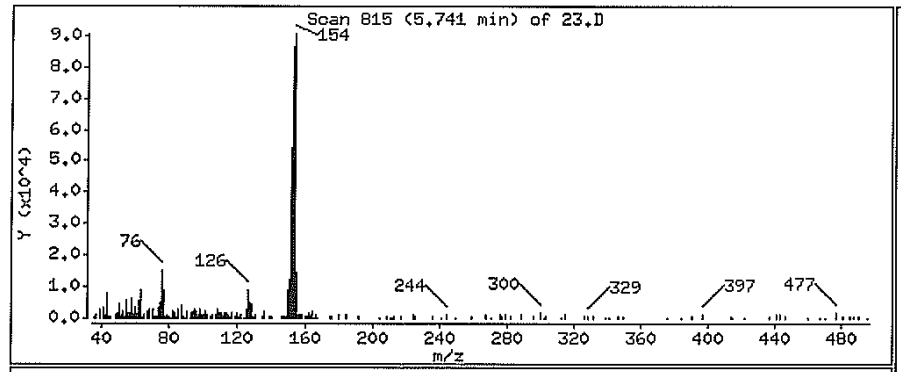
Operator: lg

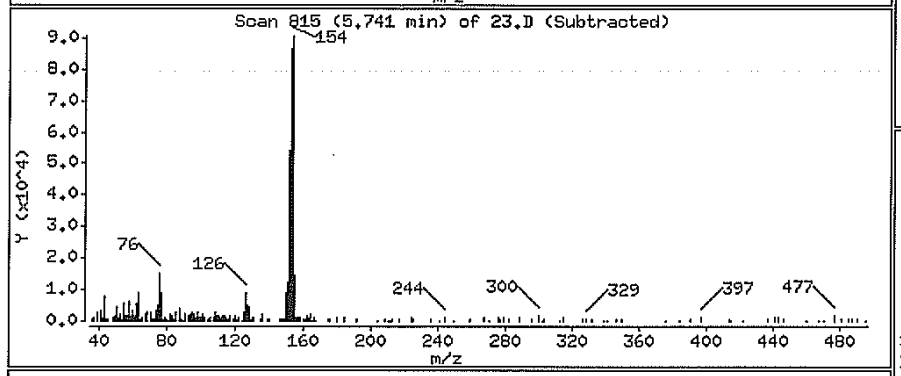
Column phase: RTX-5SIL MS

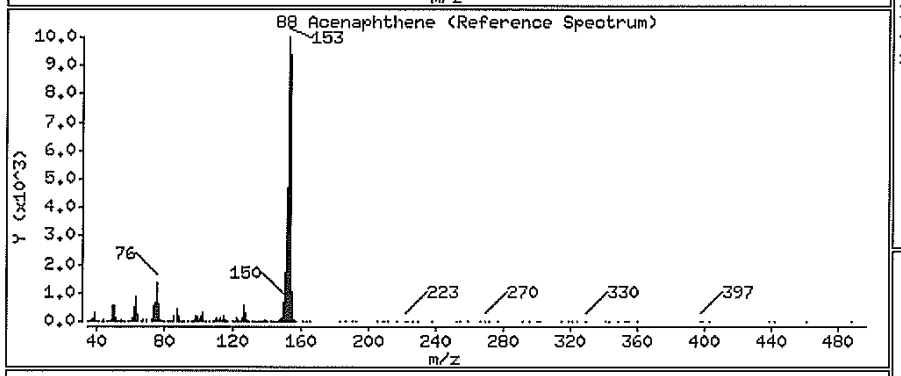
Column diameter: 0.28

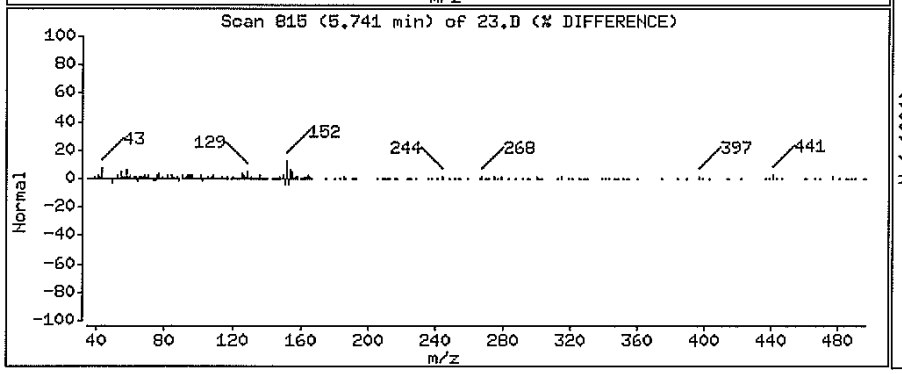
88 Acenaphthene

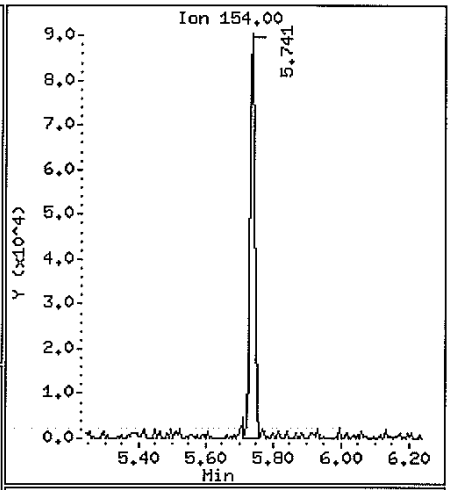
Concentration: 24.02 ug/Kg

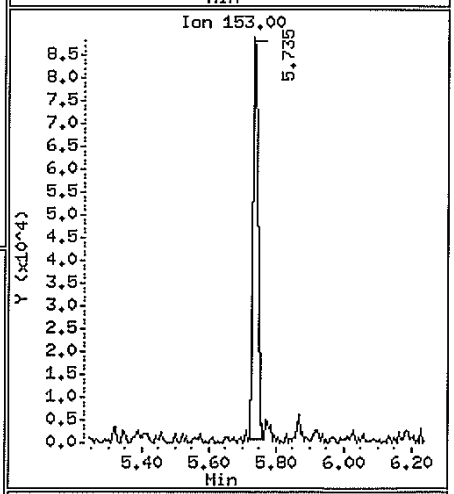


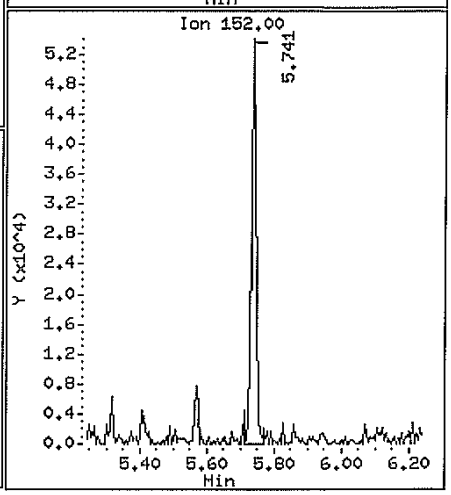












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Date : 18-SEP-2010 02:11

Client ID: 1009543-12C

Instrument: SV4.i

Sample Info: 1009543-12C;1009543-12C

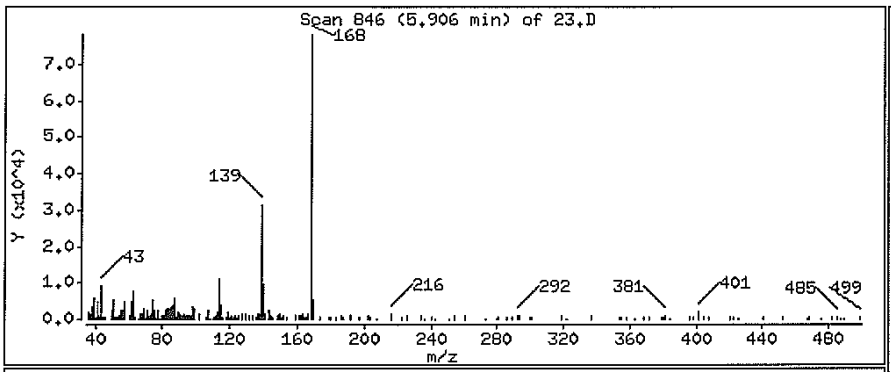
Operator: lg

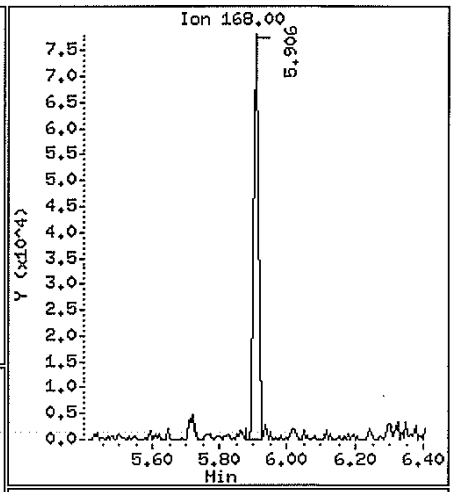
Column phase: RTX-5SIL MS

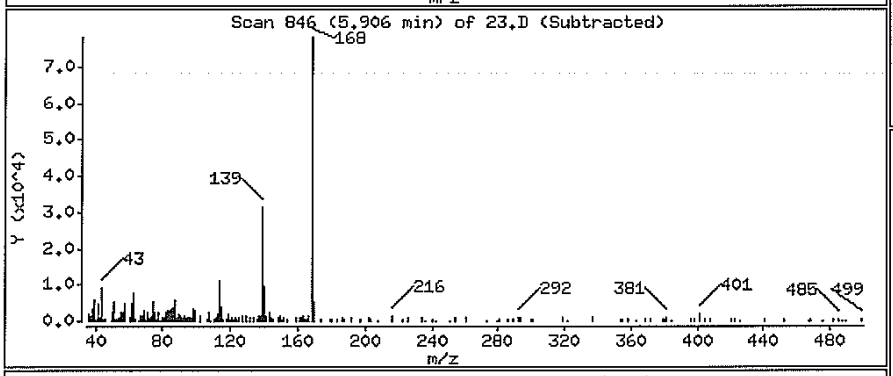
Column diameter: 0.28

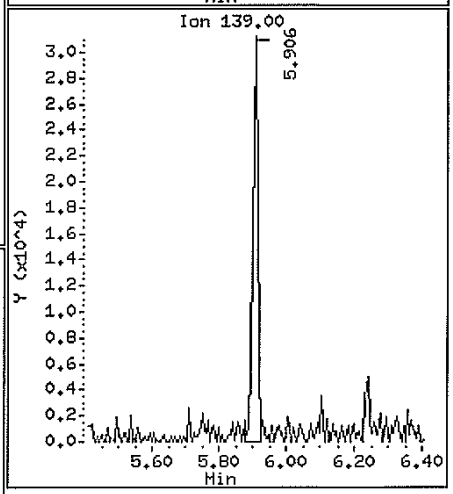
92 Dibenzofuran

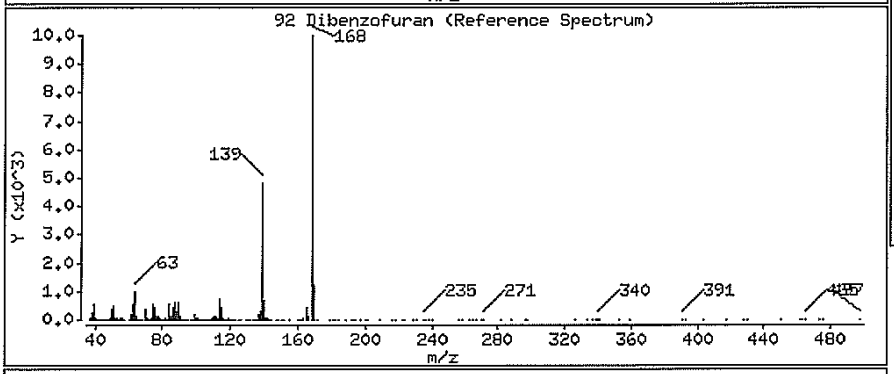
Concentration: 13.84 ug/Kg

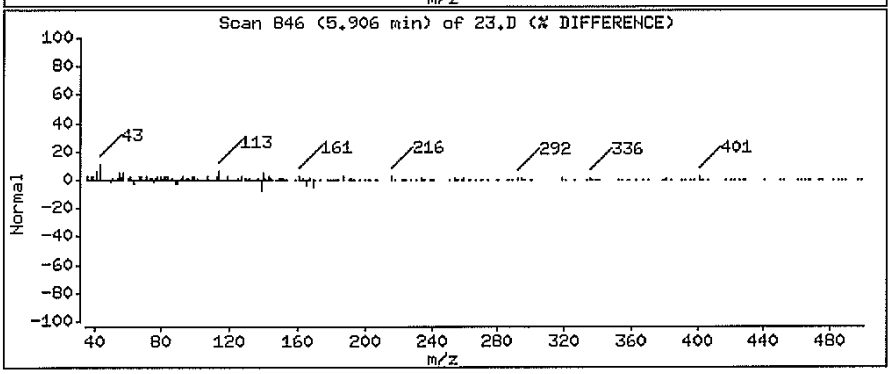












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Date : 18-SEP-2010 02:11

Client ID: 1009543-12C

Instrument: SV4.i

Sample Info: 1009543-12C;1009543-12C

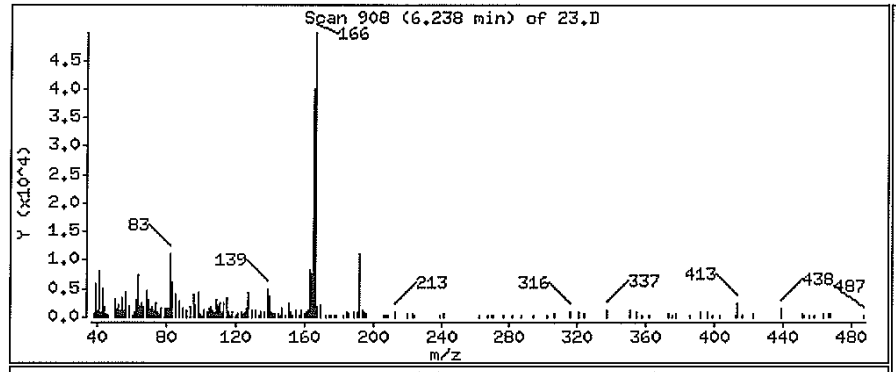
Operator: lg

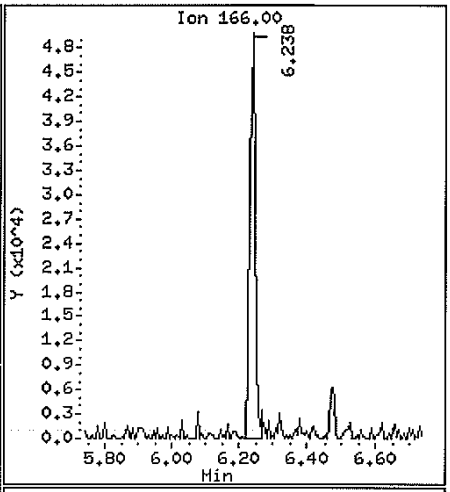
Column phase: RTX-5SIL MS

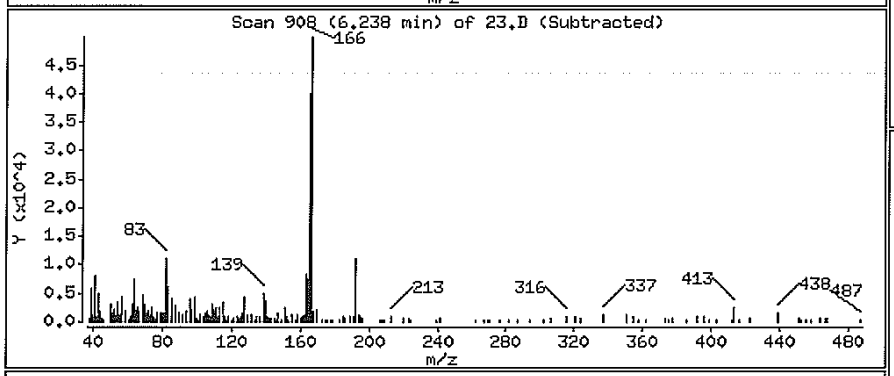
Column diameter: 0.28

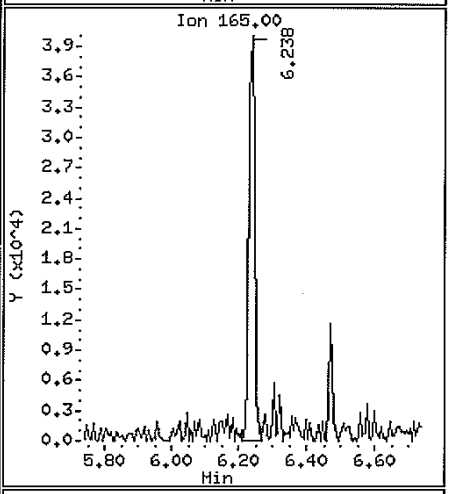
98 Fluorene

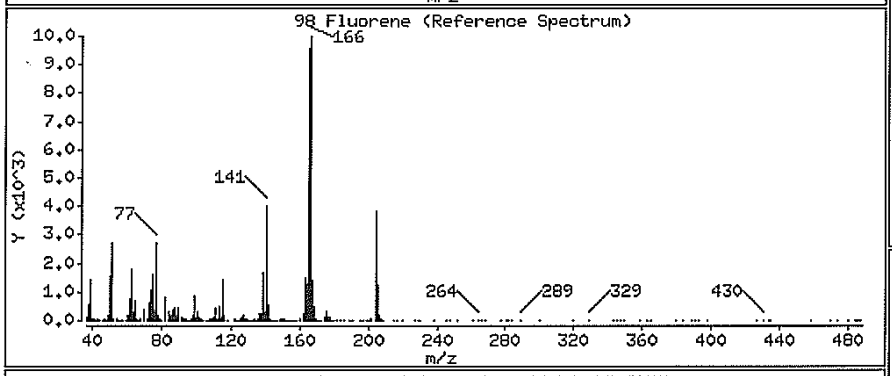
Concentration: 12.29 ug/Kg

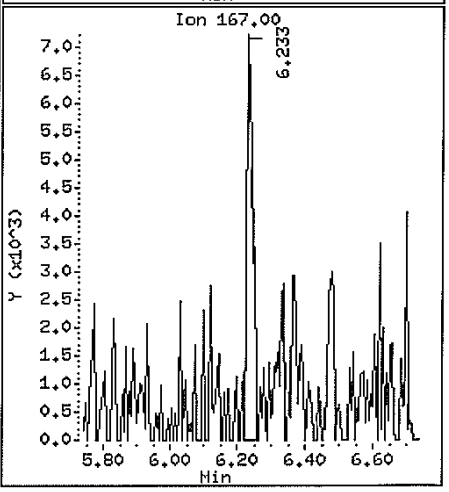


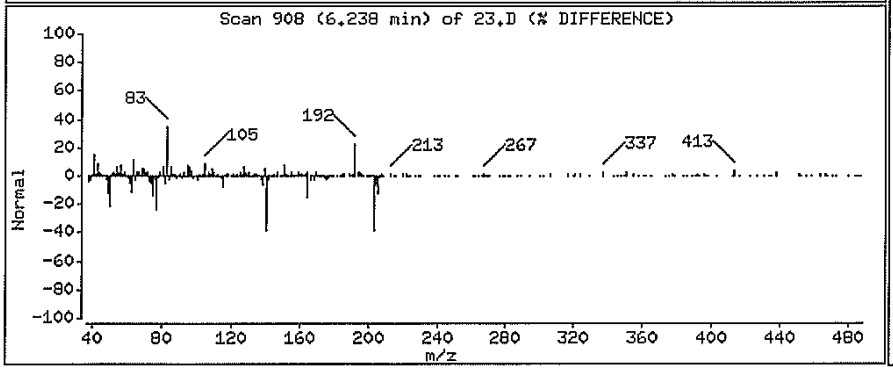












Data File: \\alshsws008\target\chem\SV4.i\100917A.b\23.D

Date : 18-SEP-2010 02:11

Client ID: 1009543-12C

Instrument: SV4.i

Sample Info: 1009543-12C;1009543-12C

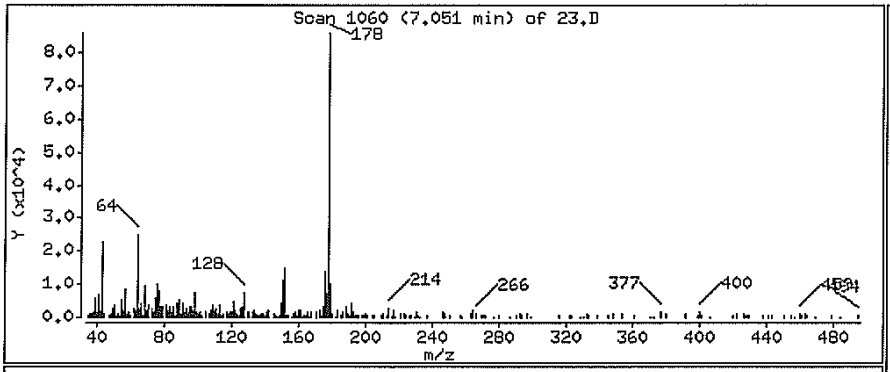
Operator: lg

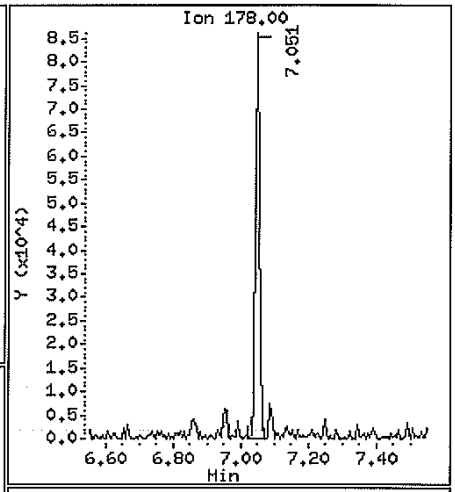
Column phase: RTX-5SIL MS

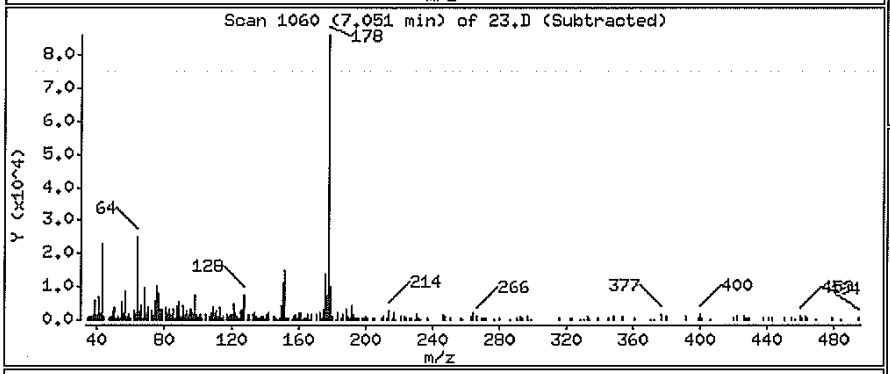
Column diameter: 0.28

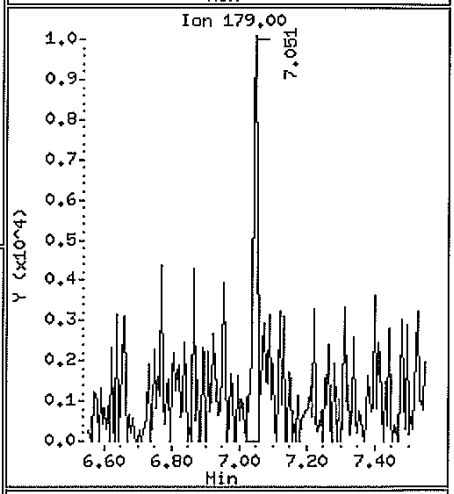
128 Phenanthrene

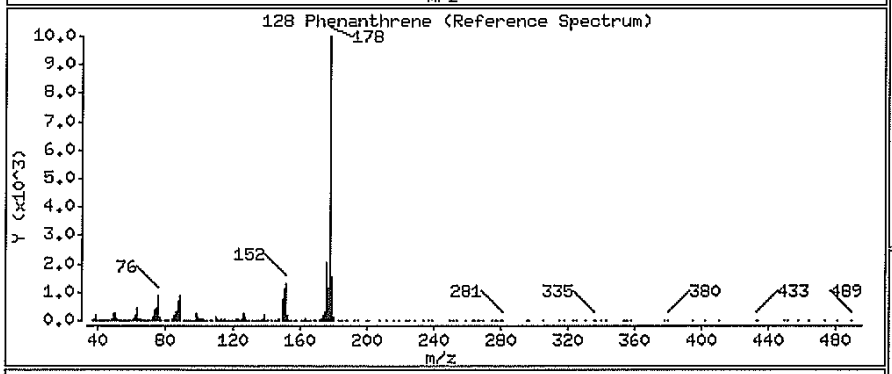
Concentration: 11.95 ug/Kg

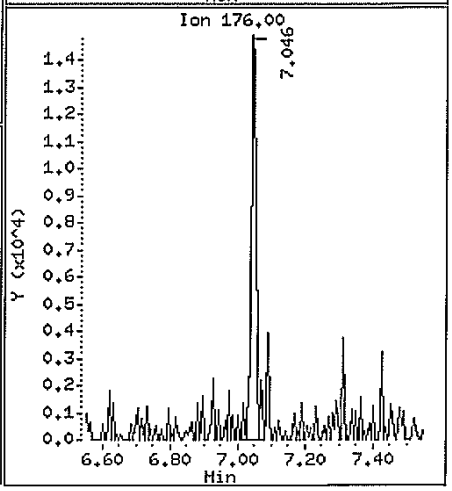


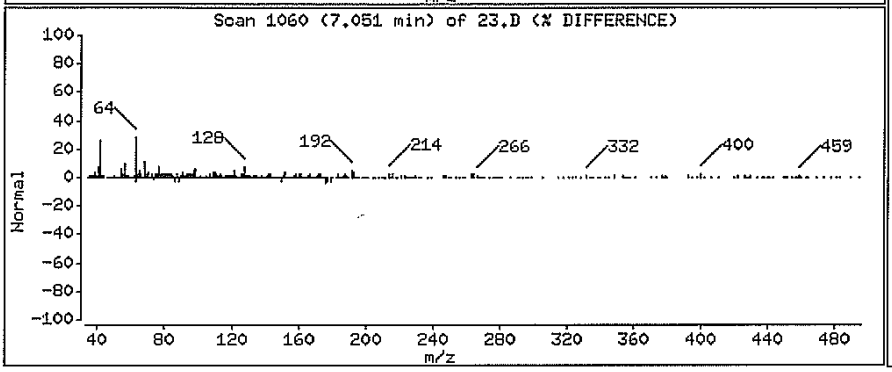












Data File: \\alshsws008\target\chem\SV4.i\100917A.b\23.D

Date : 18-SEP-2010 02:11

Client ID: 1009543-12C

Instrument: SV4.i

Sample Info: 1009543-12C;1009543-12C

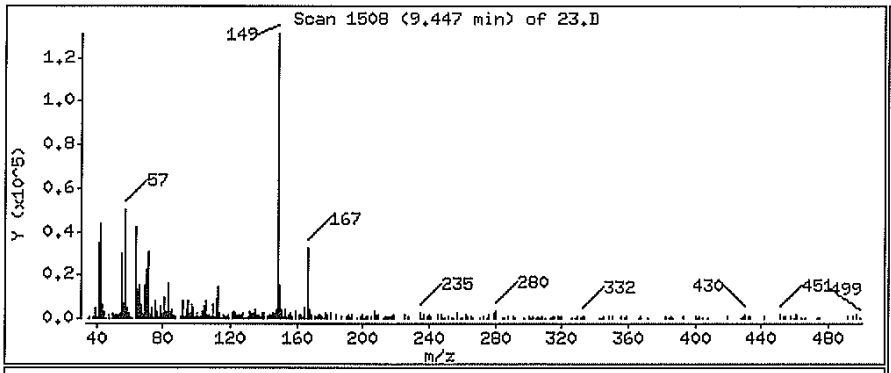
Operator: lg

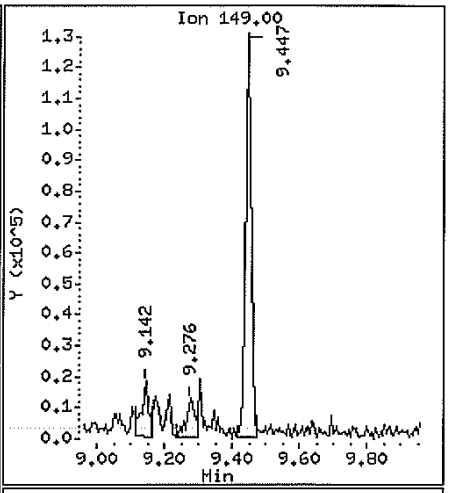
Column phase: RTX-5SIL MS

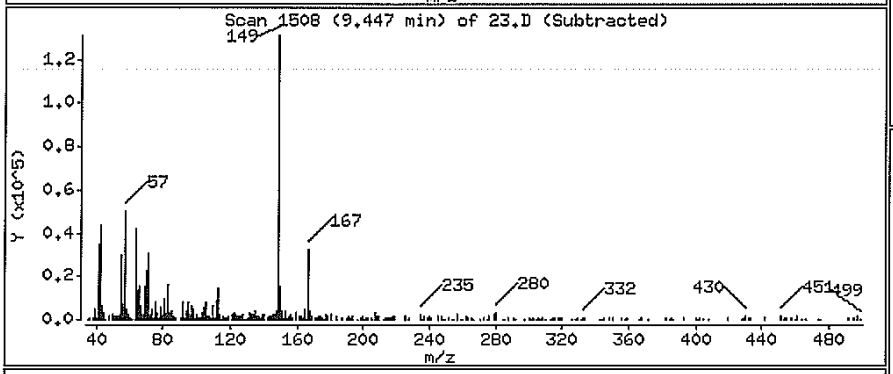
Column diameter: 0.28

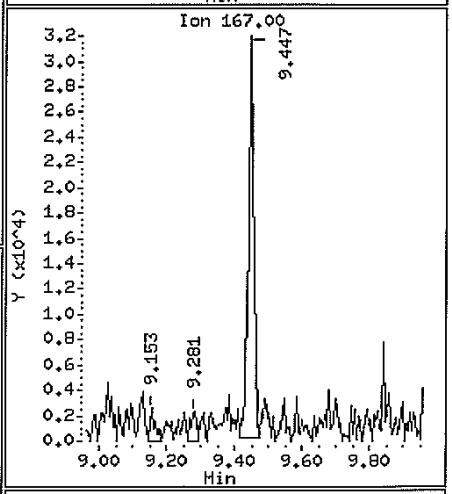
184 bis(2-ethylhexyl)phthalate

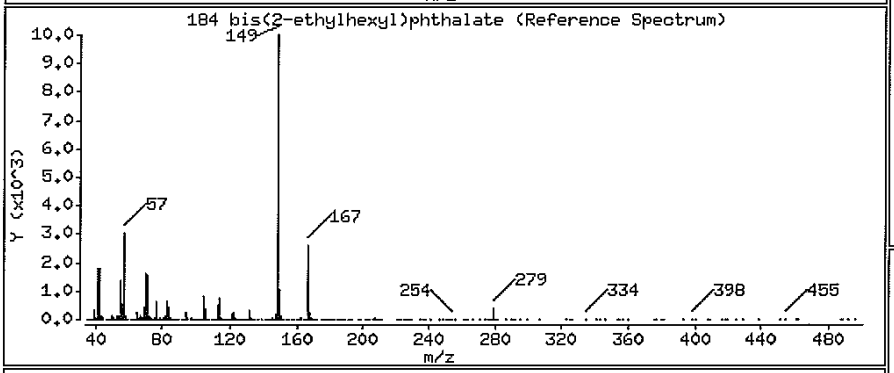
Concentration: 29.52 ug/Kg

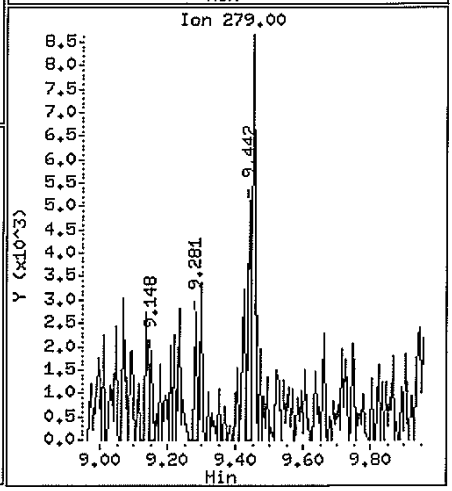


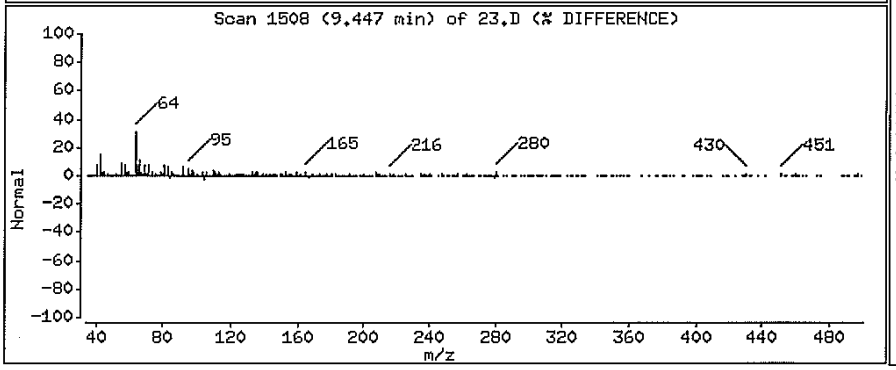












ALS Laboratory Group

GC/MS SV #4 Instrument Run Log

Logbook # 23114

Sequence # 100918

RPM: ✓ | IS ID: 22717-31-08 | Method: 8270D / E625 / CLP / Others | SOP #: MSSV-001 / MSSV-003

CAL STD ID: 22717-31-01 | DFTPP ID: 22717-30-07

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
1	DFTPP	50ng					9/18/10	12:15	✓	LG	
2	SLSTD25	25ppm						12:29	NW		
3	SLSTD25	2.5ppm						13:14	✓		
4	1009537	SBLKS2-100917	Soil	30g	1mL	4		13:43	✓		
5		03D		15.05g	0.5mL			14:02	✓		
6		08D		30g	1.0mL			14:22	✓		
7	1009582	SBLKS2-100918		30g				14:44	✓	LG	
8		SLCSS2-100918		30g				15:00	XI	LG	
9	1009479	01D	Water	1000ml				15:20	✓		confirmation
10	1009505	10C	Soil	30.06g				15:41	✓		
11		24C		30.06g				16:00	XD		
12		24C		30.06g		5		16:19	✓		
13	1009582	08D		15.06g	0.5ml	1		16:39	✓		
14		08DMS		15.09g				16:58	✓		
15		08DMSD		15.05g				17:18	✓		
16		01D		15.01g				17:37	✓		
17		03D		15.03g				17:57	✓		
18		05D		15g				18:16	XI		
19		09D		15.07g				18:36	✓		
20	1009505	29D		30.06g	1mL			18:55	✓		
21		29DMS		30.09g				19:15	✓		
22		29DMSD		30.01g				19:34	XI		
23	1009523	02A		30.05g				19:54	✓		
24		03A		30.01g				20:13	✓		
25		04A		30.06g				20:32	✓		

IS1/1,4-dichlorobenzene-$_{d4}$: 213733 | IS2/naphthalene-$_{d8}$: 745541 | IS3/acenaphthene-$_{d10}$: 3602268

IS4/phenanthrene-$_{d10}$: 531232 | IS5/chrysene-$_{d12}$: 415432 | IS6/perylene-$_{d12}$: 370547

DFTPP resp: 8949155 | DDD resp: 0 | DDE resp: 0 | PCP Resp: 5373204 | PCP Tailing: 1.50 (< 2.0 %)

DDT resp: 9403579 | % Breakdown: 0 (< 20 %) | Benz. Resp: 11276696 | Benz. Tailing: 0.80 (< 2.0 %)

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ALS Laboratory Group **GC/MS SV #4 Instrument Run Log** **Logbook # 23114**

Sequence # 100918 cont		Method: 8270D / E625 / CLP / Others	SOP #: MSSV-001 / MSSV-003 LL
RPM: VRM	IS ID: 22717-31-08	CAL STD ID: 22717-31-01	DFTPP ID: 22717-30-07

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
26 ~~1~~	1009523	01A	soil	30.03g	1 ml	4	9/18/10	20:52	✓	[illegible]	
27 ~~2~~	↓	05A	↓	30.02g	↓		↓	21:11	✓	↓	
28 ~~3~~	1009505	02C	↓	30.01g	↓	5	↓	21:31	XI	↓	
29 ~~4~~	↓	17C	↓	30.05g	↓	10	↓	21:50	✓	↓	
30 ~~5~~	↓	19C	↓	30.07g	↓	5	↓	22:10	✓	↓	
31 ~~6~~	↓	20C	↓	30.04g	↓	4	↓	22:29	XI	↓	
32 ~~7~~	↓	21C	↓	30.03g	↓		↓	22:49	XI	↓	
33 ~~8~~	↓	31C	↓	30.05g	↓	5	↓	23:08	XI	↓	
34 ~~9~~	↓	26C	↓	30.02g	↓	5	↓	23:27	✓	↓	
35 ~~10~~	↓	23C	↓	30.08g	↓	20	↓	23:47	XI	↓	
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

IS1/1,4-dichlorobenzene-$_{d4}$:		IS2/naphthalene-$_{d8}$:		IS3/acenaphthene-$_{d10}$:
IS4/phenanthrene-$_{d10}$:		IS5/chrysene-$_{d12}$:		IS6/perylene-$_{d12}$:
DFTPP resp:	DDD resp:	DDE resp:	PCP Resp:	PCP Tailing : (< 2.0 %)
DDT resp:	% Breakdown:	(< 20 %)	Benz. Resp:	Benz. Tailing: (< 2.0 %)

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FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV4 Calibration Date: 09/18/10 Time: 1314

Lab File ID: 03 Init. Calib. Date(s): 09/13/10 09/13/10

Init. Calib. Times: 1021 1305

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	SAMPLE AMOUNT	CAL2.5 AMOUNT	CURVE	%D	MAX %d
Phenol	2.67	2.50	AVRG	6.8	20.0
Bis(2-chloroethyl)ether	2.54	2.50	AVRG	1.6	20.0
2-Chlorophenol	2.26	2.50	AVRG	9.6	20.0
2-Methylphenol	2.38	2.50	AVRG	4.8	20.0
bis(2-Chloroisopropyl)ether	2.30	2.50	AVRG	8.0	20.0
3&4-Methylphenol	2.25	2.50	AVRG	10.0	20.0
N-Nitroso-di-n-propylamine	2.25	2.50	AVRG	10.0	20.0
Hexachloroethane	2.23	2.50	AVRG	10.8	20.0
Nitrobenzene	2.41	2.50	AVRG	3.6	20.0
Isophorone	2.50	2.50	AVRG	0.0	20.0
2-Nitrophenol	2.54	2.50	AVRG	1.6	20.0
2,4-Dimethylphenol	2.36	2.50	AVRG	5.6	20.0
Bis(2-chloroethoxy)methane	2.32	2.50	AVRG	7.2	20.0
2,4-Dichlorophenol	2.43	2.50	AVRG	2.8	20.0
Naphthalene	2.46	2.50	AVRG	1.6	20.0
4-Chloroaniline	2.19	2.50	AVRG	12.4	20.0
Hexachlorobutadiene	2.34	2.50	AVRG	6.4	20.0
4-Chloro-3-Methylphenol	2.30	2.50	AVRG	8.0	20.0
2-Methylnaphthalene	2.46	2.50	AVRG	1.6	20.0
Hexachlorocyclopentadiene	2.00	2.50	AVRG	20.0	20.0
2,4,6-Trichlorophenol	2.74	2.50	AVRG	9.6	20.0
2,4,5-Trichlorophenol	2.48	2.50	AVRG	0.8	20.0
2-Chloronaphthalene	2.53	2.50	AVRG	1.2	20.0
2-Nitroaniline	2.37	2.50	AVRG	5.2	20.0
Dimethylphthalate	2.54	2.50	AVRG	1.6	20.0
Acenaphthylene	2.48	2.50	AVRG	0.8	20.0
2,6-Dinitrotoluene	2.61	2.50	AVRG	4.4	20.0
3-Nitroaniline	2.61	2.50	AVRG	4.4	20.0
Acenaphthene	2.44	2.50	AVRG	2.4	20.0
2,4-Dinitrophenol	2.27	2.50	2ORDR	9.2	20.0
Dibenzofuran	2.48	2.50	AVRG	0.8	20.0
4-Nitrophenol	2.44	2.50	AVRG	2.4	20.0
2,4-Dinitrotoluene	2.64	2.50	AVRG	5.6	20.0
Diethylphthalate	2.48	2.50	AVRG	0.8	20.0
4-Chlorophenyl phenyl ether	2.51	2.50	AVRG	0.4	20.0
Fluorene	2.59	2.50	AVRG	3.6	20.0
4-Nitroaniline	2.16	2.50	AVRG	13.6	20.0

FORM VII SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV4 Calibration Date: 09/18/10 Time: 1314

Lab File ID: 03 Init. Calib. Date(s): 09/13/10 09/13/10

Init. Calib. Times: 1021 1305

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	SAMPLE AMOUNT	CAL2.5 AMOUNT	CURVE	%D	MAX %d
4,6-Dinitro-2-methylphenol	2.44	2.50	AVRG	2.4	20.0
N-Nitrosodiphenylamine	2.38	2.50	AVRG	4.8	20.0
4-Bromophenyl-phenylether	2.68	2.50	AVRG	7.2	20.0
Hexachlorobenzene	2.55	2.50	AVRG	2.0	20.0
Pentachlorophenol	2.32	2.50	2ORDR	7.2	20.0
Phenanthrene	2.46	2.50	AVRG	1.6	20.0
Anthracene	2.51	2.50	AVRG	0.4	20.0
Carbazole	2.48	2.50	AVRG	0.8	20.0
Di-n-butylphthalate	2.73	2.50	AVRG	9.2	20.0
Fluoranthene	2.65	2.50	AVRG	6.0	20.0
Pyrene	2.52	2.50	AVRG	0.8	20.0
Butylbenzylphthalate	2.57	2.50	AVRG	2.8	20.0
Benzo(a)Anthracene	2.36	2.50	AVRG	5.6	20.0
3,3'-Dichlorobenzidine	2.01	2.50	AVRG	19.6	20.0
bis(2-ethylhexyl)phthalate	2.58	2.50	AVRG	3.2	20.0
Chrysene	2.22	2.50	AVRG	11.2	20.0
Di-n-octylphthalate	2.76	2.50	AVRG	10.4	20.0
Benzo(b)fluoranthene	2.80	2.50	AVRG	12.0	20.0
Benzo(k)fluoranthene	2.29	2.50	AVRG	8.4	20.0
Benzo(a)pyrene	2.49	2.50	AVRG	0.4	20.0
Indeno(1,2,3-cd)pyrene	2.87	2.50	AVRG	14.8	20.0
Dibenzo(a,h)anthracene	2.37	2.50	AVRG	5.2	20.0
Benzo(g,h,i)perylene	2.40	2.50	AVRG	4.0	20.0
Acetophenone	2.56	2.50	AVRG	2.4	20.0
Caprolactam	2.11	2.50	AVRG	15.6	20.0
1,1'-Biphenyl	2.57	2.50	AVRG	2.8	20.0
Benzaldehyde	2.38	2.50	AVRG	4.8	20.0
Atrazine	2.60	2.50	AVRG	4.0	20.0
Phenol-d6	2.21	2.50	AVRG	11.6	20.0
2-Fluorophenol	2.31	2.50	AVRG	7.6	20.0
Nitrobenzene-d5	2.53	2.50	AVRG	1.2	20.0
2-Fluorobiphenyl	2.57	2.50	AVRG	2.8	20.0
2,4,6-Tribromophenol	2.73	2.50	AVRG	9.2	20.0
4-Terphenyl-d14	2.28	2.50	AVRG	8.8	20.0

FORM VII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 03 Date Analyzed: 09/18/10

Instrument ID: SV4 Time Analyzed: 1314

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	213733	2.91	745541	4.00	360268	5.66
	UPPER LIMIT	427466	3.41	1491082	4.50	720536	6.16
	LOWER LIMIT	106867	2.41	372771	3.50	180134	5.16
	CLIENT SAMPLE NO.						
01	SBLKS2-10091	161206	2.91	650705	4.00	322014	5.66
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 03 Date Analyzed: 09/18/10

Instrument ID: SV4 Time Analyzed: 1314

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	531232		7.00		415432		9.28		370547		10.92	
	UPPER LIMIT	1062464		7.50		830864		9.78		741094		11.42	
	LOWER LIMIT	265616		6.50		207716		8.78		185274		10.42	
	CLIENT SAMPLE NO.												
01	SBLKS2-10091	472710		7.00		336249		9.28		325468		10.93	
02													
03													
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 internal standard area values with an asterisk.
* Values outside of QC limits.

Data File: \\alshsws008\target\chem\SV4.i\100918.b\01.D

Page 1

Date : 18-SEP-2010 12:15

Client ID: DFTPP

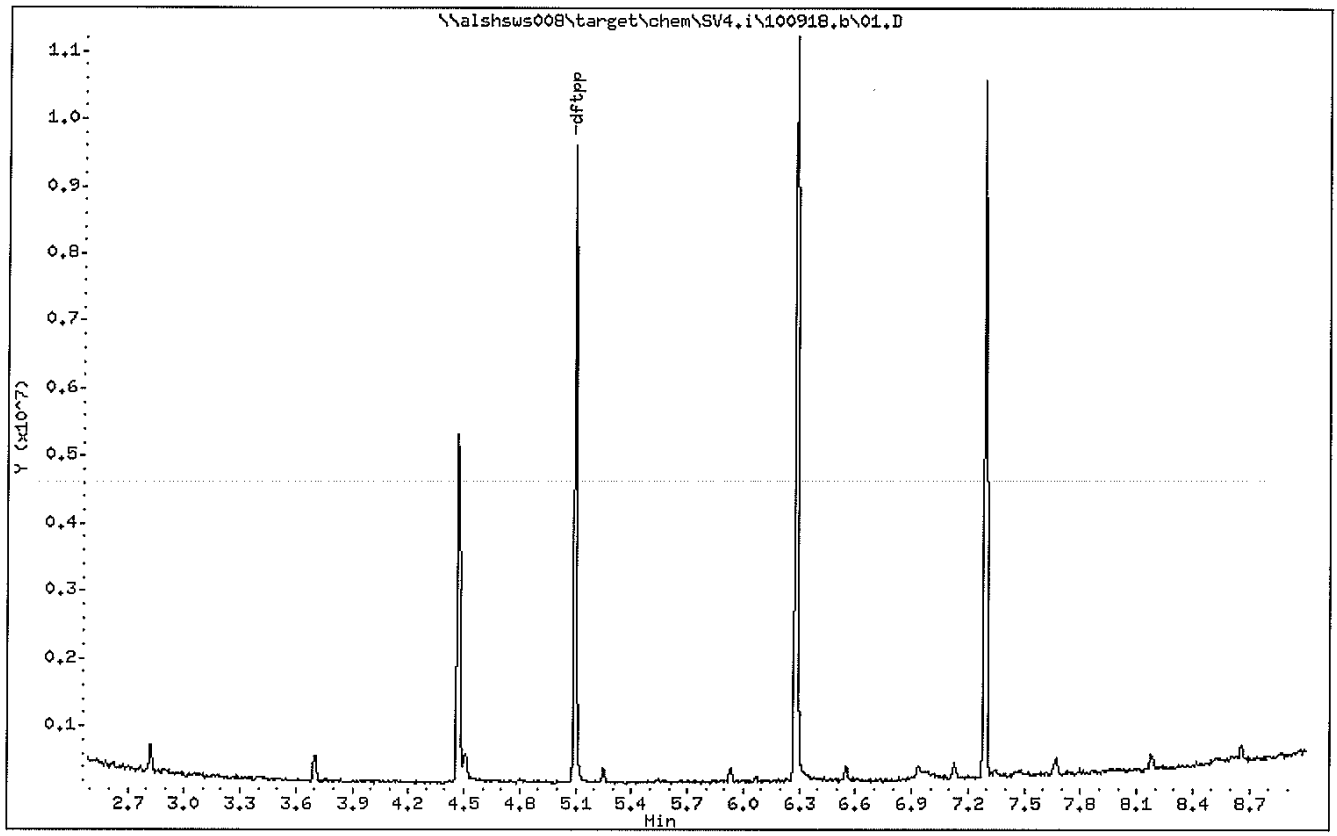
Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\alshsws008\target\chem\SV4.i\100918.b\01.D

Date : 18-SEP-2010 12:15

Client ID: DFTPP

Instrument: SV4.i

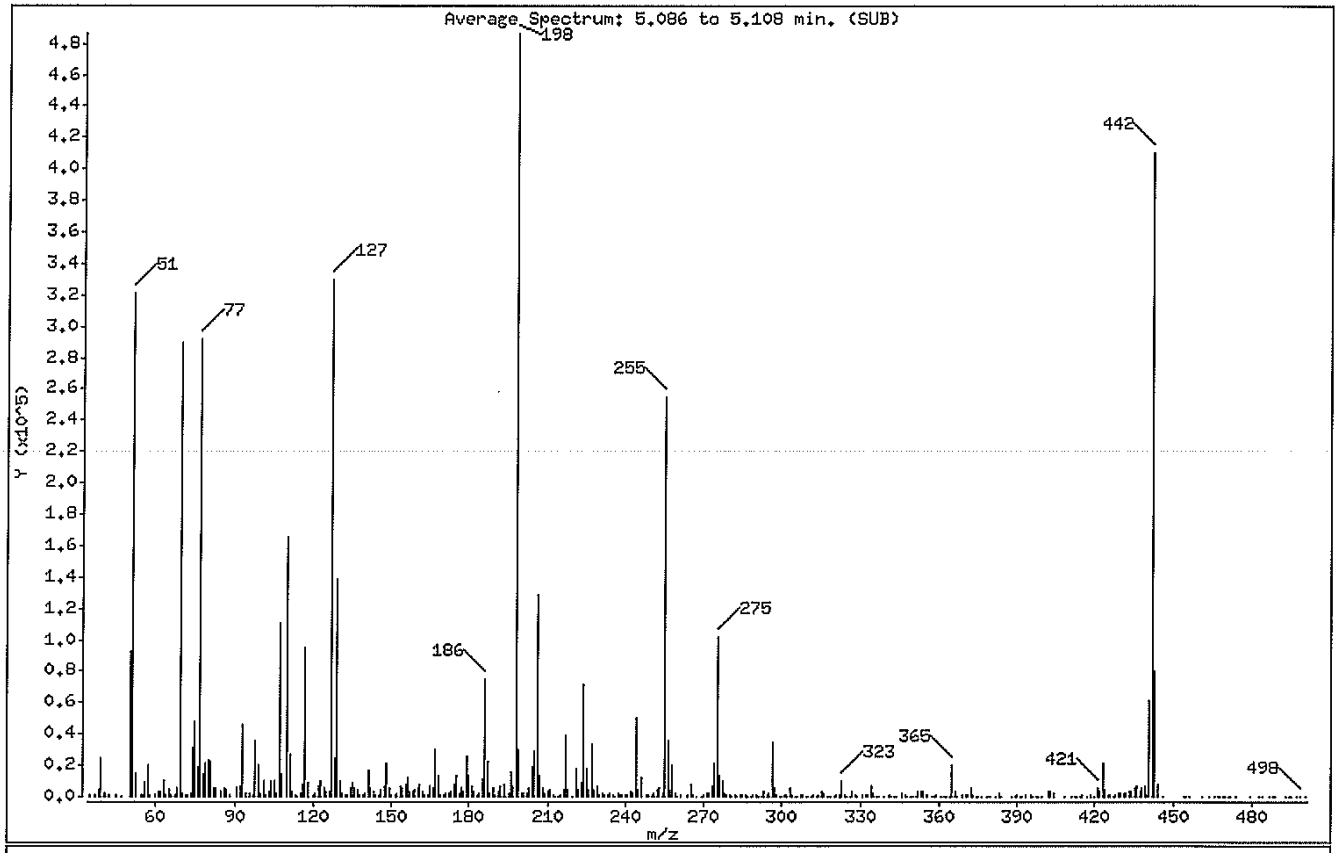
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	66.09
68	Less than 2.00% of mass 69	1.05 (1.76)
69	Mass 69 relative abundance	59.63
70	Less than 2.00% of mass 69	0.46 (0.77)
127	10.00 - 80.00% of mass 198	67.88
197	Less than 2.00% of mass 198	1.40
199	5.00 - 9.00% of mass 198	6.26
275	10.00 - 60.00% of mass 198	20.88
365	Greater than 1.00% of mass 198	4.19
441	0.01 - 24.00% of mass 442	12.55 (14.88)
442	Greater than 50.00% of mass 198	84.36
443	15.00 - 24.00% of mass 442	16.51 (19.57)

Data File: \\alshsws008\target\chem\SV4.i\100918.b\01.D

Date : 18-SEP-2010 12:15

Client ID: DFTPP

Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D

Spectrum: Average Spectrum: 5.086 to 5.108 min. (SUB)

Location of Maximum: 198.00

Number of points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	1011	148.00	20840	249.00	1031	355.00	1466
37.00	1536	149.00	5729	250.00	884	357.00	172
38.00	4152	150.00	1267	251.00	2041	358.00	380
39.00	24240	151.00	1396	252.00	3971	359.00	579
40.00	1678	152.00	1752	253.00	6073	361.00	516
41.00	1950	153.00	6438	254.00	2019	362.00	350
42.00	826	154.00	5510	255.00	254528	363.00	193
45.00	719	155.00	8013	256.00	35784	364.00	238
47.00	108	156.00	12347	257.00	4951	365.00	20368
50.00	92264	157.00	3151	258.00	19656	366.00	2993
51.00	321344	158.00	2801	259.00	2585	367.00	271
52.00	14692	159.00	4039	260.00	515	369.00	983
54.00	608	160.00	5861	261.00	1053	370.00	884
55.00	1605	161.00	7388	264.00	1024	371.00	1454
56.00	8873	162.00	3077	265.00	7812	372.00	5410
57.00	19624	163.00	1085	266.00	1441	373.00	1250
58.00	1007	164.00	975	267.00	308	374.00	327
60.00	863	165.00	6414	269.00	368	375.00	295
61.00	2866	166.00	5773	270.00	594	376.00	38
62.00	3725	167.00	30272	271.00	2157	378.00	411
63.00	10502	168.00	13176	272.00	2023	379.00	84
64.00	1232	169.00	1377	273.00	6609	380.00	288
65.00	4408	170.00	1370	274.00	20728	382.00	10
66.00	735	171.00	2087	275.00	101544	383.00	2130
67.00	704	172.00	2768	276.00	13724	384.00	486
68.00	5110	173.00	3188	277.00	9696	388.00	478
69.00	289920	174.00	7954	278.00	2167	389.00	418
70.00	2221	175.00	13477	279.00	726	390.00	1518
71.00	973	176.00	2541	280.00	698	391.00	284
72.00	847	177.00	5570	281.00	536	392.00	316
73.00	2730	178.00	3886	282.00	582	393.00	612
74.00	31328	179.00	26248	283.00	426	395.00	602
75.00	47912	180.00	13566	284.00	1229	396.00	233
76.00	19320	181.00	7197	285.00	1670	397.00	252
77.00	291264	182.00	2839	286.00	1302	398.00	313

Data File: \\alshsws008\target\chem\SV4.i\100918.b\01.D

Date : 18-SEP-2010 12:15

Client ID: DFTPP

Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D

Spectrum: Average Spectrum: 5.086 to 5.108 min. (SUB)

Location of Maximum: 198.00

Number of points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	14283	183.00	1196	287.00	437	399.00	84
79.00	21296	184.00	2363	288.00	457	402.00	3684
80.00	23992	185.00	11668	289.00	942	403.00	3325
81.00	22000	186.00	75312	290.00	600	404.00	2055
82.00	6022	187.00	22224	291.00	379	408.00	335
83.00	5868	188.00	2629	292.00	536	411.00	526
85.00	3694	189.00	6067	293.00	3493	412.00	231
86.00	5570	190.00	1502	294.00	911	413.00	227
87.00	4700	191.00	3501	295.00	2673	414.00	340
88.00	1066	192.00	6770	296.00	35200	415.00	756
91.00	5529	193.00	7728	297.00	5062	417.00	476
92.00	6377	194.00	504	298.00	1005	418.00	1224
93.00	46192	195.00	2783	299.00	501	420.00	334
94.00	2787	196.00	15348	300.00	448	421.00	5351
96.00	2194	197.00	6820	301.00	1166	422.00	3288
97.00	1452	198.00	486272	302.00	928	423.00	21480
98.00	35880	199.00	30432	303.00	5091	424.00	4647
99.00	20672	200.00	2094	304.00	1529	425.00	1551
100.00	2451	201.00	1827	305.00	104	426.00	809
101.00	10505	202.00	1753	306.00	65	427.00	364
102.00	970	203.00	6058	307.00	566	428.00	1061
103.00	3421	204.00	18928	308.00	979	429.00	1789
104.00	9975	205.00	28960	309.00	278	430.00	2075
105.00	9900	206.00	128064	310.00	457	431.00	2265
106.00	1686	207.00	13051	311.00	475	432.00	2465
107.00	110752	208.00	5160	312.00	907	433.00	3183
108.00	14807	209.00	2073	313.00	497	434.00	3739
110.00	165824	210.00	3358	314.00	1622	435.00	5899
111.00	27080	211.00	4532	315.00	3891	436.00	7176
112.00	3723	212.00	1031	316.00	1836	437.00	3223
113.00	802	213.00	471	317.00	382	438.00	5956
114.00	153	214.00	133	318.00	240	439.00	6478
115.00	1815	215.00	1523	319.00	221	440.00	1609
116.00	7282	216.00	4391	320.00	257	441.00	61040
117.00	95232	217.00	39320	321.00	997	442.00	410240

Data File: \\alshsws008\target\chem\SV4.i\100918.b\01.D

Date : 18-SEP-2010 12:15

Client ID: DFTPP

Instrument: SV4.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: lg

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 5.086 to 5.108 min. (SUB)
Location of Maximum: 198.00
Number of points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	9146	218.00	4827	322.00	1207	443.00	80288
120.00	750	220.00	409	323.00	10079	444.00	7590
121.00	1766	221.00	17448	324.00	1571	446.00	75
122.00	6875	222.00	4716	325.00	62	454.00	36
123.00	10457	223.00	8583	326.00	244	455.00	341
124.00	5453	224.00	71216	327.00	2800	456.00	271
125.00	3575	225.00	18096	328.00	1015	461.00	85
126.00	3112	226.00	3995	329.00	458	464.00	39
127.00	330112	227.00	33128	331.00	684	466.00	42
128.00	24608	228.00	4710	332.00	562	467.00	297
129.00	138112	229.00	6238	333.00	679	468.00	30
130.00	9956	230.00	568	334.00	6236	469.00	271
131.00	2656	231.00	2551	335.00	1970	470.00	173
132.00	1550	232.00	885	336.00	431	471.00	63
133.00	1096	233.00	901	337.00	121	472.00	158
134.00	5486	234.00	2628	339.00	275	474.00	42
135.00	9107	235.00	1501	341.00	718	479.00	282
136.00	5596	236.00	311	342.00	403	483.00	92
137.00	4939	237.00	2544	343.00	346	484.00	45
138.00	1455	238.00	615	344.00	274	487.00	31
139.00	1241	239.00	1114	346.00	2284	488.00	40
140.00	2383	240.00	1323	347.00	1010	489.00	40
141.00	16488	241.00	1321	348.00	193	493.00	102
142.00	5747	242.00	3669	349.00	356	494.00	215
143.00	3717	243.00	2722	350.00	194	495.00	78
144.00	631	244.00	50248	351.00	479	497.00	55
145.00	1556	245.00	4840	352.00	3664	498.00	389
146.00	4456	246.00	11875	353.00	2898	500.00	119
147.00	7048	248.00	1590	354.00	3607		

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GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100918.b\03.D
Lab Smp Id: SLSTD-2.5 Client Smp ID: SLSTD-2.6
Inj Date : 18-SEP-2010 13:14 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SLSTD-2.5;SLSTD-2.6
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100918.b\R8270DLL.m
Meth Date : 23-Sep-2010 14:22 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.911	2.911	(1.000)	213733	2.00000		
$ 9 2-Fluorophenol	112	2.001	2.001	(0.688)	357838	2.50000	2.31	
$ 13 Phenol-d6	99	2.633	2.633	(0.904)	446615	2.50000	2.21	
* 45 Naphthalene-d8	136	4.002	4.002	(1.000)	745541	2.00000		
$ 33 Nitrobenzene-d5	82	3.365	3.365	(0.841)	399630	2.50000	2.53	
* 86 Acenaphthene-d10	164	5.660	5.660	(1.000)	360268	2.00000		(M)
$ 69 2-Fluorobiphenyl	172	5.029	5.029	(0.889)	640355	2.50000	2.57	
* 126 Phenanthrene-d10	188	6.997	6.997	(1.000)	531232	2.00000		
$ 105 2,4,6-Tribromophenol	330	6.425	6.425	(1.135)	79622	2.50000	2.73	
* 182 Chrysene-d12	240	9.276	9.276	(1.000)	415432	2.00000		
$ 158 4-Terphenyl-d14	244	8.329	8.329	(0.898)	375478	2.50000	2.28	
* 198 Perylene-d12	264	10.923	10.923	(1.000)	370547	2.00000		
12 Benzaldehyde	77	2.584	2.584	(0.888)	254021	2.50000	2.38	
14 Phenol	94	2.643	2.643	(0.908)	496710	2.50000	2.67	
17 Bis(2-chloroethyl)ether	93	2.702	2.702	(0.928)	390769	2.50000	2.54	
18 2-Chlorophenol	128	2.750	2.750	(0.945)	337524	2.50000	2.26	
24 2-Methylphenol	108	3.119	3.119	(1.072)	330120	2.50000	2.38	
29 3&4-Methylphenol	107	3.253	3.253	(1.118)	367391	2.50000	2.25	
25 bis(2-Chloroisopropyl)ether	45	3.135	3.135	(1.077)	398359	2.50000	2.30	
27 Acetophenone	105	3.242	3.242	(0.810)	501293	2.50000	2.56	
28 N-Nitroso-di-n-propylamine	70	3.248	3.248	(1.116)	249240	2.50000	2.25	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
31 Hexachloroethane	117	3.328	3.328	(1.143)	148484	2.50000	2.23
35 Nitrobenzene	77	3.381	3.381	(0.845)	373808	2.50000	2.41
36 Isophorone	82	3.595	3.595	(0.898)	656339	2.50000	2.50
37 2-Nitrophenol	139	3.665	3.665	(0.916)	196520	2.50000	2.54
40 2,4-Dimethylphenol	122	3.718	3.718	(0.929)	294827	2.50000	2.36
41 Bis(2-chloroethoxy)methane	93	3.799	3.799	(0.949)	346980	2.50000	2.32
43 2,4-Dichlorophenol	162	3.884	3.884	(0.971)	257353	2.50000	2.43
46 Naphthalene	128	4.018	4.018	(1.004)	1018666	2.50000	2.46
48 4-Chloroaniline	127	4.082	4.082	(1.020)	341764	2.50000	2.19
51 Hexachlorobutadiene	225	4.146	4.146	(1.036)	123473	2.50000	2.34
57 Caprolactam	113	4.376	4.376	(1.094)	82126	2.50000	2.11
58 4-Chloro-3-Methylphenol	107	4.558	4.558	(1.139)	282590	2.50000	2.30
61 2-Methylnaphthalene	141	4.665	4.665	(1.166)	555534	2.50000	2.46
63 Hexachlorocyclopentadiene	235	4.831	4.831	(0.854)	68173	2.50000	2.00(M)
66 2,4,6-Trichlorophenol	196	4.949	4.949	(0.874)	161089	2.50000	2.74
68 2,4,5-Trichlorophenol	196	4.981	4.981	(0.880)	158129	2.50000	2.48
73 1,1'-Biphenyl	154	5.114	5.114	(0.904)	713464	2.50000	2.57
74 2-Chloronaphthalene	162	5.125	5.125	(0.906)	708992	2.50000	2.53
77 2-Nitroaniline	65	5.232	5.232	(0.924)	161128	2.50000	2.37
80 Dimethylphthalate	163	5.430	5.430	(0.959)	653888	2.50000	2.54
82 2,6-Dinitrotoluene	165	5.473	5.473	(0.967)	147782	2.50000	2.61
83 Acenaphthylene	152	5.521	5.521	(0.975)	925646	2.50000	2.48
85 3-Nitroaniline	138	5.633	5.633	(0.995)	155312	2.50000	2.61
88 Acenaphthene	154	5.687	5.687	(1.005)	522287	2.50000	2.44
89 2,4-Dinitrophenol	184	5.735	5.735	(1.013)	70666	2.50000	2.27
90 4-Nitrophenol	109	5.836	5.836	(1.031)	120978	2.50000	2.44(M)
92 Dibenzofuran	168	5.858	5.858	(1.035)	762577	2.50000	2.48
93 2,4-Dinitrotoluene	165	5.863	5.863	(1.036)	201581	2.50000	2.64
97 Diethylphthalate	149	6.115	6.115	(1.080)	701045	2.50000	2.48
98 Fluorene	166	6.189	6.189	(1.094)	654260	2.50000	2.59
99 4-Chlorophenyl phenyl ether	204	6.200	6.200	(1.095)	243676	2.50000	2.51
100 4-Nitroaniline	138	6.222	6.222	(1.099)	133807	2.50000	2.16
101 4,6-Dinitro-2-methylphenol	198	6.254	6.254	(0.894)	92506	2.50000	2.44
102 N-Nitrosodiphenylamine	169	6.318	6.318	(0.903)	504964	2.50000	2.38
112 4-Bromophenyl-phenylether	248	6.671	6.671	(0.953)	130186	2.50000	2.68
113 Hexachlorobenzene	284	6.719	6.719	(0.960)	129133	2.50000	2.55
118 Atrazine	200	6.826	6.826	(0.976)	133881	2.50000	2.60
121 Pentachlorophenol	266	6.874	6.874	(0.982)	61743	2.50000	2.32
128 Phenanthrene	178	7.013	7.013	(1.002)	771839	2.50000	2.46
130 Anthracene	178	7.051	7.051	(1.008)	787855	2.50000	2.51
134 Carbazole	167	7.179	7.179	(1.026)	691340	2.50000	2.48
140 Di-n-butylphthalate	149	7.489	7.489	(1.070)	1258793	2.50000	2.73
149 Fluoranthene	202	7.965	7.965	(1.138)	731110	2.50000	2.65
155 Pyrene	202	8.152	8.152	(0.879)	810802	2.50000	2.52
173 Butylbenzylphthalate	149	8.805	8.805	(0.949)	578113	2.50000	2.57
180 3,3'-Dichlorobenzidine	252	9.276	9.276	(1.000)	126424	2.50000	2.01
181 Benzo(a)Anthracene	228	9.270	9.270	(0.999)	566454	2.50000	2.36
183 Chrysene	228	9.302	9.302	(1.003)	534020	2.50000	2.22
184 bis(2-ethylhexyl)phthalate	149	9.404	9.404	(1.014)	835532	2.50000	2.58
190 Di-n-octylphthalate	149	10.142	10.142	(0.928)	1429329	2.50000	2.76
192 Benzo(b)fluoranthene	252	10.463	10.463	(0.958)	588610	2.50000	2.80
195 Benzo(k)fluoranthene	252	10.495	10.495	(0.961)	531765	2.50000	2.29(H)
197 Benzo(a)pyrene	252	10.853	10.853	(0.994)	524947	2.50000	2.49
209 Indeno(1,2,3-cd)pyrene	276	12.287	12.287	(1.125)	495466	2.50000	2.87

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
210 Dibenzo(a,h)anthracene	278	12.335	12.335	(1.129)	431574	2.50000	2.37(H)
212 Benzo(g,h,i)perylene	276	12.613	12.613	(1.155)	494531	2.50000	2.40

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alshsws008\target\chem\SV4.i\100918.b\03.D

Date : 18-SEP-2010 13:14

Client ID: SLSTD-2.6

Sample Info: SLSTD-2.5;SLSTD-2.6

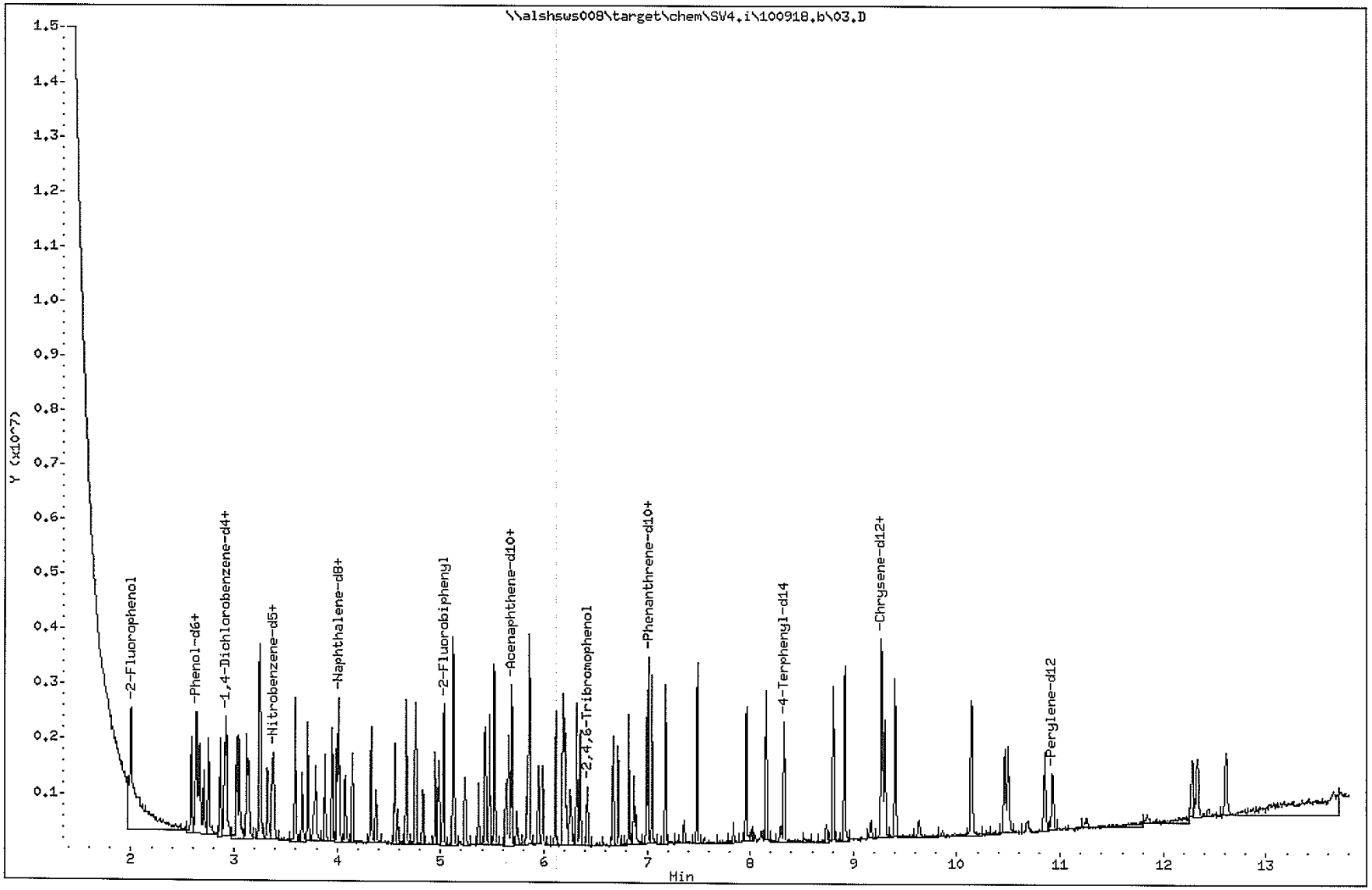
Purge Volume: 1000.0

Column phase: RTX-5SIL MS

Instrument: SV4.i

Operator: lg

Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV4.i\100918.b\04.D
Lab Smp Id: SBLKS2-100917 Client Smp ID: SBLKS2-100917
Inj Date : 18-SEP-2010 13:43 MS Autotune Date: 15-JUN-2010 15:41
Operator : lg Inst ID: SV4.i
Smp Info : SBLKS2-100917;SBLKS2-100917;3;;BLANK
Misc Info : 1009537;2;0;1
Comment :
Method : \\alshsws008\target\chem\SV4.i\100918.b\R8270DLL.m
Meth Date : 23-Sep-2010 14:22 SV4.i Quant Type: ISTD
Cal Date : 11-AUG-2010 16:01 Cal File: 14.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

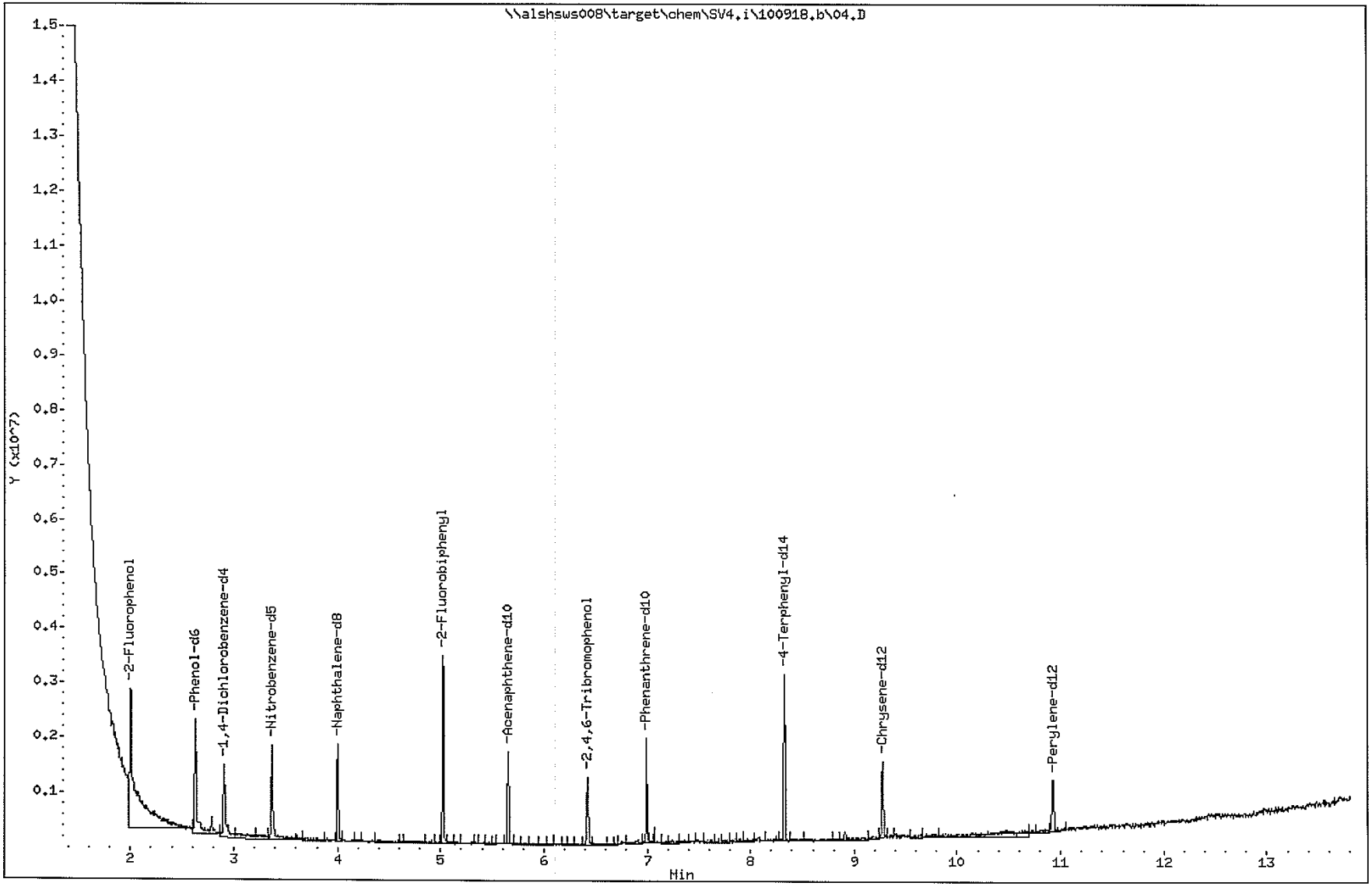
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 20 1,4-Dichlorobenzene-d4	152	2.911	2.911	(1.000)	161206	2.00000	
$ 9 2-Fluorophenol	112	2.002	2.001	(0.688)	449424	3.84792	128.26
$ 13 Phenol-d6	99	2.633	2.633	(0.904)	607956	4.00232	133.41
* 45 Naphthalene-d8	136	4.002	4.002	(1.000)	650705	2.00000	
$ 33 Nitrobenzene-d5	82	3.365	3.365	(0.841)	525680	3.82536	127.51
* 86 Acenaphthene-d10	164	5.655	5.660	(1.000)	322014	2.00000	
$ 69 2-Fluorobiphenyl	172	5.024	5.029	(0.888)	831100	3.73787	124.59
* 126 Phenanthrene-d10	188	6.997	6.997	(1.000)	472710	2.00000	
$ 105 2,4,6-Tribromophenol	330	6.420	6.425	(1.135)	87116	3.34811	111.60
* 182 Chrysene-d12	240	9.276	9.276	(1.000)	336249	2.00000	
$ 158 4-Terphenyl-d14	244	8.329	8.329	(0.898)	517852	3.90044	130.01
* 198 Perylene-d12	264	10.928	10.923	(1.000)	325468	2.00000	

Data File: \\alshsws008\target\chem\SV4.i\100918.b\04.D
Date : 18-SEP-2010 13:43
Client ID: SBLKS2-100917
Sample Info: SBLKS2-100917;SBLKS2-100917;3;;BLANK

Instrument: SV4.i
Operator: lg
Column diameter: 0.28

Column phase: RTX-5SIL MS



ALS Laboratory Group **GC/MS SV #6 Instrument Run Log** **Logbook # 23011**

Sequence # 1008116		Method: 8270D / E625 / CLP / Others	SOP #: MSSV-001 ~~MSSV-003 LL~~
RPM: VRM	IS ID: 22717-28-020	CAL STD ID: 22717-29-01	DFTPP ID: 22717-17-01

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
1	DFTPP	50ng					8/16/10	13:37	✓	[illegible]	
2	4SD-2.5	2.5ppm						13:47	DU		
3	-0.2	0.2ppm						14:11	✓		
4	-0.5	0.5ppm						14:30	✓		
5	-1.0	1.0ppm						14:50	✓		
6	-5.0	5.0ppm						15:09	✓		
7	-7.5	7.5ppm						15:29	✓		
8	-10	10ppm						15:48	✓		
9	-2.5	2.5ppm						16:08	✓		
10	CRLT ICV-2.5	2.5ppm						16:33	✓		
11	CRLT ICV-2.5	2.5ppm						16:52	✓		
12	4.3ICV-2.5	2.5ppm						17:11	✓		
13	Lot 2 ICV-2.5	2.5ppm						17:31	✓		
14	1008324	[illegible]-100814	water	1000ml	1ml	1		17:58	✓		
15		4CSW2-100814						18:21	✓		
16		4CSDW2-100814						18:41	✓		
17		01B						19:00	✓		
18											
19											
20											
21											
22											
23											
24											
25											

IS1/1,4-dichlorobenzene-$_{d4}$: 452055		IS2/naphthalene-$_{d8}$: 1809850	IS3/acenaphthene-$_{d10}$: 874081
IS4/phenanthrene-$_{d10}$: 1383764		IS5/chrysene-$_{d12}$: 1221399	IS6/perylene-$_{d12}$: 1109174

DFTPP resp: 300619232	DDD resp: —	DDE resp: —	PCP Resp: 316525912	PCP Tailing: 0.71 (< 2.0 %)
DDT resp: 402981619	% Breakdown: — (< 20 %)		Benz. Resp: 506413865	Benz. Tailing: 0.35 (< 2.0 %)

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FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Matrix Spike - Sample No.: LOT2ICV-2.5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Phenol	2.50	2.56	102	75-125
Bis(2-chloroethyl)ether	2.50	2.53	101	75-125
2-Chlorophenol	2.50	2.57	103	75-125
2-Methylphenol	2.50	2.56	102	75-125
bis(2-Chloroisopropyl)e	2.50	2.57	103	75-125
3&4-Methylphenol	2.50	2.54	102	75-125
N-Nitroso-di-n-prop.(1)	2.50	2.60	104	75-125
Hexachloroethane	2.50	2.56	102	75-125
Nitrobenzene	2.50	2.72	109	75-125
Isophorone	2.50	2.71	108	75-125
2-Nitrophenol	2.50	2.73	109	75-125
2,4-Dimethylphenol	2.50	2.40	96	75-125
Bis(2-chloroethoxy)meth	2.50	2.64	106	75-125
2,4-Dichlorophenol	2.50	2.55	102	75-125
Naphthalene	2.50	2.69	108	75-125
4-Chloroaniline	2.50	2.57	103	75-125
Hexachlorobutadiene	2.50	2.69	108	75-125
4-Chloro-3-Methylphenol	2.50	2.63	105	75-125
2-Methylnaphthalene	2.50	2.49	100	75-125
Hexachlorocyclopentadie	2.50	2.57	103	75-125
2,4,6-Trichlorophenol	2.50	2.52	101	75-125
2,4,5-Trichlorophenol	2.50	2.62	105	75-125
2-Chloronaphthalene	2.50	2.69	108	75-125
2-Nitroaniline	2.50	2.69	108	75-125
Dimethylphthalate	2.50	2.61	104	75-125
Acenaphthylene	2.50	2.58	103	75-125
2,6-Dinitrotoluene	2.50	2.74	110	75-125
3-Nitroaniline	2.50	2.58	103	75-125

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

_____

FORM III SV

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Matrix Spike - Sample No.: LOT2ICV-2.5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Acenaphthene	2.50	2.66	106	75-125
2,4-Dinitrophenol	2.50	2.42	97	75-125
Dibenzofuran	2.50	2.61	104	75-125
4-Nitrophenol	2.50	2.70	108	75-125
2,4-Dinitrotoluene	2.50	2.83	113	75-125
Diethylphthalate	2.50	2.64	106	75-125
4-Chlorophenyl phenyl e	2.50	2.61	104	75-125
Fluorene	2.50	2.63	105	75-125
4-Nitroaniline	2.50	2.74	110	75-125
4,6-Dinitro-2-methylphe	2.50	2.75	110	75-125
N-Nitrosodiphenylamine	2.50	2.66	106	75-125
4-Bromophenyl-phenyleth	2.50	2.67	107	75-125
Hexachlorobenzene	2.50	2.69	108	75-125
Pentachlorophenol	2.50	2.64	106	75-125
Phenanthrene	2.50	2.65	106	75-125
Anthracene	2.50	2.71	108	75-125
Carbazole	2.50	2.71	108	75-125
Di-n-butylphthalate	2.50	2.77	111	75-125
Fluoranthene	2.50	2.74	110	75-125
Pyrene	2.50	2.62	105	75-125
Butylbenzylphthalate	2.50	2.58	103	75-125
Benzo(a)Anthracene	2.50	2.59	104	75-125
3,3'-Dichlorobenzidine	2.50	2.40	96	75-125
bis(2-ethylhexyl)phthal	2.50	2.65	106	75-125
Chrysene	2.50	2.58	103	75-125
Di-n-octylphthalate	2.50	2.56	102	75-125
Benzo(b)fluoranthene	2.50	2.44	98	75-125
Benzo(k)fluoranthene	2.50	2.61	104	75-125

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

_____

FORM III SV

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Matrix Spike - Sample No.: LOT2ICV-2.5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Benzo(a)pyrene	2.50	2.61	104	75-125
Indeno(1,2,3-cd)pyrene	2.50	2.57	103	75-125
Dibenzo(a,h)anthracene	2.50	2.61	104	75-125
Benzo(g,h,i)perylene	2.50	2.58	103	75-125
Acetophenone	2.50	2.36	94	75-125
Caprolactam	2.50	2.39	96	75-125
1,1'-Biphenyl	2.50	2.37	95	75-125
Atrazine	2.50	2.43	97	75-125

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV6 Calibration Date(s): 08/16/10 08/16/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1411 1608

LAB FILE ID: RF0.2: 003 RF0.5: 004 RF1: 005
RF2.5: 009 RF5: 006

COMPOUND	RF0.2	RF0.5	RF1	RF2.5	RF5
Phenol	2.076	2.134	2.036	1.852	2.071
Bis(2-chloroethyl)ether	1.724	1.786	1.737	1.559	1.792
2-Chlorophenol	1.593	1.596	1.522	1.456	1.605
2-Methylphenol	1.417	1.474	1.403	1.311	1.463
bis(2-Chloroisopropyl)ether	3.068	3.084	2.993	2.772	3.108
3&4-Methylphenol	1.661	1.739	1.640	1.536	1.717
N-Nitroso-di-n-propylamine	1.192	1.207	1.145	1.113	1.248
Hexachloroethane	0.741	0.712	0.715	0.660	0.727
Nitrobenzene	0.414	0.422	0.424	0.404	0.450
Isophorone	0.762	0.775	0.761	0.732	0.809
2-Nitrophenol	0.167	0.164	0.166	0.169	0.195
2,4-Dimethylphenol	0.346	0.351	0.318	0.319	0.358
Bis(2-chloroethoxy)methane	0.503	0.501	0.491	0.453	0.506
2,4-Dichlorophenol	0.280	0.273	0.265	0.249	0.278
Naphthalene	1.115	1.157	1.105	1.020	1.144
4-Chloroaniline	0.471	0.478	0.469	0.435	0.489
Hexachlorobutadiene	0.132	0.134	0.129	0.122	0.132
4-Chloro-3-Methylphenol	0.335	0.321	0.310	0.302	0.342
2-Methylnaphthalene	0.583	0.597	0.587	0.546	0.612
Hexachlorocyclopentadiene	0.275	0.271	0.273	0.279	0.318
2,4,6-Trichlorophenol	0.377	0.332	0.348	0.332	0.362
2,4,5-Trichlorophenol	0.345	0.367	0.347	0.330	0.375
2-Chloronaphthalene	1.252	1.358	1.361	1.304	1.329
2-Nitroaniline	0.447	0.443	0.454	0.455	0.511
Dimethylphthalate	1.394	1.391	1.407	1.323	1.431
Acenaphthylene	2.027	2.108	2.030	1.926	2.148
2,6-Dinitrotoluene	0.271	0.278	0.301	0.296	0.325
3-Nitroaniline	0.362	0.360	0.377	0.373	0.412
Acenaphthene	1.255	1.258	1.237	1.183	1.311
2,4-Dinitrophenol	0.093	0.085	0.114	0.142	0.167
Dibenzofuran	1.718	1.759	1.692	1.617	1.743
4-Nitrophenol	0.212	0.196	0.194	0.203	0.248
2,4-Dinitrotoluene	0.308	0.351	0.380	0.380	0.432
Diethylphthalate	1.440	1.494	1.442	1.382	1.532
4-Chlorophenyl phenyl ether	0.564	0.583	0.533	0.510	0.547
Fluorene	1.455	1.476	1.454	1.325	1.426
4-Nitroaniline	0.329	0.354	0.388	0.381	0.423

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV6 Calibration Date(s): 08/16/10 08/16/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1411 1608

LAB FILE ID: RF0.2: 003 RF0.5: 004 RF1: 005
RF2.5: 009 RF5: 006

COMPOUND	RF0.2	RF0.5	RF1	RF2.5	RF5
4,6-Dinitro-2-methylphenol	0.077	0.086	0.097	0.109	0.129
N-Nitrosodiphenylamine	0.722	0.733	0.750	0.699	0.746
4-Bromophenyl-phenylether	0.186	0.193	0.192	0.179	0.192
Hexachlorobenzene	0.189	0.195	0.194	0.180	0.198
Pentachlorophenol	0.079	0.087	0.094	0.105	0.119
Phenanthrene	1.256	1.241	1.215	1.129	1.220
Anthracene	1.131	1.188	1.199	1.145	1.235
Carbazole	1.186	1.183	1.214	1.139	1.202
Di-n-butylphthalate	1.455	1.476	1.496	1.487	1.611
Fluoranthene	1.048	1.071	1.108	1.062	1.144
Pyrene	1.352	1.399	1.424	1.318	1.434
Butylbenzylphthalate	0.687	0.720	0.745	0.706	0.805
Benzo(a)Anthracene	1.197	1.174	1.183	1.091	1.210
3,3'-Dichlorobenzidine	0.357	0.354	0.383	0.366	0.414
bis(2-ethylhexyl)phthalate	0.992	0.998	1.084	1.032	1.163
Chrysene	1.182	1.196	1.192	1.080	1.167
Di-n-octylphthalate	1.705	1.694	1.830	1.823	2.087
Benzo(b)fluoranthene	1.154	1.215	1.200	1.132	1.260
Benzo(k)fluoranthene	1.270	1.284	1.274	1.210	1.323
Benzo(a)pyrene	1.056	1.148	1.118	1.078	1.204
Indeno(1,2,3-cd)pyrene	1.015	1.104	1.038	1.042	1.193
Dibenzo(a,h)anthracene	1.018	1.076	1.064	1.015	1.130
Benzo(g,h,i)perylene	1.024	1.158	1.124	1.051	1.152
Acetophenone	0.569	0.566	0.561	0.507	0.571
Caprolactam	0.104	0.098	0.102	0.107	0.118
1,1'-Biphenyl	1.670	1.686	1.622	1.481	1.671
Benzaldehyde	1.379	1.374	1.288	1.207	1.309
Atrazine	0.195	0.203	0.199	0.190	0.206
Phenol-d6	2.108	2.115	2.019	1.852	2.115
2-Fluorophenol	1.588	1.593	1.551	1.424	1.604
Nitrobenzene-d5	0.437	0.439	0.432	0.411	0.465
2-Fluorobiphenyl	1.408	1.395	1.405	1.319	1.443
2,4,6-Tribromophenol	0.144	0.135	0.141	0.141	0.159
4-Terphenyl-d14	0.789	0.835	0.832	0.758	0.834

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV6 Calibration Date(s): 08/16/10 08/16/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1411 1608

LAB FILE ID: RF7.5: 007 RF10: 008

COMPOUND	RF7.5	RF10
Phenol	1.783	2.145
Bis(2-chloroethyl)ether	1.577	1.738
2-Chlorophenol	1.375	1.637
2-Methylphenol	1.258	1.517
bis(2-Chloroisopropyl)ether	2.683	3.207
3&4-Methylphenol	1.469	1.756
N-Nitroso-di-n-propylamine	1.067	1.279
Hexachloroethane	0.624	0.753
Nitrobenzene	0.382	0.455
Isophorone	0.692	0.831
2-Nitrophenol	0.166	0.201
2,4-Dimethylphenol	0.304	0.362
Bis(2-chloroethoxy)methane	0.426	0.510
2,4-Dichlorophenol	0.236	0.286
Naphthalene	0.967	1.043
4-Chloroaniline	0.402	0.477
Hexachlorobutadiene	0.114	0.135
4-Chloro-3-Methylphenol	0.289	0.345
2-Methylnaphthalene	0.514	0.616
Hexachlorocyclopentadiene	0.276	0.331
2,4,6-Trichlorophenol	0.308	0.364
2,4,5-Trichlorophenol	0.322	0.382
2-Chloronaphthalene	1.028	1.245
2-Nitroaniline	0.442	0.529
Dimethylphthalate	1.246	1.431
Acenaphthylene	1.822	2.115
2,6-Dinitrotoluene	0.280	0.327
3-Nitroaniline	0.358	0.413
Acenaphthene	1.138	1.331
2,4-Dinitrophenol	0.145	0.187
Dibenzofuran	1.518	1.763
4-Nitrophenol	0.210	0.254
2,4-Dinitrotoluene	0.368	0.438
Diethylphthalate	1.305	1.522
4-Chlorophenyl phenyl ether	0.468	0.546
Fluorene	1.238	1.444
4-Nitroaniline	0.362	0.428

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV6 Calibration Date(s): 08/16/10 08/16/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1411 1608

LAB FILE ID: RF7.5: 007 RF10: 008

COMPOUND	RF7.5	RF10
4,6-Dinitro-2-methylphenol	0.117	0.145
N-Nitrosodiphenylamine	0.658	0.774
4-Bromophenyl-phenylether	0.166	0.198
Hexachlorobenzene	0.171	0.203
Pentachlorophenol	0.107	0.131
Phenanthrene	1.058	1.246
Anthracene	1.076	1.271
Carbazole	1.019	1.216
Di-n-butylphthalate	1.421	1.436
Fluoranthene	1.014	1.207
Pyrene	1.231	1.442
Butylbenzylphthalate	0.685	0.824
Benzo(a)Anthracene	1.045	1.249
3,3'-Dichlorobenzidine	0.344	0.413
bis(2-ethylhexyl)phthalate	0.997	1.172
Chrysene	0.978	1.138
Di-n-octylphthalate	1.850	2.202
Benzo(b)fluoranthene	1.173	1.357
Benzo(k)fluoranthene	1.062	1.292
Benzo(a)pyrene	1.049	1.259
Indeno(1,2,3-cd)pyrene	1.015	1.277
Dibenzo(a,h)anthracene	0.935	1.168
Benzo(g,h,i)perylene	1.005	1.220
Acetophenone	0.486	0.573
Caprolactam	0.102	0.123
1,1'-Biphenyl	1.431	1.663
Benzaldehyde	1.122	1.237
Atrazine	0.183	0.218
Phenol-d6	1.812	2.169
2-Fluorophenol	1.365	1.669
Nitrobenzene-d5	0.391	0.472
2-Fluorobiphenyl	1.240	1.455
2,4,6-Tribromophenol	0.138	0.164
4-Terphenyl-d14	0.722	0.844

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV6 Calibration Date(s): 08/16/10 08/16/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1411 1608

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Phenol	AVRG		2.01397485		7.0
Bis(2-chloroethyl)ether	AVRG		1.70181990		5.6
2-Chlorophenol	AVRG		1.54087437		6.2
2-Methylphenol	AVRG		1.40617421		6.6
bis(2-Chloroisopropyl)ether	AVRG		2.98778309		6.4
3&4-Methylphenol	AVRG		1.64557557		6.5
N-Nitroso-di-n-propylamine	AVRG		1.17871702		6.4
Hexachloroethane	AVRG		0.70457133		6.6
Nitrobenzene	AVRG		0.42161329		6.0
Isophorone	AVRG		0.76604178		6.0
2-Nitrophenol	AVRG		0.17545741		8.8
2,4-Dimethylphenol	AVRG		0.33676558		6.8
Bis(2-chloroethoxy)methane	AVRG		0.48420634		6.6
2,4-Dichlorophenol	AVRG		0.26678249		6.8
Naphthalene	AVRG		1.07882714		6.5
4-Chloroaniline	AVRG		0.45998726		6.7
Hexachlorobutadiene	AVRG		0.12839429		6.1
4-Chloro-3-Methylphenol	AVRG		0.32057946		6.6
2-Methylnaphthalene	AVRG		0.57945207		6.4
Hexachlorocyclopentadiene	AVRG		0.28887362		8.5
2,4,6-Trichlorophenol	AVRG		0.34620105		6.8
2,4,5-Trichlorophenol	AVRG		0.35284013		6.4
2-Chloronaphthalene	AVRG		1.26804984		9.1
2-Nitroaniline	AVRG		0.46897170		7.6
Dimethylphthalate	AVRG		1.37497403		4.9
Acenaphthylene	AVRG		2.02493417		5.7
2,6-Dinitrotoluene	AVRG		0.29686617		7.6
3-Nitroaniline	AVRG		0.37936014		6.3
Acenaphthene	AVRG		1.24489402		5.4
2,4-Dinitrophenol	2ORDR	4.429e-002	7.49484940	-2.2935880	0.992
Dibenzofuran	AVRG		1.68732040		5.3
4-Nitrophenol	AVRG		0.21695326		11.3
2,4-Dinitrotoluene	AVRG		0.37971023		11.9
Diethylphthalate	AVRG		1.44532602		5.6
4-Chlorophenyl phenyl ether	AVRG		0.53572321		7.1
Fluorene	AVRG		1.40267665		6.2
4-Nitroaniline	AVRG		0.38073221		9.4

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV6 Calibration Date(s): 08/16/10 08/16/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1411 1608

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
4,6-Dinitro-2-methylphenol	2ORDR	2.499e-002	9.53544425	-3.6011206	0.995
N-Nitrosodiphenylamine	AVRG		0.72611098		5.2
4-Bromophenyl-phenylether	AVRG		0.18670593		5.8
Hexachlorobenzene	AVRG		0.18998153		5.9
Pentachlorophenol	2ORDR	1.589e-003	10.3507834	-4.0447559	0.995
Phenanthrene	AVRG		1.19495836		6.1
Anthracene	AVRG		1.17781546		5.6
Carbazole	AVRG		1.16555486		6.0
Di-n-butylphthalate	AVRG		1.48312041		4.2
Fluoranthene	AVRG		1.09354297		6.0
Pyrene	AVRG		1.37128712		5.6
Butylbenzylphthalate	AVRG		0.73897291		7.5
Benzo(a)Anthracene	AVRG		1.16414261		6.1
3,3'-Dichlorobenzidine	AVRG		0.37587536		7.6
bis(2-ethylhexyl)phthalate	AVRG		1.06250308		7.4
Chrysene	AVRG		1.13332230		7.0
Di-n-octylphthalate	AVRG		1.88444611		10.1
Benzo(b)fluoranthene	AVRG		1.21283599		6.3
Benzo(k)fluoranthene	AVRG		1.24512156		7.0
Benzo(a)pyrene	AVRG		1.13040316		7.0
Indeno(1,2,3-cd)pyrene	AVRG		1.09783179		9.2
Dibenzo(a,h)anthracene	AVRG		1.05806691		7.3
Benzo(g,h,i)perylene	AVRG		1.10470722		7.2
Acetophenone	AVRG		0.54759567		6.5
Caprolactam	AVRG		0.10791219		8.5
1,1'-Biphenyl	AVRG		1.60341109		6.5
Benzaldehyde	AVRG		1.27388494		7.3
Atrazine	AVRG		0.19938287		5.7
Phenol-d6	AVRG		2.02728030		7.0
2-Fluorophenol	AVRG		1.54200780		7.0
Nitrobenzene-d5	AVRG		0.43552535		6.5
2-Fluorobiphenyl	AVRG		1.38066077		5.5
2,4,6-Tribromophenol	AVRG		0.14616872		7.4
4-Terphenyl-d14	AVRG		0.80209716		5.8

FORM VI SV

Data File: \\alshsws008\target\chem\SV6.i\100816.b\001.D

Page 1

Date : 16-AUG-2010 13:37

Client ID: DFTPP

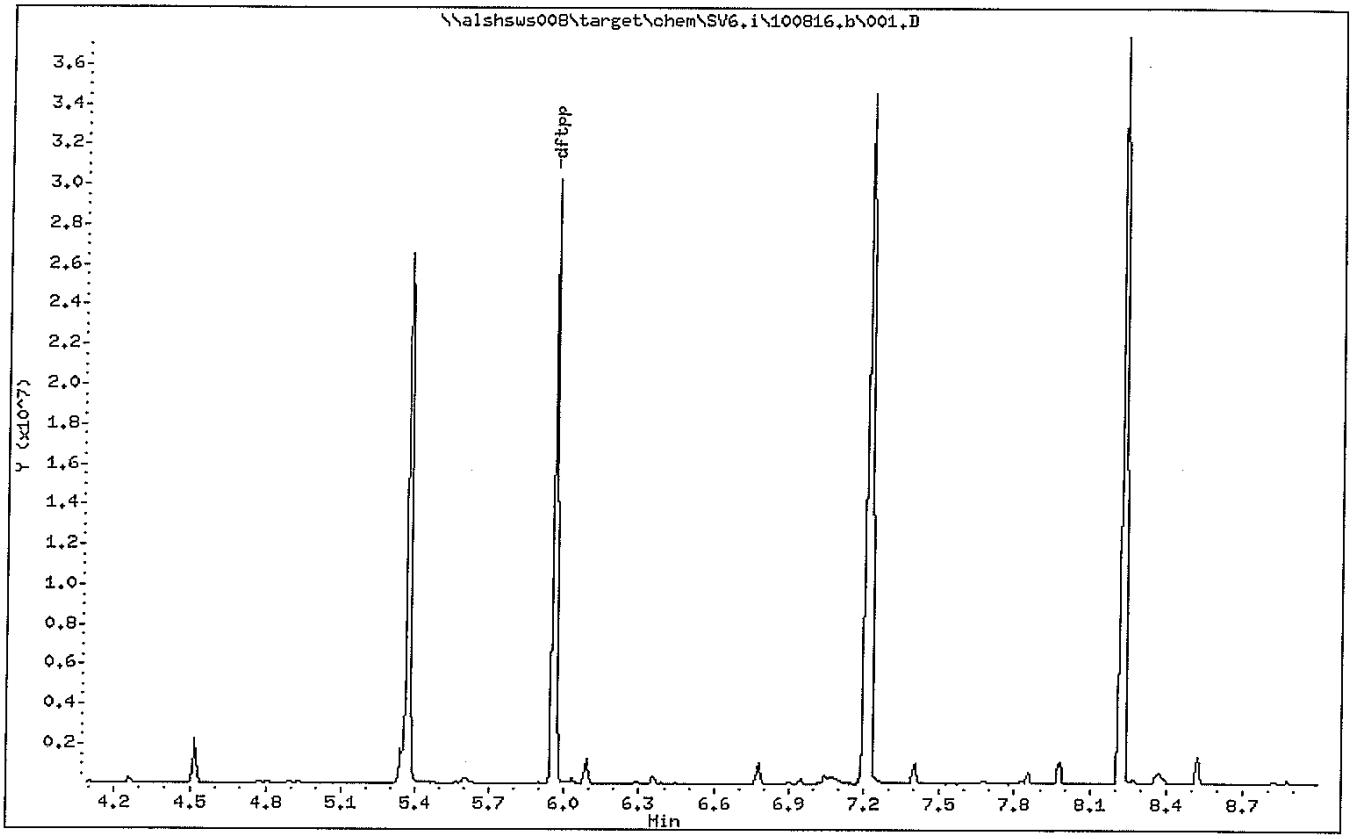
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: LG

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\alshsws008\target\chem\SV6.i\100816.b\001.D

Date : 16-AUG-2010 13:37

Client ID: DFTPP

Instrument: SV6.i

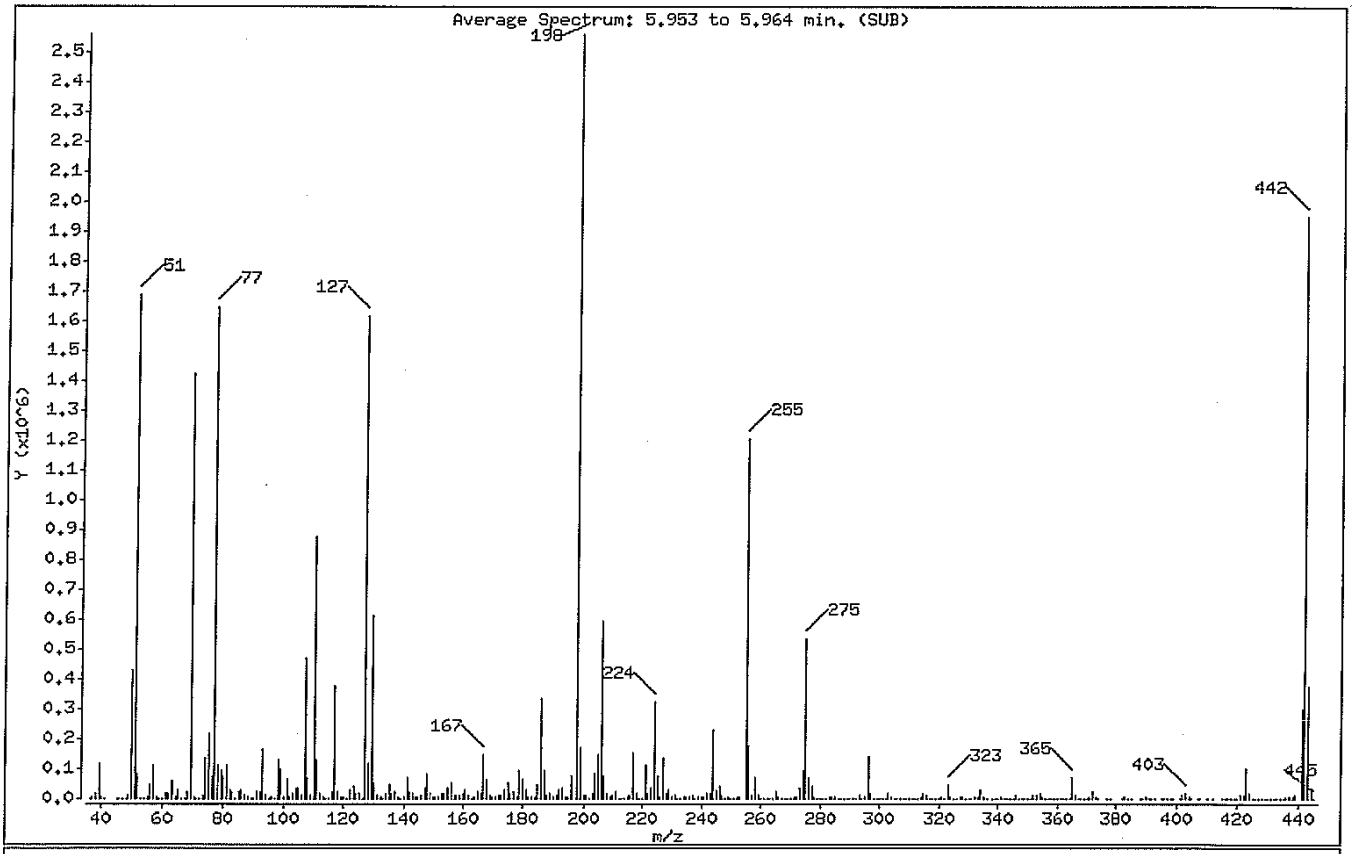
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: LG

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	66.03
68	Less than 2.00% of mass 69	0.82 (1.48)
69	Mass 69 relative abundance	55.67
70	Less than 2.00% of mass 69	0.25 (0.45)
127	10.00 - 80.00% of mass 198	63.13
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.75
275	10.00 - 60.00% of mass 198	20.97
365	1.00 - 100.00% of mass 198	2.82
441	Present, but less than mass 443	11.68
442	50.00 - 150.00% of mass 198	76.28
443	15.00 - 24.00% of mass 442	14.74 (19.32)

Data File: \\alshsws008\target\chem\SV6.i\100816.b\001.D

Date : 16-AUG-2010 13:37

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: LG

Column phase: DB-5MS

Column diameter: 0.25

Data File: 001.D
Spectrum: Average Spectrum: 5.953 to 5.964 min. (SUB)
Location of Maximum: 198.00
Number of points: 389

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	738	137.00	21752	236.00	6260	335.00	7193
37.00	5099	138.00	6809	237.00	9483	336.00	1138
38.00	18216	139.00	2930	238.00	1614	338.00	55
39.00	115712	140.00	7226	239.00	4866	339.00	993
40.00	4706	141.00	70112	240.00	3727	340.00	901
41.00	2381	142.00	23680	241.00	7012	341.00	5602
45.00	2345	143.00	15537	242.00	15861	342.00	1495
46.00	14	144.00	4553	243.00	18024	343.00	325
47.00	185	145.00	3690	244.00	229696	344.00	159
48.00	784	146.00	12366	245.00	31216	345.00	265
49.00	9024	147.00	35720	246.00	43584	346.00	9736
50.00	427456	148.00	83776	247.00	9720	347.00	2137
51.00	1690624	149.00	16920	248.00	2424	348.00	266
52.00	82336	150.00	4393	249.00	8572	349.00	247
53.00	2683	151.00	8481	250.00	2463	350.00	670
54.00	507	152.00	5992	251.00	2475	351.00	1043
55.00	5691	153.00	20056	252.00	3417	352.00	14195
56.00	45256	154.00	16209	253.00	8152	353.00	10116
57.00	110712	155.00	37064	255.00	1204224	354.00	14792
58.00	5124	156.00	55024	256.00	174016	355.00	2963
59.00	1399	157.00	10844	257.00	13537	356.00	529
60.00	804	158.00	11485	258.00	67824	357.00	458
61.00	17416	159.00	9302	259.00	10477	358.00	339
62.00	20184	160.00	19728	260.00	2104	359.00	1315
63.00	58192	161.00	31464	261.00	2027	360.00	382
64.00	7739	162.00	8965	262.00	306	361.00	1060
65.00	29552	163.00	2741	263.00	419	362.00	363
66.00	1762	164.00	3271	264.00	2280	363.00	759
67.00	1382	165.00	24968	265.00	26432	364.00	558
68.00	21104	166.00	20592	266.00	4271	365.00	72328
69.00	1425408	167.00	144320	267.00	823	366.00	10188
70.00	6448	168.00	61848	268.00	567	367.00	1038
71.00	955	169.00	11265	269.00	582	368.00	144
72.00	261	170.00	3831	270.00	1516	369.00	55
73.00	9408	171.00	5249	271.00	2996	370.00	1696

Data File: \\alshsws008\target\chem\SV6.i\100816.b\001.D

Date : 16-AUG-2010 13:37

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: LG

Column phase: DB-5MS

Column diameter: 0.25

Data File: 001.D
Spectrum: Average Spectrum: 5.953 to 5.964 min. (SUB)
Location of Maximum: 198.00
Number of points: 389

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	137664	172.00	11160	272.00	4880	371.00	3857
75.00	220608	173.00	13959	273.00	35880	372.00	25096
76.00	77608	174.00	28456	274.00	91664	373.00	6966
77.00	1646592	175.00	50552	275.00	536896	374.00	671
78.00	109752	176.00	15333	276.00	70736	377.00	507
79.00	94664	177.00	22104	277.00	43936	378.00	211
80.00	74464	178.00	7712	278.00	6763	382.00	55
81.00	109240	179.00	91488	279.00	1215	383.00	6914
82.00	27608	180.00	62264	280.00	239	384.00	1611
83.00	25536	181.00	30824	281.00	381	385.00	573
84.00	1989	182.00	4846	282.00	1279	388.00	121
85.00	20744	183.00	3449	283.00	4841	389.00	102
86.00	30088	184.00	6959	284.00	3009	390.00	4087
87.00	12342	185.00	45864	285.00	7566	391.00	2438
88.00	4856	186.00	335616	286.00	1349	392.00	1789
89.00	2339	187.00	94720	287.00	232	393.00	422
90.00	581	188.00	9991	288.00	541	395.00	206
91.00	23776	189.00	19512	289.00	2009	396.00	209
92.00	25464	190.00	3401	290.00	1838	397.00	196
93.00	167296	191.00	9704	291.00	1399	398.00	238
94.00	11444	192.00	29784	292.00	2056	399.00	155
95.00	2730	193.00	34200	293.00	9852	401.00	1760
96.00	7803	194.00	8324	294.00	2858	402.00	10361
97.00	2792	195.00	5692	295.00	3149	403.00	15218
98.00	129872	196.00	74080	296.00	142912	404.00	5458
99.00	98112	198.00	2560512	297.00	20488	405.00	759
100.00	8622	199.00	172928	298.00	1563	407.00	64
101.00	63288	200.00	13168	299.00	330	408.00	147
102.00	3343	201.00	11612	300.00	112	410.00	686
103.00	18904	202.00	1044	301.00	1921	412.00	67
104.00	37008	203.00	16464	302.00	2493	415.00	932
105.00	34472	204.00	81656	303.00	17704	416.00	361
106.00	11800	205.00	144448	304.00	5164	417.00	303
107.00	472576	206.00	592576	305.00	590	418.00	702
108.00	68200	207.00	75080	306.00	180	419.00	478

Data File: \\alshsws008\target\chem\SV6.i\100816.b\001.D

Date : 16-AUG-2010 13:37

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: LG

Column phase: DB-5MS

Column diameter: 0.25

Data File: 001.D
Spectrum: Average Spectrum: 5.953 to 5.964 min. (SUB)
Location of Maximum: 196.00
Number of points: 389

m/z	Y	m/z	Y	m/z	Y	m/z	Y
109.00	13661	208.00	18952	307.00	333	420.00	818
110.00	878784	209.00	5355	308.00	2200	421.00	14011
111.00	129704	210.00	9769	309.00	1432	422.00	12787
112.00	15072	211.00	21256	310.00	2203	423.00	98976
113.00	4799	212.00	947	311.00	596	424.00	19920
114.00	1113	213.00	1819	312.00	1144	425.00	1640
115.00	1562	214.00	834	313.00	1458	426.00	392
116.00	23960	215.00	6376	314.00	7531	427.00	580
117.00	376128	216.00	12977	315.00	15912	428.00	206
118.00	26296	217.00	152576	316.00	9163	429.00	216
119.00	3347	218.00	20048	317.00	1810	430.00	894
120.00	5756	219.00	2069	318.00	300	431.00	750
121.00	1868	220.00	1346	319.00	472	432.00	936
122.00	27872	221.00	112248	320.00	656	433.00	1237
123.00	43736	222.00	15565	321.00	4576	434.00	980
124.00	19872	223.00	35704	322.00	2827	435.00	2329
125.00	19008	224.00	321280	323.00	47704	436.00	3604
126.00	2706	225.00	78392	324.00	8711	437.00	4399
127.00	1616384	226.00	8414	325.00	891	438.00	4333
128.00	120352	227.00	133056	326.00	891	439.00	9452
129.00	613760	228.00	18296	327.00	8458	441.00	299136
130.00	51872	229.00	26544	328.00	3703	442.00	1953280
131.00	10422	230.00	3834	329.00	1064	443.00	377344
132.00	4720	231.00	10761	330.00	489	444.00	34504
133.00	1740	232.00	2307	331.00	365	445.00	1965
134.00	15537	233.00	2061	332.00	3525		
135.00	47120	234.00	7655	333.00	4677		
136.00	18752	235.00	8786	334.00	30272		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100816.b\003.D
Lab Smp Id: SLSTD-0.2 Client Smp ID: SLSTD-0.2
Inj Date : 16-AUG-2010 14:11 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SLSTD-0.2;SLSTD-0.2
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100816.b\R8270DLL.m
Meth Date : 20-Sep-2010 15:38 SV6.i Quant Type: ISTD
Cal Date : 18-MAR-2010 20:46 Cal File: 21.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.714	3.714	(1.000)	417846	2.00000	
$ 9 2-Fluorophenol	112	2.767	2.767	(0.745)	66336	0.20000	0.20
$ 13 Phenol-d6	99	3.382	3.382	(0.911)	88102	0.20000	0.20
* 45 Naphthalene-d8	136	4.826	4.826	(1.000)	1694727	2.00000	
$ 33 Nitrobenzene-d5	82	4.174	4.168	(0.865)	74103	0.20000	0.20
* 86 Acenaphthene-d10	164	6.511	6.506	(1.000)	815170	2.00000	
$ 69 2-Fluorobiphenyl	172	5.848	5.848	(0.898)	114747	0.20000	0.20
* 126 Phenanthrene-d10	188	7.966	7.966	(1.000)	1291625	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.281	7.281	(1.118)	11754	0.20000	0.19(a)
* 182 Chrysene-d12	240	10.854	10.849	(1.000)	1101030	2.00000	
$ 158 4-Terphenyl-d14	244	9.570	9.565	(0.882)	86865	0.20000	0.19(a)
* 198 Perylene-d12	264	12.956	12.956	(1.000)	1017105	2.00000	
12 Benzaldehyde	77	3.371	3.371	(0.908)	57627	0.20000	0.21
14 Phenol	94	3.393	3.393	(0.914)	86752	0.20000	0.20
17 Bis(2-chloroethyl)ether	93	3.478	3.478	(0.937)	72031	0.20000	0.20
18 2-Chlorophenol	128	3.542	3.542	(0.954)	66581	0.20000	0.20
24 2-Methylphenol	108	3.885	3.885	(1.046)	59228	0.20000	0.20
29 3&4-Methylphenol	107	4.013	4.013	(1.081)	69399	0.20000	0.20
25 bis(2-Chloroisopropyl)ether	45	3.917	3.917	(1.055)	128187	0.20000	0.20
27 Acetophenone	105	4.034	4.034	(0.836)	96388	0.20000	0.20
28 N-Nitroso-di-n-propylamine	70	4.029	4.029	(1.085)	49792	0.20000	0.20
31 Hexachloroethane	117	4.147	4.147	(1.117)	30970	0.20000	0.21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	4.190	4.190	(0.868)	70159	0.20000	0.19(a)
36 Isophorone	82	4.398	4.393	(0.911)	129165	0.20000	0.19(a)
37 2-Nitrophenol	139	4.473	4.473	(0.927)	28337	0.20000	0.19(aQ)
40 2,4-Dimethylphenol	122	4.494	4.494	(0.931)	58733	0.20000	0.20
41 Bis(2-chloroethoxy)methane	93	4.580	4.580	(0.949)	85237	0.20000	0.20
43 2,4-Dichlorophenol	162	4.682	4.687	(0.970)	47390	0.20000	0.20
46 Naphthalene	128	4.847	4.842	(1.004)	189016	0.20000	0.20
48 4-Chloroaniline	127	4.885	4.885	(1.012)	79793	0.20000	0.20
51 Hexachlorobutadiene	225	4.965	4.965	(1.029)	22379	0.20000	0.20
57 Caprolactam	113	5.184	5.179	(1.074)	17708	0.20000	0.19(a)
58 4-Chloro-3-Methylphenol	107	5.334	5.334	(1.105)	56711	0.20000	0.20
61 2-Methylnaphthalene	141	5.500	5.495	(1.140)	98857	0.20000	0.20
63 Hexachlorocyclopentadiene	237	5.660	5.655	(0.869)	22423	0.20000	0.19(a)
66 2,4,6-Trichlorophenol	196	5.767	5.767	(0.886)	30705	0.20000	0.21
68 2,4,5-Trichlorophenol	196	5.800	5.799	(0.891)	28126	0.20000	0.19(a)
73 1,1'-Biphenyl	154	5.944	5.944	(0.913)	136139	0.20000	0.20
74 2-Chloronaphthalene	162	5.965	5.965	(0.916)	110776	0.20000	0.19(a)
77 2-Nitroaniline	65	6.056	6.056	(0.930)	36472	0.20000	0.19(a)
80 Dimethylphthalate	163	6.238	6.238	(0.958)	113647	0.20000	0.20
82 2,6-Dinitrotoluene	165	6.292	6.292	(0.966)	22104	0.20000	0.18(a)
83 Acenaphthylene	152	6.372	6.372	(0.979)	165219	0.20000	0.20
85 3-Nitroaniline	138	6.457	6.452	(0.992)	29544	0.20000	0.19(a)
88 Acenaphthene	154	6.543	6.538	(1.005)	102319	0.20000	0.20
89 2,4-Dinitrophenol	184	6.564	6.554	(1.008)	7576	0.20000	0.22(Q)
90 4-Nitrophenol	109	6.613	6.612	(1.016)	17292	0.20000	0.19(a)
92 Dibenzofuran	168	6.709	6.709	(1.030)	140054	0.20000	0.20
93 2,4-Dinitrotoluene	165	6.687	6.687	(1.027)	25124	0.20000	0.16(a)
97 Diethylphthalate	149	6.928	6.928	(1.064)	117362	0.20000	0.19(a)
98 Fluorene	166	7.046	7.046	(1.082)	118588	0.20000	0.20
99 4-Chlorophenyl phenyl ether	204	7.046	7.040	(1.082)	46003	0.20000	0.21
100 4-Nitroaniline	138	7.051	7.051	(1.083)	26844	0.20000	0.17(a)
101 4,6-Dinitro-2-methylphenol	198	7.089	7.083	(0.890)	9997	0.20000	0.19(a)
102 N-Nitrosodiphenylamine	169	7.158	7.153	(0.899)	93258	0.20000	0.19(a)
112 4-Bromophenyl-phenylether	248	7.527	7.522	(0.945)	24097	0.20000	0.19(a)
113 Hexachlorobenzene	284	7.597	7.597	(0.954)	24364	0.20000	0.19(a)
118 Atrazine	200	7.677	7.677	(0.964)	25227	0.20000	0.19(a)
121 Pentachlorophenol	266	7.784	7.778	(0.977)	10174	0.20000	0.16(a)
128 Phenanthrene	178	7.992	7.987	(1.003)	162177	0.20000	0.21
130 Anthracene	178	8.041	8.035	(1.009)	146054	0.20000	0.19(a)
134 Carbazole	167	8.196	8.190	(1.029)	153146	0.20000	0.20
140 Di-n-butylphthalate	149	8.543	8.538	(1.073)	187918	0.20000	0.19(a)
149 Fluoranthene	202	9.169	9.169	(1.151)	135361	0.20000	0.19(a)
155 Pyrene	202	9.405	9.399	(0.866)	148821	0.20000	0.19(a)
173 Butylbenzylphthalate	149	10.132	10.127	(0.933)	75688	0.20000	0.18(a)
180 3,3'-Dichlorobenzidine	252	10.806	10.806	(0.996)	39344	0.20000	0.19(a)
181 Benzo(a)Anthracene	228	10.838	10.833	(0.999)	131751	0.20000	0.20
183 Chrysene	228	10.886	10.886	(1.003)	130161	0.20000	0.20
184 bis(2-ethylhexyl)phthalate	149	10.897	10.891	(1.004)	109188	0.20000	0.18(a)
190 Di-n-octylphthalate	149	11.838	11.833	(0.914)	173443	0.20000	0.18(a)
192 Benzo(b)fluoranthene	252	12.384	12.384	(0.956)	117360	0.20000	0.19(a)
195 Benzo(k)fluoranthene	252	12.427	12.421	(0.959)	129157	0.20000	0.20
197 Benzo(a)pyrene	252	12.876	12.865	(0.994)	107424	0.20000	0.18(a)
209 Indeno(1,2,3-cd)pyrene	276	14.539	14.539	(1.122)	103266	0.20000	0.18(aM)
210 Dibenzo(a,h)anthracene	278	14.577	14.571	(1.125)	103575	0.20000	0.19(a)

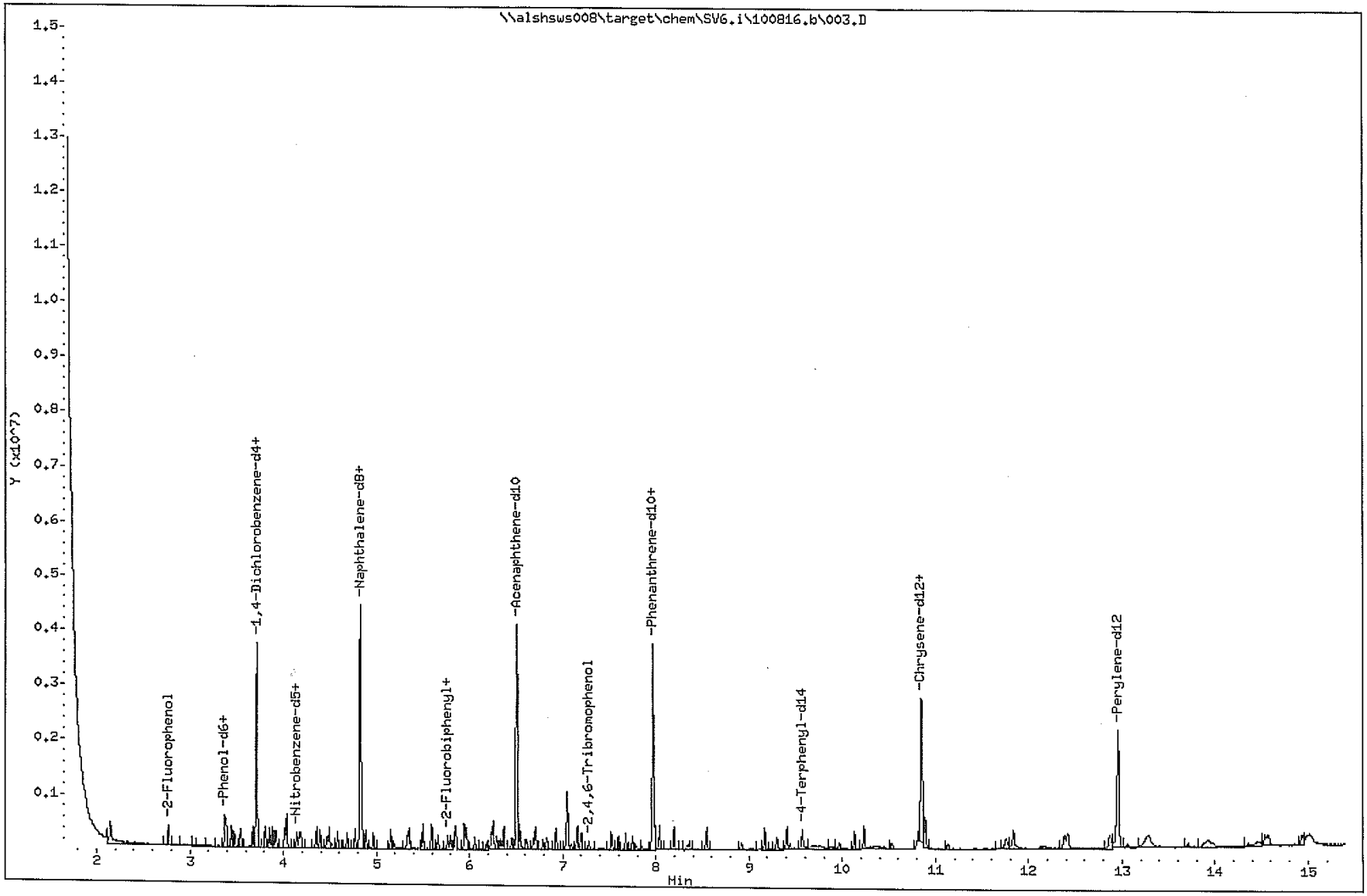
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	14.935	14.935	(1.153)	104180	0.20000	0.18(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100816.b\003.D
Date : 16-AUG-2010 14:11
Client ID: SLSTD-0.2
Sample Info: SLSTD-0.2;SLSTD-0.2
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100816.b\004.D
Lab Smp Id: SLSTD-0.5 Client Smp ID: SLSTD-0.5
Inj Date : 16-AUG-2010 14:30 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SLSTD-0.5;SLSTD-0.5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100816.b\R8270DLL.m
Meth Date : 20-Sep-2010 15:38 SV6.i Quant Type: ISTD
Cal Date : 18-MAR-2010 20:46 Cal File: 21.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.713	3.714	(1.000)	301322	2.00000	
$ 9 2-Fluorophenol	112	2.761	2.767	(0.744)	120033	0.50000	0.51
$ 13 Phenol-d6	99	3.382	3.382	(0.911)	159331	0.50000	0.52
* 45 Naphthalene-d8	136	4.826	4.826	(1.000)	1228337	2.00000	
$ 33 Nitrobenzene-d5	82	4.173	4.168	(0.865)	134881	0.50000	0.50
* 86 Acenaphthene-d10	164	6.511	6.506	(1.000)	593060	2.00000	
$ 69 2-Fluorobiphenyl	172	5.848	5.848	(0.898)	206806	0.50000	0.50
* 126 Phenanthrene-d10	188	7.966	7.966	(1.000)	948915	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.281	7.281	(1.118)	20078	0.50000	0.46
* 182 Chrysene-d12	240	10.849	10.849	(1.000)	796279	2.00000	
$ 158 4-Terphenyl-d14	244	9.565	9.565	(0.882)	166318	0.50000	0.52
* 198 Perylene-d12	264	12.956	12.956	(1.000)	713189	2.00000	
12 Benzaldehyde	77	3.371	3.371	(0.908)	103513	0.50000	0.53
14 Phenol	94	3.393	3.393	(0.914)	160797	0.50000	0.52
17 Bis(2-chloroethyl)ether	93	3.478	3.478	(0.937)	134555	0.50000	0.52
18 2-Chlorophenol	128	3.542	3.542	(0.954)	120270	0.50000	0.51
24 2-Methylphenol	108	3.885	3.885	(1.046)	111030	0.50000	0.52
29 3&4-Methylphenol	107	4.013	4.013	(1.081)	130973	0.50000	0.52
25 bis(2-Chloroisopropyl)ether	45	3.922	3.917	(1.056)	232288	0.50000	0.51
27 Acetophenone	105	4.040	4.034	(0.837)	173892	0.50000	0.51
28 N-Nitroso-di-n-propylamine	70	4.029	4.029	(1.085)	90934	0.50000	0.51
31 Hexachloroethane	117	4.147	4.147	(1.117)	53650	0.50000	0.50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	4.189	4.190	(0.868)	129653	0.50000	0.50
36 Isophorone	82	4.398	4.393	(0.911)	237905	0.50000	0.50
37 2-Nitrophenol	139	4.473	4.473	(0.927)	50401	0.50000	0.46
40 2,4-Dimethylphenol	122	4.494	4.494	(0.931)	107713	0.50000	0.52
41 Bis(2-chloroethoxy)methane	93	4.580	4.580	(0.949)	153971	0.50000	0.51
43 2,4-Dichlorophenol	162	4.687	4.687	(0.971)	83861	0.50000	0.51
46 Naphthalene	128	4.847	4.842	(1.004)	355189	0.50000	0.53
48 4-Chloroaniline	127	4.885	4.885	(1.012)	146921	0.50000	0.52
51 Hexachlorobutadiene	225	4.965	4.965	(1.029)	41248	0.50000	0.52
57 Caprolactam	113	5.179	5.179	(1.073)	30227	0.50000	0.45
58 4-Chloro-3-Methylphenol	107	5.334	5.334	(1.105)	98562	0.50000	0.50
61 2-Methylnaphthalene	141	5.500	5.495	(1.140)	183412	0.50000	0.51
63 Hexachlorocyclopentadiene	237	5.660	5.655	(0.869)	40179	0.50000	0.46
66 2,4,6-Trichlorophenol	196	5.767	5.767	(0.886)	49173	0.50000	0.47
68 2,4,5-Trichlorophenol	196	5.799	5.799	(0.891)	54477	0.50000	0.52
73 1,1'-Biphenyl	154	5.944	5.944	(0.913)	249946	0.50000	0.52
74 2-Chloronaphthalene	162	5.965	5.965	(0.916)	231872	0.50000	0.53
77 2-Nitroaniline	65	6.056	6.056	(0.930)	65684	0.50000	0.47
80 Dimethylphthalate	163	6.238	6.238	(0.958)	206295	0.50000	0.50
82 2,6-Dinitrotoluene	165	6.291	6.292	(0.966)	41184	0.50000	0.46
83 Acenaphthylene	152	6.372	6.372	(0.979)	312539	0.50000	0.52
85 3-Nitroaniline	138	6.457	6.452	(0.992)	53416	0.50000	0.47
88 Acenaphthene	154	6.543	6.538	(1.005)	186590	0.50000	0.50
89 2,4-Dinitrophenol	184	6.559	6.554	(1.007)	12589	0.50000	0.40(QM)
90 4-Nitrophenol	109	6.612	6.612	(1.016)	29018	0.50000	0.45
92 Dibenzofuran	168	6.709	6.709	(1.030)	260783	0.50000	0.52
93 2,4-Dinitrotoluene	165	6.682	6.687	(1.026)	51993	0.50000	0.46(Q)
97 Diethylphthalate	149	6.928	6.928	(1.064)	221468	0.50000	0.51
98 Fluorene	166	7.046	7.046	(1.082)	218866	0.50000	0.52
99 4-Chlorophenyl phenyl ether	204	7.040	7.040	(1.081)	86440	0.50000	0.54
100 4-Nitroaniline	138	7.051	7.051	(1.083)	52534	0.50000	0.46
101 4,6-Dinitro-2-methylphenol	198	7.088	7.083	(0.890)	20401	0.50000	0.45
102 N-Nitrosodiphenylamine	169	7.153	7.153	(0.898)	173987	0.50000	0.50
112 4-Bromophenyl-phenylether	248	7.527	7.522	(0.945)	45846	0.50000	0.51
113 Hexachlorobenzene	284	7.597	7.597	(0.954)	46234	0.50000	0.51
118 Atrazine	200	7.677	7.677	(0.964)	48115	0.50000	0.50
121 Pentachlorophenol	266	7.784	7.778	(0.977)	20736	0.50000	0.45
128 Phenanthrene	178	7.987	7.987	(1.003)	294394	0.50000	0.51
130 Anthracene	178	8.040	8.035	(1.009)	281753	0.50000	0.50
134 Carbazole	167	8.190	8.190	(1.028)	280605	0.50000	0.50
140 Di-n-butylphthalate	149	8.538	8.538	(1.072)	350202	0.50000	0.49
149 Fluoranthene	202	9.169	9.169	(1.151)	254112	0.50000	0.48
155 Pyrene	202	9.404	9.399	(0.867)	278492	0.50000	0.51
173 Butylbenzylphthalate	149	10.126	10.127	(0.933)	143355	0.50000	0.48
180 3,3'-Dichlorobenzidine	252	10.806	10.806	(0.996)	70459	0.50000	0.47
181 Benzo(a)Anthracene	228	10.832	10.833	(0.999)	233610	0.50000	0.50
183 Chrysene	228	10.886	10.886	(1.003)	238155	0.50000	0.52
184 bis(2-ethylhexyl)phthalate	149	10.891	10.891	(1.004)	198661	0.50000	0.46
190 Di-n-octylphthalate	149	11.838	11.833	(0.914)	301969	0.50000	0.44
192 Benzo(b)fluoranthene	252	12.384	12.384	(0.956)	216671	0.50000	0.50
195 Benzo(k)fluoranthene	252	12.421	12.421	(0.959)	229024	0.50000	0.51
197 Benzo(a)pyrene	252	12.870	12.865	(0.993)	204633	0.50000	0.50
209 Indeno(1,2,3-cd)pyrene	276	14.539	14.539	(1.122)	196916	0.50000	0.50(M)
210 Dibenzo(a,h)anthracene	278	14.577	14.571	(1.125)	191952	0.50000	0.50

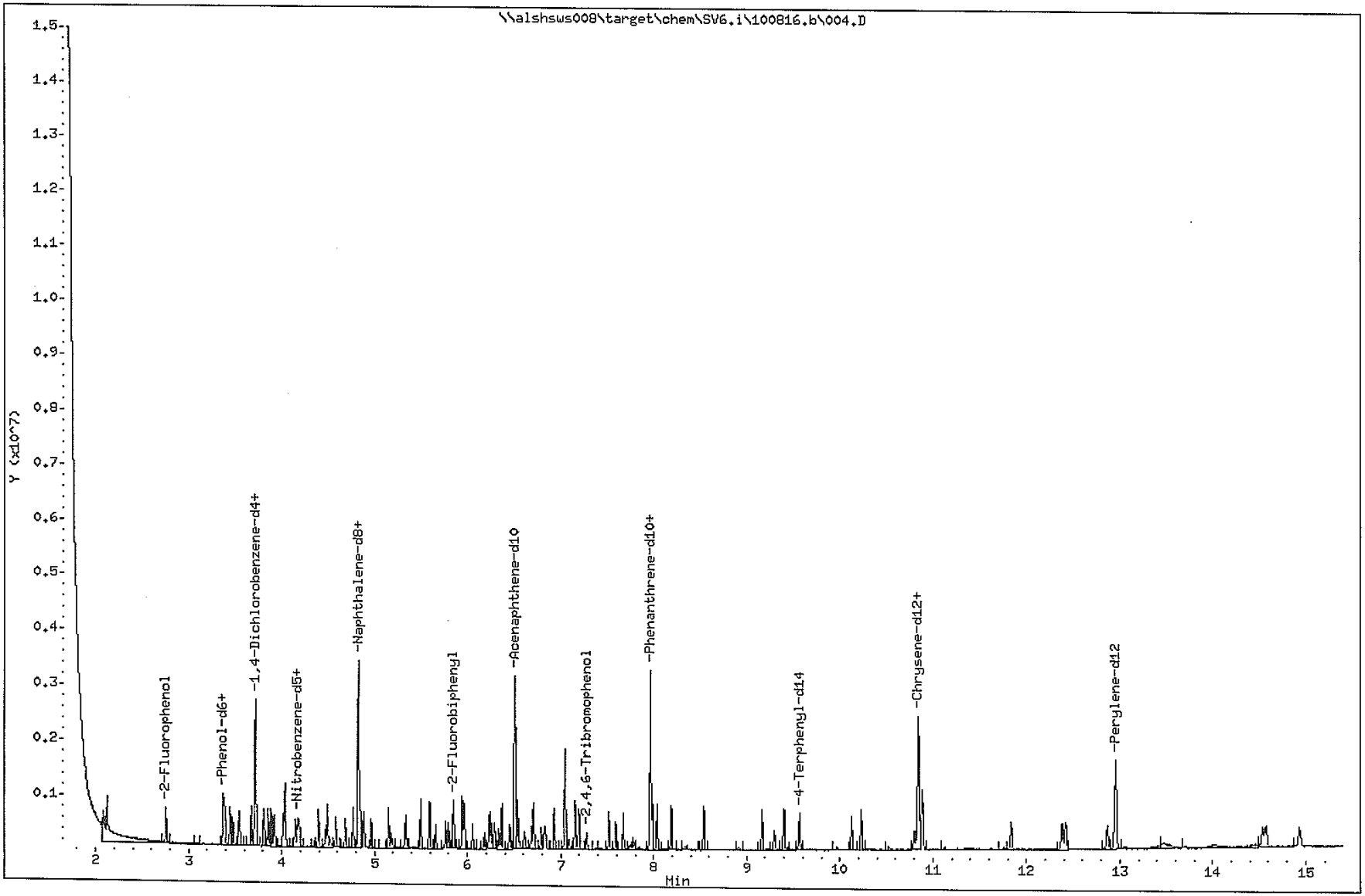
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	14.935	14.935	(1.153)	206454	0.50000	0.52

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100816.b\004.D
Date : 16-AUG-2010 14:30
Client ID: SLSTD-0.5
Sample Info: SLSTD-0.5;SLSTD-0.5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LC
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100816.b\005.D
Lab Smp Id: SLSTD-1.0 Client Smp ID: SLSTD-1.0
Inj Date : 16-AUG-2010 14:50 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SLSTD-1.0;SLSTD-1.0
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100816.b\R8270DLL.m
Meth Date : 20-Sep-2010 15:38 SV6.i Quant Type: ISTD
Cal Date : 18-MAR-2010 20:46 Cal File: 21.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.714	3.714	(1.000)	348816	2.00000	
$ 9 2-Fluorophenol	112	2.767	2.767	(0.745)	270471	1.00000	1.00
$ 13 Phenol-d6	99	3.382	3.382	(0.911)	352170	1.00000	0.99
* 45 Naphthalene-d8	136	4.826	4.826	(1.000)	1408890	2.00000	
$ 33 Nitrobenzene-d5	82	4.168	4.168	(0.864)	304203	1.00000	0.99
* 86 Acenaphthene-d10	164	6.506	6.506	(1.000)	689241	2.00000	
$ 69 2-Fluorobiphenyl	172	5.848	5.848	(0.899)	484276	1.00000	1.01
* 126 Phenanthrene-d10	188	7.966	7.966	(1.000)	1072104	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.281	7.281	(1.119)	48660	1.00000	0.96
* 182 Chrysene-d12	240	10.849	10.849	(1.000)	907029	2.00000	
$ 158 4-Terphenyl-d14	244	9.565	9.565	(0.882)	377553	1.00000	1.03
* 198 Perylene-d12	264	12.956	12.956	(1.000)	844462	2.00000	
12 Benzaldehyde	77	3.371	3.371	(0.908)	224650	1.00000	1.01
14 Phenol	94	3.393	3.393	(0.914)	355102	1.00000	1.01
17 Bis(2-chloroethyl)ether	93	3.478	3.478	(0.937)	302918	1.00000	1.02
18 2-Chlorophenol	128	3.542	3.542	(0.954)	265552	1.00000	0.98
24 2-Methylphenol	108	3.885	3.885	(1.046)	244767	1.00000	0.99
29 3&4-Methylphenol	107	4.013	4.013	(1.081)	286033	1.00000	0.99
25 bis(2-Chloroisopropyl)ether	45	3.917	3.917	(1.055)	521942	1.00000	1.00
27 Acetophenone	105	4.034	4.034	(0.836)	394989	1.00000	1.02
28 N-Nitroso-di-n-propylamine	70	4.029	4.029	(1.085)	199731	1.00000	0.97
31 Hexachloroethane	117	4.147	4.147	(1.117)	124722	1.00000	1.01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	4.190	4.190	(0.868)	298690	1.00000	1.00
36 Isophorone	82	4.393	4.393	(0.910)	536023	1.00000	0.99
37 2-Nitrophenol	139	4.473	4.473	(0.927)	117073	1.00000	0.94
40 2,4-Dimethylphenol	122	4.494	4.494	(0.931)	223757	1.00000	0.94
41 Bis(2-chloroethoxy)methane	93	4.580	4.580	(0.949)	345830	1.00000	1.01
43 2,4-Dichlorophenol	162	4.687	4.687	(0.971)	186540	1.00000	0.99
46 Naphthalene	128	4.847	4.842	(1.004)	778449	1.00000	1.02
48 4-Chloroaniline	127	4.885	4.885	(1.012)	330246	1.00000	1.01
51 Hexachlorobutadiene	225	4.965	4.965	(1.029)	90752	1.00000	1.00
57 Caprolactam	113	5.179	5.179	(1.073)	71769	1.00000	0.94
58 4-Chloro-3-Methylphenol	107	5.334	5.334	(1.105)	218275	1.00000	0.96
61 2-Methylnaphthalene	141	5.495	5.495	(1.139)	413354	1.00000	1.01
63 Hexachlorocyclopentadiene	237	5.660	5.655	(0.870)	94136	1.00000	0.94
66 2,4,6-Trichlorophenol	196	5.767	5.767	(0.887)	120086	1.00000	1.00
68 2,4,5-Trichlorophenol	196	5.794	5.799	(0.891)	119732	1.00000	0.98
73 1,1'-Biphenyl	154	5.944	5.944	(0.914)	558839	1.00000	1.01
74 2-Chloronaphthalene	162	5.965	5.965	(0.917)	500255	1.00000	1.07
77 2-Nitroaniline	65	6.056	6.056	(0.931)	156610	1.00000	0.96
80 Dimethylphthalate	163	6.238	6.238	(0.959)	484953	1.00000	1.02
82 2,6-Dinitrotoluene	165	6.292	6.292	(0.967)	103625	1.00000	1.01
83 Acenaphthylene	152	6.366	6.372	(0.979)	699431	1.00000	1.00
85 3-Nitroaniline	138	6.452	6.452	(0.992)	130024	1.00000	0.99
88 Acenaphthene	154	6.538	6.538	(1.005)	426267	1.00000	0.99
89 2,4-Dinitrophenol	184	6.554	6.554	(1.007)	39158	1.00000	0.92(Q)
90 4-Nitrophenol	109	6.613	6.612	(1.016)	67035	1.00000	0.89
92 Dibenzofuran	168	6.709	6.709	(1.031)	583217	1.00000	1.00
93 2,4-Dinitrotoluene	165	6.682	6.687	(1.027)	131113	1.00000	1.00
97 Diethylphthalate	149	6.928	6.928	(1.065)	496823	1.00000	0.99
98 Fluorene	166	7.046	7.046	(1.083)	501060	1.00000	1.03
99 4-Chlorophenyl phenyl ether	204	7.040	7.040	(1.082)	183639	1.00000	0.99
100 4-Nitroaniline	138	7.051	7.051	(1.084)	133680	1.00000	1.01
101 4,6-Dinitro-2-methylphenol	198	7.083	7.083	(0.889)	51894	1.00000	0.95
102 N-Nitrosodiphenylamine	169	7.153	7.153	(0.898)	402214	1.00000	1.03
112 4-Bromophenyl-phenylether	248	7.522	7.522	(0.944)	102894	1.00000	1.02
113 Hexachlorobenzene	284	7.591	7.597	(0.953)	104228	1.00000	1.02
118 Atrazine	200	7.677	7.677	(0.964)	106487	1.00000	0.99
121 Pentachlorophenol	266	7.779	7.778	(0.977)	50490	1.00000	0.96
128 Phenanthrene	178	7.987	7.987	(1.003)	651440	1.00000	1.01
130 Anthracene	178	8.041	8.035	(1.009)	642700	1.00000	1.01
134 Carbazole	167	8.190	8.190	(1.028)	650775	1.00000	1.04
140 Di-n-butylphthalate	149	8.538	8.538	(1.072)	801830	1.00000	1.00
149 Fluoranthene	202	9.164	9.169	(1.150)	593847	1.00000	1.01
155 Pyrene	202	9.399	9.399	(0.866)	645713	1.00000	1.03
173 Butylbenzylphthalate	149	10.127	10.127	(0.933)	337824	1.00000	1.00
180 3,3'-Dichlorobenzidine	252	10.801	10.806	(0.996)	173558	1.00000	1.01
181 Benzo(a)Anthracene	228	10.833	10.833	(0.999)	536724	1.00000	1.01
183 Chrysene	228	10.881	10.886	(1.003)	540372	1.00000	1.05
184 bis(2-ethylhexyl)phthalate	149	10.891	10.891	(1.004)	491677	1.00000	1.02
190 Di-n-octylphthalate	149	11.833	11.833	(0.913)	772761	1.00000	0.97
192 Benzo(b)fluoranthene	252	12.378	12.384	(0.955)	506829	1.00000	0.98
195 Benzo(k)fluoranthene	252	12.421	12.421	(0.959)	538051	1.00000	1.02
197 Benzo(a)pyrene	252	12.865	12.865	(0.993)	472175	1.00000	0.98
209 Indeno(1,2,3-cd)pyrene	276	14.539	14.539	(1.122)	438392	1.00000	0.94(M)
210 Dibenzo(a,h)anthracene	278	14.571	14.571	(1.125)	449217	1.00000	1.00

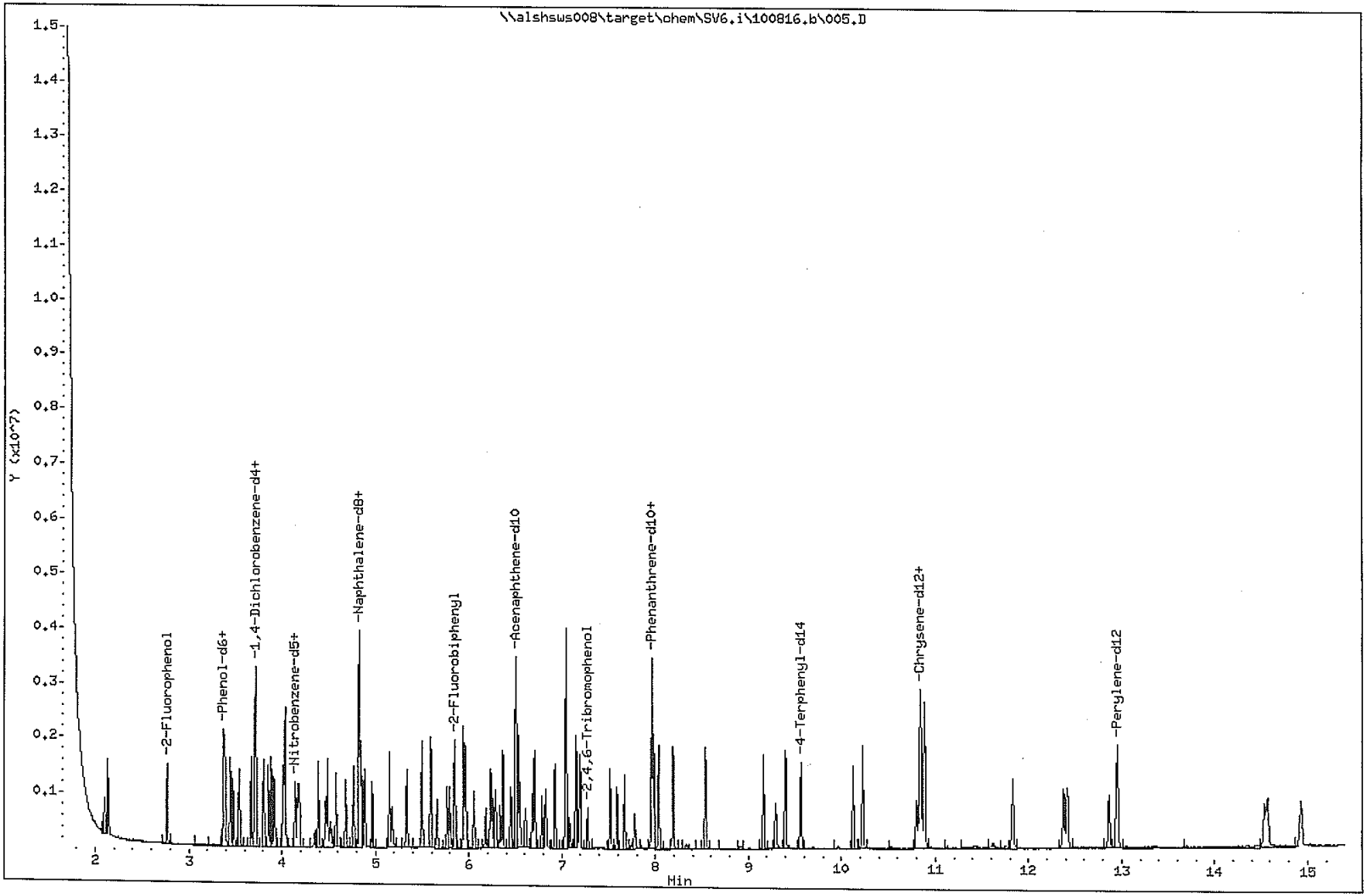
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	14.930	14.935	(1.152)	474442	1.00000	1.01

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100816.b\005.D
Date : 16-AUG-2010 14:50
Client ID: SLSTD-1.0
Sample Info: SLSTD-1.0;SLSTD-1.0
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LC
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100816.b\006.D
Lab Smp Id: SLSTD-5.0 Client Smp ID: SLSTD-5.0
Inj Date : 16-AUG-2010 15:09 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SLSTD-5.0;SLSTD-5.0
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100816.b\R8270DLL.m
Meth Date : 20-Sep-2010 15:38 SV6.i Quant Type: ISTD
Cal Date : 18-MAR-2010 20:46 Cal File: 21.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.714	3.714	(1.000)	445818	2.00000	
$ 9 2-Fluorophenol	112	2.772	2.767	(0.747)	1788029	5.00000	5.20
$ 13 Phenol-d6	99	3.387	3.382	(0.912)	2357638	5.00000	5.21
* 45 Naphthalene-d8	136	4.826	4.826	(1.000)	1806221	2.00000	
$ 33 Nitrobenzene-d5	82	4.174	4.168	(0.865)	2099758	5.00000	5.33
* 86 Acenaphthene-d10	164	6.511	6.506	(1.000)	882970	2.00000	
$ 69 2-Fluorobiphenyl	172	5.848	5.848	(0.898)	3184851	5.00000	5.22
* 126 Phenanthrene-d10	188	7.966	7.966	(1.000)	1426559	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.281	7.281	(1.118)	351000	5.00000	5.43
* 182 Chrysene-d12	240	10.849	10.849	(1.000)	1240065	2.00000	
$ 158 4-Terphenyl-d14	244	9.565	9.565	(0.882)	2584147	5.00000	5.19
* 198 Perylene-d12	264	12.951	12.956	(1.000)	1150349	2.00000	
12 Benzaldehyde	77	3.377	3.371	(0.909)	1459465	5.00000	5.13
14 Phenol	94	3.398	3.393	(0.915)	2307855	5.00000	5.14
17 Bis(2-chloroethyl)ether	93	3.484	3.478	(0.938)	1996777	5.00000	5.26
18 2-Chlorophenol	128	3.548	3.542	(0.955)	1788838	5.00000	5.20
24 2-Methylphenol	108	3.890	3.885	(1.048)	1630327	5.00000	5.20
29 3&4-Methylphenol	107	4.018	4.013	(1.082)	1913868	5.00000	5.21
25 bis(2-Chloroisopropyl)ether	45	3.922	3.917	(1.056)	3463783	5.00000	5.20
27 Acetophenone	105	4.040	4.034	(0.837)	2578596	5.00000	5.21
28 N-Nitroso-di-n-propylamine	70	4.034	4.029	(1.086)	1391351	5.00000	5.29
31 Hexachloroethane	117	4.147	4.147	(1.117)	809938	5.00000	5.15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	4.190	4.190	(0.868)	2033524	5.00000	5.34
36 Isophorone	82	4.398	4.393	(0.911)	3654532	5.00000	5.28
37 2-Nitrophenol	139	4.473	4.473	(0.927)	880410	5.00000	5.55
40 2,4-Dimethylphenol	122	4.494	4.494	(0.931)	1614876	5.00000	5.30
41 Bis(2-chloroethoxy)methane	93	4.580	4.580	(0.949)	2283405	5.00000	5.22
43 2,4-Dichlorophenol	162	4.687	4.687	(0.971)	1256148	5.00000	5.21
46 Naphthalene	128	4.847	4.842	(1.004)	5166884	5.00000	5.30
48 4-Chloroaniline	127	4.885	4.885	(1.012)	2208002	5.00000	5.31
51 Hexachlorobutadiene	225	4.965	4.965	(1.029)	597703	5.00000	5.15
57 Caprolactam	113	5.195	5.179	(1.076)	532362	5.00000	5.46
58 4-Chloro-3-Methylphenol	107	5.340	5.334	(1.106)	1546202	5.00000	5.34
61 2-Methylnaphthalene	141	5.500	5.495	(1.140)	2765264	5.00000	5.28
63 Hexachlorocyclopentadiene	237	5.660	5.655	(0.869)	701043	5.00000	5.49
66 2,4,6-Trichlorophenol	196	5.767	5.767	(0.886)	799124	5.00000	5.22
68 2,4,5-Trichlorophenol	196	5.800	5.799	(0.891)	827792	5.00000	5.31
73 1,1'-Biphenyl	154	5.944	5.944	(0.913)	3688755	5.00000	5.21
74 2-Chloronaphthalene	162	5.965	5.965	(0.916)	2861822	5.00000	5.23
77 2-Nitroaniline	65	6.056	6.056	(0.930)	1128552	5.00000	5.45
80 Dimethylphthalate	163	6.238	6.238	(0.958)	3159534	5.00000	5.20
82 2,6-Dinitrotoluene	165	6.292	6.292	(0.966)	717470	5.00000	5.47
83 Acenaphthylene	152	6.372	6.372	(0.979)	4740739	5.00000	5.30
85 3-Nitroaniline	138	6.457	6.452	(0.992)	908929	5.00000	5.42
88 Acenaphthene	154	6.543	6.538	(1.005)	2894479	5.00000	5.26
89 2,4-Dinitrophenol	184	6.559	6.554	(1.007)	369166	5.00000	5.55(Q)
90 4-Nitrophenol	109	6.613	6.612	(1.016)	548187	5.00000	5.72
92 Dibenzofuran	168	6.709	6.709	(1.030)	3848126	5.00000	5.16
93 2,4-Dinitrotoluene	165	6.687	6.687	(1.027)	954456	5.00000	5.69
97 Diethylphthalate	149	6.928	6.928	(1.064)	3382686	5.00000	5.30
98 Fluorene	166	7.046	7.046	(1.082)	3147935	5.00000	5.08
99 4-Chlorophenyl phenyl ether	204	7.040	7.040	(1.081)	1207133	5.00000	5.10
100 4-Nitroaniline	138	7.051	7.051	(1.083)	933968	5.00000	5.55
101 4,6-Dinitro-2-methylphenol	198	7.089	7.083	(0.890)	461621	5.00000	5.46
102 N-Nitrosodiphenylamine	169	7.153	7.153	(0.898)	2662274	5.00000	5.14
112 4-Bromophenyl-phenylether	248	7.522	7.522	(0.944)	683454	5.00000	5.13
113 Hexachlorobenzene	284	7.597	7.597	(0.954)	705763	5.00000	5.20
118 Atrazine	200	7.677	7.677	(0.964)	736796	5.00000	5.18
121 Pentachlorophenol	266	7.779	7.778	(0.977)	423063	5.00000	5.43
128 Phenanthrene	178	7.987	7.987	(1.003)	4349734	5.00000	5.10
130 Anthracene	178	8.041	8.035	(1.009)	4403436	5.00000	5.24
134 Carbazole	167	8.190	8.190	(1.028)	4286970	5.00000	5.15
140 Di-n-butylphthalate	149	8.538	8.538	(1.072)	5744124	5.00000	5.42
149 Fluoranthene	202	9.164	9.169	(1.150)	4078363	5.00000	5.22
155 Pyrene	202	9.399	9.399	(0.866)	4444528	5.00000	5.22
173 Butylbenzylphthalate	149	10.127	10.127	(0.933)	2497045	5.00000	5.44
180 3,3'-Dichlorobenzidine	252	10.806	10.806	(0.996)	1284523	5.00000	5.51
181 Benzo(a)Anthracene	228	10.838	10.833	(0.999)	3751095	5.00000	5.19
183 Chrysene	228	10.886	10.886	(1.003)	3617303	5.00000	5.14
184 bis(2-ethylhexyl)phthalate	149	10.891	10.891	(1.004)	3605502	5.00000	5.47
190 Di-n-octylphthalate	149	11.833	11.833	(0.914)	6002031	5.00000	5.53
192 Benzo(b)fluoranthene	252	12.384	12.384	(0.956)	3622217	5.00000	5.19
195 Benzo(k)fluoranthene	252	12.421	12.421	(0.959)	3803925	5.00000	5.31
197 Benzo(a)pyrene	252	12.870	12.865	(0.994)	3463080	5.00000	5.32
209 Indeno(1,2,3-cd)pyrene	276	14.545	14.539	(1.123)	3431566	5.00000	5.43(M)
210 Dibenzo(a,h)anthracene	278	14.577	14.571	(1.126)	3249316	5.00000	5.33

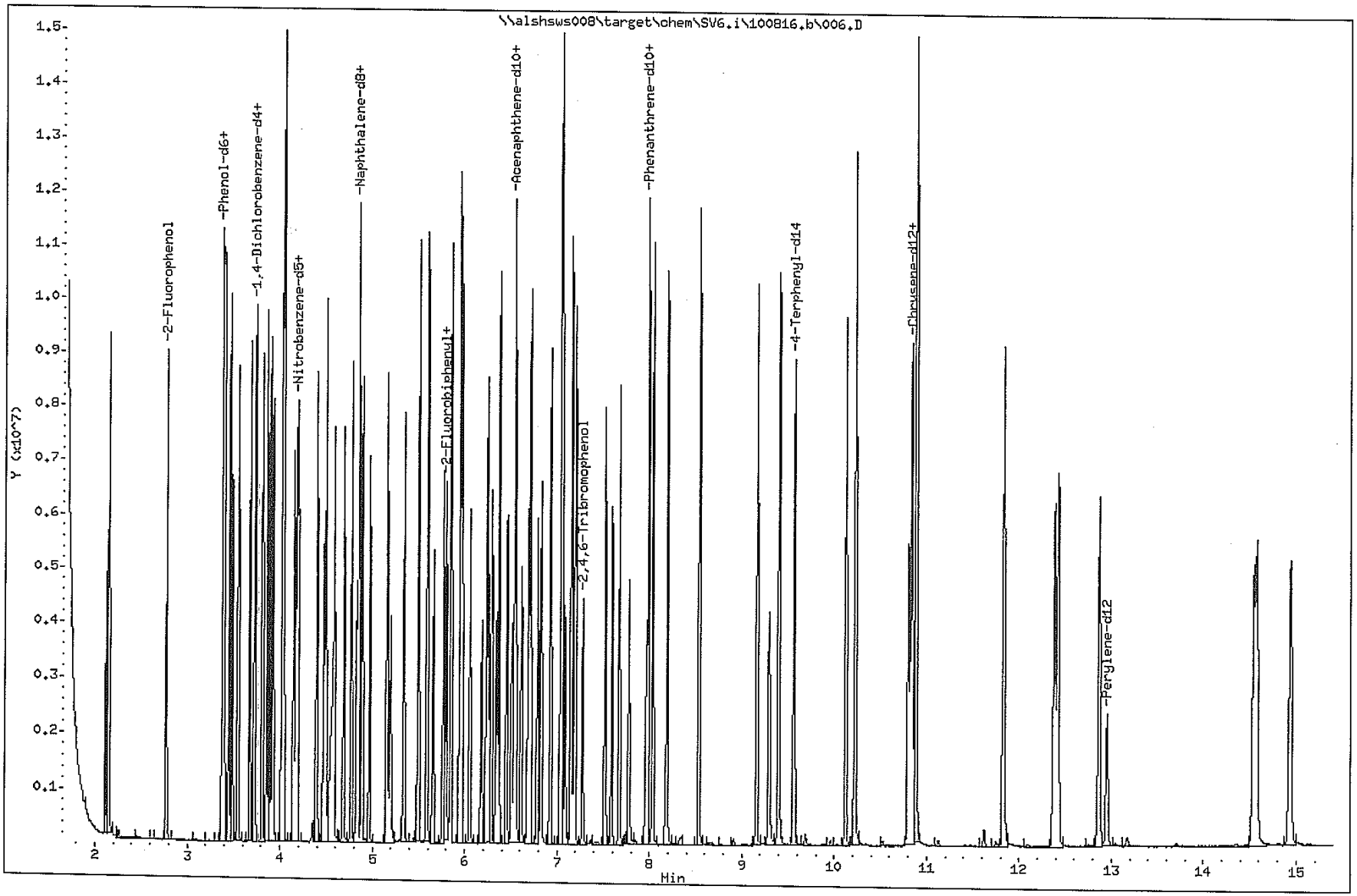
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	14.940	14.935	(1.154)	3311638	5.00000	5.21

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100816.b\006.D
Date : 16-AUG-2010 15:09
Client ID: SLSTD-5.0
Sample Info: SLSTD-5.0;SLSTD-5.0
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LC
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100816.b\007.D
Lab Smp Id: SLSTD-7.5 Client Smp ID: SLSTD-7.5
Inj Date : 16-AUG-2010 15:29 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SLSTD-7.5;SLSTD-7.5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100816.b\R8270DLL.m
Meth Date : 20-Sep-2010 15:38 SV6.i Quant Type: ISTD
Cal Date : 18-MAR-2010 20:46 Cal File: 21.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.713	3.714	(1.000)	392351	2.00000	
$ 9 2-Fluorophenol	112	2.767	2.767	(0.745)	2008892	7.50000	6.64
$ 13 Phenol-d6	99	3.387	3.382	(0.912)	2665303	7.50000	6.70
* 45 Naphthalene-d8	136	4.826	4.826	(1.000)	1612167	2.00000	
$ 33 Nitrobenzene-d5	82	4.173	4.168	(0.865)	2366524	7.50000	6.74
* 86 Acenaphthene-d10	164	6.511	6.506	(1.000)	773175	2.00000	
$ 69 2-Fluorobiphenyl	172	5.848	5.848	(0.898)	3594928	7.50000	6.73
* 126 Phenanthrene-d10	188	7.966	7.966	(1.000)	1230799	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.281	7.281	(1.118)	400882	7.50000	7.09
* 182 Chrysene-d12	240	10.854	10.849	(1.000)	1099473	2.00000	
$ 158 4-Terphenyl-d14	244	9.565	9.565	(0.881)	2979223	7.50000	6.75
* 198 Perylene-d12	264	12.956	12.956	(1.000)	993118	2.00000	
12 Benzaldehyde	77	3.376	3.371	(0.909)	1651220	7.50000	6.60
14 Phenol	94	3.398	3.393	(0.915)	2622813	7.50000	6.63
17 Bis(2-chloroethyl)ether	93	3.483	3.478	(0.938)	2320802	7.50000	6.95
18 2-Chlorophenol	128	3.548	3.542	(0.955)	2023681	7.50000	6.69
24 2-Methylphenol	108	3.890	3.885	(1.048)	1851239	7.50000	6.71
29 3&4-Methylphenol	107	4.018	4.013	(1.082)	2162004	7.50000	6.69
25 bis(2-Chloroisopropyl)ether	45	3.922	3.917	(1.056)	3948264	7.50000	6.73
27 Acetophenone	105	4.040	4.034	(0.837)	2937560	7.50000	6.65
28 N-Nitroso-di-n-propylamine	70	4.034	4.029	(1.086)	1569523	7.50000	6.78
31 Hexachloroethane	117	4.147	4.147	(1.117)	917842	7.50000	6.64

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	4.189	4.190	(0.868)	2307319	7.50000	6.78
36 Isophorone	82	4.398	4.393	(0.911)	4180890	7.50000	6.77
37 2-Nitrophenol	139	4.473	4.473	(0.927)	1000990	7.50000	7.07
40 2,4-Dimethylphenol	122	4.494	4.494	(0.931)	1835710	7.50000	6.76
41 Bis(2-chloroethoxy)methane	93	4.585	4.580	(0.950)	2574601	7.50000	6.59
43 2,4-Dichlorophenol	162	4.687	4.687	(0.971)	1430094	7.50000	6.65
46 Naphthalene	128	4.847	4.842	(1.004)	5846412	7.50000	6.72
48 4-Chloroaniline	127	4.885	4.885	(1.012)	2427665	7.50000	6.54
51 Hexachlorobutadiene	225	4.965	4.965	(1.029)	686460	7.50000	6.63
57 Caprolactam	113	5.200	5.179	(1.078)	617688	7.50000	7.10
58 4-Chloro-3-Methylphenol	107	5.339	5.334	(1.106)	1748643	7.50000	6.76
61 2-Methylnaphthalene	141	5.500	5.495	(1.140)	3106182	7.50000	6.65
63 Hexachlorocyclopentadiene	237	5.660	5.655	(0.869)	798975	7.50000	7.15
66 2,4,6-Trichlorophenol	196	5.767	5.767	(0.886)	894109	7.50000	6.68
68 2,4,5-Trichlorophenol	196	5.799	5.799	(0.891)	934188	7.50000	6.84
73 1,1'-Biphenyl	154	5.949	5.944	(0.914)	4148986	7.50000	6.69
74 2-Chloronaphthalene	162	5.965	5.965	(0.916)	3229216	7.50000	6.08
77 2-Nitroaniline	65	6.056	6.056	(0.930)	1283187	7.50000	7.07
80 Dimethylphthalate	163	6.238	6.238	(0.958)	3614284	7.50000	6.79
82 2,6-Dinitrotoluene	165	6.291	6.292	(0.966)	812201	7.50000	7.07
83 Acenaphthylene	152	6.372	6.372	(0.979)	5282003	7.50000	6.74
85 3-Nitroaniline	138	6.457	6.452	(0.992)	1036645	7.50000	7.06
88 Acenaphthene	154	6.543	6.538	(1.005)	3300366	7.50000	6.85
89 2,4-Dinitrophenol	184	6.559	6.554	(1.007)	421669	7.50000	6.89
90 4-Nitrophenol	109	6.618	6.612	(1.016)	610445	7.50000	7.27
92 Dibenzofuran	168	6.709	6.709	(1.030)	4402035	7.50000	6.74
93 2,4-Dinitrotoluene	165	6.687	6.687	(1.027)	1067686	7.50000	7.27
97 Diethylphthalate	149	6.928	6.928	(1.064)	3784849	7.50000	6.77
98 Fluorene	166	7.046	7.046	(1.082)	3589109	7.50000	6.61
99 4-Chlorophenyl phenyl ether	204	7.046	7.040	(1.082)	1355931	7.50000	6.54
100 4-Nitroaniline	138	7.056	7.051	(1.084)	1048276	7.50000	7.12
101 4,6-Dinitro-2-methylphenol	198	7.088	7.083	(0.890)	539000	7.50000	7.02
102 N-Nitrosodiphenylamine	169	7.158	7.153	(0.899)	3036298	7.50000	6.79
112 4-Bromophenyl-phenylether	248	7.522	7.522	(0.944)	768291	7.50000	6.68
113 Hexachlorobenzene	284	7.597	7.597	(0.954)	787822	7.50000	6.73
118 Atrazine	200	7.682	7.677	(0.964)	846173	7.50000	6.89
121 Pentachlorophenol	266	7.784	7.778	(0.977)	493959	7.50000	7.00
128 Phenanthrene	178	7.992	7.987	(1.003)	4884229	7.50000	6.64
130 Anthracene	178	8.040	8.035	(1.009)	4966313	7.50000	6.85
134 Carbazole	167	8.196	8.190	(1.029)	4705057	7.50000	6.55
140 Di-n-butylphthalate	149	8.543	8.538	(1.073)	6559688	7.50000	7.18
149 Fluoranthene	202	9.169	9.169	(1.151)	4682440	7.50000	6.95
155 Pyrene	202	9.404	9.399	(0.866)	5073912	7.50000	6.73
173 Butylbenzylphthalate	149	10.132	10.127	(0.933)	2824914	7.50000	6.95
180 3,3'-Dichlorobenzidine	252	10.806	10.806	(0.996)	1416497	7.50000	6.85
181 Benzo(a)Anthracene	228	10.838	10.833	(0.999)	4308598	7.50000	6.73
183 Chrysene	228	10.886	10.886	(1.003)	4031681	7.50000	6.47
184 bis(2-ethylhexyl)phthalate	149	10.891	10.891	(1.003)	4109143	7.50000	7.03
190 Di-n-octylphthalate	149	11.838	11.833	(0.914)	6888171	7.50000	7.36
192 Benzo(b)fluoranthene	252	12.389	12.384	(0.956)	4366990	7.50000	7.25
195 Benzo(k)fluoranthene	252	12.426	12.421	(0.959)	3955859	7.50000	6.39
197 Benzo(a)pyrene	252	12.876	12.865	(0.994)	3907441	7.50000	6.96
209 Indeno(1,2,3-cd)pyrene	276	14.550	14.539	(1.123)	3779386	7.50000	6.93(M)
210 Dibenzo(a,h)anthracene	278	14.582	14.571	(1.125)	3480894	7.50000	6.62

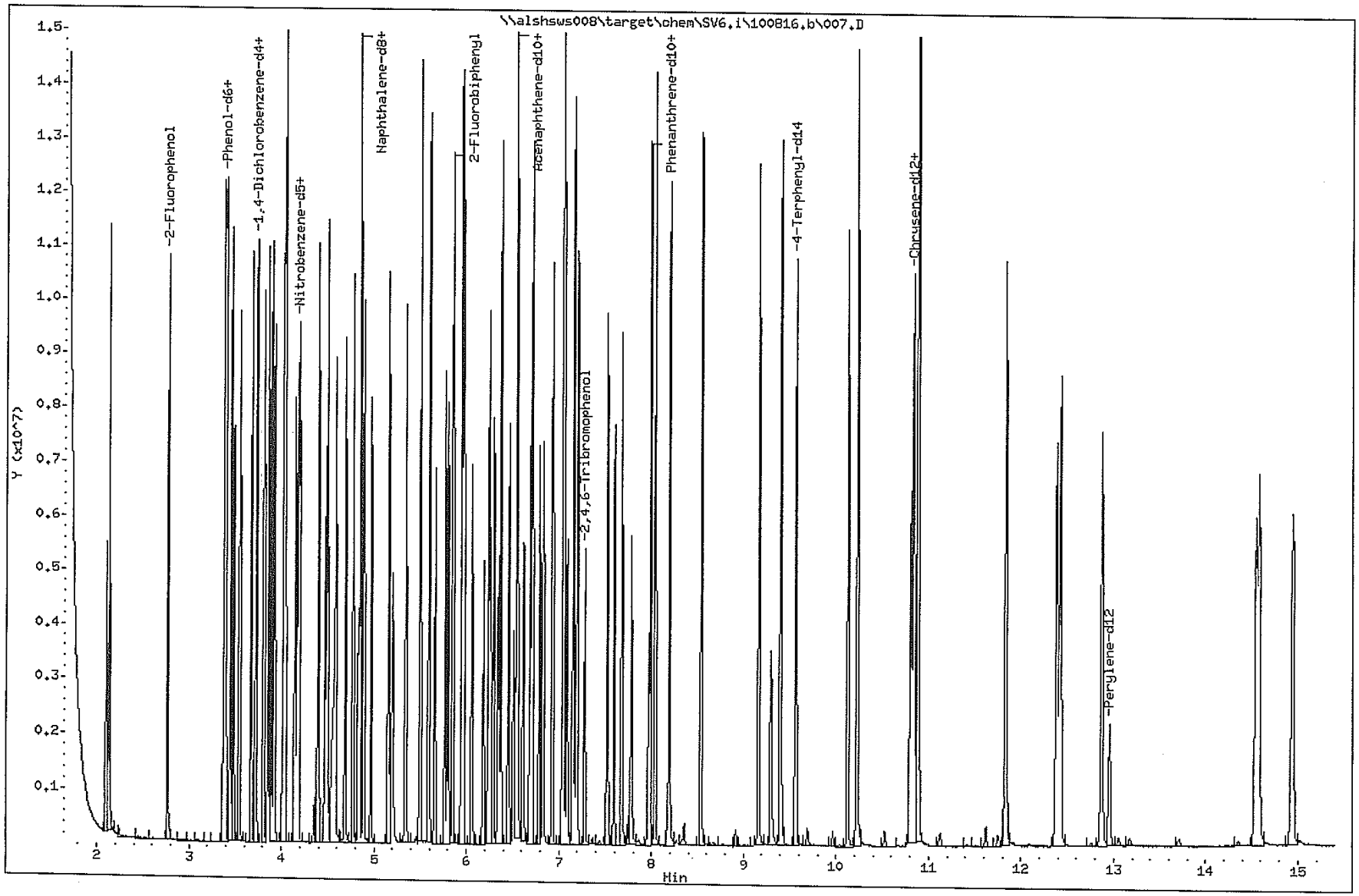
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	14.946	14.935	(1.154)	3743810	7.50000	6.82

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100816.b\007.D
Date : 16-AUG-2010 15:29
Client ID: SLSTD-7.5
Sample Info: SLSTD-7.5;SLSTD-7.5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100816.b\008.D
Lab Smp Id: SLSTD-10.0 Client Smp ID: SLSTD-10.0
Inj Date : 16-AUG-2010 15:48 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SLSTD-10.0;SLSTD-10.0
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100816.b\R8270DLL.m
Meth Date : 20-Sep-2010 15:38 SV6.i Quant Type: ISTD
Cal Date : 18-MAR-2010 20:46 Cal File: 21.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.713	3.714	(1.000)	431537	2.00000	
$ 9 2-Fluorophenol	112	2.772	2.767	(0.747)	3600604	10.0000	10.82(A)
$ 13 Phenol-d6	99	3.387	3.382	(0.912)	4680400	10.0000	10.69(A)
* 45 Naphthalene-d8	136	4.826	4.826	(1.000)	1775123	2.00000	
$ 33 Nitrobenzene-d5	82	4.173	4.168	(0.865)	4194553	10.0000	10.85(A)
* 86 Acenaphthene-d10	164	6.511	6.506	(1.000)	869686	2.00000	
$ 69 2-Fluorobiphenyl	172	5.853	5.848	(0.899)	6328016	10.0000	10.54(A)
* 126 Phenanthrene-d10	188	7.966	7.966	(1.000)	1365166	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.281	7.281	(1.118)	712070	10.0000	11.20(A)
* 182 Chrysene-d12	240	10.854	10.849	(1.000)	1231053	2.00000	
$ 158 4-Terphenyl-d14	244	9.570	9.565	(0.882)	5194550	10.0000	10.52(A)
* 198 Perylene-d12	264	12.956	12.956	(1.000)	1116087	2.00000	
12 Benzaldehyde	77	3.377	3.371	(0.909)	2669472	10.0000	9.71
14 Phenol	94	3.398	3.393	(0.915)	4628695	10.0000	10.65(A)
17 Bis(2-chloroethyl)ether	93	3.483	3.478	(0.938)	3749526	10.0000	10.21(A)
18 2-Chlorophenol	128	3.548	3.542	(0.955)	3531444	10.0000	10.62(A)
24 2-Methylphenol	108	3.890	3.885	(1.048)	3272649	10.0000	10.78(A)
29 3&4-Methylphenol	107	4.024	4.013	(1.084)	3789751	10.0000	10.67(A)
25 bis(2-Chloroisopropyl)ether	45	3.922	3.917	(1.056)	6919062	10.0000	10.73(A)
27 Acetophenone	105	4.040	4.034	(0.837)	5086772	10.0000	10.46(A)
28 N-Nitroso-di-n-propylamine	70	4.040	4.029	(1.088)	2759544	10.0000	10.85(A)
31 Hexachloroethane	117	4.147	4.147	(1.117)	1623955	10.0000	10.68(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	4.190	4.190	(0.868)	4036773	10.0000	10.78(A)
36 Isophorone	82	4.398	4.393	(0.911)	7377116	10.0000	10.85(A)
37 2-Nitrophenol	139	4.473	4.473	(0.927)	1781089	10.0000	11.43(A)
40 2,4-Dimethylphenol	122	4.500	4.494	(0.932)	3215163	10.0000	10.75(A)
41 Bis(2-chloroethoxy)methane	93	4.585	4.580	(0.950)	4524022	10.0000	10.52(A)
43 2,4-Dichlorophenol	162	4.687	4.687	(0.971)	2542740	10.0000	10.73(A)
46 Naphthalene	128	4.847	4.842	(1.004)	9259875	10.0000	9.67
48 4-Chloroaniline	127	4.890	4.885	(1.013)	4231034	10.0000	10.36(A)
51 Hexachlorobutadiene	225	4.965	4.965	(1.029)	1202255	10.0000	10.55(A)
57 Caprolactam	113	5.216	5.179	(1.081)	1092206	10.0000	11.40(A)
58 4-Chloro-3-Methylphenol	107	5.345	5.334	(1.107)	3059430	10.0000	10.75(A)
61 2-Methylnaphthalene	141	5.500	5.495	(1.140)	5468977	10.0000	10.63(A)
63 Hexachlorocyclopentadiene	237	5.660	5.655	(0.869)	1438159	10.0000	11.44(A)
66 2,4,6-Trichlorophenol	196	5.767	5.767	(0.886)	1583969	10.0000	10.52(A)
68 2,4,5-Trichlorophenol	196	5.805	5.799	(0.892)	1662899	10.0000	10.83(A)
73 1,1'-Biphenyl	154	5.949	5.944	(0.914)	7233597	10.0000	10.37(A)
74 2-Chloronaphthalene	162	5.971	5.965	(0.917)	5439273	10.0000	9.81
77 2-Nitroaniline	65	6.062	6.056	(0.931)	2299190	10.0000	11.27(A)
80 Dimethylphthalate	163	6.243	6.238	(0.959)	6223093	10.0000	10.40(A)
82 2,6-Dinitrotoluene	165	6.297	6.292	(0.967)	1422379	10.0000	11.01(A)
83 Acenaphthylene	152	6.377	6.372	(0.979)	9196647	10.0000	10.44(A)
85 3-Nitroaniline	138	6.463	6.452	(0.993)	1797891	10.0000	10.89(A)
88 Acenaphthene	154	6.543	6.538	(1.005)	5786734	10.0000	10.68(A)
89 2,4-Dinitrophenol	184	6.564	6.554	(1.008)	812725	10.0000	10.09(AQ)
90 4-Nitrophenol	109	6.618	6.612	(1.016)	1106398	10.0000	11.72(A)
92 Dibenzofuran	168	6.714	6.709	(1.031)	7665808	10.0000	10.44(A)
93 2,4-Dinitrotoluene	165	6.693	6.687	(1.028)	1904757	10.0000	11.53(A)
97 Diethylphthalate	149	6.933	6.928	(1.065)	6620320	10.0000	10.53(A)
98 Fluorene	166	7.046	7.046	(1.082)	6281232	10.0000	10.29(A)
99 4-Chlorophenyl phenyl ether	204	7.046	7.040	(1.082)	2372589	10.0000	10.18(A)
100 4-Nitroaniline	138	7.062	7.051	(1.085)	1859882	10.0000	11.23(A)
101 4,6-Dinitro-2-methylphenol	198	7.094	7.083	(0.891)	988322	10.0000	10.08(A)
102 N-Nitrosodiphenylamine	169	7.158	7.153	(0.899)	5280222	10.0000	10.65(A)
112 4-Bromophenyl-phenylether	248	7.527	7.522	(0.945)	1353150	10.0000	10.61(A)
113 Hexachlorobenzene	284	7.597	7.597	(0.954)	1388707	10.0000	10.70(A)
118 Atrazine	200	7.682	7.677	(0.964)	1491684	10.0000	10.96(A)
121 Pentachlorophenol	266	7.784	7.778	(0.977)	894277	10.0000	10.09(A)
128 Phenanthrene	178	7.992	7.987	(1.003)	8502422	10.0000	10.42(A)
130 Anthracene	178	8.041	8.035	(1.009)	8678633	10.0000	10.79(A)
134 Carbazole	167	8.196	8.190	(1.029)	8302120	10.0000	10.43(A)
140 Di-n-butylphthalate	149	8.538	8.538	(1.072)	9799538	10.0000	9.67
149 Fluoranthene	202	9.169	9.169	(1.151)	8241913	10.0000	11.04(A)
155 Pyrene	202	9.404	9.399	(0.866)	8874858	10.0000	10.51(A)
173 Butylbenzylphthalate	149	10.132	10.127	(0.933)	5069646	10.0000	11.14(A)
180 3,3'-Dichlorobenzidine	252	10.811	10.806	(0.996)	2544822	10.0000	10.99(A)
181 Benzo(a)Anthracene	228	10.843	10.833	(0.999)	7688696	10.0000	10.73(A)
183 Chrysene	228	10.891	10.886	(1.003)	7006866	10.0000	10.04(A)
184 bis(2-ethylhexyl)phthalate	149	10.891	10.891	(1.003)	7211271	10.0000	11.02(A)
190 Di-n-octylphthalate	149	11.838	11.833	(0.914)	12291412	10.0000	11.68(A)
192 Benzo(b)fluoranthene	252	12.394	12.384	(0.957)	7570848	10.0000	11.18(A)
195 Benzo(k)fluoranthene	252	12.432	12.421	(0.960)	7209624	10.0000	10.37(A)
197 Benzo(a)pyrene	252	12.881	12.865	(0.994)	7025650	10.0000	11.13(A)
209 Indeno(1,2,3-cd)pyrene	276	14.555	14.539	(1.123)	7127766	10.0000	11.63(AM)
210 Dibenzo(a,h)anthracene	278	14.587	14.571	(1.126)	6516797	10.0000	11.03(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	14.951	14.935	(1.154)	6805500	10.0000	11.03(A)

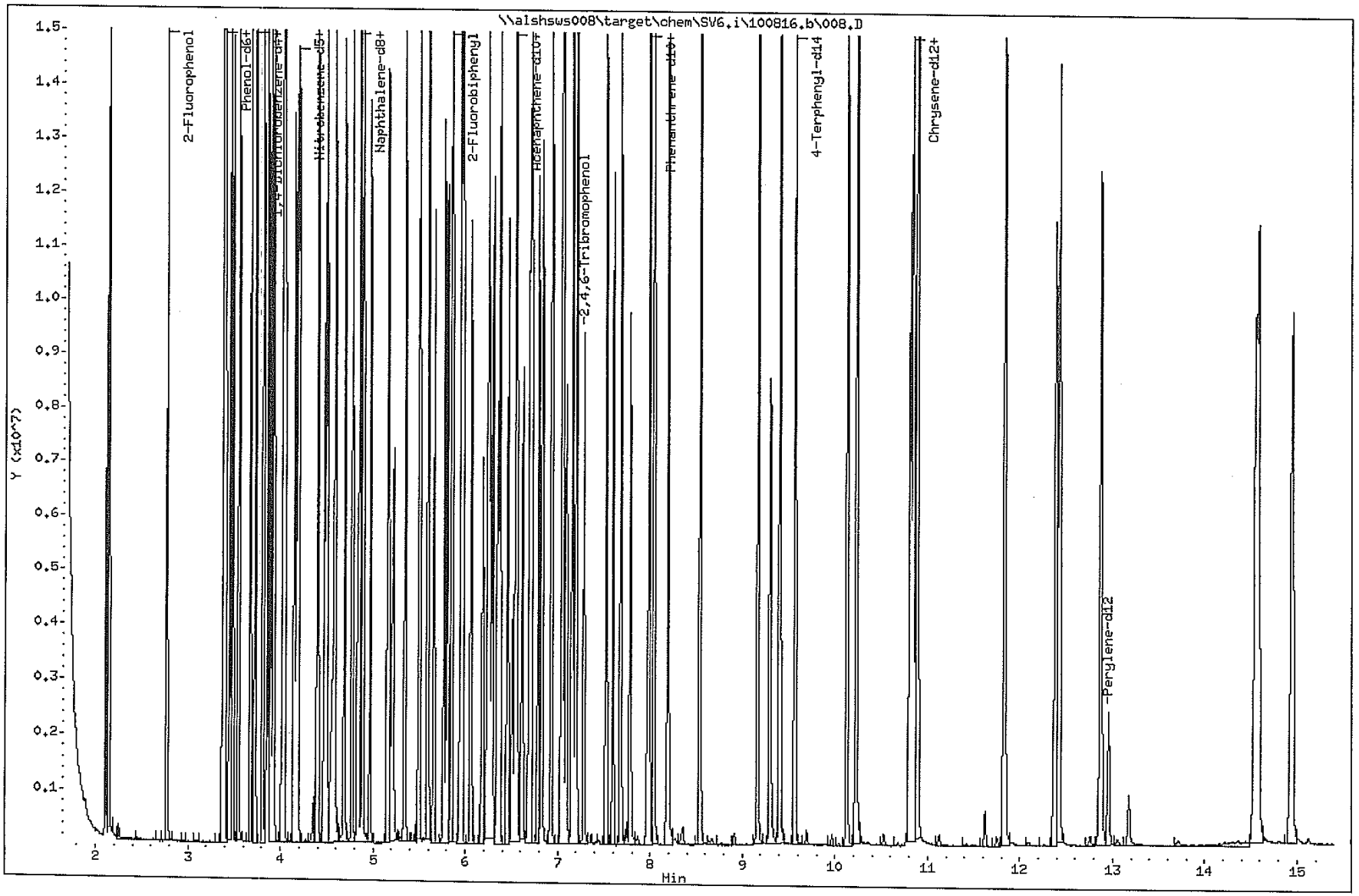
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100816.b\008.D
Date : 16-AUG-2010 15:48
Client ID: SLSTD-10.0
Sample Info: SLSTD-10.0;SLSTD-10.0
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i

Operator: LG
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100816.b\009.D
Lab Smp Id: SLSTD-2.5 Client Smp ID: SLSTD-2.5
Inj Date : 16-AUG-2010 16:08 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SLSTD-2.5;SLSTD-2.5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100816.b\R8270DLL.m
Meth Date : 20-Sep-2010 15:38 SV6.i Quant Type: ISTD
Cal Date : 18-MAR-2010 20:46 Cal File: 21.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.714	3.714	(1.000)	452055	2.00000	(Q)
$ 9 2-Fluorophenol	112	2.767	2.767	(0.745)	804600	2.50000	2.30
$ 13 Phenol-d6	99	3.382	3.382	(0.911)	1046584	2.50000	2.28
* 45 Naphthalene-d8	136	4.826	4.826	(1.000)	1809850	2.00000	
$ 33 Nitrobenzene-d5	82	4.168	4.168	(0.864)	930520	2.50000	2.36
* 86 Acenaphthene-d10	164	6.506	6.506	(1.000)	874081	2.00000	
$ 69 2-Fluorobiphenyl	172	5.848	5.848	(0.899)	1441119	2.50000	2.38
* 126 Phenanthrene-d10	188	7.966	7.966	(1.000)	1383764	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.281	7.281	(1.119)	154435	2.50000	2.41
* 182 Chrysene-d12	240	10.849	10.849	(1.000)	1221399	2.00000	
$ 158 4-Terphenyl-d14	244	9.565	9.565	(0.882)	1156821	2.50000	2.36
* 198 Perylene-d12	264	12.956	12.956	(1.000)	1109174	2.00000	
12 Benzaldehyde	77	3.371	3.371	(0.908)	681994	2.50000	2.36
14 Phenol	94	3.393	3.393	(0.914)	1046814	2.50000	2.29
17 Bis(2-chloroethyl)ether	93	3.478	3.478	(0.937)	881034	2.50000	2.29
18 2-Chlorophenol	128	3.542	3.542	(0.954)	822985	2.50000	2.36
24 2-Methylphenol	108	3.885	3.885	(1.046)	740638	2.50000	2.33
29 3&4-Methylphenol	107	4.013	4.013	(1.081)	868217	2.50000	2.33
25 bis(2-Chloroisopropyl)ether	45	3.917	3.917	(1.055)	1566622	2.50000	2.31
27 Acetophenone	105	4.034	4.034	(0.836)	1147843	2.50000	2.31
28 N-Nitroso-di-n-propylamine	70	4.029	4.029	(1.085)	628929	2.50000	2.36
31 Hexachloroethane	117	4.147	4.147	(1.117)	373141	2.50000	2.34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	4.190	4.190	(0.868)	914630	2.50000	2.39
36 Isophorone	82	4.393	4.393	(0.910)	1657037	2.50000	2.39
37 2-Nitrophenol	139	4.473	4.473	(0.927)	383367	2.50000	2.41
40 2,4-Dimethylphenol	122	4.494	4.494	(0.931)	721417	2.50000	2.36(M)
41 Bis(2-chloroethoxy)methane	93	4.580	4.580	(0.949)	1024640	2.50000	2.33
43 2,4-Dichlorophenol	162	4.687	4.687	(0.971)	562715	2.50000	2.33
46 Naphthalene	128	4.842	4.842	(1.003)	2307977	2.50000	2.36
48 4-Chloroaniline	127	4.885	4.885	(1.012)	983202	2.50000	2.36
51 Hexachlorobutadiene	225	4.965	4.965	(1.029)	276437	2.50000	2.37
57 Caprolactam	113	5.179	5.179	(1.073)	243110	2.50000	2.48
58 4-Chloro-3-Methylphenol	107	5.334	5.334	(1.105)	683786	2.50000	2.35
61 2-Methylnaphthalene	141	5.495	5.495	(1.139)	1236213	2.50000	2.35
63 Hexachlorocyclopentadiene	237	5.655	5.655	(0.869)	304848	2.50000	2.41
66 2,4,6-Trichlorophenol	196	5.767	5.767	(0.887)	362708	2.50000	2.39
68 2,4,5-Trichlorophenol	196	5.799	5.799	(0.891)	360963	2.50000	2.34
73 1,1'-Biphenyl	154	5.944	5.944	(0.914)	1617984	2.50000	2.30
74 2-Chloronaphthalene	162	5.965	5.965	(0.917)	1396355	2.50000	2.57
77 2-Nitroaniline	65	6.056	6.056	(0.931)	497532	2.50000	2.42
80 Dimethylphthalate	163	6.238	6.238	(0.959)	1445589	2.50000	2.40
82 2,6-Dinitrotoluene	165	6.292	6.292	(0.967)	323612	2.50000	2.49
83 Acenaphthylene	152	6.372	6.372	(0.979)	2104207	2.50000	2.37
85 3-Nitroaniline	138	6.452	6.452	(0.992)	407288	2.50000	2.45
88 Acenaphthene	154	6.538	6.538	(1.005)	1292945	2.50000	2.37
89 2,4-Dinitrophenol	184	6.554	6.554	(1.007)	154765	2.50000	2.59(Q)
90 4-Nitrophenol	109	6.612	6.612	(1.016)	221792	2.50000	2.33
92 Dibenzofuran	168	6.709	6.709	(1.031)	1767276	2.50000	2.39
93 2,4-Dinitrotoluene	165	6.687	6.687	(1.028)	415159	2.50000	2.50
97 Diethylphthalate	149	6.928	6.928	(1.065)	1509879	2.50000	2.39
98 Fluorene	166	7.046	7.046	(1.083)	1448153	2.50000	2.36
99 4-Chlorophenyl phenyl ether	204	7.040	7.040	(1.082)	556914	2.50000	2.37
100 4-Nitroaniline	138	7.051	7.051	(1.084)	416527	2.50000	2.50
101 4,6-Dinitro-2-methylphenol	198	7.083	7.083	(0.889)	189043	2.50000	2.52
102 N-Nitrosodiphenylamine	169	7.153	7.153	(0.898)	1209260	2.50000	2.40
112 4-Bromophenyl-phenylether	248	7.522	7.522	(0.944)	309337	2.50000	2.39
113 Hexachlorobenzene	284	7.597	7.597	(0.954)	311139	2.50000	2.36
118 Atrazine	200	7.677	7.677	(0.964)	329395	2.50000	2.38
121 Pentachlorophenol	266	7.778	7.778	(0.977)	182310	2.50000	2.59
128 Phenanthrene	178	7.987	7.987	(1.003)	1953504	2.50000	2.36
130 Anthracene	178	8.035	8.035	(1.009)	1980764	2.50000	2.43
134 Carbazole	167	8.190	8.190	(1.028)	1969459	2.50000	2.44
140 Di-n-butylphthalate	149	8.538	8.538	(1.072)	2572780	2.50000	2.50
149 Fluoranthene	202	9.169	9.169	(1.151)	1837483	2.50000	2.42
155 Pyrene	202	9.399	9.399	(0.866)	2013000	2.50000	2.40
173 Butylbenzylphthalate	149	10.127	10.127	(0.933)	1078060	2.50000	2.38
180 3,3'-Dichlorobenzidine	252	10.806	10.806	(0.996)	558509	2.50000	2.43
181 Benzo(a)Anthracene	228	10.833	10.833	(0.999)	1666134	2.50000	2.34
183 Chrysene	228	10.886	10.886	(1.003)	1649211	2.50000	2.38
184 bis(2-ethylhexyl)phthalate	149	10.891	10.891	(1.004)	1576426	2.50000	2.42
190 Di-n-octylphthalate	149	11.833	11.833	(0.913)	2527329	2.50000	2.41
192 Benzo(b)fluoranthene	252	12.384	12.384	(0.956)	1568939	2.50000	2.33
195 Benzo(k)fluoranthene	252	12.421	12.421	(0.959)	1678090	2.50000	2.43
197 Benzo(a)pyrene	252	12.865	12.865	(0.993)	1495010	2.50000	2.38
209 Indeno(1,2,3-cd)pyrene	276	14.539	14.539	(1.122)	1444012	2.50000	2.37(M)
210 Dibenzo(a,h)anthracene	278	14.571	14.571	(1.125)	1407710	2.50000	2.39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	14.935	14.935	(1.153)	1456865	2.50000	2.37

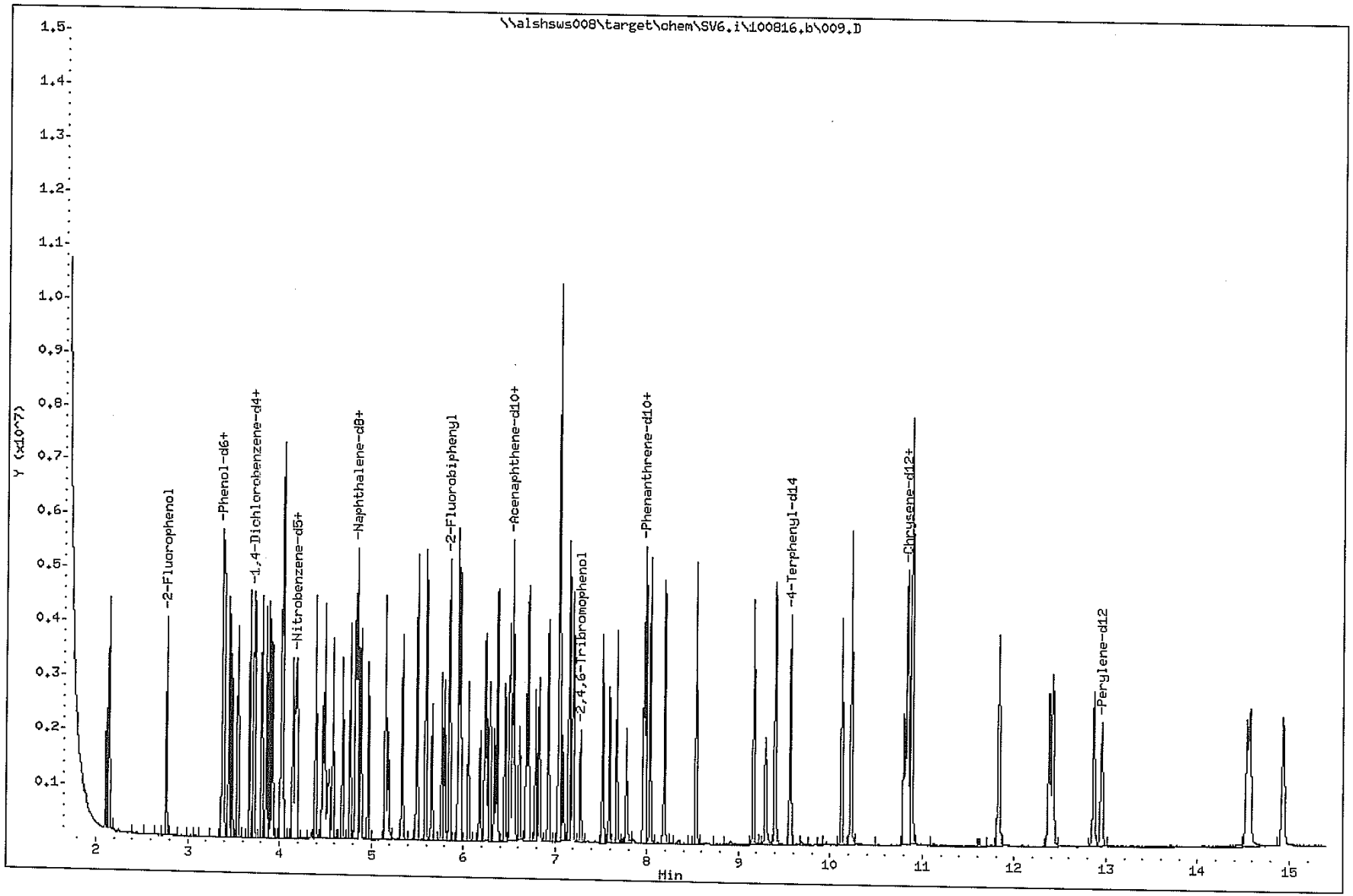
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100816.b\009.D
Date : 16-AUG-2010 16:08
Client ID: SLSTD-2.5
Sample Info: SLSTD-2.5;SLSTD-2.5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i

Operator: LG
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100816.b\013.D
Lab Smp Id: LOT2ICV-2.5 Client Smp ID: LOT2ICV-2.5
Inj Date : 16-AUG-2010 17:31 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : LOT2ICV-2.5;LOT2ICV-2.5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100816.b\R8270DLL.m
Meth Date : 20-Sep-2010 15:38 SV6.i Quant Type: ISTD
Cal Date : 18-MAR-2010 19:03 Cal File: 16.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.714	3.714	(1.000)	438864	2.00000	
$ 9 2-Fluorophenol	112	2.767	2.767	(0.745)	758492	2.24163	2.24
$ 13 Phenol-d6	99	3.382	3.382	(0.911)	1031725	2.31926	2.31
* 45 Naphthalene-d8	136	4.826	4.826	(1.000)	1771420	2.00000	
$ 33 Nitrobenzene-d5	82	4.168	4.168	(0.864)	1034593	2.68204	2.68
* 86 Acenaphthene-d10	164	6.506	6.506	(1.000)	860795	2.00000	
$ 69 2-Fluorobiphenyl	172	5.848	5.848	(0.899)	1428134	2.40332	2.40
* 126 Phenanthrene-d10	188	7.966	7.966	(1.000)	1355269	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.276	7.281	(1.118)	148283	2.35704	2.35
* 182 Chrysene-d12	240	10.849	10.849	(1.000)	1213106	2.00000	
$ 158 4-Terphenyl-d14	244	9.565	9.565	(0.882)	1170456	2.40580	2.40
* 198 Perylene-d12	264	12.951	12.956	(1.000)	1118267	2.00000	
12 Benzaldehyde	77	3.371	3.371	(0.908)	677564	2.42393	2.42
14 Phenol	94	3.393	3.393	(0.914)	1133952	2.56591	2.56
17 Bis(2-chloroethyl)ether	93	3.478	3.478	(0.937)	945683	2.53240	2.53
18 2-Chlorophenol	128	3.542	3.542	(0.954)	871045	2.57616	2.57
24 2-Methylphenol	108	3.885	3.885	(1.046)	790380	2.56151	2.56
29 3&4-Methylphenol	107	4.018	4.013	(1.082)	917435	2.54072	2.54
25 bis(2-Chloroisopropyl)ether	45	3.917	3.917	(1.055)	1690702	2.57880	2.57
27 Acetophenone	105	4.035	4.034	(0.836)	1148636	2.36827	2.36
28 N-Nitroso-di-n-propylamine	70	4.029	4.029	(1.085)	674194	2.60661	2.60
31 Hexachloroethane	117	4.147	4.147	(1.117)	396627	2.56541	2.56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
35 Nitrobenzene	77	4.190	4.190	(0.868)	1017742	2.72541	2.72
36 Isophorone	82	4.393	4.393	(0.910)	1840228	2.71224	2.71
37 2-Nitrophenol	139	4.473	4.473	(0.927)	425411	2.73745	2.73
40 2,4-Dimethylphenol	122	4.495	4.494	(0.931)	717091	2.40411	2.40
41 Bis(2-chloroethoxy)methane	93	4.580	4.580	(0.949)	1133100	2.64208	2.64
43 2,4-Dichlorophenol	162	4.687	4.687	(0.971)	604526	2.55839	2.55
46 Naphthalene	128	4.842	4.842	(1.003)	2571311	2.69098	2.69
48 4-Chloroaniline	127	4.885	4.885	(1.012)	1050310	2.57798	2.57
51 Hexachlorobutadiene	225	4.965	4.965	(1.029)	306621	2.69628	2.69
57 Caprolactam	113	5.184	5.179	(1.074)	228732	2.39312	2.39
58 4-Chloro-3-Methylphenol	107	5.334	5.334	(1.105)	747905	2.63402	2.63
61 2-Methylnaphthalene	141	5.495	5.495	(1.139)	1279426	2.49291	2.49
63 Hexachlorocyclopentadiene	237	5.661	5.655	(0.870)	319533	2.57003	2.57
66 2,4,6-Trichlorophenol	196	5.767	5.767	(0.887)	376141	2.52437	2.52
68 2,4,5-Trichlorophenol	196	5.794	5.799	(0.891)	399234	2.62893	2.62
73 1,1'-Biphenyl	154	5.944	5.944	(0.914)	1639404	2.37559	2.37
74 2-Chloronaphthalene	162	5.965	5.965	(0.917)	1503744	2.69752	2.69
77 2-Nitroaniline	65	6.056	6.056	(0.931)	544481	2.69753	2.69
80 Dimethylphthalate	163	6.238	6.238	(0.959)	1548580	2.61679	2.61
82 2,6-Dinitrotoluene	165	6.292	6.292	(0.967)	350851	2.74595	2.74
83 Acenaphthylene	152	6.367	6.372	(0.979)	2249760	2.58140	2.58
85 3-Nitroaniline	138	6.452	6.452	(0.992)	422200	2.58581	2.58
88 Acenaphthene	154	6.538	6.538	(1.005)	1425547	2.66060	2.66
89 2,4-Dinitrophenol	184	6.554	6.554	(1.007)	141162	2.42338	2.42(Q)
90 4-Nitrophenol	109	6.613	6.612	(1.016)	252224	2.70116	2.70
92 Dibenzofuran	168	6.709	6.709	(1.031)	1900854	2.61747	2.61
93 2,4-Dinitrotoluene	165	6.682	6.687	(1.027)	463377	2.83539	2.83
97 Diethylphthalate	149	6.928	6.928	(1.065)	1647042	2.64770	2.64
98 Fluorene	166	7.040	7.046	(1.082)	1589859	2.63349	2.63
99 4-Chlorophenyl phenyl ether	204	7.040	7.040	(1.082)	604035	2.61970	2.61
100 4-Nitroaniline	138	7.051	7.051	(1.084)	449171	2.74108	2.74
101 4,6-Dinitro-2-methylphenol	198	7.083	7.083	(0.889)	203609	2.75253	2.75
102 N-Nitrosodiphenylamine	169	7.153	7.153	(0.898)	1312255	2.66698	2.66
112 4-Bromophenyl-phenylether	248	7.522	7.522	(0.944)	338880	2.67850	2.67
113 Hexachlorobenzene	284	7.591	7.597	(0.953)	347100	2.69617	2.69
118 Atrazine	200	7.677	7.677	(0.964)	328698	2.43284	2.43
121 Pentachlorophenol	266	7.779	7.778	(0.977)	182542	2.64473	2.64
128 Phenanthrene	178	7.987	7.987	(1.003)	2147831	2.65248	2.65
130 Anthracene	178	8.035	8.035	(1.009)	2167097	2.71522	2.71
134 Carbazole	167	8.190	8.190	(1.028)	2146546	2.71777	2.71
140 Di-n-butylphthalate	149	8.538	8.538	(1.072)	2784519	2.77063	2.77
149 Fluoranthene	202	9.164	9.169	(1.150)	2034533	2.74558	2.74
155 Pyrene	202	9.399	9.399	(0.866)	2179442	2.62028	2.62
173 Butylbenzylphthalate	149	10.127	10.127	(0.933)	1157152	2.58162	2.58
180 3,3'-Dichlorobenzidine	252	10.801	10.806	(0.996)	547918	2.40327	2.40
181 Benzo(a)Anthracene	228	10.833	10.833	(0.999)	1831079	2.59318	2.59
183 Chrysene	228	10.881	10.886	(1.003)	1776654	2.58452	2.58
184 bis(2-ethylhexyl)phthalate	149	10.886	10.891	(1.003)	1711648	2.65592	2.65
190 Di-n-octylphthalate	149	11.833	11.833	(0.914)	2700036	2.56254	2.56
192 Benzo(b)fluoranthene	252	12.378	12.384	(0.956)	1656610	2.44288	2.44
195 Benzo(k)fluoranthene	252	12.421	12.421	(0.959)	1819446	2.61344	2.61
197 Benzo(a)pyrene	252	12.865	12.865	(0.993)	1652204	2.61406	2.61
209 Indeno(1,2,3-cd)pyrene	276	14.539	14.539	(1.123)	1581998	2.57724	2.57(M)
210 Dibenzo(a,h)anthracene	278	14.571	14.571	(1.125)	1549399	2.61899	2.61

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
212 Benzo(g,h,i)perylene	276	14.935	14.935	(1.153)	1595824	2.58358	2.58

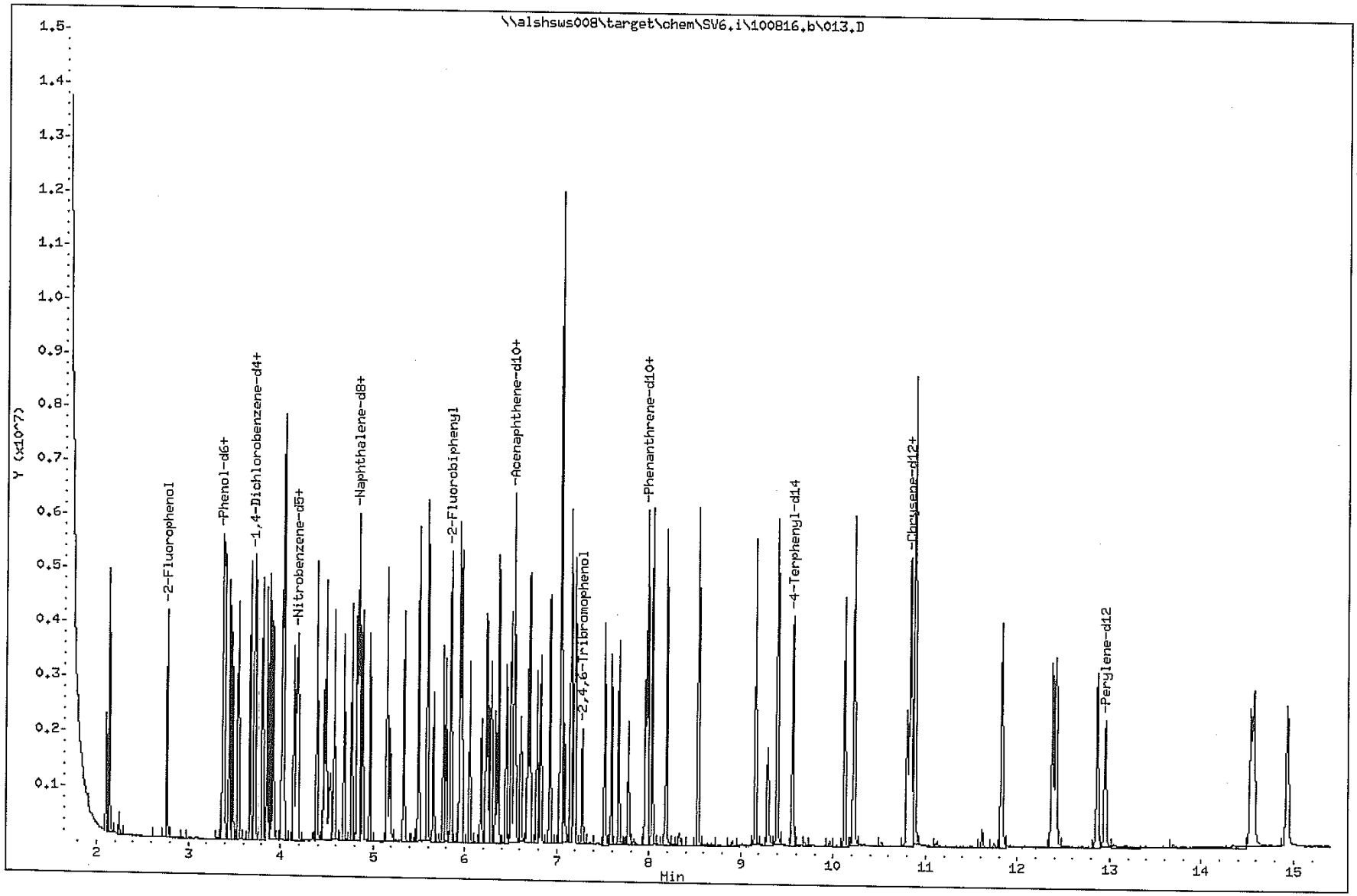
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100816.b\013.D
Date : 16-AUG-2010 17:31
Client ID: LOT2ICV-2.5
Sample Info: LOT2ICV-2.5;LOT2ICV-2.5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i

Operator: LG
Column diameter: 0.28



ALS Laboratory Group **GC/MS 6 Instrument Run Log** **Logbook # 23319**

Sequence # 1009178A		Method: 8270D / E625 / CLP / Others	SOP #: MSSV-001 / MSSV-003 LL
RPM: VJH	IS ID: 22717-31-08	CAL STD ID: 22717-31-a	DFTPP ID: 22717-30-07

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
1	DFTPP	50ng					9/8/10	12:14	✓	JH	
2	LCSD025	2.5ppm						12:24	✓		
3	1022537	SBLK21-1009178	water	1000mL	1mL	1		12:56	✓		
4		SLCS21-1009178						13:16	✓		
5		SLCSD1-1009178						13:35	✓		
6	1009126	16A						13:58	✓		
7	1009128	17A						14:18	✓		
8	1009125	16A	Soil	30.0g				14:38	✓		
9	1009127	16A						14:57	✓		
10	1009537	02D	water	1000mL				15:17	✓		
11		04D				1		15:37	✓		
12		05D						15:56	✓		
13		07D						16:16	✓		
14		08D						16:35	✓		
15		11D						16:55	✓		
16		13D						17:15	✓		
17		14D						17:34	✓		
18	1009543	02E						17:54	✓		
19		04E						18:14	✓		
20		05E						18:33	✓		
21		07E						18:53	✓		
22		08E						19:13	✓		
23		10E						19:32	✓		
24		11E						19:52	✓		
25		13E						20:11	✓		

IS1/1,4-dichlorobenzene-$_{d4}$: 2191089		IS2/naphthalene-$_{d8}$: 1967057		IS3/acenaphthene-$_{d10}$: 935029	
IS4/phenanthrene-$_{d10}$: 1498986		IS5/chrysene-$_{d12}$: 1291164		IS6/perylene-$_{d12}$: 1150930	
DFTPP resp: 330613732	DDD resp: 6	DDE resp: 8	PCP Resp: 368539519	PCP Tailing: 0.61	(< 2.0 %)
DDT resp: 462563556	% Breakdown: 6	(< 20 %)	Benz. Resp: 575002435	Benz. Tailing: 0.47	(< 2.0 %)

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ALS Laboratory Group **GC/MS 6 Instrument Run Log** **Logbook # 23319**

Sequence # 1009184		Method: ~~8270D~~ / E625 / CLP / Others	SOP #: MSSV-001 / ~~MSSV-003 LL~~
RPM: ✓ 84	IS ID: 22717-31-08	CAL STD ID: 22717-31-01	DFTPP ID : 22717-30-07

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
26 1	1009543	1LE	water	1000mL	1mL	4	9/18/10	20:31	✓	SD	
27 2	1009523	4SB	↓	↓	↓	↓	↓	20:51	✓	↓	
28 3	↓	4MB						21:10	✓		
29 4	↓	45B						21:30	✓		
5											
6											
7											
8											
9											
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22											
23											
24											
25											

IS1/1,4-dichlorobenzene-$_{d4}$:	IS2/~~naphthalene-$_{d8}$~~:	IS3/~~acenaphthene-$_{d10}$~~:
IS4/phenanthrene-$_{d10}$:	IS5/chrysene-$_{d12}$:	IS6/~~perylene-$_{d12}$~~:

DFTPP resp:	DDD resp:	DDE resp:	PCP Resp:	PCP Tailing : (< 2.0 %)
DDT resp:	% Breakdown: (< 20 %)		Benz. Resp:	Benz. Tailing: (< 2.0 %)

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FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV6 Calibration Date: 09/18/10 Time: 1224

Lab File ID: 002 Init. Calib. Date(s): 08/16/10 08/16/10

Init. Calib. Times: 1411 1608

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	SAMPLE AMOUNT	CAL2.5 AMOUNT	CURVE	%D	MAX %d
Phenol	2.42	2.50	AVRG	3.2	20.0
Bis(2-chloroethyl)ether	2.45	2.50	AVRG	2.0	20.0
2-Chlorophenol	2.41	2.50	AVRG	3.6	20.0
2-Methylphenol	2.44	2.50	AVRG	2.4	20.0
bis(2-Chloroisopropyl)ether	2.16	2.50	AVRG	13.6	20.0
3&4-Methylphenol	2.44	2.50	AVRG	2.4	20.0
N-Nitroso-di-n-propylamine	2.37	2.50	AVRG	5.2	20.0
Hexachloroethane	2.45	2.50	AVRG	2.0	20.0
Nitrobenzene	2.45	2.50	AVRG	2.0	20.0
Isophorone	2.42	2.50	AVRG	3.2	20.0
2-Nitrophenol	2.52	2.50	AVRG	0.8	20.0
2,4-Dimethylphenol	2.41	2.50	AVRG	3.6	20.0
Bis(2-chloroethoxy)methane	2.40	2.50	AVRG	4.0	20.0
2,4-Dichlorophenol	2.52	2.50	AVRG	0.8	20.0
Naphthalene	2.52	2.50	AVRG	0.8	20.0
4-Chloroaniline	2.44	2.50	AVRG	2.4	20.0
Hexachlorobutadiene	2.50	2.50	AVRG	0.0	20.0
4-Chloro-3-Methylphenol	2.45	2.50	AVRG	2.0	20.0
2-Methylnaphthalene	2.54	2.50	AVRG	1.6	20.0
Hexachlorocyclopentadiene	2.46	2.50	AVRG	1.6	20.0
2,4,6-Trichlorophenol	2.48	2.50	AVRG	0.8	20.0
2,4,5-Trichlorophenol	2.64	2.50	AVRG	5.6	20.0
2-Chloronaphthalene	2.17	2.50	AVRG	13.2	20.0
2-Nitroaniline	2.50	2.50	AVRG	0.0	20.0
Dimethylphthalate	2.56	2.50	AVRG	2.4	20.0
Acenaphthylene	2.54	2.50	AVRG	1.6	20.0
2,6-Dinitrotoluene	2.64	2.50	AVRG	5.6	20.0
3-Nitroaniline	2.54	2.50	AVRG	1.6	20.0
Acenaphthene	2.40	2.50	AVRG	4.0	20.0
2,4-Dinitrophenol	2.32	2.50	2ORDR	7.2	20.0
Dibenzofuran	2.48	2.50	AVRG	0.8	20.0
4-Nitrophenol	2.53	2.50	AVRG	1.2	20.0
2,4-Dinitrotoluene	2.72	2.50	AVRG	8.8	20.0
Diethylphthalate	2.54	2.50	AVRG	1.6	20.0
4-Chlorophenyl phenyl ether	2.46	2.50	AVRG	1.6	20.0
Fluorene	2.50	2.50	AVRG	0.0	20.0
4-Nitroaniline	2.60	2.50	AVRG	4.0	20.0

FORM VII SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV6 Calibration Date: 09/18/10 Time: 1224

Lab File ID: 002 Init. Calib. Date(s): 08/16/10 08/16/10

Init. Calib. Times: 1411 1608

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	SAMPLE AMOUNT	CAL2.5 AMOUNT	CURVE	%D	MAX %d
4,6-Dinitro-2-methylphenol	2.57	2.50	2ORDR	2.8	20.0
N-Nitrosodiphenylamine	2.50	2.50	AVRG	0.0	20.0
4-Bromophenyl-phenylether	2.38	2.50	AVRG	4.8	20.0
Hexachlorobenzene	2.40	2.50	AVRG	4.0	20.0
Pentachlorophenol	2.80	2.50	2ORDR	12.0	20.0
Phenanthrene	2.52	2.50	AVRG	0.8	20.0
Anthracene	2.59	2.50	AVRG	3.6	20.0
Carbazole	2.50	2.50	AVRG	0.0	20.0
Di-n-butylphthalate	2.68	2.50	AVRG	7.2	20.0
Fluoranthene	2.54	2.50	AVRG	1.6	20.0
Pyrene	2.59	2.50	AVRG	3.6	20.0
Butylbenzylphthalate	2.72	2.50	AVRG	8.8	20.0
Benzo(a)Anthracene	2.54	2.50	AVRG	1.6	20.0
3,3'-Dichlorobenzidine	2.40	2.50	AVRG	4.0	20.0
bis(2-ethylhexyl)phthalate	2.75	2.50	AVRG	10.0	20.0
Chrysene	2.44	2.50	AVRG	2.4	20.0
Di-n-octylphthalate	2.75	2.50	AVRG	10.0	20.0
Benzo(b)fluoranthene	2.36	2.50	AVRG	5.6	20.0
Benzo(k)fluoranthene	2.51	2.50	AVRG	0.4	20.0
Benzo(a)pyrene	2.58	2.50	AVRG	3.2	20.0
Indeno(1,2,3-cd)pyrene	2.44	2.50	AVRG	2.4	20.0
Dibenzo(a,h)anthracene	2.42	2.50	AVRG	3.2	20.0
Benzo(g,h,i)perylene	2.50	2.50	AVRG	0.0	20.0
Acetophenone	2.40	2.50	AVRG	4.0	20.0
Caprolactam	2.32	2.50	AVRG	7.2	20.0
1,1'-Biphenyl	2.44	2.50	AVRG	2.4	20.0
Benzaldehyde	2.22	2.50	AVRG	11.2	20.0
Atrazine	2.43	2.50	AVRG	2.8	20.0
Phenol-d6	2.42	2.50	AVRG	3.2	20.0
2-Fluorophenol	2.48	2.50	AVRG	0.8	20.0
Nitrobenzene-d5	2.39	2.50	AVRG	4.4	20.0
2-Fluorobiphenyl	2.55	2.50	AVRG	2.0	20.0
2,4,6-Tribromophenol	2.42	2.50	AVRG	3.2	20.0
4-Terphenyl-d14	2.51	2.50	AVRG	0.4	20.0

FORM VII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 002 Date Analyzed: 09/18/10

Instrument ID: SV6 Time Analyzed: 1224

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	491089	3.66	1967057	4.78	935029	6.46
	UPPER LIMIT	982178	4.16	3934114	5.28	1870058	6.96
	LOWER LIMIT	245545	3.16	983529	4.28	467515	5.96
	CLIENT SAMPLE NO.						
01	SBLKW1-10091	362644	3.66	1469166	4.78	688040	6.47
02	SLCSW1-10091	406668	3.66	1591230	4.78	756262	6.46
03	SLCSDW1-1009	390560	3.66	1601437	4.78	783686	6.46
04	1009543-02E	531066	3.66	2022900	4.78	1000428	6.46
05	1009543-04E	568861	3.66	2225892	4.78	1065361	6.46
06	1009543-05E	520623	3.66	2008025	4.78	948006	6.46
07	1009543-07E	389018	3.66	1457765	4.78	711506	6.46
08	1009543-08E	292429	3.66	1047733	4.78	547748	6.46
09	1009543-10E	492618	3.66	1871419	4.78	893753	6.46
10	1009543-11E	457146	3.66	1786766	4.78	837698	6.46
11	1009543-13E	474127	3.66	1791428	4.78	848701	6.46
12	1009543-14E	421796	3.66	1583505	4.78	770054	6.46
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 002 Date Analyzed: 09/18/10

Instrument ID: SV6 Time Analyzed: 1224

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1498986		7.92		1291164		10.79		1150930		12.90	
	UPPER LIMIT	2997972		8.42		2582328		11.29		2301860		13.40	
	LOWER LIMIT	749493		7.42		645582		10.29		575465		12.40	
	CLIENT SAMPLE NO.												
01	SBLKW1-10091	1090549		7.93		868300		10.80		792902		12.90	
02	SLCSW1-10091	1238482		7.92		1008765		10.79		933558		12.89	
03	SLCSDW1-1009	1226967		7.92		1030043		10.79		942123		12.89	
04	1009543-02E	1616989		7.92		1333580		10.79		1197395		12.89	
05	1009543-04E	1783833		7.92		1435739		10.79		1326386		12.89	
06	1009543-05E	1610373		7.92		1295310		10.79		1180259		12.89	
07	1009543-07E	1189791		7.92		959038		10.79		867651		12.89	
08	1009543-08E	905509		7.92		713954		10.79		651352		12.89	
09	1009543-10E	1532870		7.92		1235351		10.79		1107134		12.89	
10	1009543-11E	1449590		7.92		1150195		10.79		1034220		12.89	
11	1009543-13E	1458844		7.92		1144616		10.79		1063173		12.89	
12	1009543-14E	1293342		7.92		1069190		10.79		975707		12.89	
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 internal standard area values with an asterisk.
* Values outside of QC limits.

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\001.D

Date : 18-SEP-2010 12:14

Client ID: DFTPP

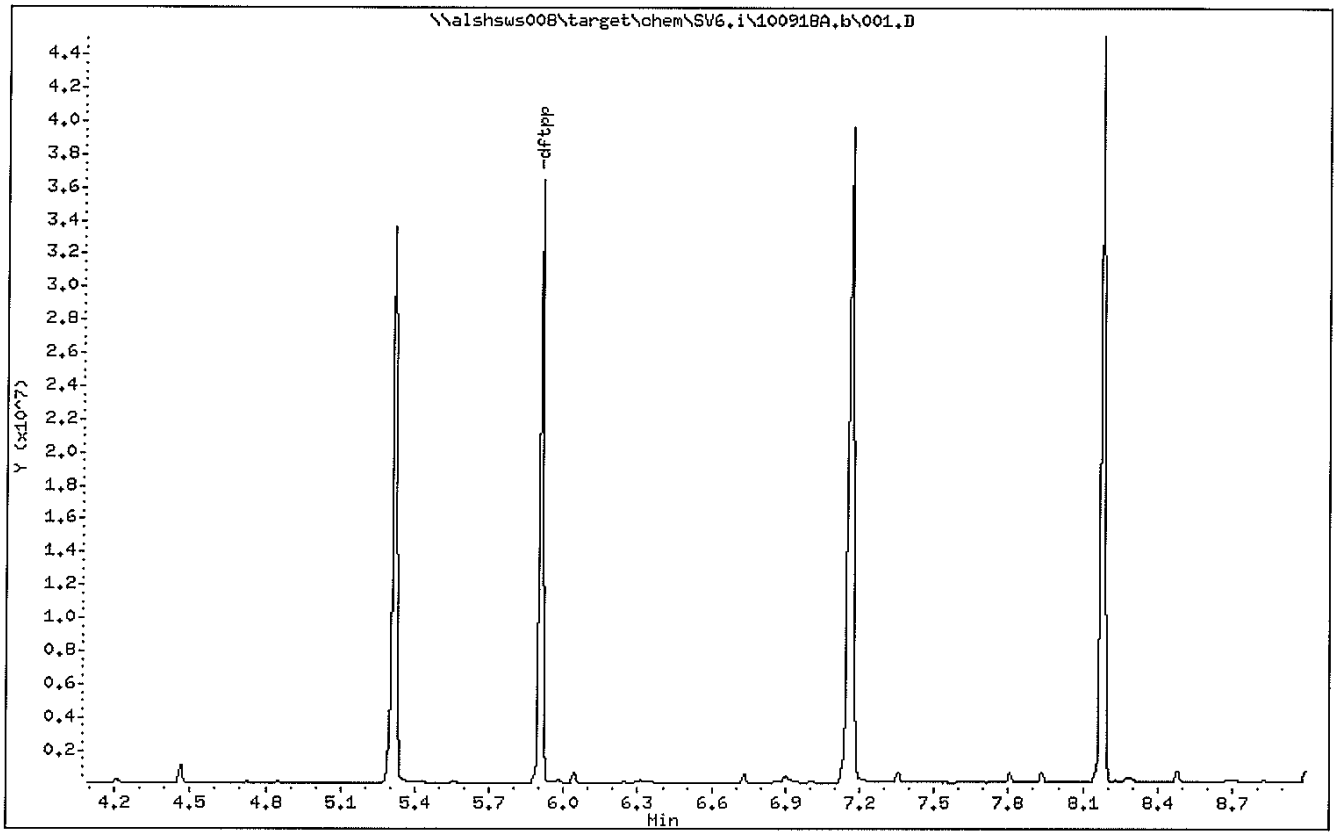
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: LG

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\alshsws008\target\chem\SV6.i\100918A.b\001.D

Date : 18-SEP-2010 12:14

Client ID: DFTPP

Instrument: SV6.i

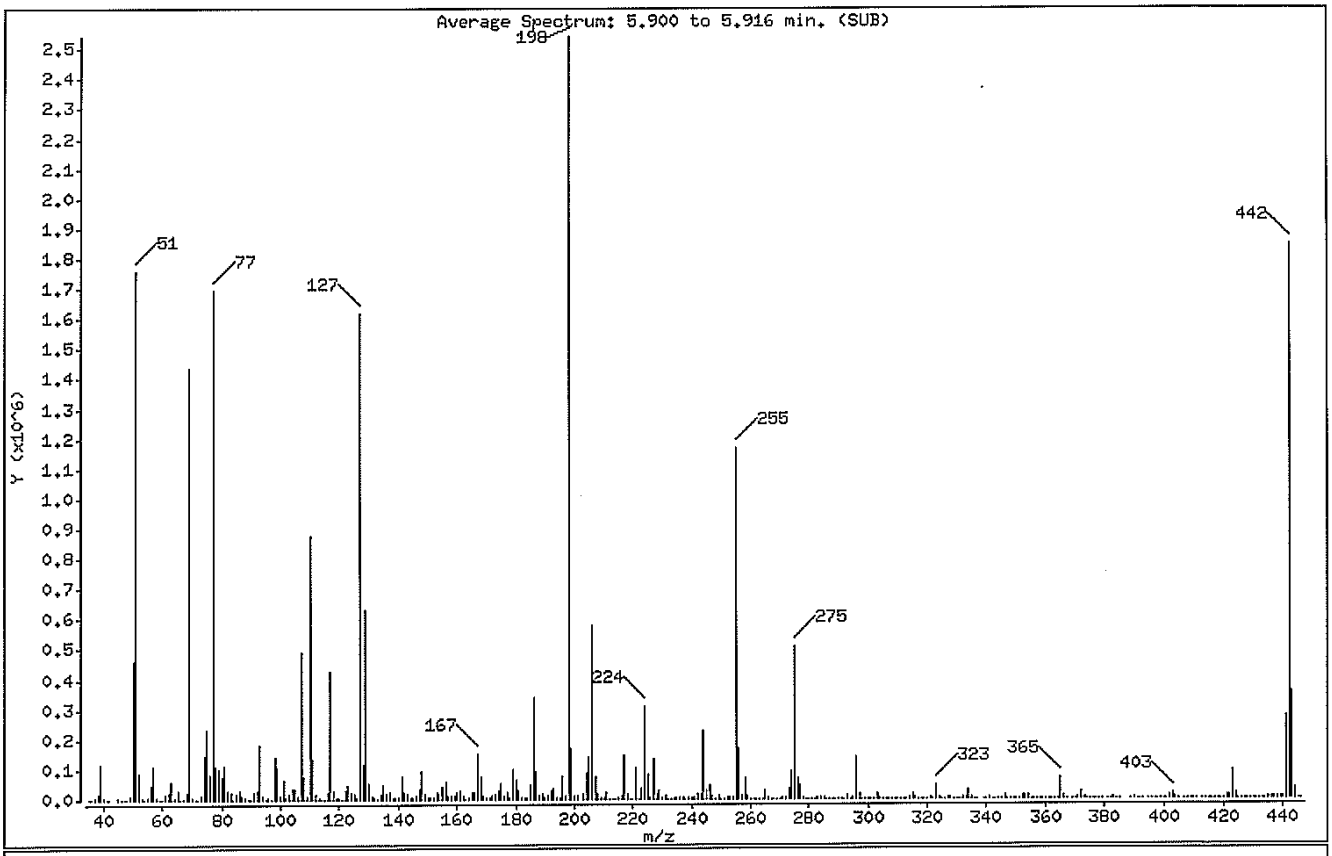
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: LG

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	69.13
68	Less than 2.00% of mass 69	0.85 (1.51)
69	Mass 69 relative abundance	56.51
70	Less than 2.00% of mass 69	0.25 (0.45)
127	10.00 - 80.00% of mass 198	63.73
197	Less than 2.00% of mass 198	0.37
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 60.00% of mass 198	19.99
365	1.00 - 100.00% of mass 198	2.73
441	Present, but less than mass 443	10.88
442	50.00 - 150.00% of mass 198	72.76
443	15.00 - 24.00% of mass 442	14.03 (19.29)

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\001.D

Date : 18-SEP-2010 12:14

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: LG

Column phase: DB-5MS

Column diameter: 0.25

Data File: 001.D
Spectrum: Average Spectrum: 5.900 to 5.916 min. (SUB)
Location of Maximum: 198.00
Number of points: 400

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	224	138.00	4730	240.00	3494	342.00	1526
36.00	2118	139.00	2966	241.00	7735	343.00	270
37.00	5667	140.00	6856	242.00	15378	344.00	234
38.00	19840	141.00	75216	243.00	19032	345.00	252
39.00	119128	142.00	23200	244.00	225088	346.00	10362
40.00	5401	143.00	16363	245.00	30168	347.00	1949
41.00	2500	144.00	3958	246.00	44176	348.00	208
42.00	290	145.00	3955	247.00	9886	349.00	66
45.00	3208	146.00	13039	248.00	2450	350.00	753
46.00	175	147.00	35792	249.00	8774	351.00	1005
47.00	379	148.00	93872	250.00	1989	352.00	13102
48.00	700	149.00	17016	251.00	2635	353.00	9838
49.00	10729	150.00	4565	252.00	3963	354.00	13570
50.00	462976	151.00	8533	253.00	7930	355.00	2467
51.00	1757184	152.00	5267	254.00	6747	356.00	357
52.00	86304	153.00	21344	255.00	1167872	357.00	348
53.00	3110	154.00	17120	256.00	169280	358.00	350
54.00	57	155.00	38048	257.00	13208	359.00	1251
55.00	6975	156.00	55528	258.00	69048	360.00	316
56.00	45248	157.00	10786	259.00	10888	361.00	653
57.00	109440	158.00	11322	260.00	1800	362.00	484
58.00	4808	159.00	9252	261.00	1916	363.00	1170
59.00	1406	160.00	21712	262.00	680	364.00	298
60.00	686	161.00	31336	263.00	589	365.00	69328
61.00	18864	162.00	9904	264.00	1466	366.00	9129
62.00	21480	163.00	2247	265.00	27504	367.00	767
63.00	59448	164.00	3986	266.00	4355	369.00	245
64.00	7270	165.00	23504	267.00	426	370.00	1713
65.00	28040	166.00	21560	268.00	301	371.00	3433
66.00	1440	167.00	152320	269.00	347	372.00	25592
67.00	1408	168.00	74440	270.00	1543	373.00	6029
68.00	21680	169.00	12504	271.00	2955	374.00	965
69.00	1436672	170.00	4443	272.00	4432	375.00	209
70.00	6401	171.00	5331	273.00	34304	376.00	77
71.00	951	172.00	11354	274.00	91120	377.00	596

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\001.D

Date : 18-SEP-2010 12:14

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: LG

Column phase: DB-5MS

Column diameter: 0.25

Data File: 001.D
Spectrum: Average Spectrum: 5.900 to 5.916 min. (SUB)
Location of Maximum: 198.00
Number of points: 400

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	784	173.00	15257	275.00	508160	378.00	39
73.00	10484	174.00	27392	276.00	67928	379.00	41
74.00	146048	175.00	52144	277.00	44712	381.00	40
75.00	233152	176.00	14307	278.00	6828	382.00	47
76.00	81264	177.00	21560	279.00	1503	383.00	6791
77.00	1697280	178.00	7956	280.00	206	384.00	1961
78.00	111952	179.00	98056	281.00	304	385.00	594
79.00	97008	180.00	63104	282.00	1029	389.00	272
80.00	76488	181.00	28008	283.00	4848	390.00	4534
81.00	112992	182.00	4569	284.00	3201	391.00	2309
82.00	27648	183.00	3572	285.00	7857	392.00	1689
83.00	25264	184.00	6918	286.00	1322	393.00	384
84.00	1810	185.00	45568	287.00	358	395.00	290
85.00	18832	186.00	339776	288.00	581	396.00	338
86.00	31496	187.00	94792	289.00	1839	397.00	468
87.00	13487	188.00	9357	290.00	1493	398.00	50
88.00	5331	189.00	20064	291.00	905	399.00	59
89.00	2520	190.00	4038	292.00	2253	400.00	85
90.00	604	191.00	10337	293.00	9923	401.00	1457
91.00	23432	192.00	29664	294.00	2850	402.00	10451
92.00	27312	193.00	32624	295.00	3713	403.00	14987
93.00	178880	194.00	7183	296.00	142272	404.00	5134
94.00	12884	195.00	5957	297.00	19296	405.00	723
95.00	2701	196.00	74984	298.00	1509	407.00	42
96.00	8248	197.00	9502	299.00	438	408.00	110
97.00	2643	198.00	2542080	300.00	432	409.00	42
98.00	142720	199.00	168448	301.00	1845	410.00	506
99.00	103312	200.00	12719	302.00	2505	411.00	69
100.00	8989	201.00	9430	303.00	15909	413.00	197
101.00	64080	203.00	16832	304.00	4253	414.00	74
102.00	3182	204.00	86392	305.00	581	415.00	765
103.00	19624	205.00	142272	306.00	302	416.00	397
104.00	37416	206.00	579392	307.00	292	417.00	591
105.00	35736	207.00	73056	308.00	2398	418.00	222
106.00	12106	208.00	18392	309.00	1425	419.00	910

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\001.D

Date : 18-SEP-2010 12:14

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: LG

Column phase: DB-5MS

Column diameter: 0.25

Data File: 001.D

Spectrum: Average Spectrum: 5.900 to 5.916 min. (SUB)

Location of Maximum: 198.00

Number of points: 400

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	492800	209.00	6272	310.00	1935	420.00	39
108.00	74992	210.00	6970	311.00	518	421.00	14300
109.00	12769	211.00	21712	312.00	529	422.00	12427
110.00	876928	212.00	640	313.00	1399	423.00	92032
111.00	132032	213.00	1873	314.00	6965	424.00	17888
112.00	15515	214.00	833	315.00	14797	425.00	1756
113.00	5259	215.00	6324	316.00	7221	426.00	469
114.00	1373	216.00	12835	317.00	1608	427.00	548
115.00	2089	217.00	148992	318.00	367	428.00	487
116.00	23824	218.00	19504	319.00	528	429.00	587
117.00	428864	219.00	2251	320.00	1173	430.00	1089
118.00	30328	220.00	1203	321.00	4691	431.00	1548
119.00	3128	221.00	102568	322.00	2369	432.00	1008
120.00	5652	222.00	2640	323.00	45000	433.00	1574
121.00	2411	223.00	35112	324.00	8330	434.00	1727
122.00	28968	224.00	309568	325.00	899	435.00	3342
123.00	46192	225.00	79712	326.00	948	436.00	3504
124.00	20752	226.00	8717	327.00	8111	437.00	5353
125.00	19648	227.00	134528	328.00	4452	438.00	4827
126.00	6167	228.00	18144	329.00	903	439.00	7496
127.00	1619968	229.00	28472	330.00	413	440.00	6571
128.00	118624	230.00	3626	331.00	288	441.00	276672
129.00	631104	231.00	10475	332.00	3857	442.00	1849344
130.00	52856	232.00	1757	333.00	4354	443.00	356736
131.00	9426	233.00	2429	334.00	27912	444.00	33256
132.00	4868	234.00	7818	335.00	7296	445.00	1769
133.00	1697	235.00	8463	336.00	900	446.00	135
134.00	15981	236.00	7571	337.00	68		
135.00	47880	237.00	8690	339.00	825		
136.00	18480	238.00	1055	340.00	672		
137.00	24600	239.00	4937	341.00	5477		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\002.D
Lab Smp Id: SLSTD-2.5 Client Smp ID: SLSTD-2.5
Inj Date : 18-SEP-2010 12:24 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SLSTD-2.5;SLSTD-2.5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	491089	2.00000	
$ 9 2-Fluorophenol	112	2.712	2.712	(0.740)	940052	2.50000	2.48
$ 13 Phenol-d6	99	3.332	3.332	(0.909)	1209182	2.50000	2.42
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	1967057	2.00000	
$ 33 Nitrobenzene-d5	82	4.124	4.124	(0.863)	1027221	2.50000	2.39
* 86 Acenaphthene-d10	164	6.461	6.461	(1.000)	935029	2.00000	
$ 69 2-Fluorobiphenyl	172	5.803	5.803	(0.898)	1646539	2.50000	2.55
* 126 Phenanthrene-d10	188	7.921	7.921	(1.000)	1498986	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.237	7.237	(1.120)	165839	2.50000	2.42
* 182 Chrysene-d12	240	10.793	10.793	(1.000)	1291164	2.00000	
$ 158 4-Terphenyl-d14	244	9.520	9.520	(0.882)	1300840	2.50000	2.51
* 198 Perylene-d12	264	12.895	12.895	(1.000)	1150930	2.00000	
12 Benzaldehyde	77	3.321	3.321	(0.907)	695688	2.50000	2.22
14 Phenol	94	3.343	3.343	(0.912)	1201067	2.50000	2.42
17 Bis(2-chloroethyl)ether	93	3.428	3.428	(0.936)	1026966	2.50000	2.45
18 2-Chlorophenol	128	3.493	3.493	(0.953)	912857	2.50000	2.41
24 2-Methylphenol	108	3.840	3.840	(1.048)	843974	2.50000	2.44
29 3&4-Methylphenol	107	3.969	3.969	(1.083)	986504	2.50000	2.44
25 bis(2-Chloroisopropyl)ether	45	3.872	3.872	(1.057)	1585175	2.50000	2.16
27 Acetophenone	105	3.990	3.990	(0.835)	1293151	2.50000	2.40
28 N-Nitroso-di-n-propylamine	70	3.985	3.985	(1.088)	685954	2.50000	2.37
31 Hexachloroethane	117	4.097	4.097	(1.118)	425161	2.50000	2.45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
35 Nitrobenzene	77	4.140	4.140	(0.867)	1016668	2.50000	2.45
36 Isophorone	82	4.348	4.348	(0.910)	1826487	2.50000	2.42
37 2-Nitrophenol	139	4.423	4.423	(0.926)	435496	2.50000	2.52
40 2,4-Dimethylphenol	122	4.445	4.445	(0.931)	800854	2.50000	2.41
41 Bis(2-chloroethoxy)methane	93	4.535	4.535	(0.950)	1146467	2.50000	2.40
43 2,4-Dichlorophenol	162	4.637	4.637	(0.971)	662320	2.50000	2.52
46 Naphthalene	128	4.798	4.798	(1.004)	2681539	2.50000	2.52
48 4-Chloroaniline	127	4.835	4.835	(1.012)	1107359	2.50000	2.44
51 Hexachlorobutadiene	225	4.915	4.915	(1.029)	315903	2.50000	2.50
57 Caprolactam	113	5.140	5.140	(1.076)	246415	2.50000	2.32
58 4-Chloro-3-Methylphenol	107	5.290	5.290	(1.107)	775131	2.50000	2.45
61 2-Methylnaphthalene	141	5.450	5.450	(1.141)	1449330	2.50000	2.54
63 Hexachlorocyclopentadiene	237	5.611	5.611	(0.868)	332451	2.50000	2.46
66 2,4,6-Trichlorophenol	196	5.718	5.718	(0.885)	402126	2.50000	2.48
68 2,4,5-Trichlorophenol	196	5.750	5.750	(0.890)	436792	2.50000	2.64
73 1,1'-Biphenyl	154	5.899	5.899	(0.913)	1835952	2.50000	2.44
74 2-Chloronaphthalene	162	5.915	5.915	(0.916)	1549824	2.50000	2.17
77 2-Nitroaniline	65	6.012	6.012	(0.930)	548426	2.50000	2.50
80 Dimethylphthalate	163	6.194	6.194	(0.959)	1649402	2.50000	2.56
82 2,6-Dinitrotoluene	165	6.247	6.247	(0.967)	366566	2.50000	2.64
83 Acenaphthylene	152	6.322	6.322	(0.978)	2410120	2.50000	2.54
85 3-Nitroaniline	138	6.408	6.408	(0.992)	451702	2.50000	2.54
88 Acenaphthene	154	6.493	6.493	(1.005)	1399755	2.50000	2.40
89 2,4-Dinitrophenol	184	6.514	6.514	(1.008)	146410	2.50000	2.32
90 4-Nitrophenol	109	6.568	6.568	(1.017)	257530	2.50000	2.53
92 Dibenzofuran	168	6.659	6.659	(1.031)	1962390	2.50000	2.48
93 2,4-Dinitrotoluene	165	6.638	6.638	(1.027)	483790	2.50000	2.72(H)
97 Diethylphthalate	149	6.884	6.884	(1.065)	1718798	2.50000	2.54
98 Fluorene	166	6.996	6.996	(1.083)	1643780	2.50000	2.50
99 4-Chlorophenyl phenyl ether	204	6.996	6.996	(1.083)	616195	2.50000	2.46
100 4-Nitroaniline	138	7.007	7.007	(1.084)	462969	2.50000	2.60
101 4,6-Dinitro-2-methylphenol	198	7.044	7.044	(0.889)	209821	2.50000	2.57
102 N-Nitrosodiphenylamine	169	7.108	7.108	(0.897)	1361733	2.50000	2.50
112 4-Bromophenyl-phenylether	248	7.477	7.477	(0.944)	333837	2.50000	2.38
113 Hexachlorobenzene	284	7.547	7.547	(0.953)	342620	2.50000	2.40
118 Atrazine	200	7.632	7.632	(0.964)	364163	2.50000	2.43
121 Pentachlorophenol	266	7.739	7.739	(0.977)	214810	2.50000	2.80
128 Phenanthrene	178	7.943	7.943	(1.003)	2258039	2.50000	2.52
130 Anthracene	178	7.991	7.991	(1.009)	2286448	2.50000	2.59
134 Carbazole	167	8.146	8.146	(1.028)	2185579	2.50000	2.50
140 Di-n-butylphthalate	149	8.499	8.499	(1.073)	2984811	2.50000	2.68
149 Fluoranthene	202	9.119	9.119	(1.151)	2081892	2.50000	2.54
155 Pyrene	202	9.355	9.355	(0.867)	2295742	2.50000	2.59
173 Butylbenzylphthalate	149	10.082	10.082	(0.934)	1298179	2.50000	2.72
180 3,3'-Dichlorobenzidine	252	10.751	10.751	(0.996)	584474	2.50000	2.40
181 Benzo(a)Anthracene	228	10.783	10.783	(0.999)	1909500	2.50000	2.54
183 Chrysene	228	10.831	10.831	(1.003)	1790592	2.50000	2.44
184 bis(2-ethylhexyl)phthalate	149	10.842	10.842	(1.004)	1887252	2.50000	2.75
190 Di-n-octylphthalate	149	11.783	11.783	(0.914)	2983588	2.50000	2.75
192 Benzo(b)fluoranthene	252	12.323	12.323	(0.956)	1649930	2.50000	2.36
195 Benzo(k)fluoranthene	252	12.361	12.361	(0.959)	1805222	2.50000	2.51
197 Benzo(a)pyrene	252	12.810	12.810	(0.993)	1679386	2.50000	2.58
209 Indeno(1,2,3-cd)pyrene	276	14.473	14.473	(1.122)	1544678	2.50000	2.44(M)
210 Dibenzo(a,h)anthracene	278	14.511	14.511	(1.125)	1479035	2.50000	2.42

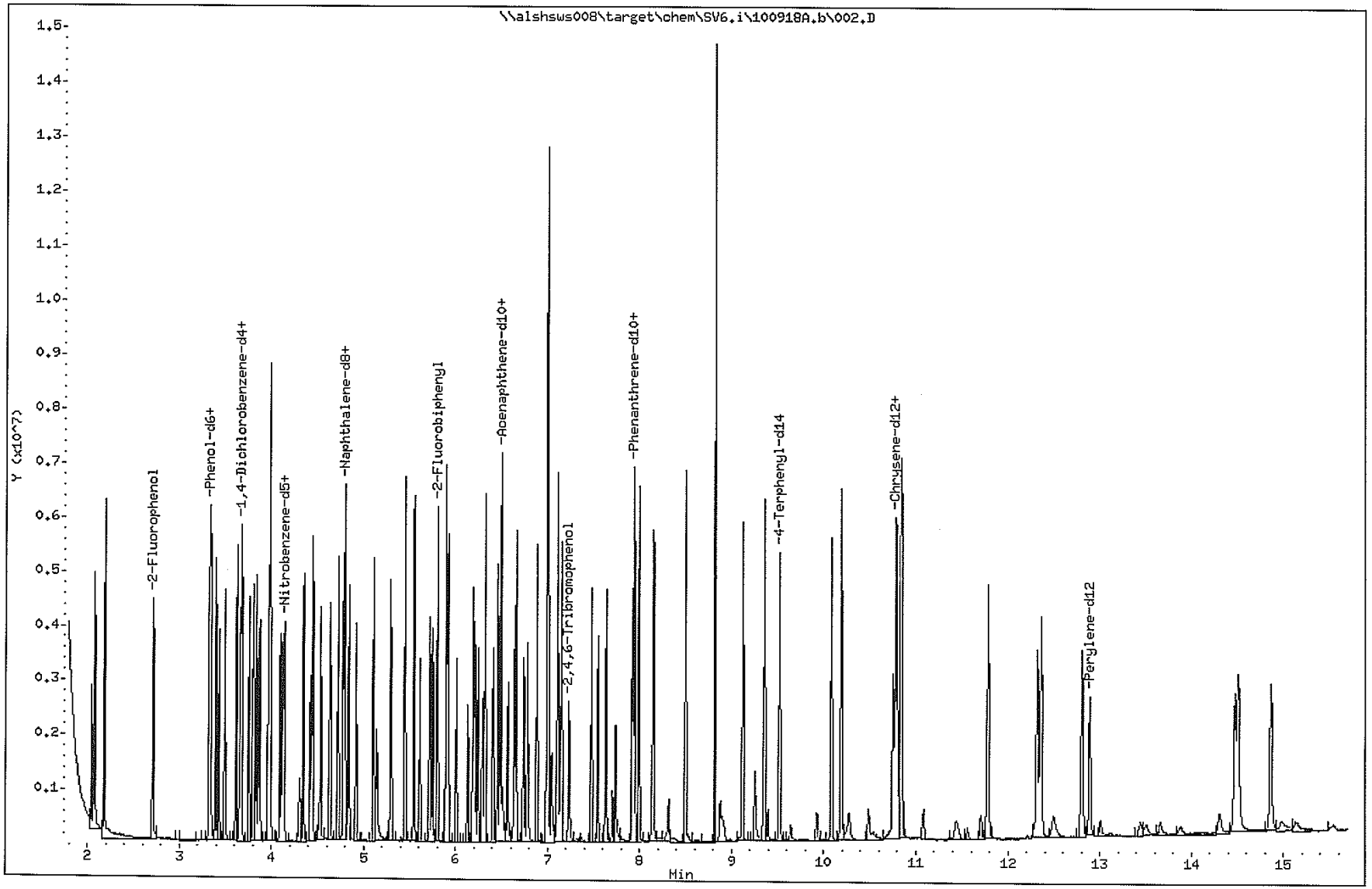
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
212 Benzo(g,h,i)perylene	276	14.869	14.869	(1.153)	1592414	2.50000	2.50

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\002.D
Date : 18-SEP-2010 12:24
Client ID: SLSTD-2.5
Sample Info: SLSTD-2.5;SLSTD-2.5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\003.D
Lab Smp Id: SBLKW1-100918 Client Smp ID: SBLKW1-100918
Inj Date : 18-SEP-2010 12:56 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SBLKW1-100918;SBLKW1-100918;3;;BLANK
Misc Info : 1009537;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14

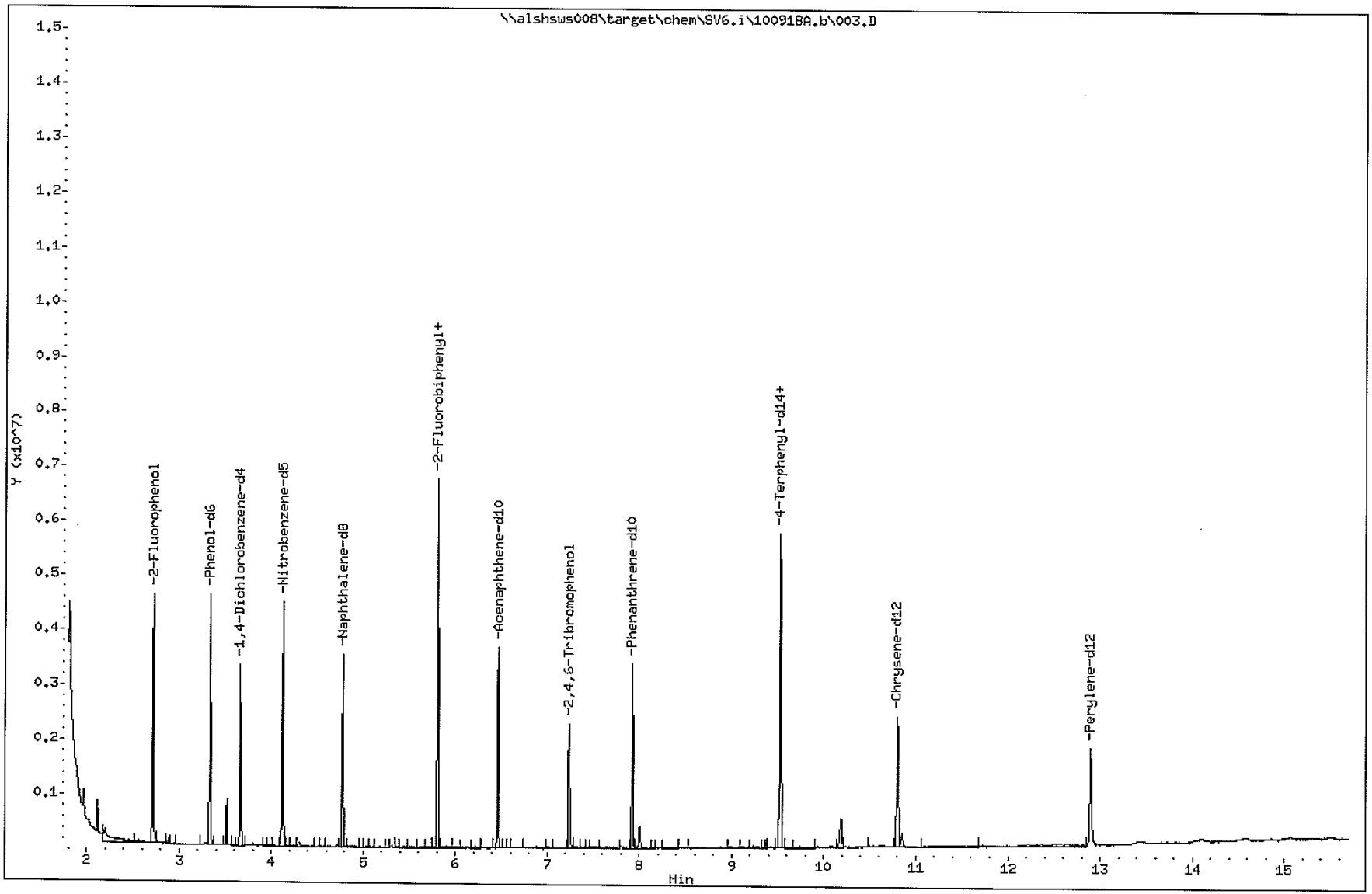
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	362644	2.00000	
$ 9 2-Fluorophenol	112	2.717	2.712	(0.742)	938504	3.35660	3.35
$ 13 Phenol-d6	99	3.332	3.332	(0.910)	1331369	3.62188	3.62
* 45 Naphthalene-d8	136	4.782	4.776	(1.000)	1469166	2.00000	
$ 33 Nitrobenzene-d5	82	4.124	4.124	(0.862)	1119307	3.49860	3.49
* 86 Acenaphthene-d10	164	6.466	6.461	(1.000)	688040	2.00000	
$ 69 2-Fluorobiphenyl	172	5.803	5.803	(0.897)	1802862	3.79570	3.79
* 126 Phenanthrene-d10	188	7.927	7.921	(1.000)	1090549	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.237	7.237	(1.119)	151790	3.01860	3.01
* 182 Chrysene-d12	240	10.799	10.793	(1.000)	868300	2.00000	
$ 158 4-Terphenyl-d14	244	9.526	9.520	(0.882)	1368190	3.92898	3.92
* 198 Perylene-d12	264	12.901	12.895	(1.000)	792902	2.00000	

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\003.D
Date : 18-SEP-2010 12:56
Client ID: SBLKW1-100918
Sample Info: SBLKW1-100918;SBLKW1-100918;3;;BLANK
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\004.D
Lab Smp Id: SLCSW1-100918 Client Smp ID: SLCSW1-100918
Inj Date : 18-SEP-2010 13:16 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SLCSW1-100918;SLCSW1-100918;3;;LCS
Misc Info : 1009537;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	406668	2.00000	
$ 9 2-Fluorophenol	112	2.712	2.712	(0.740)	1079471	3.44282	3.44
$ 13 Phenol-d6	99	3.332	3.332	(0.910)	1456588	3.53356	3.53
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	1591230	2.00000	
$ 33 Nitrobenzene-d5	82	4.124	4.124	(0.863)	1255132	3.62220	3.62
* 86 Acenaphthene-d10	164	6.461	6.461	(1.000)	756262	2.00000	
$ 69 2-Fluorobiphenyl	172	5.803	5.803	(0.898)	2014822	3.85929	3.85
* 126 Phenanthrene-d10	188	7.916	7.921	(1.000)	1238482	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.231	7.237	(1.119)	204793	3.70526	3.70
* 182 Chrysene-d12	240	10.794	10.793	(1.000)	1008765	2.00000	
$ 158 4-Terphenyl-d14	244	9.515	9.520	(0.882)	1556372	3.84704	3.84
* 198 Perylene-d12	264	12.890	12.895	(1.000)	933558	2.00000	
12 Benzaldehyde	77	3.322	3.321	(0.907)	220913	0.85287	0.85
14 Phenol	94	3.343	3.343	(0.912)	1531360	3.73950	3.73
17 Bis(2-chloroethyl)ether	93	3.429	3.428	(0.936)	1264366	3.65384	3.65
18 2-Chlorophenol	128	3.493	3.493	(0.953)	1160961	3.70545	3.70
24 2-Methylphenol	108	3.840	3.840	(1.048)	1059250	3.70467	3.70
29 3&4-Methylphenol	107	3.969	3.969	(1.083)	1243999	3.71785	3.71
25 bis(2-Chloroisopropyl)ether	45	3.867	3.872	(1.055)	1948985	3.20811	3.20
27 Acetophenone	105	3.985	3.990	(0.834)	1618345	3.71457	3.71
28 N-Nitroso-di-n-propylamine	70	3.985	3.985	(1.088)	864424	3.60668	3.60

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
31 Hexachloroethane	117	4.097	4.097	(1.118)	514665	3.59244	3.59
35 Nitrobenzene	77	4.140	4.140	(0.867)	1299240	3.87322	3.87
36 Isophorone	82	4.343	4.348	(0.909)	2312268	3.79387	3.79
37 2-Nitrophenol	139	4.423	4.423	(0.926)	569899	4.08247	4.08
40 2,4-Dimethylphenol	122	4.445	4.445	(0.931)	952173	3.55374	3.55
41 Bis(2-chloroethoxy)methane	93	4.536	4.535	(0.950)	1459624	3.78885	3.78
43 2,4-Dichlorophenol	162	4.637	4.637	(0.971)	845834	3.98497	3.98
46 Naphthalene	128	4.792	4.798	(1.003)	3429404	3.99543	3.99
48 4-Chloroaniline	127	4.835	4.835	(1.012)	1314577	3.59201	3.59
51 Hexachlorobutadiene	225	4.915	4.915	(1.029)	387443	3.79279	3.79
57 Caprolactam	113	5.140	5.140	(1.076)	315320	3.67264	3.67
58 4-Chloro-3-Methylphenol	107	5.290	5.290	(1.107)	990049	3.88166	3.88
61 2-Methylnaphthalene	141	5.450	5.450	(1.141)	1823302	3.95492	3.95
63 Hexachlorocyclopentadiene	237	5.611	5.611	(0.868)	400392	3.66552	3.66
66 2,4,6-Trichlorophenol	196	5.718	5.718	(0.885)	551322	4.21148	4.21
68 2,4,5-Trichlorophenol	196	5.750	5.750	(0.890)	538750	4.03801	4.03
73 1,1'-Biphenyl	154	5.900	5.899	(0.913)	2413187	3.98019	3.98
74 2-Chloronaphthalene	162	5.916	5.915	(0.916)	2309434	4.24035	4.24
77 2-Nitroaniline	65	6.012	6.012	(0.930)	879552	4.95990	4.95
80 Dimethylphthalate	163	6.194	6.194	(0.959)	2125344	4.08783	4.08
82 2,6-Dinitrotoluene	165	6.242	6.247	(0.966)	485000	4.32055	4.32
83 Acenaphthylene	152	6.322	6.322	(0.978)	3073407	4.01390	4.01
85 3-Nitroaniline	138	6.408	6.408	(0.992)	579219	4.03784	4.03
88 Acenaphthene	154	6.493	6.493	(1.005)	1839028	3.90673	3.90
89 2,4-Dinitrophenol	184	6.515	6.514	(1.008)	170295	3.23136	3.23(Q)
90 4-Nitrophenol	109	6.568	6.568	(1.017)	362449	4.41813	4.41
92 Dibenzofuran	168	6.659	6.659	(1.031)	2619267	4.10525	4.10
93 2,4-Dinitrotoluene	165	6.638	6.638	(1.027)	636735	4.43470	4.43
97 Diethylphthalate	149	6.884	6.884	(1.065)	2254774	4.12567	4.12
98 Fluorene	166	6.996	6.996	(1.083)	2168512	4.08848	4.08
99 4-Chlorophenyl phenyl ether	204	6.996	6.996	(1.083)	830558	4.10003	4.10
100 4-Nitroaniline	138	7.007	7.007	(1.084)	634963	4.41049	4.41
101 4,6-Dinitro-2-methylphenol	198	7.044	7.044	(0.890)	251987	3.63207	3.63
102 N-Nitrosodiphenylamine	169	7.108	7.108	(0.898)	1801449	4.00645	4.00
112 4-Bromophenyl-phenylether	248	7.477	7.477	(0.945)	453719	3.92436	3.92
113 Hexachlorobenzene	284	7.547	7.547	(0.953)	465938	3.96056	3.96
118 Atrazine	200	7.633	7.632	(0.964)	495974	4.01709	4.01
121 Pentachlorophenol	266	7.740	7.739	(0.978)	230041	3.56928	3.56
128 Phenanthrene	178	7.943	7.943	(1.003)	2931010	3.96100	3.96
130 Anthracene	178	7.991	7.991	(1.009)	2972149	4.07506	4.07
134 Carbazole	167	8.146	8.146	(1.029)	2944683	4.07987	4.07
140 Di-n-butylphthalate	149	8.499	8.499	(1.074)	4039110	4.39794	4.39
149 Fluoranthene	202	9.119	9.119	(1.152)	2754547	4.06775	4.06
155 Pyrene	202	9.349	9.355	(0.866)	3056370	4.41893	4.41
173 Butylbenzylphthalate	149	10.077	10.082	(0.934)	1755160	4.70899	4.70
180 3,3'-Dichlorobenzidine	252	10.751	10.751	(0.996)	757035	3.99312	3.99
181 Benzo(a)Anthracene	228	10.778	10.783	(0.999)	2551368	4.34517	4.34
183 Chrysene	228	10.826	10.831	(1.003)	2491924	4.35935	4.35
184 bis(2-ethylhexyl)phthalate	149	10.842	10.842	(1.004)	2600112	4.85179	4.85
190 Di-n-octylphthalate	149	11.783	11.783	(0.914)	4122852	4.68708	4.68
192 Benzo(b)fluoranthene	252	12.323	12.323	(0.956)	2648738	4.67870	4.67
195 Benzo(k)fluoranthene	252	12.361	12.361	(0.959)	2553013	4.39268	4.39
197 Benzo(a)pyrene	252	12.805	12.810	(0.993)	2286350	4.33309	4.33
209 Indeno(1,2,3-cd)pyrene	276	14.473	14.473	(1.123)	2005998	3.91456	3.91(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
210 Dibenzo(a,h)anthracene	278	14.506	14.511	(1.125)	2132175	4.31716	4.31
212 Benzo(g,h,i)perylene	276	14.864	14.869	(1.153)	2200543	4.26748	4.26

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\004.D
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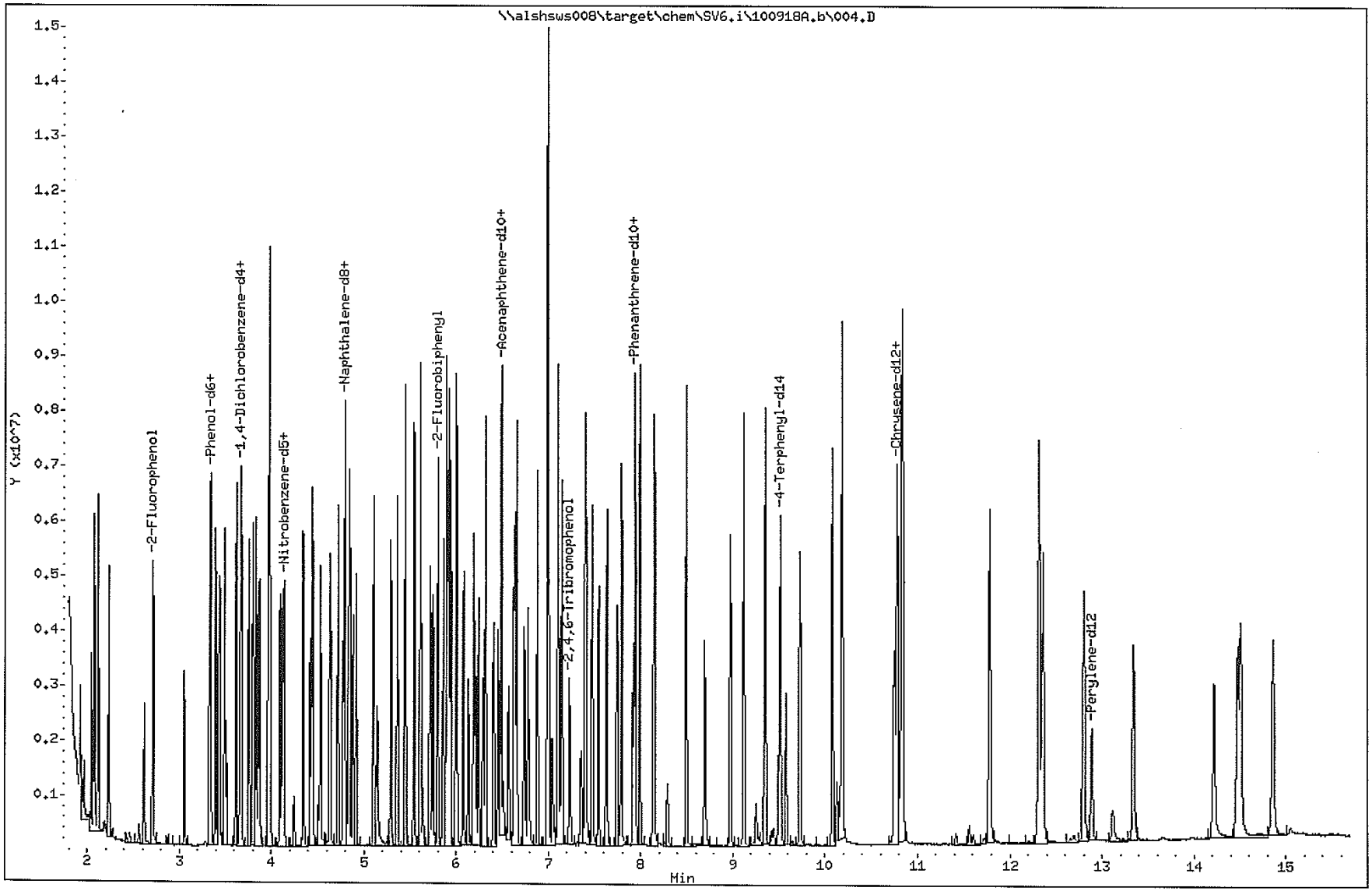
Sample Info: SLCSW1-100918;SLCSW1-100918;3;;LCS
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\005.D
Lab Smp Id: SLCSDW1-100918 Client Smp ID: SLCSDW1-100918
Inj Date : 18-SEP-2010 13:35 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : SLCSDW1-100918;SLCSDW1-100918;3;;LCSD
Misc Info : 1009537;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	390560	2.00000	(Q)
$ 9 2-Fluorophenol	112	2.712	2.712	(0.740)	1165061	3.86905	3.86
$ 13 Phenol-d6	99	3.332	3.332	(0.909)	1538466	3.88612	3.88
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	1601437	2.00000	
$ 33 Nitrobenzene-d5	82	4.118	4.124	(0.862)	1335784	3.83039	3.83
* 86 Acenaphthene-d10	164	6.461	6.461	(1.000)	783686	2.00000	
$ 69 2-Fluorobiphenyl	172	5.803	5.803	(0.898)	2187215	4.04289	4.04
* 126 Phenanthrene-d10	188	7.916	7.921	(1.000)	1226967	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.231	7.237	(1.119)	221439	3.86623	3.86
* 182 Chrysene-d12	240	10.788	10.793	(1.000)	1030043	2.00000	
$ 158 4-Terphenyl-d14	244	9.515	9.520	(0.882)	1633936	3.95533	3.95
* 198 Perylene-d12	264	12.890	12.895	(1.000)	942123	2.00000	
12 Benzaldehyde	77	3.321	3.321	(0.907)	227684	0.91526	0.91
14 Phenol	94	3.343	3.343	(0.912)	1615535	4.10776	4.10
17 Bis(2-chloroethyl)ether	93	3.428	3.428	(0.936)	1388891	4.17924	4.17
18 2-Chlorophenol	128	3.493	3.493	(0.953)	1238451	4.11580	4.11
24 2-Methylphenol	108	3.840	3.840	(1.048)	1155447	4.20778	4.20
29 3&4-Methylphenol	107	3.969	3.969	(1.083)	1317520	4.09998	4.09
25 bis(2-Chloroisopropyl)ether	45	3.872	3.872	(1.057)	2106428	3.61027	3.61
27 Acetophenone	105	3.985	3.990	(0.834)	1731789	3.94962	3.94
28 N-Nitroso-di-n-propylamine	70	3.979	3.985	(1.086)	926565	4.02540	4.02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
31 Hexachloroethane	117	4.097	4.097	(1.118)	564473	4.10261	4.10
35 Nitrobenzene	77	4.140	4.140	(0.867)	1378013	4.08187	4.08
36 Isophorone	82	4.343	4.348	(0.909)	2508716	4.08996	4.08
37 2-Nitrophenol	139	4.423	4.423	(0.926)	604372	4.30183	4.30
40 2,4-Dimethylphenol	122	4.445	4.445	(0.931)	993234	3.68336	3.68
41 Bis(2-chloroethoxy)methane	93	4.536	4.535	(0.950)	1572987	4.05709	4.05
43 2,4-Dichlorophenol	162	4.637	4.637	(0.971)	897260	4.20031	4.20
46 Naphthalene	128	4.792	4.798	(1.003)	3643318	4.21760	4.21
48 4-Chloroaniline	127	4.835	4.835	(1.012)	1417406	3.84830	3.84
51 Hexachlorobutadiene	225	4.915	4.915	(1.029)	419044	4.07600	4.07
57 Caprolactam	113	5.140	5.140	(1.076)	361541	4.18415	4.18
58 4-Chloro-3-Methylphenol	107	5.290	5.290	(1.107)	1074460	4.18576	4.18
61 2-Methylnaphthalene	141	5.450	5.450	(1.141)	1981032	4.26967	4.26
63 Hexachlorocyclopentadiene	237	5.611	5.611	(0.868)	442823	3.91210	3.91
66 2,4,6-Trichlorophenol	196	5.718	5.718	(0.885)	563352	4.15278	4.15
68 2,4,5-Trichlorophenol	196	5.750	5.750	(0.890)	593392	4.29192	4.29
73 1,1'-Biphenyl	154	5.899	5.899	(0.913)	2606601	4.14875	4.14
74 2-Chloronaphthalene	162	5.915	5.915	(0.916)	2512896	4.44407	4.44
77 2-Nitroaniline	65	6.012	6.012	(0.930)	949154	5.16509	5.16
80 Dimethylphthalate	163	6.194	6.194	(0.959)	2291410	4.25301	4.25
82 2,6-Dinitrotoluene	165	6.242	6.247	(0.966)	522964	4.49572	4.49
83 Acenaphthylene	152	6.322	6.322	(0.978)	3326631	4.19258	4.19
85 3-Nitroaniline	138	6.408	6.408	(0.992)	631825	4.25043	4.25
88 Acenaphthene	154	6.493	6.493	(1.005)	1988622	4.07669	4.07
89 2,4-Dinitrophenol	184	6.515	6.514	(1.008)	202661	3.65815	3.65(Q)
90 4-Nitrophenol	109	6.568	6.568	(1.017)	383324	4.50908	4.50
92 Dibenzofuran	168	6.659	6.659	(1.031)	2798842	4.23320	4.23
93 2,4-Dinitrotoluene	165	6.638	6.638	(1.027)	673766	4.52840	4.52
97 Diethylphthalate	149	6.884	6.884	(1.065)	2395927	4.23054	4.23
98 Fluorene	166	6.996	6.996	(1.083)	2285715	4.15865	4.15
99 4-Chlorophenyl phenyl ether	204	6.996	6.996	(1.083)	849463	4.04662	4.04
100 4-Nitroaniline	138	7.007	7.007	(1.084)	676587	4.53515	4.53
101 4,6-Dinitro-2-methylphenol	198	7.044	7.044	(0.890)	301387	4.29991	4.29
102 N-Nitrosodiphenylamine	169	7.108	7.108	(0.898)	1908180	4.28364	4.28
112 4-Bromophenyl-phenylether	248	7.477	7.477	(0.945)	464870	4.05855	4.05
113 Hexachlorobenzene	284	7.547	7.547	(0.953)	484063	4.15325	4.15
118 Atrazine	200	7.632	7.632	(0.964)	521401	4.26266	4.26
121 Pentachlorophenol	266	7.739	7.739	(0.978)	232900	3.64123	3.64
128 Phenanthrene	178	7.943	7.943	(1.003)	3128641	4.26776	4.26
130 Anthracene	178	7.991	7.991	(1.009)	3181892	4.40357	4.40
134 Carbazole	167	8.146	8.146	(1.029)	3084965	4.31434	4.31
140 Di-n-butylphthalate	149	8.499	8.499	(1.074)	4225462	4.64403	4.64
149 Fluoranthene	202	9.119	9.119	(1.152)	2933350	4.37245	4.37
155 Pyrene	202	9.349	9.355	(0.867)	3192459	4.52034	4.52
173 Butylbenzylphthalate	149	10.077	10.082	(0.934)	1832934	4.81607	4.81
180 3,3'-Dichlorobenzidine	252	10.751	10.751	(0.997)	821405	4.24315	4.24
181 Benzo(a)Anthracene	228	10.777	10.783	(0.999)	2675343	4.46219	4.46
183 Chrysene	228	10.826	10.831	(1.003)	2571927	4.40636	4.40
184 bis(2-ethylhexyl)phthalate	149	10.842	10.842	(1.005)	2750544	5.02647	5.02
190 Di-n-octylphthalate	149	11.778	11.783	(0.914)	4336103	4.88470	4.88
192 Benzo(b)fluoranthene	252	12.318	12.323	(0.956)	2667947	4.66979	4.66
195 Benzo(k)fluoranthene	252	12.361	12.361	(0.959)	2927065	4.99049	4.99
197 Benzo(a)pyrene	252	12.805	12.810	(0.993)	2465376	4.62991	4.62
209 Indeno(1,2,3-cd)pyrene	276	14.473	14.473	(1.123)	2296401	4.44052	4.44(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
210 Dibenzo(a,h)anthracene	278	14.505	14.511	(1.125)	2284094	4.58272	4.58
212 Benzo(g,h,i)perylene	276	14.864	14.869	(1.153)	2341874	4.50027	4.50

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\005.D
Date : 18-SEP-2010 13:35
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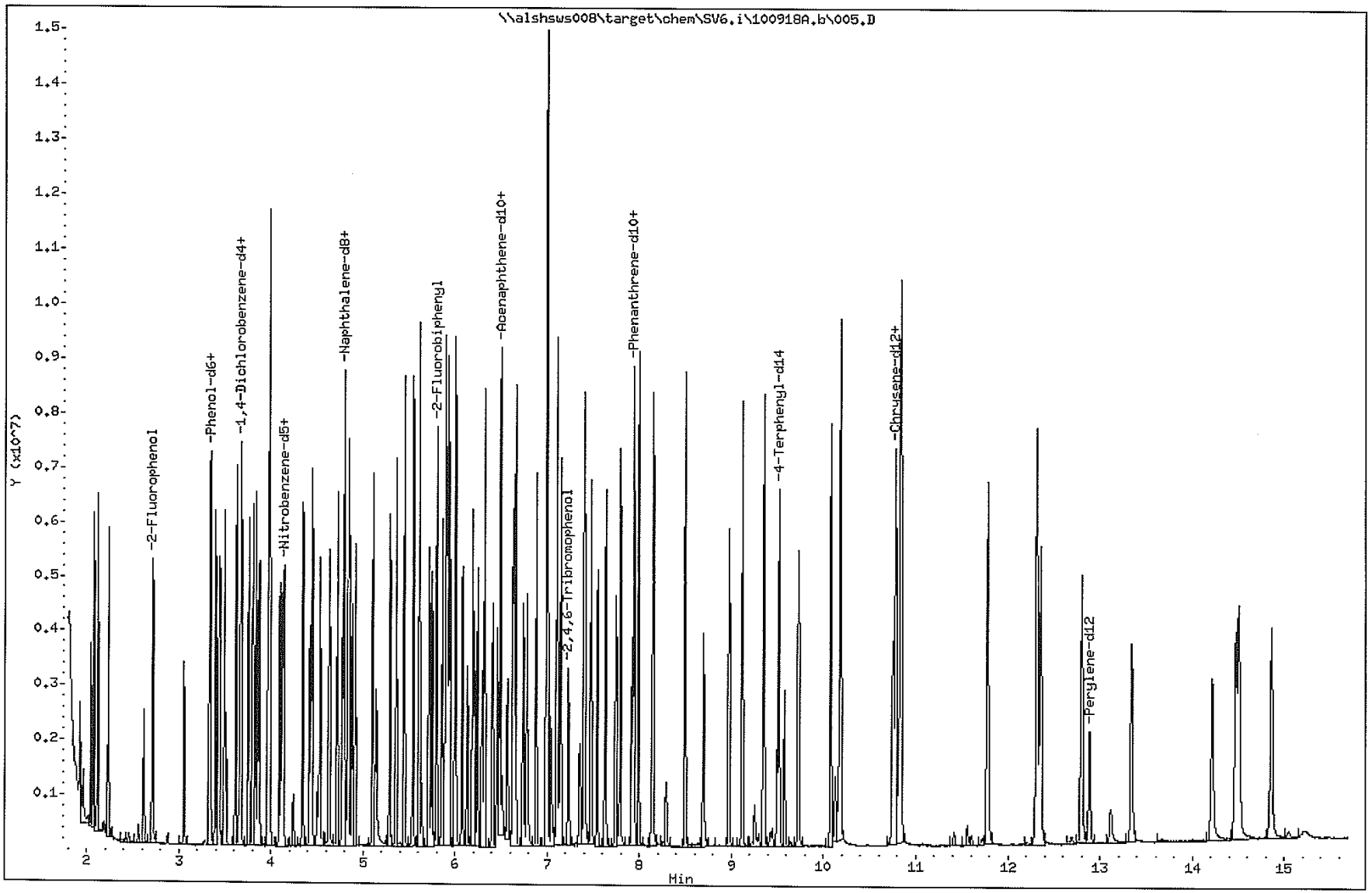
Sample Info: SLCSDW1-100918;SLCSDW1-100918;3;;LCSD
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\018.D
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Operator : LG Inst ID: SV6.i
Smp Info : 1009543-02E;1009543-02E
Misc Info : 1009543;1;0;1
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Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

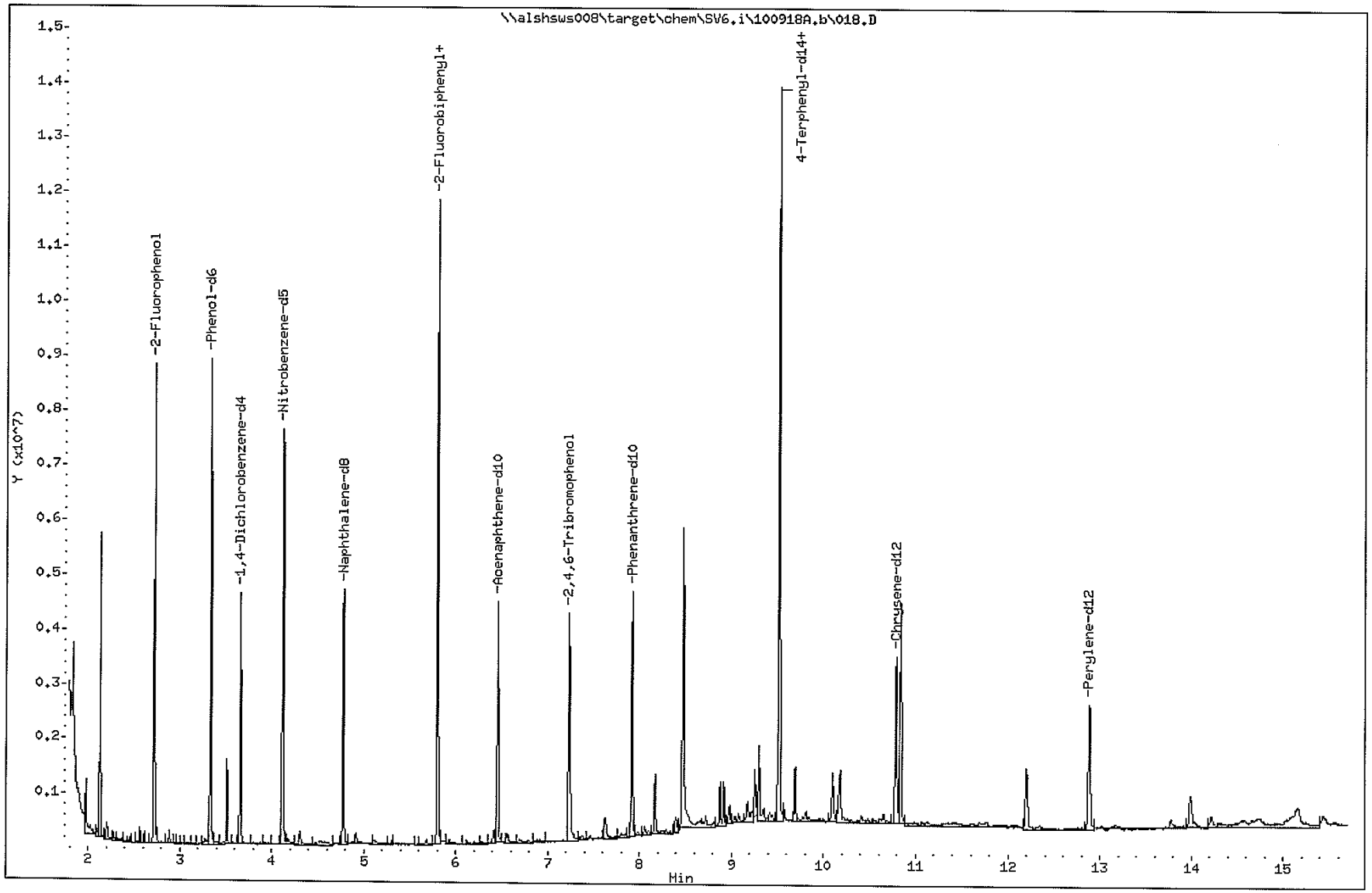
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	531066	2.00000	
$ 9 2-Fluorophenol	112	2.722	2.712	(0.743)	1925044	4.70149	4.70
$ 13 Phenol-d6	99	3.337	3.332	(0.911)	2569064	4.77246	4.77
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	2022900	2.00000	
$ 33 Nitrobenzene-d5	82	4.118	4.124	(0.862)	2230395	5.06319	5.06
* 86 Acenaphthene-d10	164	6.456	6.461	(1.000)	1000428	2.00000	
$ 69 2-Fluorobiphenyl	172	5.798	5.803	(0.898)	3456692	5.00516	5.00
* 126 Phenanthrene-d10	188	7.916	7.921	(1.000)	1616989	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.231	7.237	(1.120)	352206	4.81711	4.81
* 182 Chrysene-d12	240	10.788	10.793	(1.000)	1333580	2.00000	
$ 158 4-Terphenyl-d14	244	9.515	9.520	(0.882)	3672469	6.86661	6.86
* 198 Perylene-d12	264	12.890	12.895	(1.000)	1197395	2.00000	
184 bis(2-ethylhexyl)phthalate	149	10.836	10.842	(1.004)	1375967	1.94218	1.94

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\018.D
Date : 18-SEP-2010 17:54
Client ID: 1009543-02E
Sample Info: 1009543-02E;1009543-02E
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



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Date : 18-SEP-2010 17:54

Client ID: 1009543-02E

Instrument: SV6.i

Sample Info: 1009543-02E;1009543-02E

Purge Volume: 1000.0

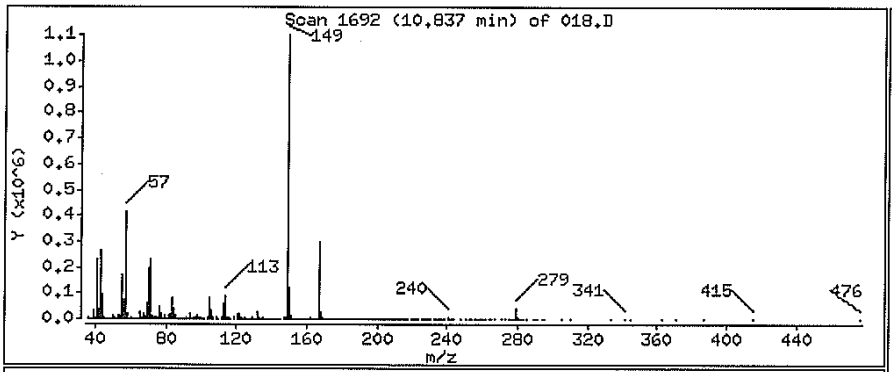
Operator: LG

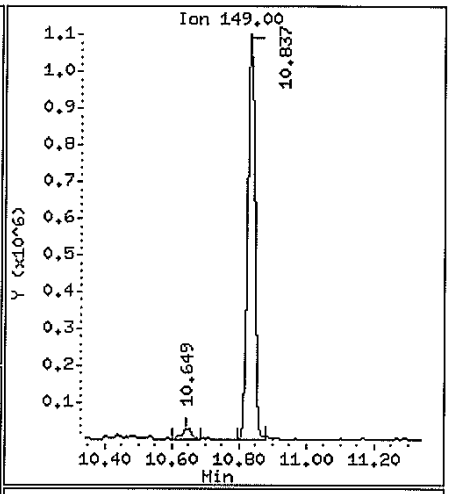
Column phase: RTX-5SIL MS

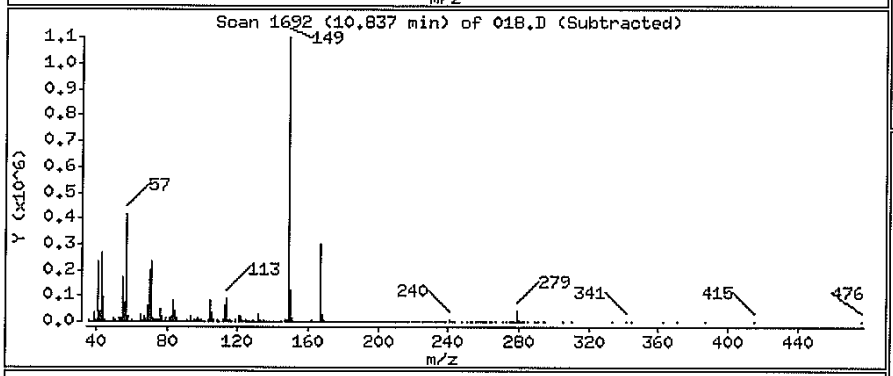
Column diameter: 0.28

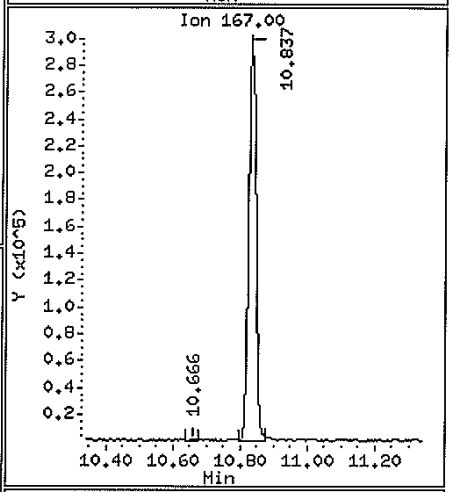
184 bis(2-ethylhexyl)phthalate

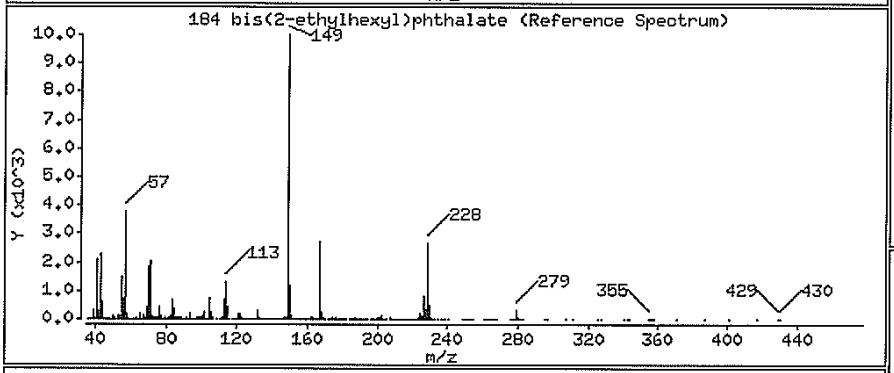
Concentration: 1.94 ug/L

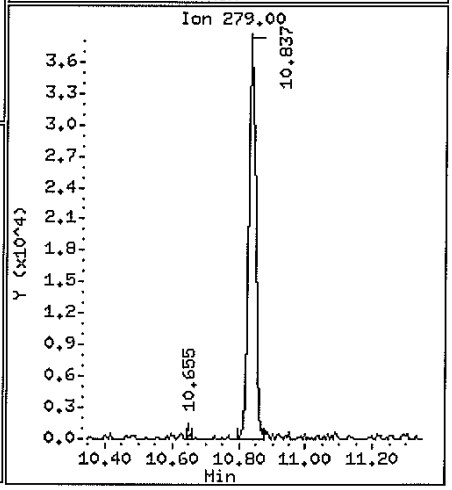


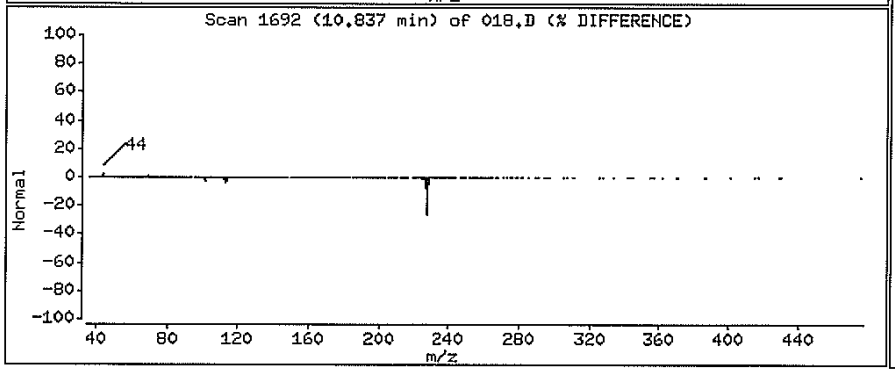












ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\019.D
Lab Smp Id: 1009543-04E Client Smp ID: 1009543-04E
Inj Date : 18-SEP-2010 18:14 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : 1009543-04E;1009543-04E
Misc Info : 1009543;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

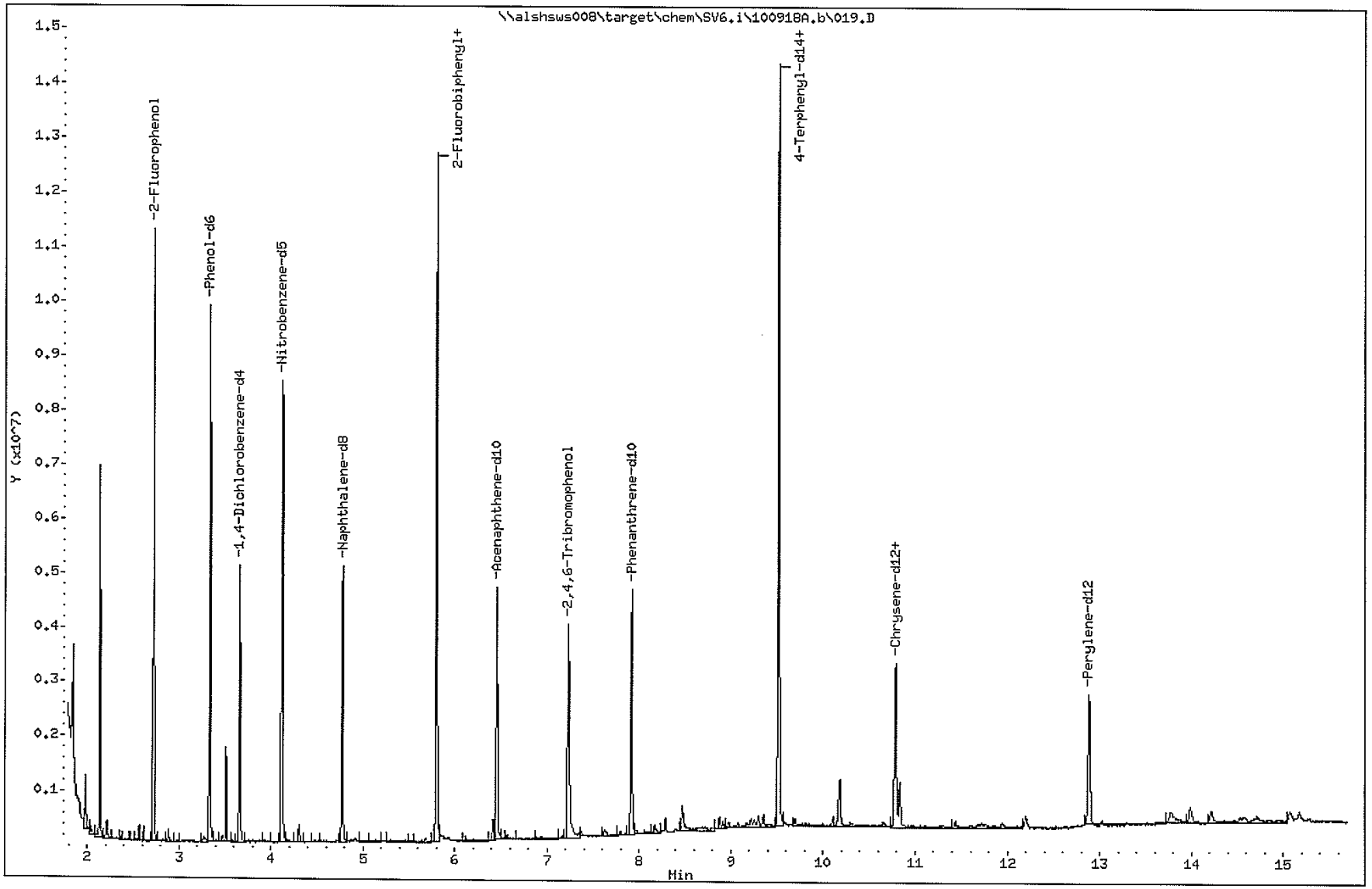
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	568861	2.00000	
$ 9 2-Fluorophenol	112	2.722	2.712	(0.743)	2171463	4.95096	4.95
$ 13 Phenol-d6	99	3.337	3.332	(0.911)	2853938	4.94942	4.94
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	2225892	2.00000	
$ 33 Nitrobenzene-d5	82	4.118	4.124	(0.862)	2513028	5.18453	5.18
* 86 Acenaphthene-d10	164	6.456	6.461	(1.000)	1065361	2.00000	
$ 69 2-Fluorobiphenyl	172	5.798	5.803	(0.898)	3887383	5.28571	5.28
* 126 Phenanthrene-d10	188	7.916	7.921	(1.000)	1783833	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.231	7.237	(1.120)	399597	5.13217	5.13
* 182 Chrysene-d12	240	10.788	10.793	(1.000)	1435739	2.00000	
$ 158 4-Terphenyl-d14	244	9.515	9.520	(0.882)	3897431	6.76871	6.76
* 198 Perylene-d12	264	12.885	12.895	(1.000)	1326386	2.00000	
184 bis(2-ethylhexyl)phthalate	149	10.836	10.842	(1.004)	286485	0.37560	0.37

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\019.D
Date : 18-SEP-2010 18:14
Client ID: 1009543-04E
Sample Info: 1009543-04E;1009543-04E
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\alshsws008\target\chem\SV6.i\100918A.b\019.D

Date : 18-SEP-2010 18:14

Client ID: 1009543-04E

Instrument: SV6.i

Sample Info: 1009543-04E;1009543-04E

Purge Volume: 1000.0

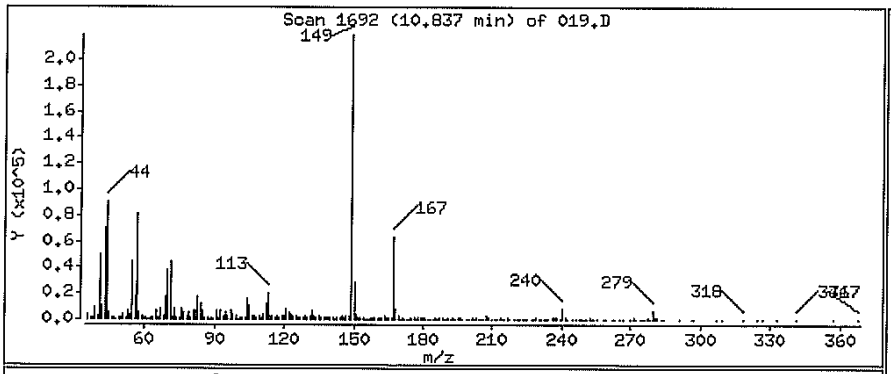
Operator: LG

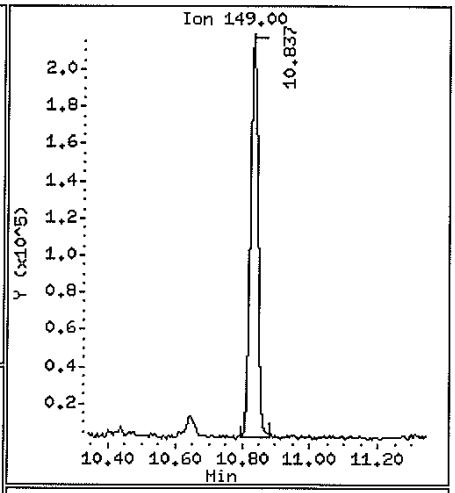
Column phase: RTX-5SIL MS

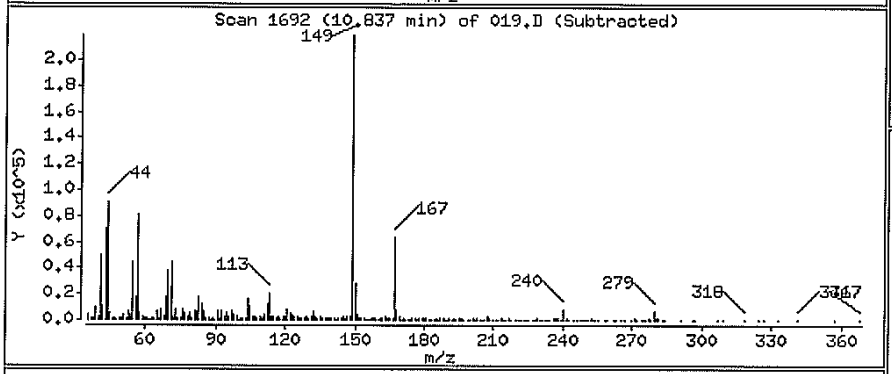
Column diameter: 0.28

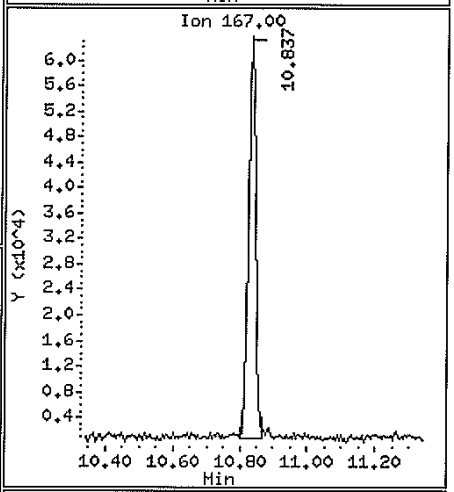
184 bis(2-ethylhexyl)phthalate

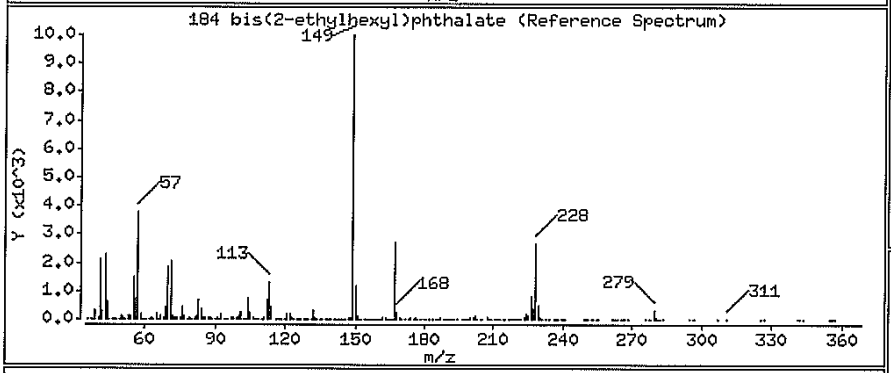
Concentration: 0.37 ug/L

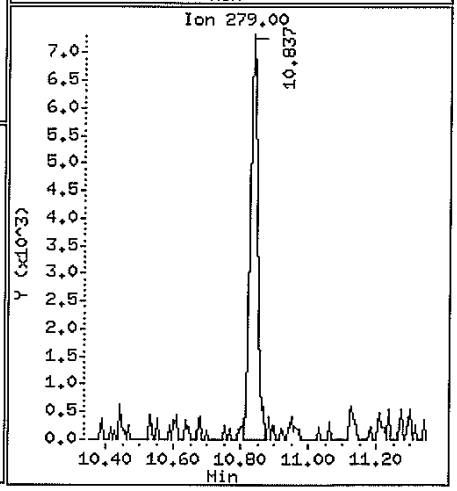


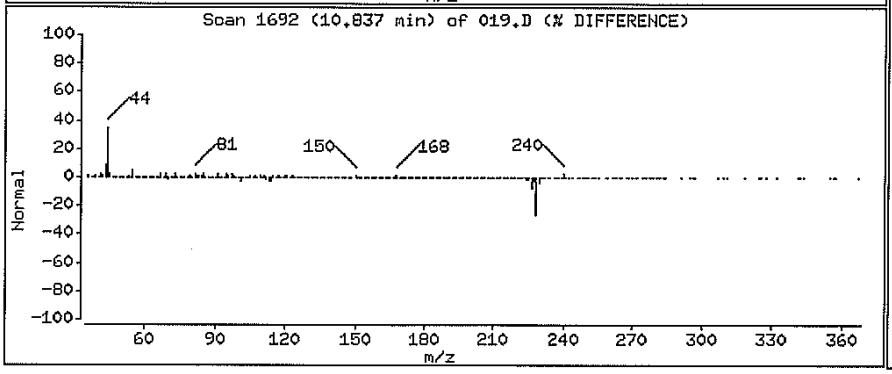












ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\020.D
Lab Smp Id: 1009543-05E Client Smp ID: 1009543-05E
Inj Date : 18-SEP-2010 18:33 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : 1009543-05E;1009543-05E
Misc Info : 1009543;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

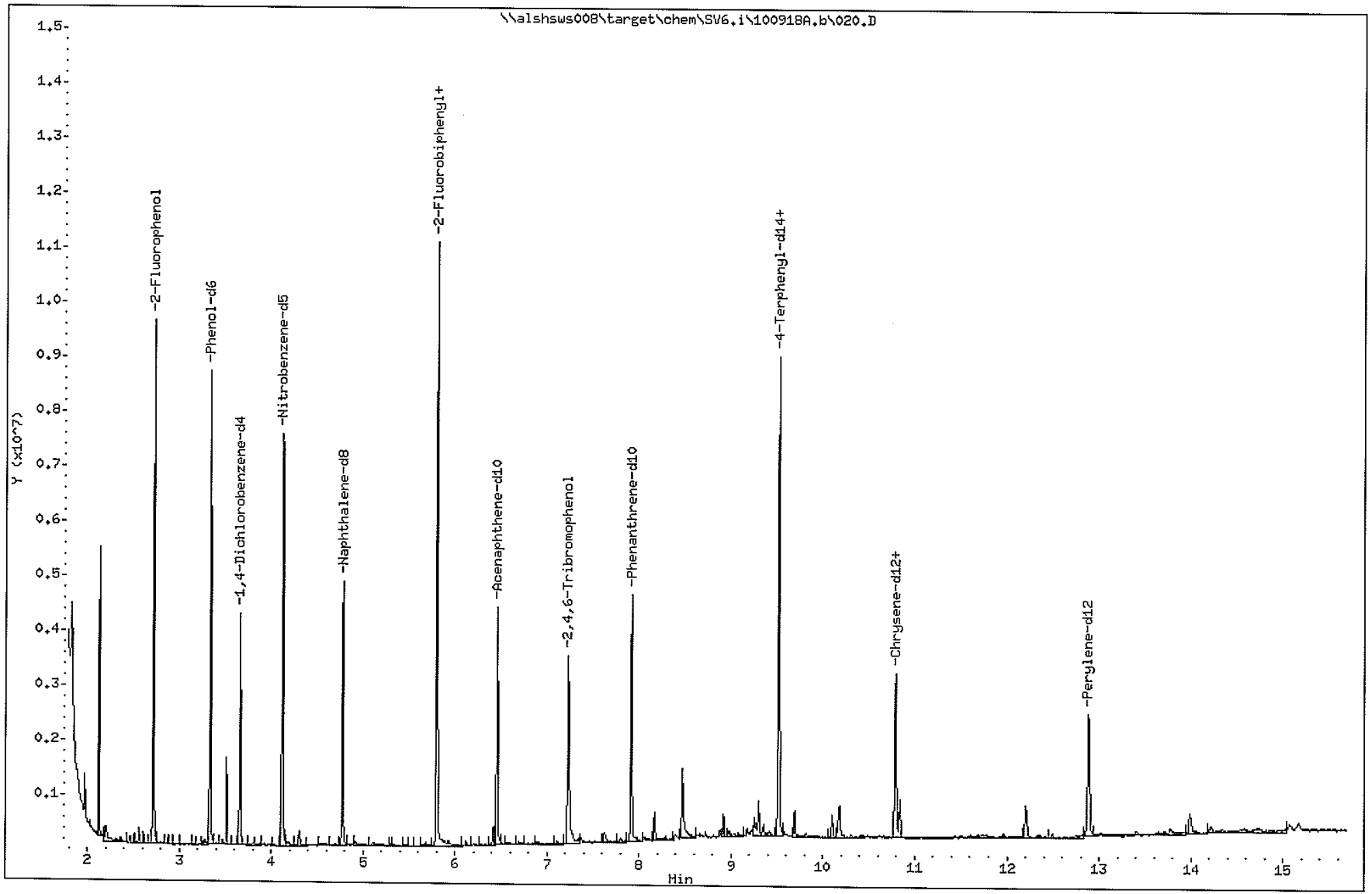
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	520623	2.00000	
$ 9 2-Fluorophenol	112	2.717	2.712	(0.742)	1893244	4.71657	4.71
$ 13 Phenol-d6	99	3.338	3.332	(0.911)	2522476	4.77991	4.77
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	2008025	2.00000	
$ 33 Nitrobenzene-d5	82	4.118	4.124	(0.862)	2174600	4.97310	4.97
* 86 Acenaphthene-d10	164	6.456	6.461	(1.000)	948006	2.00000	
$ 69 2-Fluorobiphenyl	172	5.798	5.803	(0.898)	3205806	4.89857	4.89
* 126 Phenanthrene-d10	188	7.916	7.921	(1.000)	1610373	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.231	7.237	(1.120)	303163	4.37563	4.37
* 182 Chrysene-d12	240	10.788	10.793	(1.000)	1295310	2.00000	
$ 158 4-Terphenyl-d14	244	9.515	9.520	(0.882)	2254283	4.33948	4.33
* 198 Perylene-d12	264	12.885	12.895	(1.000)	1180259	2.00000	
184 bis(2-ethylhexyl)phthalate	149	10.836	10.842	(1.004)	220409	0.32030	0.32

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\020.D
Date : 18-SEP-2010 18:33
Client ID: 1009543-05E
Sample Info: 1009543-05E;1009543-05E
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\alshsws008\target\chem\SV6.i\100918A.b\020.D

Date : 18-SEP-2010 18:33

Client ID: 1009543-05E

Instrument: SV6.i

Sample Info: 1009543-05E;1009543-05E

Purge Volume: 1000.0

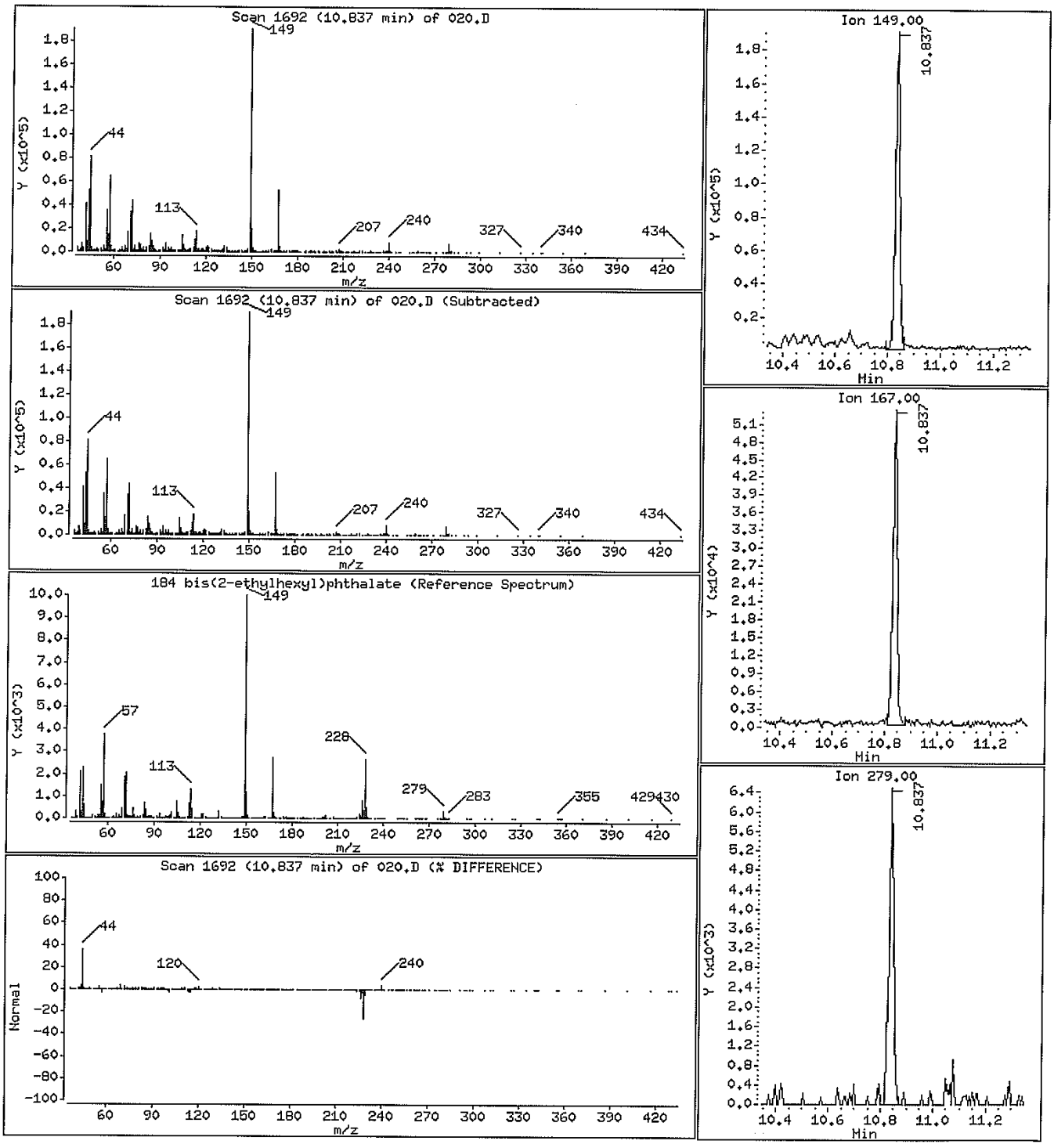
Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

184 bis(2-ethylhexyl)phthalate

Concentration: 0.32 ug/L



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\021.D
Lab Smp Id: 1009543-07E Client Smp ID: 1009543-07E
Inj Date : 18-SEP-2010 18:53 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : 1009543-07E;1009543-07E
Misc Info : 1009543;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

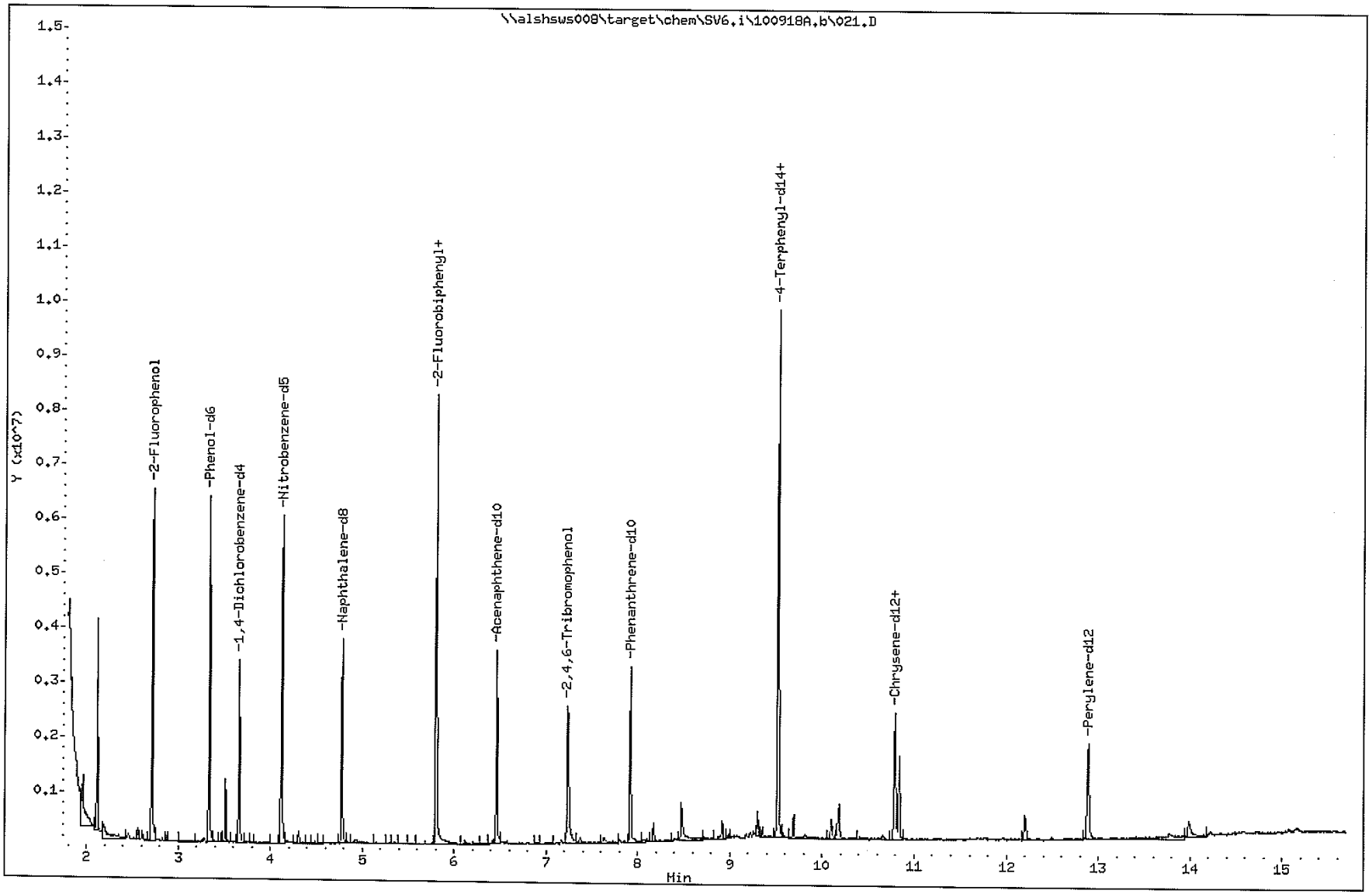
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	389018	2.00000	
$ 9 2-Fluorophenol	112	2.717	2.712	(0.742)	1426209	4.75507	4.75
$ 13 Phenol-d6	99	3.337	3.332	(0.911)	1856484	4.70801	4.70
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	1457765	2.00000	
$ 33 Nitrobenzene-d5	82	4.124	4.124	(0.863)	1619089	5.10035	5.10
* 86 Acenaphthene-d10	164	6.461	6.461	(1.000)	711506	2.00000	
$ 69 2-Fluorobiphenyl	172	5.803	5.803	(0.898)	2348806	4.78202	4.78
* 126 Phenanthrene-d10	188	7.916	7.921	(1.000)	1189791	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.236	7.237	(1.120)	228741	4.39887	4.39
* 182 Chrysene-d12	240	10.788	10.793	(1.000)	959038	2.00000	
$ 158 4-Terphenyl-d14	244	9.520	9.520	(0.883)	2442032	6.34919	6.34
* 198 Perylene-d12	264	12.890	12.895	(1.000)	867651	2.00000	
184 bis(2-ethylhexyl)phthalate	149	10.836	10.842	(1.004)	455146	0.89334	0.89

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\021.D
Date : 18-SEP-2010 18:53
Client ID: 1009543-07E
Sample Info: 1009543-07E;1009543-07E
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\alshsws008\target\chem\SV6.i\100918A.b\021.D

Date : 18-SEP-2010 18:53

Client ID: 1009543-07E

Instrument: SV6.i

Sample Info: 1009543-07E;1009543-07E

Purge Volume: 1000.0

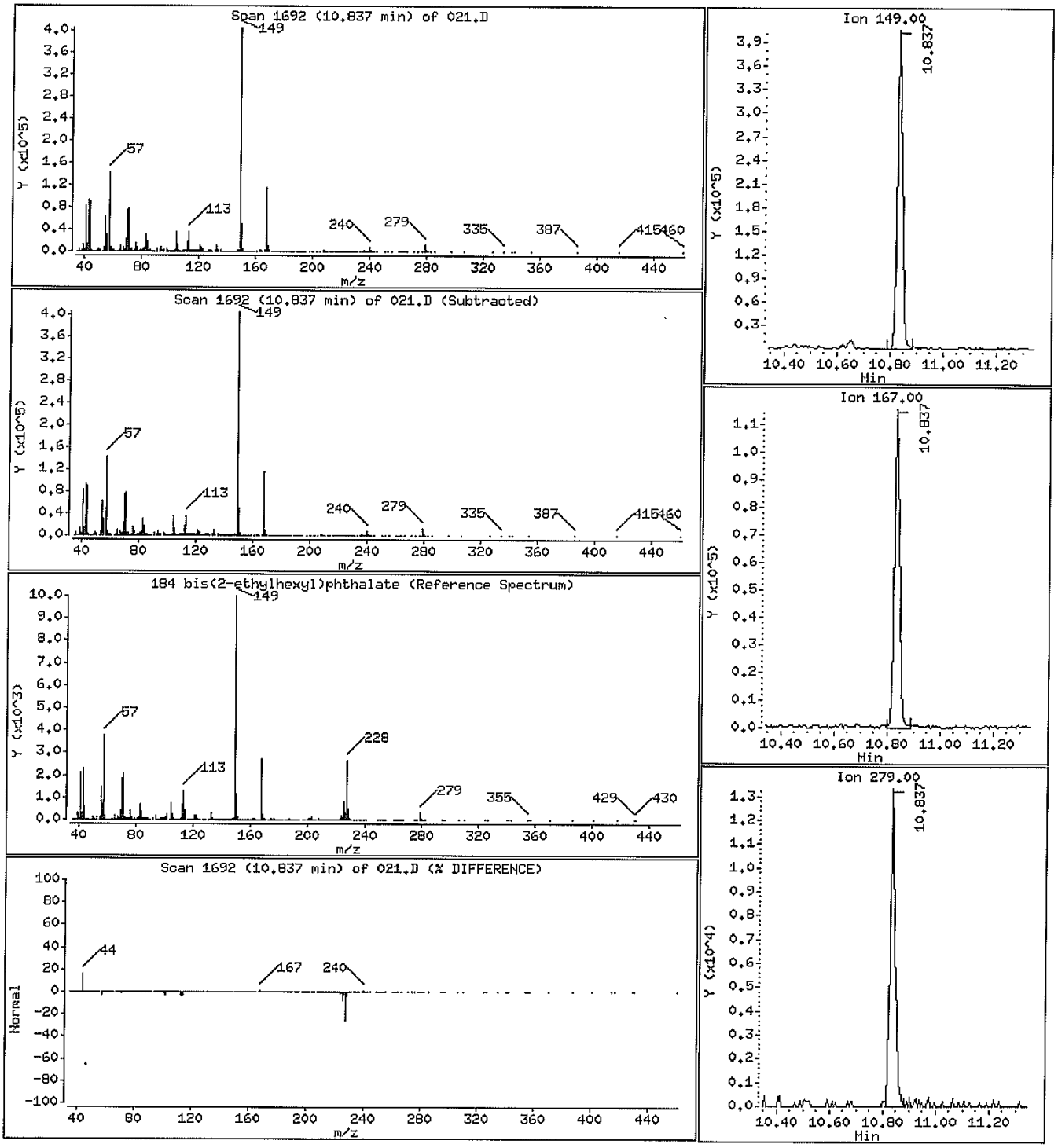
Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

184 bis(2-ethylhexyl)phthalate

Concentration: 0.89 ug/L



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\022.D
Lab Smp Id: 1009543-08E Client Smp ID: 1009543-08E
Inj Date : 18-SEP-2010 19:13 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : 1009543-08E;1009543-08E
Misc Info : 1009543;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

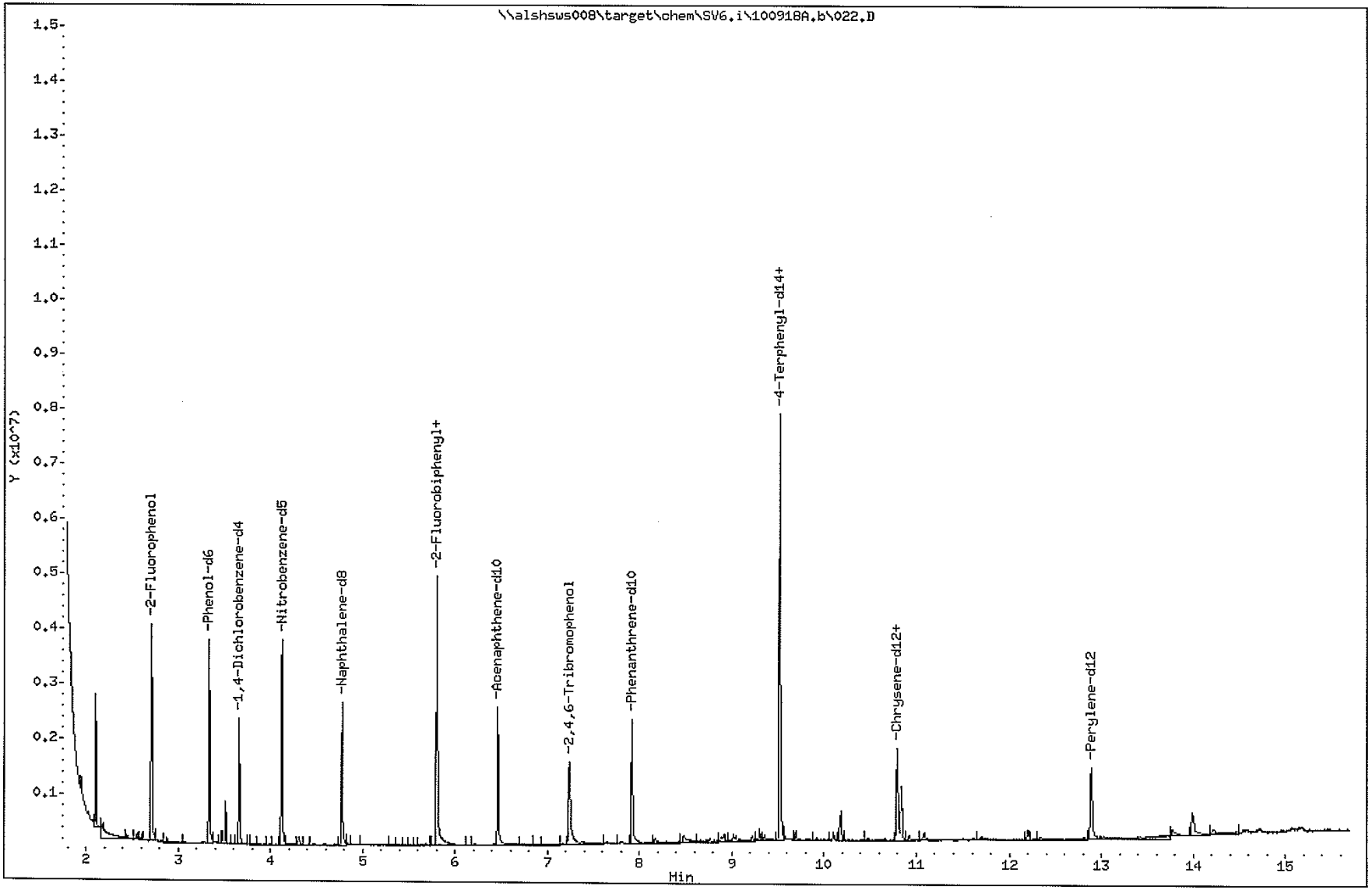
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	292429	2.00000	
$ 9 2-Fluorophenol	112	2.712	2.712	(0.740)	875411	3.88271	3.88
$ 13 Phenol-d6	99	3.337	3.332	(0.911)	1155711	3.89893	3.89
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	1047733	2.00000	
$ 33 Nitrobenzene-d5	82	4.124	4.124	(0.863)	1025472	4.49459	4.49
* 86 Acenaphthene-d10	164	6.461	6.461	(1.000)	547748	2.00000	
$ 69 2-Fluorobiphenyl	172	5.803	5.803	(0.898)	1595588	4.21971	4.21(M)
* 126 Phenanthrene-d10	188	7.921	7.921	(1.000)	905509	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.237	7.237	(1.120)	158937	3.97027	3.97
* 182 Chrysene-d12	240	10.793	10.793	(1.000)	713954	2.00000	
$ 158 4-Terphenyl-d14	244	9.520	9.520	(0.882)	1962119	6.85264	6.85
* 198 Perylene-d12	264	12.890	12.895	(1.000)	651352	2.00000	
184 bis(2-ethylhexyl)phthalate	149	10.836	10.842	(1.004)	293838	0.77471	0.77

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\022.D
Date : 18-SEP-2010 19:13
Client ID: 1009543-08E
Instrument: SV6.i
Sample Info: 1009543-08E;1009543-08E
Purge Volume: 1000.0
Operator: LG
Column phase: RTX-5SIL MS
Column diameter: 0.28



Data File: \\alshsws008\target\chem\SV6.i\100918A.b\022.D

Date : 18-SEP-2010 19:13

Client ID: 1009543-08E

Instrument: SV6.i

Sample Info: 1009543-08E;1009543-08E

Purge Volume: 1000.0

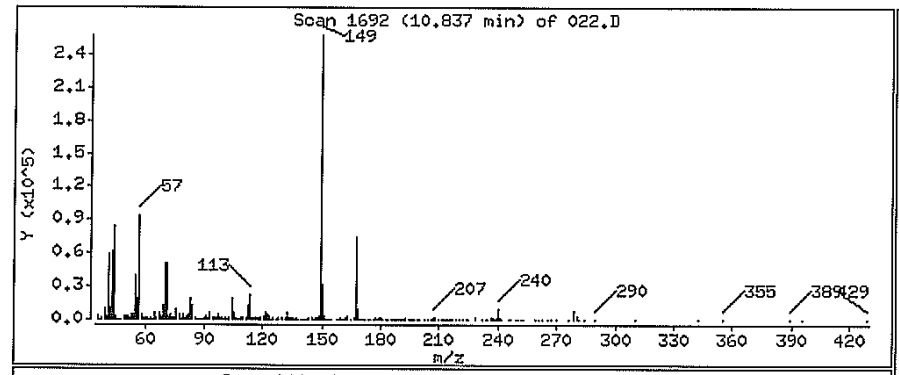
Operator: LG

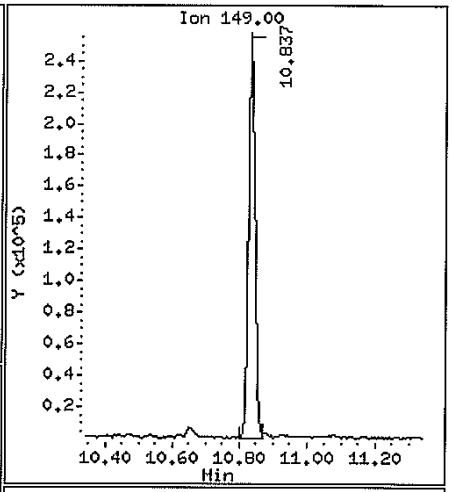
Column phase: RTX-5SIL MS

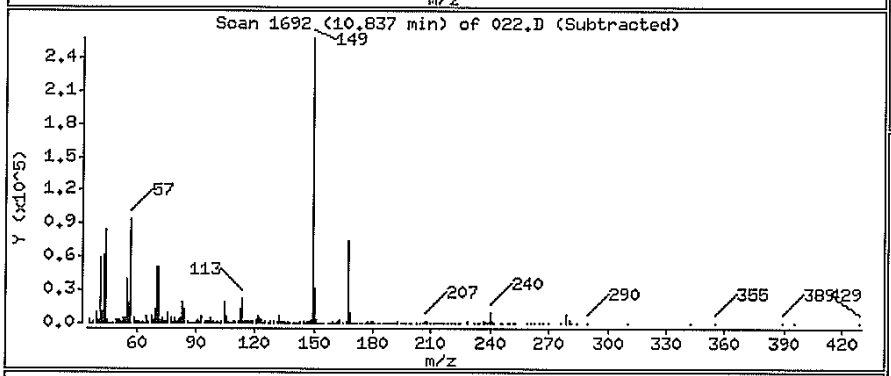
Column diameter: 0.28

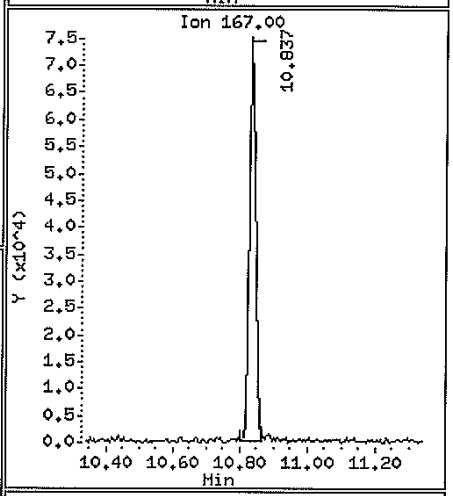
184 bis(2-ethylhexyl)phthalate

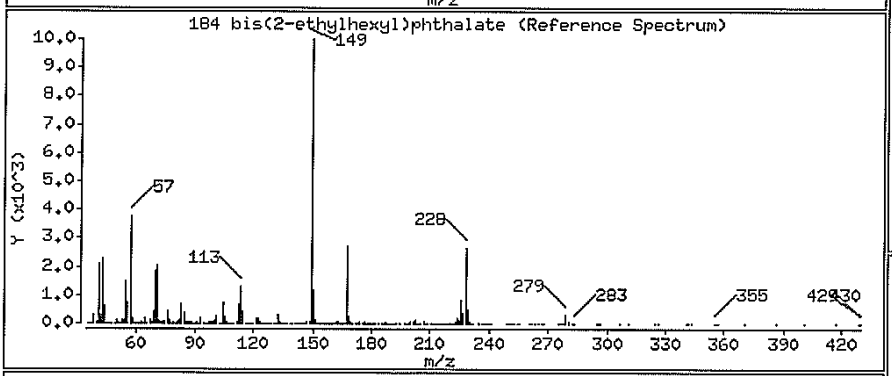
Concentration: 0.77 ug/L

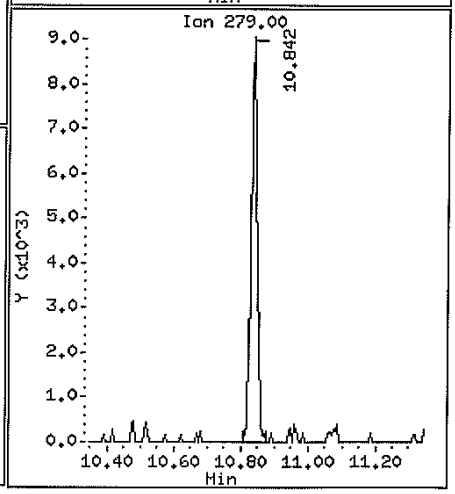


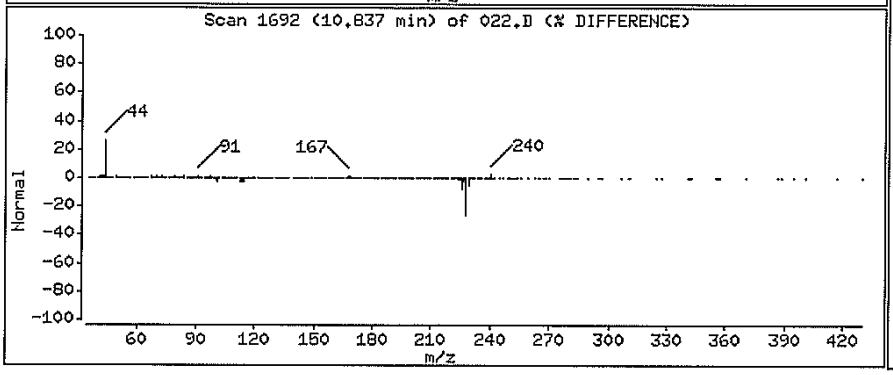












ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\023.D
Lab Smp Id: 1009543-10E Client Smp ID: 1009543-10E
Inj Date : 18-SEP-2010 19:32 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : 1009543-10E;1009543-10E
Misc Info : 1009543;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

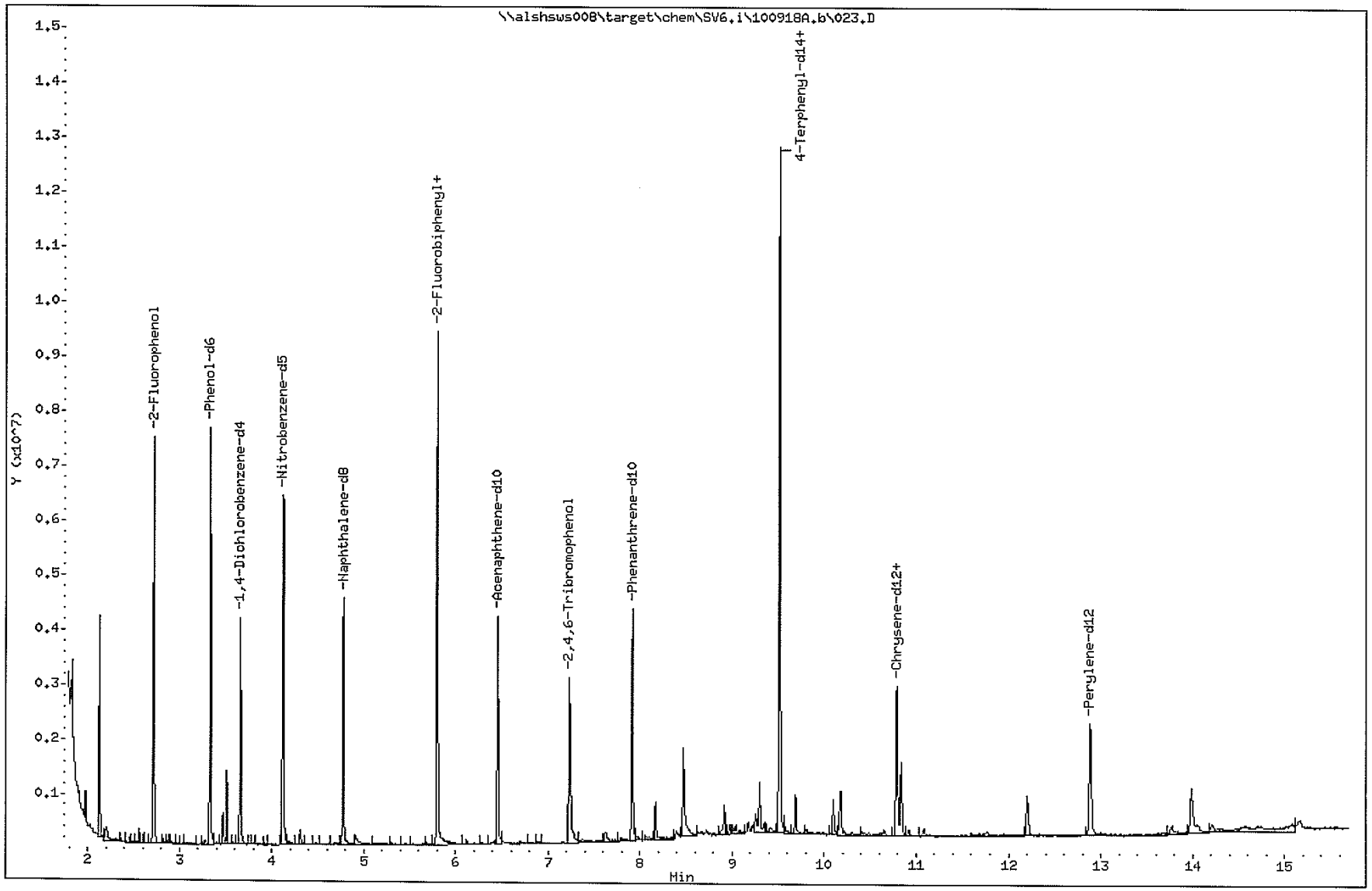
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	492618	2.00000	
$ 9 2-Fluorophenol	112	2.722	2.712	(0.743)	1696512	4.46673	4.46
$ 13 Phenol-d6	99	3.338	3.332	(0.911)	2225064	4.45603	4.45
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	1871419	2.00000	
$ 33 Nitrobenzene-d5	82	4.118	4.124	(0.862)	1928968	4.73337	4.73
* 86 Acenaphthene-d10	164	6.456	6.461	(1.000)	893753	2.00000	
$ 69 2-Fluorobiphenyl	172	5.798	5.803	(0.898)	2840206	4.60336	4.60
* 126 Phenanthrene-d10	188	7.916	7.921	(1.000)	1532870	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.231	7.237	(1.120)	274329	4.19981	4.19
* 182 Chrysene-d12	240	10.788	10.793	(1.000)	1235351	2.00000	
$ 158 4-Terphenyl-d14	244	9.515	9.520	(0.882)	3253709	6.56737	6.56
* 198 Perylene-d12	264	12.885	12.895	(1.000)	1107134	2.00000	
184 bis(2-ethylhexyl)phthalate	149	10.836	10.842	(1.004)	464545	0.70784	0.70

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\023.D
Date : 18-SEP-2010 19:32
Client ID: 1009543-10E
Sample Info: 1009543-10E;1009543-10E
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\alshsws008\target\ohem\SV6.i\100918A.b\023.D

Date : 18-SEP-2010 19:32

Client ID: 1009543-10E

Instrument: SV6.i

Sample Info: 1009543-10E;1009543-10E

Purge Volume: 1000.0

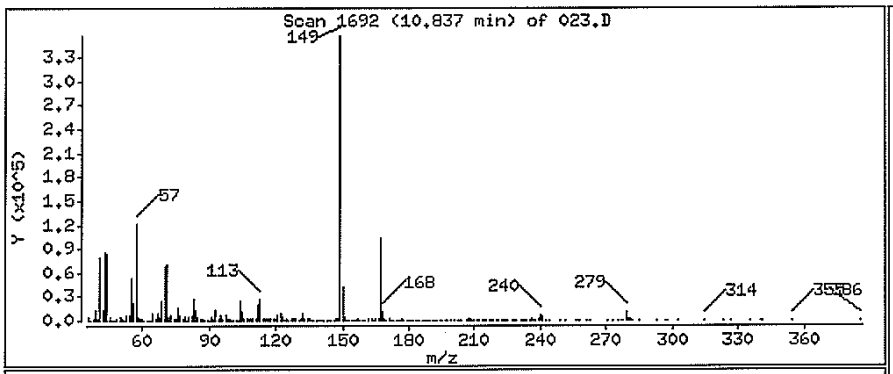
Operator: LG

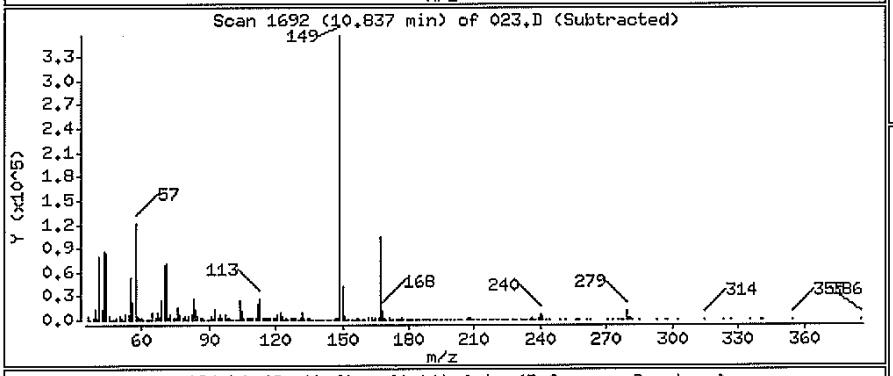
Column phase: RTX-5SIL MS

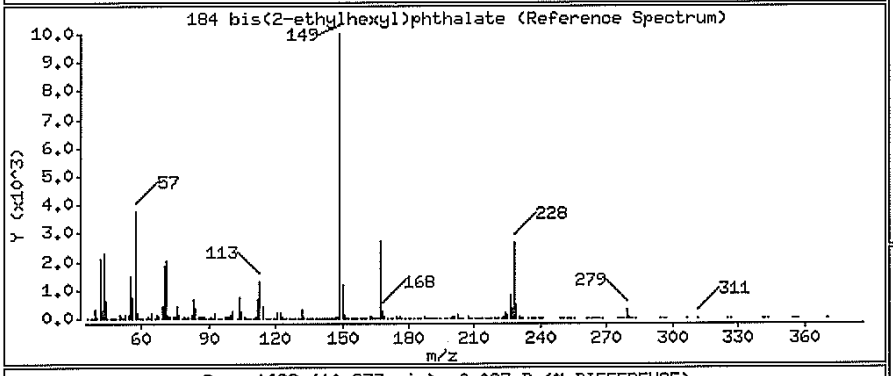
Column diameter: 0.28

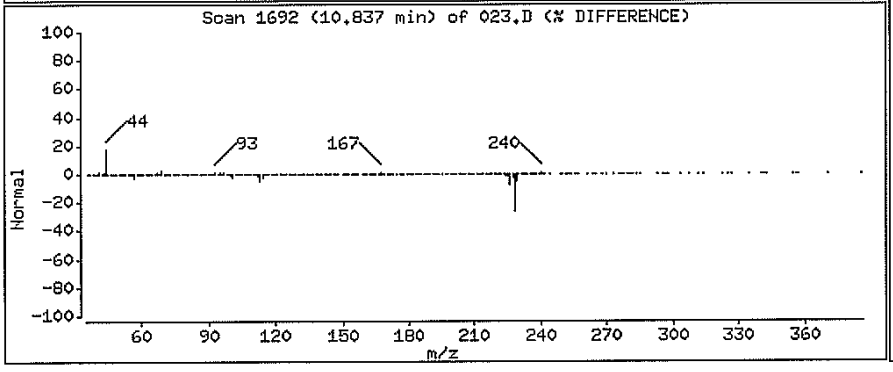
184 bis(2-ethylhexyl)phthalate

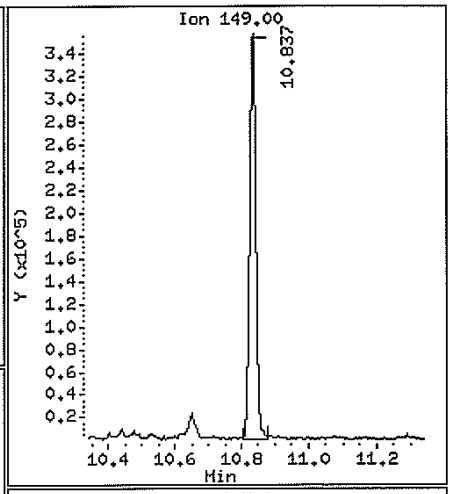
Concentration: 0.70 ug/L

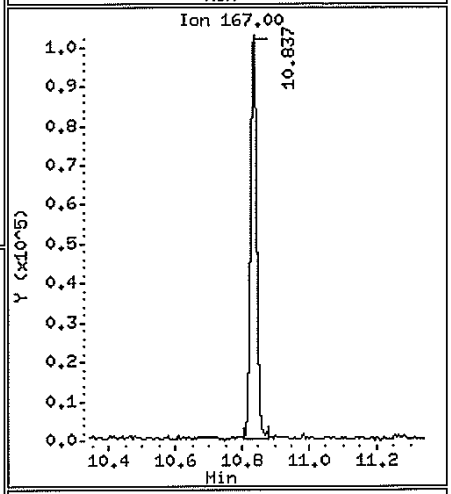


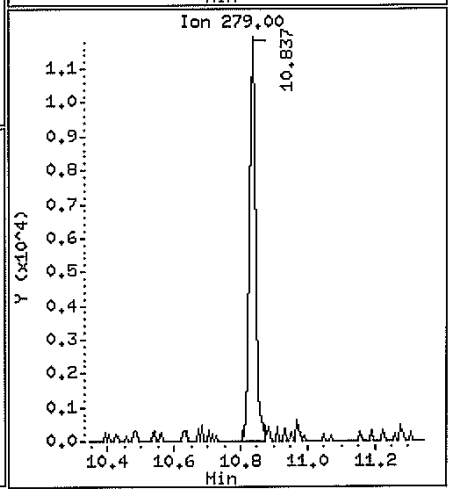












ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

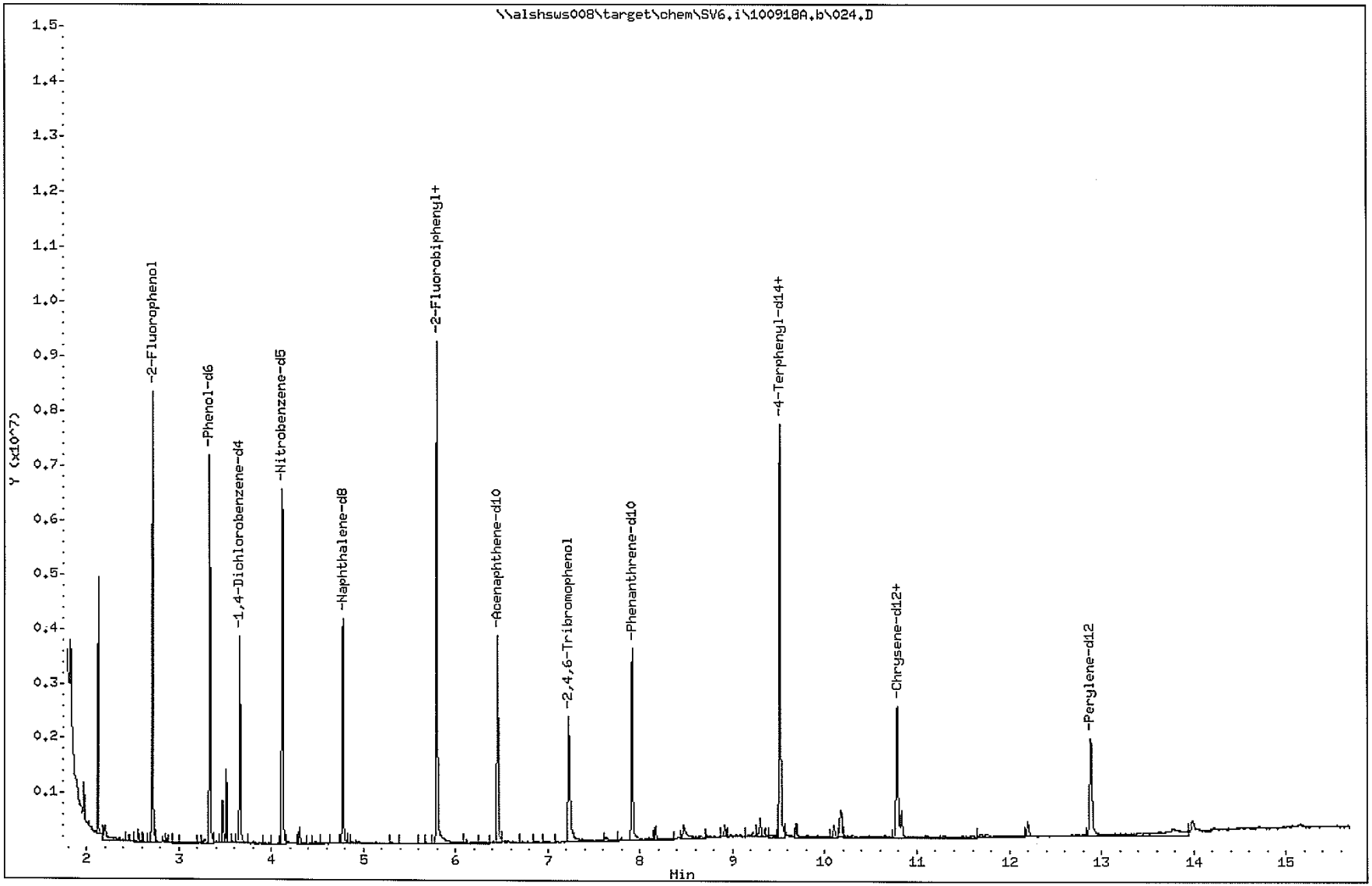
Data file : \\alshsws008\target\chem\SV6.i\100918A.b\024.D
Lab Smp Id: 1009543-11E Client Smp ID: 1009543-11E
Inj Date : 18-SEP-2010 19:52 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : 1009543-11E;1009543-11E
Misc Info : 1009543;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	457146	2.00000	
$ 9 2-Fluorophenol	112	2.717	2.712	(0.742)	1650125	4.68172	4.68
$ 13 Phenol-d6	99	3.337	3.332	(0.911)	2166964	4.67641	4.67
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	1786766	2.00000	
$ 33 Nitrobenzene-d5	82	4.118	4.124	(0.862)	1879298	4.82997	4.82
* 86 Acenaphthene-d10	164	6.456	6.461	(1.000)	837698	2.00000	
$ 69 2-Fluorobiphenyl	172	5.798	5.803	(0.898)	2697531	4.66468	4.66
* 126 Phenanthrene-d10	188	7.916	7.921	(1.000)	1449590	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.231	7.237	(1.120)	229725	3.75229	3.75
* 182 Chrysene-d12	240	10.788	10.793	(1.000)	1150195	2.00000	
$ 158 4-Terphenyl-d14	244	9.515	9.520	(0.882)	2083110	4.51589	4.51
* 198 Perylene-d12	264	12.885	12.895	(1.000)	1034220	2.00000	
184 bis(2-ethylhexyl)phthalate	149	10.831	10.842	(1.004)	145381	0.23792	0.23

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\024.D
Date : 18-SEP-2010 19:52
Client ID: 1009543-11E
Instrument: SV6.i
Sample Info: 1009543-11E;1009543-11E
Purge Volume: 1000.0
Operator: LG
Column phase: RTX-5SIL MS
Column diameter: 0.28



Data File: \\alshsws008\target\chem\SV6.i\100918A.b\024.D

Date : 18-SEP-2010 19:52

Client ID: 1009543-11E

Instrument: SV6.i

Sample Info: 1009543-11E;1009543-11E

Purge Volume: 1000.0

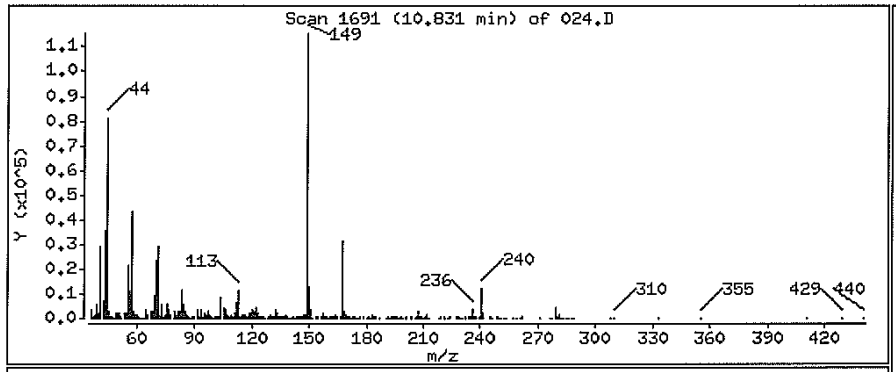
Operator: LC

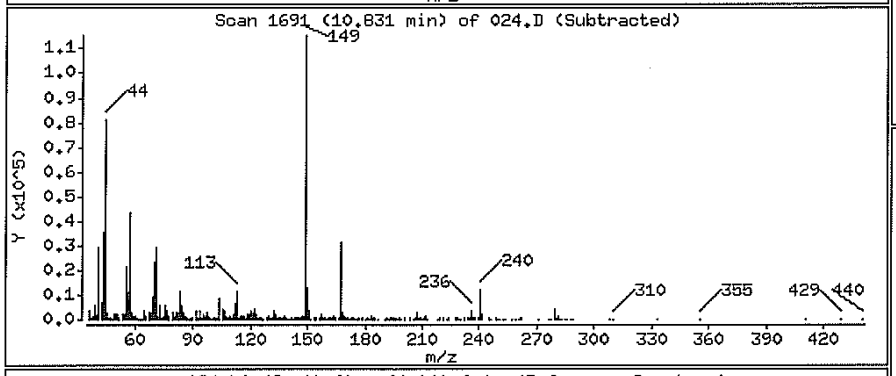
Column phase: RTX-5SIL MS

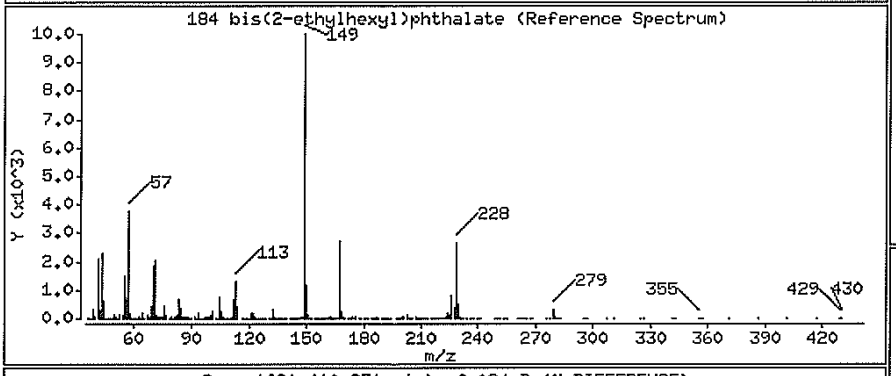
Column diameter: 0.28

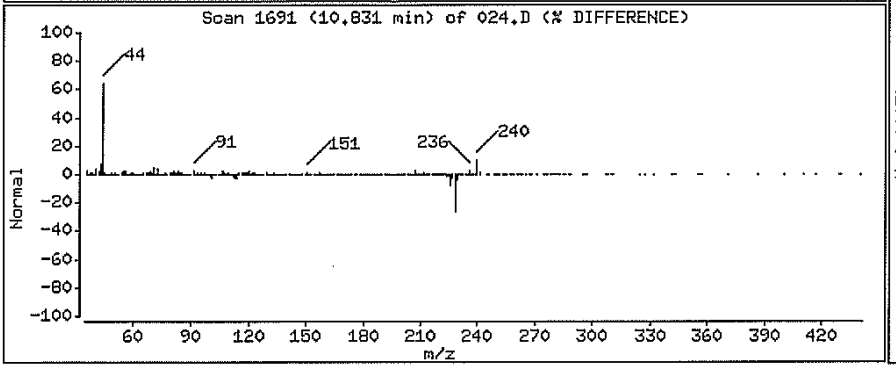
184 bis(2-ethylhexyl)phthalate

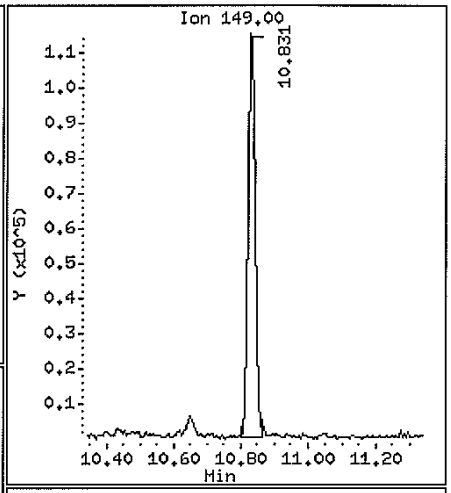
Concentration: 0.23 ug/L

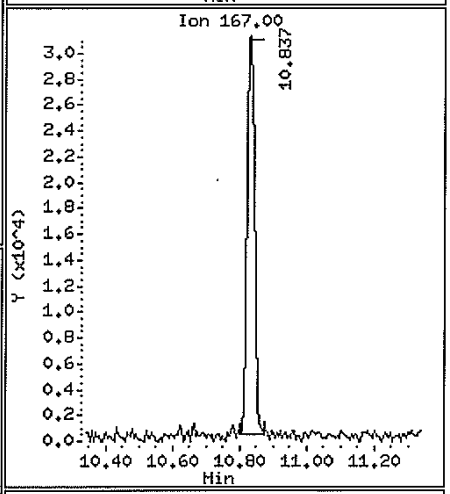


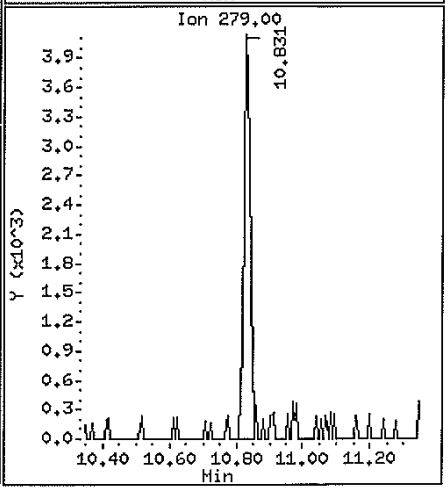












ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\025.D
Lab Smp Id: 1009543-13E Client Smp ID: 1009543-13E
Inj Date : 18-SEP-2010 20:11 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : 1009543-13E;1009543-13E
Misc Info : 1009543;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

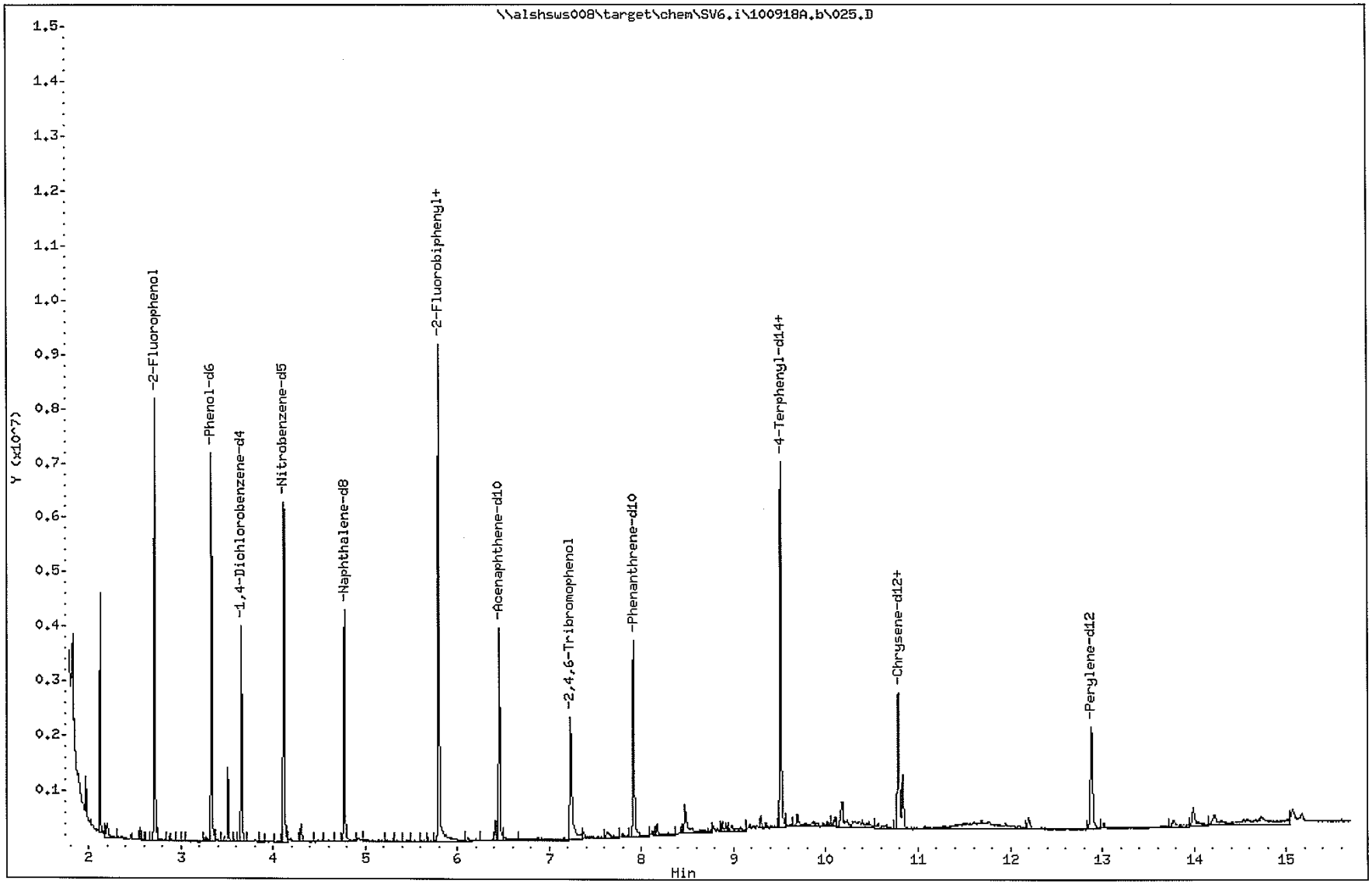
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	474127	2.00000	
$ 9 2-Fluorophenol	112	2.717	2.712	(0.742)	1675781	4.58423	4.58
$ 13 Phenol-d6	99	3.337	3.332	(0.911)	2165934	4.50678	4.50
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	1791428	2.00000	
$ 33 Nitrobenzene-d5	82	4.118	4.124	(0.862)	1877709	4.81333	4.81
* 86 Acenaphthene-d10	164	6.456	6.461	(1.000)	848701	2.00000	
$ 69 2-Fluorobiphenyl	172	5.798	5.803	(0.898)	2691298	4.59357	4.59
* 126 Phenanthrene-d10	188	7.916	7.921	(1.000)	1458844	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.231	7.237	(1.120)	224225	3.61497	3.61
* 162 Chrysene-d12	240	10.788	10.793	(1.000)	1144616	2.00000	(M)
$ 158 4-Terphenyl-d14	244	9.515	9.520	(0.882)	1836779	4.00129	4.00(M)
* 198 Perylene-d12	264	12.885	12.895	(1.000)	1063173	2.00000	
184 bis(2-ethylhexyl)phthalate	149	10.831	10.842	(1.004)	320883	0.52770	0.52

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\025.D
Date : 18-SEP-2010 20:11
Client ID: 1009543-13E
Instrument: SV6.i
Sample Info: 1009543-13E;1009543-13E
Purge Volume: 1000.0
Operator: LG
Column phase: RTX-5SIL MS
Column diameter: 0.28



Data File: \\alshsws008\target\ohem\SV6.i\100918A.b\025.D

Date : 18-SEP-2010 20:11

Client ID: 1009543-13E

Instrument: SV6.i

Sample Info: 1009543-13E;1009543-13E

Purge Volume: 1000.0

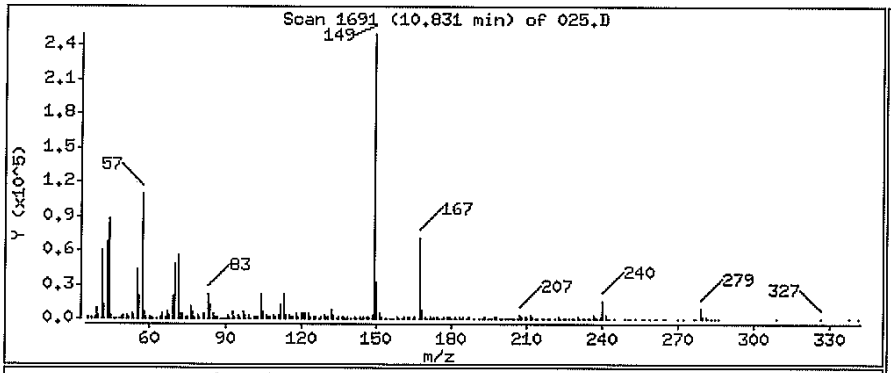
Operator: LG

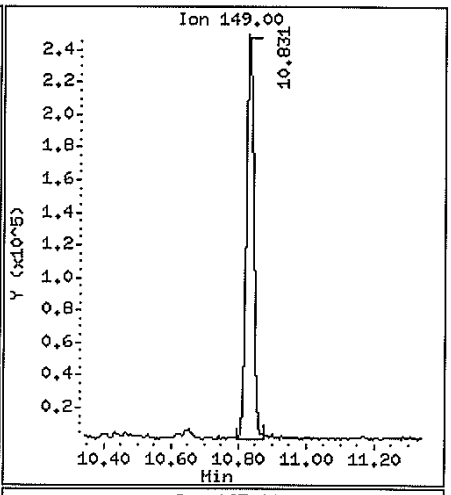
Column phase: RTX-5SIL MS

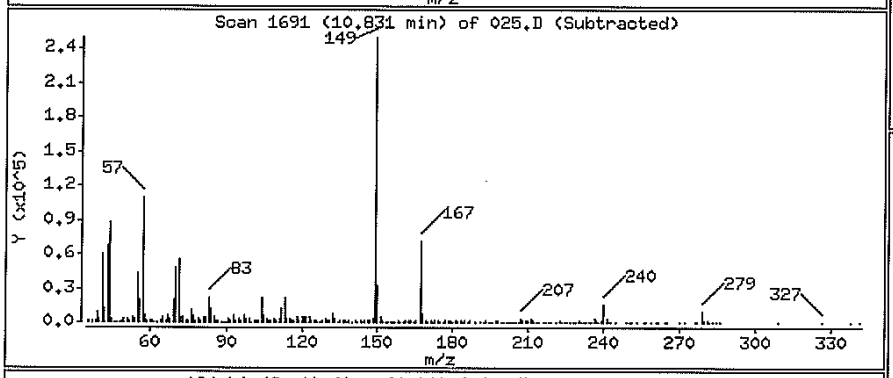
Column diameter: 0.28

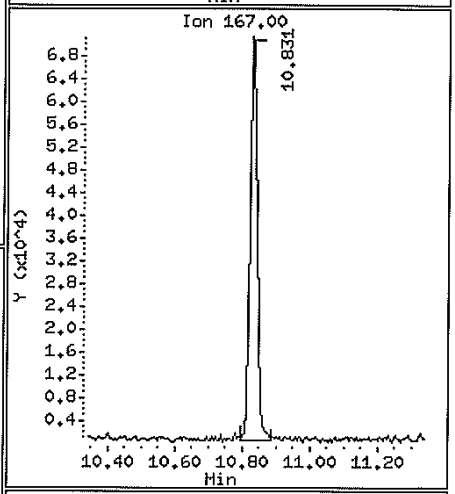
184 bis(2-ethylhexyl)phthalate

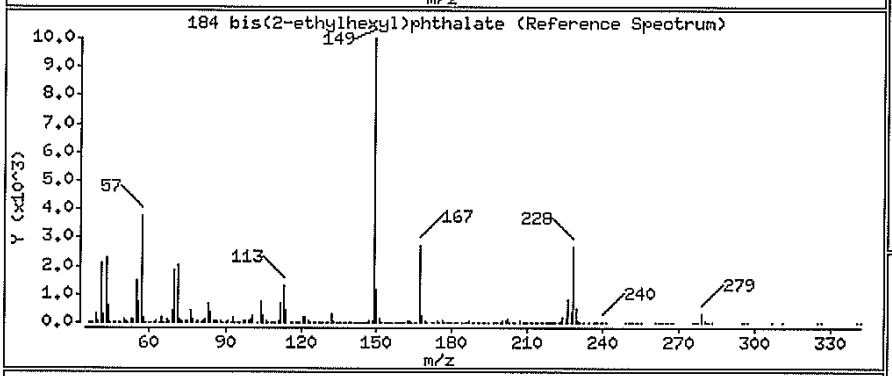
Concentration: 0.52 ug/L

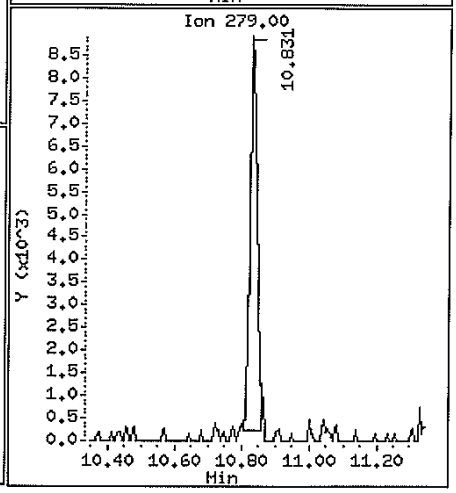


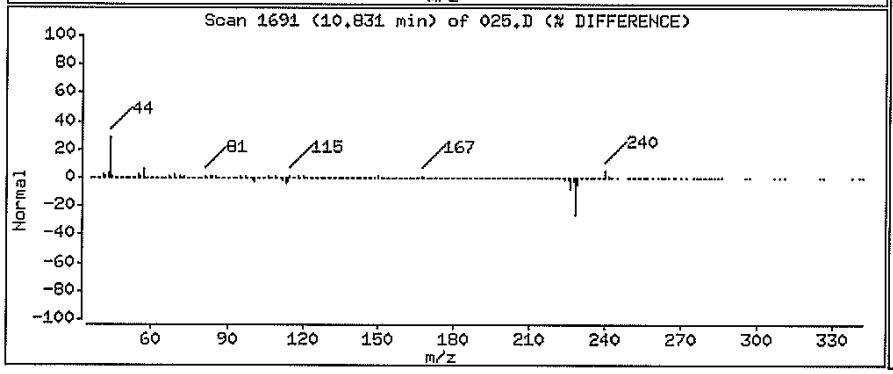












ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\alshsws008\target\chem\SV6.i\100918A.b\026.D
Lab Smp Id: 1009543-14E Client Smp ID: 1009543-14E
Inj Date : 18-SEP-2010 20:31 MS Autotune Date: 27-FEB-2008 05:32
Operator : LG Inst ID: SV6.i
Smp Info : 1009543-14E;1009543-14E
Misc Info : 1009543;1;0;1
Comment :
Method : \\alshsws008\target\chem\SV6.i\100918A.b\R8270DLL.m
Meth Date : 23-Sep-2010 15:31 SV6.i Quant Type: ISTD
Cal Date : 03-AUG-2010 14:04 Cal File: 010.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tcl4.3dp.sub
Target Version: 4.14
Processing Host: ALSHSXP089

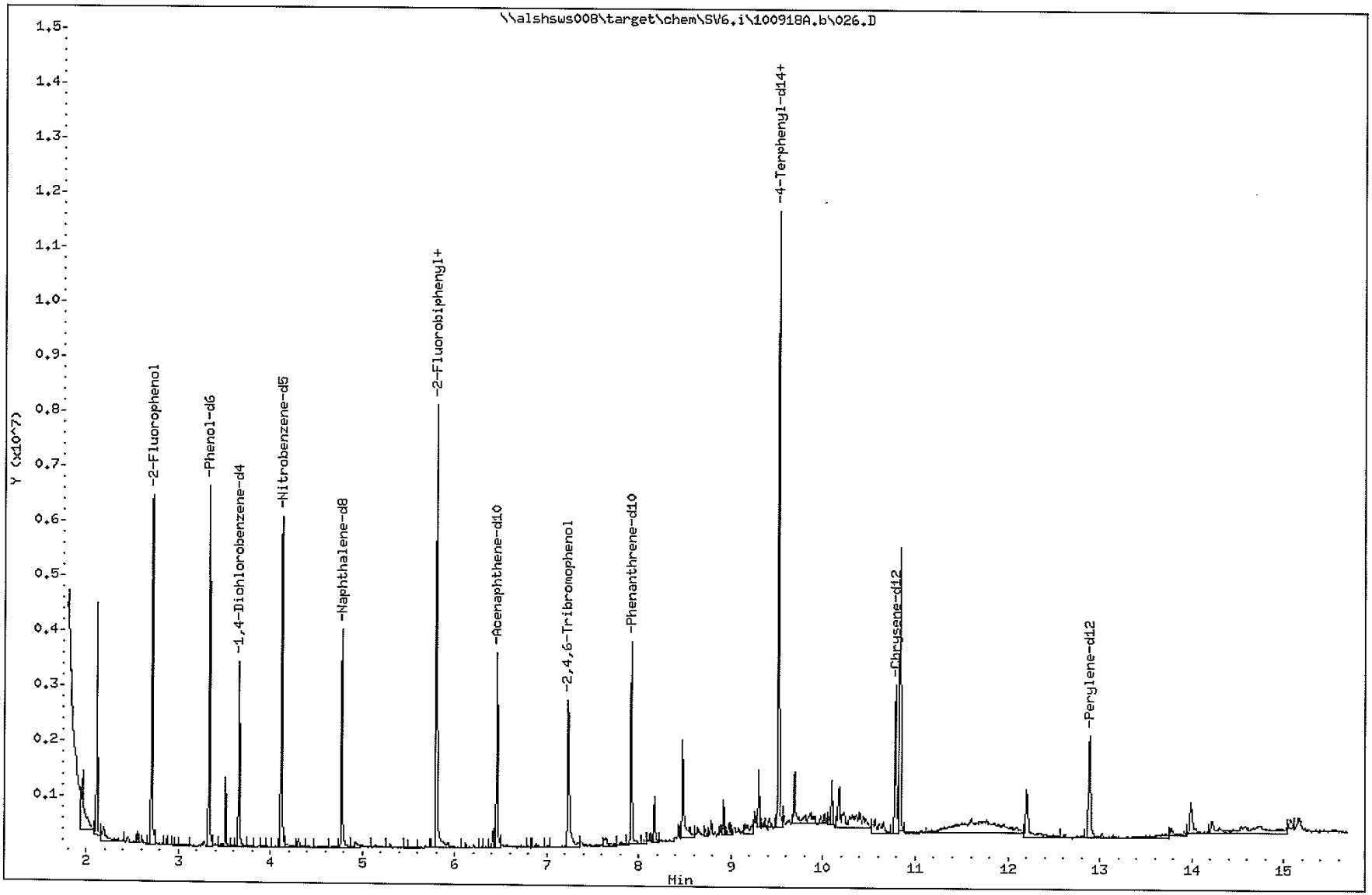
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.664	3.664	(1.000)	421796	2.00000	
$ 9 2-Fluorophenol	112	2.717	2.712	(0.742)	1546089	4.75418	4.75
$ 13 Phenol-d6	99	3.338	3.332	(0.911)	1953416	4.56887	4.56
* 45 Naphthalene-d8	136	4.776	4.776	(1.000)	1583505	2.00000	
$ 33 Nitrobenzene-d5	82	4.124	4.124	(0.863)	1698566	4.92583	4.92
* 86 Acenaphthene-d10	164	6.461	6.461	(1.000)	770054	2.00000	
$ 69 2-Fluorobiphenyl	172	5.803	5.803	(0.898)	2470911	4.64814	4.64
* 126 Phenanthrene-d10	188	7.916	7.921	(1.000)	1293342	2.00000	
$ 105 2,4,6-Tribromophenol	330	7.237	7.237	(1.120)	237735	4.22423	4.22
* 182 Chrysene-d12	240	10.788	10.793	(1.000)	1069190	2.00000	
$ 158 4-Terphenyl-d14	244	9.515	9.520	(0.882)	2720459	6.34440	6.34
* 198 Perylene-d12	264	12.890	12.895	(1.000)	975707	2.00000	
184 bis(2-ethylhexyl)phthalate	149	10.836	10.842	(1.004)	1662766	2.92736	2.92

Data File: \\alshsws008\target\chem\SV6.i\100918A.b\026.D
Date : 18-SEP-2010 20:31
Client ID: 1009543-14E
Sample Info: 1009543-14E;1009543-14E
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\alshsws008\target\ohem\SV6.i\100918A.b\026.D

Date : 18-SEP-2010 20:31

Client ID: 1009543-14E

Instrument: SV6.i

Sample Info: 1009543-14E;1009543-14E

Purge Volume: 1000.0

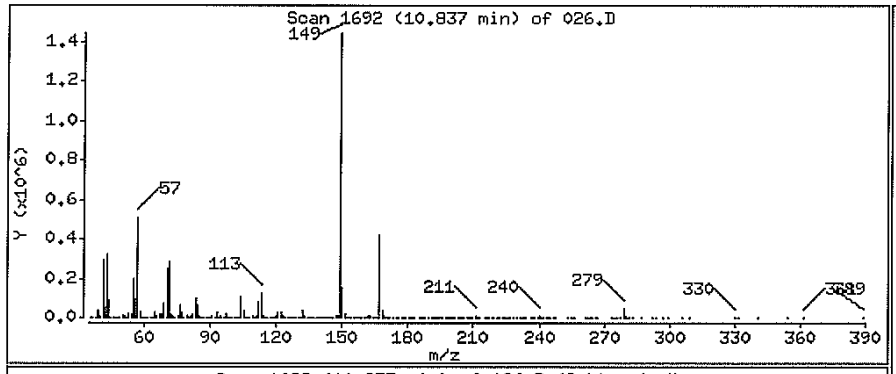
Operator: LG

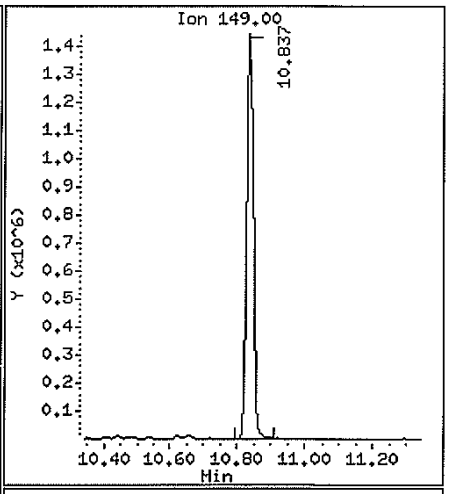
Column phase: RTX-5SIL MS

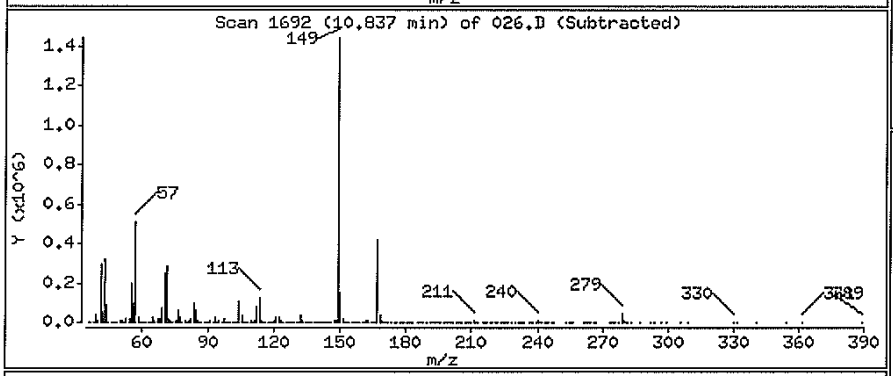
Column diameter: 0.28

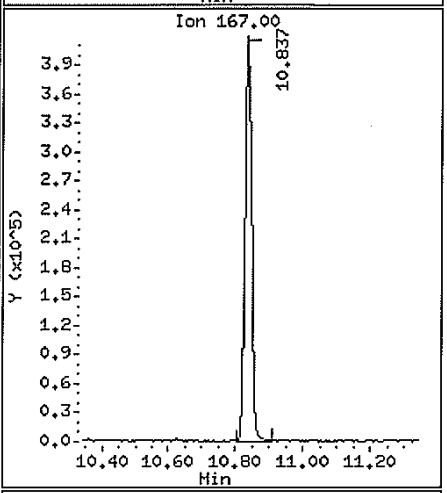
184 bis(2-ethylhexyl)phthalate

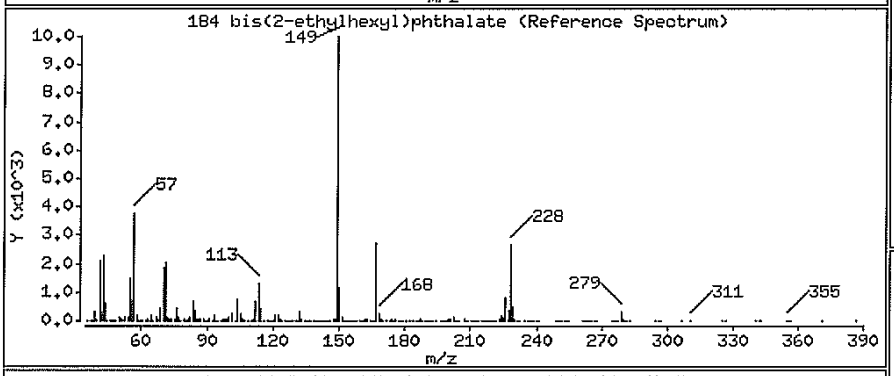
Concentration: 2.92 ug/L

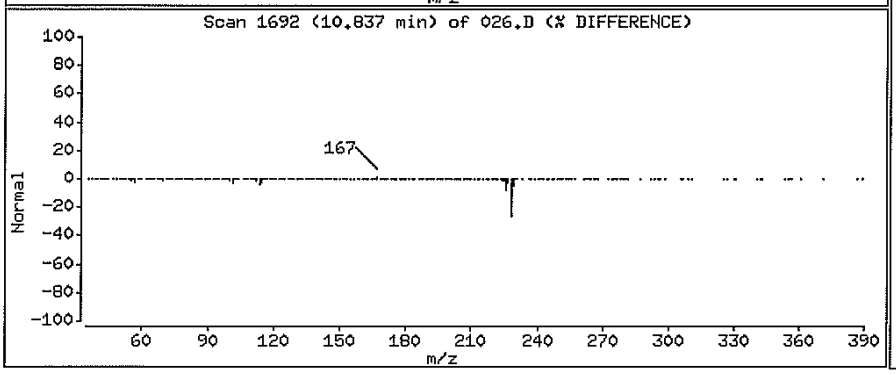


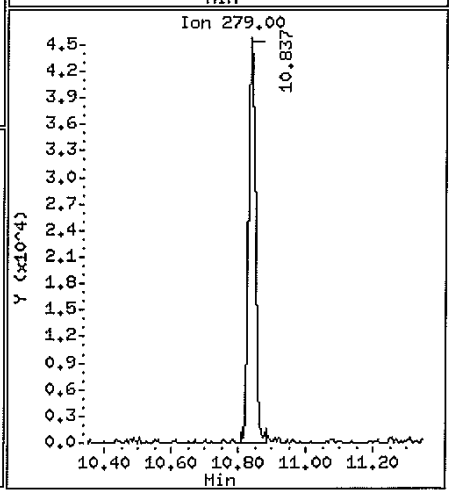












ALS Laboratory Group SV WATER EXTRACTIONS PREP LOG Logbook # 23408

Analyst KL Extraction Date: 9/18/10 Method 3510-R Low SOP Ext001

WO#	SX #	init pH	pH Adjust	Sample Volume mLs	Final Volume, mLs	Comments / Batch ID# 146178 H2O Bath Temp, ° C 59°C
SBLK-1	100918	5	12/127	1000ml	1.0ml	
SLCS-1						
SLCSD-1						
1009523	43D	7				
	44B					
	45B					
1009537	02D					
	04D					
	05D					
	07D					
	09D					
	11D					
	13D					
	14D					
1009543	02E					Possible 2.0 ml SURR
	04E					
	05E					
	07E					
	08E					
	10E					
	11E					
	13E					
	14E					

Syringe ID: 4391004	1	2	Comments: Sodium Sul. 2011313-19		
LCS ID: LCSD 20911-63-06 vol Added (mL): 1.0ml	1	2	3	4	5
MS ID:	vol Added (mL):		Extr Solv & ID: Methyl 635-86-07		
SURR ID: 20911-56-08	vol added (mL): 1.0ml		Exch Solv & ID:		
NaOH ID: 635-76-14			H_2SO_4 ID: 635-86-08		
Prepared by: KL			Reviewed by: SA		

Logbook #23316 Solids Extraction Prep Log Method 3541-B-Low

Analyst TL Date 09/17/2010 SOP # Ex T002

WO # / SX #	Initial Weight (g)	Solvent Volume	Soxhlet #	Final Vol. (mL)	Comments / Batch ID# Approx Wt Na_2SO_4 46110
JBCKS2-100917	30.00	50ml	01	1ml	jpk verified by KC
JLCSS2-100917	↓		02	↓	
JLCSDS2-100917			03		
1009537-01D	15.02		04	0.5ml	33.07
-03D	15.05		05		33.11
-06D	15.01		06		33.08
-08D	15.00		07		30.05
-10D	15.03		08		33.14
-12D	30.01		09	1ml	29.16
1009543-01C	15.01		10	0.5ml	33.21
-03C	15.04		11	↓	33.16
-06C	30.02		12	1ml	29.19
-09C	30.01		13	↓	29.26
-12C	15.02		14	0.5ml	33.24

09/17/2010 TL

Syringe ID: 439-11-11	1	2	Comments:		
LCS ID: LCSD2 0911-66-04 vol Added (mL): 1ml	1	2	3	4	Sox Temp (degC) 140 °C
MS ID: / vol Added (mL): /			Extr Solv & ID: CH2Cl2 - 635-86-07		
SURR ID: 2091-56-08 vol added (mL): 1ml / 0.5ml			Exch Solv & ID: /		
Na2SO4 ID: 2011 313-104			/		
Prepared by: TL			Reviewed by: SA		

ALKYL PAH Raw Data

Tetra Tech EM, Inc.
R04DW
Work Order 1009543

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	ALCSS1-10091	69	74	74	60					0
02	ALCSDS1-1009	69	86	76	65					0
03	ABLKS1-10091	62	78	65	55					0
04	1009543-01C	63	62	73	75					0
05	1009543-03C	72	70	82	88					0
06	1009543-06C	64	64	76	81					0
07	1009543-09C	64	66	77	77					0
08	1009543-12C	74	71	86	89					0
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	= Acenaphthylene-d8	(20- 97)
S2	= Anthracene-d10	(22- 98)
S3	= Pyrene-d10	(51-120)
S4	= Benzo(a)pyrene-d12	(43-111)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

	CLIENT SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	ABLKW1-10091	71	74	78	78					0
02	ALCSW1-10091	70	68	73	72					0
03	ALCSDW1-1009	68	70	79	77					0
04	1009543-04F	70	70	71	72					0
05	1009543-05F	74	69	79	75					0
06	1009543-07F	79	75	81	79					0
07	1009543-08F	73	76	77	76					0
08	ALCSW1-10091	71	84	71	65					0
09	ALCSDW1-1009	62	83	70	51					0
10	ABLKW1-10091	73	90	75	68					0
11	1009543-02F	70	72	73	72					0
12	1009543-10F	72	68	72	74					0
13	1009543-11F	68	75	71	68					0
14	1009543-13F	70	77	71	69					0
15	1009543-14F	75	74	77	73					0
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
S1	= Acenaphthylene-d8	(41-107)
S2	= Anthracene-d10	(44-110)
S3	= Pyrene-d10	(52-119)
S4	= Benzo(a)pyrene-d12	(32-121)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

ALS Laboratory Group — **GC/MS SV #7 Instrument Run Log** — **Logbook # 23101**

Sequence # 100916		Method: SOW-EPA-R4	SOP #: MSSV-004
RPM: MH	IS ID: 22717-12-05	CAL STD ID: 22717-13-02	DFTPP ID: 22717-30-07

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
1	DFTPP	50ng					9/16/10	1438	✓	MH	
2	ICAL-L1	0.1 ppm						1509	✓		
3	-L2	0.2						1534	✓		
4	-L3	0.4						1558	✓		
5	-L4	0.8						1623	✓		
6	-L5	1.0						1648	✓		
7	-L6	2.0						1712	✓		
8	ICV	0.4 ppm						1737	✓		
9	Ref. Oil	Ref. Oil						1801	✓		
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											MH 9/17/10

IS1 Naphthalene-d8:	35267	IS2 Acenapthene-d10:	17693
IS3 Fluorene-d10:	22437	IS4 Phenanthrene-d10:	30330
IS5 Fluoranthene-d10:	34490	IS6 Chrysene-d12:	27858
IS7 Perylene-d12:	20812		

#4

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FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV7 Calibration Date(s): 09/16/10 09/16/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1509 1712

LAB FILE ID: RF0.1: 2 RF0.2: 3 RF0.4: 4
RF0.8: 5 RF1: 6

COMPOUND	RF0.1	RF0.2	RF0.4	RF0.8	RF1
Naphthalene	1.258	1.218	1.229	1.234	1.219
2-Methylnaphthalene	0.649	0.596	0.645	0.661	0.660
1-Methylnaphthalene	0.937	0.776	0.805	0.763	0.766
C2-naphthalenes	1.258	1.218	1.229	1.234	1.219
C3-naphthalenes	1.258	1.218	1.229	1.234	1.219
C4-naphthalenes	1.258	1.218	1.229	1.234	1.219
2-Methylnaphthalene-d10	0.669	0.594	0.622	0.635	0.564
Acenaphthylene	2.218	2.110	2.215	2.107	2.214
Acenaphthene	1.431	1.362	1.422	1.349	1.417
Fluorene	1.214	1.253	1.264	1.243	1.212
C1-fluorenes	1.214	1.253	1.264	1.243	1.212
C2-fluorenes	1.214	1.253	1.264	1.243	1.212
C3-fluorenes	1.214	1.253	1.264	1.243	1.212
Phenanthrene	1.241	1.190	1.190	1.156	1.199
Anthracene	1.374	1.432	1.329	1.282	1.361
C1-phenanthrenes/anthracenes	1.241	1.190	1.190	1.156	1.199
C2-phenanthrenes/anthracenes	1.241	1.190	1.190	1.156	1.199
C3-phenanthrenes/anthracenes	1.241	1.190	1.190	1.156	1.199
C4-phenanthrenes/anthracenes	1.241	1.190	1.190	1.156	1.199
2,3-Dimethylanthracene	0.803	0.804	0.774	0.772	0.793
1-Methylphenanthrene	1.038	1.083	0.960	1.048	1.033
Fluoranthene	1.281	1.244	1.089	1.107	1.128
Pyrene	1.315	1.290	1.294	1.296	1.338
C1-fluoranthenes/pyrenes	1.281	1.244	1.089	1.107	1.128
C2-fluoranthenes/pyrenes	1.281	1.244	1.089	1.107	1.128
C3-Fluoranthenes/Pyrenes	1.281	1.244	1.089	1.107	1.128
2-Methylfluoranthenes	0.777	0.732	0.729	0.733	0.756
1-Methylpyrene	0.831	0.802	0.799	0.792	0.842
Benzo(a)anthracene	1.018	0.962	1.009	1.028	1.072
Chrysene	1.743	1.630	1.613	1.484	1.516
C1-chrysenes	1.743	1.630	1.613	1.484	1.516
C2-chrysenes	1.743	1.630	1.613	1.484	1.516
C3-chrysenes	1.743	1.630	1.613	1.484	1.516
C4-chrysenes	1.743	1.630	1.613	1.484	1.516
6-Methylchrysene	0.934	0.883	0.899	0.842	0.886
Benzo(b)fluoranthene	1.290	1.303	1.356	1.270	1.268
Benzo(k)fluoranthene	2.157	1.863	1.850	1.727	1.728

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV7 Calibration Date(s): 09/16/10 09/16/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1509 1712

LAB FILE ID: RF0.1: 2 RF0.2: 3 RF0.4: 4
RF0.8: 5 RF1: 6

COMPOUND	RF0.1	RF0.2	RF0.4	RF0.8	RF1
Benzo(e)pyrene	1.539	1.518	1.477	1.402	1.384
Benzo(a)pyrene	1.415	1.408	1.431	1.381	1.374
Perylene	1.546	1.633	1.580	1.485	1.459
Indeno(1,2,3-cd)pyrene	1.048	0.956	1.034	1.016	1.012
Dibenzo(a,h)anthracene	1.331	1.220	1.199	1.245	1.191
Benzo(g,h,i)perylene	1.500	1.485	1.386	1.327	1.326
Acenaphthylene-d8	1.931	1.834	1.895	1.819	1.903
Anthracene-d10	1.540	1.438	1.185	1.128	1.164
Pyrene-d10	1.117	1.029	1.060	1.050	1.062
Benzo(a)pyrene-d12	0.683	0.658	0.676	0.676	0.708

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV7 Calibration Date(s): 09/16/10 09/16/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1509 1712

RF2: 7

COMPOUND	RF2	CURVE	COEFFICENT A1	%RSD OR R^2
Naphthalene	1.208	AVRG	1.22772237	1.4
2-Methylnaphthalene	0.667	AVRG	0.64629372	4.0
1-Methylnaphthalene	0.746	AVRG	0.79914943	8.8
C2-naphthalenes	1.208	AVRG	1.22772237	1.4
C3-naphthalenes	1.208	AVRG	1.22772237	1.4
C4-naphthalenes	1.208	AVRG	1.22772237	1.4
2-Methylnaphthalene-d10	0.578	AVRG	0.61021863	6.4
Acenaphthylene	2.083	AVRG	2.15798418	3.0
Acenaphthene	1.311	AVRG	1.38188666	3.5
Fluorene	1.189	AVRG	1.22924270	2.3
C1-fluorenes	1.189	AVRG	1.22924270	2.3
C2-fluorenes	1.189	AVRG	1.22924270	2.3
C3-fluorenes	1.189	AVRG	1.22924270	2.3
Phenanthrene	1.174	AVRG	1.19158062	2.4
Anthracene	1.289	AVRG	1.34471021	4.2
C1-phenanthrenes/anthracenes	1.174	AVRG	1.19158062	2.4
C2-phenanthrenes/anthracenes	1.174	AVRG	1.19158062	2.4
C3-phenanthrenes/anthracenes	1.174	AVRG	1.19158062	2.4
C4-phenanthrenes/anthracenes	1.174	AVRG	1.19158062	2.4
2,3-Dimethylanthracene	0.783	AVRG	0.78807598	1.8
1-Methylphenanthrene	1.013	AVRG	1.02937772	4.0
Fluoranthene	1.134	AVRG	1.16402948	6.8
Pyrene	1.316	AVRG	1.30813548	1.4
C1-fluoranthenes/pyrenes	1.134	AVRG	1.16402948	6.8
C2-fluoranthenes/pyrenes	1.134	AVRG	1.16402948	6.8
C3-Fluoranthenes/Pyrenes	1.134	AVRG	1.16402948	6.8
2-Methylfluoranthenes	0.751	AVRG	0.74642188	2.5
1-Methylpyrene	0.825	AVRG	0.81526978	2.5
Benzo(a)anthracene	1.089	AVRG	1.02984195	4.4
Chrysene	1.408	AVRG	1.56573515	7.6
C1-chrysenes	1.408	AVRG	1.56573515	7.6
C2-chrysenes	1.408	AVRG	1.56573515	7.6
C3-chrysenes	1.408	AVRG	1.56573515	7.6
C4-chrysenes	1.408	AVRG	1.56573515	7.6
6-Methylchrysene	0.873	AVRG	0.88625372	3.4
Benzo(b)fluoranthene	1.223	AVRG	1.28505277	3.4
Benzo(k)fluoranthene	1.543	AVRG	1.81123990	11.3

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV7 Calibration Date(s): 09/16/10 09/16/10

Column: RTX-5SIL MS ID: 0.28 (mm) Calibration Time(s): 1509 1712

RF2: 7

COMPOUND	RF2	CURVE	COEFFICENT A1	%RSD OR R^2
Benzo(e)pyrene	1.292	AVRG	1.43536889	6.5
Benzo(a)pyrene	1.292	AVRG	1.38351502	3.6
Perylene	1.350	AVRG	1.50898988	6.6
Indeno(1,2,3-cd)pyrene	0.990	AVRG	1.00947534	3.2
Dibenzo(a,h)anthracene	1.158	AVRG	1.22394317	4.9
Benzo(g,h,i)perylene	1.252	AVRG	1.37927975	7.1
Acenaphthylene-d8	1.768	AVRG	1.85844928	3.3
Anthracene-d10	1.096	AVRG	1.25855573	14.6
Pyrene-d10	1.054	AVRG	1.06216728	2.8
Benzo(a)pyrene-d12	0.712	AVRG	0.68559630	3.0

FORM VI SV

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100916.b\2.D
Lab Smp Id: ICAL1 Client Smp ID: ICAL1
Inj Date : 16-SEP-2010 15:09 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ICAL1;ICAL1;1;1
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100916.b\8270AP.m
Meth Date : 17-Sep-2010 16:15 hvan Quant Type: ISTD
Cal Date : 16-SEP-2010 15:09 Cal File: 2.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Naphthalene-d8	136	5.099	5.099	(1.000)	32617	0.40000	
	2 Naphthalene	128	5.121	5.122	(1.004)	10262	0.10000	0.1025
	8 2-Methylnaphthalene-d10	152	5.889	5.889	(1.155)	5455	0.10000	0.1096
	3 2-Methylnaphthalene	142	5.926	5.926	(1.162)	5294	0.10000	0.1004
	4 1-Methylnaphthalene	142	6.038	6.038	(1.184)	7640	0.10000	0.1172
$	12 Acenaphthylene-d8	160	6.969	6.969	(0.973)	8430	0.10000	0.1039
	10 Acenaphthylene	152	6.984	6.984	(0.975)	9682	0.10000	0.1028
*	9 Acenaphthene-d10	162	7.163	7.155	(1.000)	17460	0.40000	
	11 Acenaphthene	153	7.193	7.193	(1.004)	6245	0.10000	0.1035
*	13 Fluorene-d10	176	7.789	7.789	(1.000)	21958	0.40000	
	14 Fluorene	166	7.818	7.819	(1.004)	6664	0.10000	0.09876(a)
*	18 Phenanthrene-d10	188	8.951	8.945	(1.000)	28325	0.40000	
	19 Phenanthrene	178	8.978	8.972	(1.003)	8789	0.10000	0.1042
$	27 Anthracene-d10	188	9.017	9.011	(1.007)	10909	0.10000	0.1211
	20 Anthracene	178	9.037	9.037	(1.010)	9731	0.10000	0.1022
	26 1-Methylphenanthrene	192	9.728	9.728	(1.087)	7354	0.10000	0.1009
*	28 Fluoranthene-d10	212	10.399	10.391	(1.000)	33729	0.40000	
	29 Fluoranthene	202	10.415	10.416	(1.002)	10803	0.10000	0.1101
	25 2,3-Dimethylanthracene	206	10.457	10.457	(1.168)	5686	0.10000	0.1019
$	36 Pyrene-d10	212	10.662	10.662	(1.025)	9423	0.10000	0.1052
	30 Pyrene	202	10.687	10.679	(1.028)	11087	0.10000	0.1005

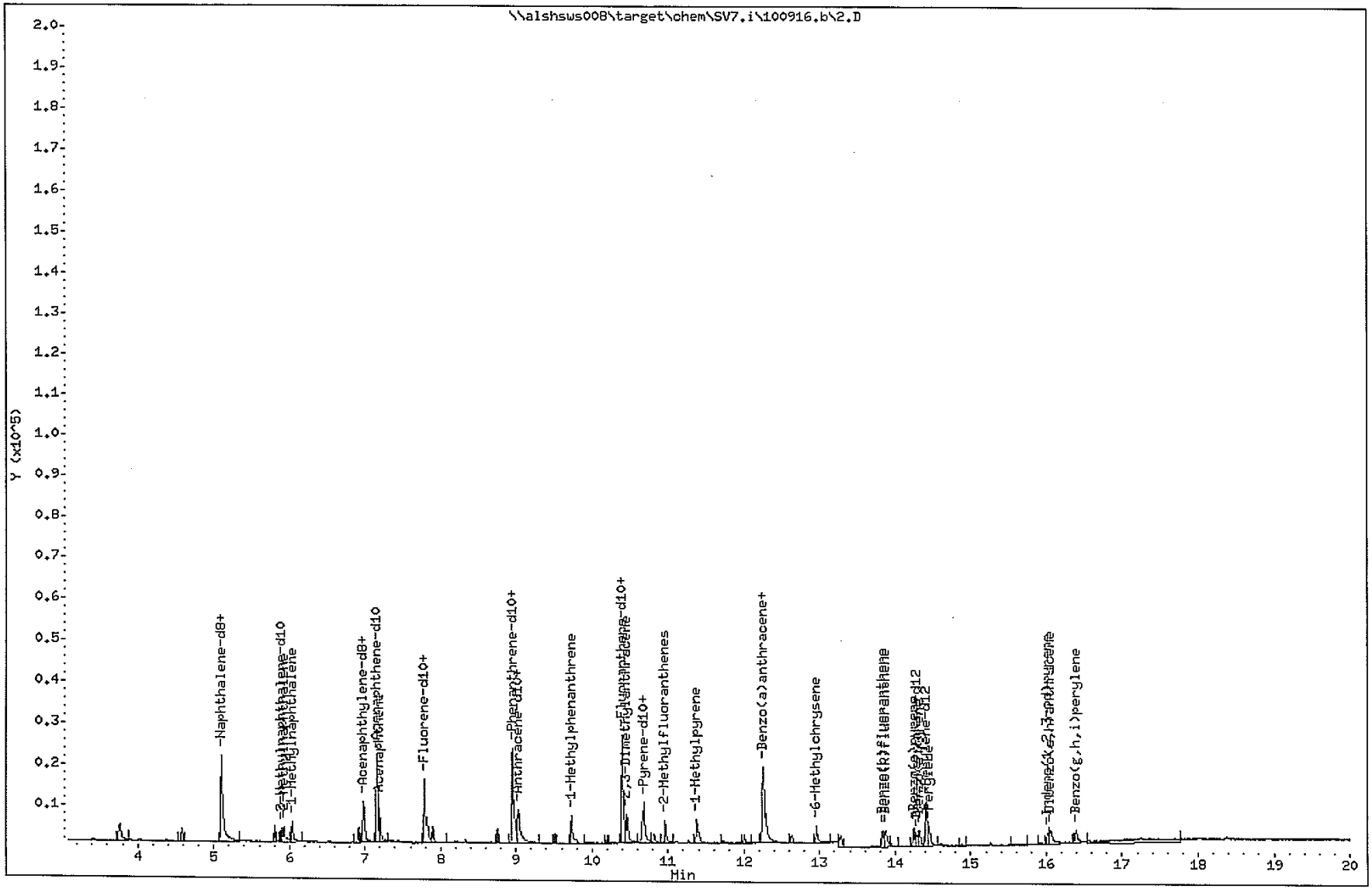
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	34 2-Methylfluoranthenes	216	10.966	10.966	(1.055)	6551	0.10000	0.1041
	35 1-Methylpyrene	216	11.378	11.378	(1.094)	7011	0.10000	0.1020
	38 Benzo(a)anthracene	228	12.241	12.233	(0.999)	6732	0.10000	0.09883(a)
*	37 Chrysene-d12	240	12.249	12.249	(1.000)	26458	0.40000	
	39 Chrysene	228	12.291	12.283	(1.003)	11532	0.10000	0.1113
	44 6-Methylchrysene	242	12.957	12.957	(1.058)	6177	0.10000	0.1054
	47 Benzo(b)fluoranthene	252	13.834	13.824	(0.960)	6158	0.10000	0.1004
	48 Benzo(k)fluoranthene	252	13.873	13.868	(0.963)	10292	0.10000	0.1191
	49 Benzo(e)pyrene	252	14.245	14.240	(0.988)	7343	0.10000	0.1072
$	45 Benzo(a)pyrene-d12	264	14.289	14.279	(1.166)	4519	0.10000	0.09965(a)
	50 Benzo(a)pyrene	252	14.328	14.318	(0.994)	6754	0.10000	0.1023
*	46 Perylene-d12	264	14.411	14.406	(1.000)	19089	0.40000	
	51 Perylene	252	14.450	14.446	(1.003)	7377	0.10000	0.1024
	52 Indeno(1,2,3-cd)pyrene	276	16.021	16.011	(1.112)	5000	0.10000	0.09600(aM)
	53 Dibenzo(a,h)anthracene	278	16.060	16.051	(1.114)	6352	0.10000	0.1087
	54 Benzo(g,h,i)perylene	276	16.393	16.388	(1.138)	7158	0.10000	0.1087

QC Flag Legend

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

Data File: \\alshsws008\target\chem\SV7.i\100916.b\2.D
Date : 16-SEP-2010 15:09
Client ID: ICAL1
Sample Info: ICAL1;ICAL1;1;1
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100916.b\3.D
Lab Smp Id: ICAL2 Client Smp ID: ICAL2
Inj Date : 16-SEP-2010 15:34 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ICAL2;ICAL2;1;2
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100916.b\8270AP.m
Meth Date : 17-Sep-2010 16:15 hvan Quant Type: ISTD
Cal Date : 16-SEP-2010 15:34 Cal File: 3.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Naphthalene-d8	136	5.098	5.099	(1.000)	34762	0.40000	
	2 Naphthalene	128	5.121	5.122	(1.004)	21163	0.20000	0.1984
	8 2-Methylnaphthalene-d10	152	5.888	5.889	(1.155)	10316	0.20000	0.1945
	3 2-Methylnaphthalene	142	5.926	5.926	(1.162)	10354	0.20000	0.1843
	4 1-Methylnaphthalene	142	6.037	6.038	(1.184)	13498	0.20000	0.1944
$	12 Acenaphthylene-d8	160	6.969	6.969	(0.973)	16237	0.20000	0.1973
	10 Acenaphthylene	152	6.984	6.984	(0.975)	18688	0.20000	0.1956
*	9 Acenaphthene-d10	162	7.163	7.155	(1.000)	17710	0.40000	
	11 Acenaphthene	153	7.192	7.193	(1.004)	12061	0.20000	0.1971
*	13 Fluorene-d10	176	7.789	7.789	(1.000)	21370	0.40000	
	14 Fluorene	166	7.818	7.819	(1.004)	13387	0.20000	0.2038
*	18 Phenanthrene-d10	188	8.945	8.945	(1.000)	29034	0.40000	
	19 Phenanthrene	178	8.971	8.972	(1.003)	17275	0.20000	0.1997
$	27 Anthracene-d10	188	9.010	9.011	(1.007)	20871	0.20000	0.2260
	20 Anthracene	178	9.037	9.037	(1.010)	20792	0.20000	0.2130
	26 1-Methylphenanthrene	192	9.728	9.728	(1.088)	15717	0.20000	0.2104
*	28 Fluoranthene-d10	212	10.391	10.391	(1.000)	35603	0.40000	
	29 Fluoranthene	202	10.415	10.416	(1.002)	22154	0.20000	0.2138
	25 2,3-Dimethylanthracene	206	10.456	10.457	(1.169)	11678	0.20000	0.2042
$	36 Pyrene-d10	212	10.662	10.662	(1.026)	18321	0.20000	0.1938
	30 Pyrene	202	10.687	10.679	(1.028)	22963	0.20000	0.1972

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	34 2-Methylfluoranthenes	216	10.966	10.966	(1.055)	13027	0.20000	0.1961
	35 1-Methylpyrene	216	11.378	11.378	(1.095)	14268	0.20000	0.1966
	38 Benzo(a)anthracene	228	12.233	12.233	(0.999)	13884	0.20000	0.1868
*	37 Chrysene-d12	240	12.249	12.249	(1.000)	28864	0.40000	
	39 Chrysene	228	12.282	12.283	(1.003)	23518	0.20000	0.2082
	44 6-Methylchrysene	242	12.948	12.957	(1.057)	12747	0.20000	0.1993
	47 Benzo(b)fluoranthene	252	13.829	13.824	(0.960)	13525	0.20000	0.2028
	48 Benzo(k)fluoranthene	252	13.868	13.868	(0.963)	19340	0.20000	0.2057
	49 Benzo(e)pyrene	252	14.240	14.240	(0.988)	15764	0.20000	0.2116
$	45 Benzo(a)pyrene-d12	264	14.284	14.279	(1.166)	9501	0.20000	0.1920
	50 Benzo(a)pyrene	252	14.318	14.318	(0.994)	14621	0.20000	0.2036
*	46 Perylene-d12	264	14.406	14.406	(1.000)	20764	0.40000	
	51 Perylene	252	14.445	14.446	(1.003)	16954	0.20000	0.2164
	52 Indeno(1,2,3-cd)pyrene	276	16.011	16.011	(1.111)	9925	0.20000	0.1894(M)
	53 Dibenzo(a,h)anthracene	278	16.055	16.051	(1.114)	12666	0.20000	0.1994
	54 Benzo(g,h,i)perylene	276	16.388	16.388	(1.138)	15415	0.20000	0.2153

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV7.i\100916.b\3.D
Date : 16-SEP-2010 15:34
Client ID: ICAL2
Sample Info: ICAL2;ICAL2;1;2
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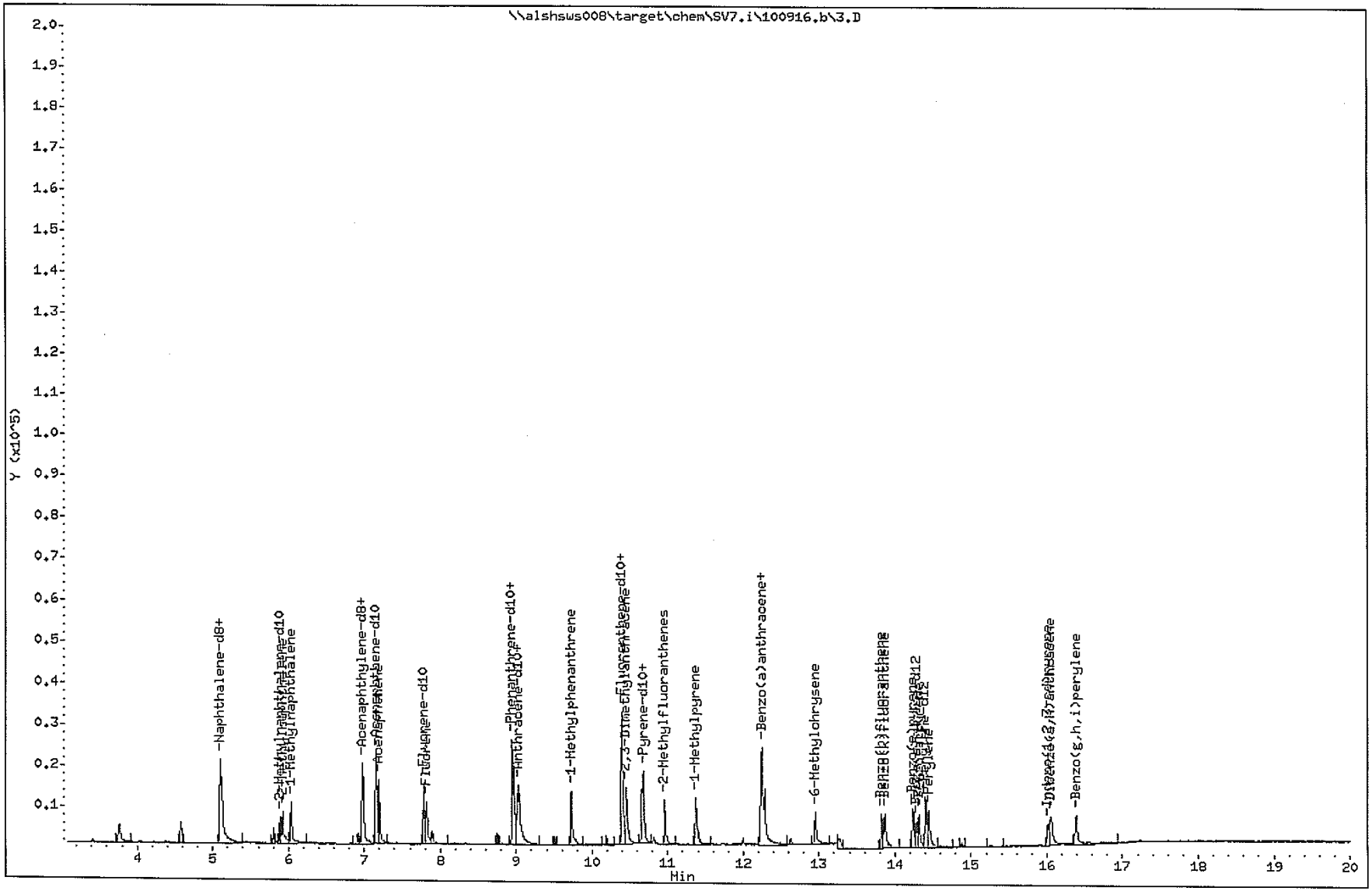
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28



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GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100916.b\4.D
Lab Smp Id: ICAL3 Client Smp ID: ICAL3
Inj Date : 16-SEP-2010 15:58 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ICAL3;ICAL3;1;3
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100916.b\8270AP.m
Meth Date : 17-Sep-2010 16:15 hvan Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Naphthalene-d8	136	5.099	5.099	(1.000)	35267	0.40000	
	2 Naphthalene	128	5.121	5.122	(1.004)	43343	0.40000	0.4004
	8 2-Methylnaphthalene-d10	152	5.889	5.889	(1.155)	21927	0.40000	0.4076
	3 2-Methylnaphthalene	142	5.926	5.926	(1.162)	22751	0.40000	0.3993
	4 1-Methylnaphthalene	142	6.038	6.038	(1.184)	28397	0.40000	0.4030
$	12 Acenaphthylene-d8	160	6.969	6.969	(0.974)	33537	0.40000	0.4080
	10 Acenaphthylene	152	6.984	6.984	(0.976)	39189	0.40000	0.4106
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	17693	0.40000	
	11 Acenaphthene	153	7.193	7.193	(1.005)	25164	0.40000	0.4117
*	13 Fluorene-d10	176	7.789	7.789	(1.000)	22437	0.40000	
	14 Fluorene	166	7.819	7.819	(1.004)	28356	0.40000	0.4112
*	18 Phenanthrene-d10	188	8.945	8.945	(1.000)	30330	0.40000	
	19 Phenanthrene	178	8.971	8.972	(1.003)	36081	0.40000	0.3993
$	27 Anthracene-d10	188	9.011	9.011	(1.007)	35942	0.40000	0.3766
	20 Anthracene	178	9.037	9.037	(1.010)	40320	0.40000	0.3954
	26 1-Methylphenanthrene	192	9.728	9.728	(1.088)	29131	0.40000	0.3732
*	28 Fluoranthene-d10	212	10.391	10.391	(1.000)	34490	0.40000	
	29 Fluoranthene	202	10.415	10.416	(1.002)	37555	0.40000	0.3742
	25 2,3-Dimethylanthracene	206	10.457	10.457	(1.169)	23461	0.40000	0.3926
$	36 Pyrene-d10	212	10.662	10.662	(1.026)	36576	0.40000	0.3994
	30 Pyrene	202	10.679	10.679	(1.028)	44615	0.40000	0.3955

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	34 2-Methylfluoranthenes	216	10.966	10.966	(1.055)	25160	0.40000	0.3909
	35 1-Methylpyrene	216	11.378	11.378	(1.095)	27574	0.40000	0.3922
	38 Benzo(a)anthracene	228	12.233	12.233	(0.999)	28118	0.40000	0.3920
*	37 Chrysene-d12	240	12.249	12.249	(1.000)	27858	0.40000	
	39 Chrysene	228	12.282	12.283	(1.003)	44935	0.40000	0.4121
	44 6-Methylchrysene	242	12.957	12.957	(1.058)	25047	0.40000	0.4058
	47 Benzo(b)fluoranthene	252	13.824	13.824	(0.960)	28224	0.40000	0.4221
	48 Benzo(k)fluoranthene	252	13.868	13.868	(0.963)	38510	0.40000	0.4086
	49 Benzo(e)pyrene	252	14.240	14.240	(0.988)	30740	0.40000	0.4116
$	45 Benzo(a)pyrene-d12	264	14.279	14.279	(1.166)	18836	0.40000	0.3945
	50 Benzo(a)pyrene	252	14.318	14.318	(0.994)	29782	0.40000	0.4137
*	46 Perylene-d12	264	14.406	14.406	(1.000)	20812	0.40000	
	51 Perylene	252	14.446	14.446	(1.003)	32894	0.40000	0.4190
	52 Indeno(1,2,3-cd)pyrene	276	16.011	16.011	(1.111)	21530	0.40000	0.4099
	53 Dibenzo(a,h)anthracene	278	16.051	16.051	(1.114)	24947	0.40000	0.3917
	54 Benzo(g,h,i)perylene	276	16.388	16.388	(1.138)	28847	0.40000	0.4020

Data File: \\alshsws008\target\chem\SV7.i\100916.b\4.D
Date : 16-SEP-2010 15:58
Client ID: ICAL3
Sample Info: ICAL3;ICAL3;1;3
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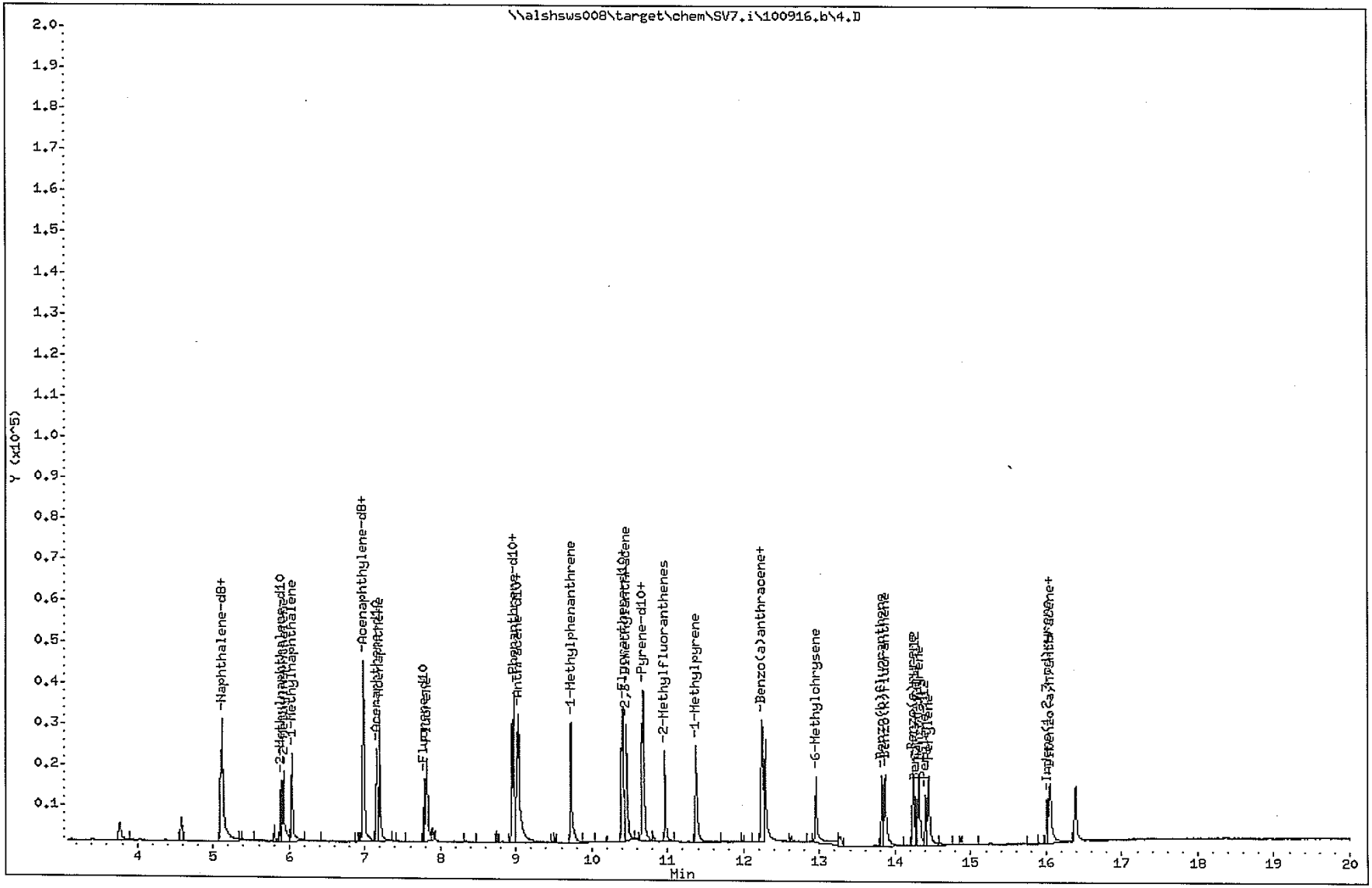
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28



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GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100916.b\5.D
Lab Smp Id: ICAL4 Client Smp ID: ICAL4
Inj Date : 16-SEP-2010 16:23 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ICAL4;ICAL4;1;4
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100916.b\8270AP.m
Meth Date : 17-Sep-2010 16:15 hvan Quant Type: ISTD
Cal Date : 16-SEP-2010 16:23 Cal File: 5.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Naphthalene-d8	136	5.099	5.099	(1.000)	33559	0.40000	
	2 Naphthalene	128	5.121	5.122	(1.004)	82817	0.80000	0.8040
	8 2-Methylnaphthalene-d10	152	5.889	5.889	(1.155)	42614	0.80000	0.8324
	3 2-Methylnaphthalene	142	5.926	5.926	(1.162)	44344	0.80000	0.8178
	4 1-Methylnaphthalene	142	6.038	6.038	(1.184)	51226	0.80000	0.7640
$	12 Acenaphthylene-d8	160	6.969	6.969	(0.974)	63754	0.80000	0.7829
	10 Acenaphthylene	152	6.984	6.984	(0.976)	73864	0.80000	0.7812
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	17526	0.40000	
	11 Acenaphthene	153	7.193	7.193	(1.005)	47278	0.80000	0.7808
*	13 Fluorene-d10	176	7.789	7.789	(1.000)	21359	0.40000	
	14 Fluorene	166	7.819	7.819	(1.004)	53101	0.80000	0.7956
*	18 Phenanthrene-d10	188	8.945	8.945	(1.000)	30676	0.40000	
	19 Phenanthrene	178	8.971	8.972	(1.003)	70935	0.80000	0.7762
$	27 Anthracene-d10	188	9.011	9.011	(1.007)	69240	0.80000	0.6766
	20 Anthracene	178	9.037	9.037	(1.010)	78677	0.80000	0.7901
	26 1-Methylphenanthrene	192	9.721	9.728	(1.087)	64301	0.80000	0.8145
*	28 Fluoranthene-d10	212	10.391	10.391	(1.000)	33706	0.40000	
	29 Fluoranthene	202	10.415	10.416	(1.002)	74616	0.80000	0.7607
	25 2,3-Dimethylanthracene	206	10.457	10.457	(1.169)	47335	0.80000	0.7832
$	36 Pyrene-d10	212	10.662	10.662	(1.026)	70799	0.80000	0.7910
	30 Pyrene	202	10.679	10.679	(1.028)	87385	0.80000	0.7928

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	34 2-Methylfluoranthenes	216	10.966	10.966	(1.055)	49420	0.80000	0.7857
	35 1-Methylpyrene	216	11.378	11.378	(1.095)	53385	0.80000	0.7771
	38 Benzo(a)anthracene	228	12.233	12.233	(0.999)	58319	0.80000	0.7989
*	37 Chrysene-d12	240	12.249	12.249	(1.000)	28353	0.40000	
	39 Chrysene	228	12.282	12.283	(1.003)	84167	0.80000	0.7583
	44 6-Methylchrysene	242	12.949	12.957	(1.057)	47747	0.80000	0.7601
	47 Benzo(b)fluoranthene	252	13.824	13.824	(0.960)	54965	0.80000	0.7906
	48 Benzo(k)fluoranthene	252	13.863	13.868	(0.962)	74745	0.80000	0.7628
	49 Benzo(e)pyrene	252	14.240	14.240	(0.988)	60688	0.80000	0.7815
$	45 Benzo(a)pyrene-d12	264	14.279	14.279	(1.166)	38310	0.80000	0.7883
	50 Benzo(a)pyrene	252	14.318	14.318	(0.994)	59753	0.80000	0.7983
*	46 Perylene-d12	264	14.406	14.406	(1.000)	21640	0.40000	
	51 Perylene	252	14.446	14.446	(1.003)	64287	0.80000	0.7875
	52 Indeno(1,2,3-cd)pyrene	276	16.006	16.011	(1.111)	43982	0.80000	0.7033
	53 Dibenzo(a,h)anthracene	278	16.051	16.051	(1.114)	53891	0.80000	0.8139
	54 Benzo(g,h,i)perylene	276	16.383	16.388	(1.137)	57440	0.80000	0.7698

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Date : 16-SEP-2010 16:23
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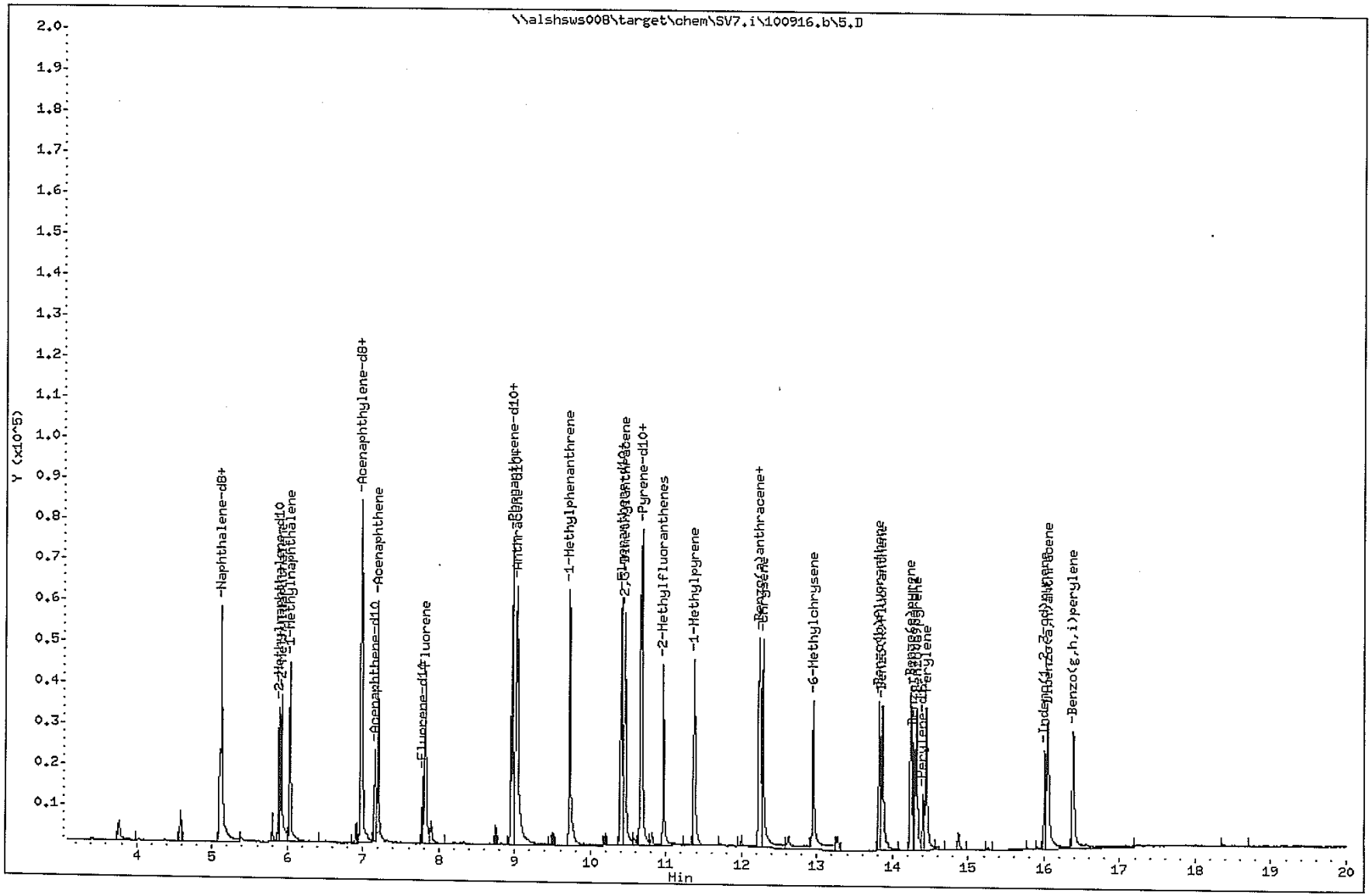
Column phase: RTX-5SIL MS

Instrument: SV7.i

Operator: ALSHS.NoUser
Column diameter: 0.28



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100916.b\6.D
Lab Smp Id: ICAL5 Client Smp ID: ICAL5
Inj Date : 16-SEP-2010 16:48 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ICAL5;ICAL5;1;5
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100916.b\8270AP.m
Meth Date : 17-Sep-2010 16:15 hvan Quant Type: ISTD
Cal Date : 16-SEP-2010 16:48 Cal File: 6.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

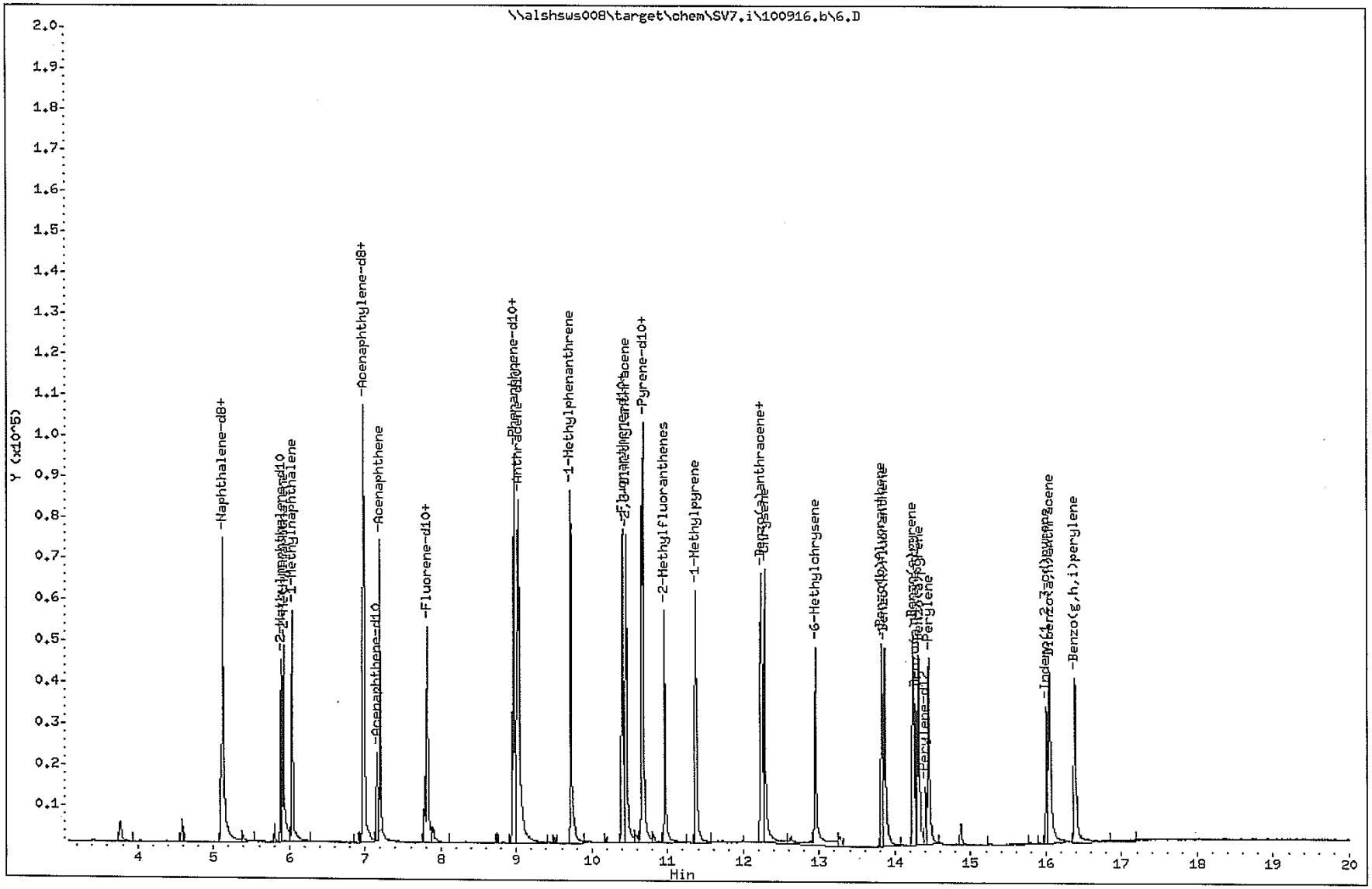
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Naphthalene-d8	136	5.099	5.099	(1.000)	34530	0.40000	
	2 Naphthalene	128	5.121	5.122	(1.004)	105228	1.00000	0.9929
	8 2-Methylnaphthalene-d10	152	5.889	5.889	(1.155)	48685	1.00000	0.9242
	3 2-Methylnaphthalene	142	5.926	5.926	(1.162)	56960	1.00000	1.021
	4 1-Methylnaphthalene	142	6.038	6.038	(1.184)	66163	1.00000	0.9591
$	12 Acenaphthylene-d8	160	6.969	6.969	(0.974)	80974	1.00000	1.024
	10 Acenaphthylene	152	6.984	6.984	(0.976)	94206	1.00000	1.026
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	17020	0.40000	
	11 Acenaphthene	153	7.193	7.193	(1.005)	60284	1.00000	1.025
*	13 Fluorene-d10	176	7.789	7.789	(1.000)	21937	0.40000	
	14 Fluorene	166	7.819	7.819	(1.004)	66493	1.00000	0.9800
*	18 Phenanthrene-d10	188	8.945	8.945	(1.000)	30426	0.40000	
	19 Phenanthrene	178	8.971	8.972	(1.003)	91181	1.00000	1.006
$	27 Anthracene-d10	188	9.011	9.011	(1.007)	88512	1.00000	0.8720
	20 Anthracene	178	9.037	9.037	(1.010)	103506	1.00000	1.027
	26 1-Methylphenanthrene	192	9.721	9.728	(1.087)	78608	1.00000	1.004
*	28 Fluoranthene-d10	212	10.391	10.391	(1.000)	34005	0.40000	
	29 Fluoranthene	202	10.415	10.416	(1.002)	95920	1.00000	0.9693
	25 2,3-Dimethylanthracene	206	10.457	10.457	(1.169)	60297	1.00000	1.006
$	36 Pyrene-d10	212	10.662	10.662	(1.026)	90250	1.00000	0.9995
	30 Pyrene	202	10.679	10.679	(1.028)	113765	1.00000	1.023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	34 2-Methylfluoranthenes	216	10.966	10.966	(1.055)	64249	1.00000	1.012
	35 1-Methylpyrene	216	11.369	11.378	(1.094)	71592	1.00000	1.033
	38 Benzo(a)anthracene	228	12.233	12.233	(0.999)	76527	1.00000	1.041
*	37 Chrysene-d12	240	12.249	12.249	(1.000)	28553	0.40000	
	39 Chrysene	228	12.282	12.283	(1.003)	108229	1.00000	0.9683
	44 6-Methylchrysene	242	12.949	12.957	(1.057)	63266	1.00000	1.000
	47 Benzo(b)fluoranthene	252	13.824	13.824	(0.960)	73141	1.00000	0.9864
	48 Benzo(k)fluoranthene	252	13.863	13.868	(0.962)	99687	1.00000	0.9539
	49 Benzo(e)pyrene	252	14.240	14.240	(0.988)	79838	1.00000	0.9640
$	45 Benzo(a)pyrene-d12	264	14.279	14.279	(1.166)	50552	1.00000	1.033
	50 Benzo(a)pyrene	252	14.318	14.318	(0.994)	79279	1.00000	0.9931
*	46 Perylene-d12	264	14.406	14.406	(1.000)	23080	0.40000	
	51 Perylene	252	14.446	14.446	(1.003)	84212	1.00000	0.9672
	52 Indeno(1,2,3-cd)pyrene	276	16.006	16.011	(1.111)	58400	1.00000	0.8756
	53 Dibenzo(a,h)anthracene	278	16.051	16.051	(1.114)	68709	1.00000	0.9729
	54 Benzo(g,h,i)perylene	276	16.383	16.388	(1.137)	76497	1.00000	0.9612

Data File: \\alshsws008\target\chem\SV7.i\100916.b\6.D
Date : 16-SEP-2010 16:48
Client ID: ICAL5
Sample Info: ICAL5;ICAL5;1;5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100916.b\7.D
Lab Smp Id: ICAL6 Client Smp ID: ICAL6
Inj Date : 16-SEP-2010 17:12 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ICAL6;ICAL6;1;6
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100916.b\8270AP.m
Meth Date : 17-Sep-2010 16:15 hvan Quant Type: ISTD
Cal Date : 16-SEP-2010 17:12 Cal File: 7.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Naphthalene-d8	136	5.099	5.099	(1.000)	33639	0.40000	
	2 Naphthalene	128	5.121	5.122	(1.004)	203244	2.00000	1.968
	8 2-Methylnaphthalene-d10	152	5.888	5.889	(1.155)	97248	2.00000	1.895
	3 2-Methylnaphthalene	142	5.926	5.926	(1.162)	112219	2.00000	2.065(A)
	4 1-Methylnaphthalene	142	6.037	6.038	(1.184)	125558	2.00000	1.868
$	12 Acenaphthylene-d8	160	6.969	6.969	(0.974)	154974	2.00000	1.903
	10 Acenaphthylene	152	6.984	6.984	(0.976)	182556	2.00000	1.931
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	17527	0.40000	
	11 Acenaphthene	153	7.193	7.193	(1.005)	114866	2.00000	1.897
*	13 Fluorene-d10	176	7.789	7.789	(1.000)	22050	0.40000	
	14 Fluorene	166	7.818	7.819	(1.004)	131123	2.00000	1.935
*	18 Phenanthrene-d10	188	8.945	8.945	(1.000)	30792	0.40000	
	19 Phenanthrene	178	8.971	8.972	(1.003)	180718	2.00000	1.970
$	27 Anthracene-d10	188	9.011	9.011	(1.007)	168718	2.00000	1.642
	20 Anthracene	178	9.030	9.037	(1.010)	198500	2.00000	1.918
	26 1-Methylphenanthrene	192	9.721	9.728	(1.087)	155980	2.00000	1.968
*	28 Fluoranthene-d10	212	10.391	10.391	(1.000)	33779	0.40000	
	29 Fluoranthene	202	10.407	10.416	(1.002)	191609	2.00000	1.949
	25 2,3-Dimethylanthracene	206	10.456	10.457	(1.169)	120596	2.00000	1.988
$	36 Pyrene-d10	212	10.662	10.662	(1.026)	178014	2.00000	1.985
	30 Pyrene	202	10.679	10.679	(1.028)	222261	2.00000	2.012(A)

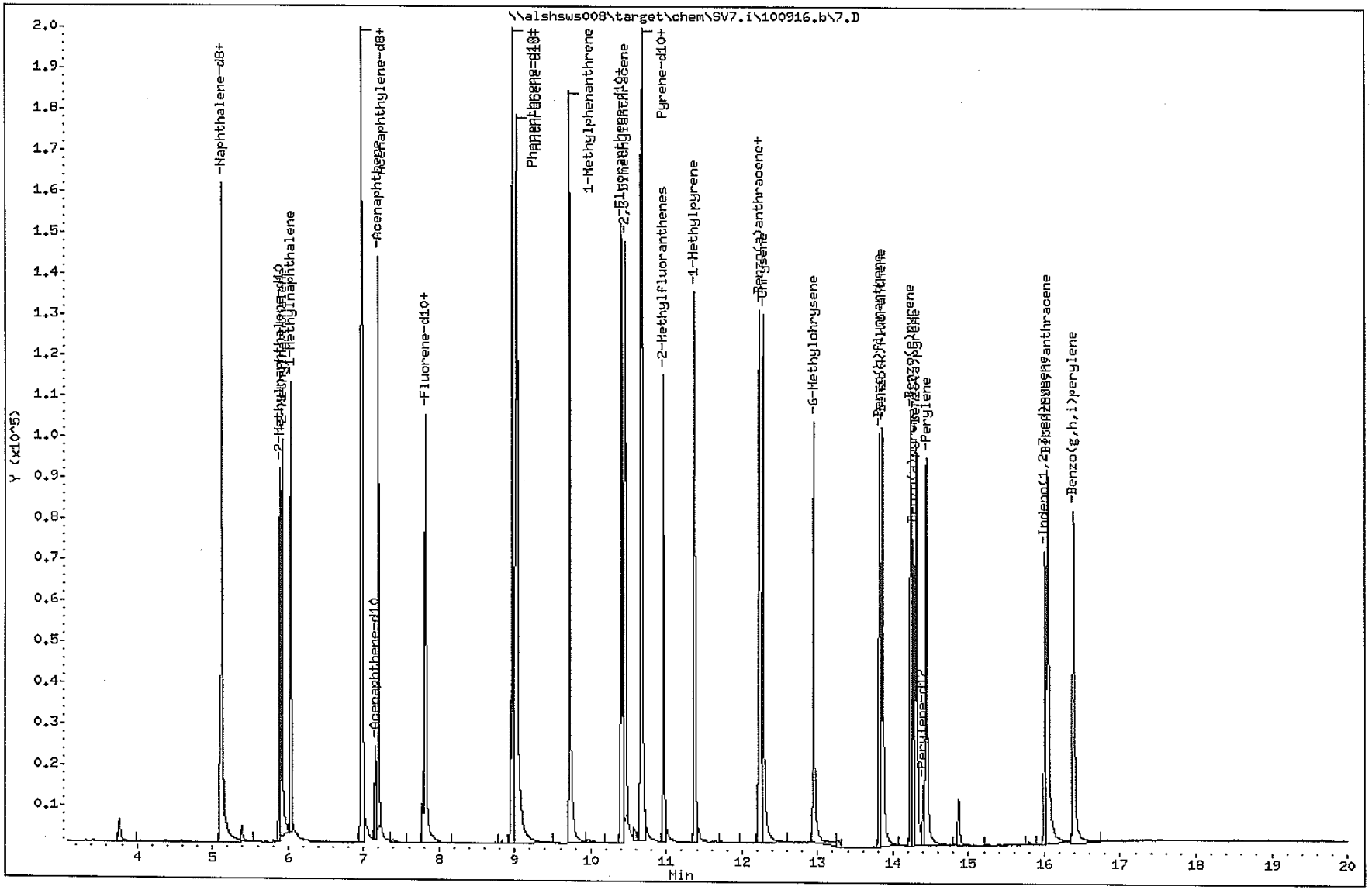
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	34 2-Methylfluoranthenes	216	10.966	10.966	(1.055)	126923	2.00000	2.014 (A)
	35 1-Methylpyrene	216	11.369	11.378	(1.094)	139360	2.00000	2.024 (A)
	38 Benzo(a)anthracene	228	12.233	12.233	(0.999)	157104	2.00000	2.116 (A)
*	37 Chrysene-d12	240	12.241	12.249	(1.000)	28842	0.40000	
	39 Chrysene	228	12.282	12.283	(1.003)	203039	2.00000	1.798
	44 6-Methylchrysene	242	12.948	12.957	(1.058)	125898	2.00000	1.970
	47 Benzo(b)fluoranthene	252	13.824	13.824	(0.960)	150658	2.00000	1.904
	48 Benzo(k)fluoranthene	252	13.863	13.868	(0.962)	189993	2.00000	1.704
	49 Benzo(e)pyrene	252	14.235	14.240	(0.988)	159122	2.00000	1.800
$	45 Benzo(a)pyrene-d12	264	14.279	14.279	(1.166)	102697	2.00000	2.077 (A)
	50 Benzo(a)pyrene	252	14.313	14.318	(0.994)	159087	2.00000	1.868
*	46 Perylene-d12	264	14.406	14.406	(1.000)	24628	0.40000	
	51 Perylene	252	14.446	14.446	(1.003)	166205	2.00000	1.789
	52 Indeno(1,2,3-cd)pyrene	276	16.006	16.011	(1.111)	121945	2.00000	1.713
	53 Dibenzo(a,h)anthracene	278	16.046	16.051	(1.114)	142594	2.00000	1.892
	54 Benzo(g,h,i)perylene	276	16.383	16.388	(1.137)	154166	2.00000	1.815

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\SV7.i\100916.b\7.D
Date : 16-SEP-2010 17:12
Client ID: ICAL6
Sample Info: ICAL6;ICAL6;1;6
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS,NoUser
Column diameter: 0.28



ALS Laboratory Group

GC/MS SV #7 Instrument Run Log

Logbook # 23101

Sequence # 100917 | Method: SOW-EPA-R4 | SOP #: MSSV-004

RPM: MW | IS ID: 22717-12-05 | CAL STD ID: 22717-13-02 | DFTPP ID: 22717-30-07

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
1	DFTPP	50ng					9/17/10	1803	✓	MW	
2	CCV	0.4 ppm						1828	✓		
3	1009537	ALCSSI-	100917	SOIL 30g	1.0	1		1959	✓		# 46107
4	543	ALCSDSI-		~~15.02g~~	30g 1.0			2023	✓		
5	↓	ABLKSI-	↓	15.07g	30g 1.0			2048	✓		
6	1009537	01D		15.01g	15.02g 0.5			2112	✓		
7	|	03D		15.03g	15.07g			2137	✓		
8	|	06D		~~15.02g~~	MW 15.01g			2201	✓		
9	|	08D		15.03g	9/24/10 15.03g			2226	✓		
10	|	10D		15.02g	0.5			2250	✓		
11	↓	12D		30.01g	1.0			2315	✓		
12	1009543	01C		15.01g	0.5		↓	2339	✓		
13	|	03C		15g	↓		9/18/10	0004	✓		
14	|	06C		30.01g	1.0			0028	✓		
15	|	09C		30.03g	↓			0053	✓		
16	↓	12C	↓	15.02g	0.5	↓		0117	✓		
17	CCV	0.4 ppm						0142	✓		
18	1009537	ABLKWI-	100917	WATER 1000ml	1.0	1		0207	✓		# 46108
19	95543	ALCSWI-	|	|	|	|		0231	✓		
20	↓	ALCSDWI-	↓	↓	↓	↓		0256	✓		
21	1009537	02F						0320	✓		
22	|	04F						0345	✓		
23	|	05F						0409	✓		
24	|	09F						0434	✓		
25	↓	11F	↓	↓	↓	↓	↓	0458	✓	↓	

IS1 Naphthalene-d8:	50108 / 64176	IS2 Acenapthene-d10:	25096 / 32053
IS3 Fluorene-d10:	30943 / 39471	IS4 Phenanthrene-d10:	43739 / 56624
IS5 Fluoranthene-d10:	50114 / 64492	IS6 Chrysene-d12:	41376 / 53567
IS7 Perylene-d12:	31313 / 41274		

#2 / #17

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GC/MS SV #7 Instrument Run Log

Logbook # 23101

Sequence # 100917 (CONT'D) | Method: SOW-EPA-R4 | SOP #: MSSV-004

RPM: [illegible] | IS ID: 22717-12-05 | CAL STD ID: 22717-13-02 | DFTPP ID: 22717-30-07

File #		WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
26	1	1009537	13F	WATER	1000 mL	1.0	1	9/18/10	0523	✓	[illegible]	
27	2	"	14F	"	"	"	"	"	0547	✓	"	
28	3	1009543	04F	"	"	"	"	"	0612	✓	"	
29	4	"	05F	"	"	"	"	"	0636	✓	"	
30	5	"	07F	"	"	"	"	"	0701	✓	"	
31	6	"	08F	"	"	"	"	"	0726	✓	"	
32	7	CCV	0.4 ppm					"	0750	✓	"	
	8											
	9											
	10											
	11											
	12											
	13											
	14											
	15											
	16											
	17											
	18											
	19											
	20											
	21											
	22											
	23											
	24	[illegible]										
	25	9/19/10										[illegible] 9/19/10

IS1 Naphthalene-d8:	64226	IS2 Acenapthene-d10:	31743
IS3 Fluorene-d10:	38735	IS4 Phenanthrene-d10:	55699
IS5 Fluoranthene-d10:	64807	IS6 Chrysene-d12:	53141
IS7 Perylene-d12:	39965		

#32

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FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV7 Calibration Date: 09/17/10 Time: 1828

Lab File ID: 2 Init. Calib. Date(s): 09/16/10 09/16/10

Init. Calib. Times: 1509 1712

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	$\overline{RRF}$	RRF0.4	MIN RRF	%D	MAX %D
Naphthalene	1.228	1.189	0.7	3.2	30.0
2-Methylnaphthalene	0.646	0.601	0.4	7.0	30.0
1-Methylnaphthalene	0.799	0.798	0.01	0.1	30.0
2-Methylnaphthalene-d10	0.610	0.600	0.01	1.6	30.0
Acenaphthylene	2.158	2.154	0.9	0.2	30.0
Acenaphthene	1.382	1.364	0.9	1.3	30.0
Fluorene	1.229	1.264	0.9	2.8	30.0
Phenanthrene	1.192	1.172	0.7	1.7	30.0
Anthracene	1.344	1.346	0.7	0.1	30.0
2,3-Dimethylanthracene	0.788	0.785	0.01	0.4	30.0
1-Methylphenanthrene	1.029	1.039	0.01	1.0	30.0
Fluoranthene	1.164	1.236	0.6	6.2	30.0
Pyrene	1.308	1.270	0.6	2.9	30.0
2-Methylfluoranthenes	0.746	0.720	0.01	3.5	30.0
1-Methylpyrene	0.815	0.811	0.01	0.5	30.0
Benzo(a)anthracene	1.030	1.024	0.8	0.6	30.0
Chrysene	1.566	1.450	0.7	7.4	30.0
6-Methylchrysene	0.886	0.854	0.01	3.6	30.0
Benzo(b)fluoranthene	1.285	1.222	0.7	4.9	30.0
Benzo(k)fluoranthene	1.811	1.809	0.7	0.1	30.0
Benzo(e)pyrene	1.435	1.374	0.01	4.2	30.0
Benzo(a)pyrene	1.384	1.351	0.7	2.4	30.0
Perylene	1.509	1.493	0.01	1.1	30.0
Indeno(1,2,3-cd)pyrene	1.009	0.978	0.5	3.1	30.0
Dibenzo(a,h)anthracene	1.224	1.182	0.4	3.4	30.0
Benzo(g,h,i)perylene	1.379	1.328	0.5	3.7	30.0
Acenaphthylene-d8	1.858	1.869	0.01	0.6	30.0
Anthracene-d10	1.258	1.207	0.01	4.0	30.0
Pyrene-d10	1.062	1.010	0.01	4.9	30.0
Benzo(a)pyrene-d12	0.686	0.658	0.01	4.1	30.0

FORM VII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 2 Date Analyzed: 09/17/10

Instrument ID: SV7 Time Analyzed: 1828

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	50108	5.10	25096	7.16	30943	7.78
	UPPER LIMIT	100216	5.60	50192	7.66	61886	8.28
	LOWER LIMIT	25054	4.60	12548	6.66	15472	7.28
	CLIENT SAMPLE NO.						
01	ALCSS1-10091	42643	5.10	24757	7.16	30948	7.79
02	ALCSDS1-1009	48146	5.10	24703	7.16	30825	7.79
03	ABLKS1-10091	57268	5.10	29480	7.16	36913	7.79
04	1009543-01C	47938	5.09	24843	7.16	31888	7.78
05	1009543-03C	44386	5.10	22406	7.16	29245	7.78
06	1009543-06C	48743	5.10	24913	7.16	32033	7.78
07	1009543-09C	49183	5.09	25201	7.16	32208	7.78
08	1009543-12C	43186	5.09	22169	7.16	29429	7.78
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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 internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 2 Date Analyzed: 09/17/10

Instrument ID: SV7 Time Analyzed: 1828

		IS4 (PHN) AREA #	RT #	IS5 AREA #	RT #	IS6 (CRY) AREA #	RT #
	12 HOUR STD	43739	8.95	50114	10.39	41376	12.25
	UPPER LIMIT	87478	9.45	100228	10.89	82752	12.75
	LOWER LIMIT	21870	8.45	25057	9.89	20688	11.75
	CLIENT SAMPLE NO.						
01	ALCSS1-10091	34209	8.95	46281	10.40	37122	12.25
02	ALCSDS1-1009	37010	8.95	47491	10.40	37034	12.25
03	ABLKS1-10091	43850	8.95	56811	10.39	44526	12.25
04	1009543-01C	46420	8.94	51624	10.39	40585	12.25
05	1009543-03C	41536	8.94	47056	10.39	37245	12.25
06	1009543-06C	44889	8.94	52696	10.39	42150	12.25
07	1009543-09C	45113	8.94	50498	10.39	41729	12.25
08	1009543-12C	40730	8.94	45139	10.39	36768	12.25
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 = Fluoranthene-d10
IS6 (CRY) = Chrysene-d12

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 internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 2 Date Analyzed: 09/17/10

Instrument ID: SV7 Time Analyzed: 1828

		IS7(PRY) AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	31313		14.41									
	UPPER LIMIT	62626		14.91									
	LOWER LIMIT	15657		13.91									
	CLIENT SAMPLE NO.												
01	ALCSS1-10091	28523		14.41									
02	ALCSDS1-1009	28450		14.41									
03	ABLKS1-10091	31567		14.41									
04	1009543-01C	31853		14.40									
05	1009543-03C	29920		14.40									
06	1009543-06C	33322		14.40									
07	1009543-09C	31661		14.40									
08	1009543-12C	28585		14.40									
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS7 (PRY) = Perylene-d12

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 internal standard area values with an asterisk.
* Values outside of QC limits.

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\2.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 17-SEP-2010 18:28 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : CCV;CCV;2
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.M
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

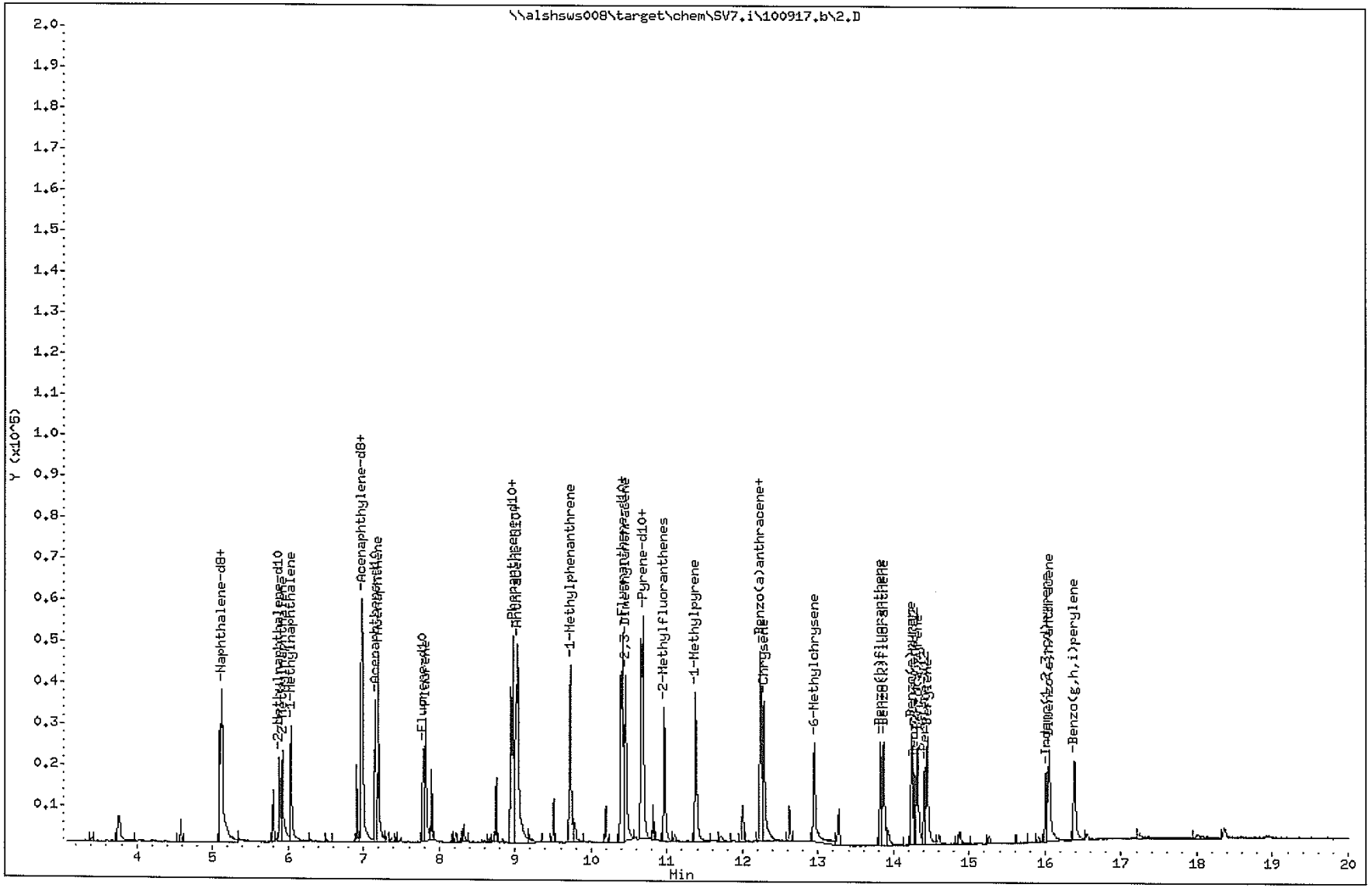
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	50108	0.40000	
	2 Naphthalene	128	5.125	5.124	(1.004)	59599	0.40000	0.3875
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.154)	30088	0.40000	0.3936
	3 2-Methylnaphthalene	142	5.925	5.925	(1.161)	30129	0.40000	0.3721
	4 1-Methylnaphthalene	142	6.038	6.038	(1.183)	39999	0.40000	0.3996
$	12 Acenaphthylene-d8	160	6.967	6.966	(0.974)	46909	0.40000	0.4023
	10 Acenaphthylene	152	6.982	6.981	(0.976)	54050	0.40000	0.3992
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	25096	0.40000	
	11 Acenaphthene	153	7.193	7.193	(1.005)	34220	0.40000	0.3947
*	13 Fluorene-d10	176	7.782	7.782	(1.000)	30943	0.40000	
	14 Fluorene	166	7.820	7.819	(1.005)	39105	0.40000	0.4112
*	18 Phenanthrene-d10	188	8.949	8.942	(1.000)	43739	0.40000	
	19 Phenanthrene	178	8.975	8.968	(1.003)	51243	0.40000	0.3933
$	27 Anthracene-d10	188	9.015	9.008	(1.007)	52811	0.40000	0.3837
	20 Anthracene	178	9.034	9.034	(1.010)	58878	0.40000	0.4004
	26 1-Methylphenanthrene	192	9.725	9.718	(1.087)	45438	0.40000	0.4037
*	28 Fluoranthene-d10	212	10.387	10.386	(1.000)	50114	0.40000	
	29 Fluoranthene	202	10.411	10.411	(1.002)	61918	0.40000	0.4246
	25 2,3-Dimethylanthracene	206	10.452	10.452	(1.168)	34323	0.40000	0.3983
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	50594	0.40000	0.3802
	30 Pyrene	202	10.683	10.682	(1.029)	63628	0.40000	0.3882
	34 2-Methylfluoranthenes	216	10.962	10.962	(1.055)	36108	0.40000	0.3861

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	35 1-Methylpyrene	216	11.374	11.373	(1.095)	40644	0.40000	0.3979
	38 Benzo(a)anthracene	228	12.237	12.228	(0.999)	42372	0.40000	0.3978
*	37 Chrysene-d12	240	12.245	12.245	(1.000)	41376	0.40000	
	39 Chrysene	228	12.286	12.278	(1.003)	60015	0.40000	0.3706
	44 6-Methylchrysene	242	12.953	12.952	(1.058)	35341	0.40000	0.3855
	47 Benzo(b)fluoranthene	252	13.825	13.825	(0.960)	38274	0.40000	0.3805
	48 Benzo(k)fluoranthene	252	13.869	13.864	(0.963)	56640	0.40000	0.3995
	49 Benzo(e)pyrene	252	14.241	14.236	(0.988)	43020	0.40000	0.3829
$	45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	27238	0.40000	0.3841
	50 Benzo(a)pyrene	252	14.319	14.314	(0.994)	42302	0.40000	0.3906
*	46 Perylene-d12	264	14.407	14.402	(1.000)	31313	0.40000	
	51 Perylene	252	14.446	14.441	(1.003)	46762	0.40000	0.3959
	52 Indeno(1,2,3-cd)pyrene	276	16.012	16.007	(1.111)	30627	0.40000	0.3876
	53 Dibenzo(a,h)anthracene	278	16.051	16.051	(1.114)	37011	0.40000	0.3863
	54 Benzo(g,h,i)perylene	276	16.384	16.384	(1.137)	41573	0.40000	0.3850

Data File: \\alshsws008\target\chem\SV7.i\100917.b\2.D
Date : 17-SEP-2010 18:28
Client ID: CCV
Sample Info: CCV;CCV;2
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\3.D
Lab Smp Id: ALCSS1-100917 Client Smp ID: ALCSS1-100917
Inj Date : 17-SEP-2010 19:59 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ALCSS1-100917;ALCSS1-100917;3;;LCS
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

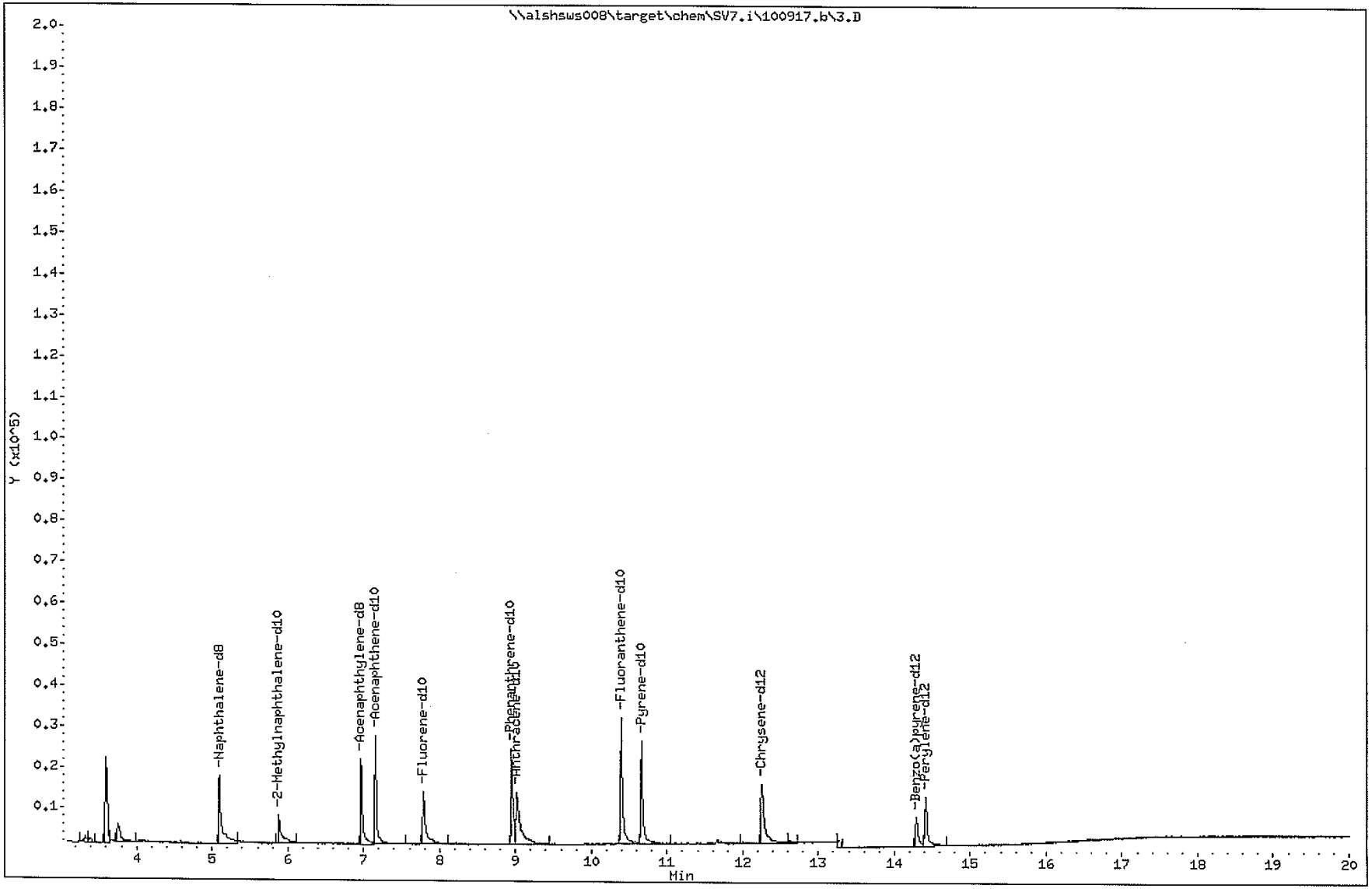
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	42643	0.40000	
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.154)	20001	0.30745	10.25
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	24757	0.40000	
$	12 Acenaphthylene-d8	160	6.967	6.966	(0.974)	31842	0.27683	9.228
*	13 Fluorene-d10	176	7.790	7.782	(1.000)	30948	0.40000	
*	18 Phenanthrene-d10	188	8.949	8.942	(1.000)	34209	0.40000	
$	27 Anthracene-d10	188	9.021	9.008	(1.008)	32065	0.29791	9.930
*	28 Fluoranthene-d10	212	10.395	10.386	(1.000)	46281	0.40000	
$	36 Pyrene-d10	212	10.666	10.658	(1.026)	36649	0.29821	9.940
*	37 Chrysene-d12	240	12.254	12.245	(1.000)	37122	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.290	14.280	(1.166)	15421	0.24237	8.079
*	46 Perylene-d12	264	14.412	14.402	(1.000)	28523	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\3.D
Date : 17-SEP-2010 19:59
Client ID: ALCSS1-100917
Sample Info: ALCSS1-100917;ALCSS1-100917;3;;LCS

Instrument: SV7.i

Operator: ALSHS.NoUser
Column diameter: 0.28

Column phase: RTX-5SIL MS



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\4.D
Lab Smp Id: ALCSDS1-100917 Client Smp ID: ALCSDS1-100917
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Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ALCSDS1-100917;ALCSDS1-100917;3;;LCSD
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

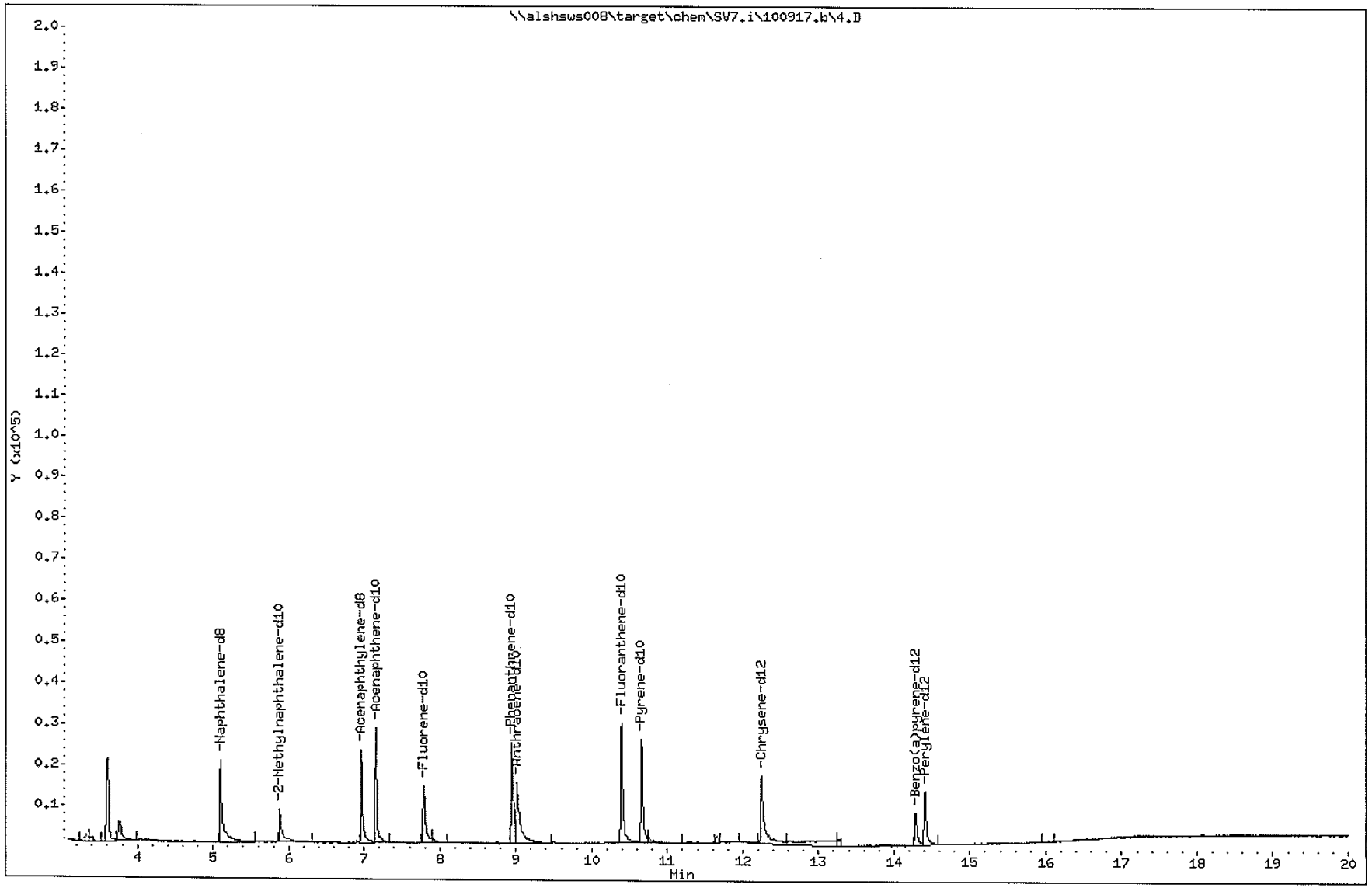
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	48146	0.40000	
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.154)	20084	0.27344	9.115
*	9 Acenaphthene-d10	162	7.156	7.155	(1.000)	24703	0.40000	
$	12 Acenaphthylene-d8	160	6.967	6.966	(0.974)	31735	0.27650	9.217
*	13 Fluorene-d10	176	7.790	7.782	(1.000)	30825	0.40000	
*	18 Phenanthrene-d10	188	8.949	8.942	(1.000)	37010	0.40000	
$	27 Anthracene-d10	188	9.015	9.008	(1.007)	40043	0.34387	11.46
*	28 Fluoranthene-d10	212	10.395	10.386	(1.000)	47491	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.025)	38178	0.30274	10.09
*	37 Chrysene-d12	240	12.254	12.245	(1.000)	37034	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.285	14.280	(1.166)	16431	0.25885	8.628
*	46 Perylene-d12	264	14.407	14.402	(1.000)	28450	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\4.D
Date : 17-SEP-2010 20:23
Client ID: ALCSDS1-100917
Sample Info: ALCSDS1-100917;ALCSDS1-100917;3;;LCSD

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28

Column phase: RTX-5SIL MS



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\5.D
Lab Smp Id: ABLKS1-100917 Client Smp ID: ABLKS1-100917
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Operator : ALSHS.NoUser Inst ID: SV7.i
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Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

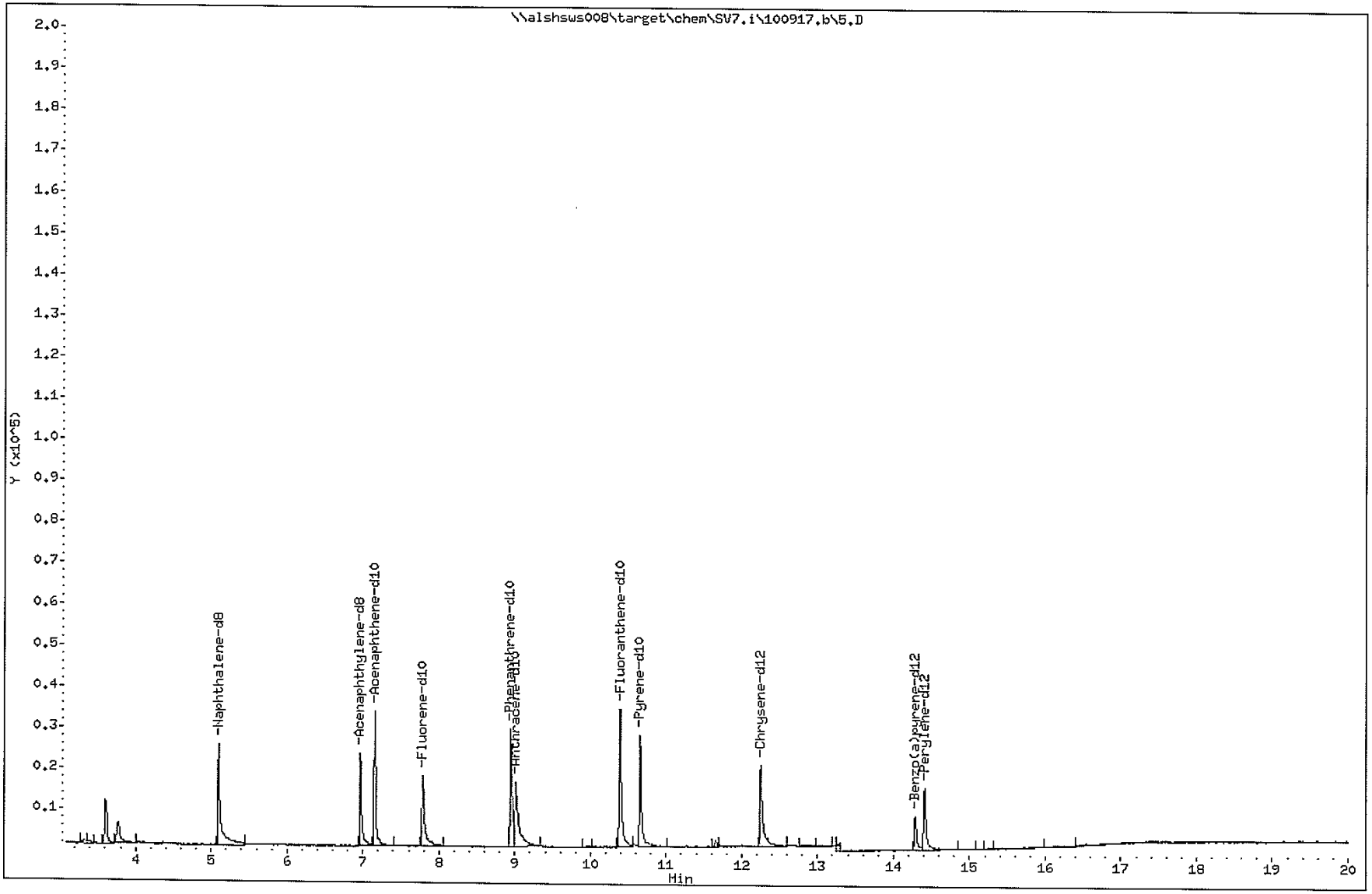
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	57268	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	29480	0.40000	
$	12 Acenaphthylene-d8	160	6.966	6.966	(0.974)	33829	0.24699	8.233
*	13 Fluorene-d10	176	7.789	7.782	(1.000)	36913	0.40000	
*	18 Phenanthrene-d10	188	8.949	8.942	(1.000)	43850	0.40000	
$	27 Anthracene-d10	188	9.014	9.008	(1.007)	43048	0.31201	10.40
*	28 Fluoranthene-d10	212	10.394	10.386	(1.000)	56811	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.025)	39009	0.25858	8.619
*	37 Chrysene-d12	240	12.253	12.245	(1.000)	44526	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.285	14.280	(1.166)	16921	0.22172	7.391
*	46 Perylene-d12	264	14.407	14.402	(1.000)	31567	0.40000	

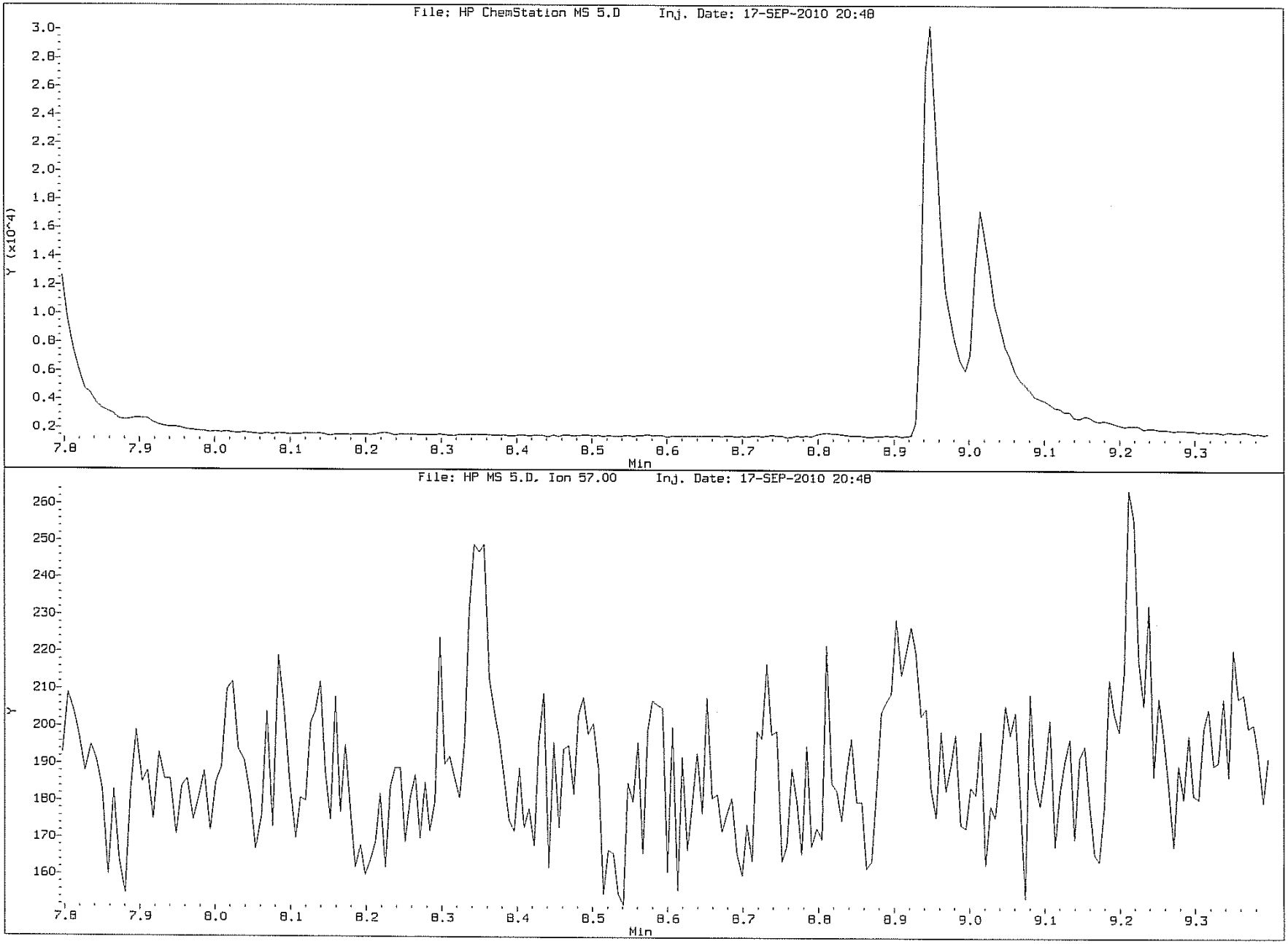
Data File: \\alshsws008\target\chem\SV7.i\100917.b\5.D
Date : 17-SEP-2010 20:48
Client ID: ABLKS1-100917
Sample Info: ABLKS1-100917;ABLKS1-100917;3;;BLANK

Instrument: SV7.i

Operator: ALSHS.NoUser
Column diameter: 0.28

Column phase: RTX-5SIL MS

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1.2
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0.8
0.6
0.4
0.2
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
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9.2
9.3
Min
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Y
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220
210
200
190
180
170
160
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7.9
8.0
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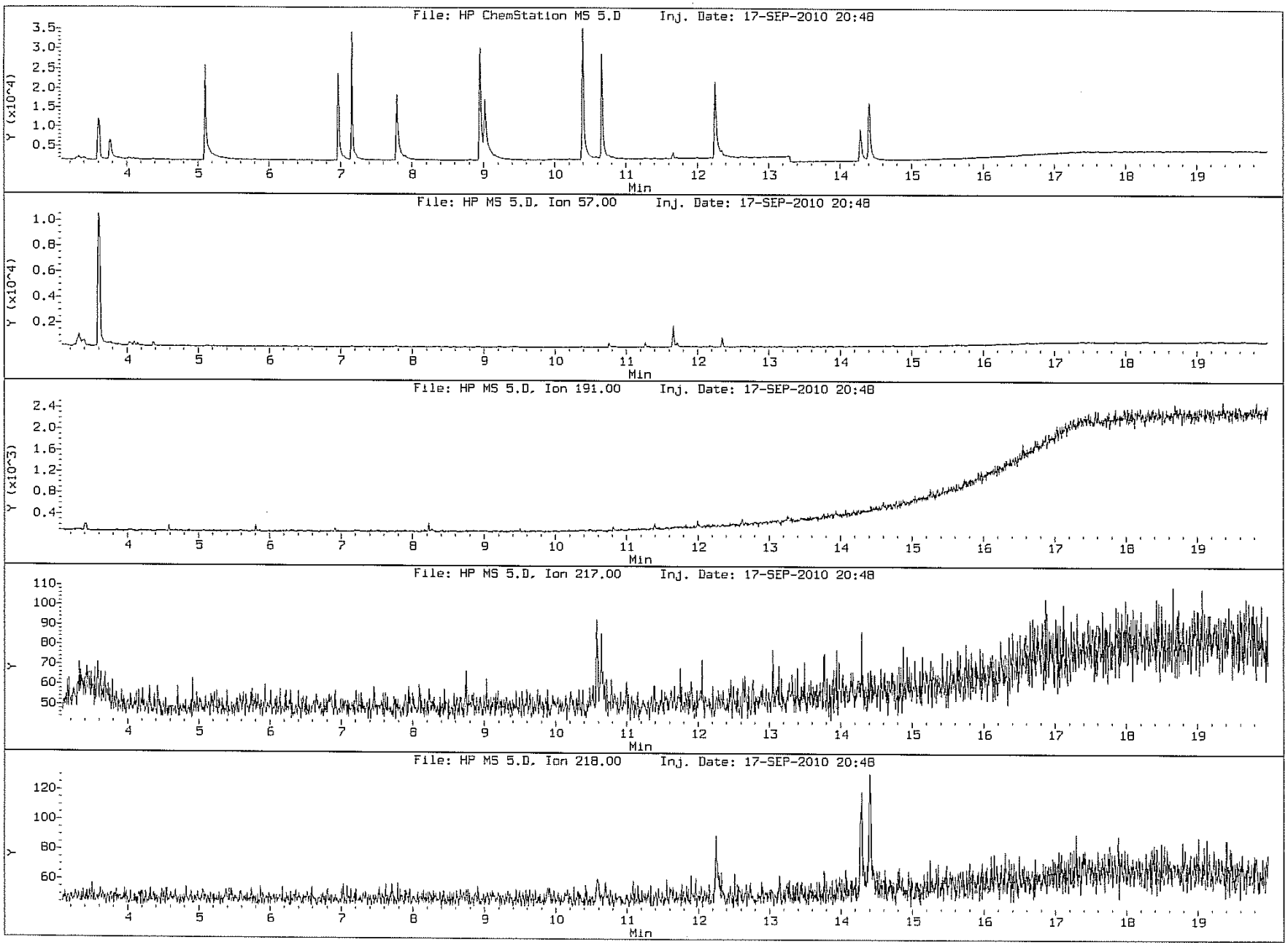
9.2
9.3
Min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Min
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Y (x10^3)
Min
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Y
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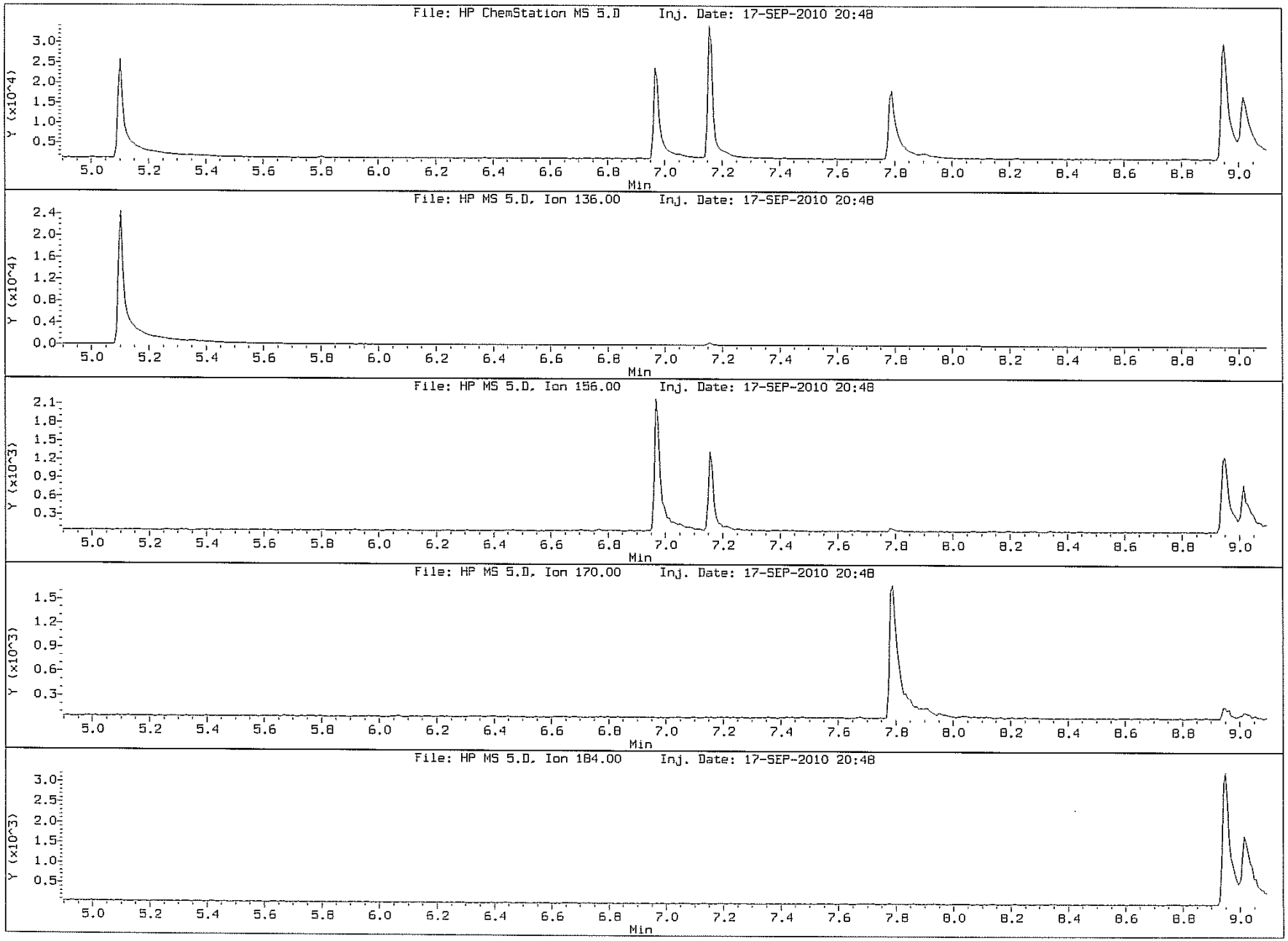
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Y (x10^4)
Min
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Y (x10^3)
Min
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Min
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Y (x10^3)
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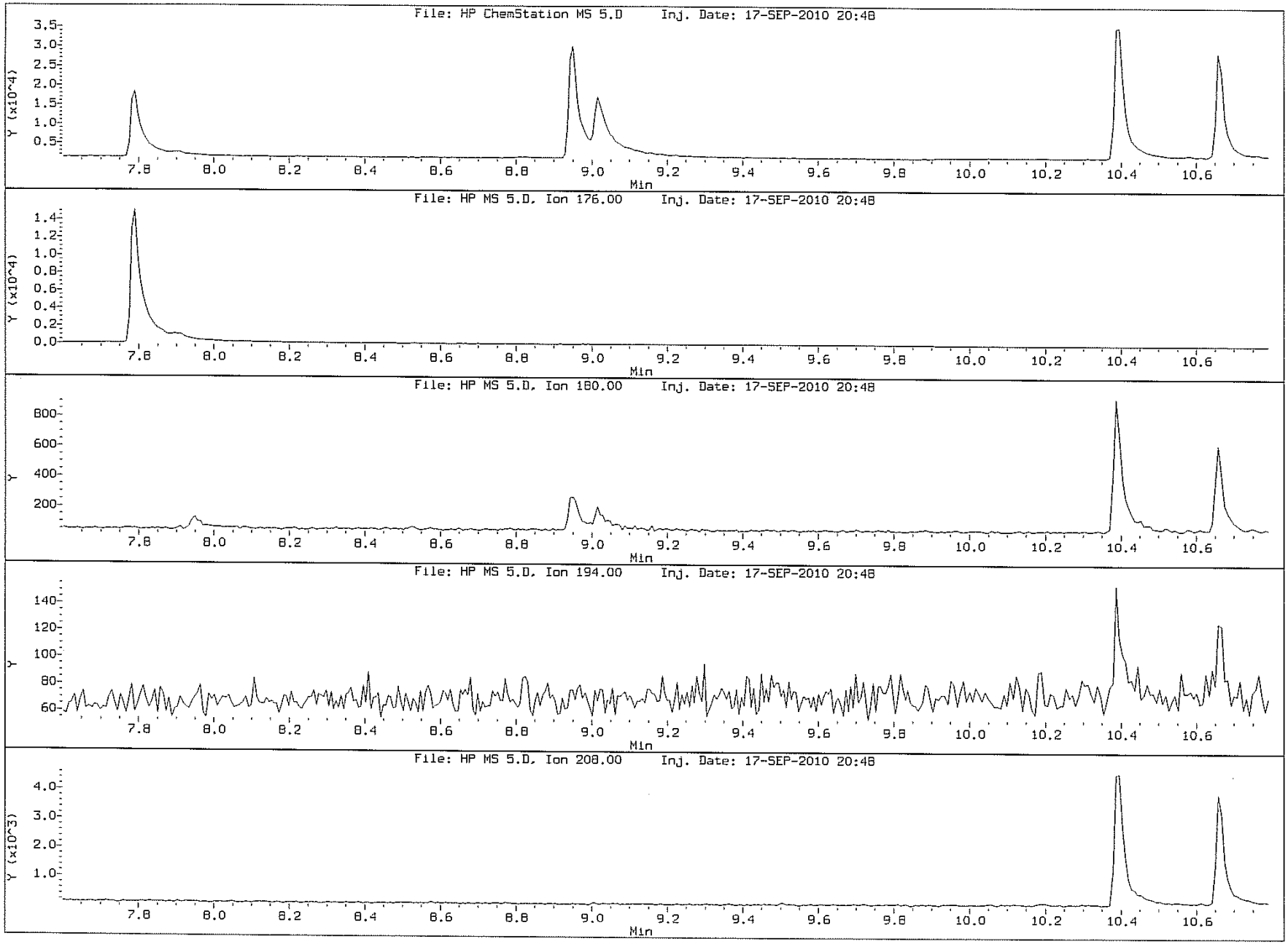
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1.0
0.5
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Min
File: HP MS 5.D, Ion 176.00 Inj. Date: 17-SEP-2010 20:48
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1.2
1.0
0.8
0.6
0.4
0.2
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 5.D, Ion 180.00 Inj. Date: 17-SEP-2010 20:48
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400
200
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 5.D, Ion 194.00 Inj. Date: 17-SEP-2010 20:48
Y
140
120
100
80
60
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 5.D, Ion 208.00 Inj. Date: 17-SEP-2010 20:48
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3.0
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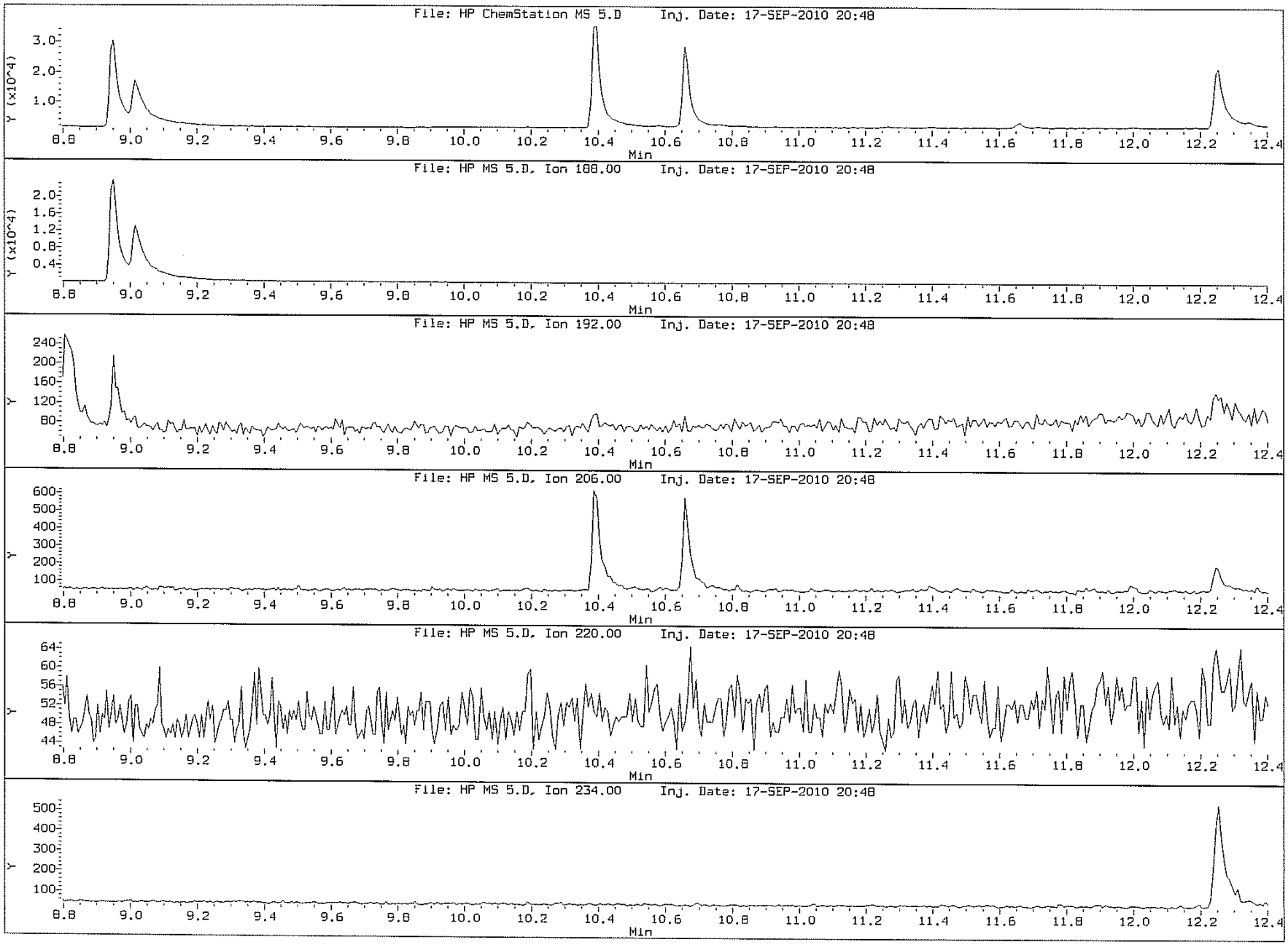
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1.0
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Min
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Min
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500
400
300
200
100
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Min
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56
52
48
44
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Min
File: HP MS 5.D, Ion 234.00 Inj. Date: 17-SEP-2010 20:48
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300
200
100
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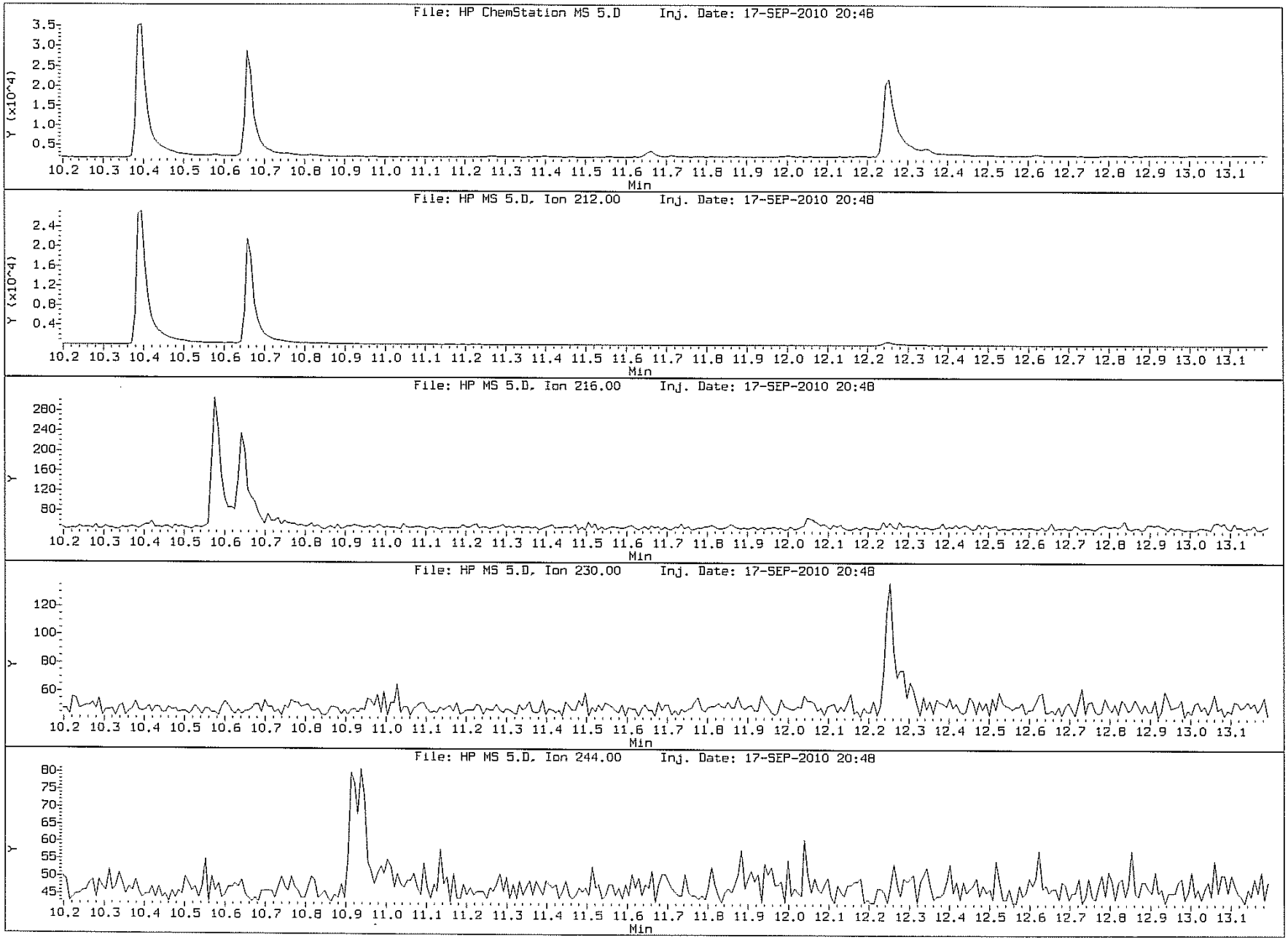
Min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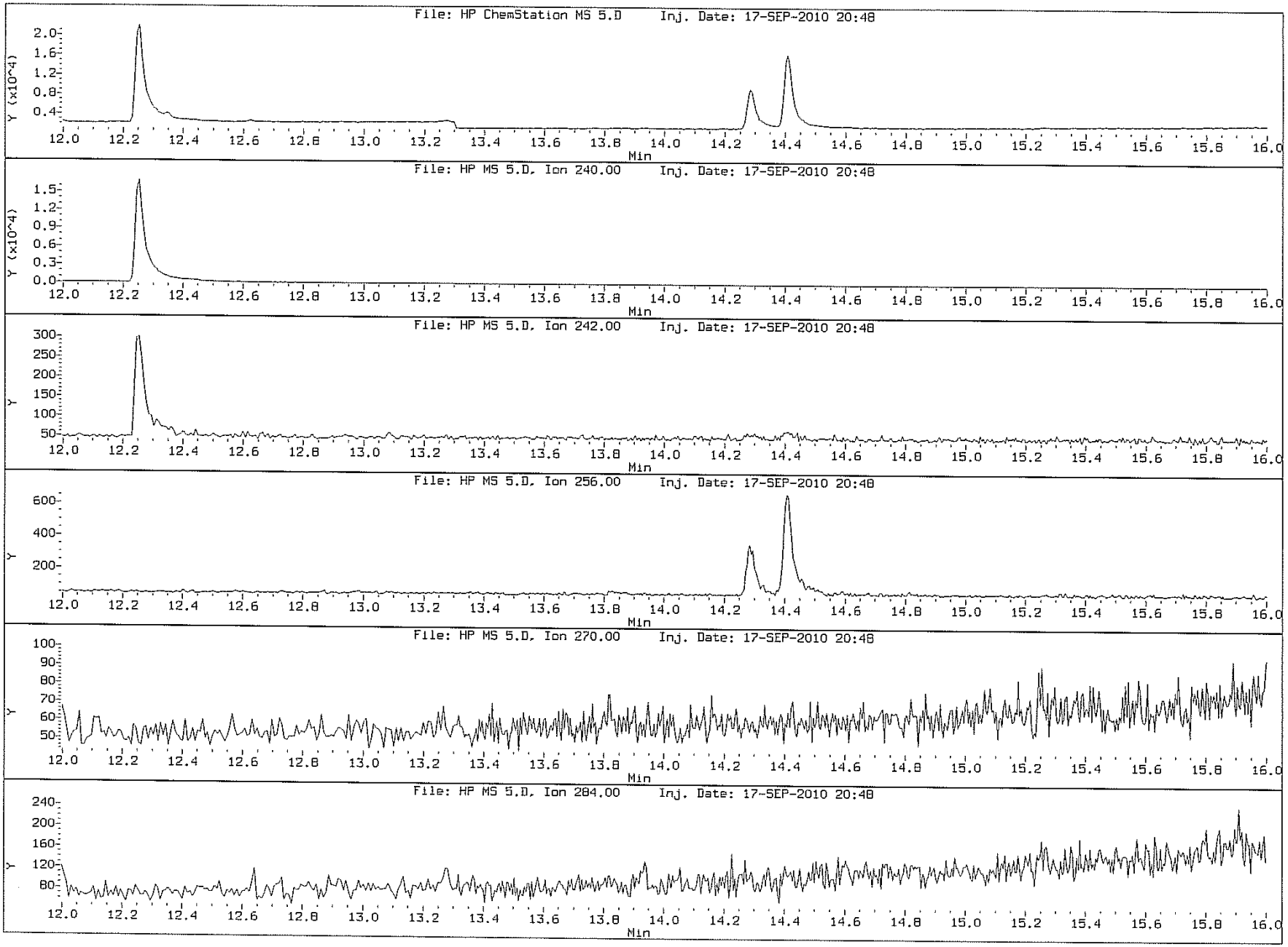
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Y
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Y
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\12.D
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Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : 1009543-01C;1009543-01C
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Ws	15.010	Weight of sample extracted (g)
M	70.800	% Moisture
Cpnd Variable		Local Compound Variable

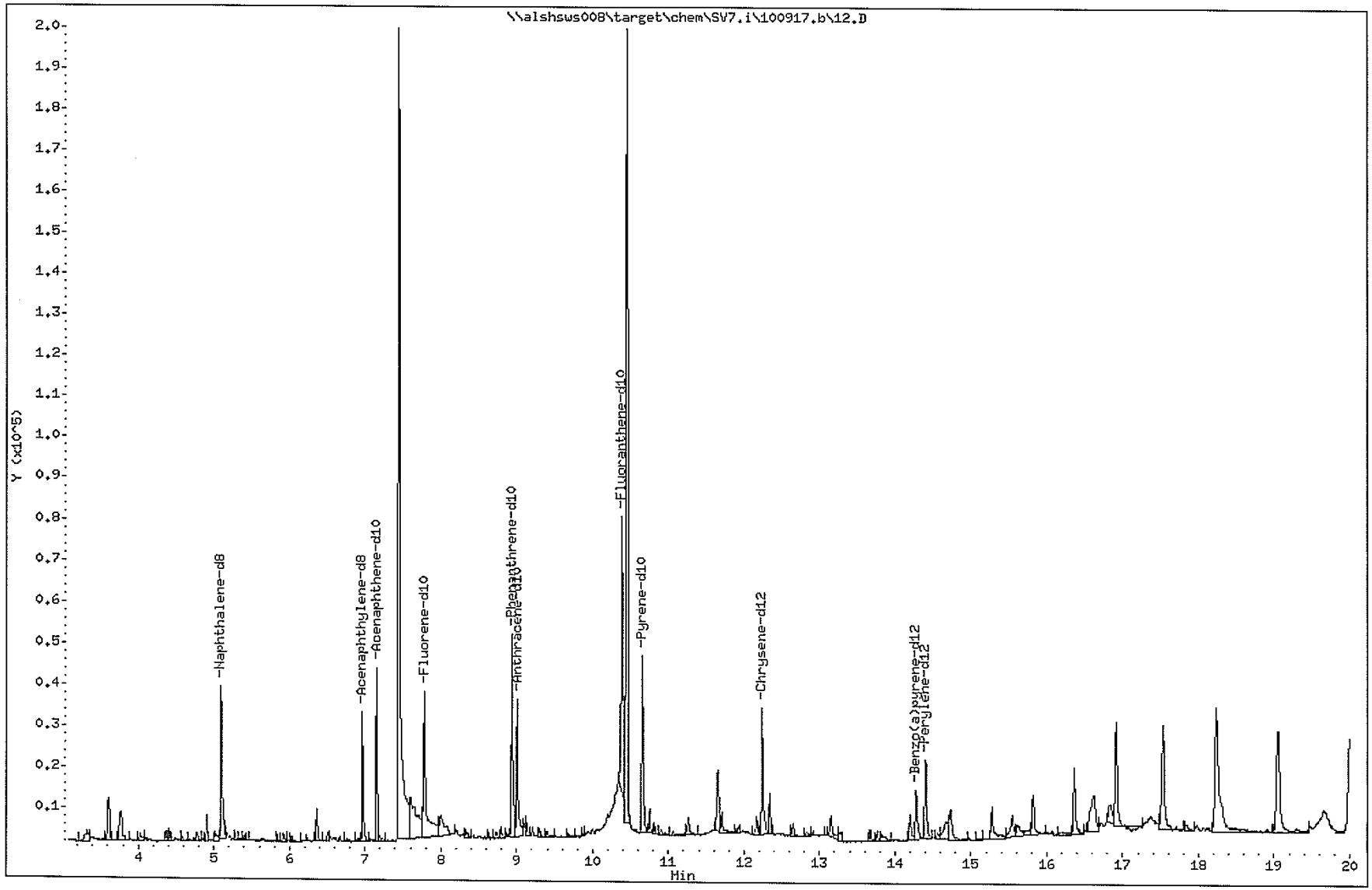
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	5.094	5.102	(1.000)	47938	0.40000	
* 9 Acenaphthene-d10	162	7.155	7.155	(1.000)	24843	0.40000	
$ 12 Acenaphthylene-d8	160	6.966	6.966	(0.974)	29029	0.25150	28.69
* 13 Fluorene-d10	176	7.782	7.782	(1.000)	31888	0.40000	
* 18 Phenanthrene-d10	188	8.942	8.942	(1.000)	46420	0.40000	
$ 27 Anthracene-d10	188	9.008	9.008	(1.007)	36408	0.24928	28.44
* 28 Fluoranthene-d10	212	10.386	10.386	(1.000)	51624	0.40000	
$ 36 Pyrene-d10	212	10.658	10.658	(1.026)	39910	0.29114	33.21
* 37 Chrysene-d12	240	12.245	12.245	(1.000)	40585	0.40000	
$ 45 Benzo(a)pyrene-d12	264	14.275	14.280	(1.166)	20990	0.30174	34.42
* 46 Perylene-d12	264	14.402	14.402	(1.000)	31853	0.40000	

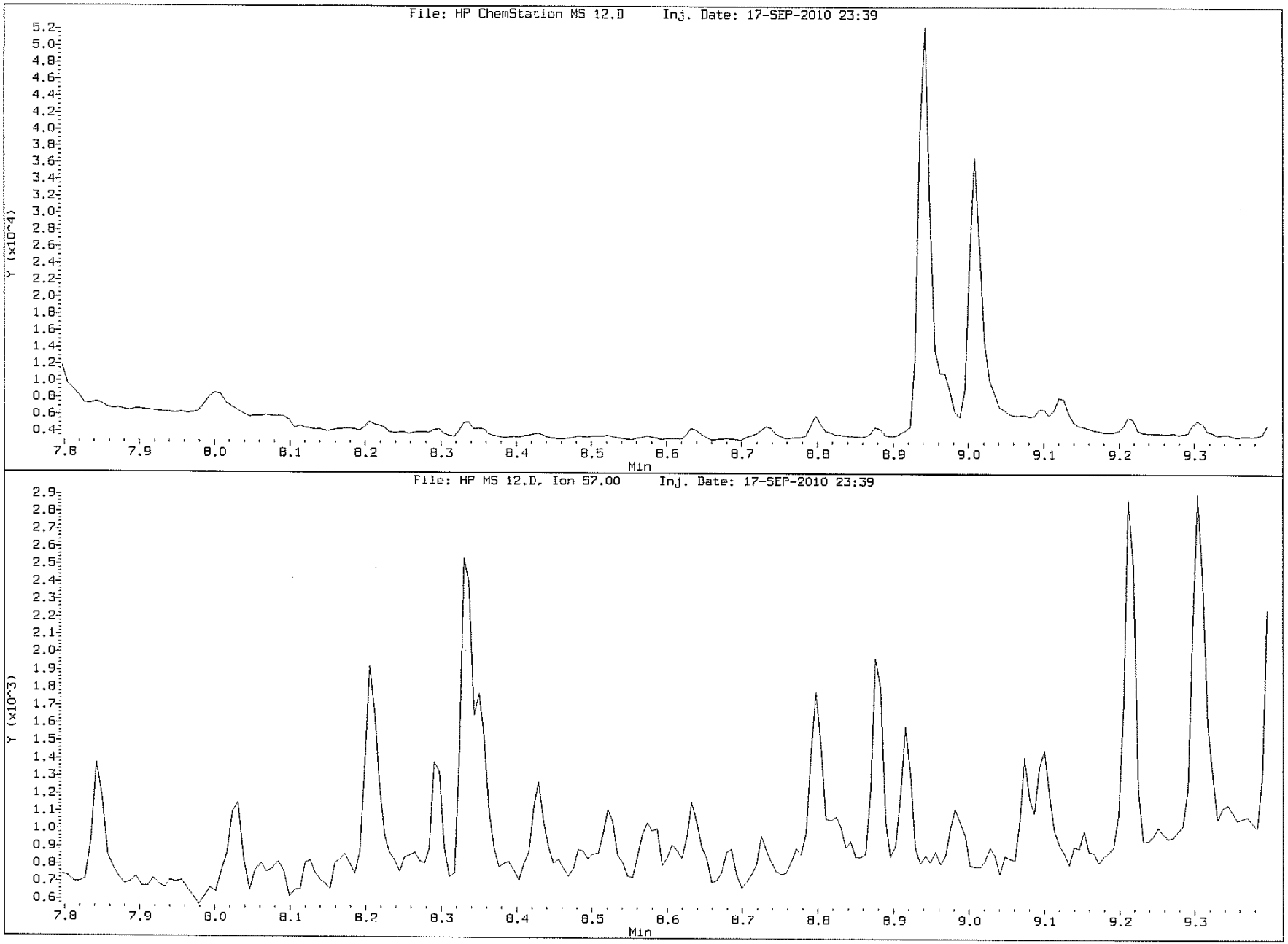
Data File: \\alshsws008\target\chem\SV7.i\100917.b\12.D
Date : 17-SEP-2010 23:39
Client ID: 1009543-01C
Sample Info: 1009543-01C;1009543-01C

Instrument: SV7.i

Operator: ALSHS.NoUser
Column diameter: 0.28

Column phase: RTX-5SIL MS

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4.8
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4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
File: HP MS 12.D, Ion 57.00 Inj. Date: 17-SEP-2010 23:39
Y (x10^3)
2.9
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2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
7.8
7.9
8.0
8.1
8.2
8.3
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8.5
8.6
8.7
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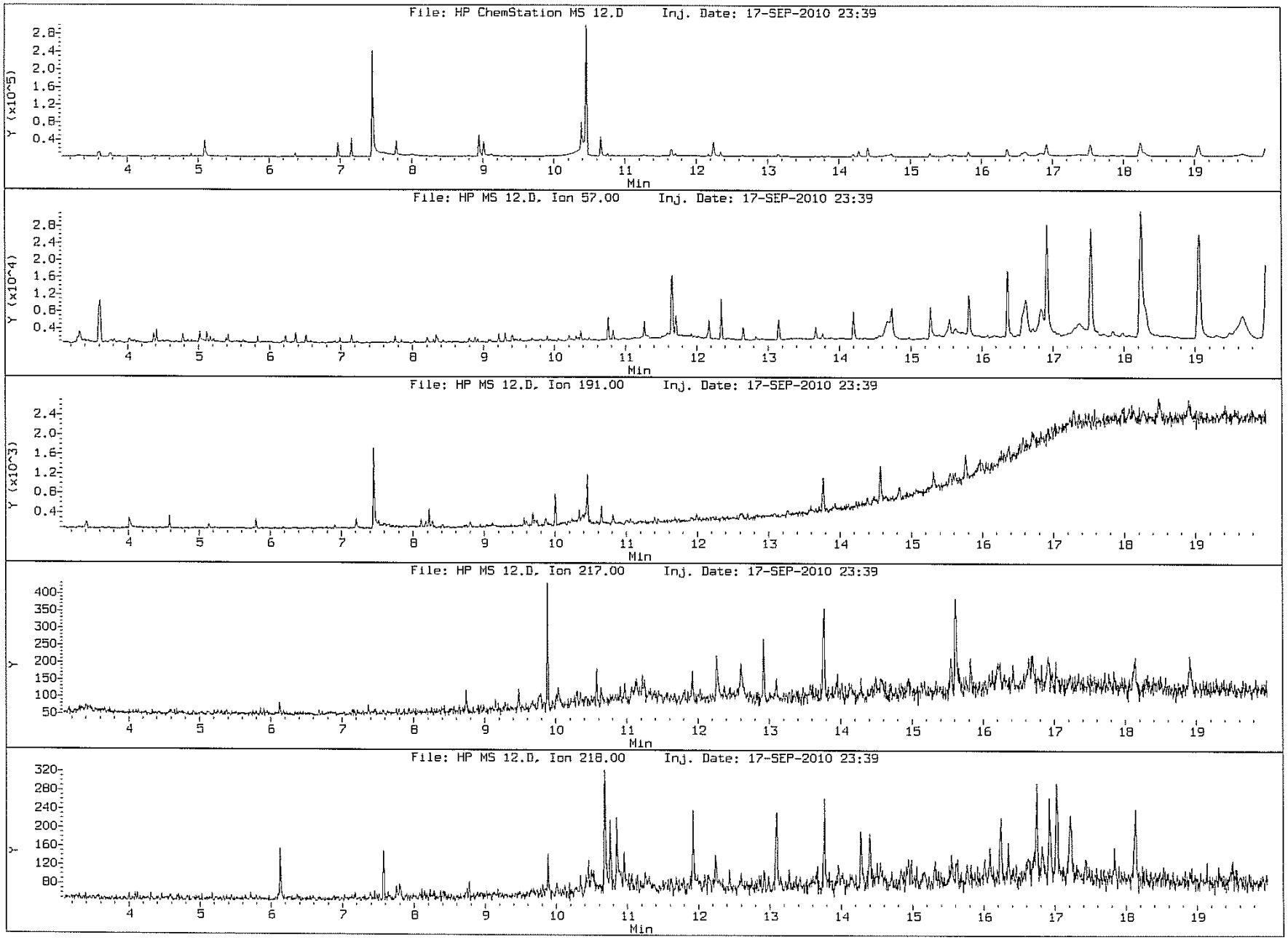
Min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2.4
2.0
1.6
1.2
0.8
0.4
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
File: HP MS 12.D, Ion 57.00 Inj. Date: 17-SEP-2010 23:39
Y (x10^4)
2.8
2.4
2.0
1.6
1.2
0.8
0.4
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
File: HP MS 12.D, Ion 191.00 Inj. Date: 17-SEP-2010 23:39
Y (x10^3)
2.4
2.0
1.6
1.2
0.8
0.4
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
File: HP MS 12.D, Ion 217.00 Inj. Date: 17-SEP-2010 23:39
Y
400
350
300
250
200
150
100
50
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
File: HP MS 12.D, Ion 218.00 Inj. Date: 17-SEP-2010 23:39
Y
320
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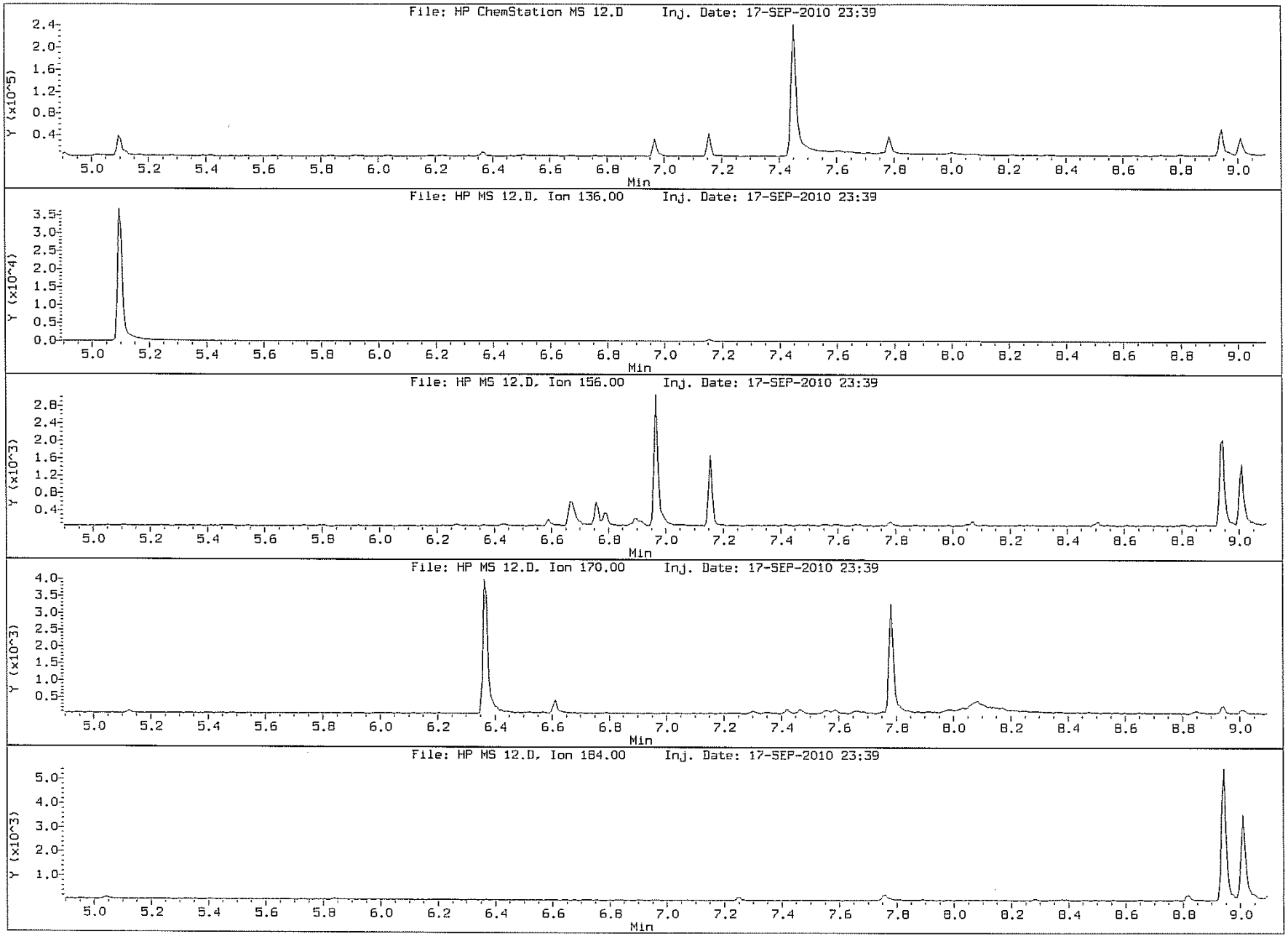
240
200
160
120
80
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min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Min
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Y (x10^3)
Min
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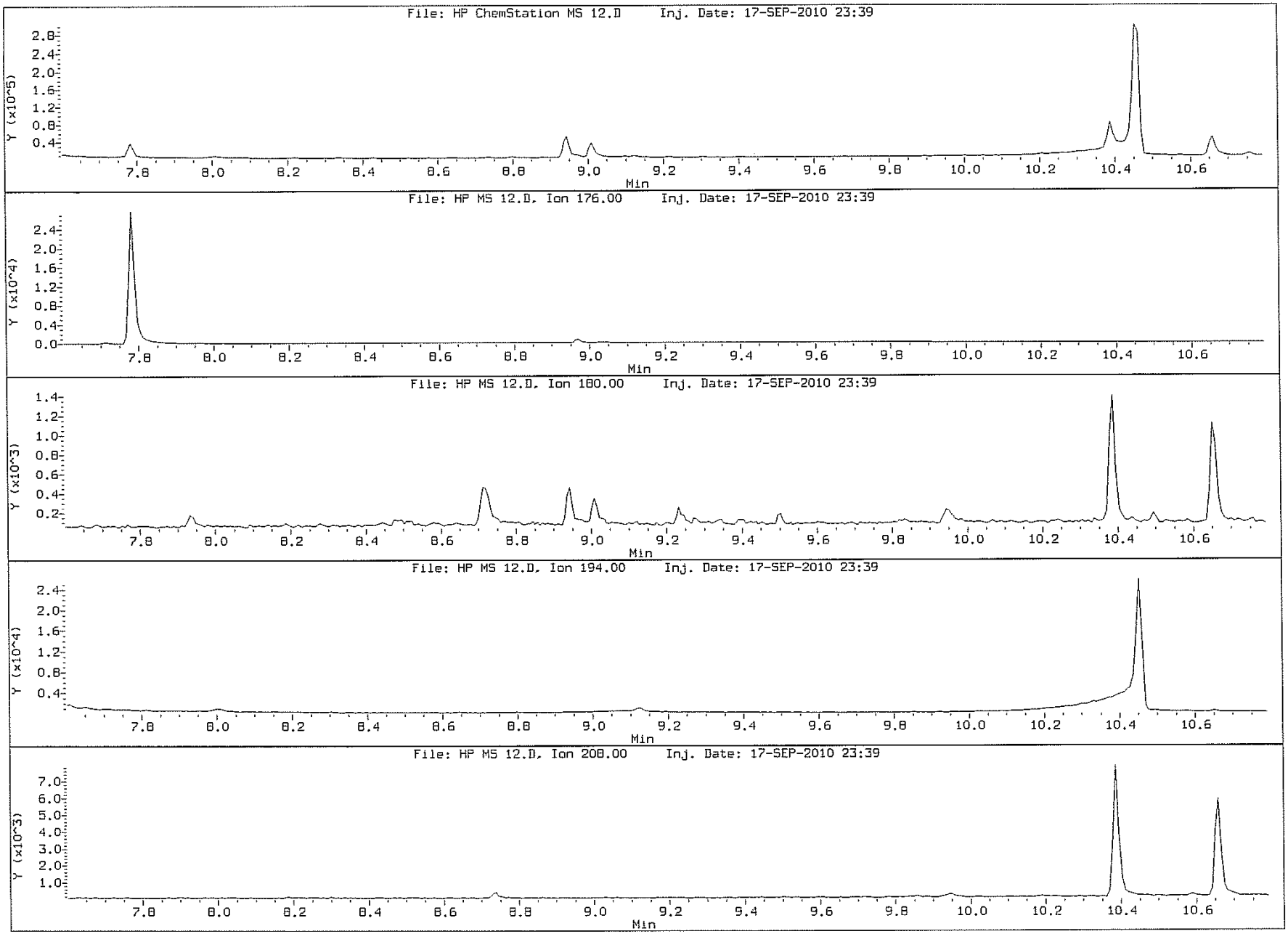
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Min
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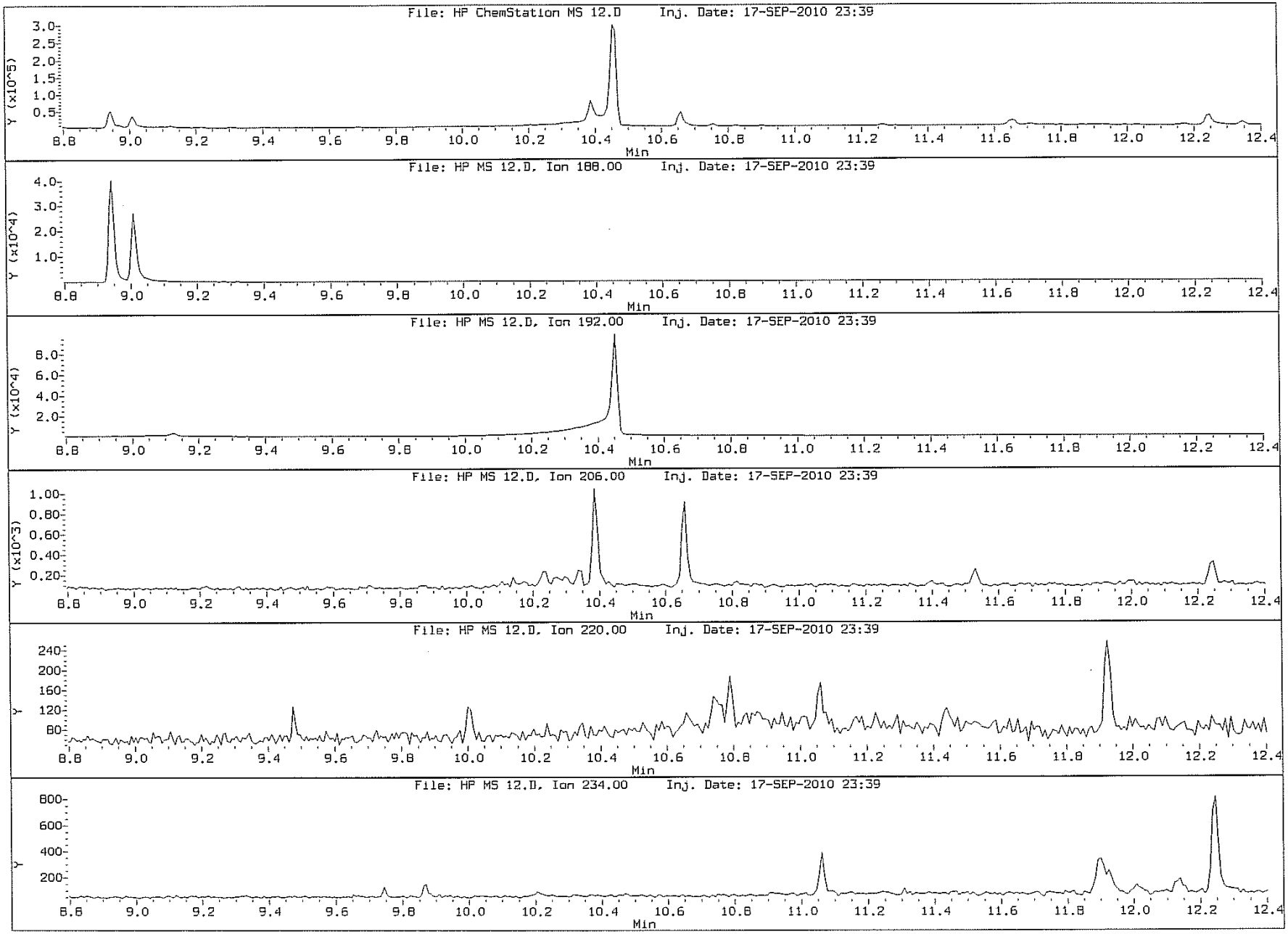
Y (x10^3)
Min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File: HP MS 12.D, Ion 188.00 Inj. Date: 17-SEP-2010 23:39
Y (x10^4)
Min
File: HP MS 12.D, Ion 192.00 Inj. Date: 17-SEP-2010 23:39
Y (x10^4)
Min
File: HP MS 12.D, Ion 206.00 Inj. Date: 17-SEP-2010 23:39
Y (x10^3)
Min
File: HP MS 12.D, Ion 220.00 Inj. Date: 17-SEP-2010 23:39
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Min
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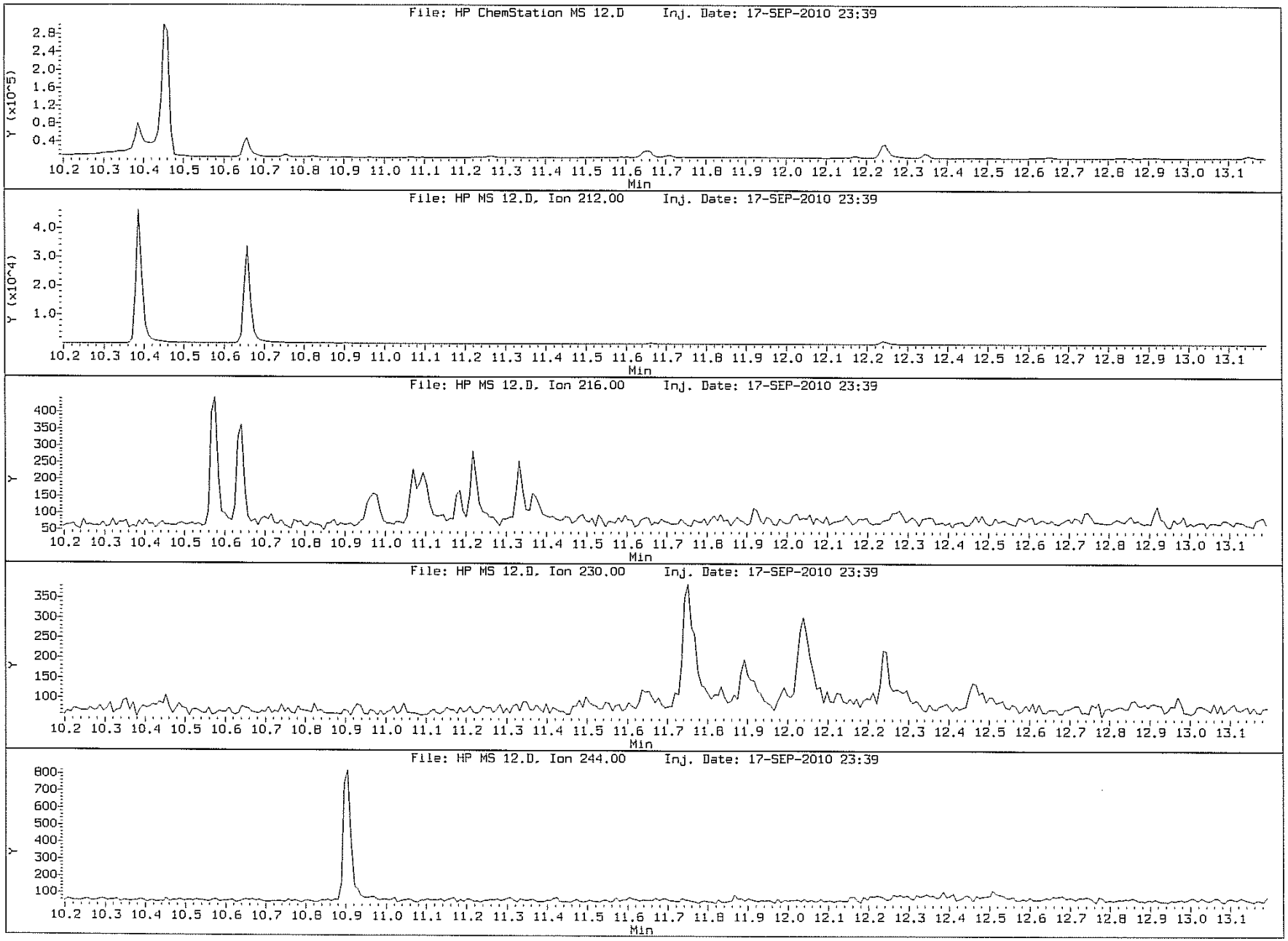
Y
Min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1.6
1.2
0.8
0.4
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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Y (x10^4)
4.0
3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
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350
300
250
200
150
100
50
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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Y
350
300
250
200
150
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
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700
600
500
400
300
200
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
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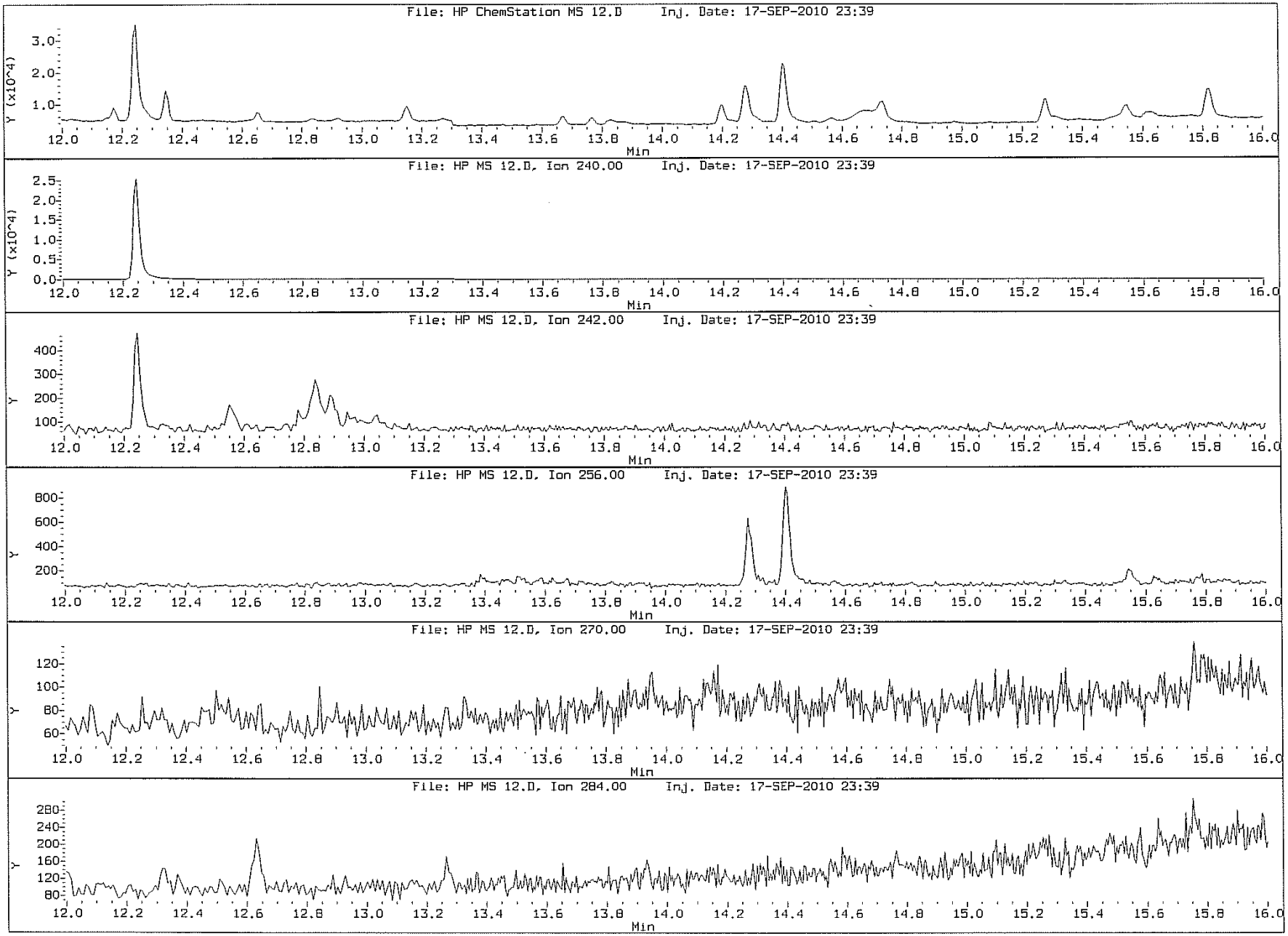
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Y
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Y
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\13.D
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Inj Date : 18-SEP-2010 00:04 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : 1009543-03C;1009543-03C
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Ws	15.000	Weight of sample extracted (g)
M	61.600	% Moisture
Cpnd Variable		Local Compound Variable

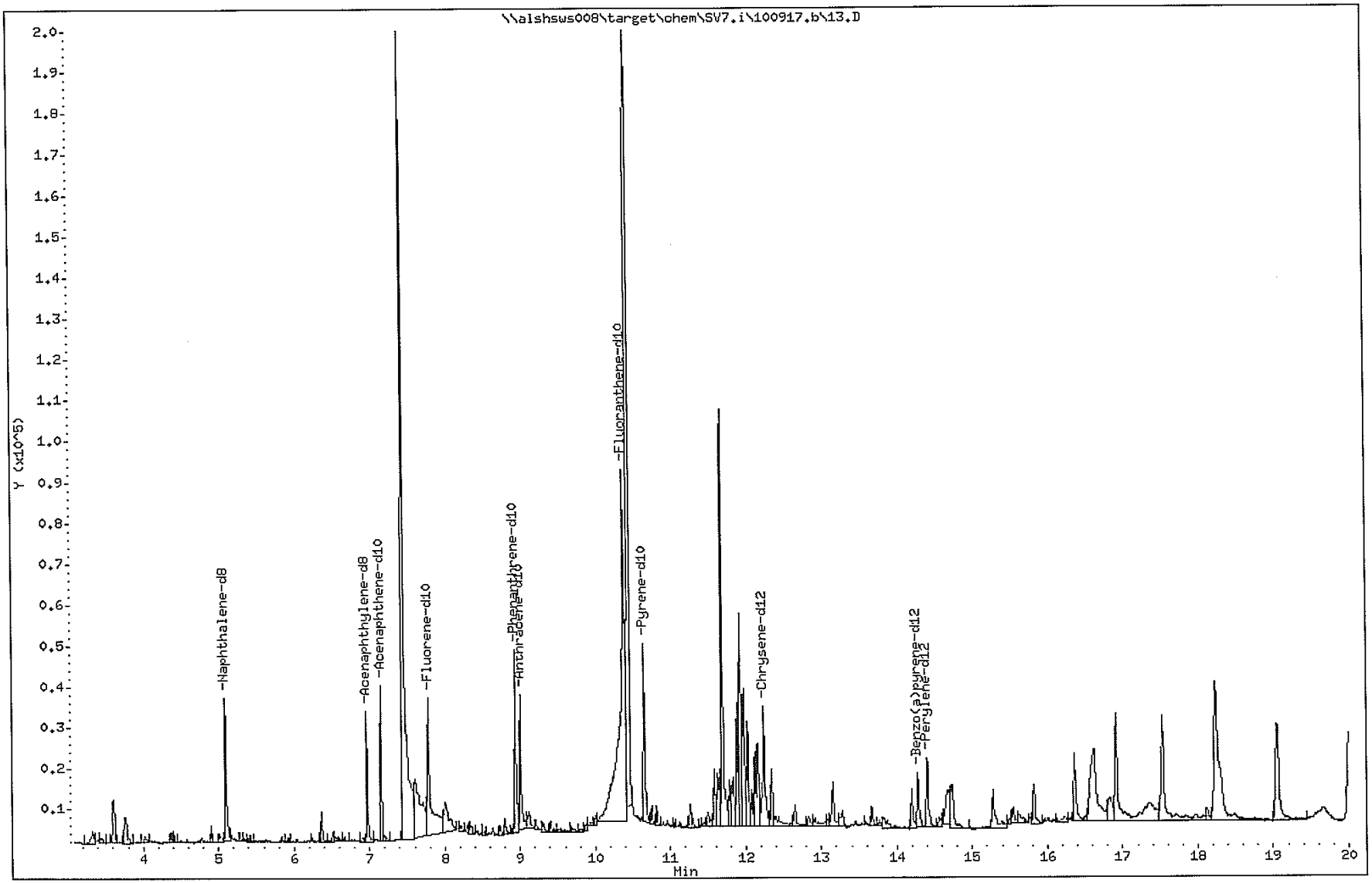
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	5.095	5.102	(1.000)	44386	0.40000	
* 9 Acenaphthene-d10	162	7.155	7.155	(1.000)	22406	0.40000	
$ 12 Acenaphthylene-d8	160	6.967	6.966	(0.974)	29868	0.28691	24.90
* 13 Fluorene-d10	176	7.782	7.782	(1.000)	29245	0.40000	
* 18 Phenanthrene-d10	188	8.942	8.942	(1.000)	41536	0.40000	
$ 27 Anthracene-d10	188	9.008	9.008	(1.007)	36720	0.28097	24.39
* 28 Fluoranthene-d10	212	10.387	10.386	(1.000)	47056	0.40000	
$ 36 Pyrene-d10	212	10.658	10.658	(1.026)	40743	0.32607	28.30
* 37 Chrysene-d12	240	12.245	12.245	(1.000)	37245	0.40000	
$ 45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	22611	0.35420	30.75
* 46 Perylene-d12	264	14.402	14.402	(1.000)	29920	0.40000	

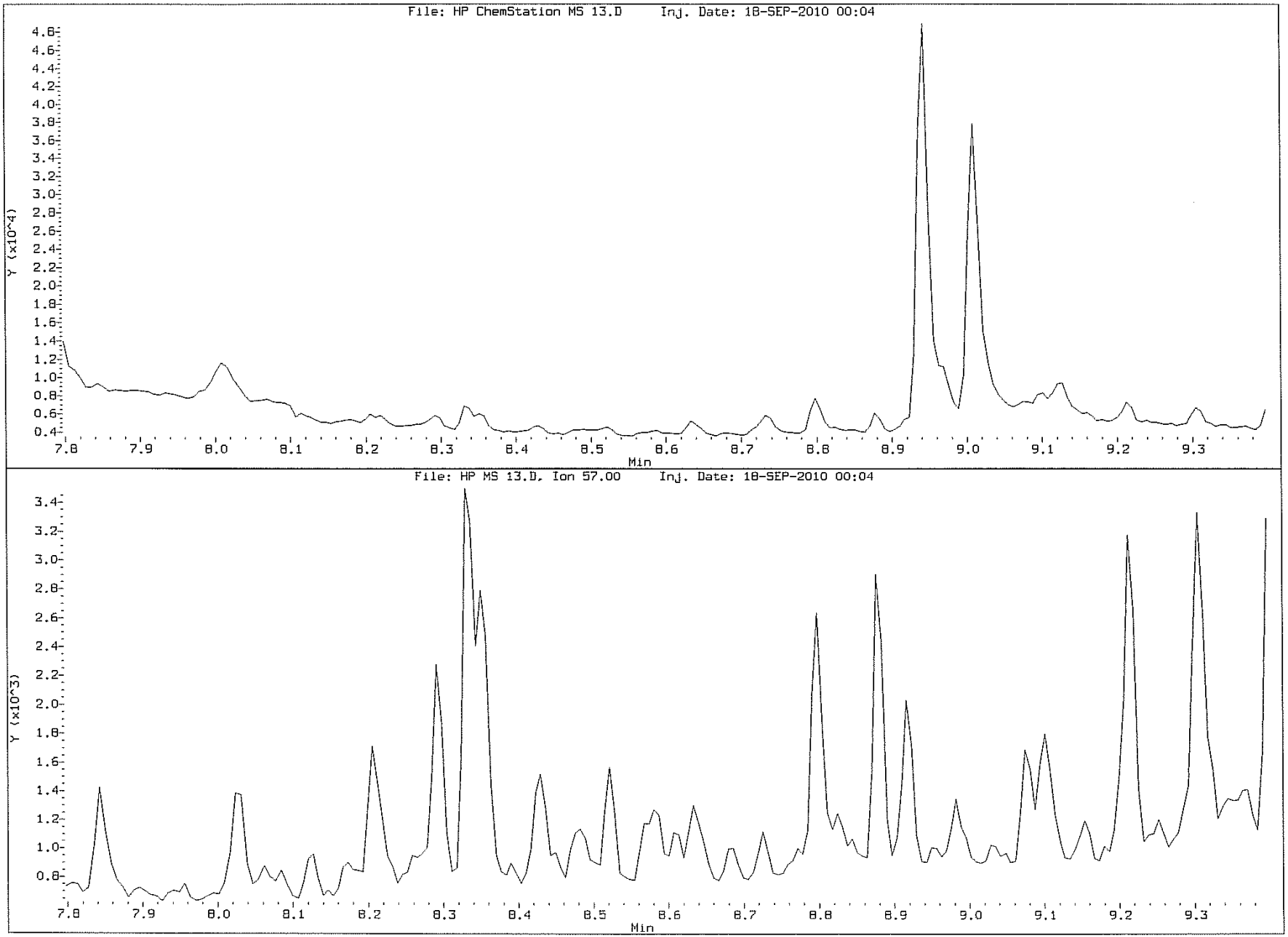
Data File: \\alshsws008\target\chem\SV7.i\100917.b\13.D
Date : 18-SEP-2010 00:04
Client ID: 1009543-03C
Sample Info: 1009543-03C;1009543-03C

Instrument: SV7.i

Operator: ALSHS.NoUser
Column diameter: 0.28

Column phase: RTX-5SIL MS

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4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
File: HP MS 13.D, Ion 57.00 Inj. Date: 18-SEP-2010 00:04
Y (x10^3)
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2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
7.8
7.9
8.0
8.1
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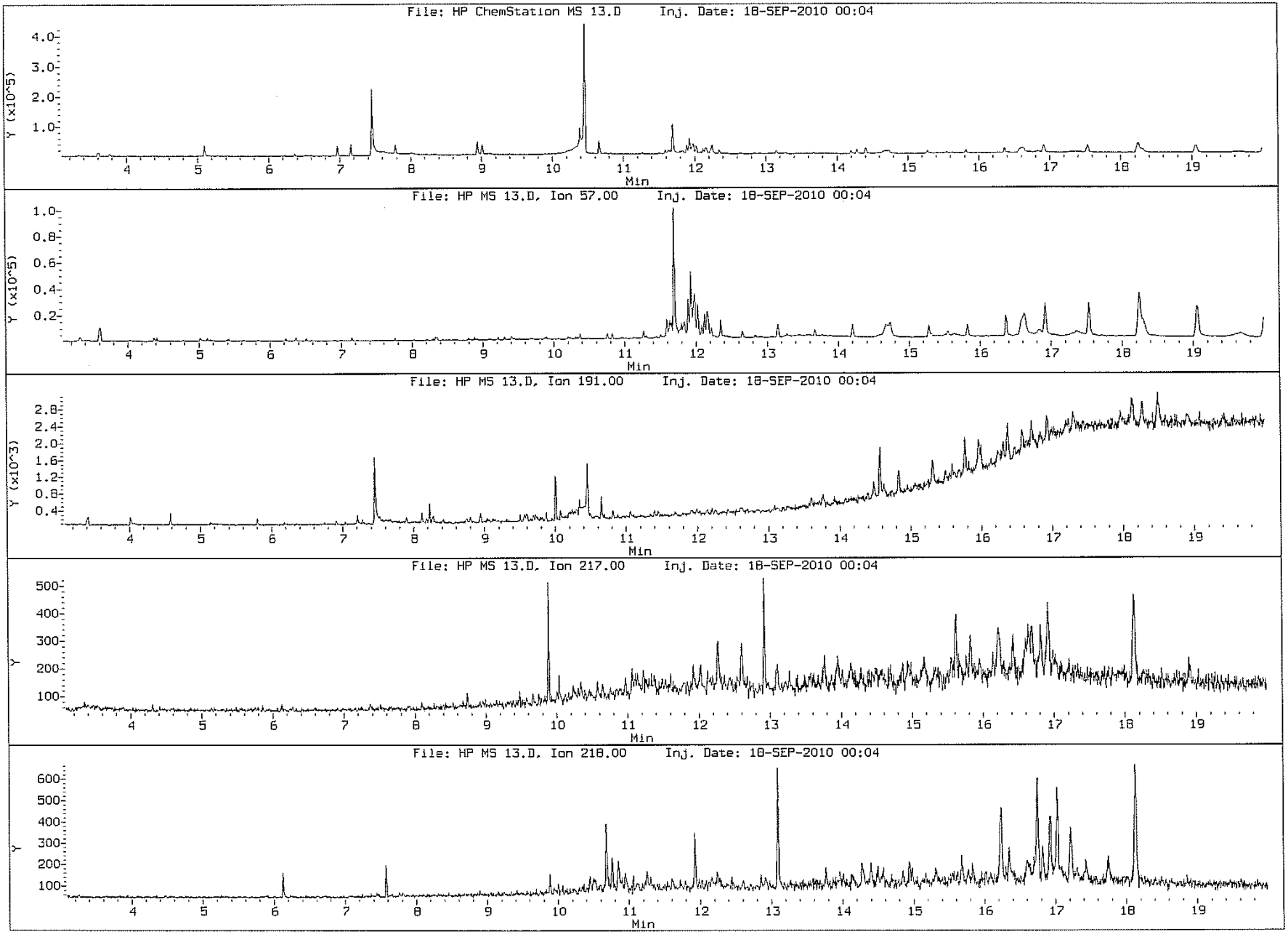
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Y (x10^5)
Min
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Y (x10^3)
Min
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Min
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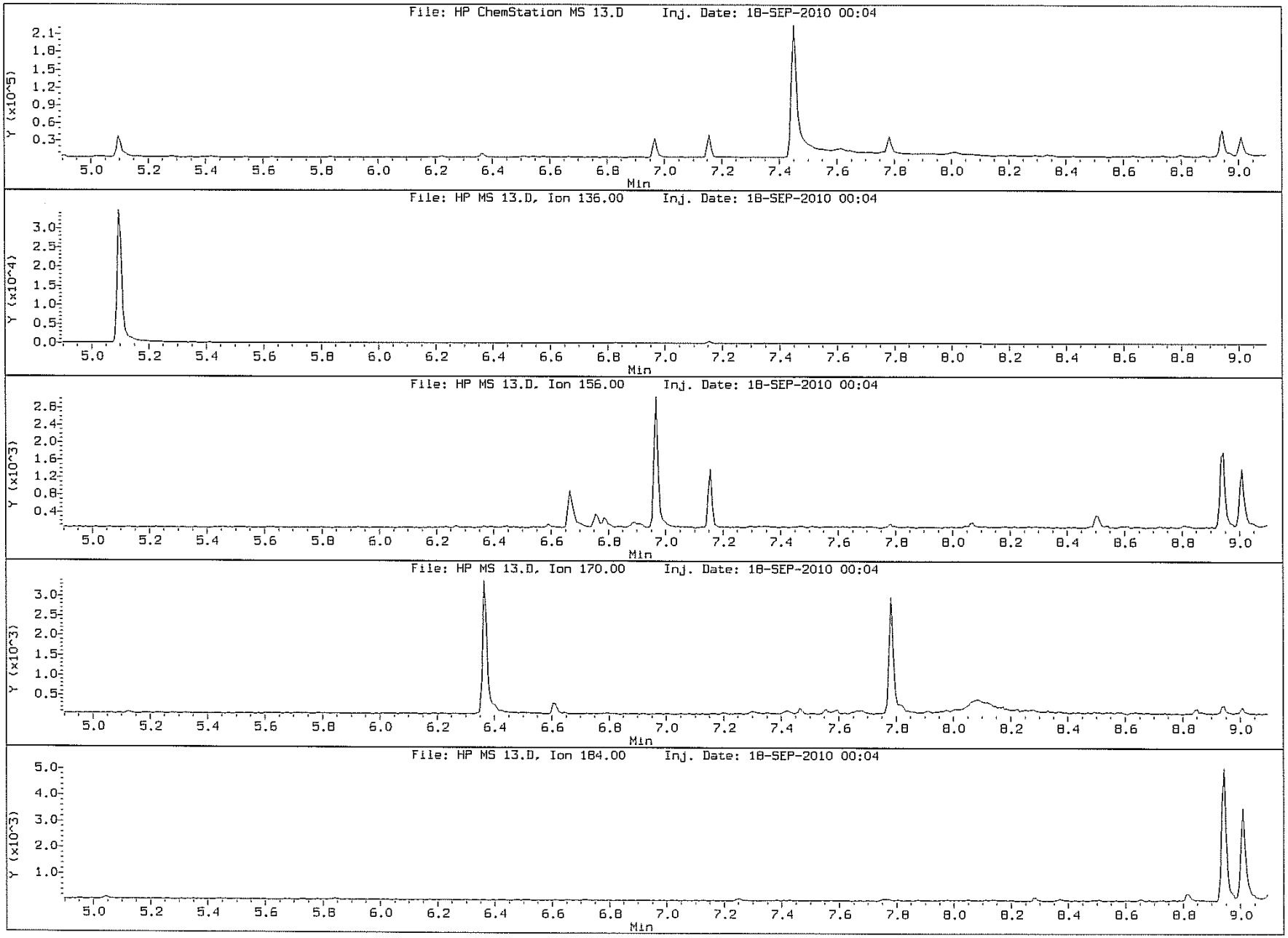
Y
Min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Y (x10^4)
Min
File: HP MS 13.D, Ion 156.00 Inj. Date: 18-SEP-2010 00:04
Y (x10^3)
Min
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Y (x10^3)
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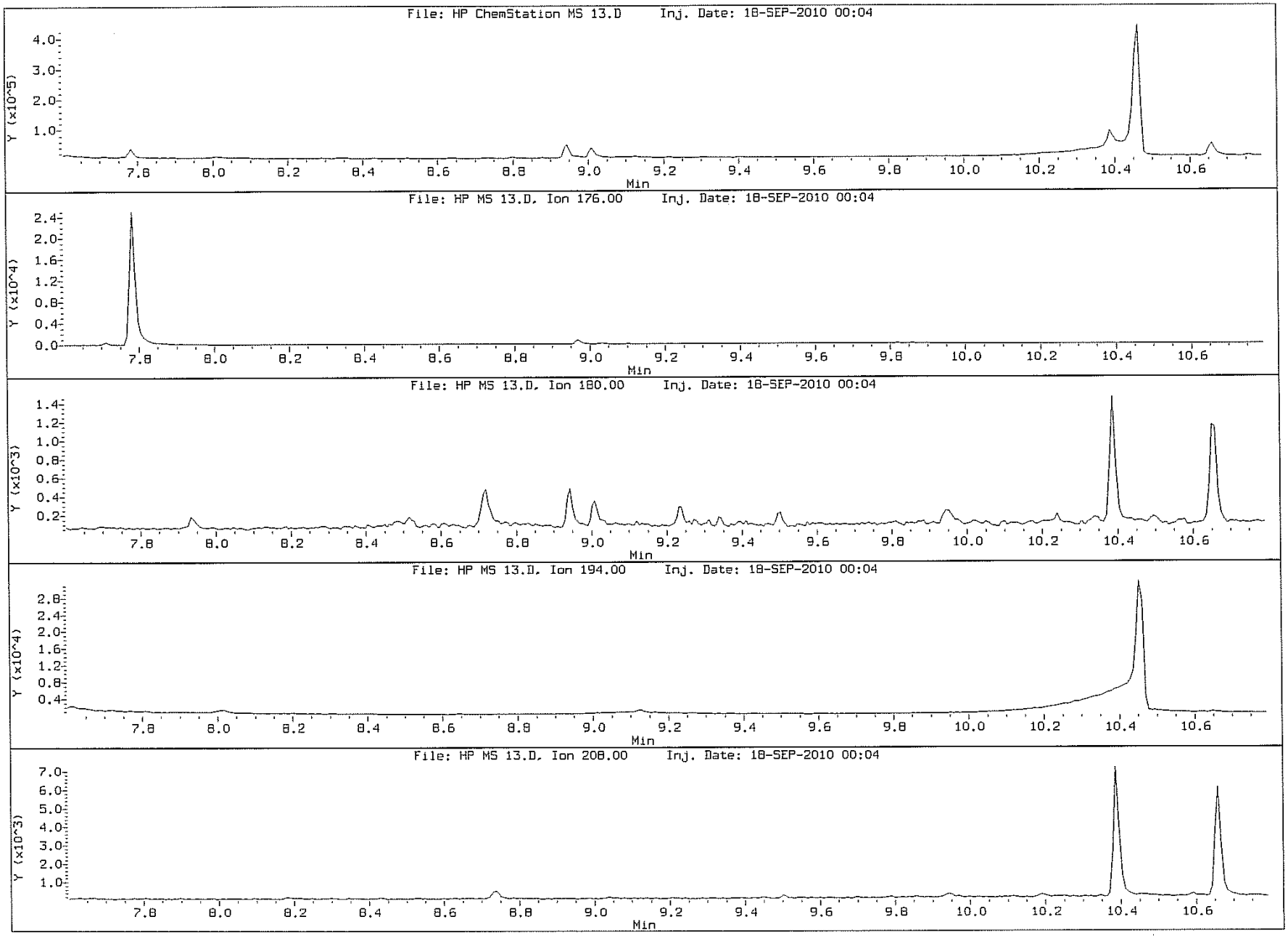
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1.2
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0.4
0.0
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Min
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0.2
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2.4
2.0
1.6
1.2
0.8
0.4
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 13.D, Ion 208.00 Inj. Date: 18-SEP-2010 00:04
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5.0
4.0
3.0
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1.0
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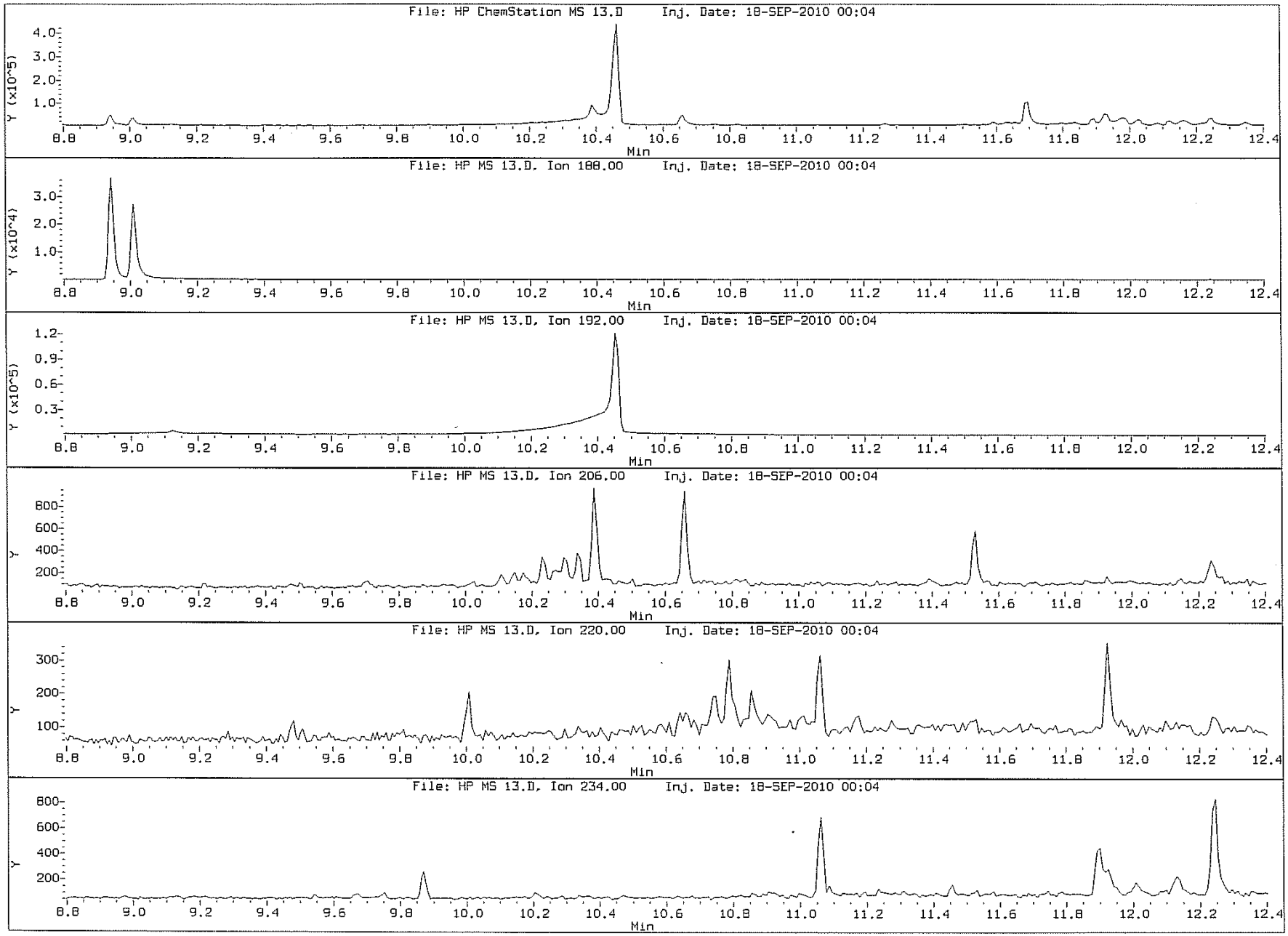
Min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Min
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Min
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0.9
0.6
0.3
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 13.D, Ion 206.00 Inj. Date: 18-SEP-2010 00:04
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800
600
400
200
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 13.D, Ion 220.00 Inj. Date: 18-SEP-2010 00:04
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200
100
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
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Y
800
600
400
200
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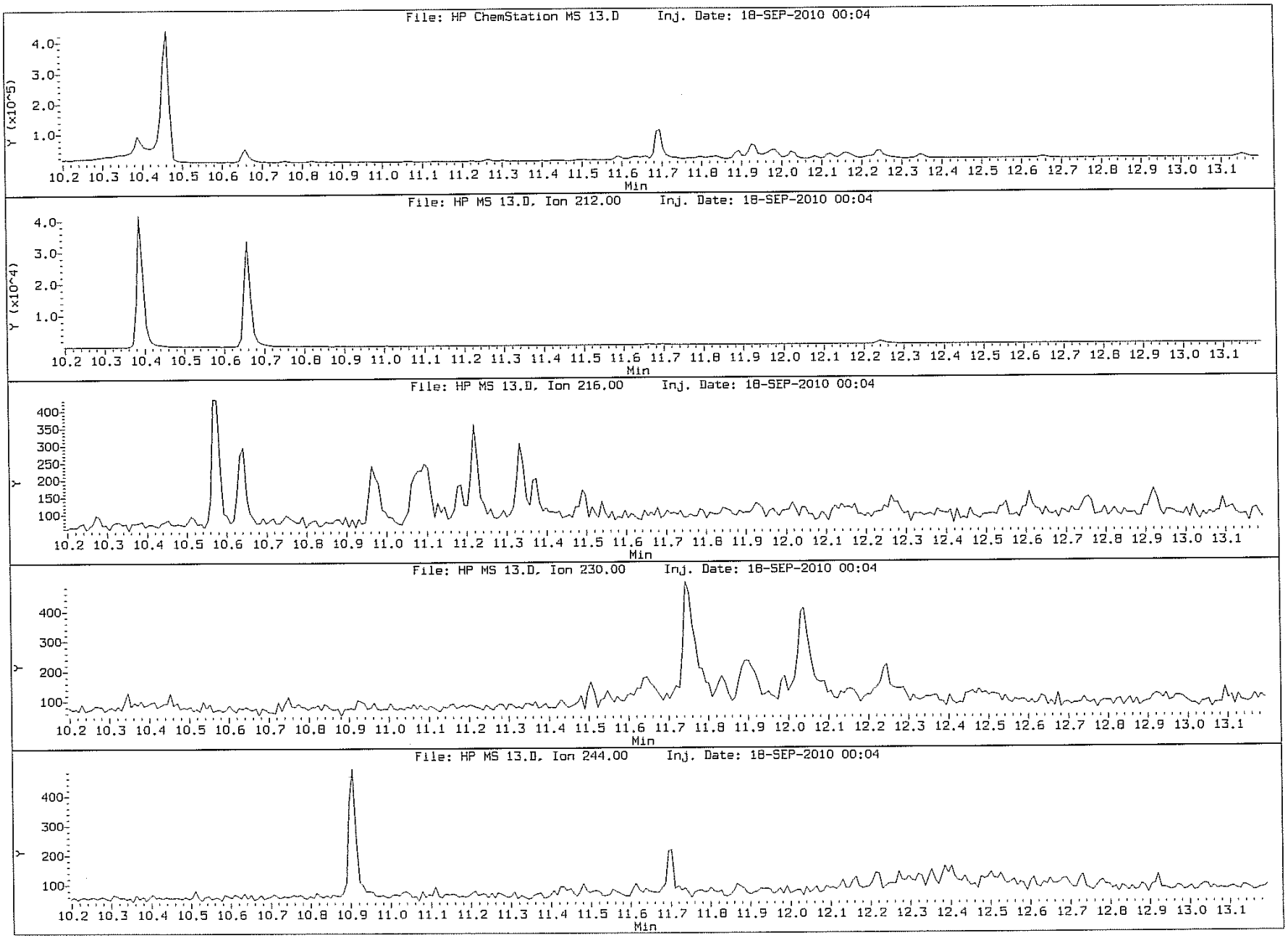
Min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2.0
1.0
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Min
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3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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Y
400
350
300
250
200
150
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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300
200
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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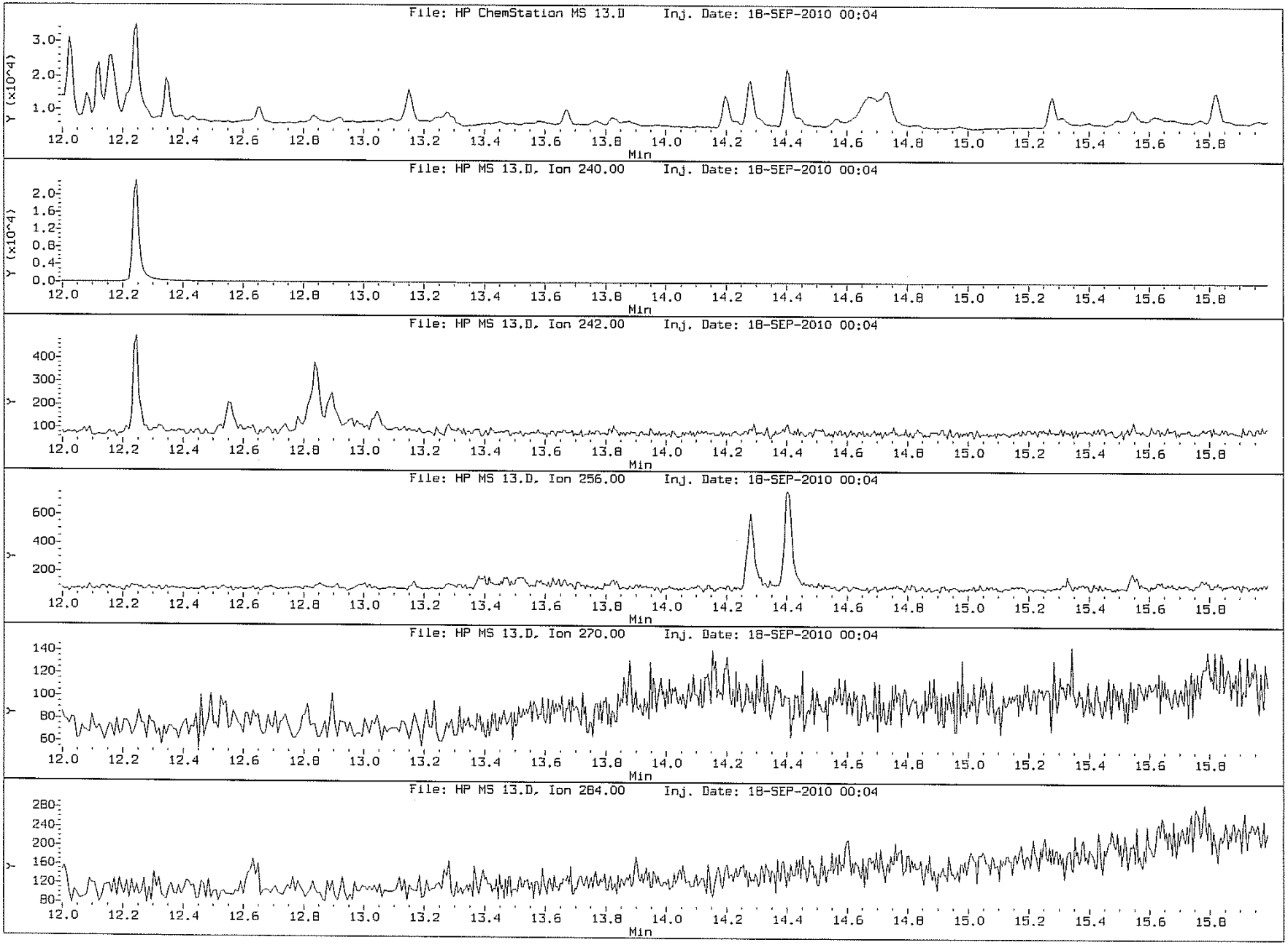
400
300
200
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min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Y
Min
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Y
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\14.D
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Inj Date : 18-SEP-2010 00:28 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : 1009543-06C;1009543-06C
Misc Info : ;;0;1;
Comment :
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Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

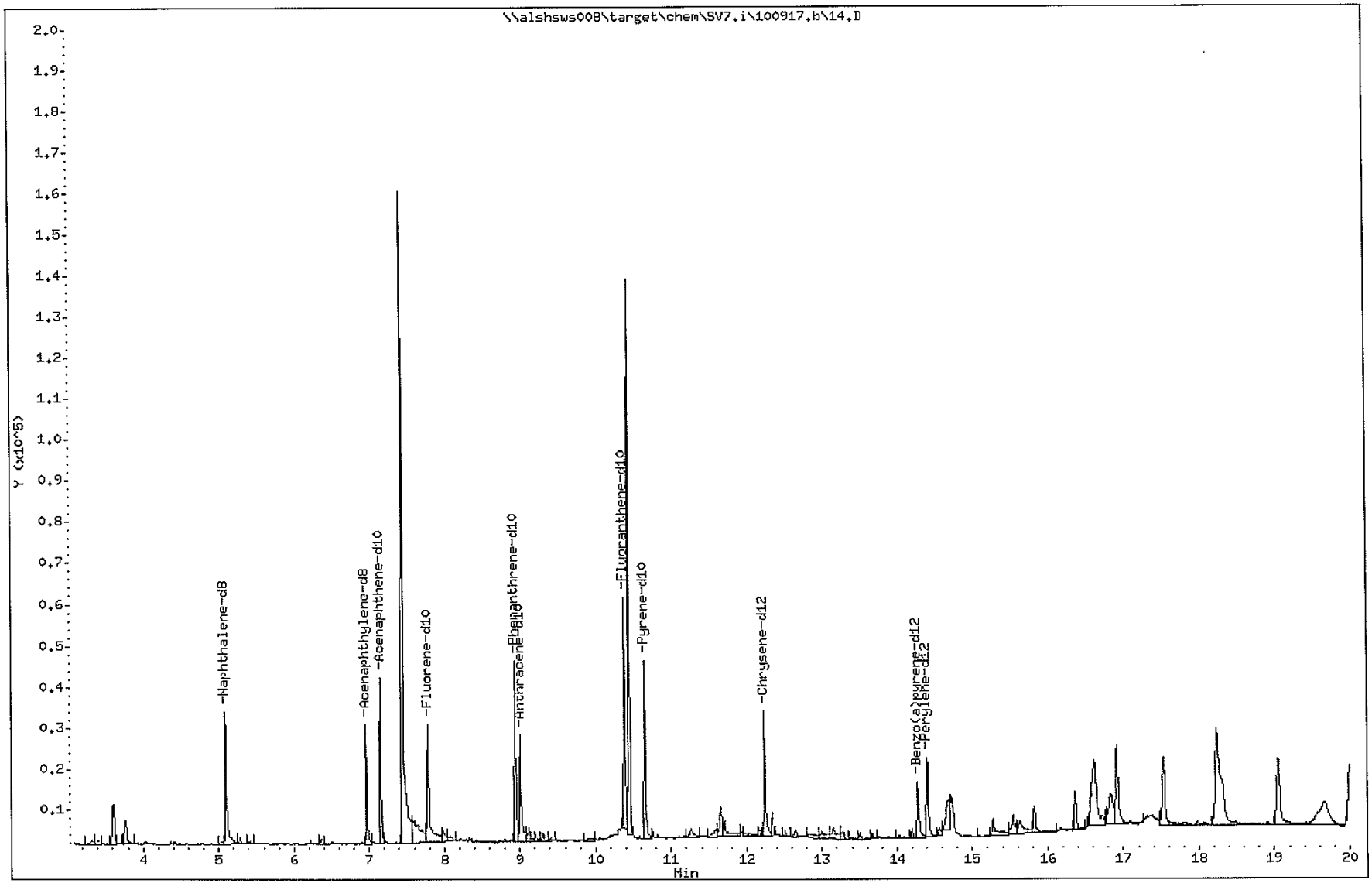
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Ws	30.010	Weight of sample extracted (g)
M	14.100	% Moisture
Cpnd Variable		Local Compound Variable

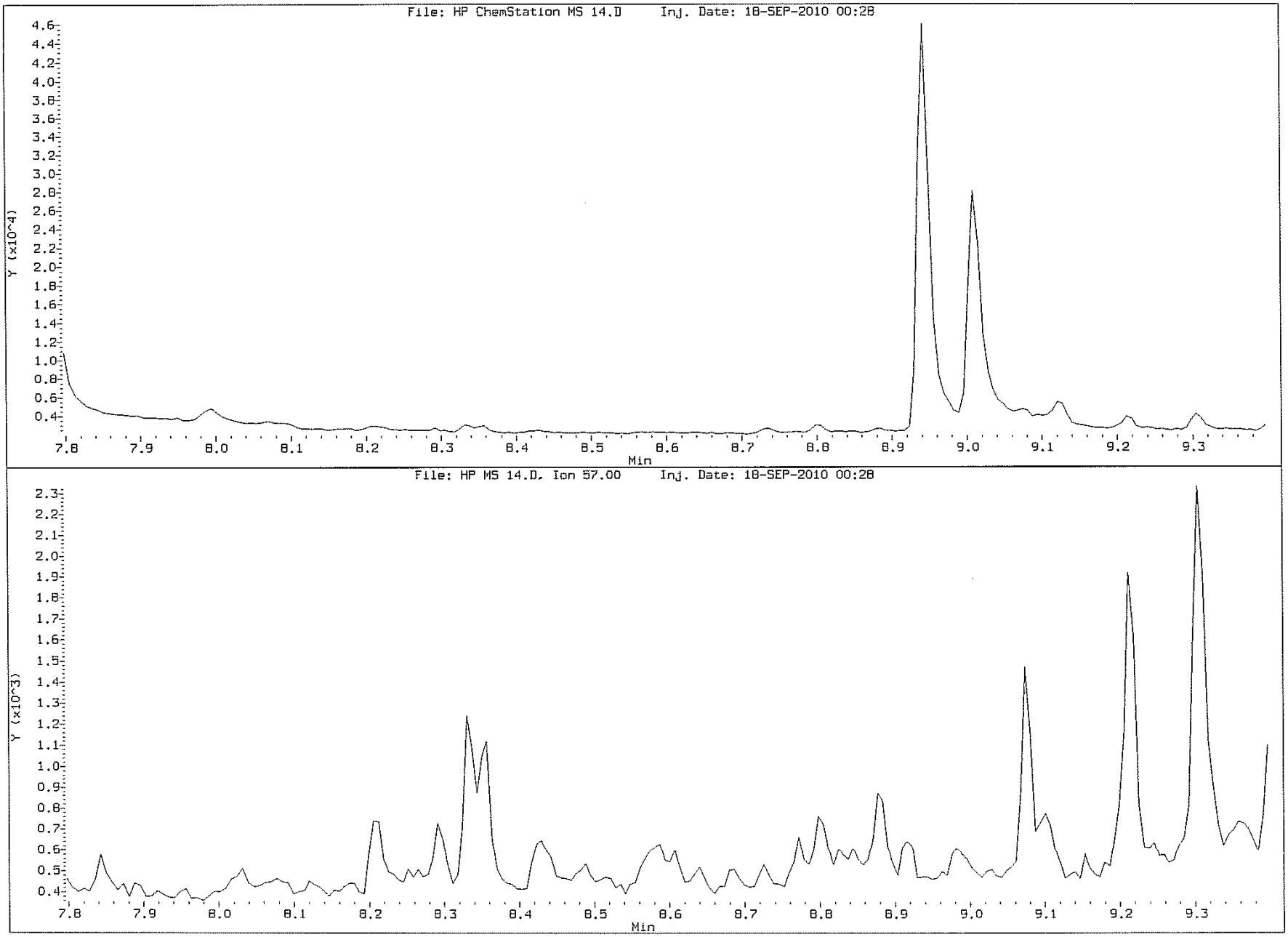
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	5.095	5.102	(1.000)	48743	0.40000	
* 9 Acenaphthene-d10	162	7.155	7.155	(1.000)	24913	0.40000	
$ 12 Acenaphthylene-d8	160	6.967	6.966	(0.974)	29472	0.25462	9.877
* 13 Fluorene-d10	176	7.782	7.782	(1.000)	32033	0.40000	
* 18 Phenanthrene-d10	188	8.942	8.942	(1.000)	44889	0.40000	
$ 27 Anthracene-d10	188	9.008	9.008	(1.007)	36147	0.25593	9.928
* 28 Fluoranthene-d10	212	10.387	10.386	(1.000)	52696	0.40000	
$ 36 Pyrene-d10	212	10.658	10.658	(1.026)	42272	0.30209	11.72
* 37 Chrysene-d12	240	12.245	12.245	(1.000)	42150	0.40000	
$ 45 Benzo(a)pyrene-d12	264	14.275	14.280	(1.166)	23349	0.32319	12.54
* 46 Perylene-d12	264	14.402	14.402	(1.000)	33322	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\14.D
Date : 18-SEP-2010 00:28
Client ID: 1009543-06C
Sample Info: 1009543-06C;1009543-06C

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28

Column phase: RTX-5SIL MS

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3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
File: HP MS 14.D, Ion 57.00 Inj. Date: 18-SEP-2010 00:28
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2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
7.8
7.9
8.0
8.1
8.2
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8.7
8.8
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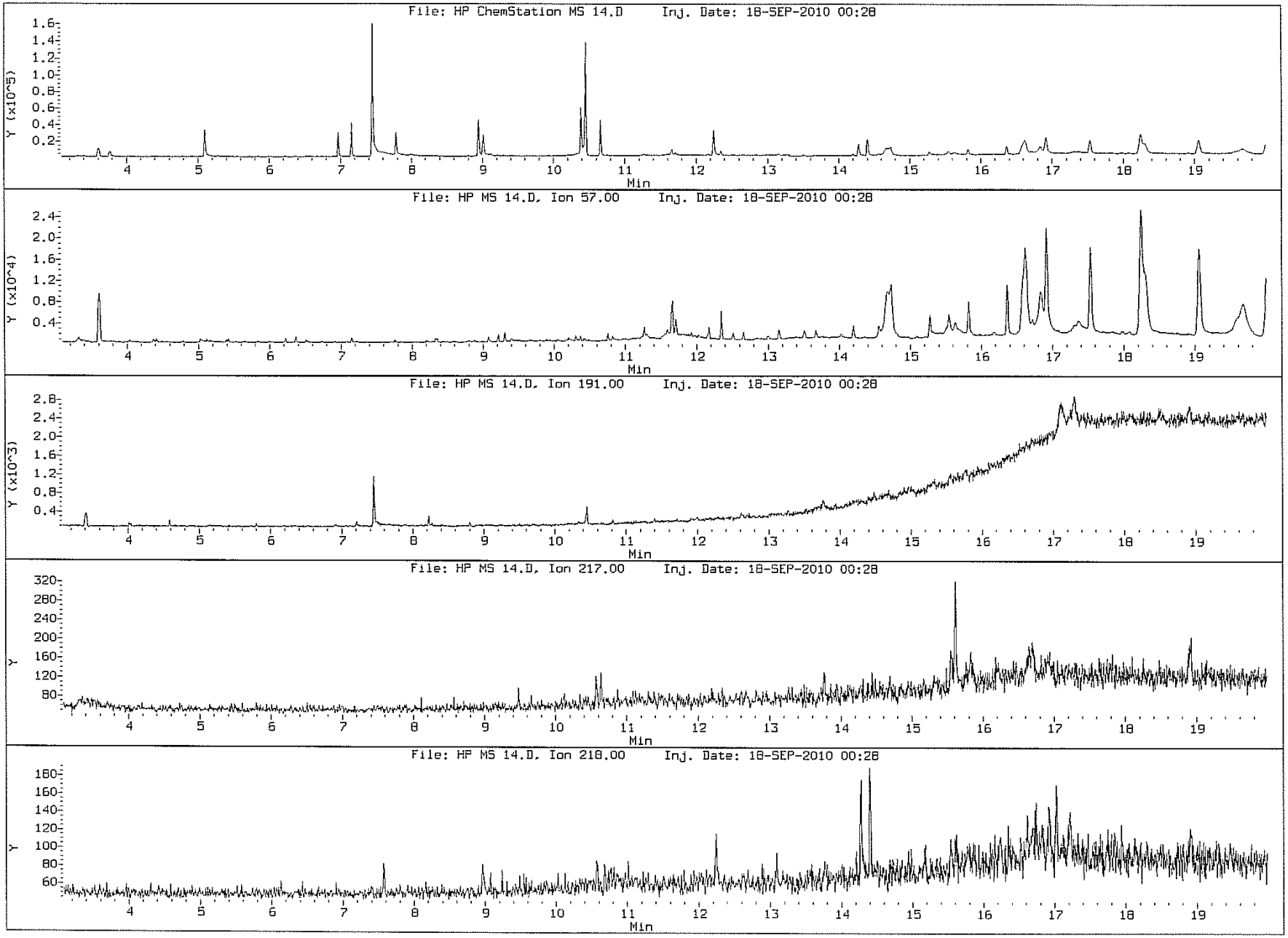
9.1
9.2
9.3
Min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Y (x10^5)
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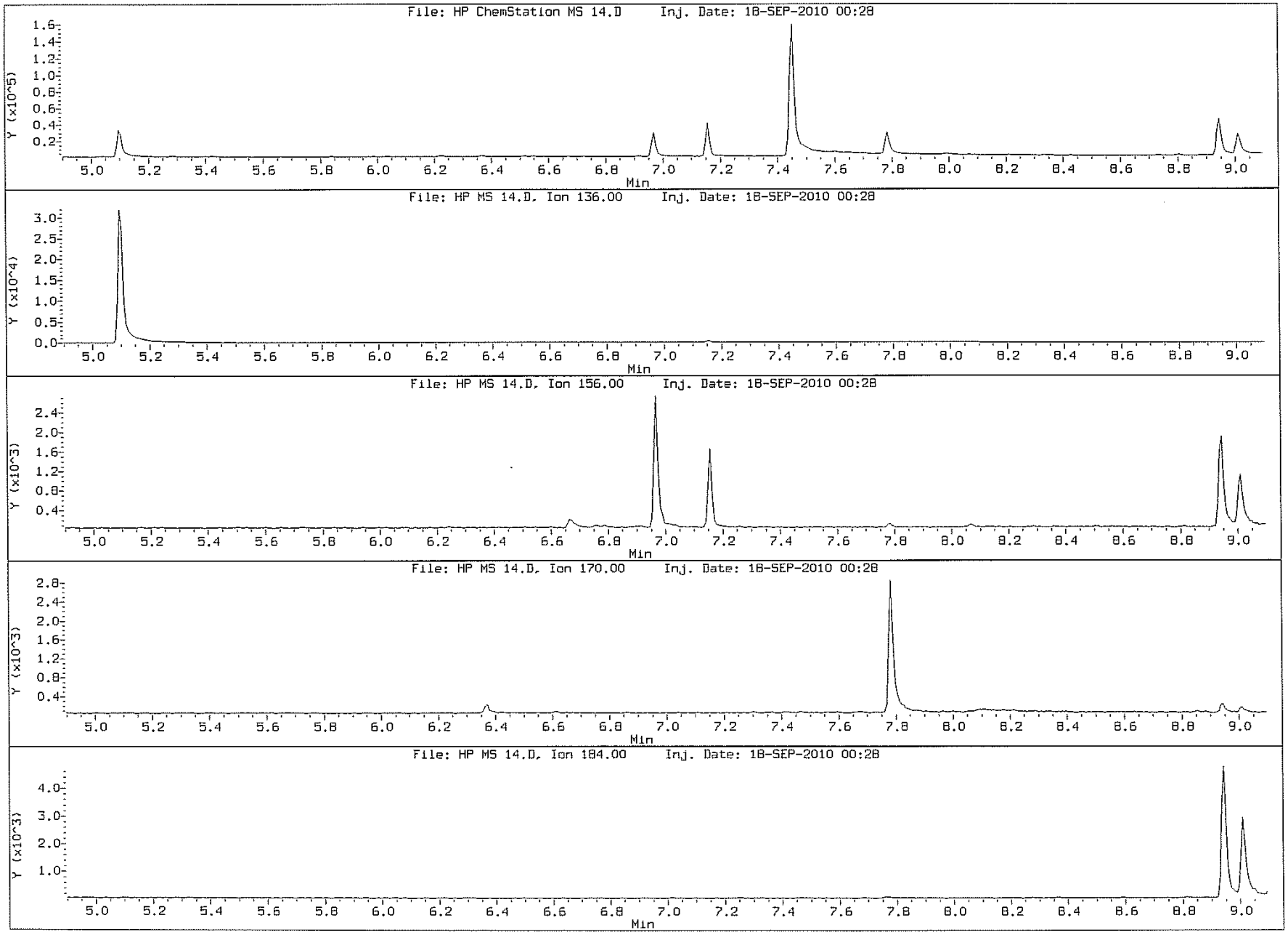
1.4
1.2
1.0
0.8
0.6
0.4
0.2
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
File: HP MS 14.D, Ion 57.00 Inj. Date: 18-SEP-2010 00:28
Y (x10^4)
2.4
2.0
1.6
1.2
0.8
0.4
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
File: HP MS 14.D, Ion 191.00 Inj. Date: 18-SEP-2010 00:28
Y (x10^3)
2.8
2.4
2.0
1.6
1.2
0.8
0.4
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
File: HP MS 14.D, Ion 217.00 Inj. Date: 18-SEP-2010 00:28
Y
320
280
240
200
160
120
80
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
File: HP MS 14.D, Ion 218.00 Inj. Date: 18-SEP-2010 00:28
Y
180
160
140
120
100
80
60
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min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Y (x10^4)
Min
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Min
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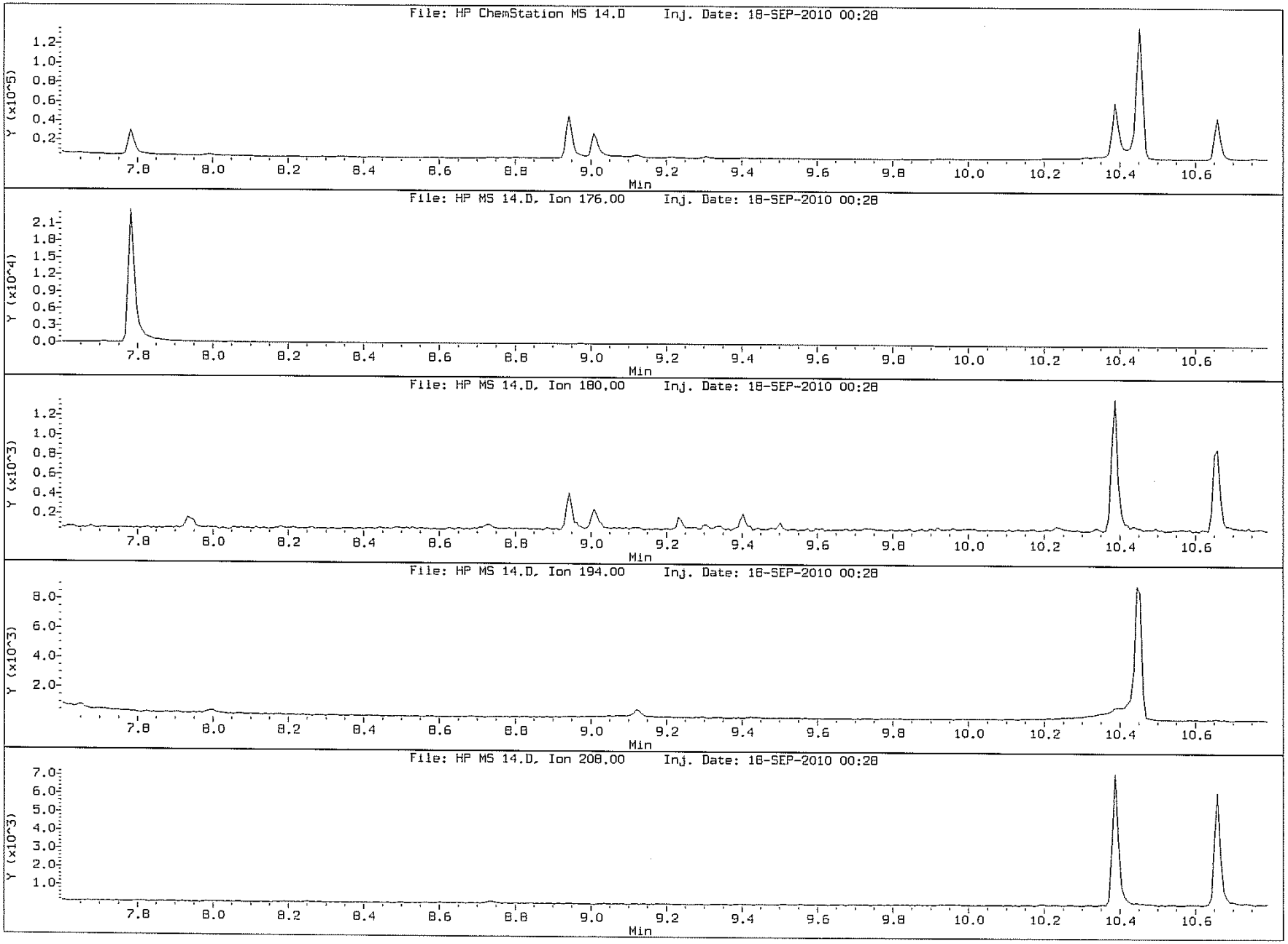
Y (x10^3)
Min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Y (x10^5)
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1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
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Y (x10^4)
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1.2
0.9
0.6
0.3
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
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Y (x10^3)
1.2
1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
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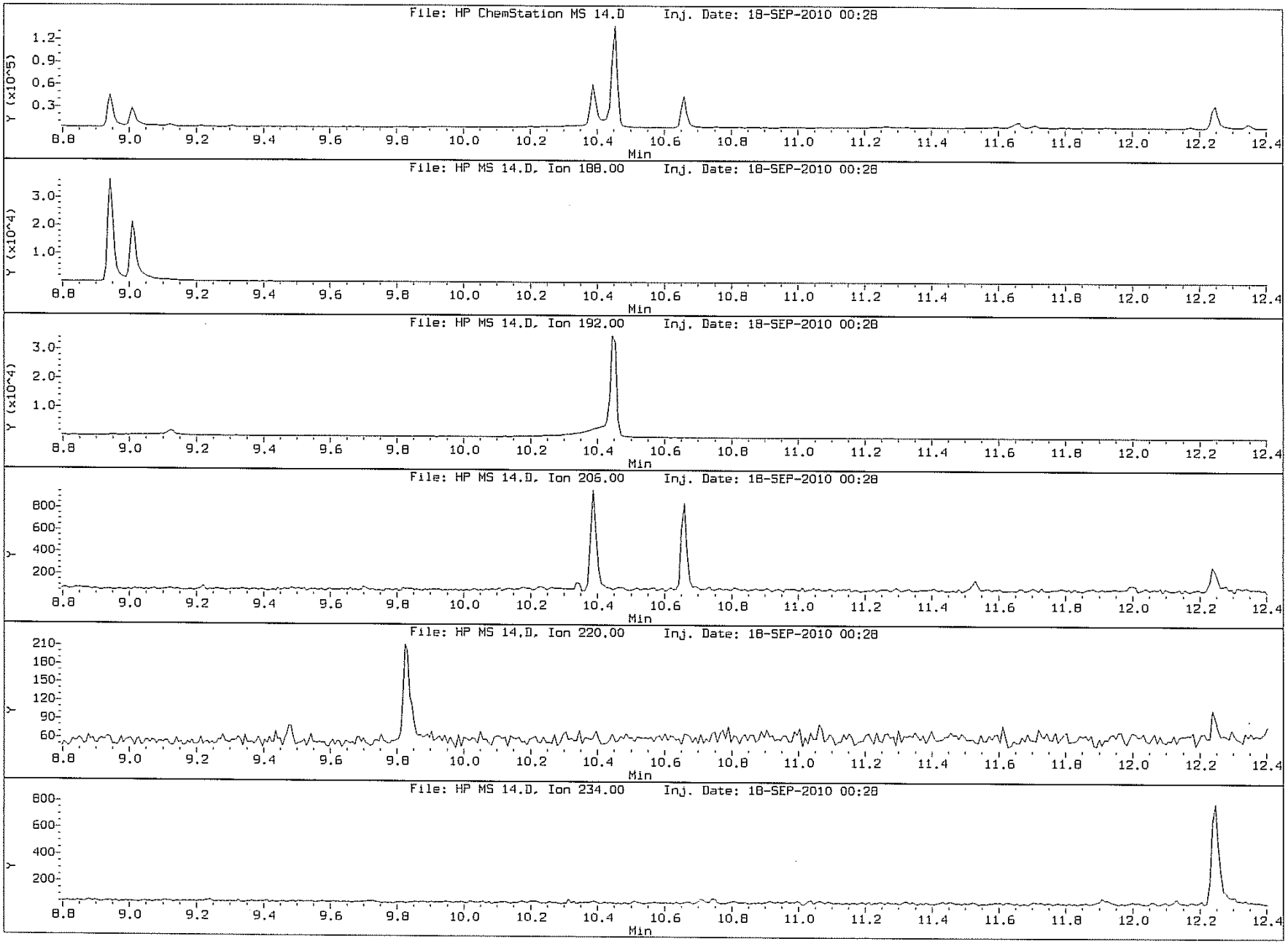
Y (x10^3)
8.0
6.0
4.0
2.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 14.D, Ion 208.00 Inj. Date: 18-SEP-2010 00:28
Y (x10^3)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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Y (x10^5)
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0.9
0.6
0.3
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 14.D, Ion 188.00 Inj. Date: 18-SEP-2010 00:28
Y (x10^4)
3.0
2.0
1.0
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 14.D, Ion 192.00 Inj. Date: 18-SEP-2010 00:28
Y (x10^4)
3.0
2.0
1.0
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 14.D, Ion 206.00 Inj. Date: 18-SEP-2010 00:28
Y
800
600
400
200
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 14.D, Ion 220.00 Inj. Date: 18-SEP-2010 00:28
Y
210
180
150
120
90
60
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Min
File: HP MS 14.D, Ion 234.00 Inj. Date: 18-SEP-2010 00:28
Y
800
600
400
200
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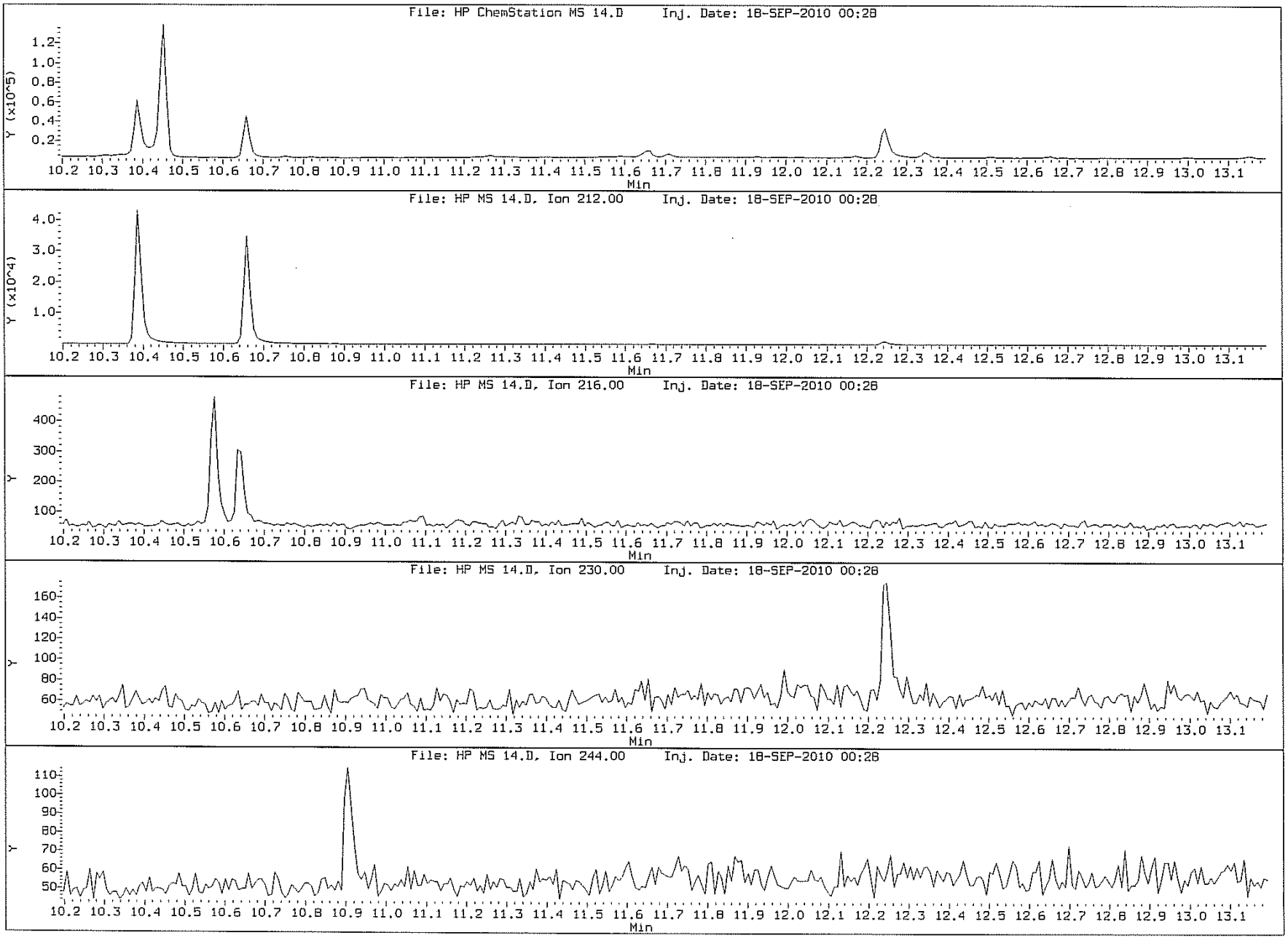
Min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1.0
0.8
0.6
0.4
0.2
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 14.D, Ion 212.00 Inj. Date: 18-SEP-2010 00:28
Y (x10^4)
4.0
3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 14.D, Ion 216.00 Inj. Date: 18-SEP-2010 00:28
Y
400
300
200
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 14.D, Ion 230.00 Inj. Date: 18-SEP-2010 00:28
Y
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 14.D, Ion 244.00 Inj. Date: 18-SEP-2010 00:28
Y
110
100
90
80
70
60
50
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
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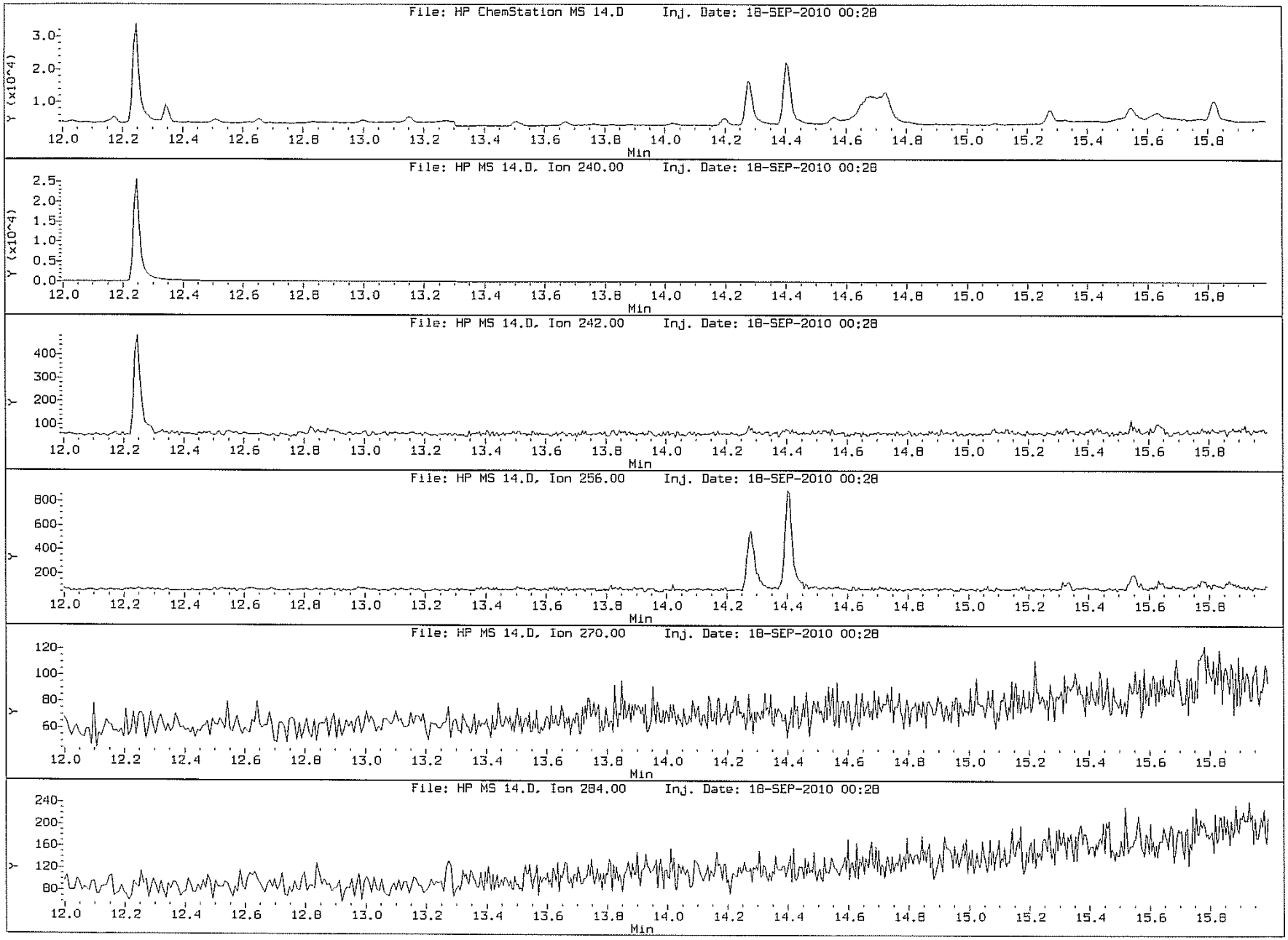
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Y (x10^4)
Min
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Y
Min
File: HP MS 14.D, Ion 256.00 Inj. Date: 18-SEP-2010 00:28
Y
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Y
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

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Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

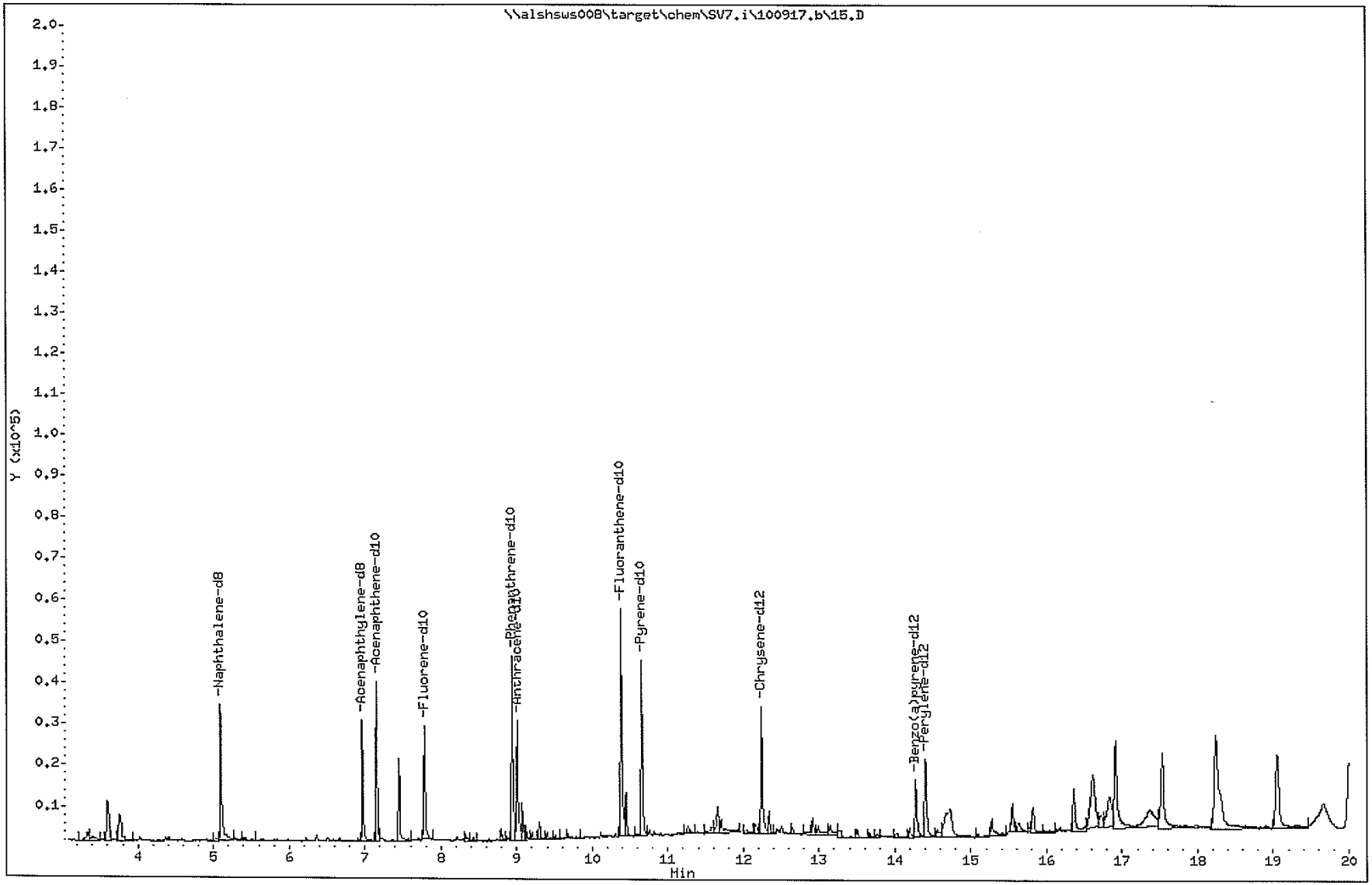
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Ws	30.030	Weight of sample extracted (g)
M	19.100	% Moisture
Cpnd Variable		Local Compound Variable

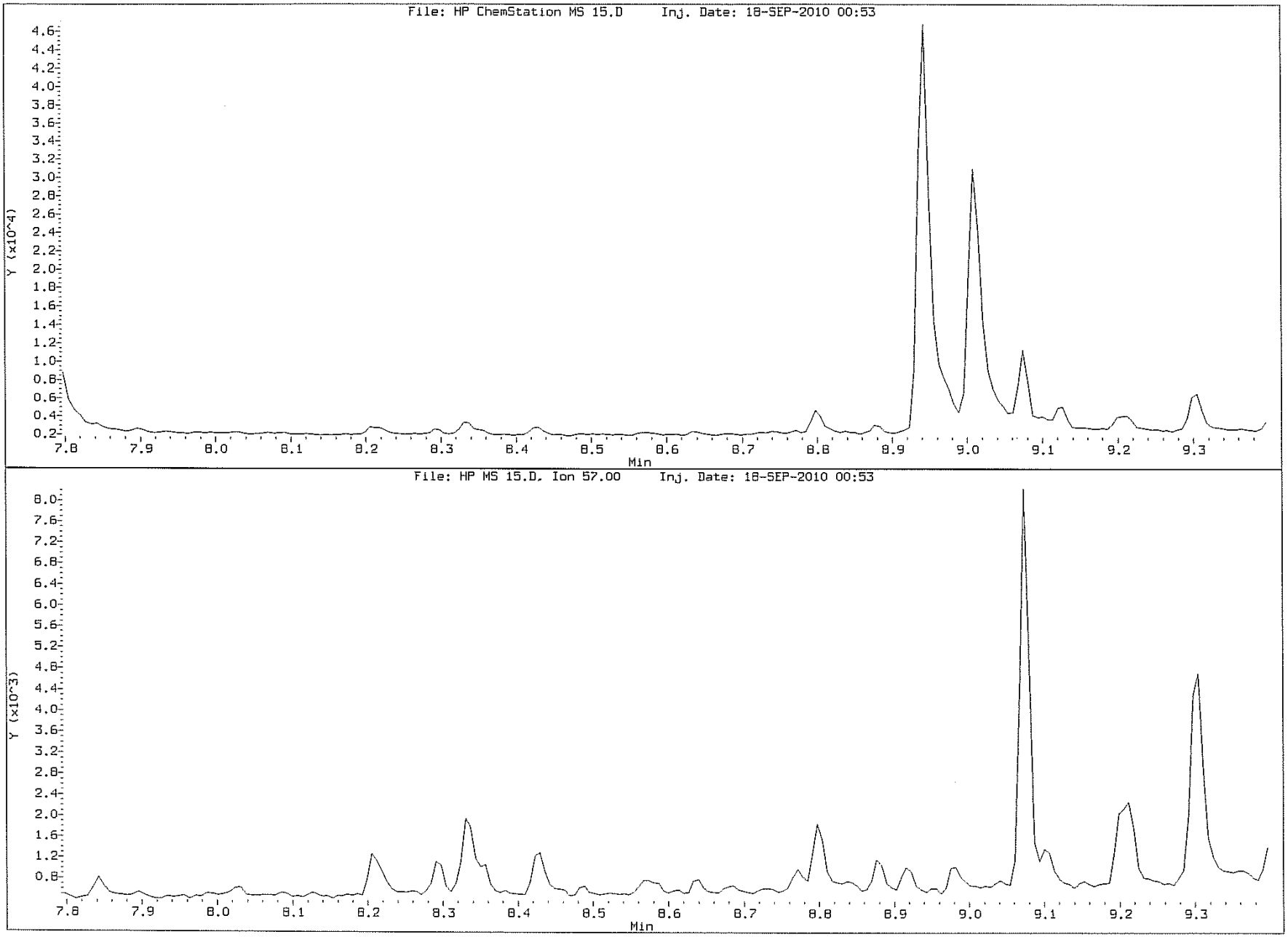
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	5.094	5.102	(1.000)	49183	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	25201	0.40000	
$	12 Acenaphthylene-d8	160	6.966	6.966	(0.974)	29836	0.25482	10.49
*	13 Fluorene-d10	176	7.782	7.782	(1.000)	32208	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.942	(1.000)	45113	0.40000	
$	27 Anthracene-d10	188	9.008	9.008	(1.007)	37536	0.26444	10.88
*	28 Fluoranthene-d10	212	10.386	10.386	(1.000)	50498	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	41278	0.30783	12.67
*	37 Chrysene-d12	240	12.245	12.245	(1.000)	41729	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.275	14.280	(1.166)	22101	0.30900	12.72
*	46 Perylene-d12	264	14.402	14.402	(1.000)	31661	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\15.D
Date : 18-SEP-2010 00:53
Client ID: 1009543-09C
Sample Info: 1009543-09C;1009543-09C

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28

Column phase: RTX-5SIL MS

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2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
7.8
7.9
8.0
8.1
8.2
8.3
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8.5
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9.1
9.2
9.3
Min
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4.8
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4.0
3.6
3.2
2.8
2.4
2.0
1.6
1.2
0.8
7.8
7.9
8.0
8.1
8.2
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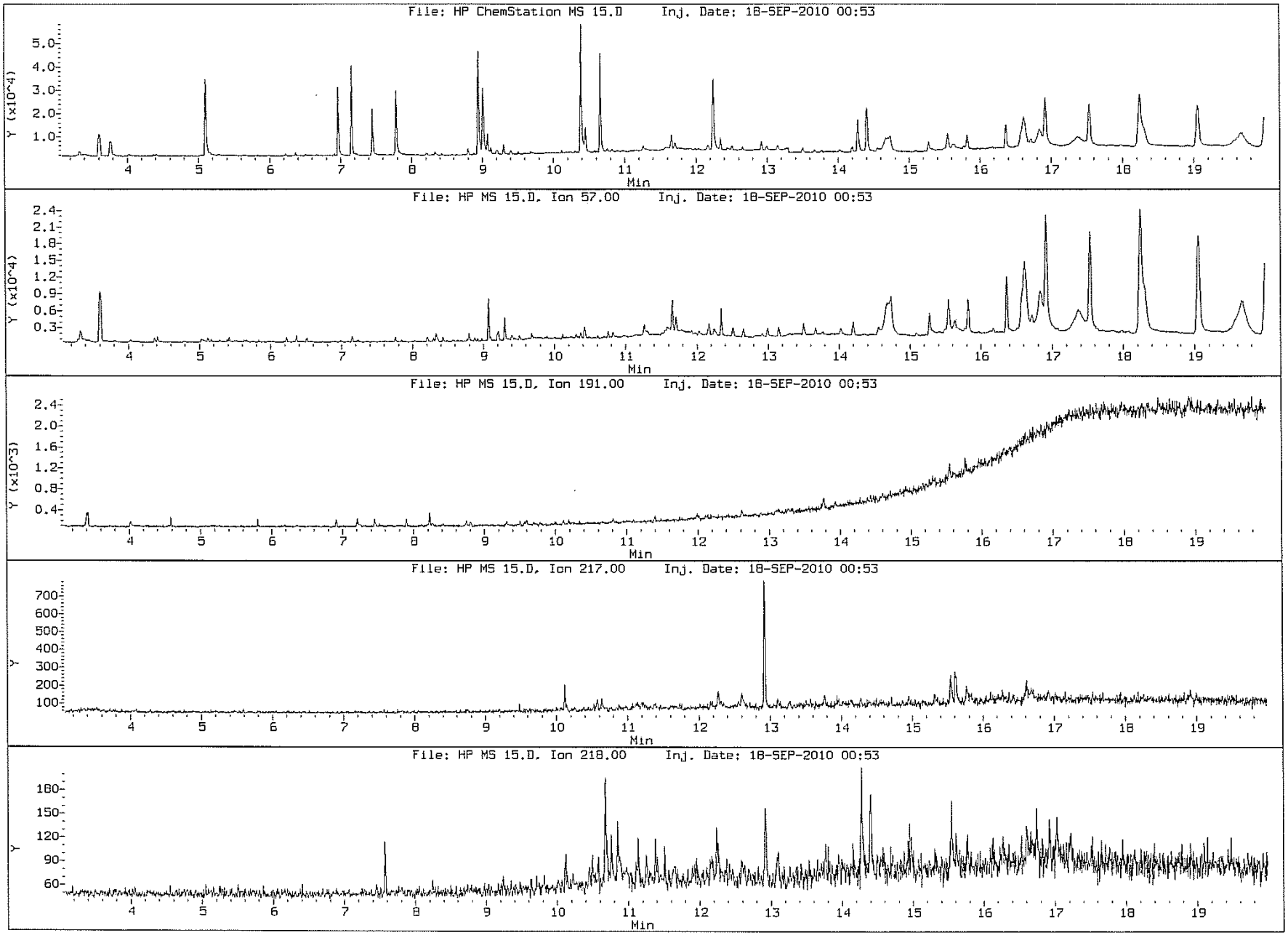
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Min
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Y
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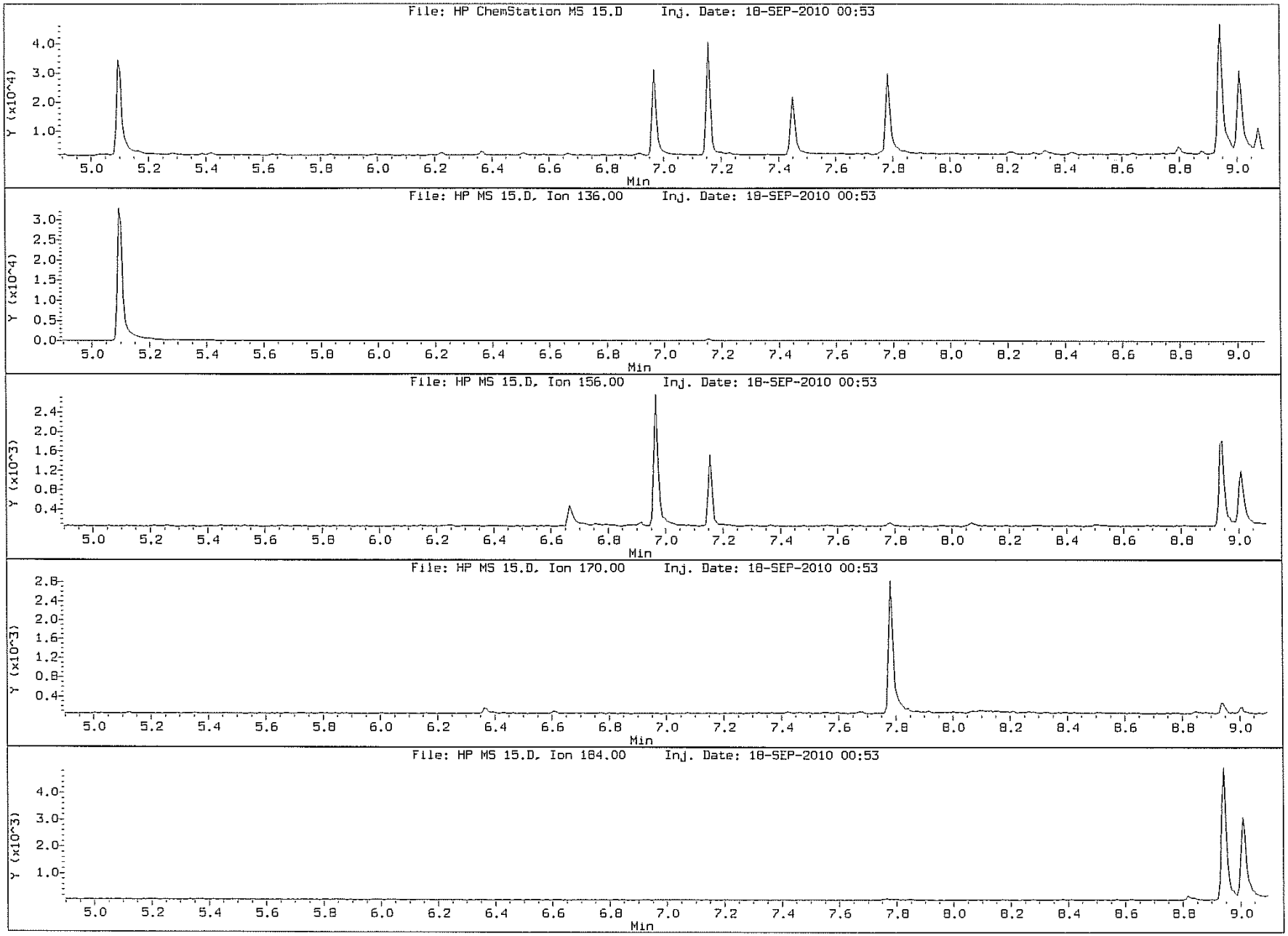
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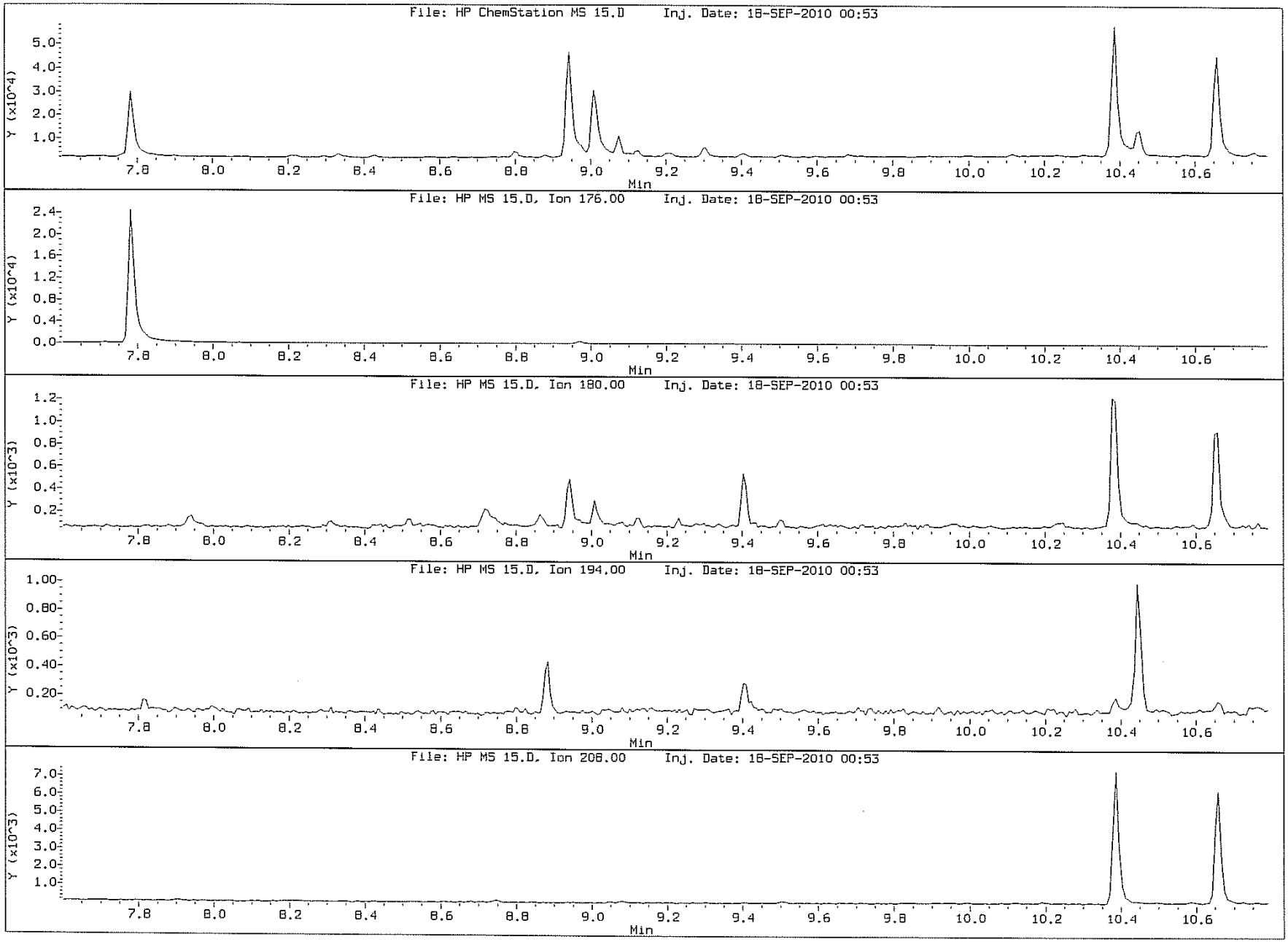
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Min
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0.8
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Min
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0.6
0.4
0.2
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Min
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Min
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4.0
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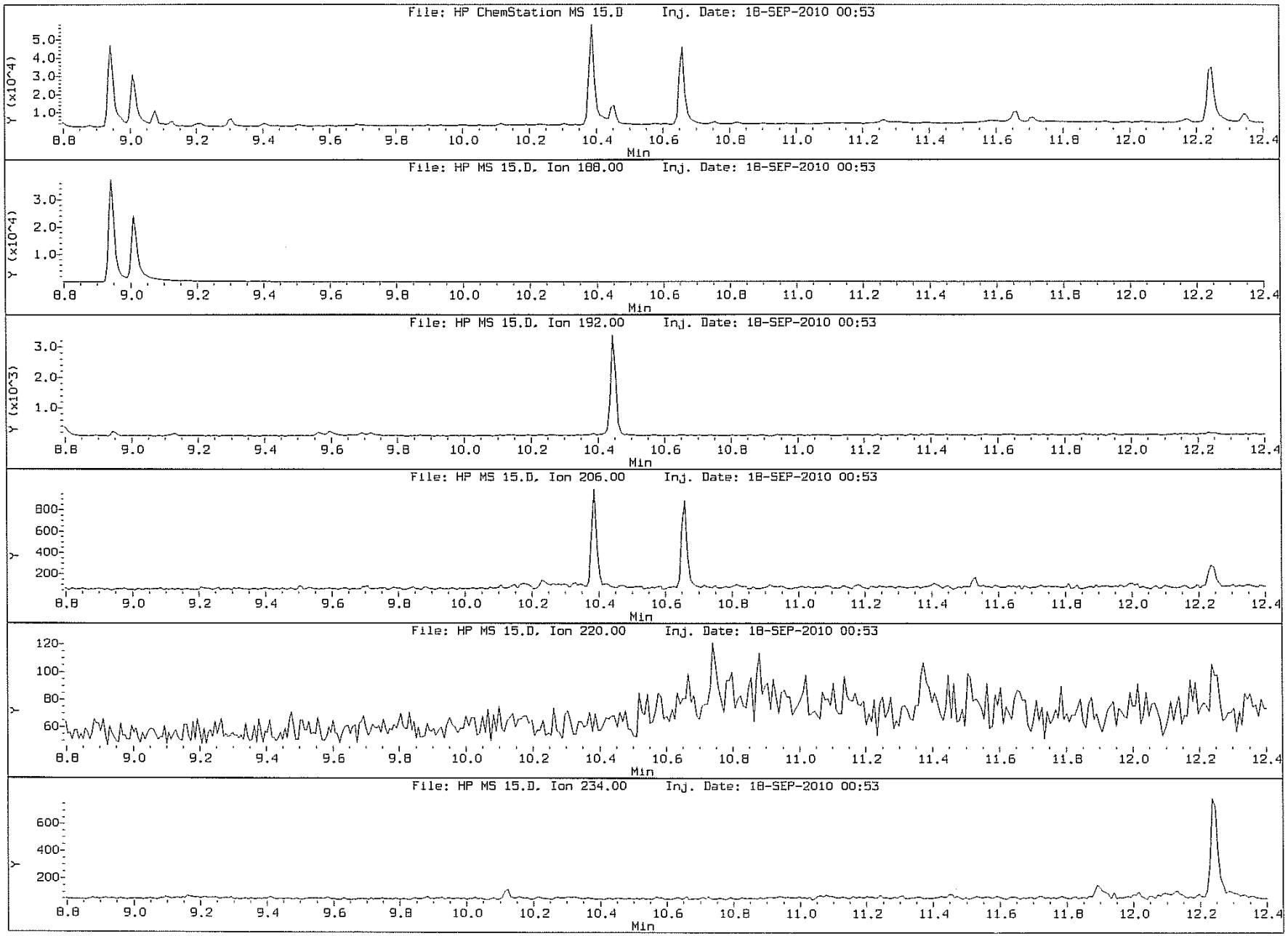
Min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Min
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Min
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1.0
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Min
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Y
800
600
400
200
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
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Y
120
100
80
60
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
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Y
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400
200
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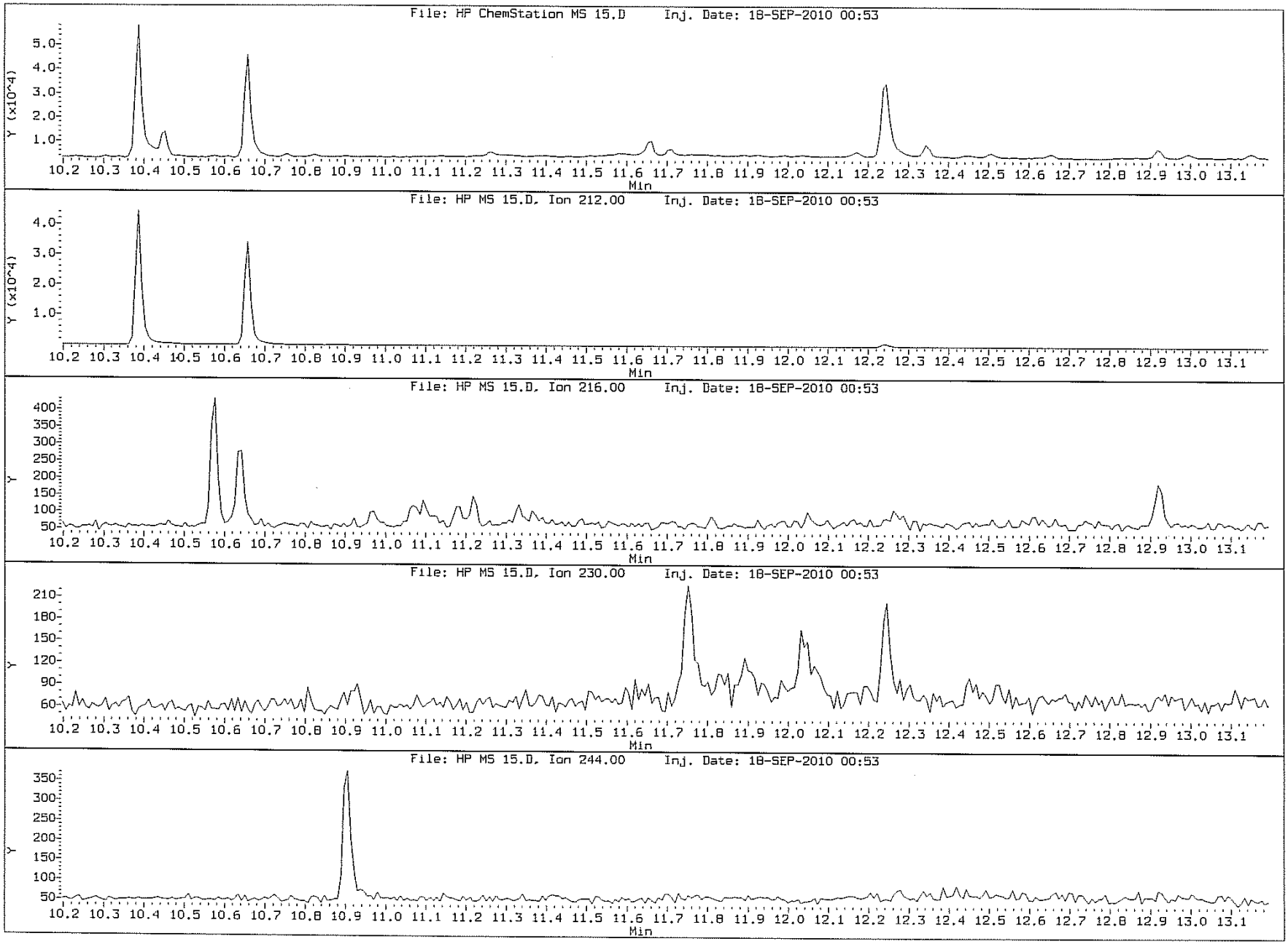
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Y
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300
250
200
150
100
50
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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180
150
120
90
60
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Min
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Y
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300
250
200
150
100
50
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
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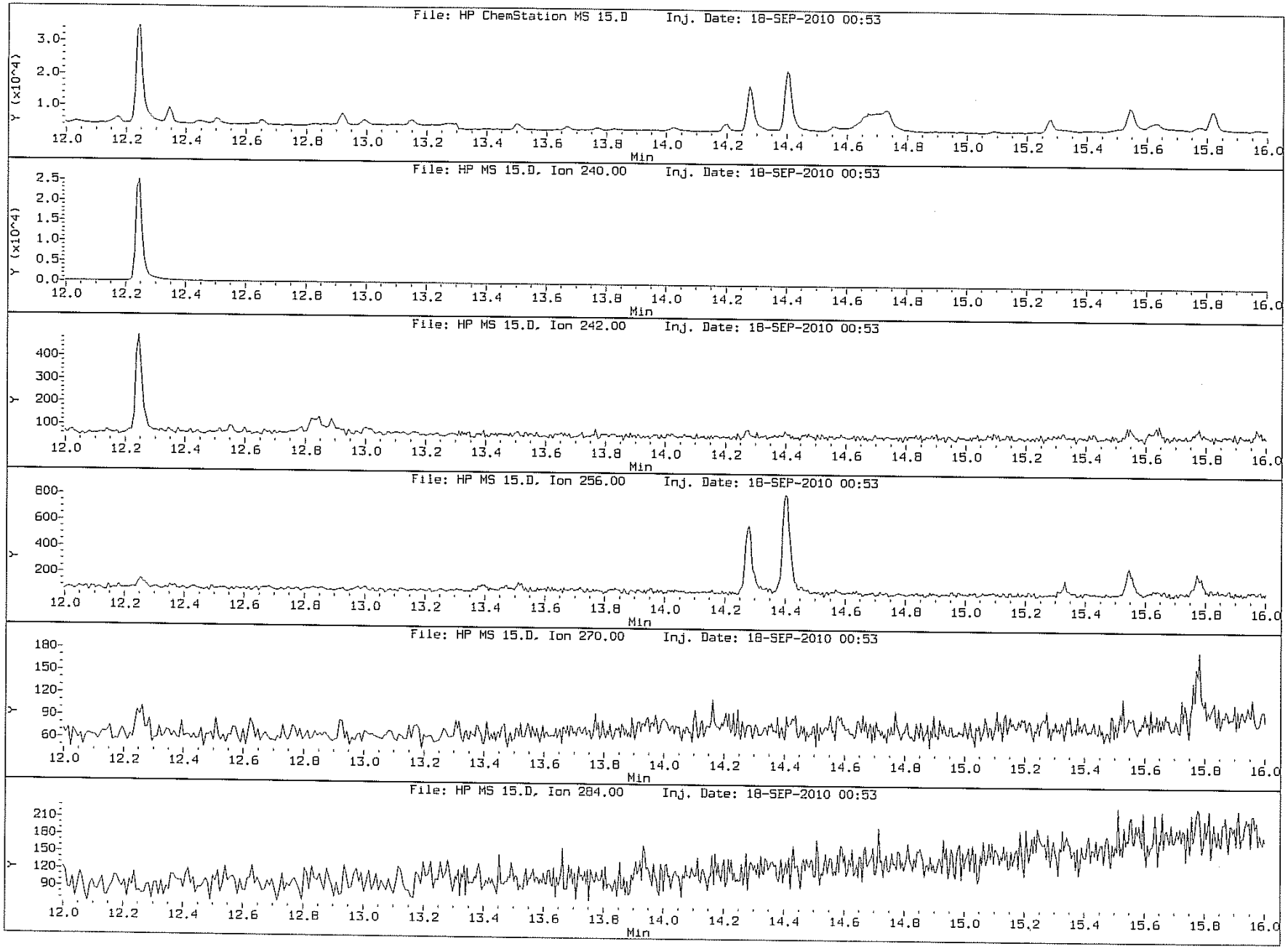
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ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

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Smp Info : 1009543-12C;1009543-12C
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Comment :
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Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/(Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Ws	15.020	Weight of sample extracted (g)
M	60.100	% Moisture
Cpnd Variable		Local Compound Variable

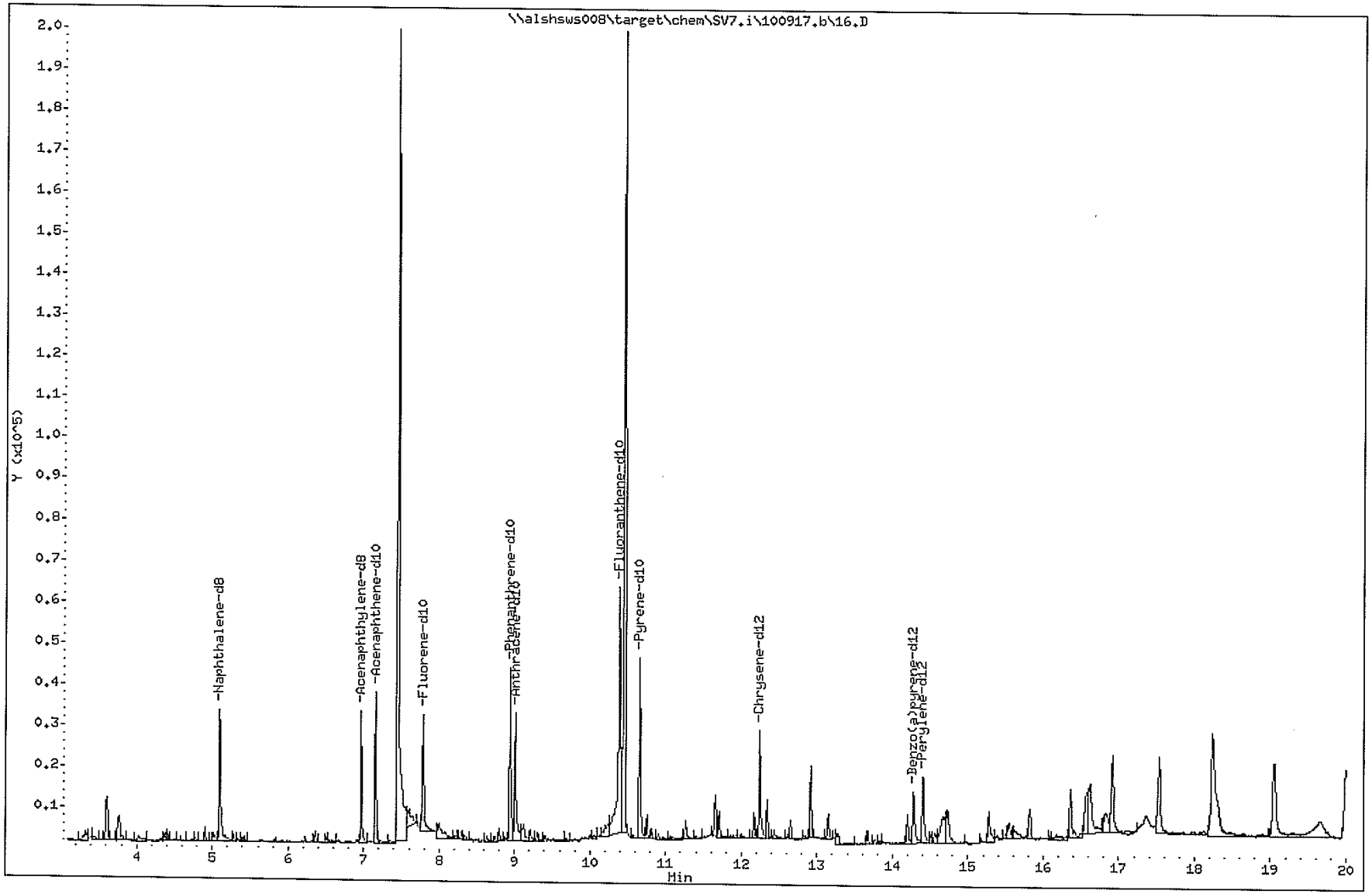
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	5.094	5.102	(1.000)	43186	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	22169	0.40000	
$	12 Acenaphthylene-d8	160	6.966	6.966	(0.974)	30338	0.29454	24.57
*	13 Fluorene-d10	176	7.782	7.782	(1.000)	29429	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.942	(1.000)	40730	0.40000	
$	27 Anthracene-d10	188	9.008	9.008	(1.007)	36331	0.28350	23.65
*	28 Fluoranthene-d10	212	10.386	10.386	(1.000)	45139	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	41065	0.34260	28.58
*	37 Chrysene-d12	240	12.245	12.245	(1.000)	36768	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	22453	0.35628	29.72
*	46 Perylene-d12	264	14.402	14.402	(1.000)	28585	0.40000	

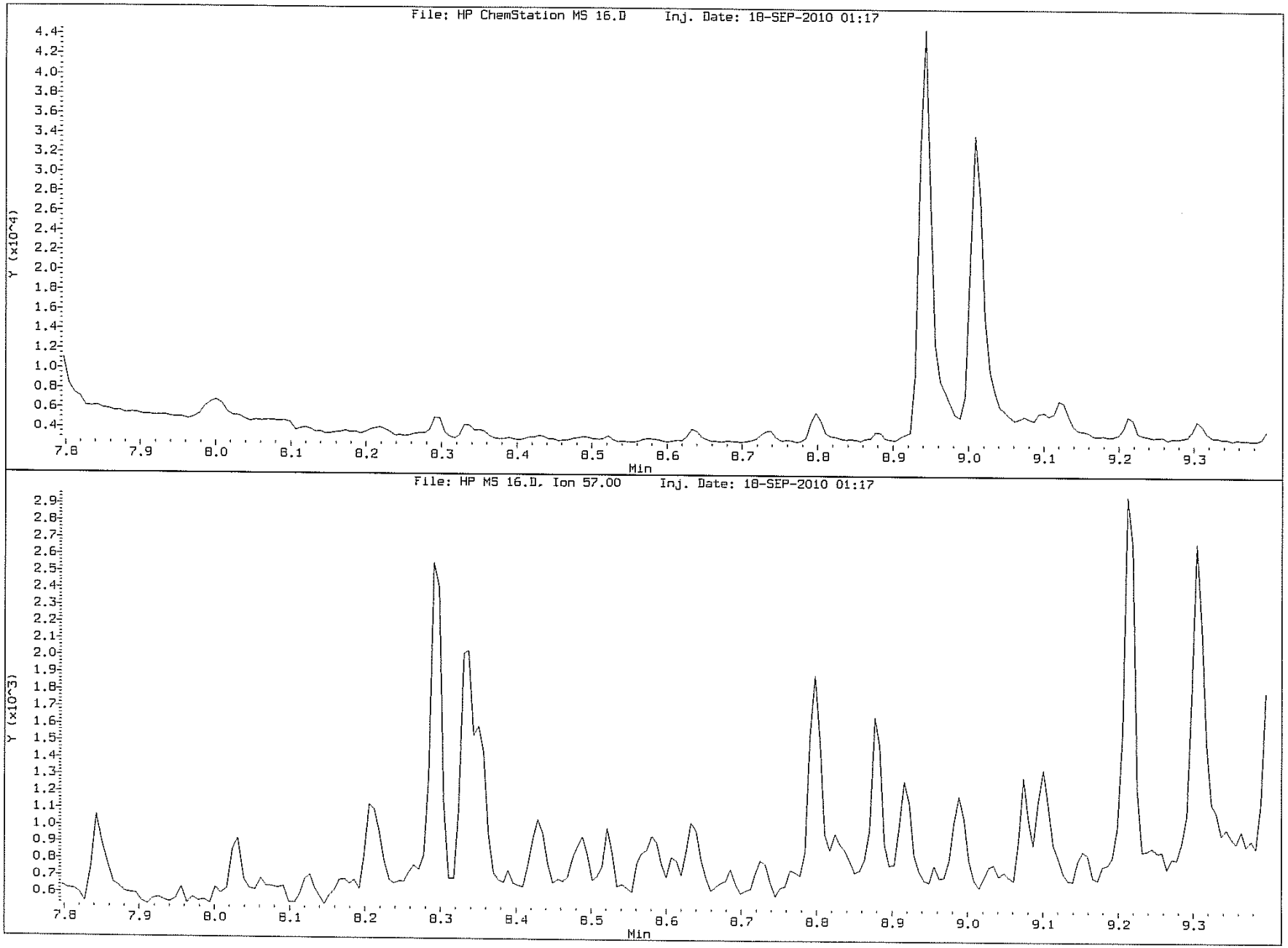
Data File: \\alshsws008\target\chem\SV7.i\100917.b\16.D
Date : 18-SEP-2010 01:17
Client ID: 1009543-12C
Sample Info: 1009543-12C;1009543-12C

Column phase: RTX-5SIL MS

Instrument: SV7.i

Operator: ALSHS,NoUser
Column diameter: 0.28

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2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
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8.8
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9.2
9.3
Min
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1.7
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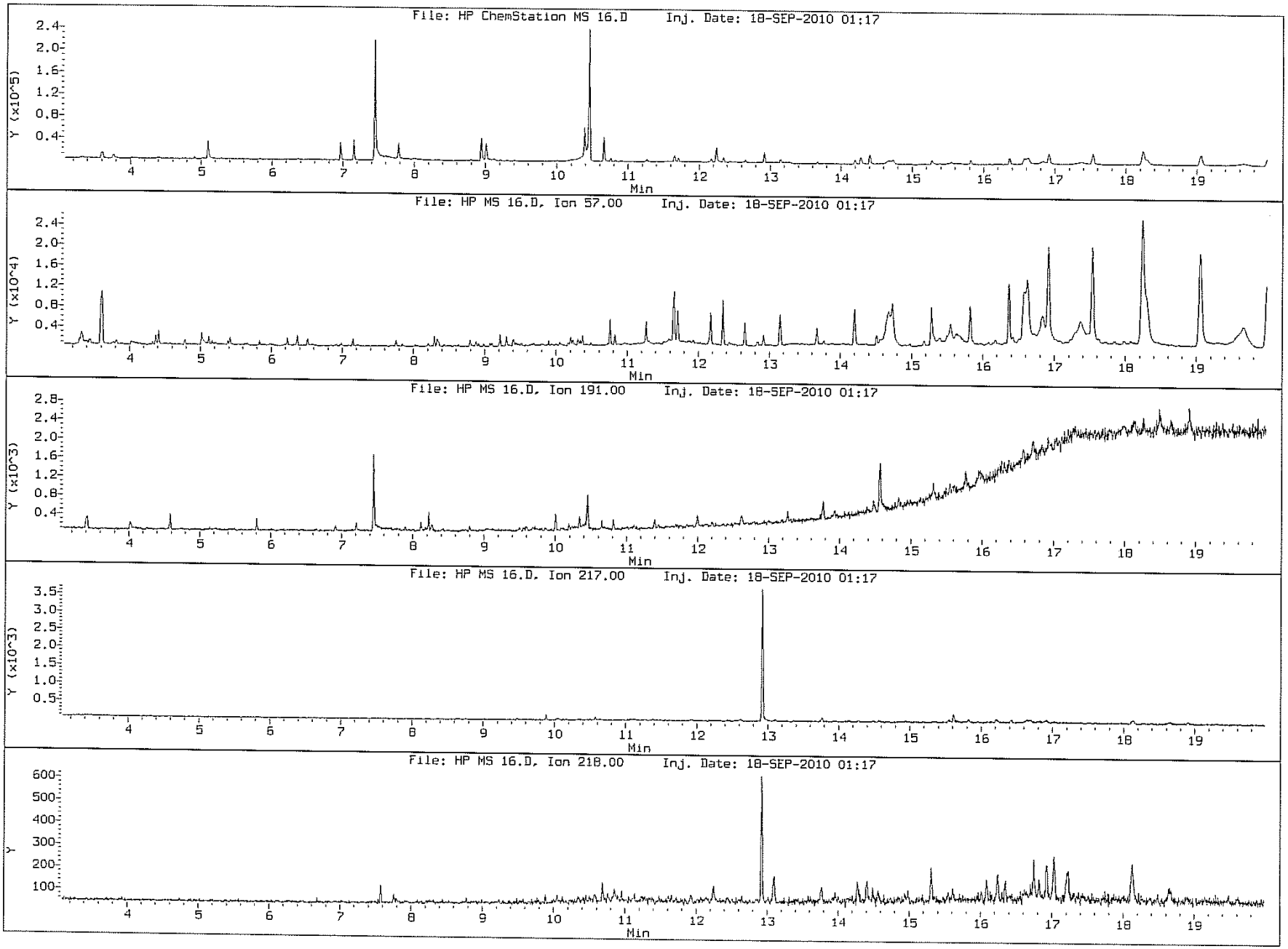
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File: HP MS 16.D, Ion 191.00 Inj. Date: 18-SEP-2010 01:17
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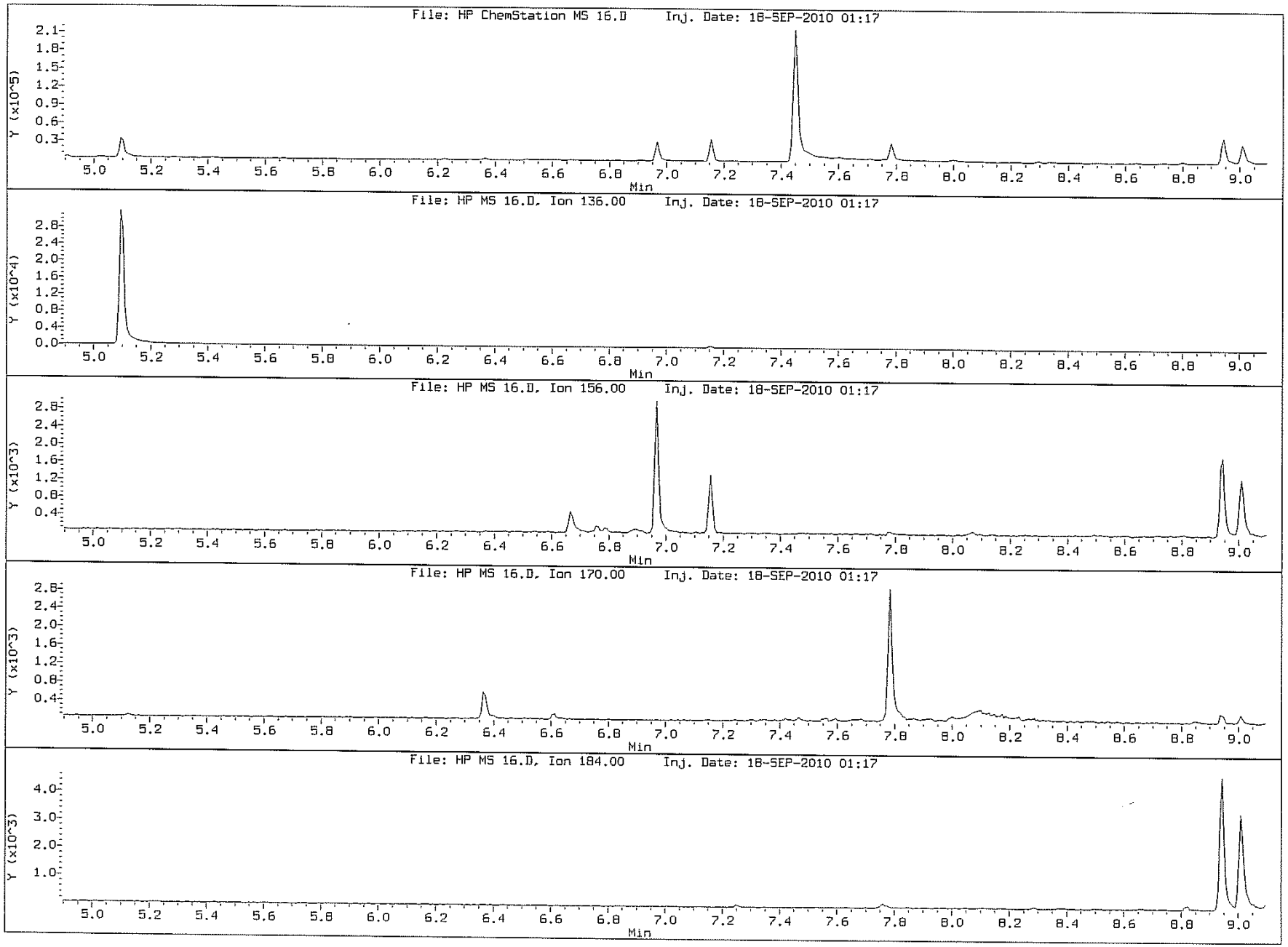
Y
Min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Min
File: HP MS 16.D, Ion 156.00 Inj. Date: 18-SEP-2010 01:17
Y (x10^3)
Min
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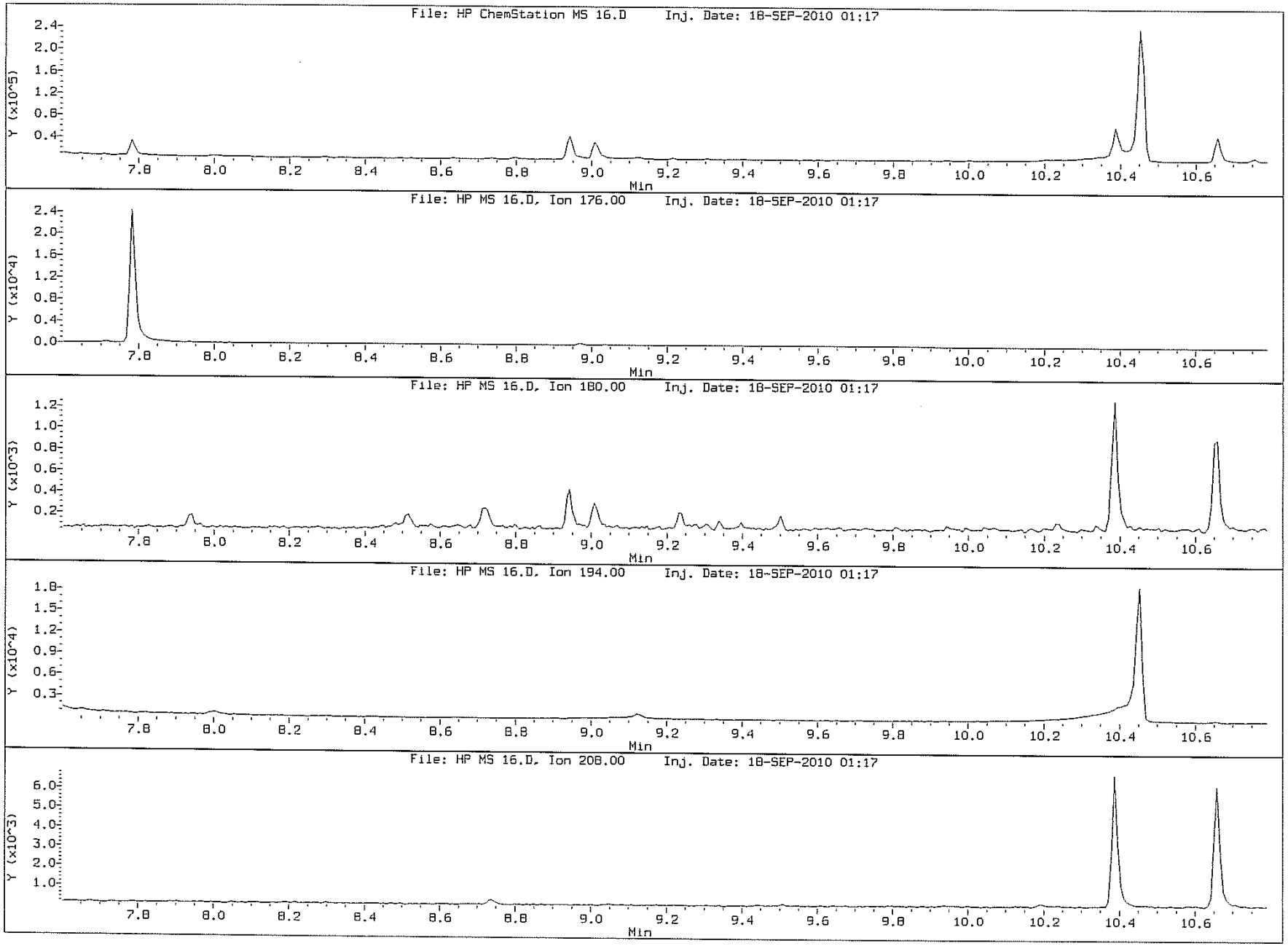
Y (x10^3)
Min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1.6
1.2
0.8
0.4
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 16.D, Ion 176.00 Inj. Date: 18-SEP-2010 01:17
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1.6
1.2
0.8
0.4
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
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1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 16.D, Ion 194.00 Inj. Date: 18-SEP-2010 01:17
Y (x10^4)
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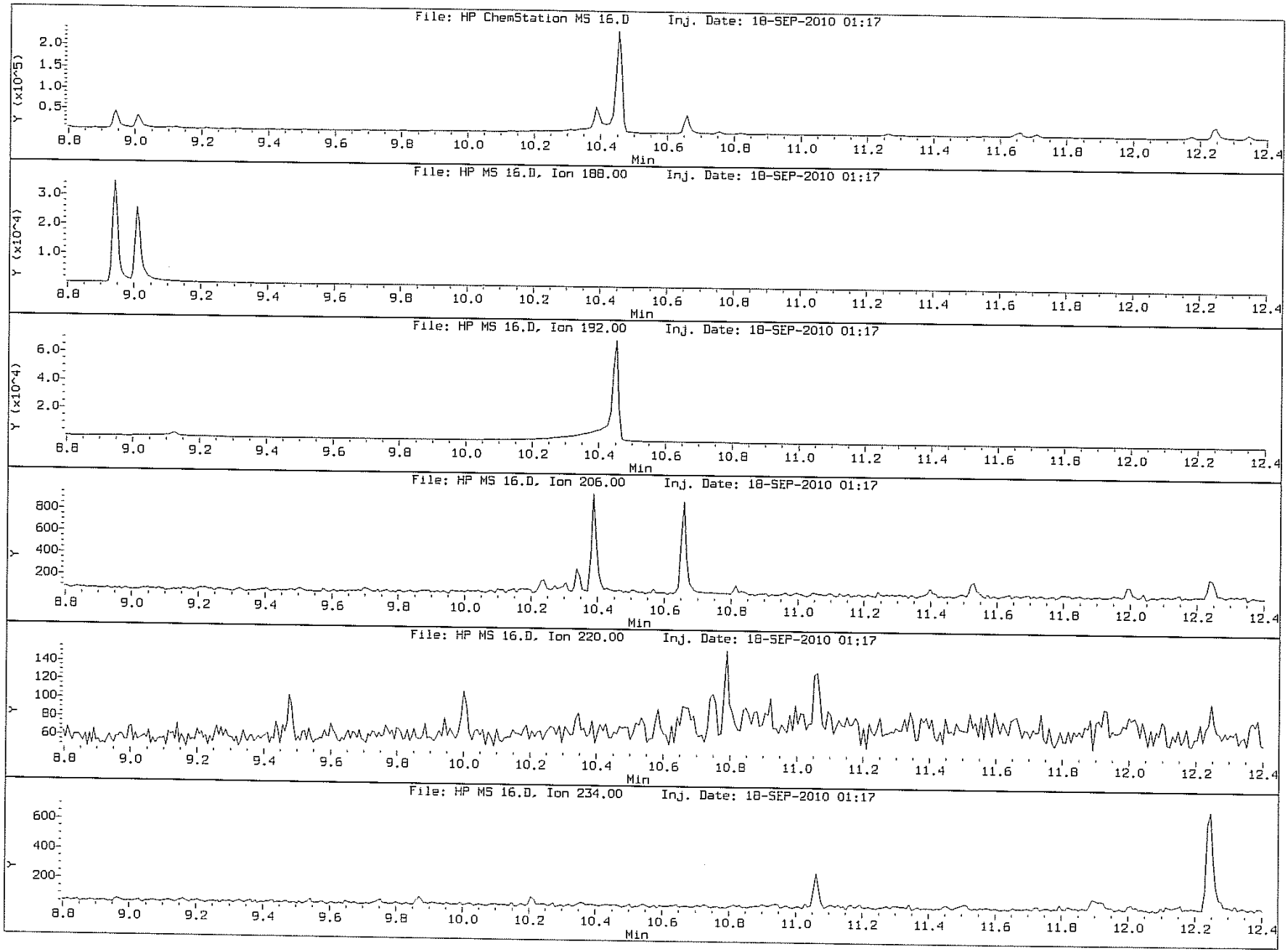
1.5
1.2
0.9
0.6
0.3
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 16.D, Ion 208.00 Inj. Date: 18-SEP-2010 01:17
Y (x10^3)
6.0
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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Min
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Y (x10^4)
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2.0
1.0
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
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4.0
2.0
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 16.D, Ion 206.00 Inj. Date: 18-SEP-2010 01:17
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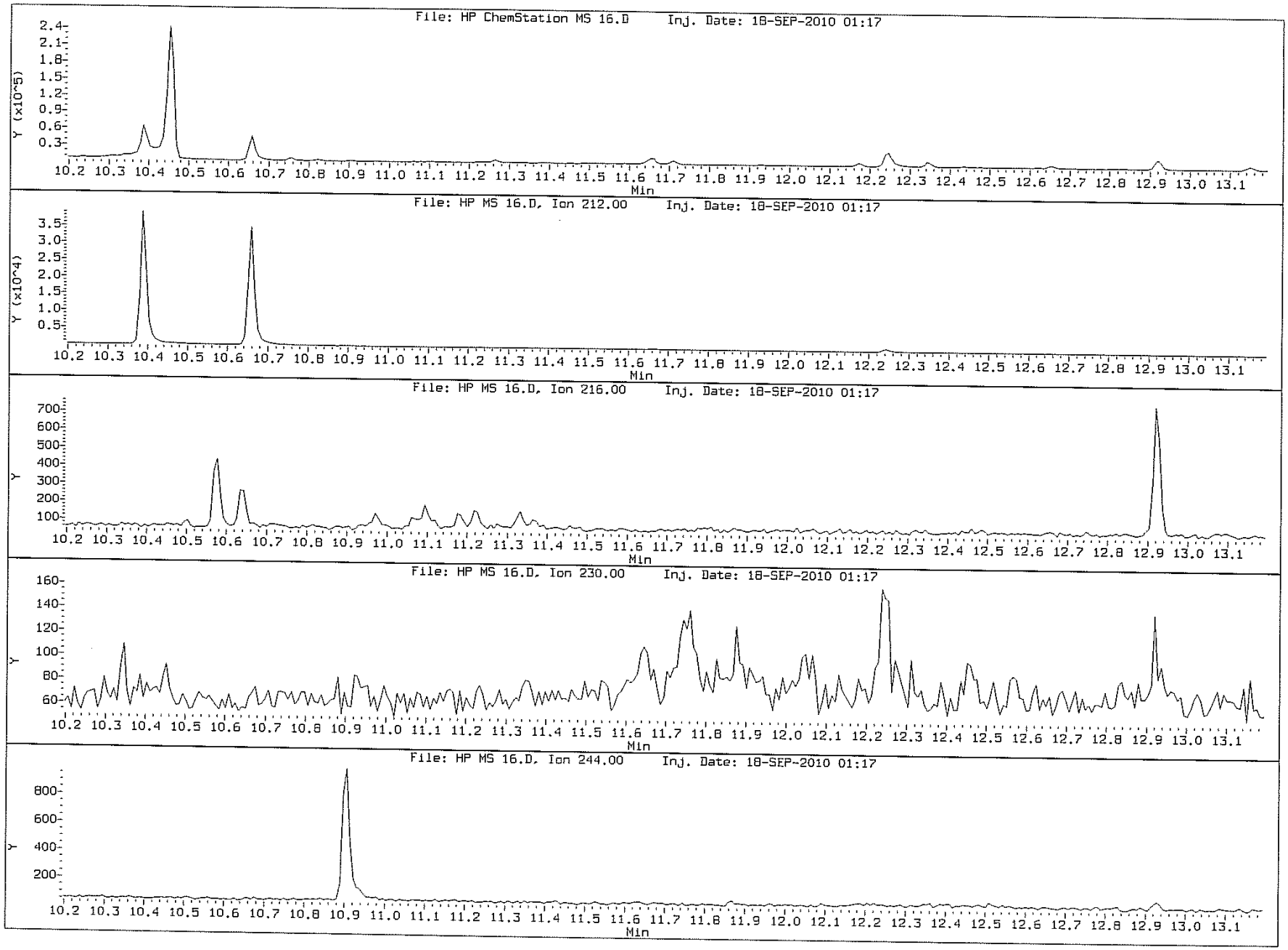
600
400
200
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 16.D, Ion 220.00 Inj. Date: 18-SEP-2010 01:17
Y
140
120
100
80
60
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 16.D, Ion 234.00 Inj. Date: 18-SEP-2010 01:17
Y
600
400
200
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min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1.5
1.2
0.9
0.6
0.3
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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2.5
2.0
1.5
1.0
0.5
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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600
500
400
300
200
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 16.D, Ion 230.00 Inj. Date: 18-SEP-2010 01:17
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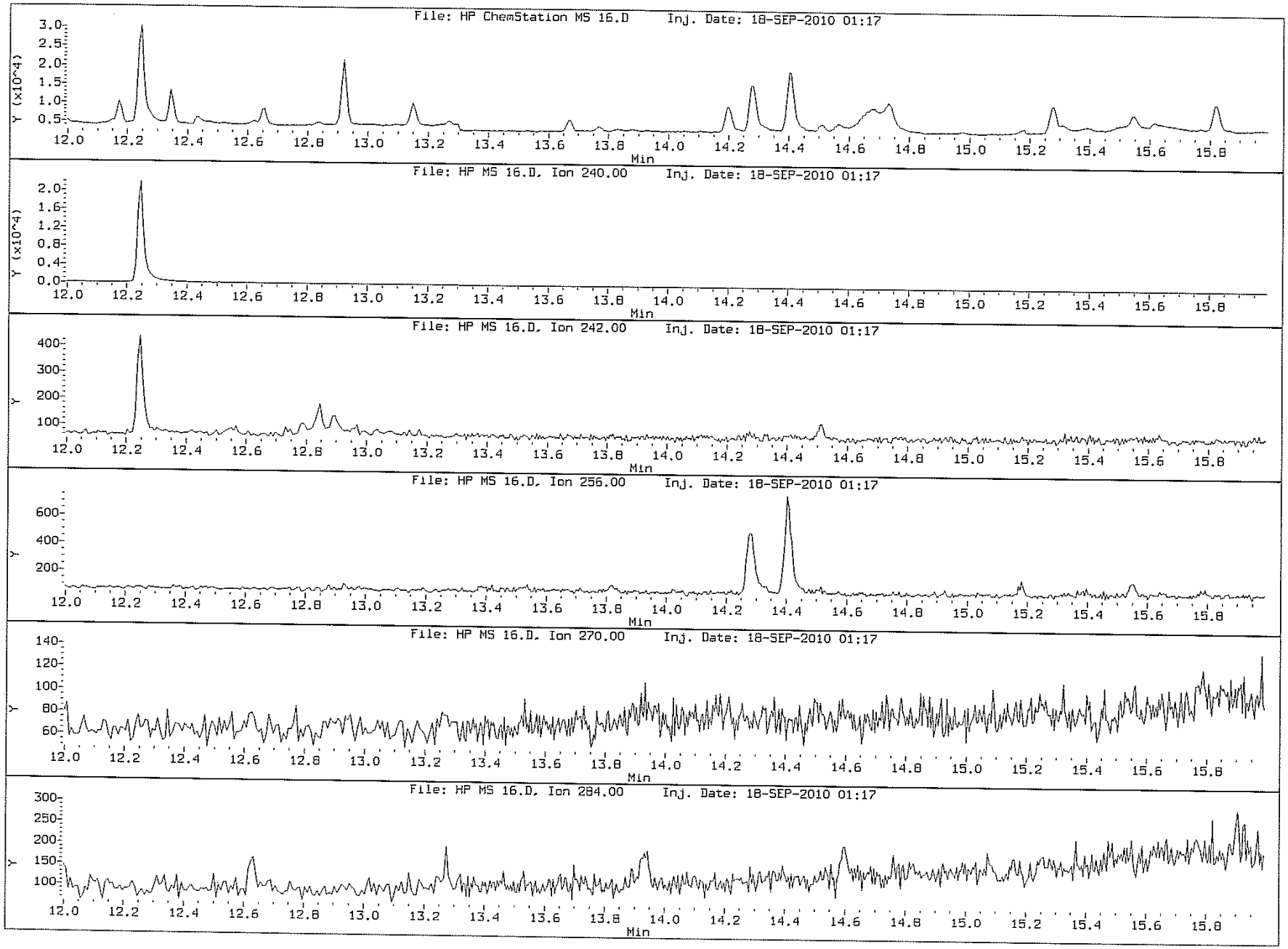
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 16.D, Ion 244.00 Inj. Date: 18-SEP-2010 01:17
Y
800
600
400
200
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min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Min
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Y
Min
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Y
Min
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Y
Min
File: HP MS 16.D, Ion 284.00 Inj. Date: 18-SEP-2010 01:17
Y
Min

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV7 Calibration Date: 09/18/10 Time: 0142

Lab File ID: 17 Init. Calib. Date(s): 09/16/10 09/16/10

Init. Calib. Times: 1509 1712

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	$\overline{RRF}$	RRF0.4	MIN RRF	%D	MAX %D
Naphthalene	1.228	1.185	0.7	3.5	30.0
2-Methylnaphthalene	0.646	0.621	0.4	3.9	30.0
1-Methylnaphthalene	0.799	0.756	0.01	5.4	30.0
2-Methylnaphthalene-d10	0.610	0.603	0.01	1.1	30.0
Acenaphthylene	2.158	2.209	0.9	2.4	30.0
Acenaphthene	1.382	1.376	0.9	0.4	30.0
Fluorene	1.229	1.287	0.9	4.7	30.0
Phenanthrene	1.192	1.168	0.7	2.0	30.0
Anthracene	1.344	1.313	0.7	2.3	30.0
2,3-Dimethylanthracene	0.788	0.811	0.01	2.9	30.0
1-Methylphenanthrene	1.029	0.939	0.01	8.7	30.0
Fluoranthene	1.164	1.073	0.6	7.8	30.0
Pyrene	1.308	1.248	0.6	4.6	30.0
2-Methylfluoranthenes	0.746	0.721	0.01	3.4	30.0
1-Methylpyrene	0.815	0.805	0.01	1.2	30.0
Benzo(a)anthracene	1.030	1.052	0.8	2.1	30.0
Chrysene	1.566	1.477	0.7	5.7	30.0
6-Methylchrysene	0.886	0.886	0.01	0.0	30.0
Benzo(b)fluoranthene	1.285	1.339	0.7	4.2	30.0
Benzo(k)fluoranthene	1.811	1.732	0.7	4.4	30.0
Benzo(e)pyrene	1.435	1.381	0.01	3.8	30.0
Benzo(a)pyrene	1.384	1.372	0.7	0.9	30.0
Perylene	1.509	1.481	0.01	1.8	30.0
Indeno(1,2,3-cd)pyrene	1.009	1.071	0.5	6.1	30.0
Dibenzo(a,h)anthracene	1.224	1.230	0.4	0.5	30.0
Benzo(g,h,i)perylene	1.379	1.351	0.5	2.0	30.0
Acenaphthylene-d8	1.858	1.905	0.01	2.5	30.0
Anthracene-d10	1.258	1.136	0.01	9.7	30.0
Pyrene-d10	1.062	1.023	0.01	3.7	30.0
Benzo(a)pyrene-d12	0.686	0.711	0.01	3.6	30.0

FORM VII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 17 Date Analyzed: 09/18/10

Instrument ID: SV7 Time Analyzed: 0142

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	64176	5.09	32053	7.16	39471	7.78
	UPPER LIMIT	128352	5.59	64106	7.66	78942	8.28
	LOWER LIMIT	32088	4.59	16027	6.66	19736	7.28
	CLIENT SAMPLE NO.						
01	ABLKW1-10091	45245	5.10	25675	7.16	32740	7.78
02	ALCSW1-10091	45799	5.09	23822	7.16	33028	7.78
03	ALCSDW1-1009	45471	5.09	24032	7.16	30028	7.78
04	1009543-04F	46446	5.09	24055	7.16	31263	7.78
05	1009543-05F	45379	5.10	23335	7.16	29965	7.78
06	1009543-07F	45158	5.10	23955	7.16	30869	7.78
07	1009543-08F	46877	5.09	24129	7.16	30969	7.78
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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 internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 17 Date Analyzed: 09/18/10

Instrument ID: SV7 Time Analyzed: 0142

		IS4(PHN) AREA #	RT #	IS5 AREA #	RT #	IS6(CRY) AREA #	RT #
	12 HOUR STD	56624	8.94	64492	10.39	53567	12.25
	UPPER LIMIT	113248	9.44	128984	10.89	107134	12.75
	LOWER LIMIT	28312	8.44	32246	9.89	26784	11.75
	CLIENT SAMPLE NO.						
01	ABLKW1-10091	45833	8.94	52015	10.39	41305	12.25
02	ALCSW1-10091	43607	8.94	48242	10.39	37901	12.25
03	ALCSDW1-1009	42966	8.94	50234	10.39	40974	12.25
04	1009543-04F	42789	8.94	50619	10.39	40415	12.25
05	1009543-05F	40986	8.94	47962	10.39	38162	12.25
06	1009543-07F	41907	8.94	47216	10.39	37390	12.25
07	1009543-08F	42944	8.94	50034	10.39	40422	12.25
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 = Fluoranthene-d10
IS6 (CRY) = Chrysene-d12

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 internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 17 Date Analyzed: 09/18/10

Instrument ID: SV7 Time Analyzed: 0142

		IS7(PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	41274	14.40				
	UPPER LIMIT	82548	14.90				
	LOWER LIMIT	20637	13.90				
	CLIENT SAMPLE NO.						
01	ABLKW1-10091	32798	14.40				
02	ALCSW1-10091	29554	14.40				
03	ALCSDW1-1009	31595	14.40				
04	1009543-04F	32971	14.40				
05	1009543-05F	28876	14.40				
06	1009543-07F	29972	14.40				
07	1009543-08F	31674	14.40				
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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 internal standard area values with an asterisk.
* Values outside of QC limits.

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\17.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 18-SEP-2010 01:42 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : CCV;CCV;2
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Naphthalene-d8	136	5.094	5.102	(1.000)	64176	0.40000	
	2 Naphthalene	128	5.125	5.124	(1.006)	76073	0.40000	0.3862
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.156)	38721	0.40000	0.3955
	3 2-Methylnaphthalene	142	5.925	5.925	(1.163)	39885	0.40000	0.3846
	4 1-Methylnaphthalene	142	6.038	6.038	(1.185)	48529	0.40000	0.3785
$	12 Acenaphthylene-d8	160	6.967	6.966	(0.974)	61073	0.40000	0.4101
	10 Acenaphthylene	152	6.982	6.981	(0.976)	70810	0.40000	0.4095
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	32053	0.40000	
	11 Acenaphthene	153	7.193	7.193	(1.005)	44121	0.40000	0.3984
*	13 Fluorene-d10	176	7.782	7.782	(1.000)	39471	0.40000	
	14 Fluorene	166	7.820	7.819	(1.005)	50799	0.40000	0.4188
*	18 Phenanthrene-d10	188	8.942	8.942	(1.000)	56624	0.40000	
	19 Phenanthrene	178	8.968	8.968	(1.003)	66165	0.40000	0.3922
$	27 Anthracene-d10	188	9.008	9.008	(1.007)	64309	0.40000	0.3610
	20 Anthracene	178	9.034	9.034	(1.010)	74333	0.40000	0.3905
	26 1-Methylphenanthrene	192	9.719	9.718	(1.087)	53154	0.40000	0.3648
*	28 Fluoranthene-d10	212	10.386	10.386	(1.000)	64492	0.40000	
	29 Fluoranthene	202	10.411	10.411	(1.002)	69175	0.40000	0.3686
	25 2,3-Dimethylanthracene	206	10.452	10.452	(1.169)	45905	0.40000	0.4115
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	65953	0.40000	0.3851
	30 Pyrene	202	10.674	10.682	(1.028)	80500	0.40000	0.3817

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
34	2-Methylfluoranthenes	216	10.962	10.962	(1.055)	46475	0.40000	0.3862
35	1-Methylpyrene	216	11.373	11.373	(1.095)	51917	0.40000	0.3950
38	Benzo(a)anthracene	228	12.229	12.228	(0.999)	56330	0.40000	0.4084
* 37	Chrysene-d12	240	12.245	12.245	(1.000)	53567	0.40000	
39	Chrysene	228	12.278	12.278	(1.003)	79142	0.40000	0.3774
44	6-Methylchrysene	242	12.944	12.952	(1.057)	47473	0.40000	0.4000
47	Benzo(b)fluoranthene	252	13.825	13.825	(0.960)	55254	0.40000	0.4167
48	Benzo(k)fluoranthene	252	13.864	13.864	(0.963)	71490	0.40000	0.3825
49	Benzo(e)pyrene	252	14.236	14.236	(0.988)	57002	0.40000	0.3849
$ 45	Benzo(a)pyrene-d12	264	14.275	14.280	(1.166)	38079	0.40000	0.4147
50	Benzo(a)pyrene	252	14.314	14.314	(0.994)	56649	0.40000	0.3968
* 46	Perylene-d12	264	14.402	14.402	(1.000)	41274	0.40000	
51	Perylene	252	14.441	14.441	(1.003)	61133	0.40000	0.3926
52	Indeno(1,2,3-cd)pyrene	276	16.007	16.007	(1.111)	44197	0.40000	0.4243
53	Dibenzo(a,h)anthracene	278	16.046	16.051	(1.114)	50751	0.40000	0.4018
54	Benzo(g,h,i)perylene	276	16.384	16.384	(1.138)	55755	0.40000	0.3918

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Instrument: SV7.i
Operator: ALSHS.NoUser
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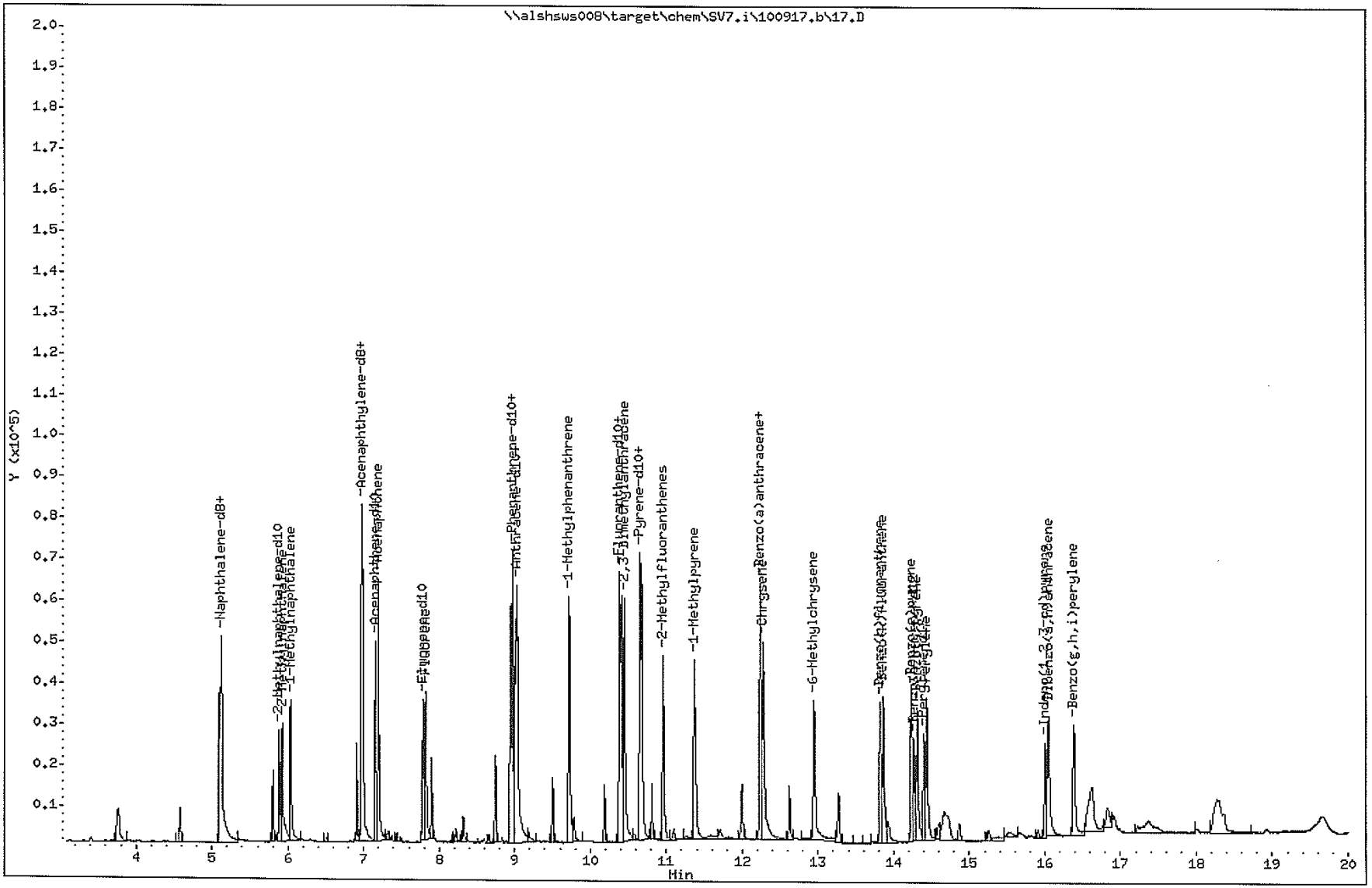

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

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Inj Date : 18-SEP-2010 02:07 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ABLKW1-100917;ABLKW1-100917;3;;BLANK
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 18 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 Naphthalene-d8	136	5.095	5.102	(1.000)	45245	0.40000	
* 9 Acenaphthene-d10	162	7.155	7.155	(1.000)	25675	0.40000	
$ 12 Acenaphthylene-d8	160	6.967	6.966	(0.974)	33927	0.28441	0.2844
* 13 Fluorene-d10	176	7.782	7.782	(1.000)	32740	0.40000	
* 18 Phenanthrene-d10	188	8.942	8.942	(1.000)	45833	0.40000	
$ 27 Anthracene-d10	188	9.008	9.008	(1.007)	42879	0.29734	0.2973
* 28 Fluoranthene-d10	212	10.387	10.386	(1.000)	52015	0.40000	
$ 36 Pyrene-d10	212	10.658	10.658	(1.026)	43063	0.31178	0.3118
* 37 Chrysene-d12	240	12.245	12.245	(1.000)	41305	0.40000	
$ 45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	21982	0.31050	0.3105
* 46 Perylene-d12	264	14.402	14.402	(1.000)	32798	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\18.D
Date : 18-SEP-2010 02:07
Client ID: ABLKW1-100917
Instrument: SV7.i
Sample Info: ABLKW1-100917;ABLKW1-100917;3;;BLANK
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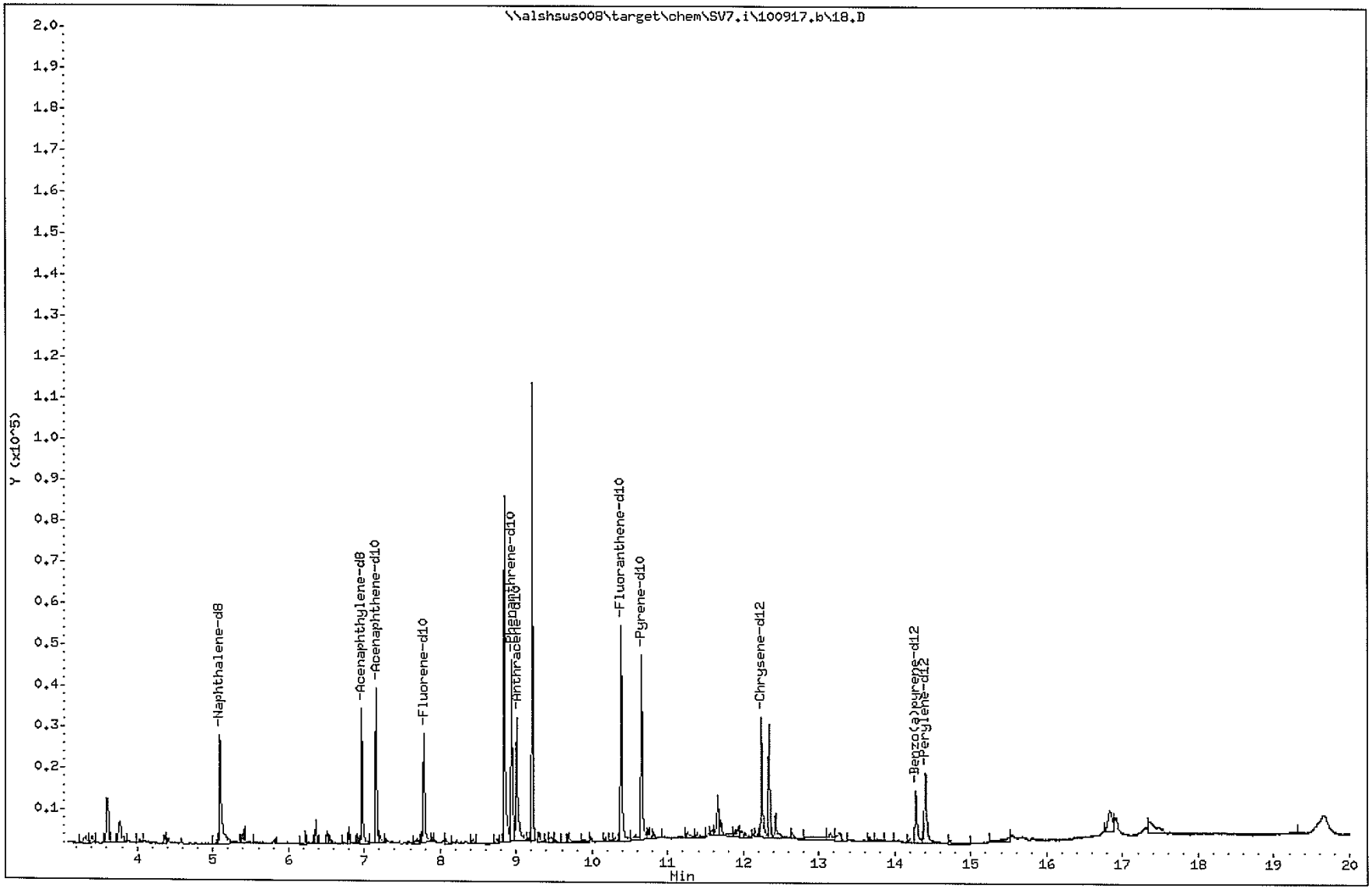
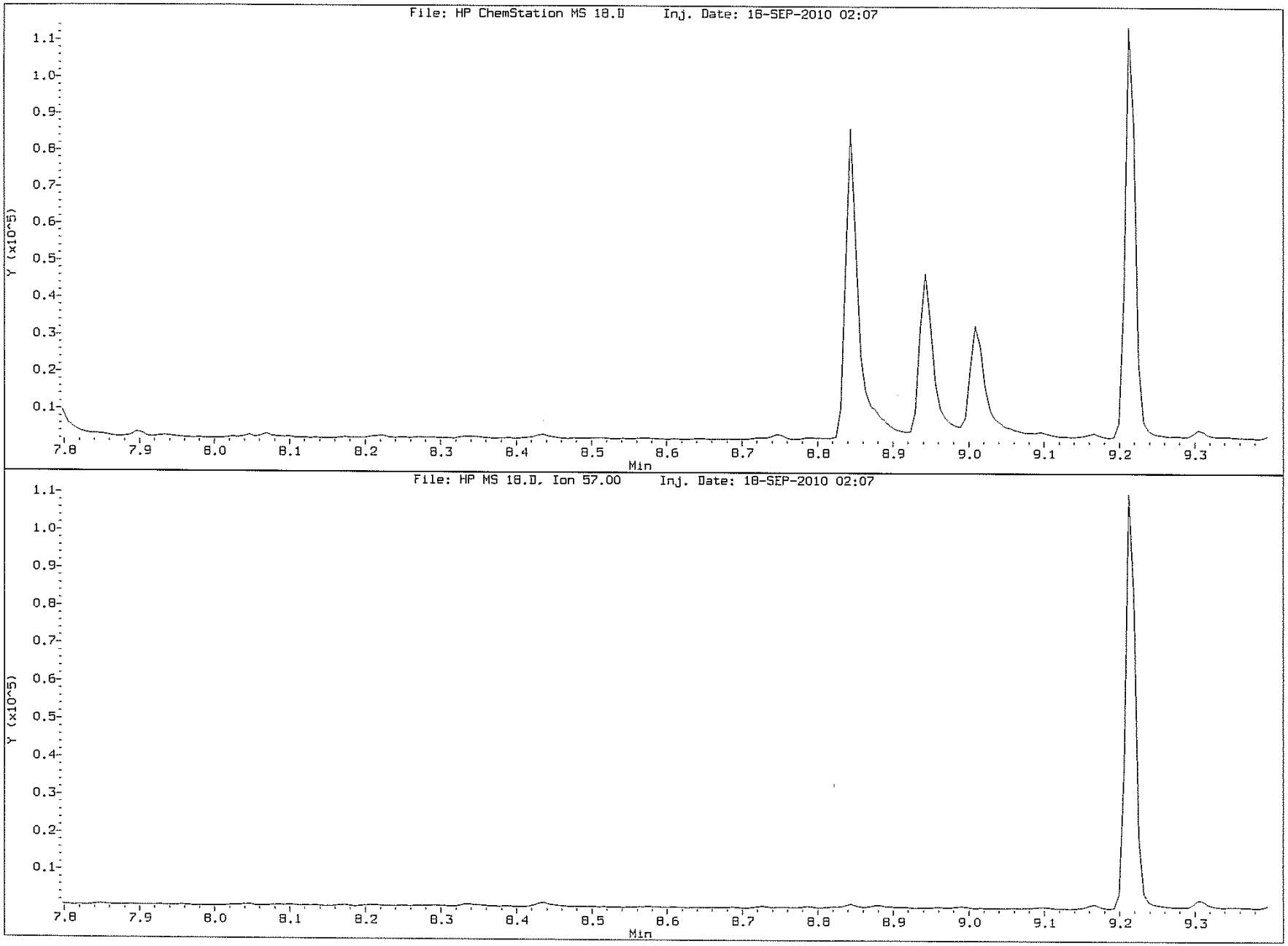
Operator: ALSHS.NoUser
Column phase: RTX-5SIL MS
Column diameter: 0.28

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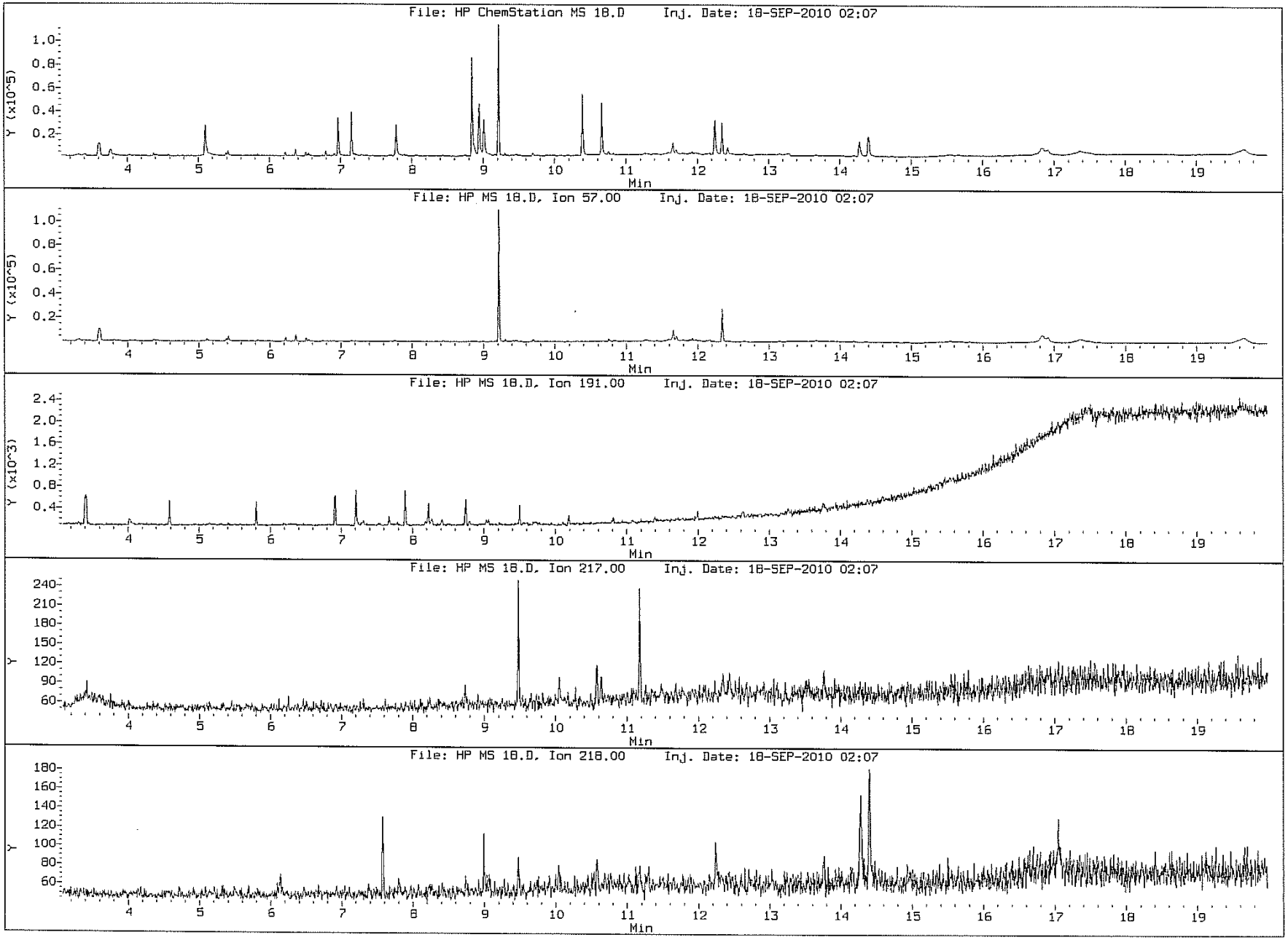
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
File: HP MS 18.D, Ion 57.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^5)
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min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Y (x10^5)
Min
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Y (x10^3)
Min
File: HP MS 18.D, Ion 217.00 Inj. Date: 18-SEP-2010 02:07
Y
Min
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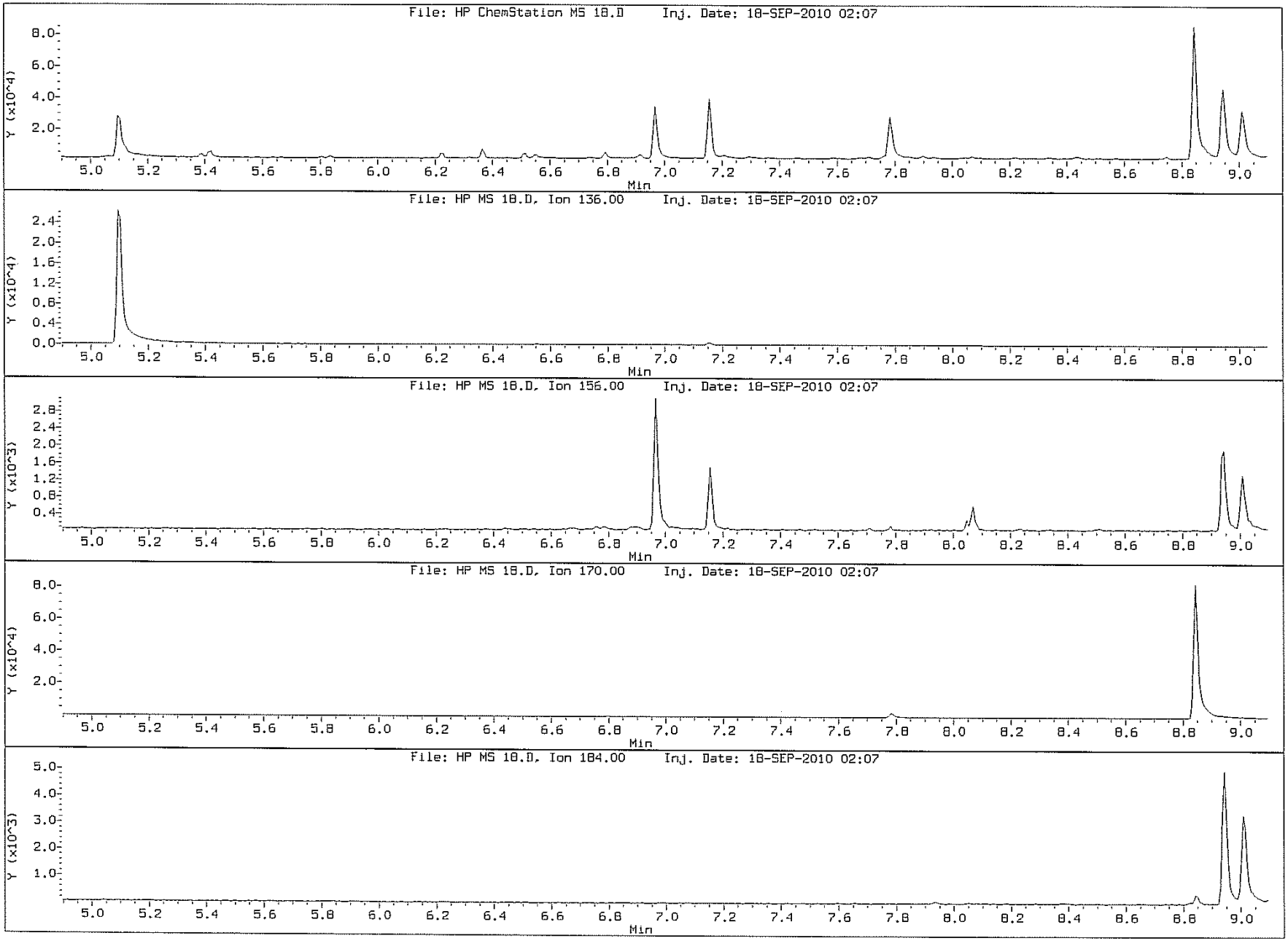
Y
Min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Y (x10^4)
Min
File: HP MS 18.D, Ion 136.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^4)
Min
File: HP MS 18.D, Ion 156.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^3)
Min
File: HP MS 18.D, Ion 170.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^4)
Min
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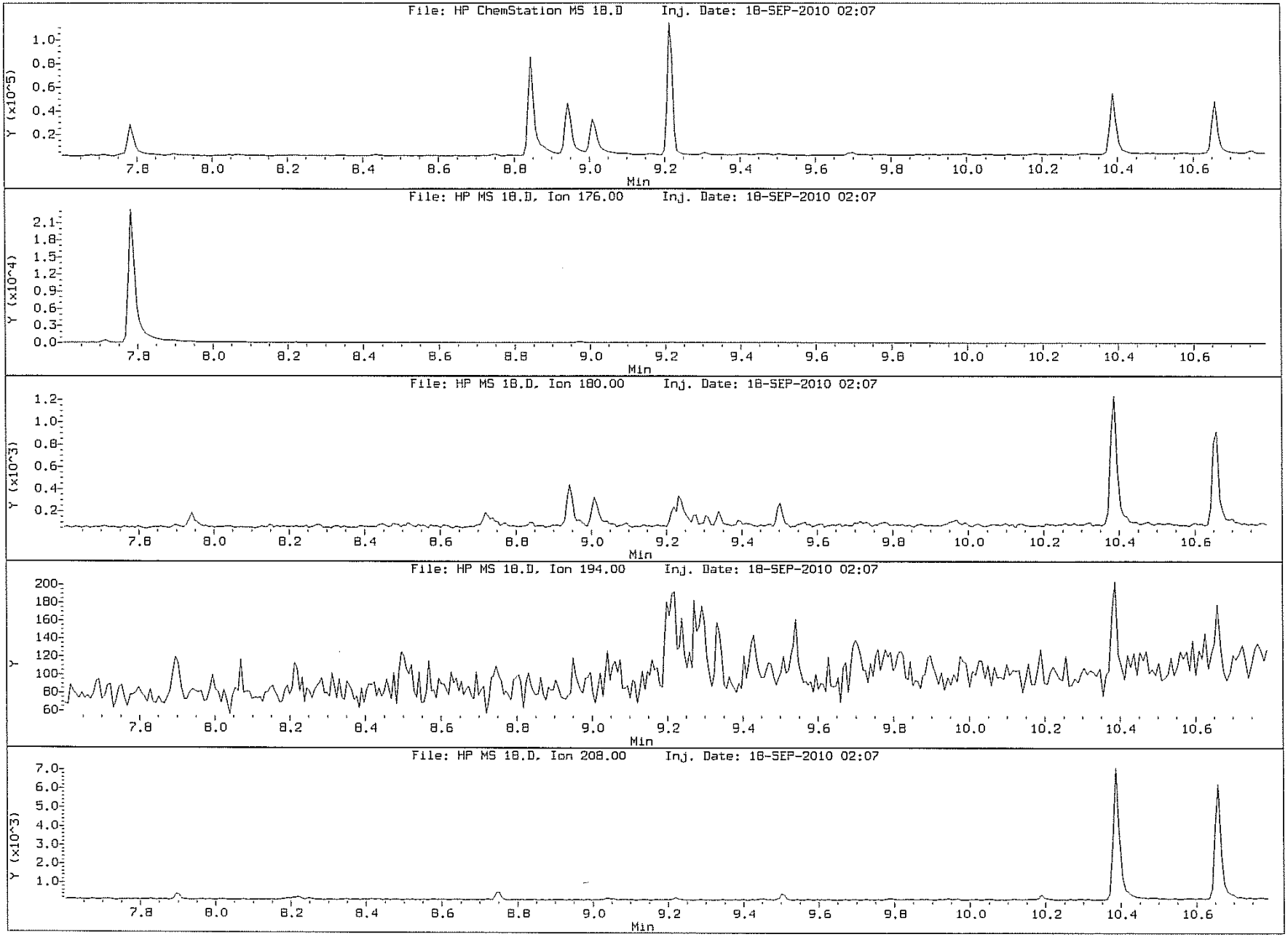
Y (x10^3)
Min


File: HP ChemStation MS 18.D Inj. Date: 18-SEP-2010 02:07
Y (x10^5)
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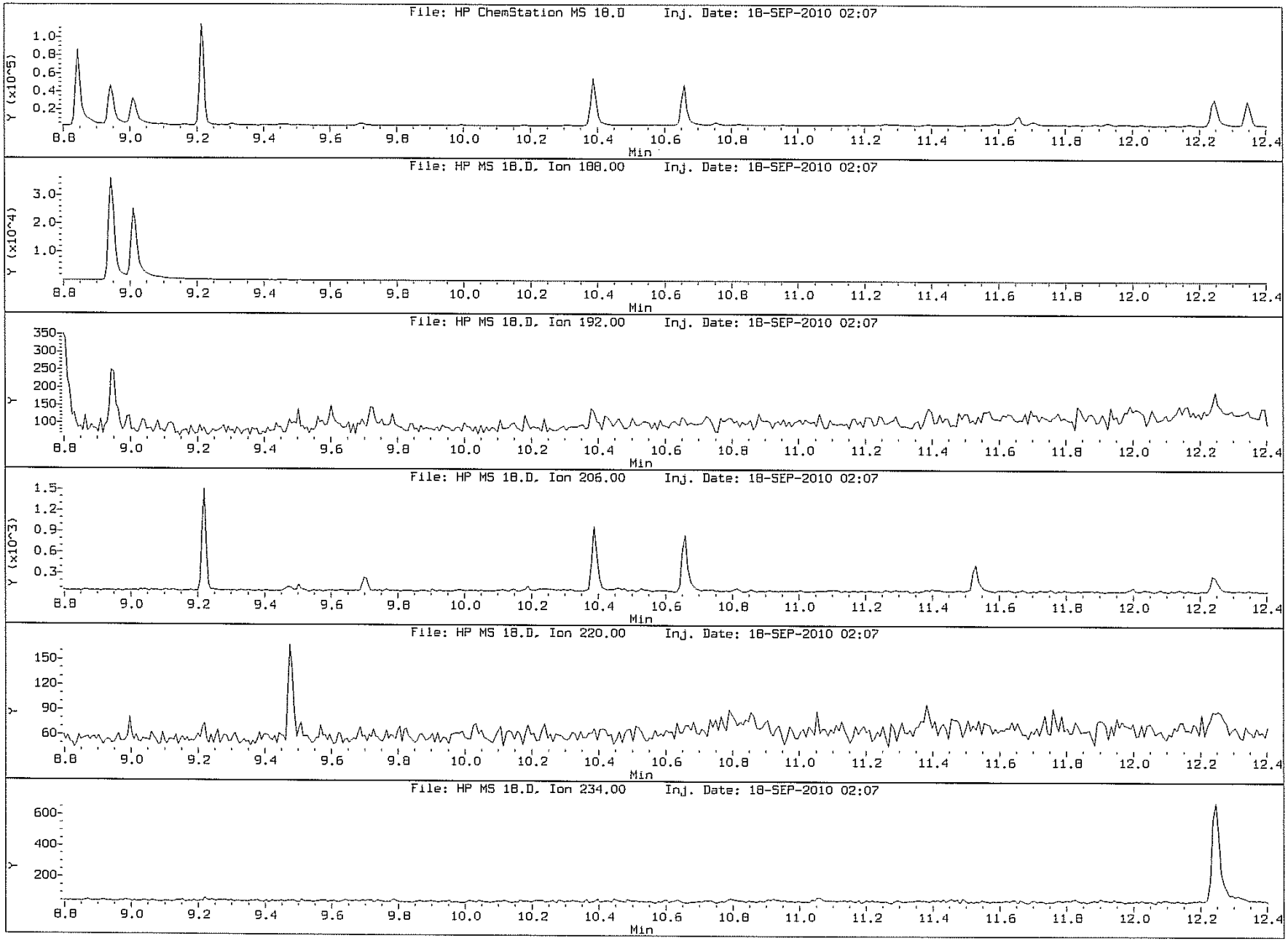
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 18.D, Ion 176.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^4)
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 18.D, Ion 180.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^3)
1.2
1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 18.D, Ion 194.00 Inj. Date: 18-SEP-2010 02:07
Y
200
180
160
140
120
100
80
60
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 18.D, Ion 208.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^3)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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Y (x10^5)
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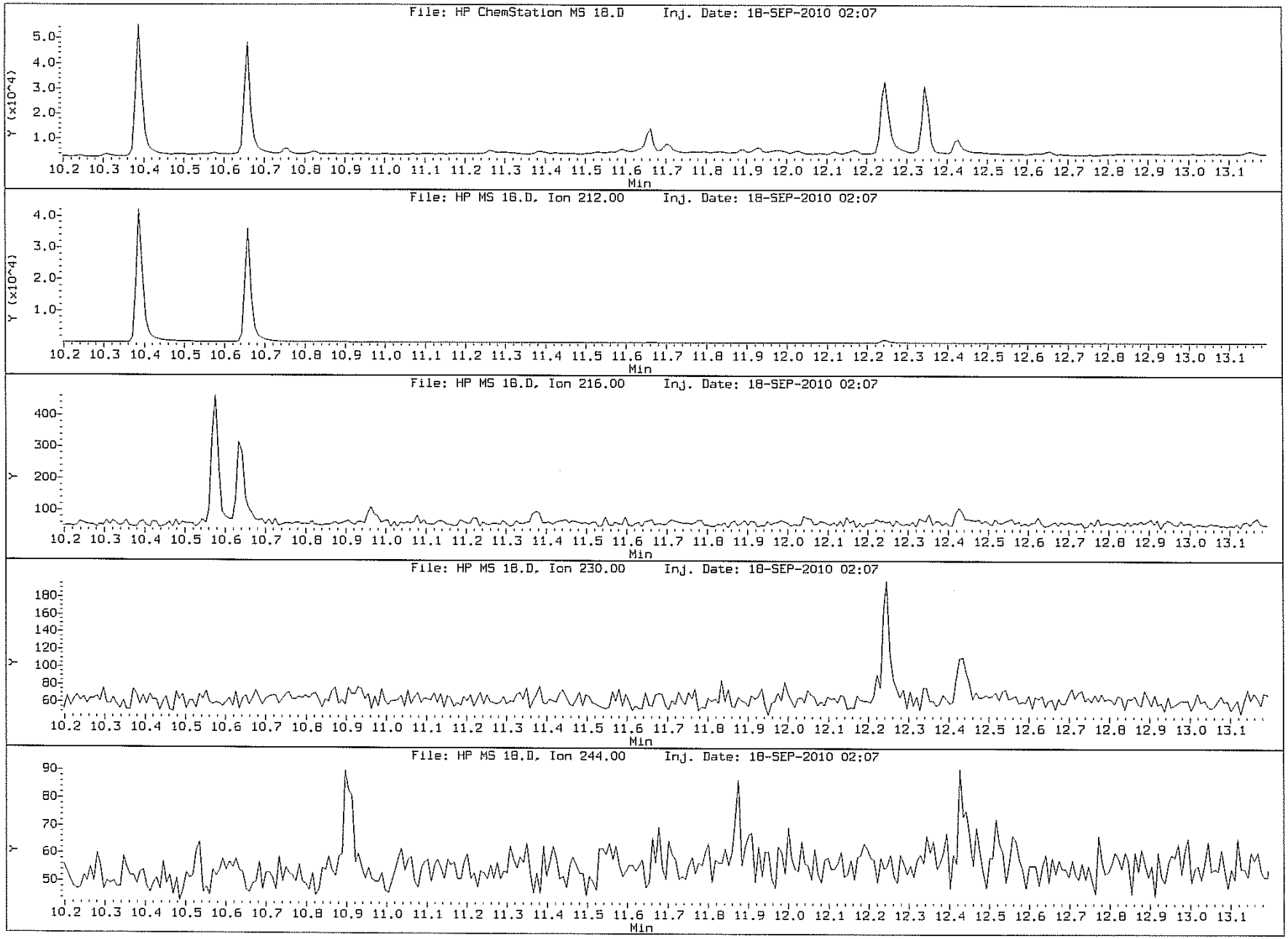
0.8
0.6
0.4
0.2
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 18.D, Ion 188.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^4)
3.0
2.0
1.0
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 18.D, Ion 192.00 Inj. Date: 18-SEP-2010 02:07
Y
350
300
250
200
150
100
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 18.D, Ion 206.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^3)
1.5
1.2
0.9
0.6
0.3
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 18.D, Ion 220.00 Inj. Date: 18-SEP-2010 02:07
Y
150
120
90
60
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 18.D, Ion 234.00 Inj. Date: 18-SEP-2010 02:07
Y
600
400
200
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min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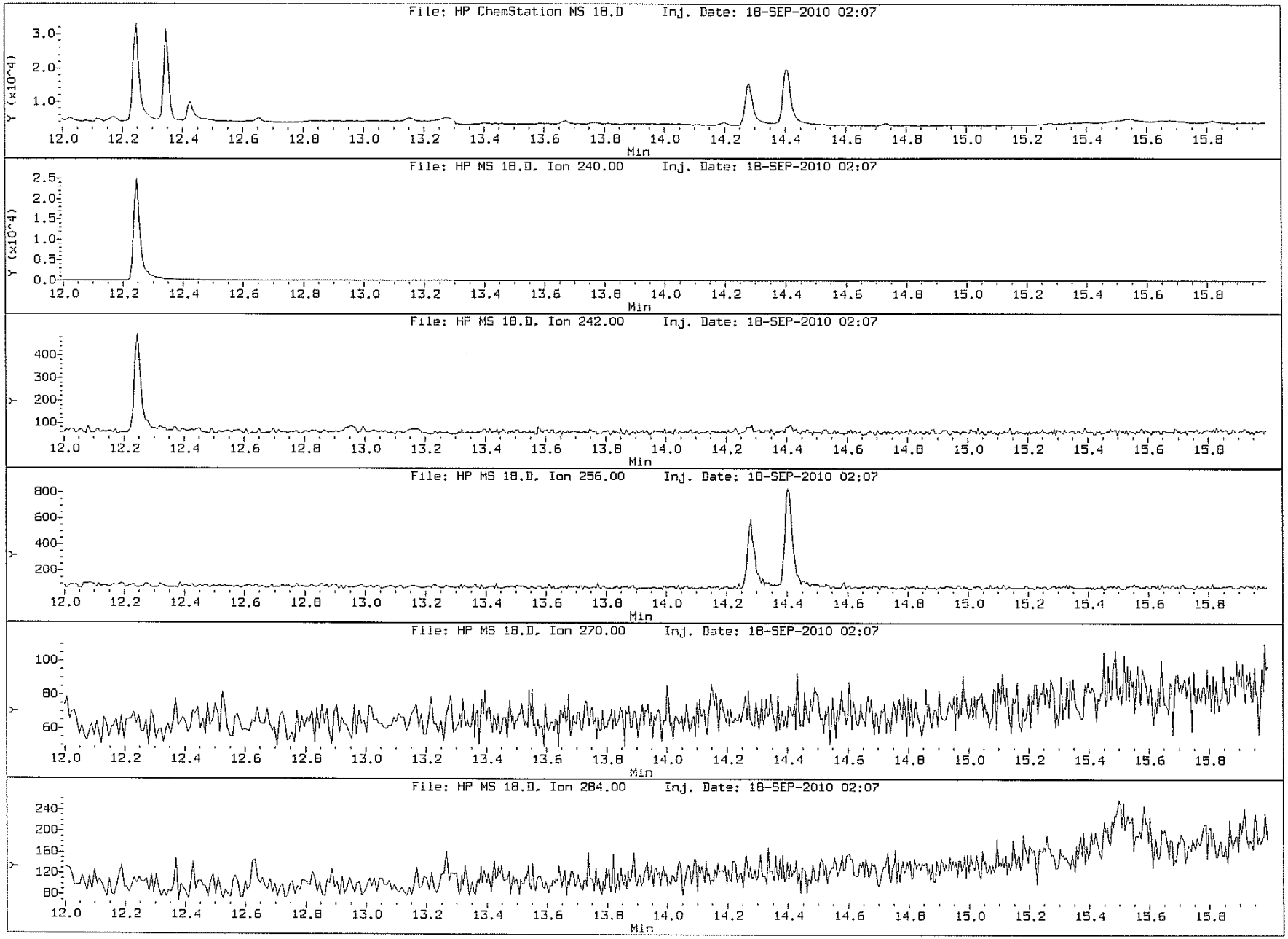
3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 18.D, Ion 212.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^4)
4.0
3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 18.D, Ion 216.00 Inj. Date: 18-SEP-2010 02:07
Y
400
300
200
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 18.D, Ion 230.00 Inj. Date: 18-SEP-2010 02:07
Y
180
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 18.D, Ion 244.00 Inj. Date: 18-SEP-2010 02:07
Y
90
80
70
60
50
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min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File: HP MS 18.D, Ion 240.00 Inj. Date: 18-SEP-2010 02:07
Y (x10^4)
Min
File: HP MS 18.D, Ion 242.00 Inj. Date: 18-SEP-2010 02:07
Y
Min
File: HP MS 18.D, Ion 256.00 Inj. Date: 18-SEP-2010 02:07
Y
Min
File: HP MS 18.D, Ion 270.00 Inj. Date: 18-SEP-2010 02:07
Y
Min
File: HP MS 18.D, Ion 284.00 Inj. Date: 18-SEP-2010 02:07
Y
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

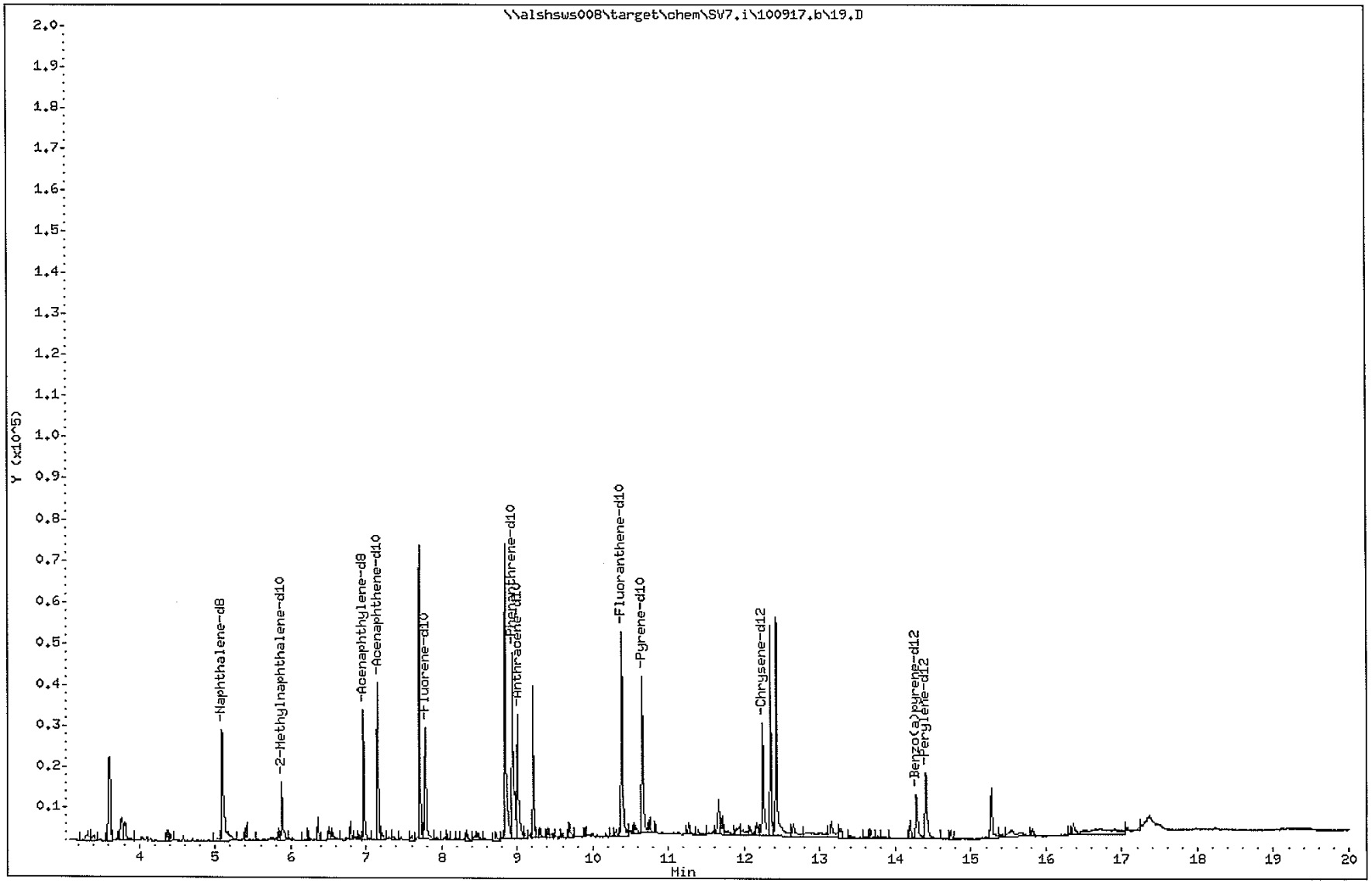
Data file : \\alshsws008\target\chem\SV7.i\100917.b\19.D
Lab Smp Id: ALCSW1-100917 Client Smp ID: ALCSW1-100917
Inj Date : 18-SEP-2010 02:31 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ALCSW1-100917;ALCSW1-100917;3;;LCS
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 19 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Naphthalene-d8	136	5.094	5.102	(1.000)	45799	0.40000	
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.156)	19038	0.27248	0.2725
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	23822	0.40000	
$	12 Acenaphthylene-d8	160	6.967	6.966	(0.974)	31241	0.28226	0.2823
*	13 Fluorene-d10	176	7.782	7.782	(1.000)	33028	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.942	(1.000)	43607	0.40000	
$	27 Anthracene-d10	188	9.008	9.008	(1.007)	37187	0.27103	0.2710
*	28 Fluoranthene-d10	212	10.386	10.386	(1.000)	48242	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	37460	0.29242	0.2924
*	37 Chrysene-d12	240	12.245	12.245	(1.000)	37901	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	18797	0.28935	0.2894
*	46 Perylene-d12	264	14.402	14.402	(1.000)	29554	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\19.D
Date : 18-SEP-2010 02:31
Client ID: ALCSW1-100917
Instrument: SV7.i
Sample Info: ALCSW1-100917;ALCSW1-100917;3;;LCS
Purge Volume: 1000.0
Operator: ALSHS.HoUser
Column phase: RTX-5SIL MS
Column diameter: 0.28



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\20.D
Lab Smp Id: ALCSDW1-100917 Client Smp ID: ALCSDW1-100917
Inj Date : 18-SEP-2010 02:56 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ALCSDW1-100917;ALCSDW1-100917;3;;LCSD
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 20 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

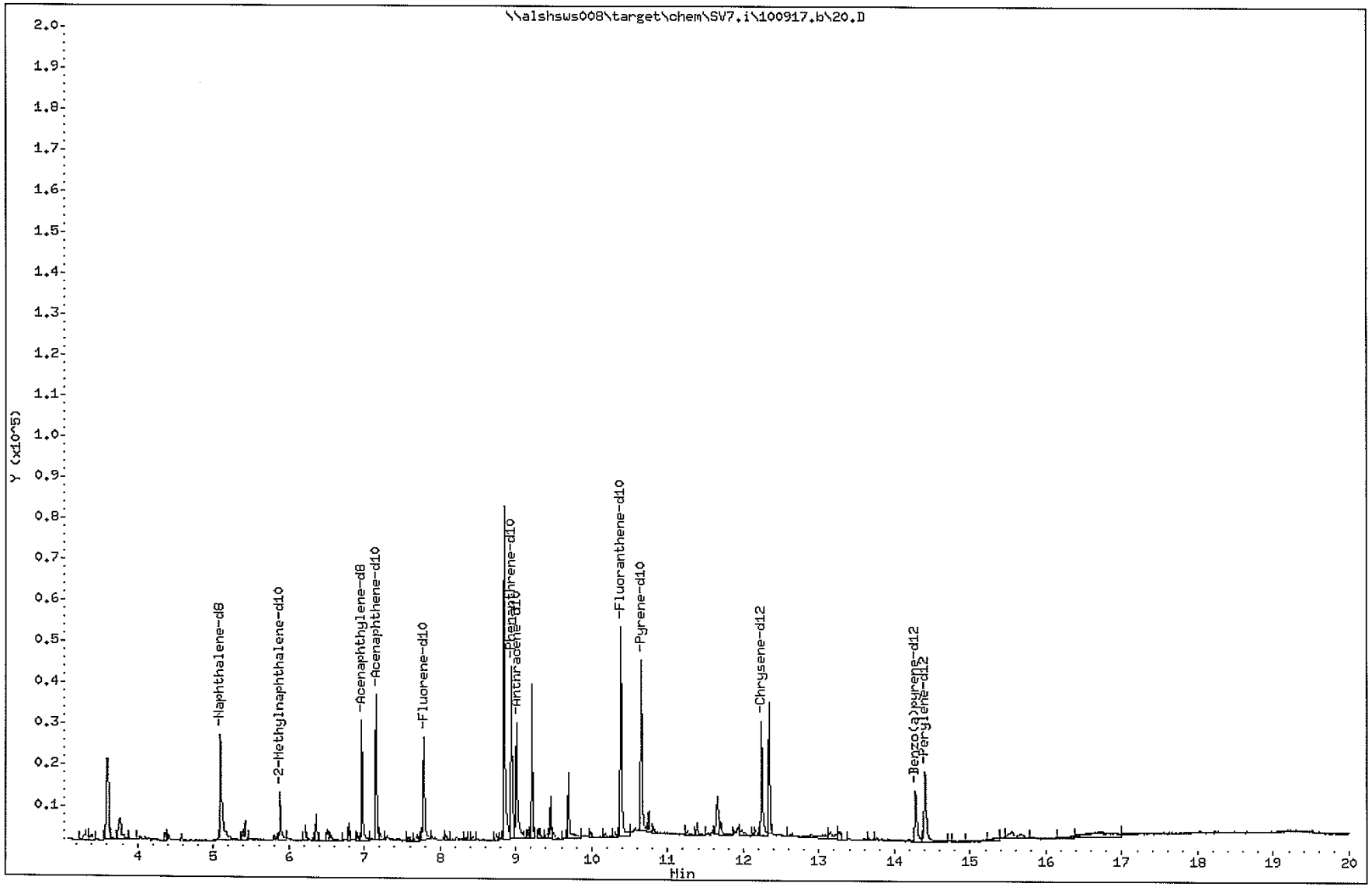
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Naphthalene-d8	136	5.094	5.102	(1.000)	45471	0.40000	
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.156)	18893	0.27236	0.2724
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	24032	0.40000	
$	12 Acenaphthylene-d8	160	6.967	6.966	(0.974)	30340	0.27173	0.2717
*	13 Fluorene-d10	176	7.782	7.782	(1.000)	30028	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.942	(1.000)	42966	0.40000	
$	27 Anthracene-d10	188	9.008	9.008	(1.007)	38052	0.28148	0.2815
*	28 Fluoranthene-d10	212	10.386	10.386	(1.000)	50234	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	42360	0.31756	0.3176
*	37 Chrysene-d12	240	12.245	12.245	(1.000)	40974	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	21695	0.30892	0.3089
*	46 Perylene-d12	264	14.402	14.402	(1.000)	31595	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\20.D
Date : 18-SEP-2010 02:56
Client ID: ALCSDW1-100917
Sample Info: ALCSDW1-100917;ALCSDW1-100917;3;;LCSD
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i

Operator: ALSHS.NoUser
Column diameter: 0.28



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\28.D
Lab Smp Id: 1009543-04F Client Smp ID: 1009543-04F
Inj Date : 18-SEP-2010 06:12 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : 1009543-04F;1009543-04F
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

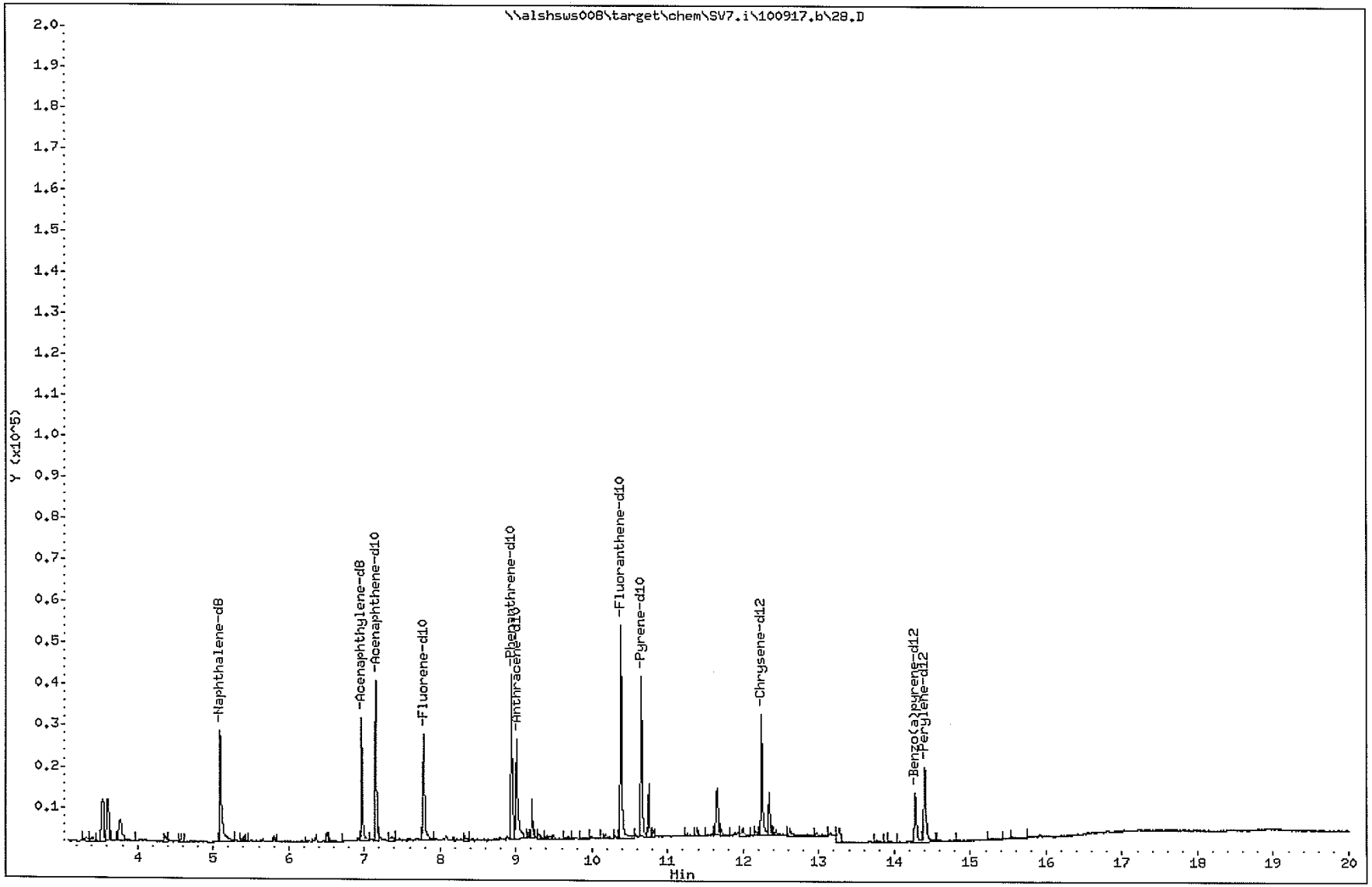
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

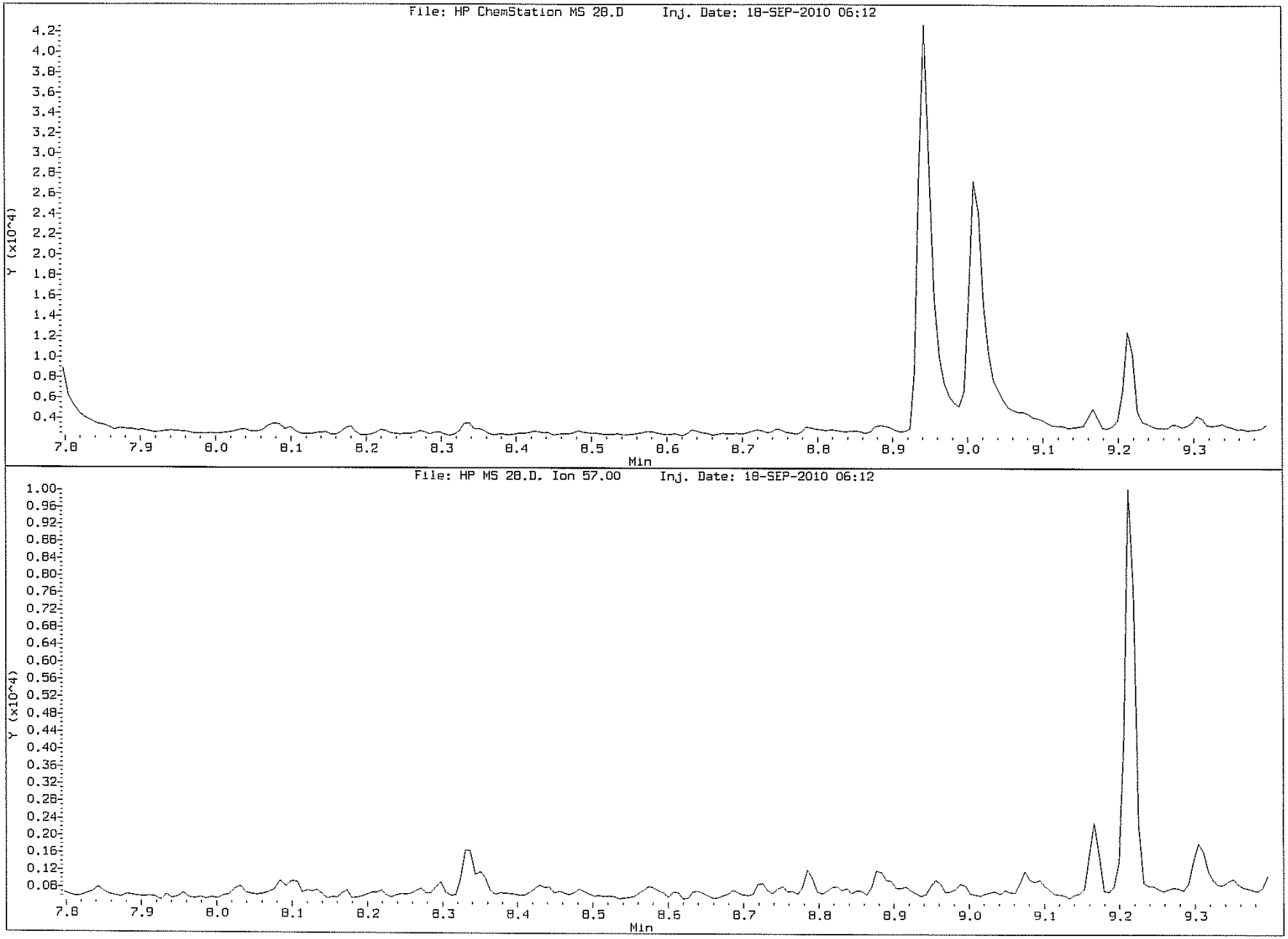
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Naphthalene-d8	136	5.094	5.102	(1.000)	46446	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	24055	0.40000	
$	12 Acenaphthylene-d8	160	6.967	6.966	(0.974)	31098	0.27825	0.2782
*	13 Fluorene-d10	176	7.782	7.782	(1.000)	31263	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.942	(1.000)	42789	0.40000	
$	27 Anthracene-d10	188	9.008	9.008	(1.007)	37572	0.27907	0.2791
*	28 Fluoranthene-d10	212	10.386	10.386	(1.000)	50619	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	38434	0.28594	0.2859
*	37 Chrysene-d12	240	12.245	12.245	(1.000)	40415	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	19851	0.28657	0.2866
*	46 Perylene-d12	264	14.402	14.402	(1.000)	32971	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\28.D
Date : 18-SEP-2010 06:12
Client ID: 1009543-04F
Sample Info: 1009543-04F;1009543-04F
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28

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3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
File: HP MS 28.D, Ion 57.00 Inj. Date: 18-SEP-2010 06:12
Y (x10^4)
1.00
0.96
0.92
0.88
0.84
0.80
0.76
0.72
0.68
0.64
0.60
0.56
0.52
0.48
0.44
0.40
0.36
0.32
0.28
0.24
0.20
0.16
0.12
0.08
7.8
7.9
8.0
8.1
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9.1
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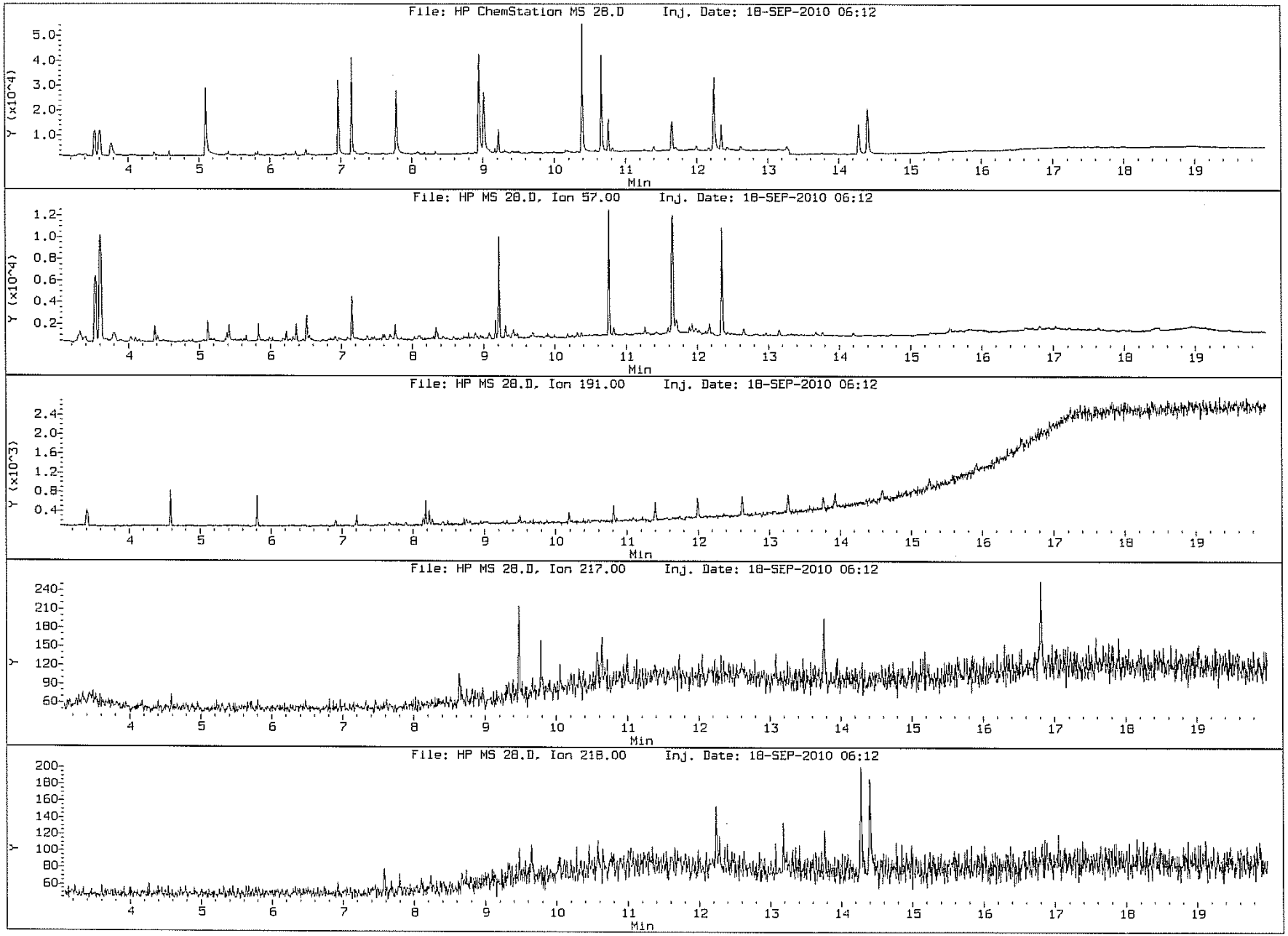
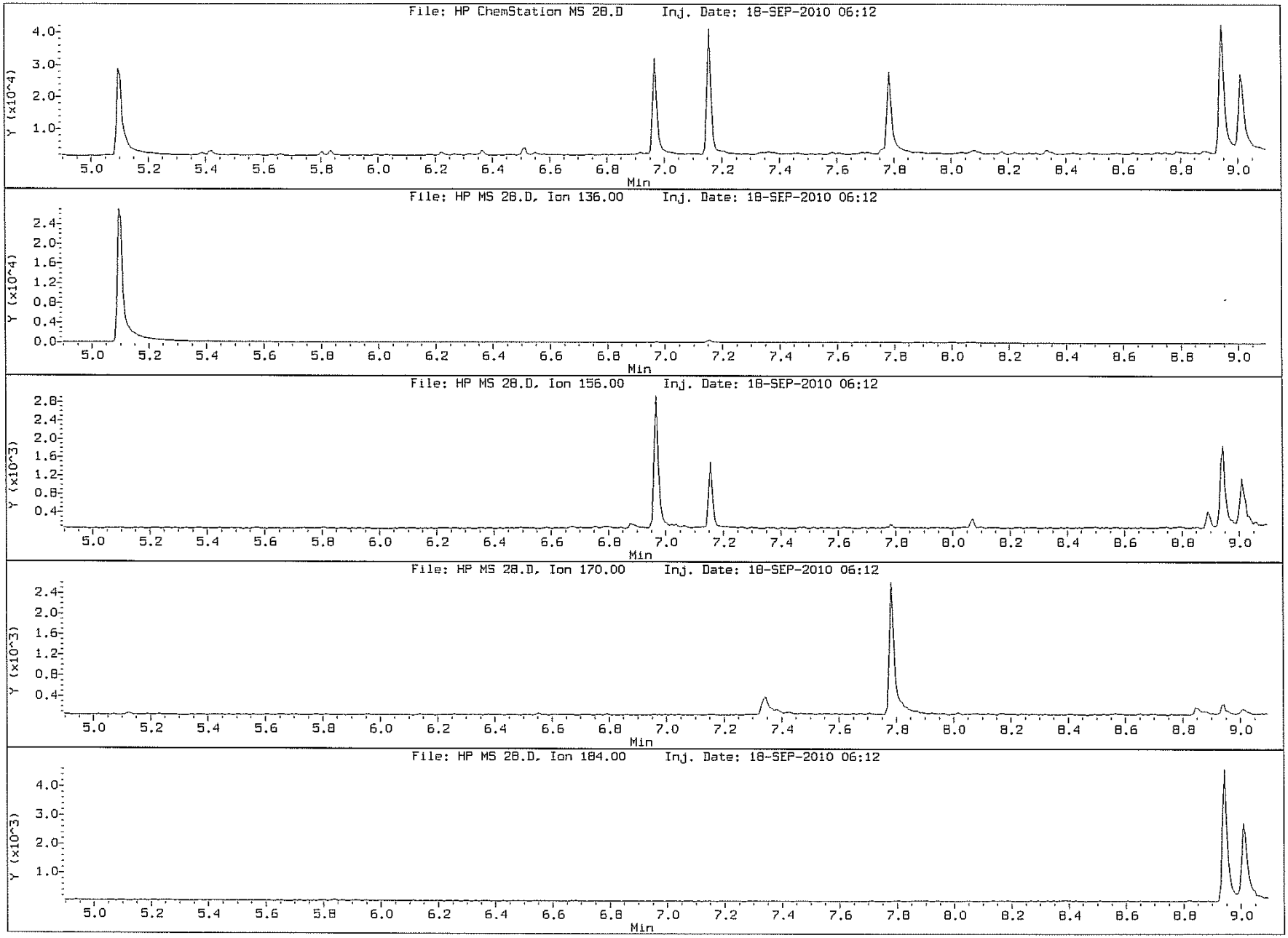
9.3
Min


File: HP ChemStation MS 28.D Inj. Date: 18-SEP-2010 06:12
Y (x10^4)
Min
File: HP MS 28.D, Ion 57.00 Inj. Date: 18-SEP-2010 06:12
Y (x10^4)
Min
File: HP MS 28.D, Ion 191.00 Inj. Date: 18-SEP-2010 06:12
Y (x10^3)
Min
File: HP MS 28.D, Ion 217.00 Inj. Date: 18-SEP-2010 06:12
Y
Min
File: HP MS 28.D, Ion 218.00 Inj. Date: 18-SEP-2010 06:12
Y
Min


File: HP ChemStation MS 28.D Inj. Date: 18-SEP-2010 06:12
Y (x10^4)
Min
File: HP MS 28.D, Ion 136.00 Inj. Date: 18-SEP-2010 06:12
Y (x10^4)
Min
File: HP MS 28.D, Ion 156.00 Inj. Date: 18-SEP-2010 06:12
Y (x10^3)
Min
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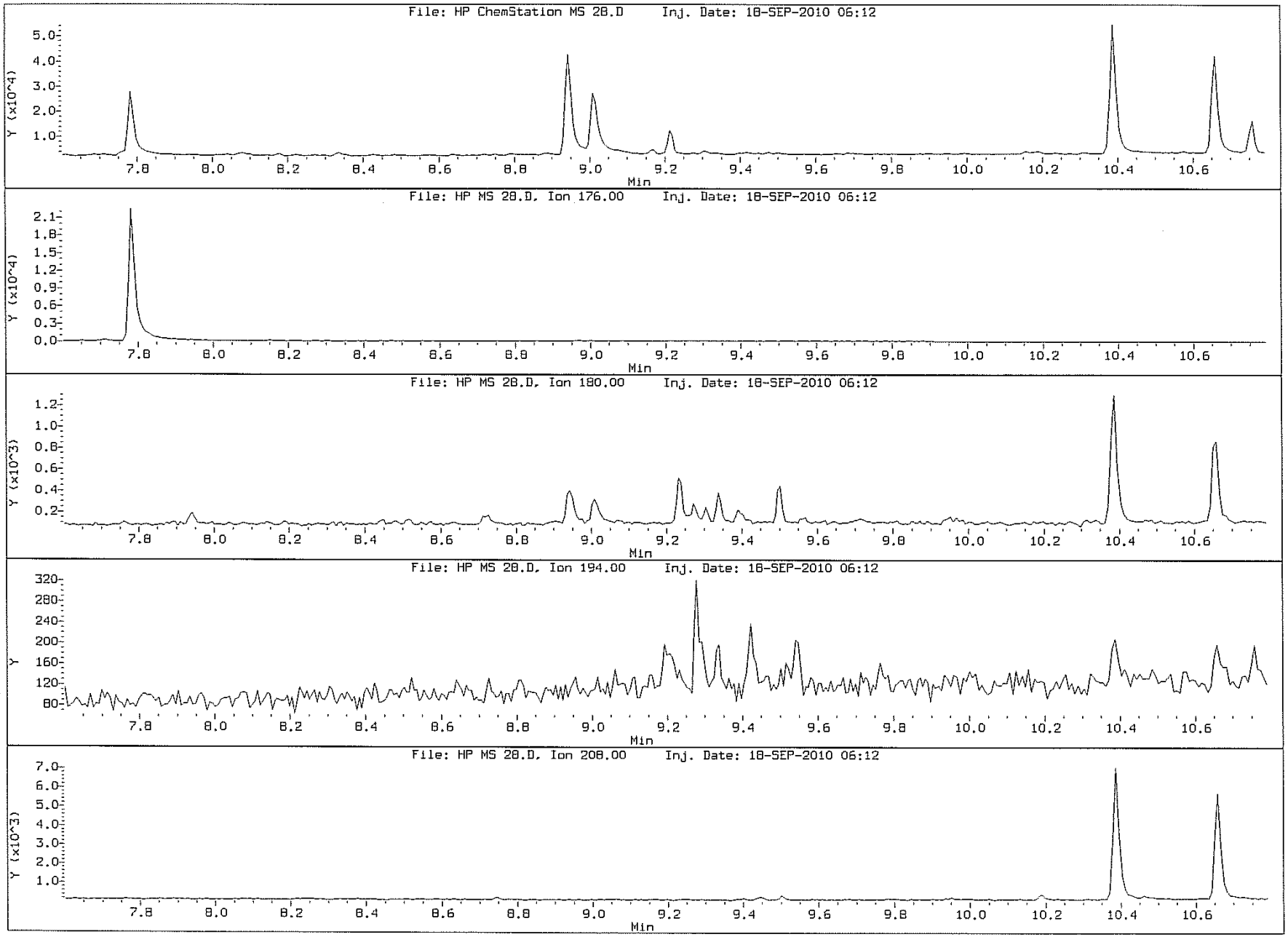
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2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 28.D, Ion 176.00 Inj. Date: 18-SEP-2010 06:12
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1.8
1.5
1.2
0.9
0.6
0.3
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 28.D, Ion 180.00 Inj. Date: 18-SEP-2010 06:12
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1.2
1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 28.D, Ion 194.00 Inj. Date: 18-SEP-2010 06:12
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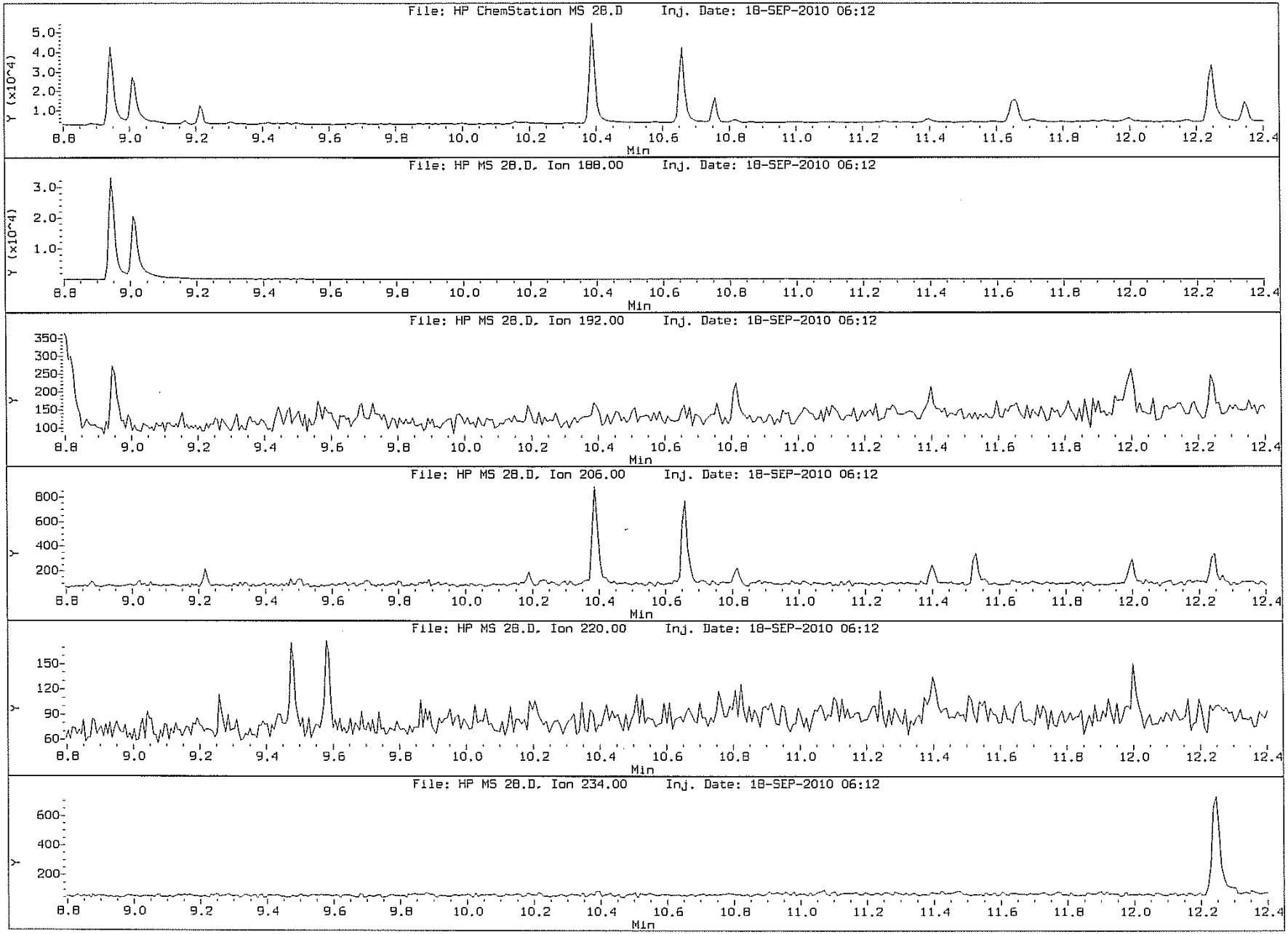
320
280
240
200
160
120
80
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 28.D, Ion 208.00 Inj. Date: 18-SEP-2010 06:12
Y (x10^3)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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File: HP MS 28.D, Ion 188.00 Inj. Date: 18-SEP-2010 06:12
Y (x10^4)
Min
File: HP MS 28.D, Ion 192.00 Inj. Date: 18-SEP-2010 06:12
Y
Min
File: HP MS 28.D, Ion 206.00 Inj. Date: 18-SEP-2010 06:12
Y
Min
File: HP MS 28.D, Ion 220.00 Inj. Date: 18-SEP-2010 06:12
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Min
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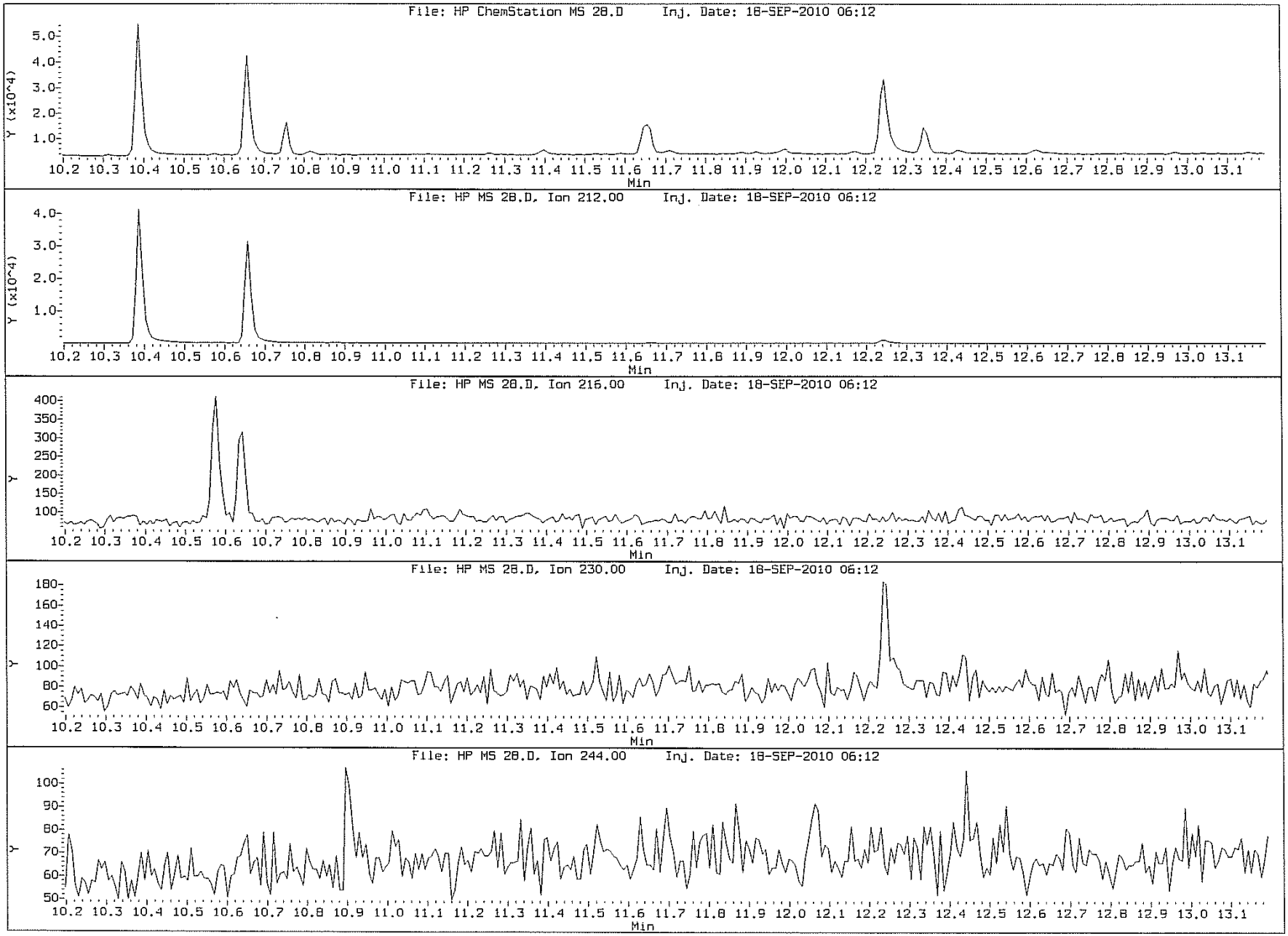
Y
Min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1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 28.D, Ion 212.00 Inj. Date: 18-SEP-2010 06:12
Y (x10^4)
4.0
3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 28.D, Ion 216.00 Inj. Date: 18-SEP-2010 06:12
Y
400
350
300
250
200
150
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 28.D, Ion 230.00 Inj. Date: 18-SEP-2010 06:12
Y
180
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 28.D, Ion 244.00 Inj. Date: 18-SEP-2010 06:12
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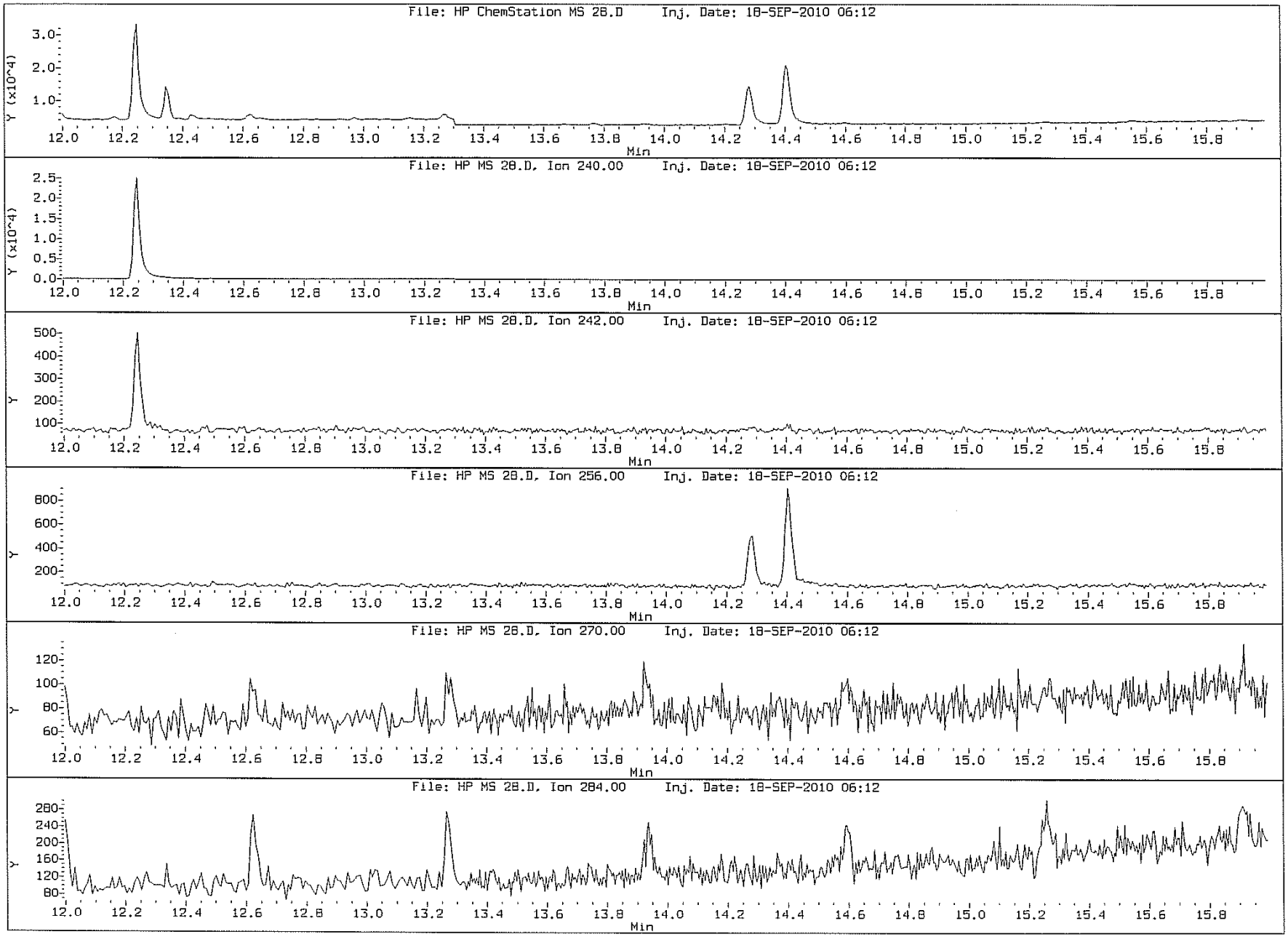
100
90
80
70
60
50
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min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Min
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Y (x10^4)
Min
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Y
Min
File: HP MS 28.D, Ion 256.00 Inj. Date: 18-SEP-2010 06:12
Y
Min
File: HP MS 28.D, Ion 270.00 Inj. Date: 18-SEP-2010 06:12
Y
Min
File: HP MS 28.D, Ion 284.00 Inj. Date: 18-SEP-2010 06:12
Y
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\29.D
Lab Smp Id: 1009543-05F Client Smp ID: 1009543-05F
Inj Date : 18-SEP-2010 06:36 MS Autotune Date: 01-JUN-2010 13:49
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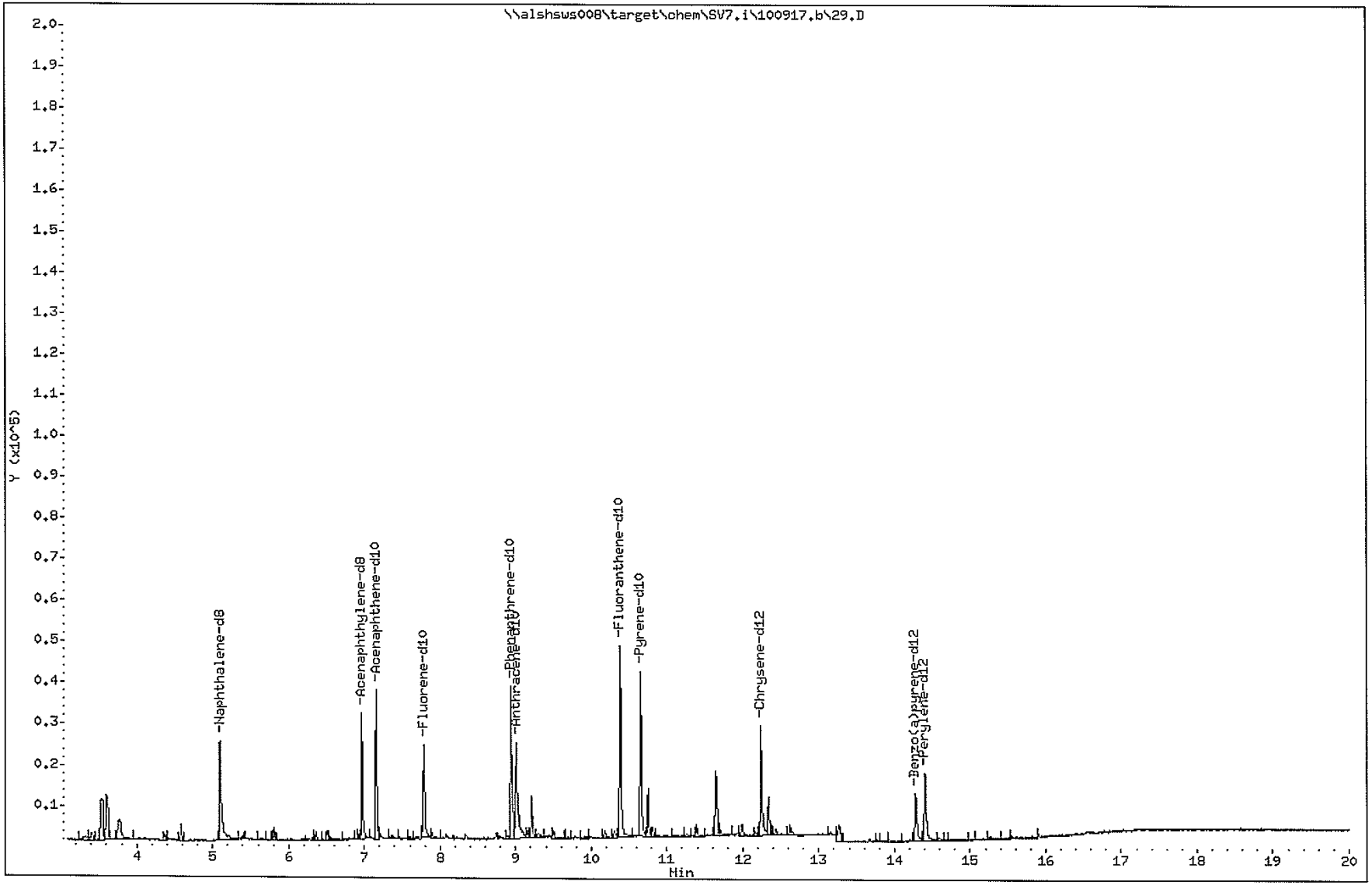
Smp Info : 1009543-05F;1009543-05F
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

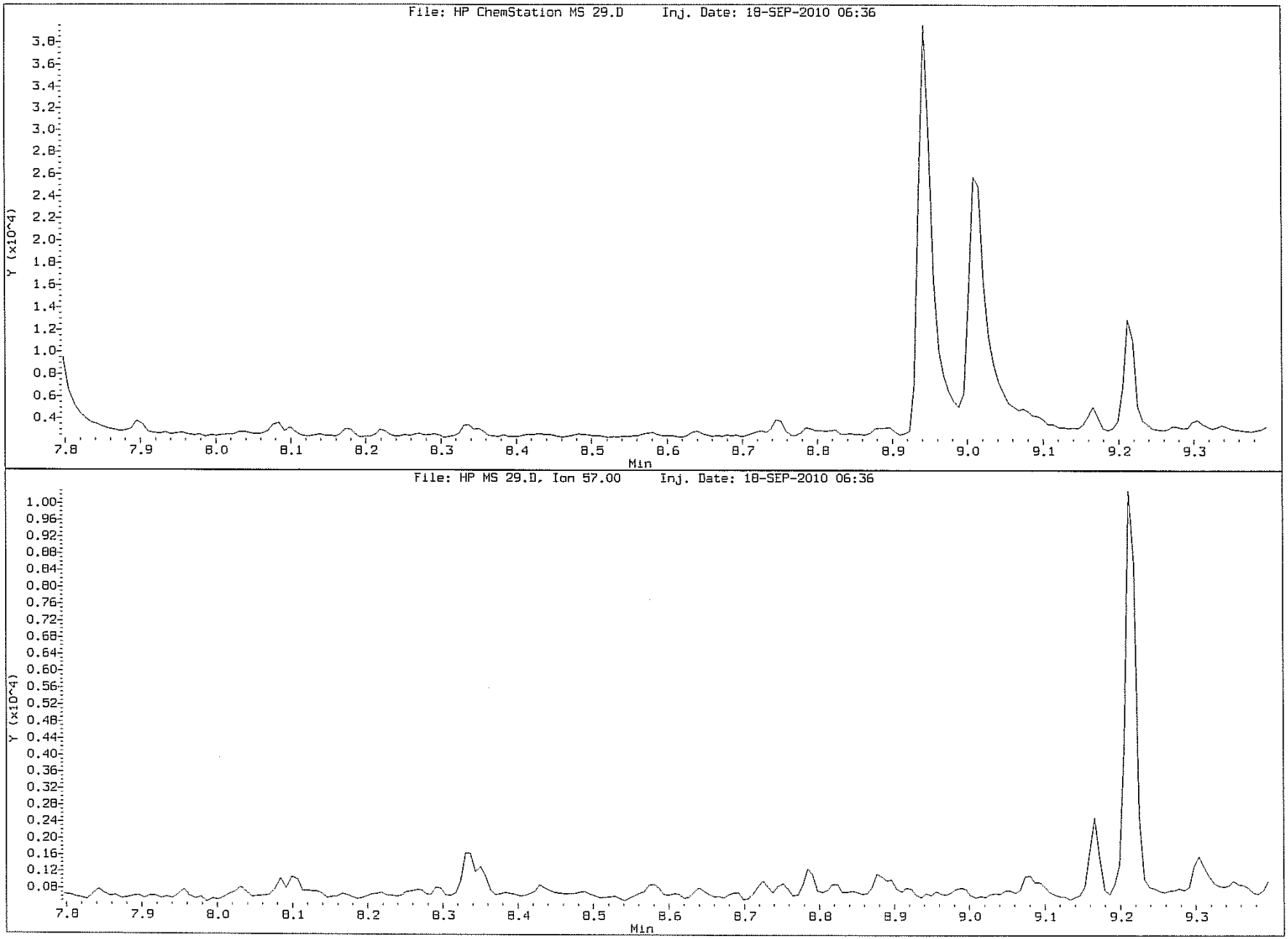
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	45379	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	23335	0.40000	
$	12 Acenaphthylene-d8	160	6.966	6.966	(0.974)	32085	0.29594	0.2959
*	13 Fluorene-d10	176	7.782	7.782	(1.000)	29965	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.942	(1.000)	40986	0.40000	
$	27 Anthracene-d10	188	9.008	9.008	(1.007)	35662	0.27654	0.2765
*	28 Fluoranthene-d10	212	10.386	10.386	(1.000)	47962	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	40233	0.31590	0.3159
*	37 Chrysene-d12	240	12.245	12.245	(1.000)	38162	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	19720	0.30149	0.3015
*	46 Perylene-d12	264	14.402	14.402	(1.000)	28876	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\29.D
Date : 18-SEP-2010 06:36
Client ID: 1009543-05F
Instrument: SV7.i
Sample Info: 1009543-05F;1009543-05F
Purge Volume: 1000.0
Operator: ALSHS.NoUser
Column phase: RTX-5SIL MS
Column diameter: 0.28

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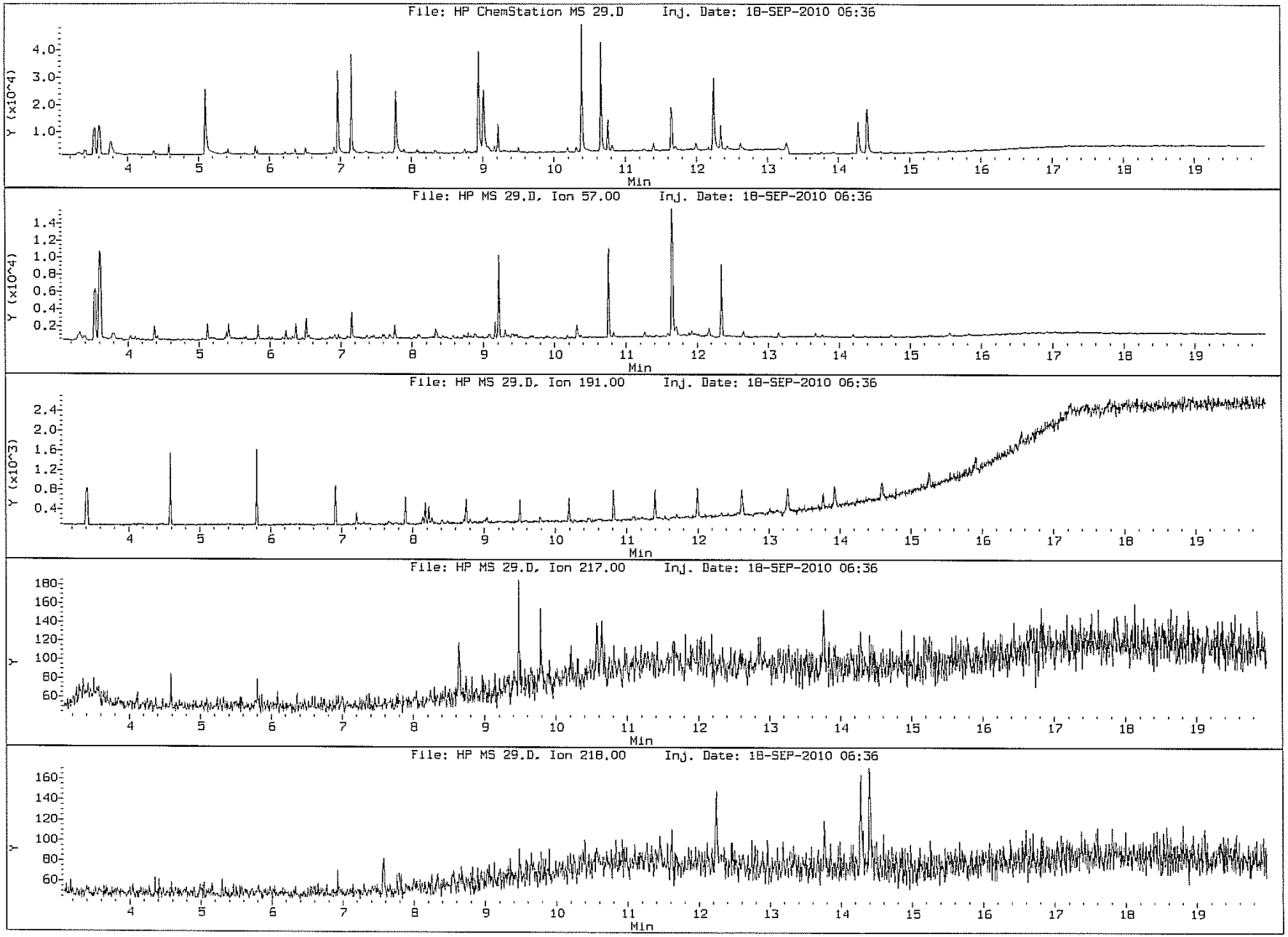
File: HP MS 29.D, Ion 57.00 Inj. Date: 18-SEP-2010 06:36
Y (x10^4)
Min


File: HP ChemStation MS 29.D Inj. Date: 18-SEP-2010 06:36
Y (x10^4)
Min
File: HP MS 29.D, Ion 57.00 Inj. Date: 18-SEP-2010 06:36
Y (x10^4)
Min
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Y (x10^3)
Min
File: HP MS 29.D, Ion 217.00 Inj. Date: 18-SEP-2010 06:36
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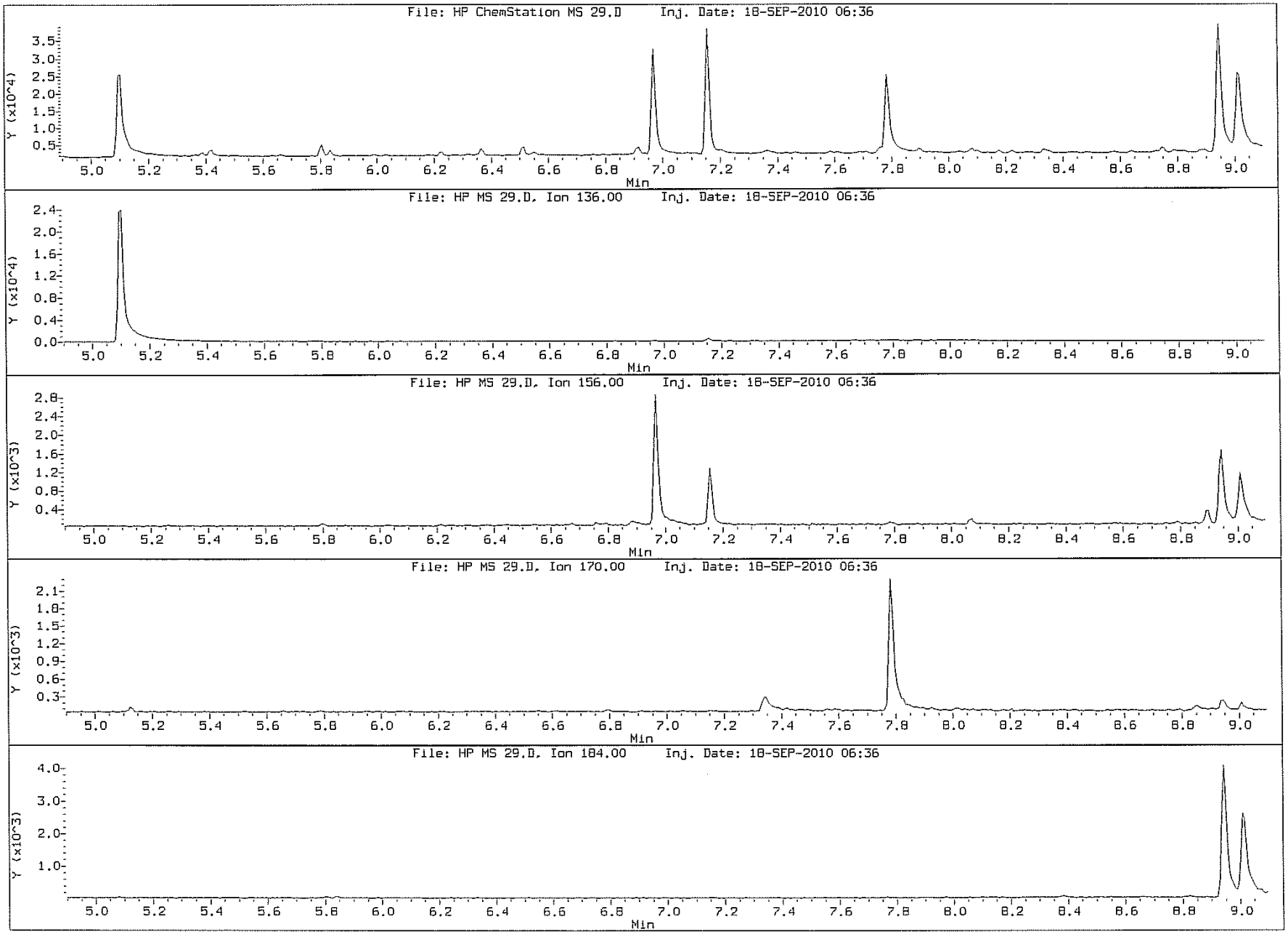
Y
Min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Y (x10^4)
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Y (x10^4)
Min
File: HP MS 29.D, Ion 156.00 Inj. Date: 18-SEP-2010 06:36
Y (x10^3)
Min
File: HP MS 29.D, Ion 170.00 Inj. Date: 18-SEP-2010 06:36
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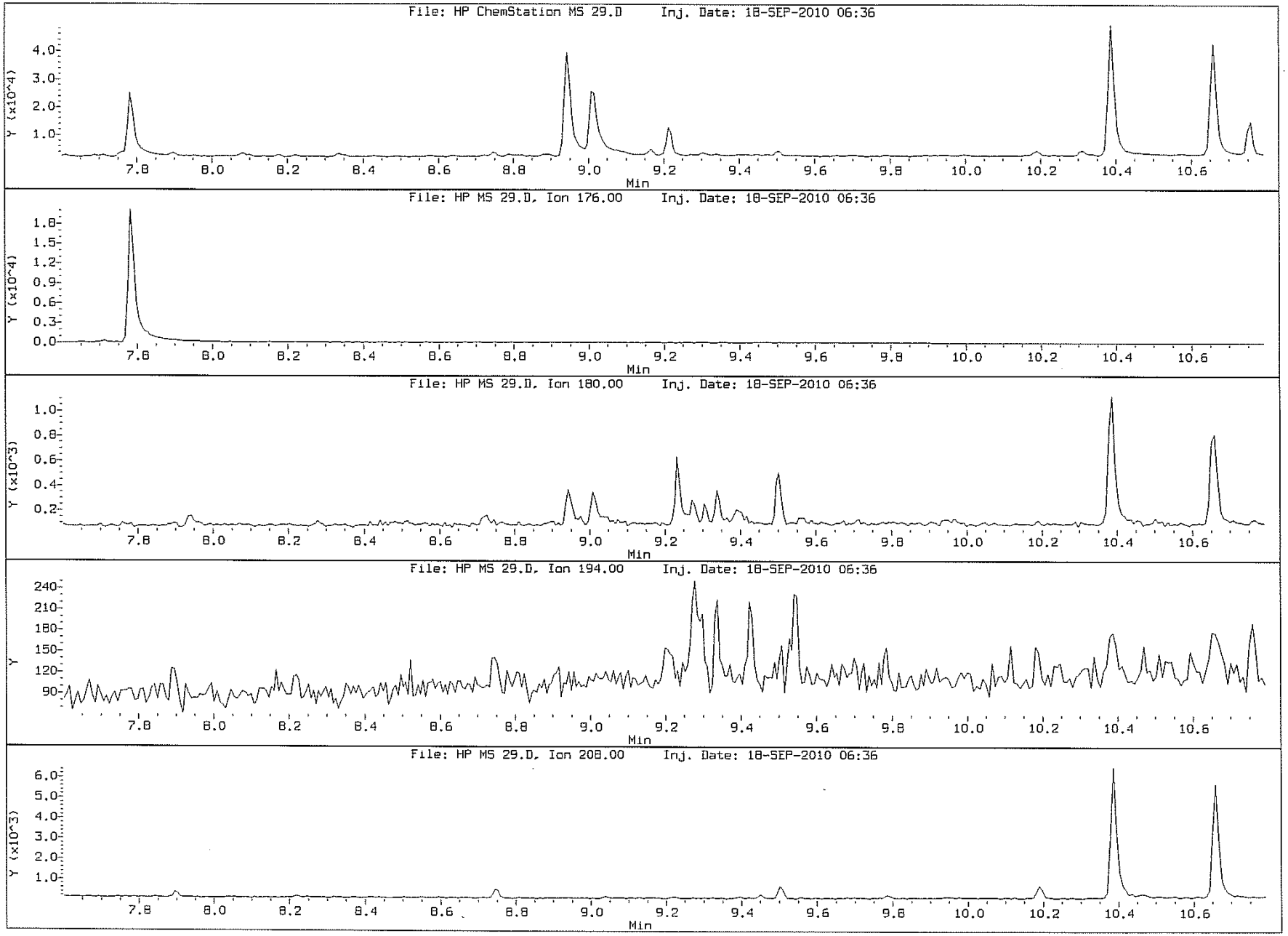
Y (x10^3)
Min


File: HP ChemStation MS 29.D Inj. Date: 18-SEP-2010 06:36
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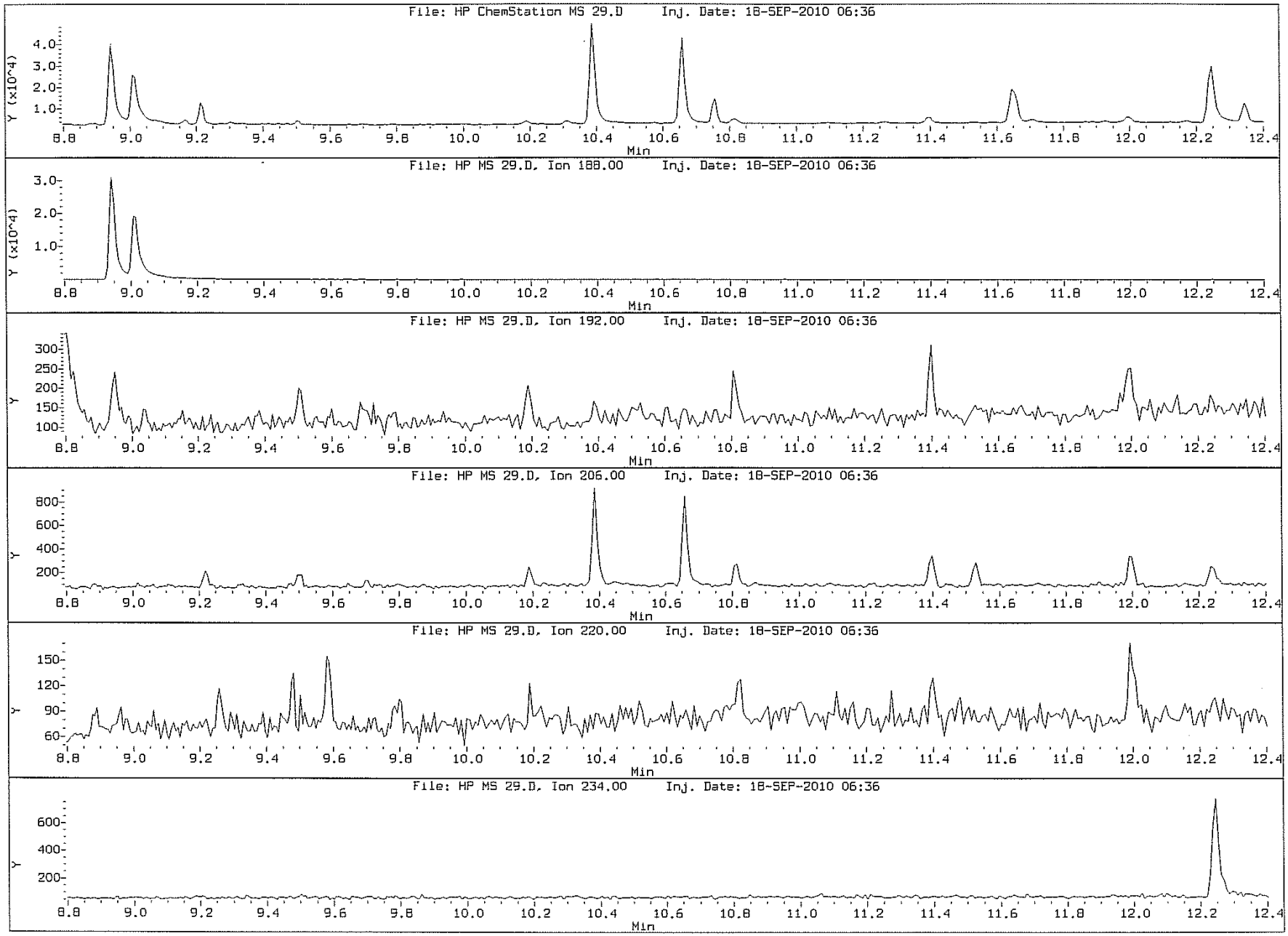
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 29.D, Ion 176.00 Inj. Date: 18-SEP-2010 06:36
Y (x10^4)
1.8
1.5
1.2
0.9
0.6
0.3
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 29.D, Ion 180.00 Inj. Date: 18-SEP-2010 06:36
Y (x10^3)
1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 29.D, Ion 194.00 Inj. Date: 18-SEP-2010 06:36
Y
240
210
180
150
120
90
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 29.D, Ion 208.00 Inj. Date: 18-SEP-2010 06:36
Y (x10^3)
6.0
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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File: HP MS 29.D, Ion 188.00 Inj. Date: 18-SEP-2010 06:36
Y (x10^4)
Min
File: HP MS 29.D, Ion 192.00 Inj. Date: 18-SEP-2010 06:36
Y
Min
File: HP MS 29.D, Ion 206.00 Inj. Date: 18-SEP-2010 06:36
Y
Min
File: HP MS 29.D, Ion 220.00 Inj. Date: 18-SEP-2010 06:36
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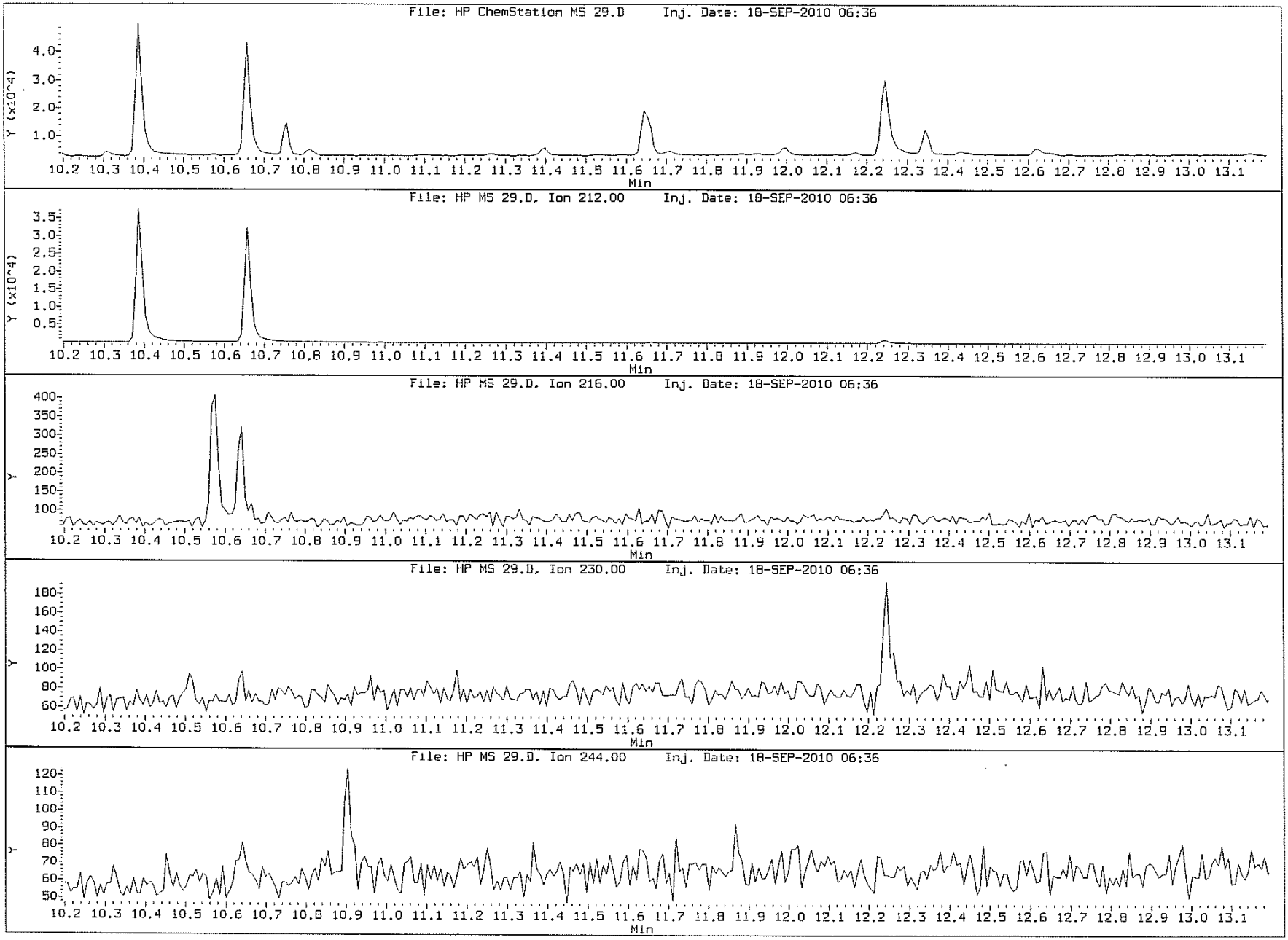
Y
Min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Y (x10^4)
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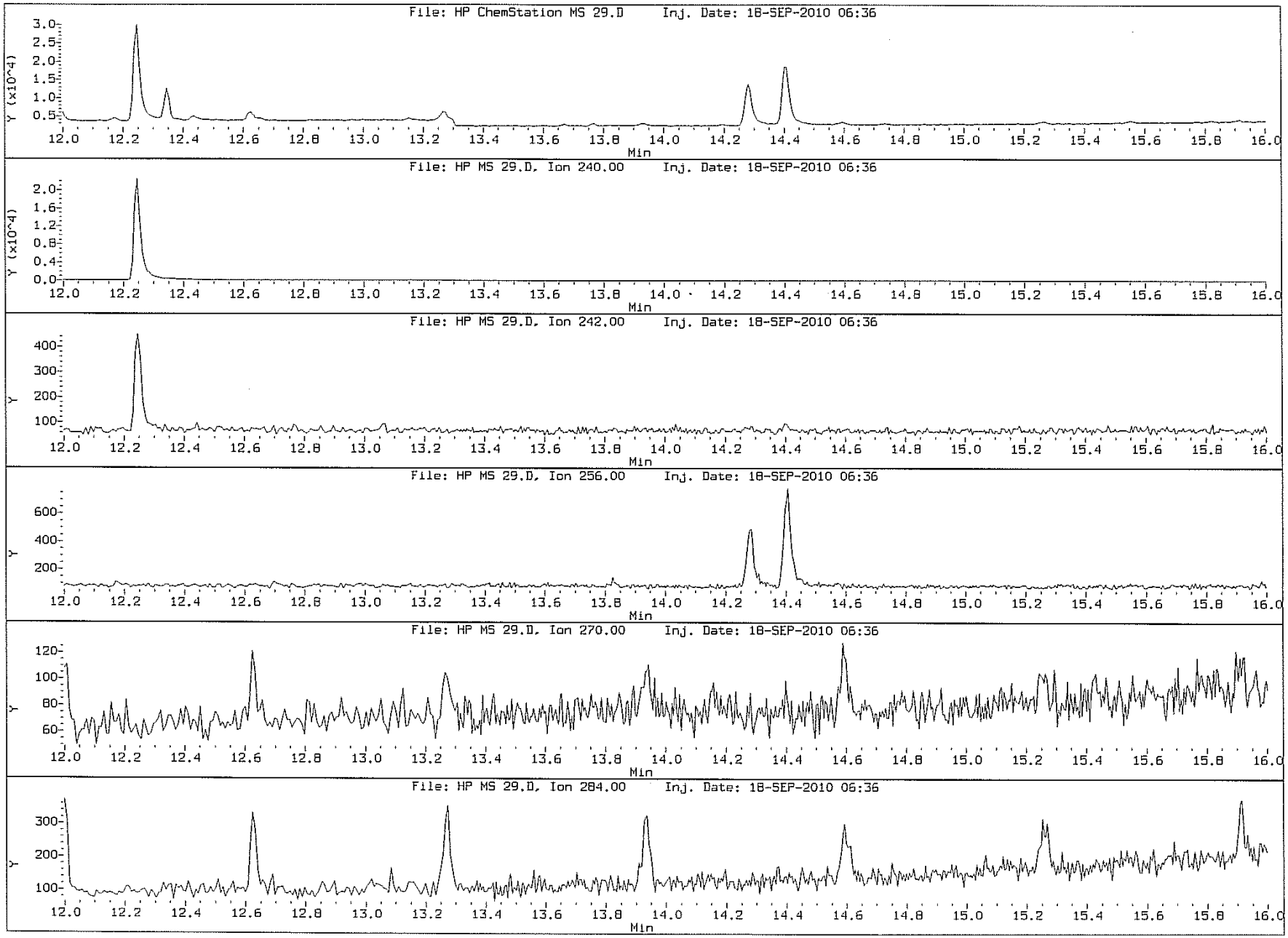
3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 29.D, Ion 212.00 Inj. Date: 18-SEP-2010 06:36
Y (x10^4)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 29.D, Ion 216.00 Inj. Date: 18-SEP-2010 06:36
Y
400
350
300
250
200
150
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 29.D, Ion 230.00 Inj. Date: 18-SEP-2010 06:36
Y
180
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 29.D, Ion 244.00 Inj. Date: 18-SEP-2010 06:36
Y
120
110
100
90
80
70
60
50
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min


File: HP ChemStation MS 29.D Inj. Date: 18-SEP-2010 06:36
Y (x10^4)
Min
File: HP MS 29.D, Ion 240.00 Inj. Date: 18-SEP-2010 06:36
Y (x10^4)
Min
File: HP MS 29.D, Ion 242.00 Inj. Date: 18-SEP-2010 06:36
Y
Min
File: HP MS 29.D, Ion 256.00 Inj. Date: 18-SEP-2010 06:36
Y
Min
File: HP MS 29.D, Ion 270.00 Inj. Date: 18-SEP-2010 06:36
Y
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Y
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\30.D
Lab Smp Id: 1009543-07F Client Smp ID: 1009543-07F
Inj Date : 18-SEP-2010 07:01 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : 1009543-07F;1009543-07F
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	45158	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	23955	0.40000	
$	12 Acenaphthylene-d8	160	6.966	6.966	(0.974)	35311	0.31727	0.3173
*	13 Fluorene-d10	176	7.782	7.782	(1.000)	30869	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.942	(1.000)	41907	0.40000	
$	27 Anthracene-d10	188	9.008	9.008	(1.007)	39578	0.30016	0.3002
*	28 Fluoranthene-d10	212	10.386	10.386	(1.000)	47216	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	40462	0.32272	0.3227
*	37 Chrysene-d12	240	12.245	12.245	(1.000)	37390	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	20257	0.31609	0.3161
*	46 Perylene-d12	264	14.402	14.402	(1.000)	29972	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\30.D
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Instrument: SV7.i
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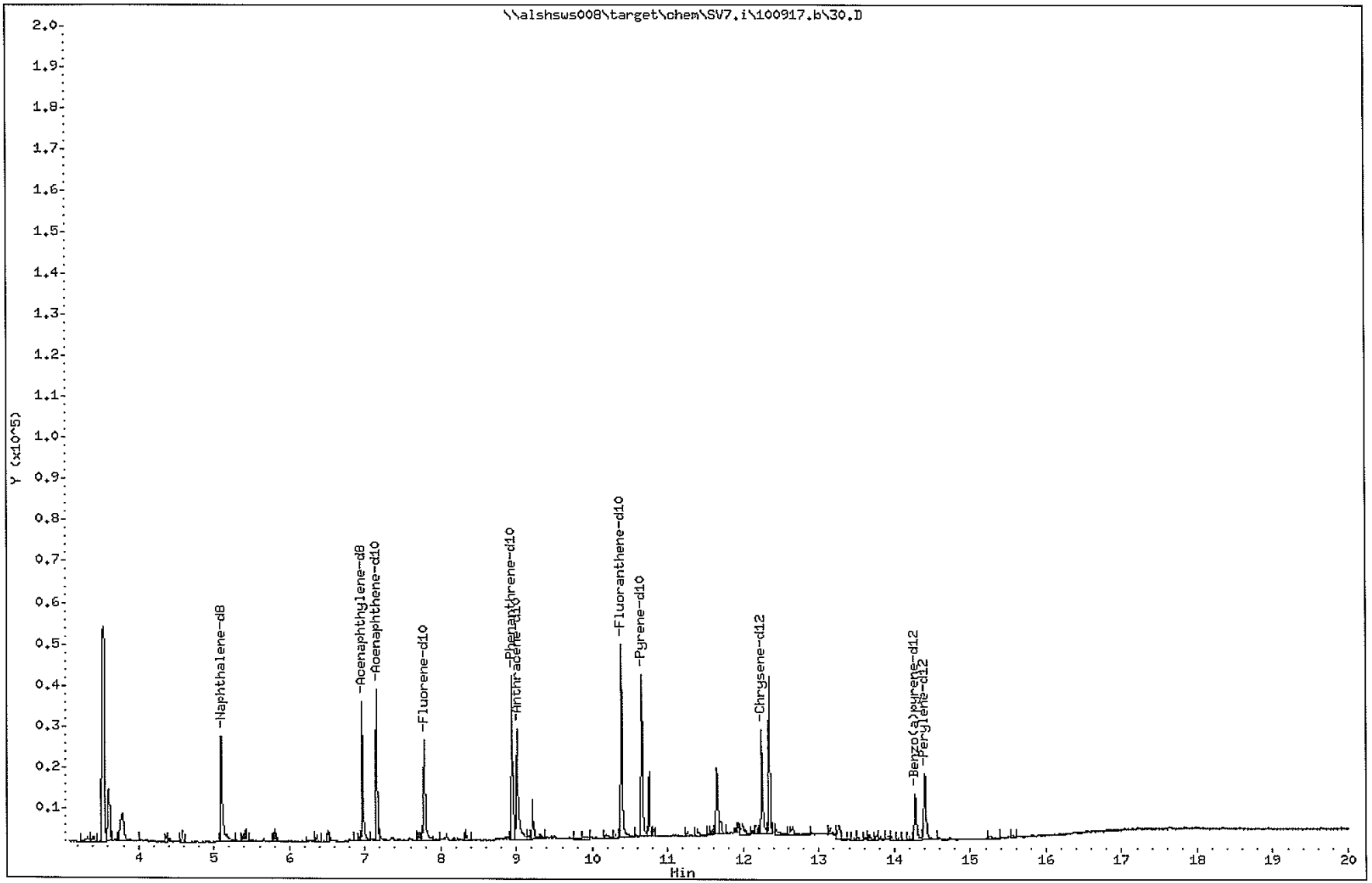
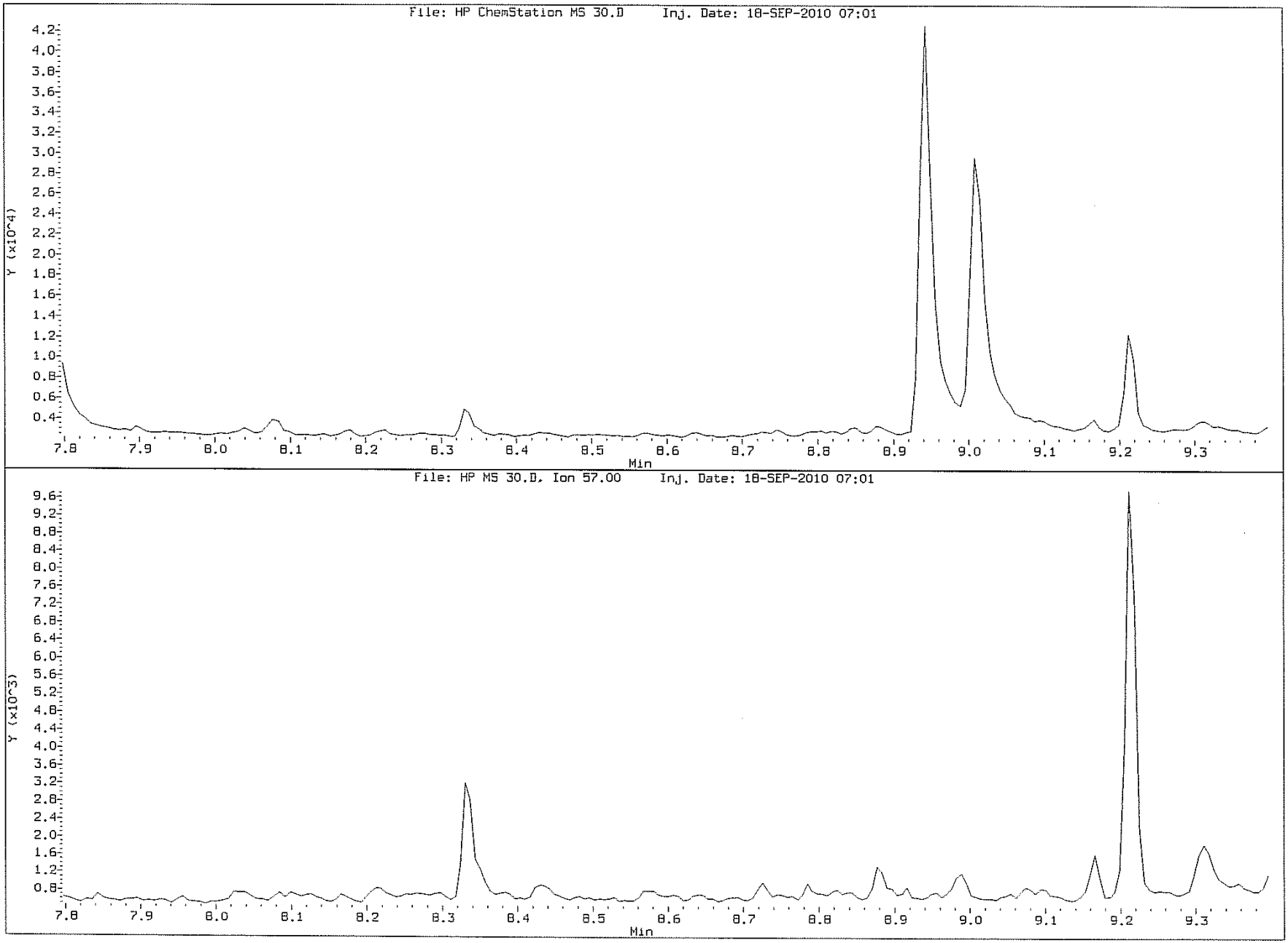
Purge Volume: 1000.0
Operator: ALSHS.NoUser
Column phase: RTX-5SIL MS
Column diameter: 0.28

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3.8
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3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
File: HP MS 30.D, Ion 57.00 Inj. Date: 18-SEP-2010 07:01
Y (x10^3)
9.6
9.2
8.8
8.4
8.0
7.6
7.2
6.8
6.4
6.0
5.6
5.2
4.8
4.4
4.0
3.6
3.2
2.8
2.4
2.0
1.6
1.2
0.8
7.8
7.9
8.0
8.1
8.2
8.3
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9.0
9.1
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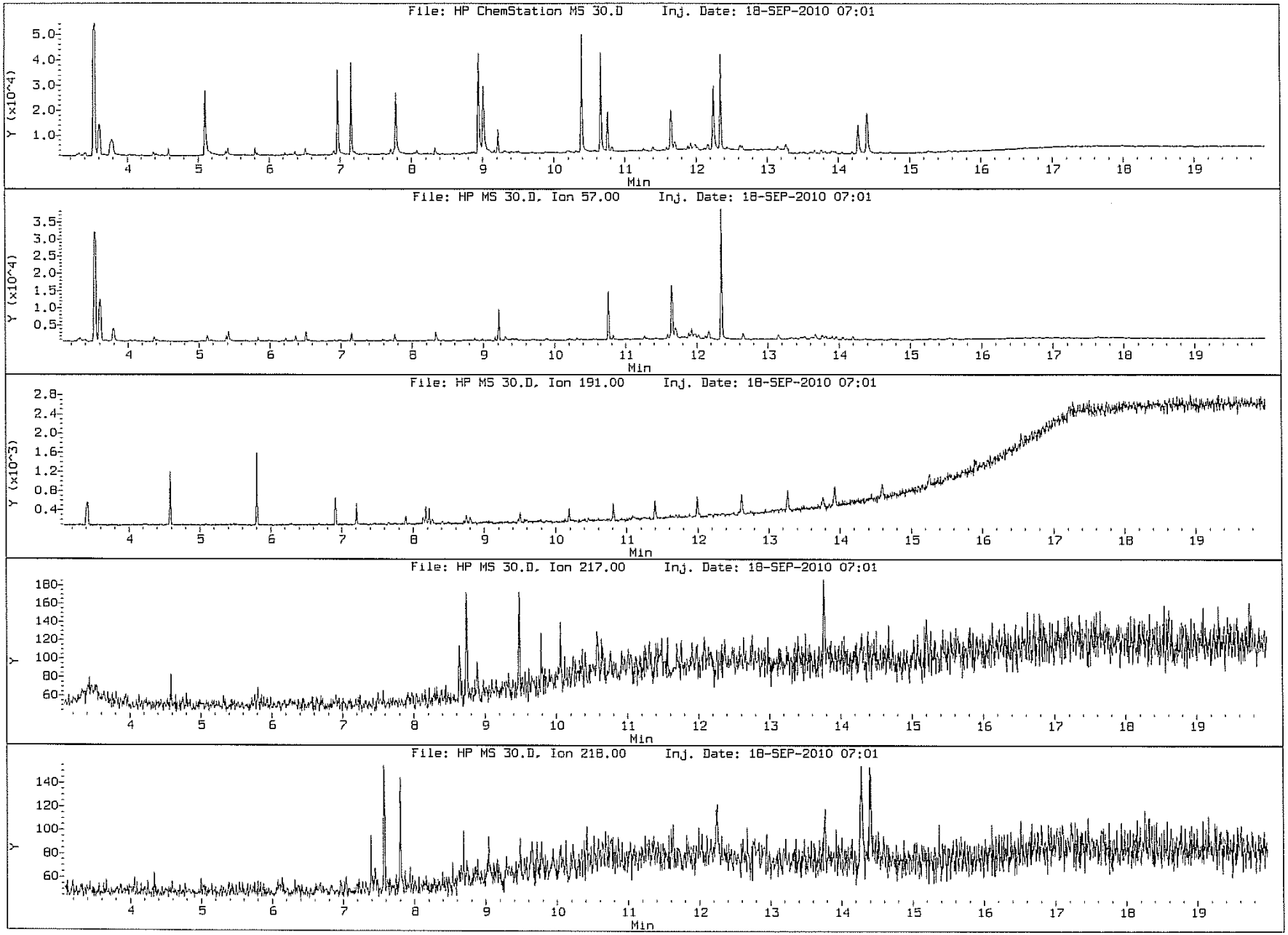
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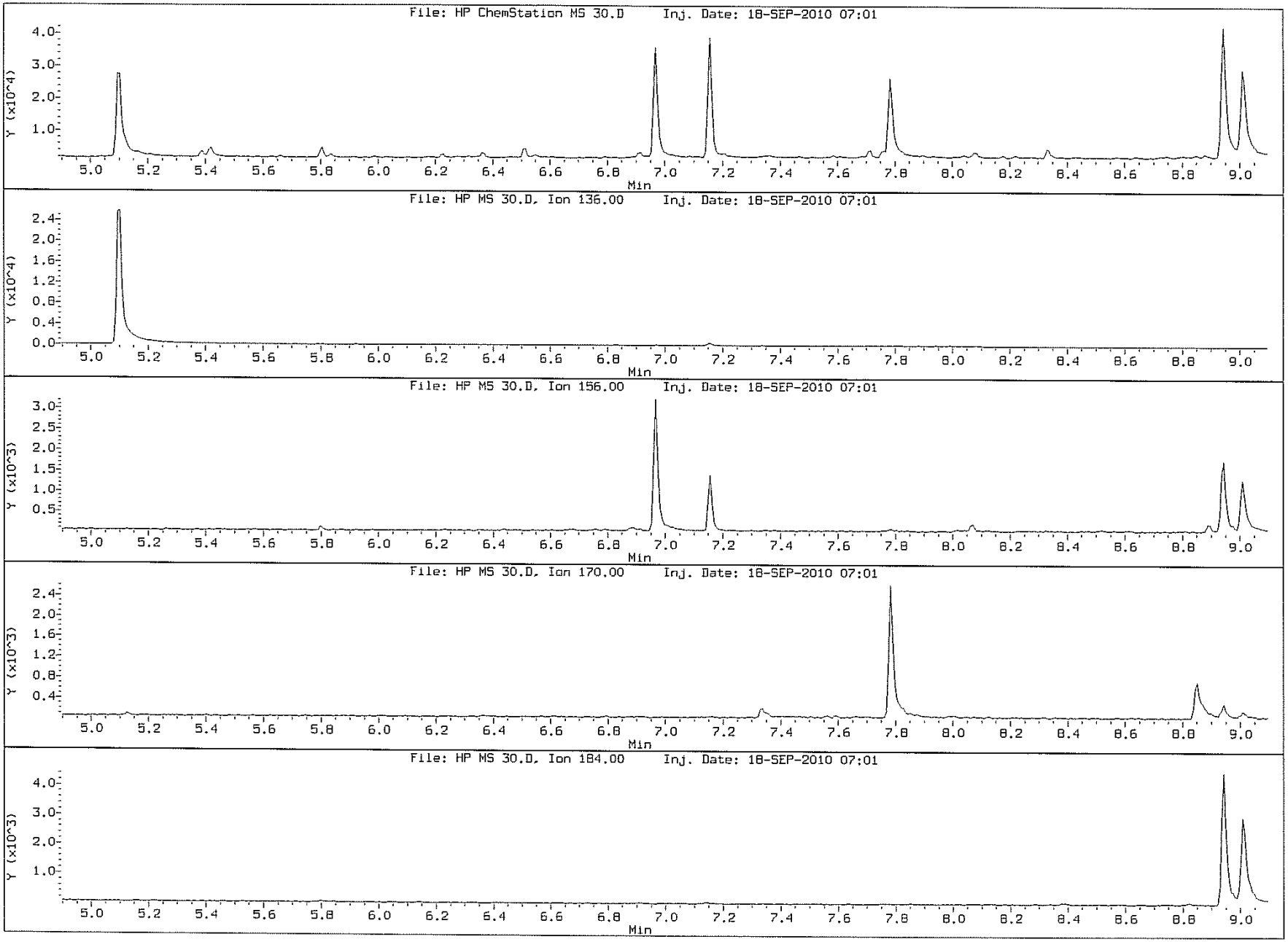
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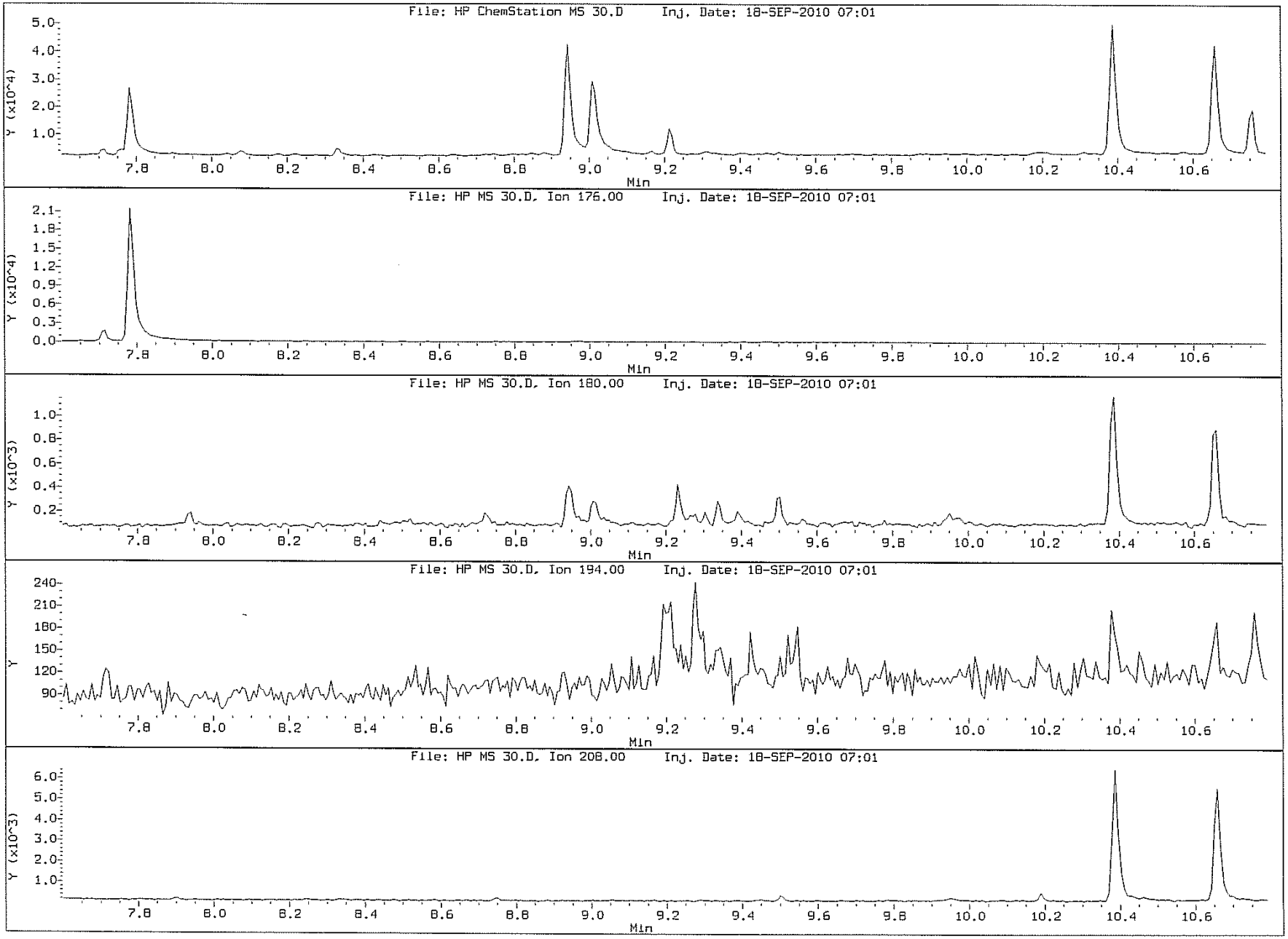
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2.0
1.0
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Min
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1.8
1.5
1.2
0.9
0.6
0.3
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
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Y (x10^3)
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0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
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Y
240
210
180
150
120
90
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
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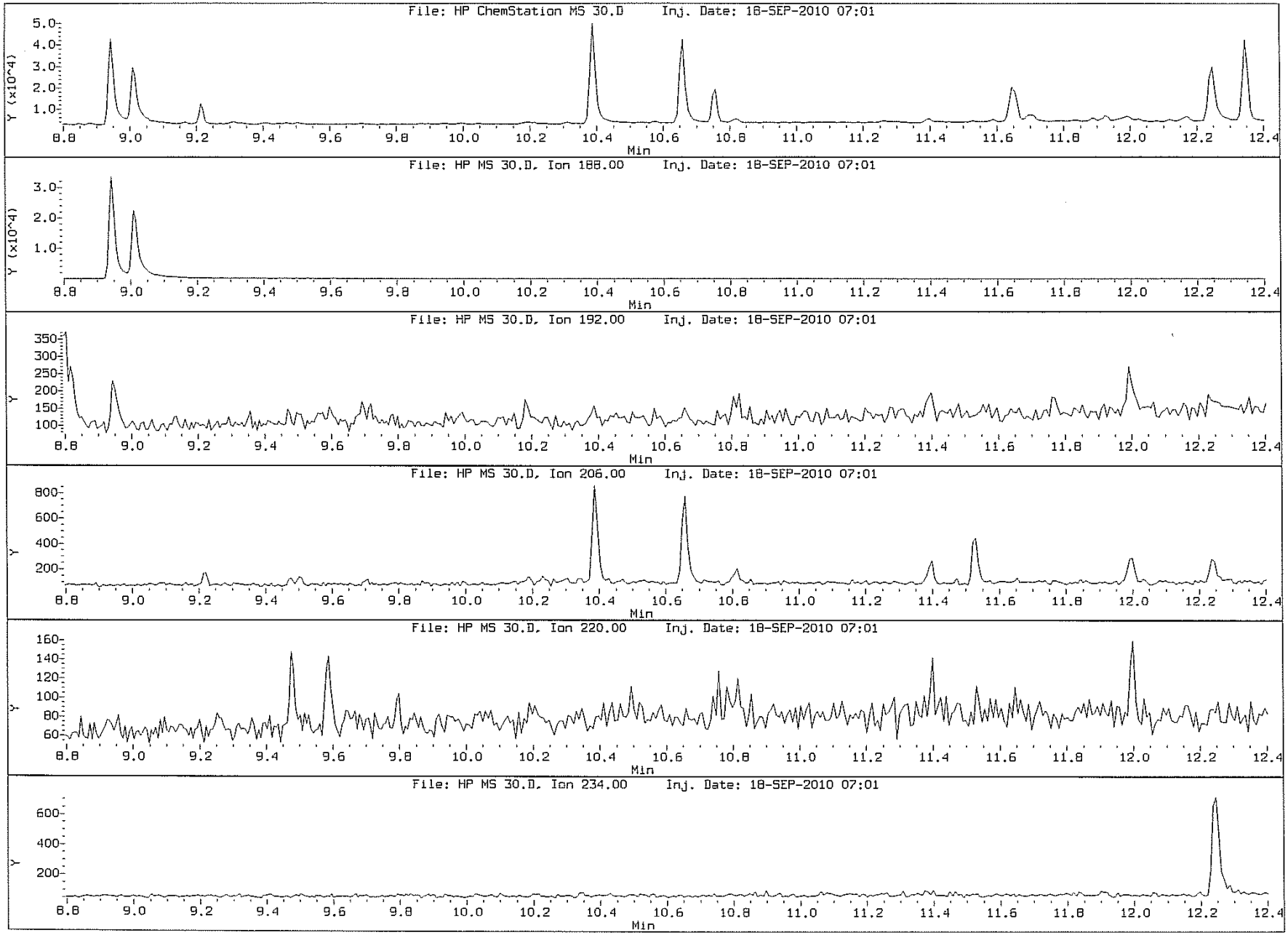
6.0
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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Y
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Min
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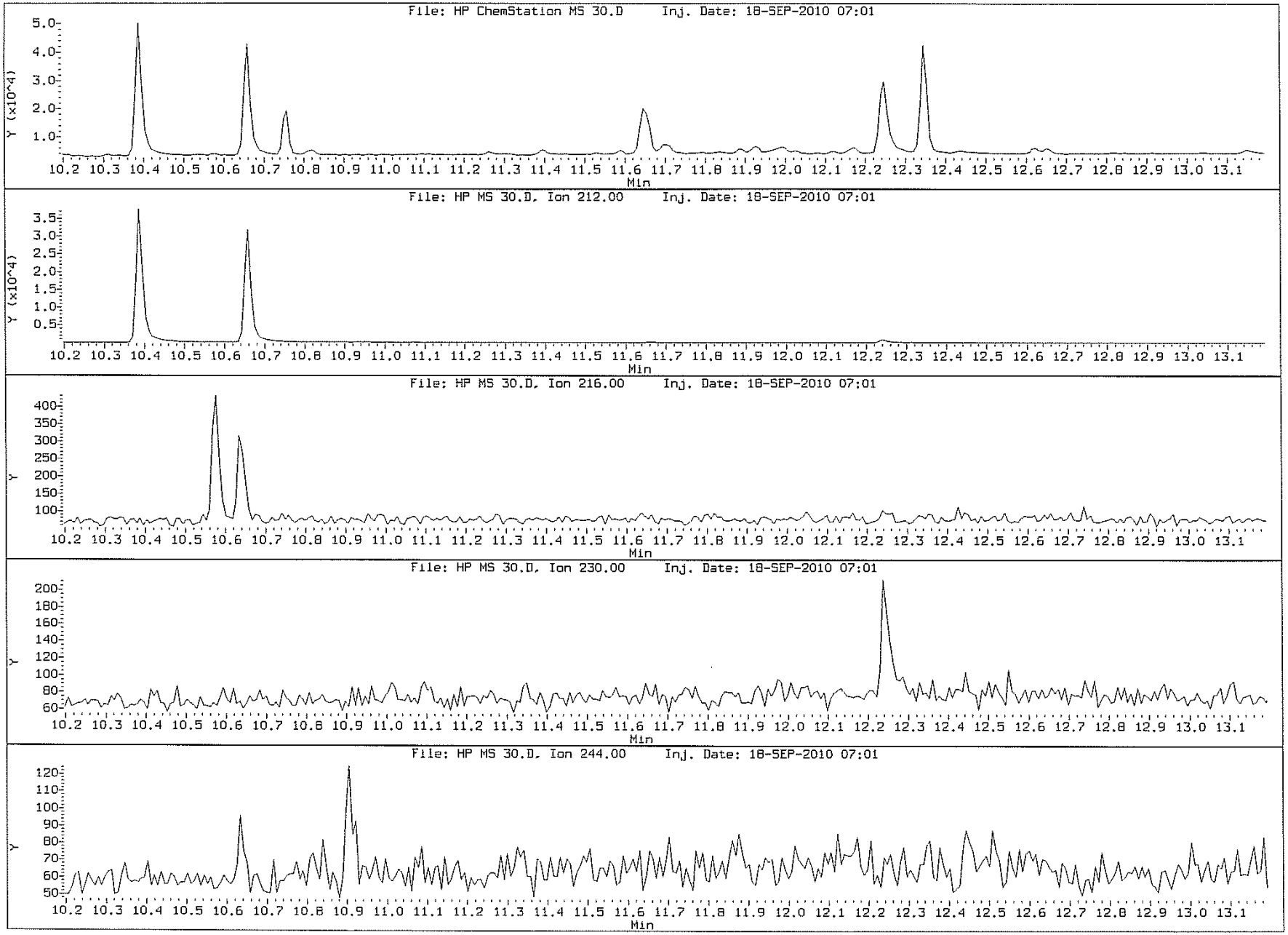
Y
Min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2.0
1.0
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Min
File: HP MS 30.D, Ion 212.00 Inj. Date: 18-SEP-2010 07:01
Y (x10^4)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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Y
400
350
300
250
200
150
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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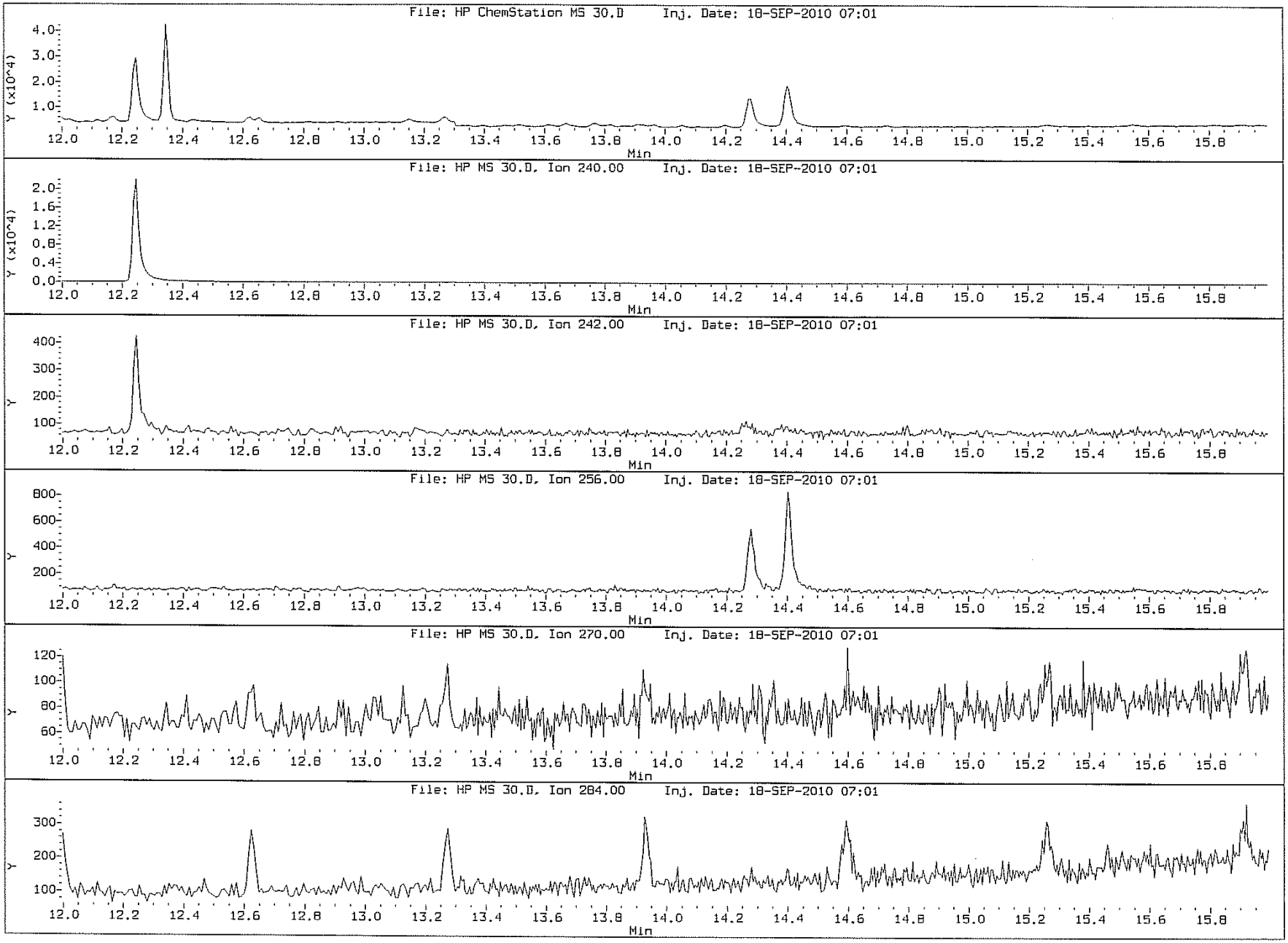
Y
200
180
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 30.D, Ion 244.00 Inj. Date: 18-SEP-2010 07:01
Y
120
110
100
90
80
70
60
50
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min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1.0
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
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2.0
1.6
1.2
0.8
0.4
0.0
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
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Y
400
300
200
100
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
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Y
800
600
400
200
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 30.D, Ion 270.00 Inj. Date: 18-SEP-2010 07:01
Y
120
100
80
60
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 30.D, Ion 284.00 Inj. Date: 18-SEP-2010 07:01
Y
300
200
100
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\31.D
Lab Smp Id: 1009543-08F Client Smp ID: 1009543-08F
Inj Date : 18-SEP-2010 07:26 MS Autotune Date: 01-JUN-2010 13:49
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Smp Info : 1009543-08F;1009543-08F
Misc Info : ;;0;1;
Comment :
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Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

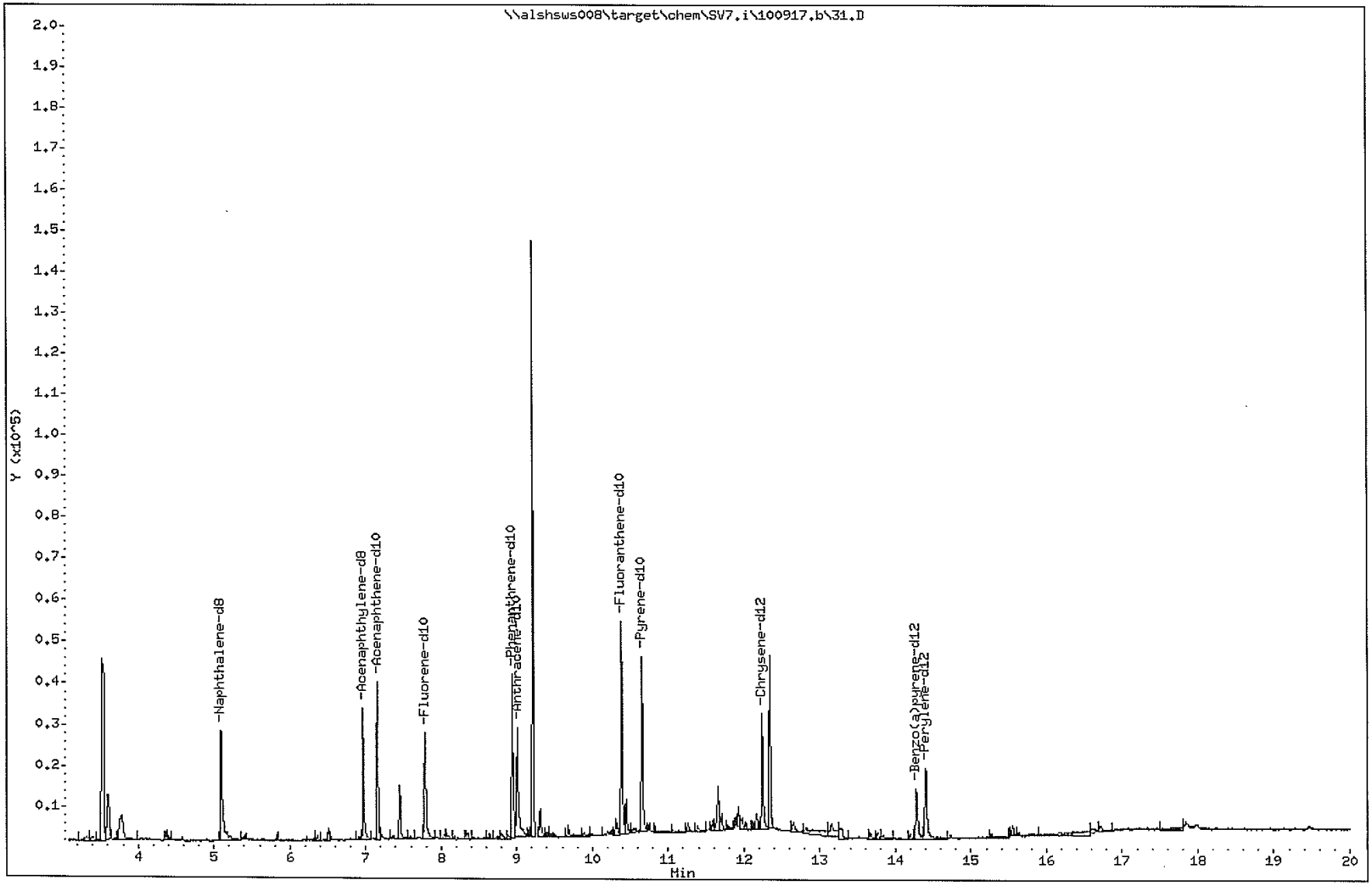
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

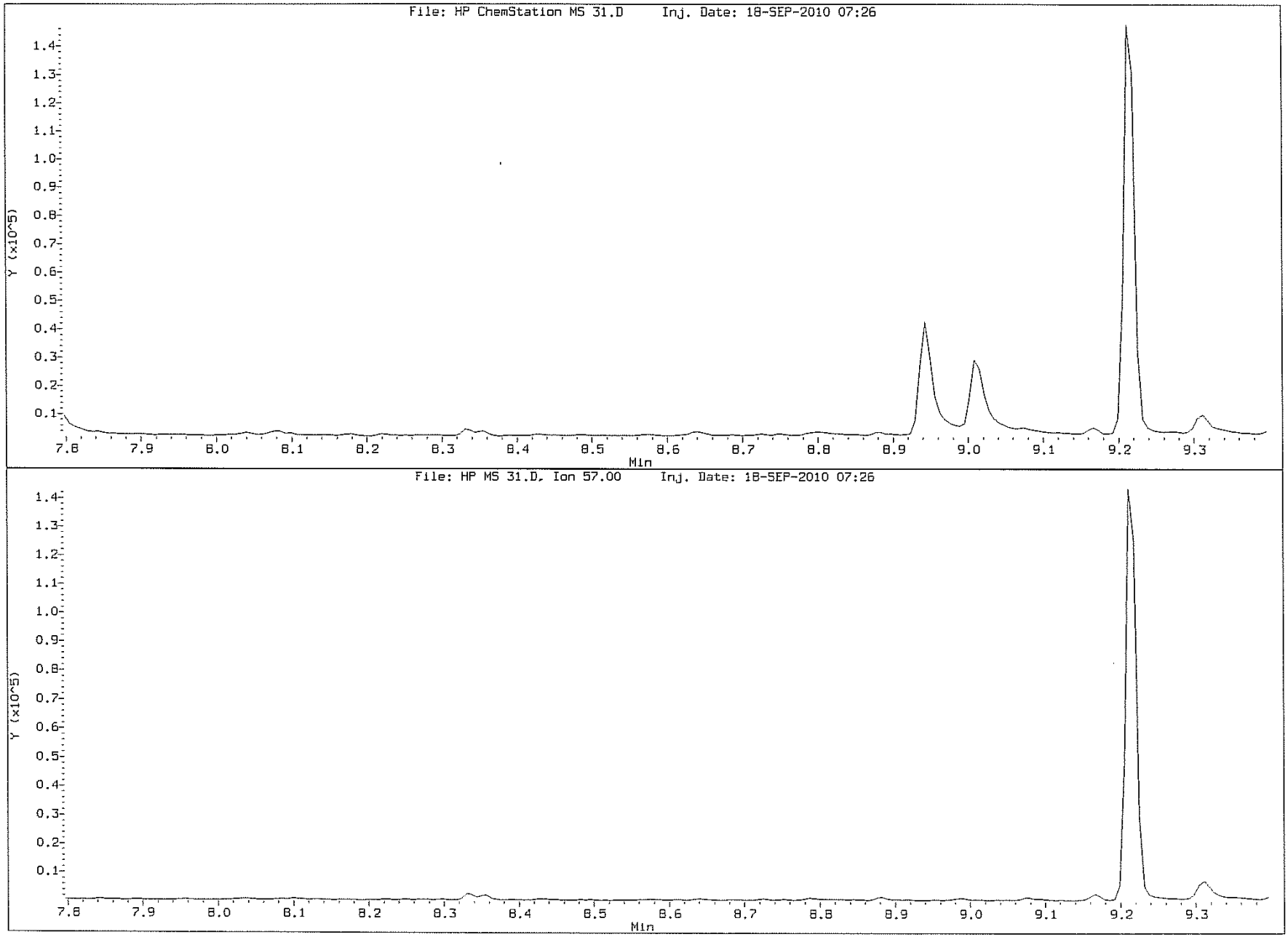
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Naphthalene-d8	136	5.094	5.102	(1.000)	46877	0.40000	
* 9 Acenaphthene-d10	162	7.155	7.155	(1.000)	24129	0.40000	
$ 12 Acenaphthylene-d8	160	6.966	6.966	(0.974)	32649	0.29123	0.2912
* 13 Fluorene-d10	176	7.782	7.782	(1.000)	30969	0.40000	
* 18 Phenanthrene-d10	188	8.942	8.942	(1.000)	42944	0.40000	
$ 27 Anthracene-d10	188	9.008	9.008	(1.007)	40897	0.30267	0.3027
* 28 Fluoranthene-d10	212	10.386	10.386	(1.000)	50034	0.40000	
$ 36 Pyrene-d10	212	10.658	10.658	(1.026)	41166	0.30984	0.3098
* 37 Chrysene-d12	240	12.245	12.245	(1.000)	40422	0.40000	
$ 45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	21083	0.30430	0.3043
* 46 Perylene-d12	264	14.402	14.402	(1.000)	31674	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100917.b\31.D
Date : 18-SEP-2010 07:26
Client ID: 1009543-08F
Sample Info: 1009543-08F;1009543-08F
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28

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1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
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1.3
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1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7.8
7.9
8.0
8.1
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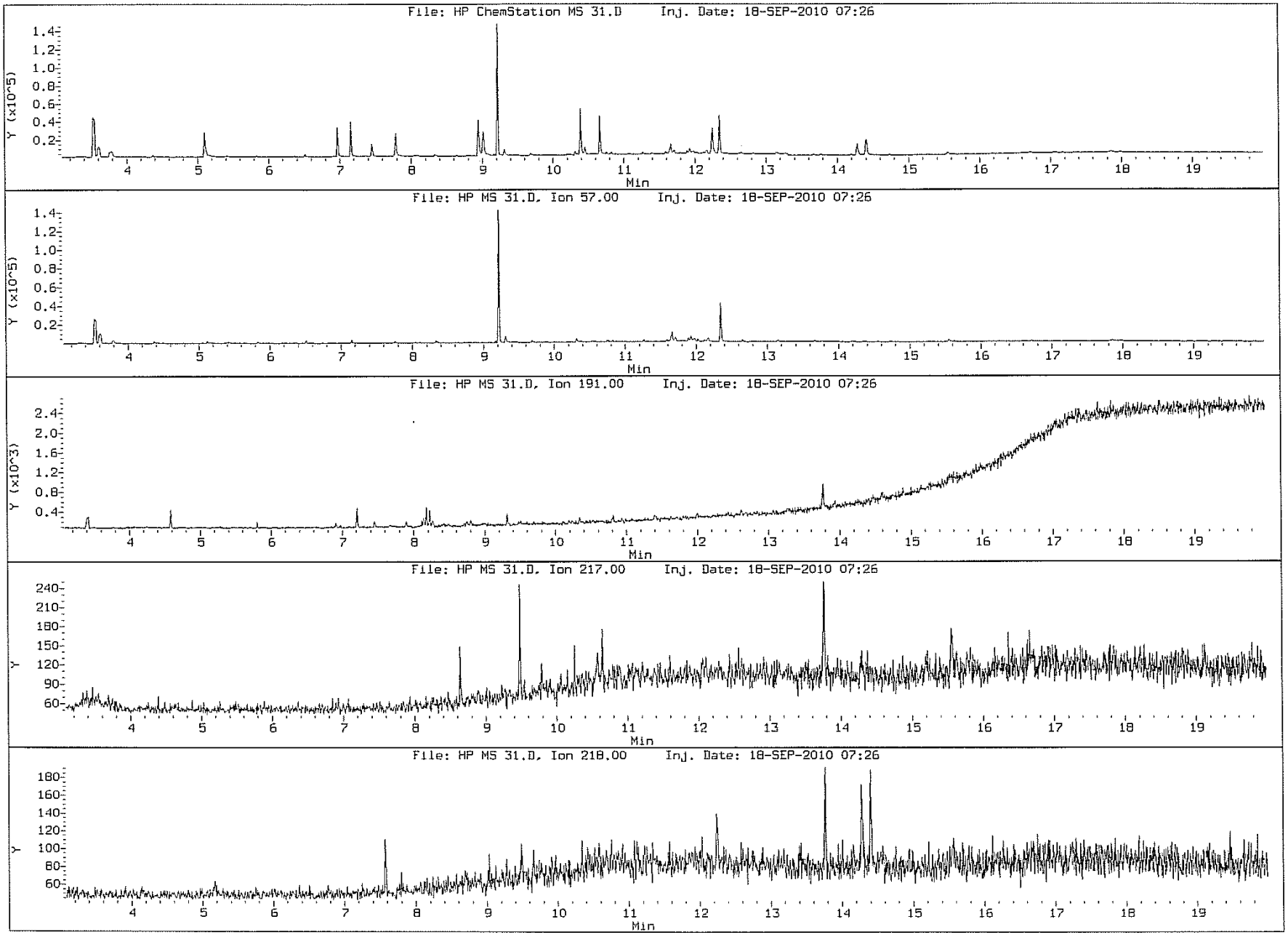
9.1
9.2
9.3
Min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Min
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Y (x10^5)
Min
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Y (x10^3)
Min
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Y
Min
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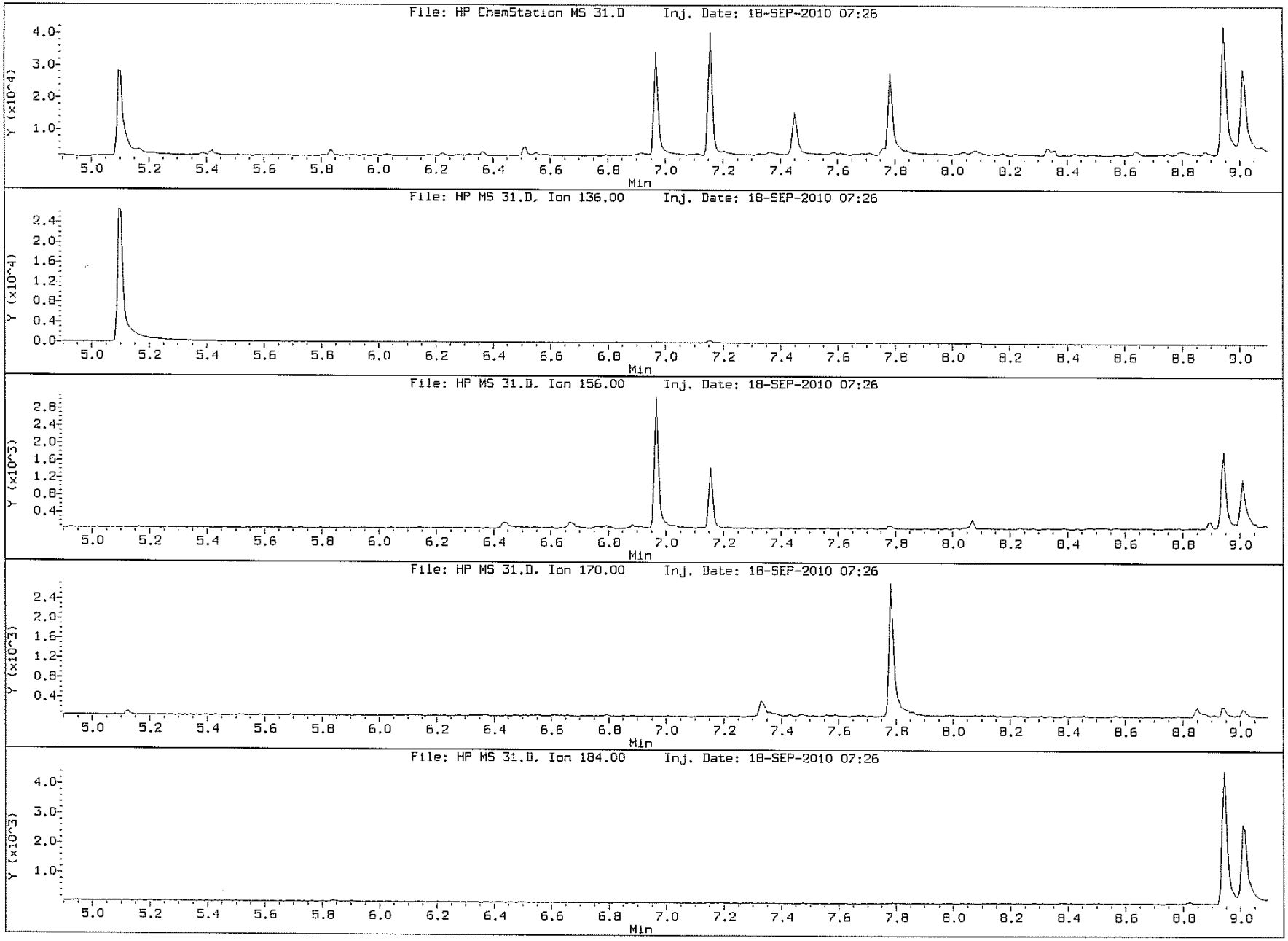
Y
Min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Y (x10^4)
Min
File: HP MS 31.D, Ion 136.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^4)
Min
File: HP MS 31.D, Ion 156.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^3)
Min
File: HP MS 31.D, Ion 170.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^3)
Min
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Y (x10^3)
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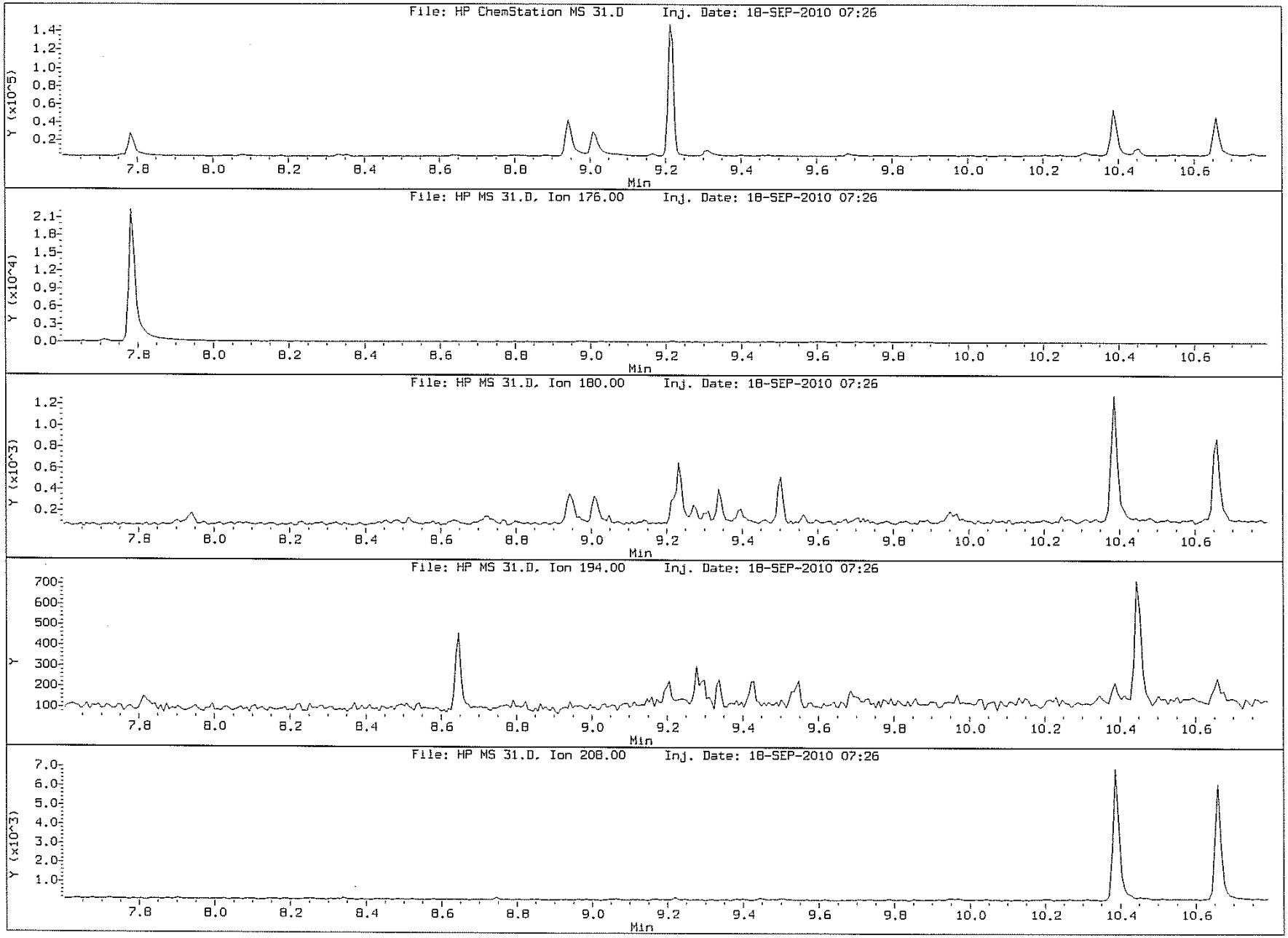
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Y (x10^5)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 31.D, Ion 176.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^4)
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 31.D, Ion 180.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^3)
1.2
1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
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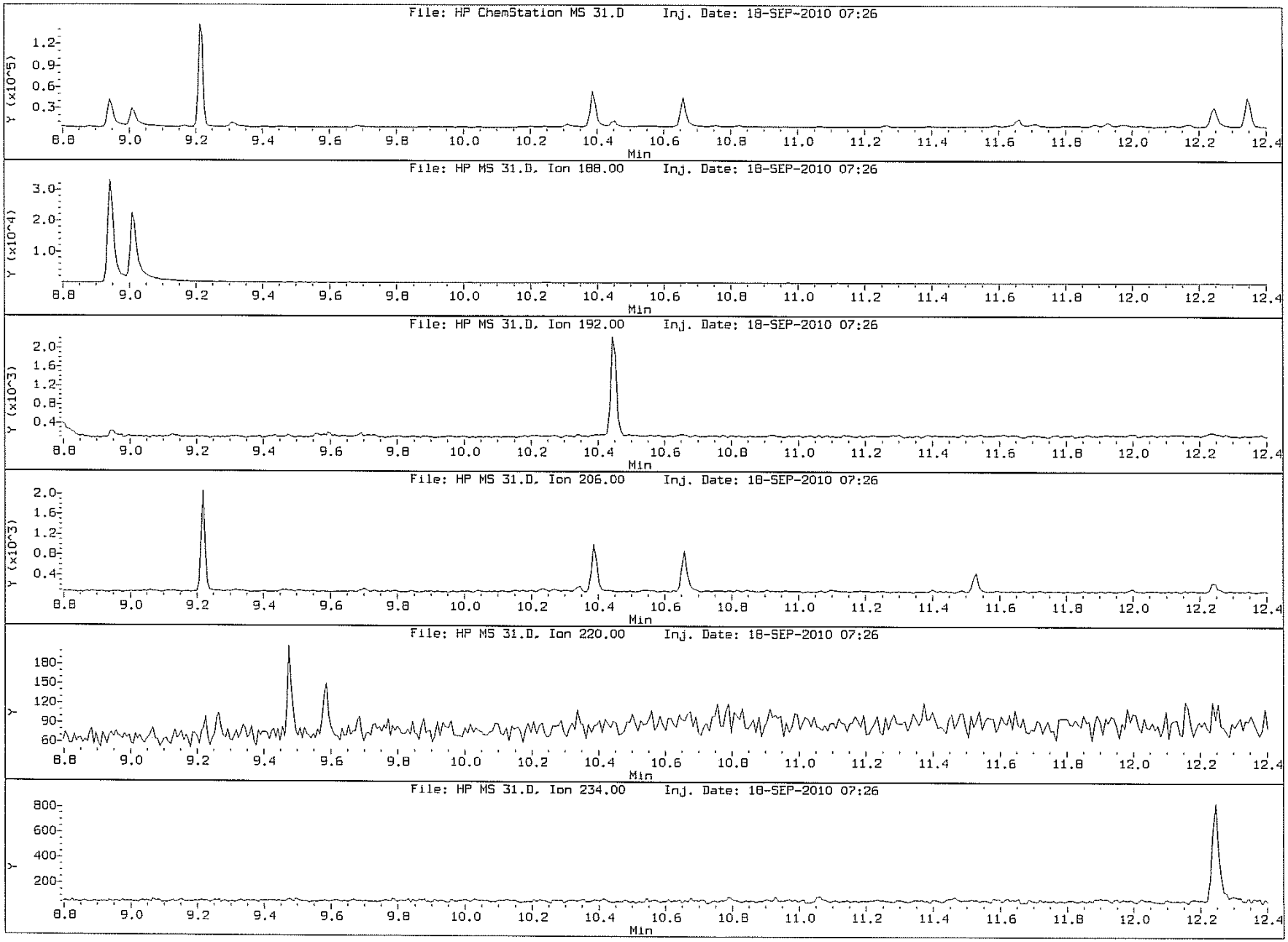
Y
700
600
500
400
300
200
100
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 31.D, Ion 208.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^3)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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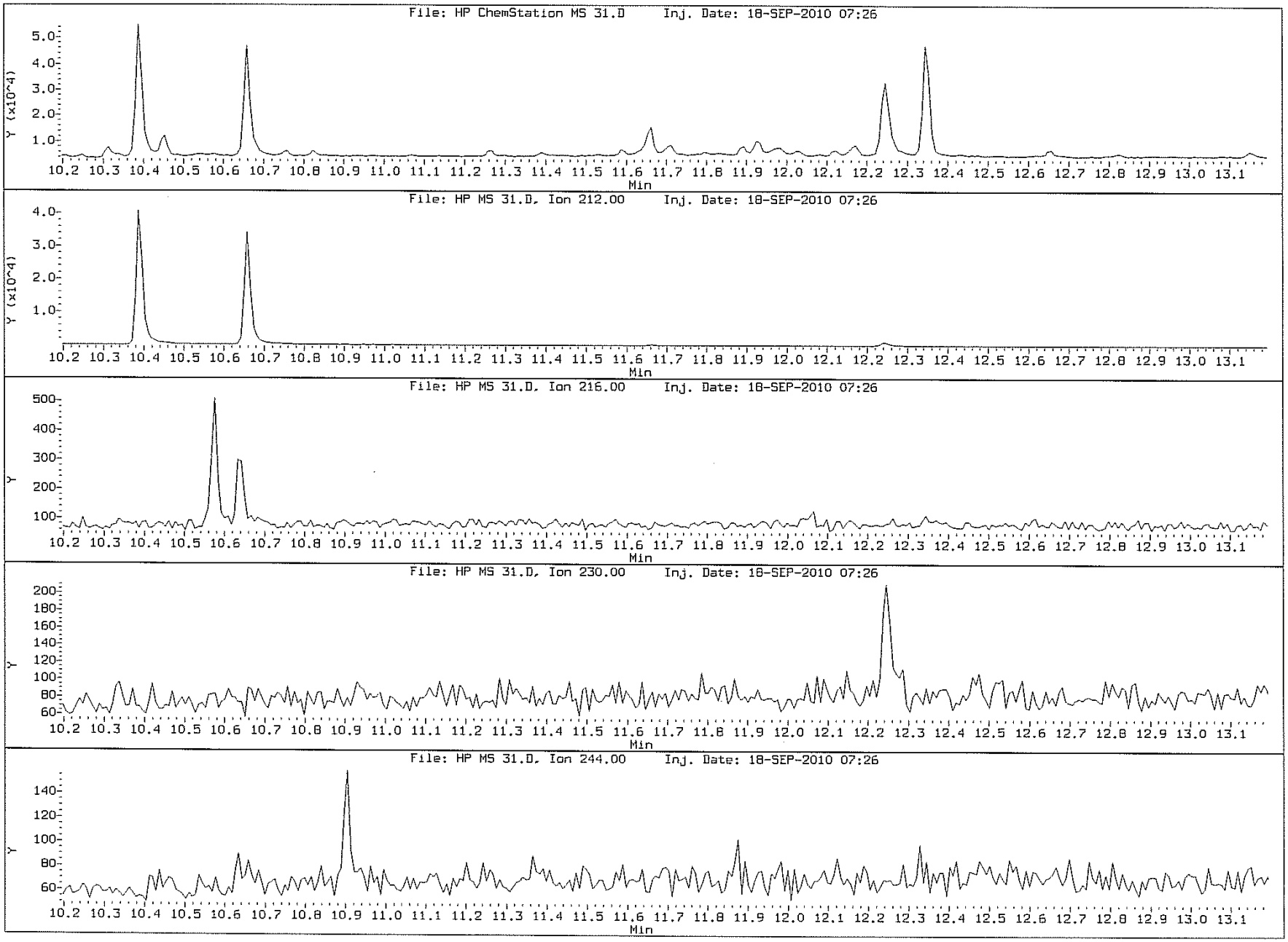
0.9
0.6
0.3
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 31.D, Ion 188.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^4)
3.0
2.0
1.0
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 31.D, Ion 192.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^3)
2.0
1.6
1.2
0.8
0.4
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 31.D, Ion 206.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^3)
2.0
1.6
1.2
0.8
0.4
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 31.D, Ion 220.00 Inj. Date: 18-SEP-2010 07:26
Y
180
150
120
90
60
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 31.D, Ion 234.00 Inj. Date: 18-SEP-2010 07:26
Y
800
600
400
200
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min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Y (x10^4)
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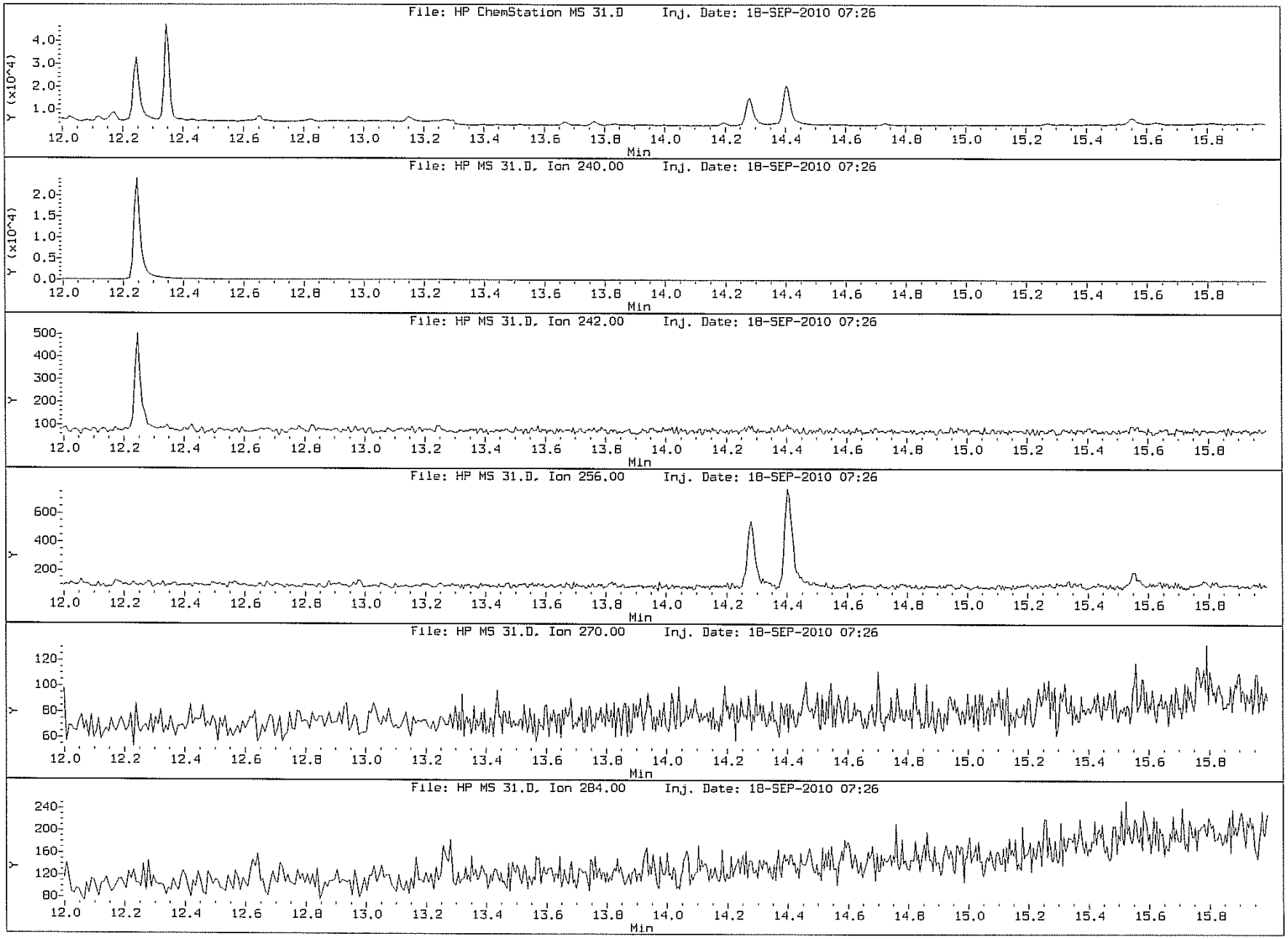
4.0
3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 31.D, Ion 212.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^4)
4.0
3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 31.D, Ion 216.00 Inj. Date: 18-SEP-2010 07:26
Y
500
400
300
200
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 31.D, Ion 230.00 Inj. Date: 18-SEP-2010 07:26
Y
200
180
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 31.D, Ion 244.00 Inj. Date: 18-SEP-2010 07:26
Y
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min


File: HP ChemStation MS 31.D Inj. Date: 18-SEP-2010 07:26
Y (x10^4)
4.0
3.0
2.0
1.0
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 31.D, Ion 240.00 Inj. Date: 18-SEP-2010 07:26
Y (x10^4)
2.0
1.5
1.0
0.5
0.0
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 31.D, Ion 242.00 Inj. Date: 18-SEP-2010 07:26
Y
500
400
300
200
100
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 31.D, Ion 256.00 Inj. Date: 18-SEP-2010 07:26
Y
600
400
200
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 31.D, Ion 270.00 Inj. Date: 18-SEP-2010 07:26
Y
120
100
80
60
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 31.D, Ion 284.00 Inj. Date: 18-SEP-2010 07:26
Y
240
200
160
120
80
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV7 Calibration Date: 09/18/10 Time: 0750

Lab File ID: 32 Init. Calib. Date(s): 09/16/10 09/16/10

Init. Calib. Times: 1509 1712

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	$\overline{RRF}$	RRF0.4	MIN RRF	%D	MAX %D
Naphthalene	1.228	1.179	0.7	4.0	30.0
2-Methylnaphthalene	0.646	0.599	0.4	7.3	30.0
1-Methylnaphthalene	0.799	0.758	0.01	5.1	30.0
2-Methylnaphthalene-d10	0.610	0.593	0.01	2.8	30.0
Acenaphthylene	2.158	2.210	0.9	2.4	30.0
Acenaphthene	1.382	1.378	0.9	0.3	30.0
Fluorene	1.229	1.271	0.9	3.4	30.0
Phenanthrene	1.192	1.163	0.7	2.4	30.0
Anthracene	1.344	1.384	0.7	3.0	30.0
2,3-Dimethylanthracene	0.788	0.837	0.01	6.2	30.0
1-Methylphenanthrene	1.029	1.018	0.01	1.1	30.0
Fluoranthene	1.164	1.100	0.6	5.5	30.0
Pyrene	1.308	1.237	0.6	5.4	30.0
2-Methylfluoranthenes	0.746	0.723	0.01	3.1	30.0
1-Methylpyrene	0.815	0.811	0.01	0.5	30.0
Benzo(a)anthracene	1.030	1.016	0.8	1.4	30.0
Chrysene	1.566	1.508	0.7	3.7	30.0
6-Methylchrysene	0.886	0.874	0.01	1.4	30.0
Benzo(b)fluoranthene	1.285	1.296	0.7	0.8	30.0
Benzo(k)fluoranthene	1.811	1.788	0.7	1.3	30.0
Benzo(e)pyrene	1.435	1.397	0.01	2.6	30.0
Benzo(a)pyrene	1.384	1.393	0.7	0.6	30.0
Perylene	1.509	1.552	0.01	2.8	30.0
Indeno(1,2,3-cd)pyrene	1.009	1.023	0.5	1.4	30.0
Dibenzo(a,h)anthracene	1.224	1.244	0.4	1.6	30.0
Benzo(g,h,i)perylene	1.379	1.312	0.5	4.8	30.0
Acenaphthylene-d8	1.858	1.899	0.01	2.2	30.0
Anthracene-d10	1.258	1.191	0.01	5.3	30.0
Pyrene-d10	1.062	1.021	0.01	3.9	30.0
Benzo(a)pyrene-d12	0.686	0.680	0.01	0.9	30.0

FORM VII SV

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100917.b\32.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 18-SEP-2010 07:50 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : CCV;CCV;2
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100917.b\8270AP.m
Meth Date : 20-Sep-2010 15:23 Hoai.Van Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

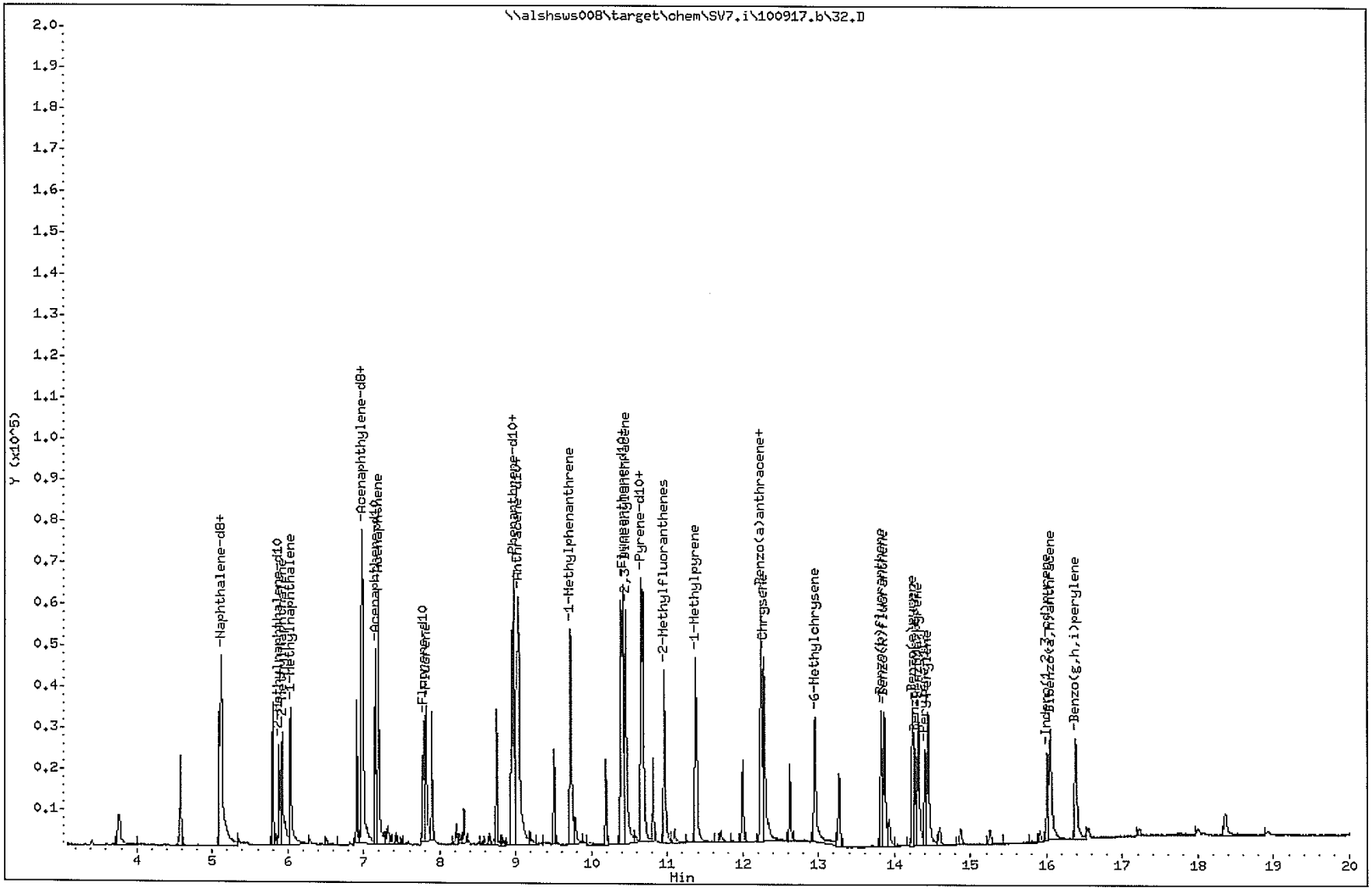
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	64226	0.40000	
	2 Naphthalene	128	5.124	5.124	(1.004)	75738	0.40000	0.3842
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.154)	38108	0.40000	0.3889
	3 2-Methylnaphthalene	142	5.925	5.925	(1.161)	38454	0.40000	0.3706
	4 1-Methylnaphthalene	142	6.038	6.038	(1.183)	48665	0.40000	0.3793
$	12 Acenaphthylene-d8	160	6.966	6.966	(0.974)	60293	0.40000	0.4088
	10 Acenaphthylene	152	6.981	6.981	(0.976)	70140	0.40000	0.4096
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	31743	0.40000	
	11 Acenaphthene	153	7.193	7.193	(1.005)	43743	0.40000	0.3989
*	13 Fluorene-d10	176	7.782	7.782	(1.000)	38735	0.40000	
	14 Fluorene	166	7.819	7.819	(1.005)	49228	0.40000	0.4136
*	18 Phenanthrene-d10	188	8.942	8.942	(1.000)	55699	0.40000	
	19 Phenanthrene	178	8.968	8.968	(1.003)	64773	0.40000	0.3904
$	27 Anthracene-d10	188	9.008	9.008	(1.007)	66324	0.40000	0.3784
	20 Anthracene	178	9.034	9.034	(1.010)	77099	0.40000	0.4117
	26 1-Methylphenanthrene	192	9.718	9.718	(1.087)	56720	0.40000	0.3957
*	28 Fluoranthene-d10	212	10.386	10.386	(1.000)	64807	0.40000	
	29 Fluoranthene	202	10.411	10.411	(1.002)	71270	0.40000	0.3779
	25 2,3-Dimethylanthracene	206	10.452	10.452	(1.169)	46628	0.40000	0.4249
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	66175	0.40000	0.3845
	30 Pyrene	202	10.682	10.682	(1.029)	80148	0.40000	0.3782

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	34 2-Methylfluoranthenes	216	10.962	10.962	(1.055)	46850	0.40000	0.3874
	35 1-Methylpyrene	216	11.373	11.373	(1.095)	52556	0.40000	0.3979
	38 Benzo(a)anthracene	228	12.228	12.228	(0.999)	53974	0.40000	0.3945
*	37 Chrysene-d12	240	12.245	12.245	(1.000)	53141	0.40000	
	39 Chrysene	228	12.278	12.278	(1.003)	80125	0.40000	0.3852
	44 6-Methylchrysene	242	12.952	12.952	(1.058)	46436	0.40000	0.3944
	47 Benzo(b)fluoranthene	252	13.825	13.825	(0.960)	51798	0.40000	0.4034
	48 Benzo(k)fluoranthene	252	13.864	13.864	(0.963)	71467	0.40000	0.3949
	49 Benzo(e)pyrene	252	14.236	14.236	(0.988)	55834	0.40000	0.3893
$	45 Benzo(a)pyrene-d12	264	14.280	14.280	(1.166)	36120	0.40000	0.3966
	50 Benzo(a)pyrene	252	14.314	14.314	(0.994)	55668	0.40000	0.4027
*	46 Perylene-d12	264	14.402	14.402	(1.000)	39965	0.40000	
	51 Perylene	252	14.441	14.441	(1.003)	62043	0.40000	0.4115
	52 Indeno(1,2,3-cd)pyrene	276	16.007	16.007	(1.111)	40883	0.40000	0.4053
	53 Dibenzo(a,h)anthracene	278	16.051	16.051	(1.114)	49725	0.40000	0.4066
	54 Benzo(g,h,i)perylene	276	16.384	16.384	(1.138)	52441	0.40000	0.3805

Data File: \\alshsws008\target\chem\SV7.i\100917.b\32.D
Date : 18-SEP-2010 07:50
Client ID: CCV
Sample Info: CCV;CCV;2
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28



ALS Laboratory Group 9/20/10

GC/MS SV #7 Instrument Run Log

Logbook # 23101

Sequence # ~~100419~~ 100919 | Method: SOW-EPA-R4 | SOP #: MSSV-004

RPM: | IS ID: 22717-12-05 | CAL STD ID: 22717-13-02 | DFTPP ID: 22717-30-07

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
1	DFTPP	50 ng					9/19/10	1818	✓		
2	CCV	0.4 ppm						1845	✓		
3	1009537	ABLCSWI-100919	WATER	1000 mL	1.0	1		1921	✓		#46131
4	543/582	ALCSDWI-						1945	✓		
5		ABLKWI-						2010	✓		
6	1009537	09F						2035	✓		
7		07F						2059	✓		
8	1009543	02F						2124	✓		
9		10F						2148	✓		2x surr. added.
10		11F						2213	✓		
11		13F						2237	✓		
12		14F						2302	✓		
13	1009582	02E						2326	✓		
14		04E						2351	✓		
15		06E	✓	✓	✓	✓	9/20/10	0015	✓		
16	CCV	~~07E~~ 0.4 ppm						0040	✓		
17	1009582	ALCSWI-100919	WATER	1000 mL	1.0	1		0105	✓		#46151
18		ALCSDWI-						0129	✓		
19		ABLKWI-						0154	✓		
20		10E						0218	✓		
21		MS						0243	✓		
22		MSD						0307	✓		
23		14E						0332	✓		
24	1009582	07E						0356	✓		
25		11E	✓	✓	✓	✓	✓	0421	✓	✓	

IS1 Naphthalene-d8:	38183 / 48848	IS2 Acenapthene-d10:	19474 / 24149
IS3 Fluorene-d10:	22738 / 28104	IS4 Phenanthrene-d10:	31720 / 39504
IS5 Fluoranthene-d10:	38981 / 50338	IS6 Chrysene-d12:	32069 / 41598
IS7 Perylene-d12:	23997 / 31248		

#2/#16

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ALS Laboratory Group **GC/MS SV #7 Instrument Run Log** **Logbook # 23101**

Sequence # ~~10019~~ 100919 (CONT'D)		Method: SOW-EPA-R4	SOP #: MSSV-004
RPM: [illegible] 9/20/10	IS ID: 22717-1205	CAL STD ID: 22717-13-02	DFTPP ID: 22717-30-07

File #	WO #	SX #	Soil/ Water	Sample Vol. (mL or g)	Final Vol. (mL)	Dil. Fac	Inj. Date	Inj. Time	Status	Analyst Initials	Comments
26 1	1009582	13E	WATER	1000 mL	1.0	1	9/20/10	0446	✓	[illegible]	
27 2	SURR CHK	209116803						0510	✓		
28 3	TUR.VAP CHK	9/20/10						0535	✓		
29 4	CCV	0.4 ppm						0559	✓		
30 5	1009582	ALCSSI-100918	SOIL	30 g	1.0	1		0624	✓		
31 6		ABLKSI-		[illegible] ~~15 g~~ 30 g	1.0			0648	✓		
32 7		01D		9/20/10 15.01 g	15 g			0713	✓		
33 8		03D		15.03 g	15.01 g			0737	✓		
34 9		05D		15.07 g	15.03 g			0802	✓		
35 10		08D		15.09 g	15.07 g			0827	✓		
36 11		MS		15.05 g	15.09 g			0851	✓		
37 12		MSD		~~15.06 g~~	15.05 g			0916	✓		
38 13		09D		15.06 g	1.0			0940	✓		
39 14	WBATH	#1						1005	✓		
40 15		#2						1029	✓		
41 16	CCV	0.4 ppm						1054	✓		
17											
18											
19											
20											
21											
22											
23											
24											
25	[illegible] 9/20/10										[illegible] 9/20/10

IS1 Naphthalene-d8:	42813 / 47570	IS2 Acenapthene-d10:	21847 / 24297
IS3 Fluorene-d10:	24257 / 27471	IS4 Phenanthrene-d10:	33232 / 38183
IS5 Fluoranthene-d10:	44449 / 48704	IS6 Chrysene-d12:	36529 / 40775
IS7 Perylene-d12:	27812 / 30471		

#29 / #41

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FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV7 Calibration Date: 09/19/10 Time: 1845

Lab File ID: 2 Init. Calib. Date(s): 09/16/10 09/16/10

Init. Calib. Times: 1509 1712

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	$\overline{RRF}$	RRF0.4	MIN RRF	%D	MAX %D
Naphthalene	1.228	1.217	0.7	0.9	30.0
2-Methylnaphthalene	0.646	0.589	0.4	8.8	30.0
1-Methylnaphthalene	0.799	0.832	0.01	4.1	30.0
2-Methylnaphthalene-d10	0.610	0.622	0.01	2.0	30.0
Acenaphthylene	2.158	2.156	0.9	0.1	30.0
Acenaphthene	1.382	1.328	0.9	3.9	30.0
Fluorene	1.229	1.311	0.9	6.7	30.0
Phenanthrene	1.192	1.212	0.7	1.7	30.0
Anthracene	1.344	1.427	0.7	6.2	30.0
2,3-Dimethylanthracene	0.788	0.848	0.01	7.6	30.0
1-Methylphenanthrene	1.029	1.153	0.01	12.0	30.0
Fluoranthene	1.164	1.230	0.6	5.7	30.0
Pyrene	1.308	1.247	0.6	4.7	30.0
2-Methylfluoranthenes	0.746	0.729	0.01	2.3	30.0
1-Methylpyrene	0.815	0.810	0.01	0.6	30.0
Benzo(a)anthracene	1.030	1.022	0.8	0.8	30.0
Chrysene	1.566	1.549	0.7	1.1	30.0
6-Methylchrysene	0.886	0.889	0.01	0.3	30.0
Benzo(b)fluoranthene	1.285	1.312	0.7	2.1	30.0
Benzo(k)fluoranthene	1.811	1.887	0.7	4.2	30.0
Benzo(e)pyrene	1.435	1.424	0.01	0.8	30.0
Benzo(a)pyrene	1.384	1.400	0.7	1.2	30.0
Perylene	1.509	1.574	0.01	4.3	30.0
Indeno(1,2,3-cd)pyrene	1.009	0.998	0.5	1.1	30.0
Dibenzo(a,h)anthracene	1.224	1.256	0.4	2.6	30.0
Benzo(g,h,i)perylene	1.379	1.352	0.5	2.0	30.0
Acenaphthylene-d8	1.858	1.832	0.01	1.4	30.0
Anthracene-d10	1.258	1.288	0.01	2.4	30.0
Pyrene-d10	1.062	1.012	0.01	4.7	30.0
Benzo(a)pyrene-d12	0.686	0.684	0.01	0.3	30.0

FORM VII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 2 Date Analyzed: 09/19/10

Instrument ID: SV7 Time Analyzed: 1845

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	38183	5.09	19474	7.16	22738	7.78
	UPPER LIMIT	76366	5.59	38948	7.66	45476	8.28
	LOWER LIMIT	19092	4.59	9737	6.66	11369	7.28
	CLIENT SAMPLE NO.						
01	ALCSW1-10091	39539	5.09	20492	7.16	25090	7.79
02	ALCSDW1-1009	39365	5.10	20675	7.16	25441	7.79
03	ABLKW1-10091	37693	5.10	20946	7.16	26405	7.78
04	1009543-02F	41801	5.10	20825	7.16	26625	7.78
05	1009543-10F	41427	5.09	21723	7.16	27358	7.78
06	1009543-11F	42201	5.10	21764	7.16	27526	7.78
07	1009543-13F	38753	5.10	21549	7.16	27032	7.78
08	1009543-14F	39841	5.10	20876	7.16	27343	7.78
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 = Fluorene-d10

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 internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 2 Date Analyzed: 09/19/10

Instrument ID: SV7 Time Analyzed: 1845

		IS4 (PHN) AREA	#	RT	#	IS5 AREA	#	RT	#	IS6 (CRY) AREA	#	RT	#
	12 HOUR STD	31720		8.94		38981		10.39		32069		12.25	
	UPPER LIMIT	63440		9.44		77962		10.89		64138		12.75	
	LOWER LIMIT	15860		8.44		19491		9.89		16035		11.75	
	CLIENT SAMPLE NO.												
01	ALCSW1-10091	32726		8.95		41305		10.39		33348		12.25	
02	ALCSDW1-1009	29016		8.95		39285		10.40		31161		12.25	
03	ABLKW1-10091	33910		8.95		41514		10.39		32251		12.25	
04	1009543-02F	37147		8.94		41583		10.39		32946		12.25	
05	1009543-10F	37665		8.94		43691		10.39		34811		12.25	
06	1009543-11F	35965		8.94		43584		10.39		35281		12.25	
07	1009543-13F	35291		8.94		41848		10.39		35135		12.25	
08	1009543-14F	34533		8.94		42849		10.39		34630		12.25	
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 = Fluoranthene-d10
IS6 (CRY) = Chrysene-d12

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 internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Lab File ID (Standard): 2 Date Analyzed: 09/19/10

Instrument ID: SV7 Time Analyzed: 1845

		IS7 (PRY) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	23997	14.41				
	UPPER LIMIT	47994	14.91				
	LOWER LIMIT	11999	13.91				
	CLIENT SAMPLE NO.						
01	ALCSW1-10091	24773	14.41				
02	ALCSDW1-1009	22156	14.41				
03	ABLKW1-10091	23600	14.41				
04	1009543-02F	25985	14.40				
05	1009543-10F	27585	14.40				
06	1009543-11F	27747	14.40				
07	1009543-13F	26508	14.40				
08	1009543-14F	26319	14.40				
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS7 (PRY) = Perylene-d12

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 internal standard area values with an asterisk.
* Values outside of QC limits.

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100919.b\2.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 19-SEP-2010 18:45 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : CCV;CCV;2
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100919.b\8270AP.m
Meth Date : 20-Sep-2010 17:04 SV7.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Naphthalene-d8	136	5.094	5.102	(1.000)	38183	0.40000	
	2 Naphthalene	128	5.117	5.125	(1.004)	46475	0.40000	0.3966
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.156)	23732	0.40000	0.4074
	3 2-Methylnaphthalene	142	5.925	5.925	(1.163)	22484	0.40000	0.3644
	4 1-Methylnaphthalene	142	6.038	6.038	(1.185)	31753	0.40000	0.4162
$	12 Acenaphthylene-d8	160	6.966	6.967	(0.974)	35667	0.40000	0.3942
	10 Acenaphthylene	152	6.981	6.982	(0.976)	41986	0.40000	0.3996
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	19474	0.40000	
	11 Acenaphthene	153	7.193	7.193	(1.005)	25865	0.40000	0.3844
*	13 Fluorene-d10	176	7.782	7.790	(1.000)	22738	0.40000	
	14 Fluorene	166	7.819	7.820	(1.005)	29815	0.40000	0.4267
*	18 Phenanthrene-d10	188	8.942	8.949	(1.000)	31720	0.40000	
	19 Phenanthrene	178	8.975	8.975	(1.004)	38457	0.40000	0.4070
$	27 Anthracene-d10	188	9.014	9.015	(1.008)	40874	0.40000	0.4095
	20 Anthracene	178	9.034	9.034	(1.010)	45280	0.40000	0.4246
	26 1-Methylphenanthrene	192	9.725	9.725	(1.088)	36573	0.40000	0.4480
*	28 Fluoranthene-d10	212	10.394	10.395	(1.000)	38981	0.40000	
	29 Fluoranthene	202	10.411	10.411	(1.002)	47964	0.40000	0.4228
	25 2,3-Dimethylanthracene	206	10.452	10.452	(1.169)	26892	0.40000	0.4303
$	36 Pyrene-d10	212	10.658	10.658	(1.025)	39469	0.40000	0.3813
	30 Pyrene	202	10.682	10.683	(1.028)	48620	0.40000	0.3814

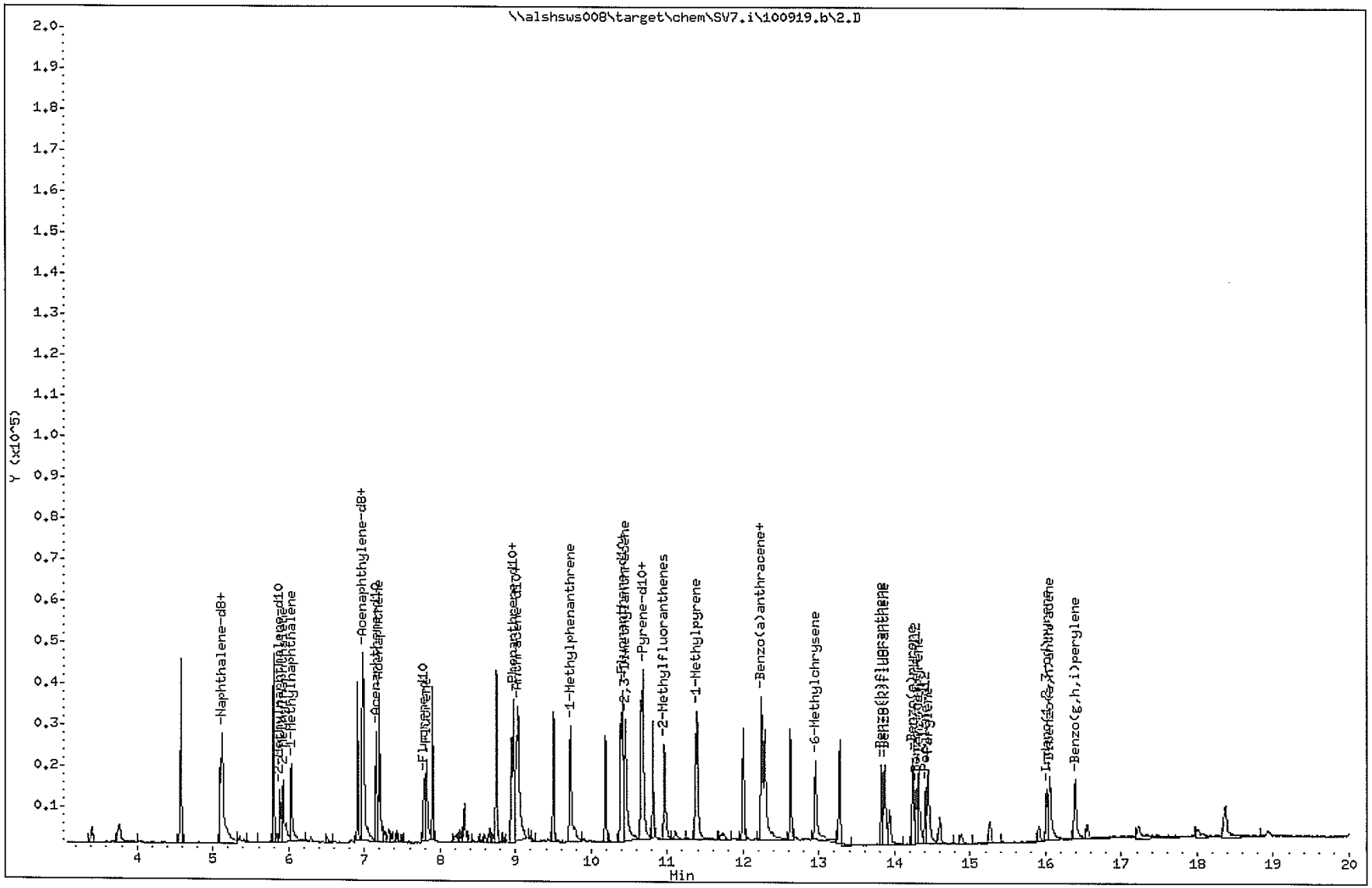
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
34	2-Methylfluoranthenes	216	10.962	10.962	(1.055)	28413	0.40000	0.3906
35	1-Methylpyrene	216	11.373	11.373	(1.094)	31587	0.40000	0.3976
38	Benzo(a)anthracene	228	12.237	12.237	(0.999)	32771	0.40000	0.3969
* 37	Chrysene-d12	240	12.245	12.253	(1.000)	32069	0.40000	
39	Chrysene	228	12.286	12.286	(1.003)	49682	0.40000	0.3958
44	6-Methylchrysene	242	12.952	12.953	(1.058)	28512	0.40000	0.4013
47	Benzo(b)fluoranthene	252	13.829	13.830	(0.960)	31482	0.40000	0.4084
48	Benzo(k)fluoranthene	252	13.869	13.869	(0.963)	45280	0.40000	0.4167
49	Benzo(e)pyrene	252	14.240	14.241	(0.988)	34176	0.40000	0.3969
$ 45	Benzo(a)pyrene-d12	264	14.285	14.285	(1.167)	21945	0.40000	0.3992
50	Benzo(a)pyrene	252	14.319	14.319	(0.994)	33586	0.40000	0.4046
* 46	Perylene-d12	264	14.407	14.407	(1.000)	23997	0.40000	
51	Perylene	252	14.451	14.446	(1.003)	37784	0.40000	0.4174
52	Indeno(1,2,3-cd)pyrene	276	16.012	16.017	(1.111)	23949	0.40000	0.3954(M)
53	Dibenzo(a,h)anthracene	278	16.056	16.056	(1.114)	30151	0.40000	0.4106
54	Benzo(g,h,i)perylene	276	16.388	16.389	(1.138)	32434	0.40000	0.3920

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV7.i\100919.b\2.D
Date : 19-SEP-2010 18:45
Client ID: CCV
Sample Info: CCV;CCV;2
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100919.b\3.D
Lab Smp Id: ALCSW1-100918 Client Smp ID: ALCSW1-100918
Inj Date : 19-SEP-2010 19:21 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ALCSW1-100918;ALCSW1-100918;3;;LCS
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100919.b\8270AP.m
Meth Date : 20-Sep-2010 17:04 SV7.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

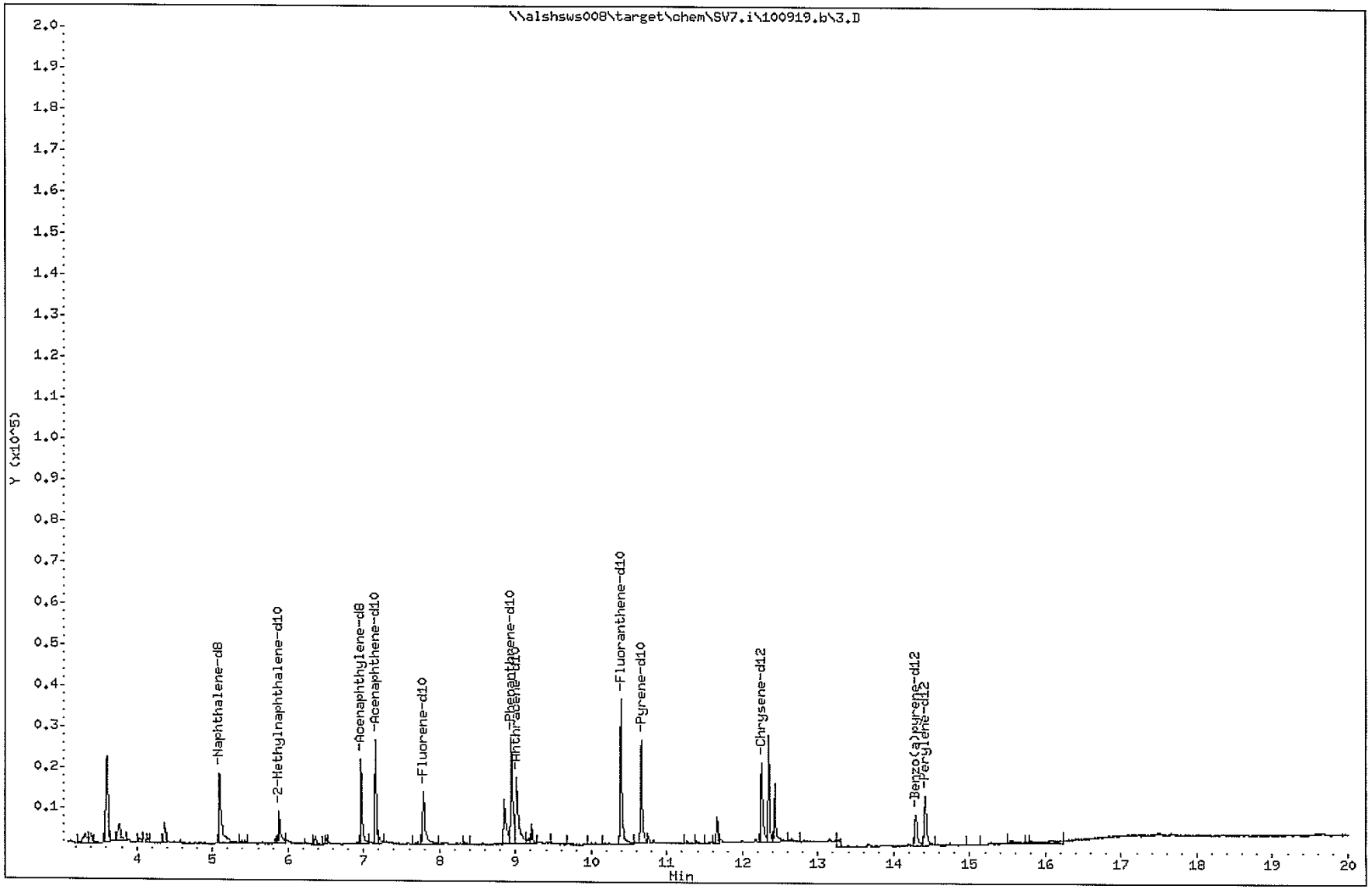
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Naphthalene-d8	136	5.094	5.102	(1.000)	39539	0.40000	
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.156)	16760	0.27786	0.2778
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	20492	0.40000	
$	12 Acenaphthylene-d8	160	6.966	6.967	(0.974)	26932	0.28287	0.2829
*	13 Fluorene-d10	176	7.789	7.790	(1.000)	25090	0.40000	
*	18 Phenanthrene-d10	188	8.949	8.949	(1.000)	32726	0.40000	
$	27 Anthracene-d10	188	9.014	9.015	(1.007)	34395	0.33403	0.3340
*	28 Fluoranthene-d10	212	10.394	10.395	(1.000)	41305	0.40000	
$	36 Pyrene-d10	212	10.666	10.658	(1.026)	31152	0.28402	0.2840
*	37 Chrysene-d12	240	12.253	12.253	(1.000)	33348	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.289	14.285	(1.166)	14970	0.26190	0.2619
*	46 Perylene-d12	264	14.412	14.407	(1.000)	24773	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100919.b\3.D
Date : 19-SEP-2010 19:21
Client ID: ALCSW1-100918
Sample Info: ALCSW1-100918;ALCSW1-100918;3;;LCS
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100919.b\4.D
Lab Smp Id: ALCSDW1-100918 Client Smp ID: ALCSDW1-100918
Inj Date : 19-SEP-2010 19:45 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : ALCSDW1-100918;ALCSDW1-100918;3;;LCSD
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100919.b\8270AP.m
Meth Date : 20-Sep-2010 17:04 SV7.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

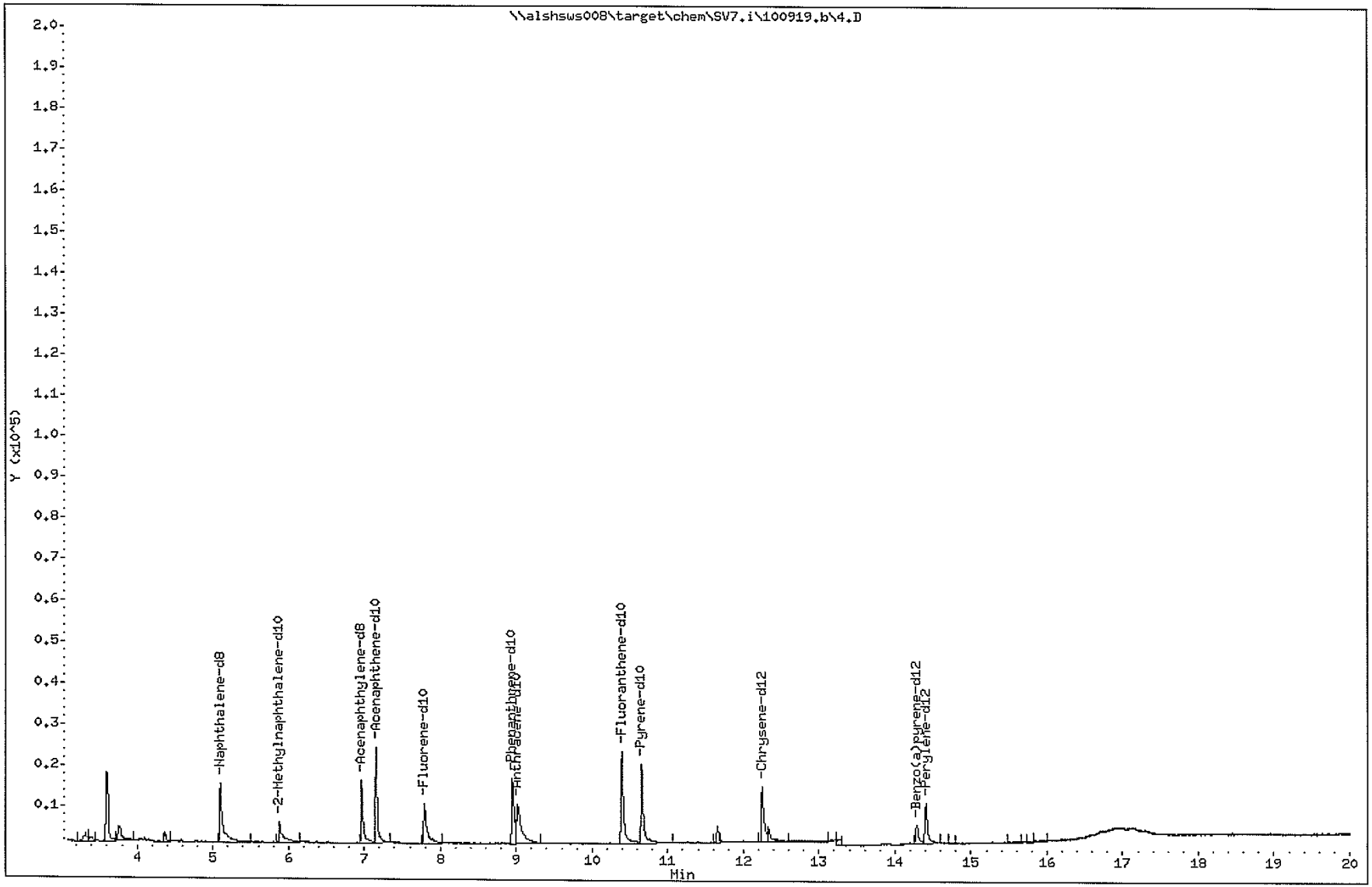
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	39365	0.40000	
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.154)	14531	0.24197	0.2420
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	20675	0.40000	
$	12 Acenaphthylene-d8	160	6.967	6.967	(0.974)	23897	0.24878	0.2488
*	13 Fluorene-d10	176	7.789	7.790	(1.000)	25441	0.40000	
*	18 Phenanthrene-d10	188	8.949	8.949	(1.000)	29016	0.40000	
$	27 Anthracene-d10	188	9.021	9.015	(1.008)	30471	0.33376	0.3338
*	28 Fluoranthene-d10	212	10.395	10.395	(1.000)	39285	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.025)	29386	0.28170	0.2817
*	37 Chrysene-d12	240	12.253	12.253	(1.000)	31161	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.290	14.285	(1.166)	10895	0.20399	0.2040
*	46 Perylene-d12	264	14.407	14.407	(1.000)	22156	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100919.b\4.D
Date : 19-SEP-2010 19:45
Client ID: ALCSDW1-100918
Sample Info: ALCSDW1-100918;ALCSDW1-100918;3;;LCSD
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28



ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100919.b\5.D
Lab Smp Id: ABLKW1-100918 Client Smp ID: ABLKW1-100918
Inj Date : 19-SEP-2010 20:10 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
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Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100919.b\8270AP.m
Meth Date : 20-Sep-2010 17:04 SV7.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

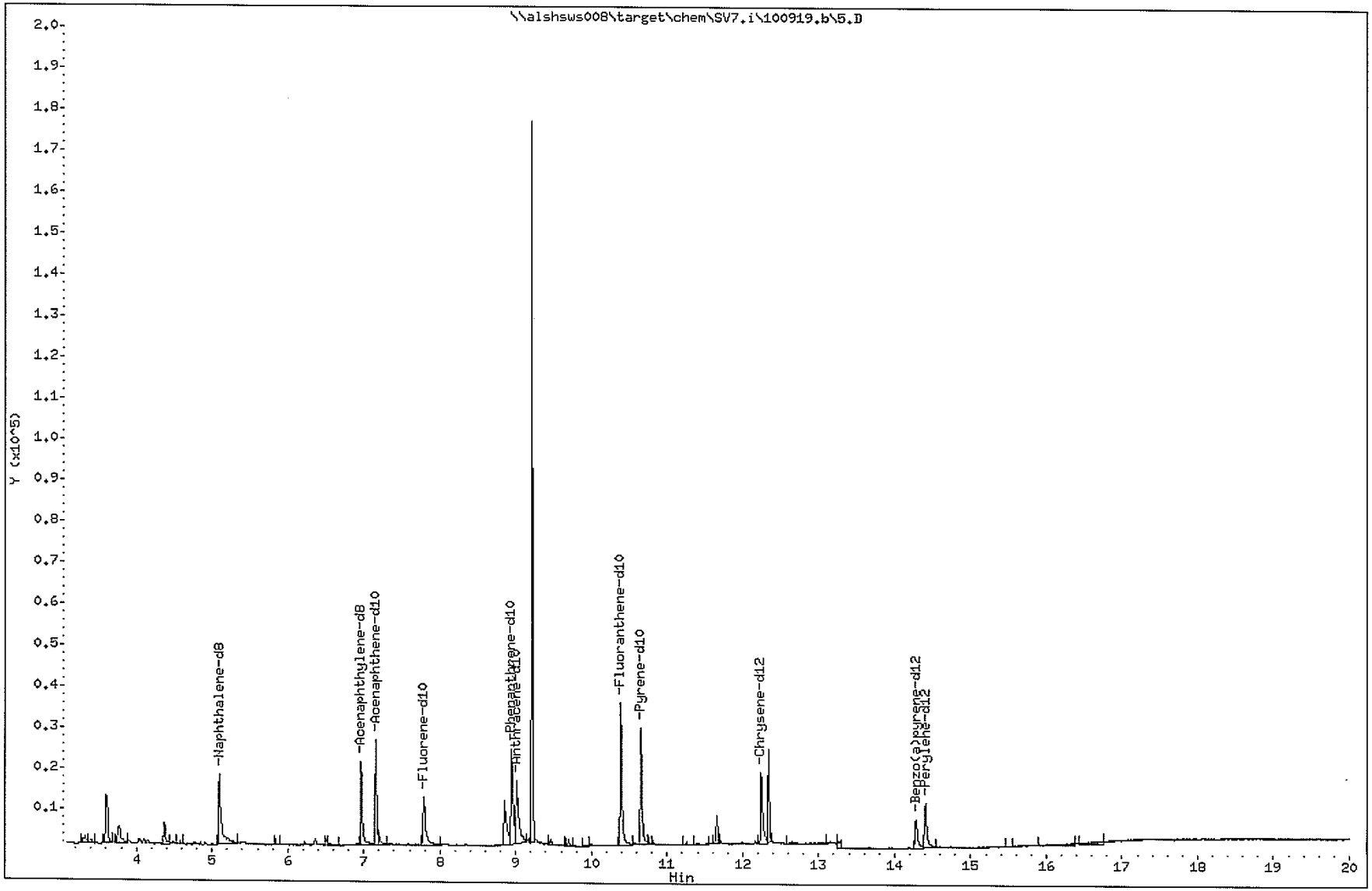
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

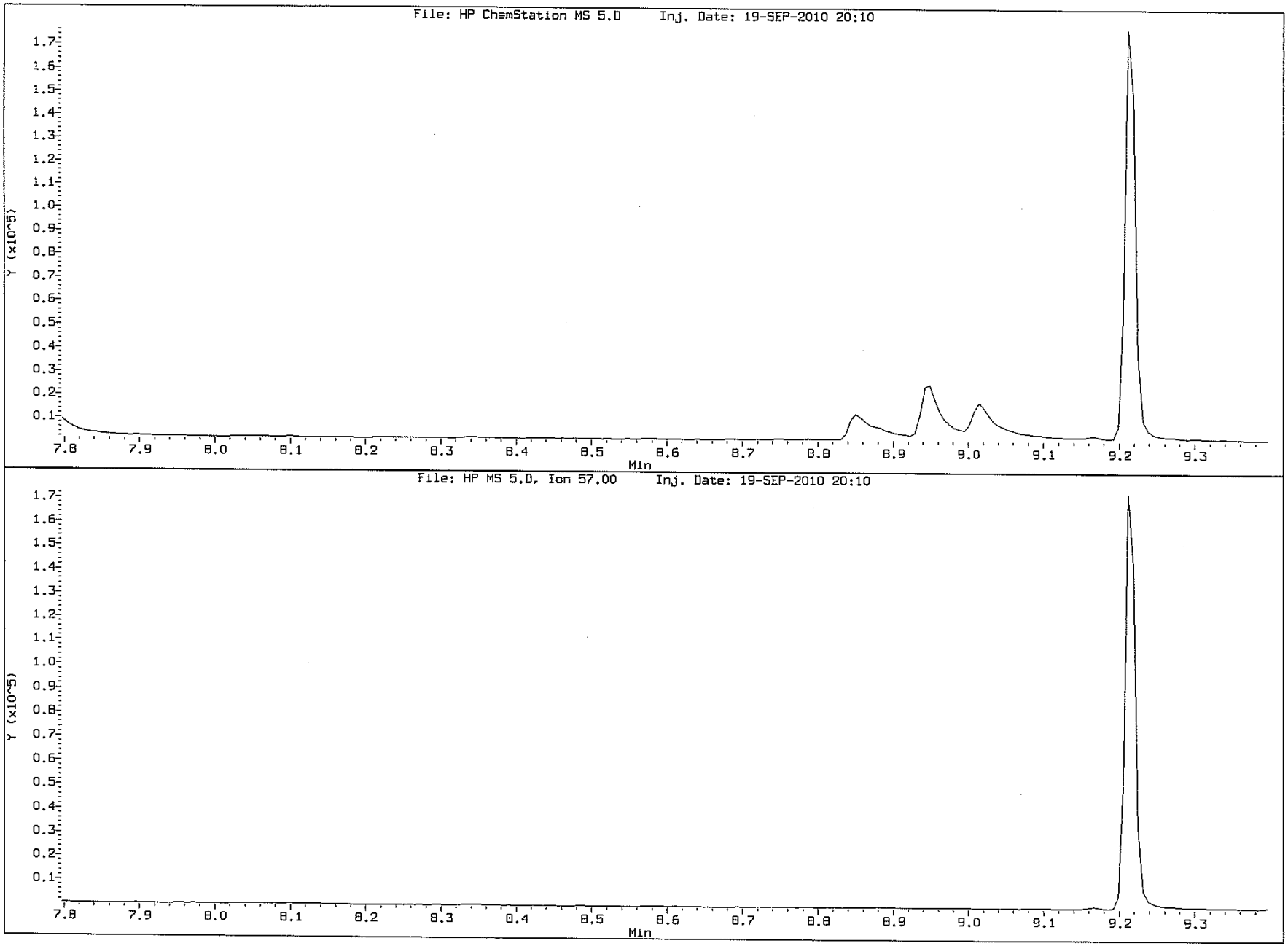
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	37693	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	20946	0.40000	
$	12 Acenaphthylene-d8	160	6.966	6.967	(0.974)	28438	0.29222	0.2922
*	13 Fluorene-d10	176	7.782	7.790	(1.000)	26405	0.40000	
*	18 Phenanthrene-d10	188	8.949	8.949	(1.000)	33910	0.40000	
$	27 Anthracene-d10	188	9.014	9.015	(1.007)	36237	0.35838	0.3584
*	28 Fluoranthene-d10	212	10.386	10.395	(1.000)	41514	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	33236	0.30150	0.3015
*	37 Chrysene-d12	240	12.245	12.253	(1.000)	32251	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.285	14.285	(1.167)	15096	0.27309	0.2731
*	46 Perylene-d12	264	14.407	14.407	(1.000)	23600	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100919.b\5.D
Date : 19-SEP-2010 20:10
Client ID: ABLKW1-100918
Sample Info: ABLKW1-100918;ABLKW1-100918;3;;BLANK
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i

Operator: ALSHS,NoUser
Column diameter: 0.28

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1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
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Y (x10^5)
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7.8
7.9
8.0
8.1
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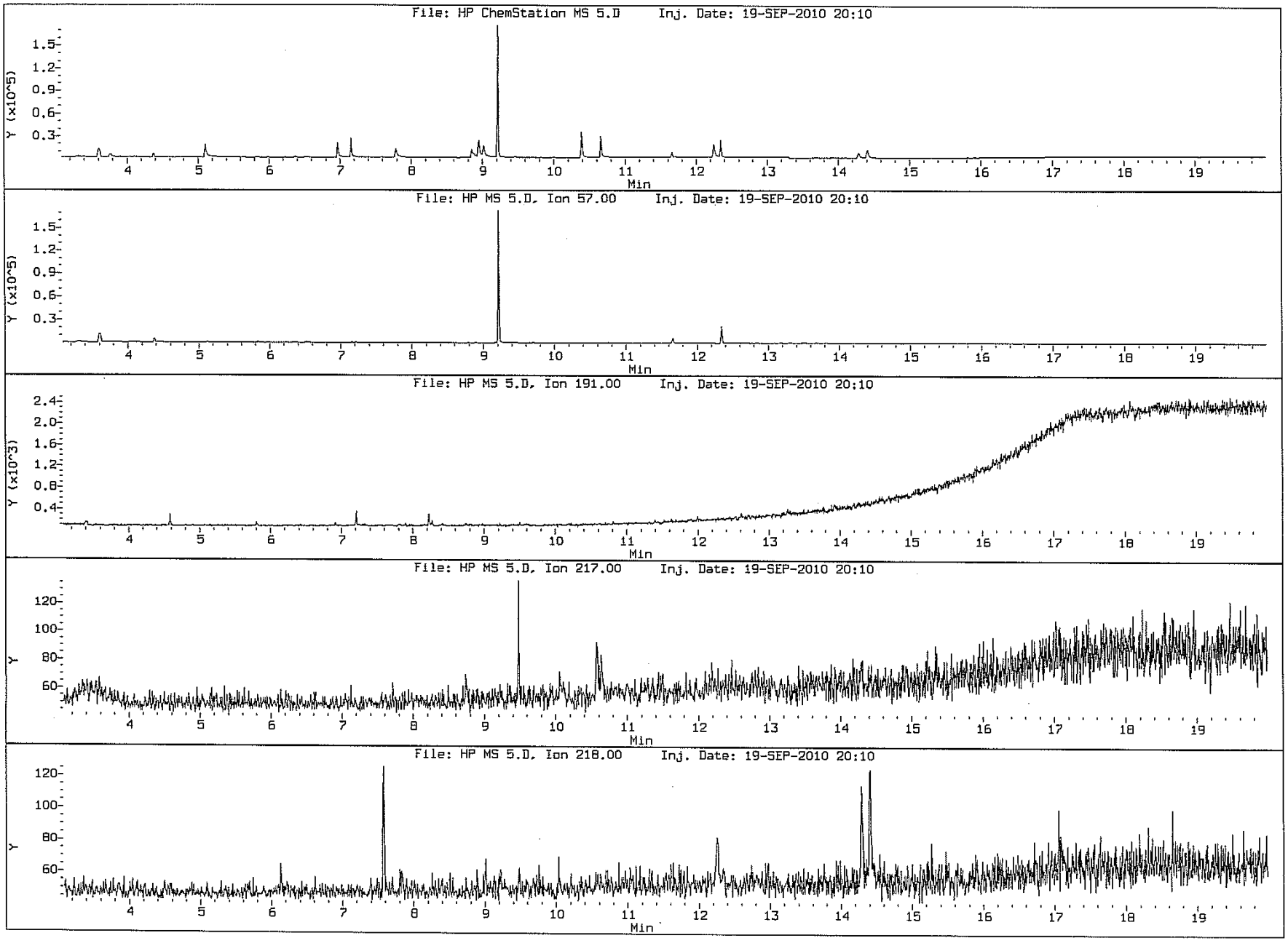
9.0
9.1
9.2
9.3
Min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1.2
0.9
0.6
0.3
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
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Y (x10^5)
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1.2
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0.6
0.3
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Min
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Y (x10^3)
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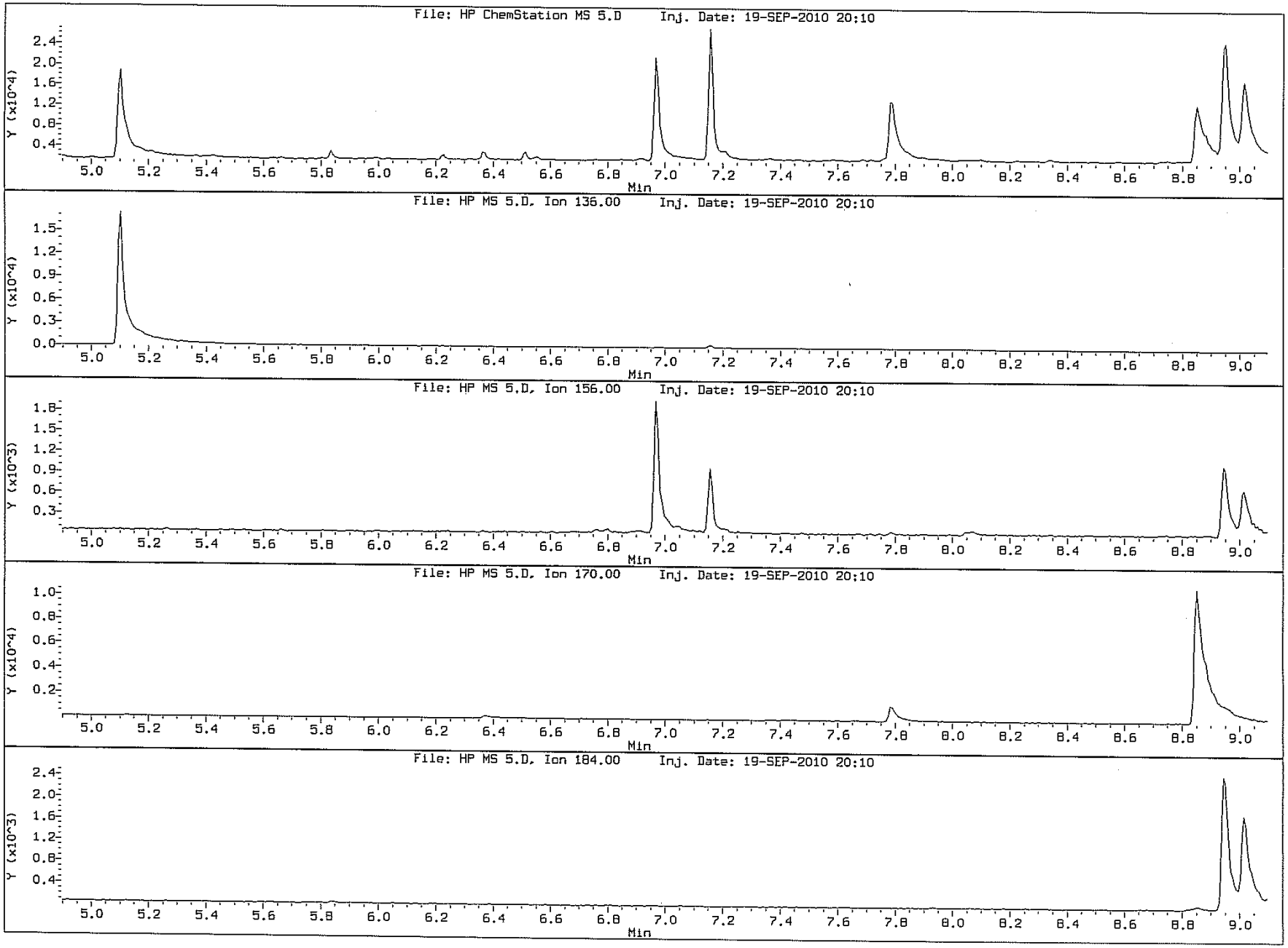
2.0
1.6
1.2
0.8
0.4
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
File: HP MS 5.D, Ion 217.00 Inj. Date: 19-SEP-2010 20:10
Y
120
100
80
60
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min
File: HP MS 5.D, Ion 218.00 Inj. Date: 19-SEP-2010 20:10
Y
120
100
80
60
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Min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Y (x10^4)
Min
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Min
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Y (x10^3)
Min
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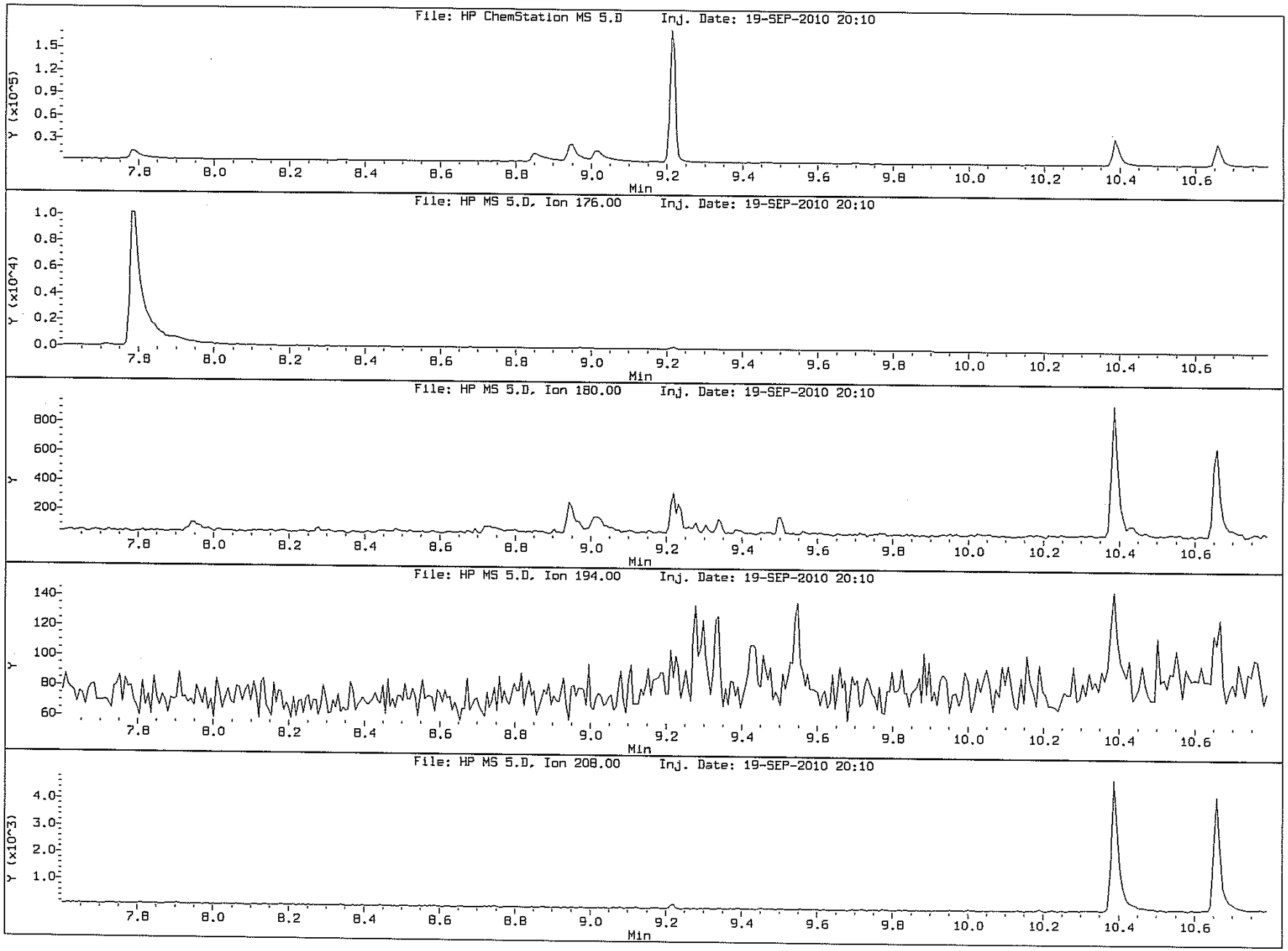
Y (x10^3)
Min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0.6
0.3
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Min
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0.6
0.4
0.2
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 5.D, Ion 180.00 Inj. Date: 19-SEP-2010 20:10
Y
800
600
400
200
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 5.D, Ion 194.00 Inj. Date: 19-SEP-2010 20:10
Y
140
120
100
80
60
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 5.D, Ion 208.00 Inj. Date: 19-SEP-2010 20:10
Y (x10^3)
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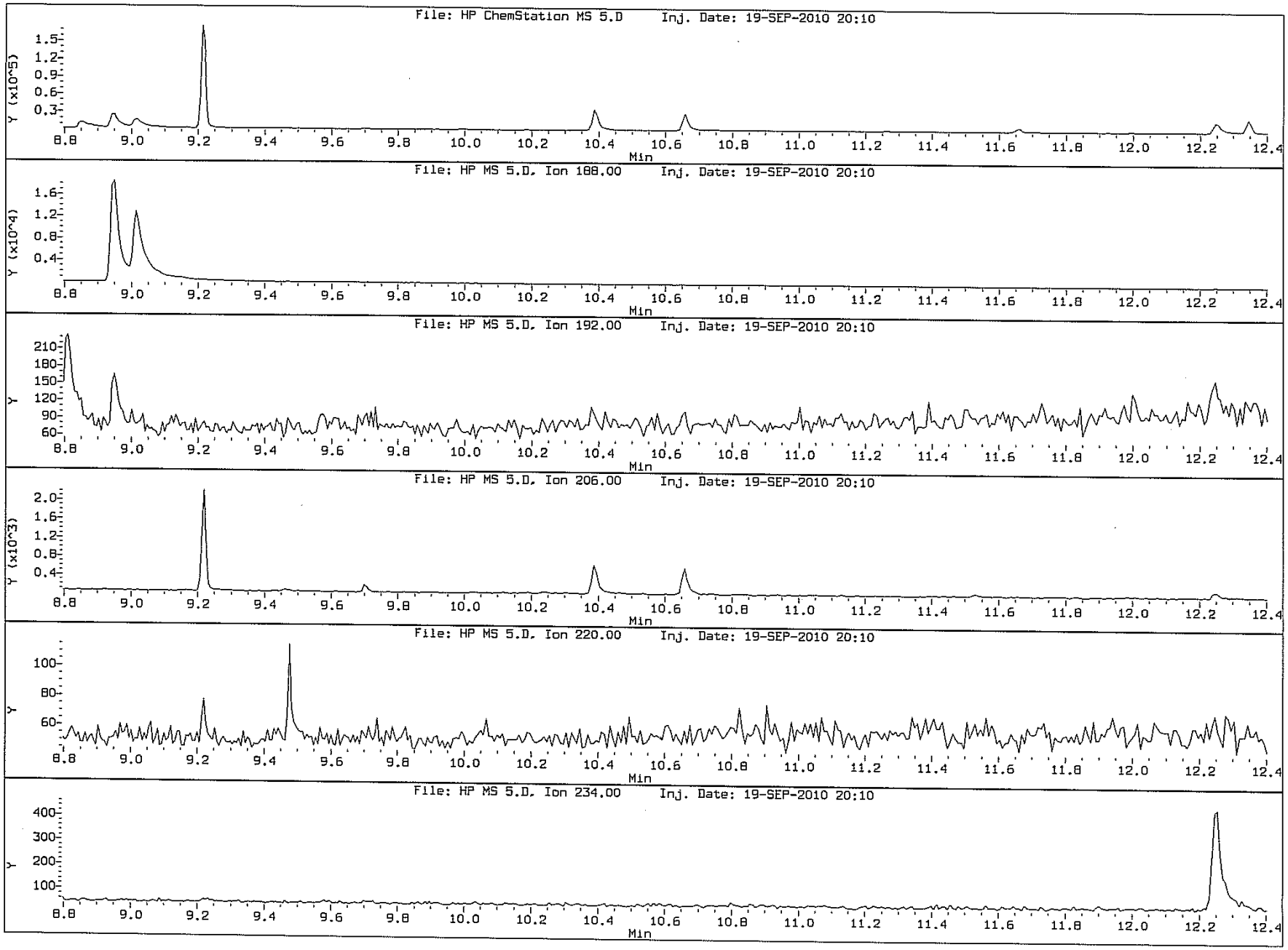
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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Y (x10^5)
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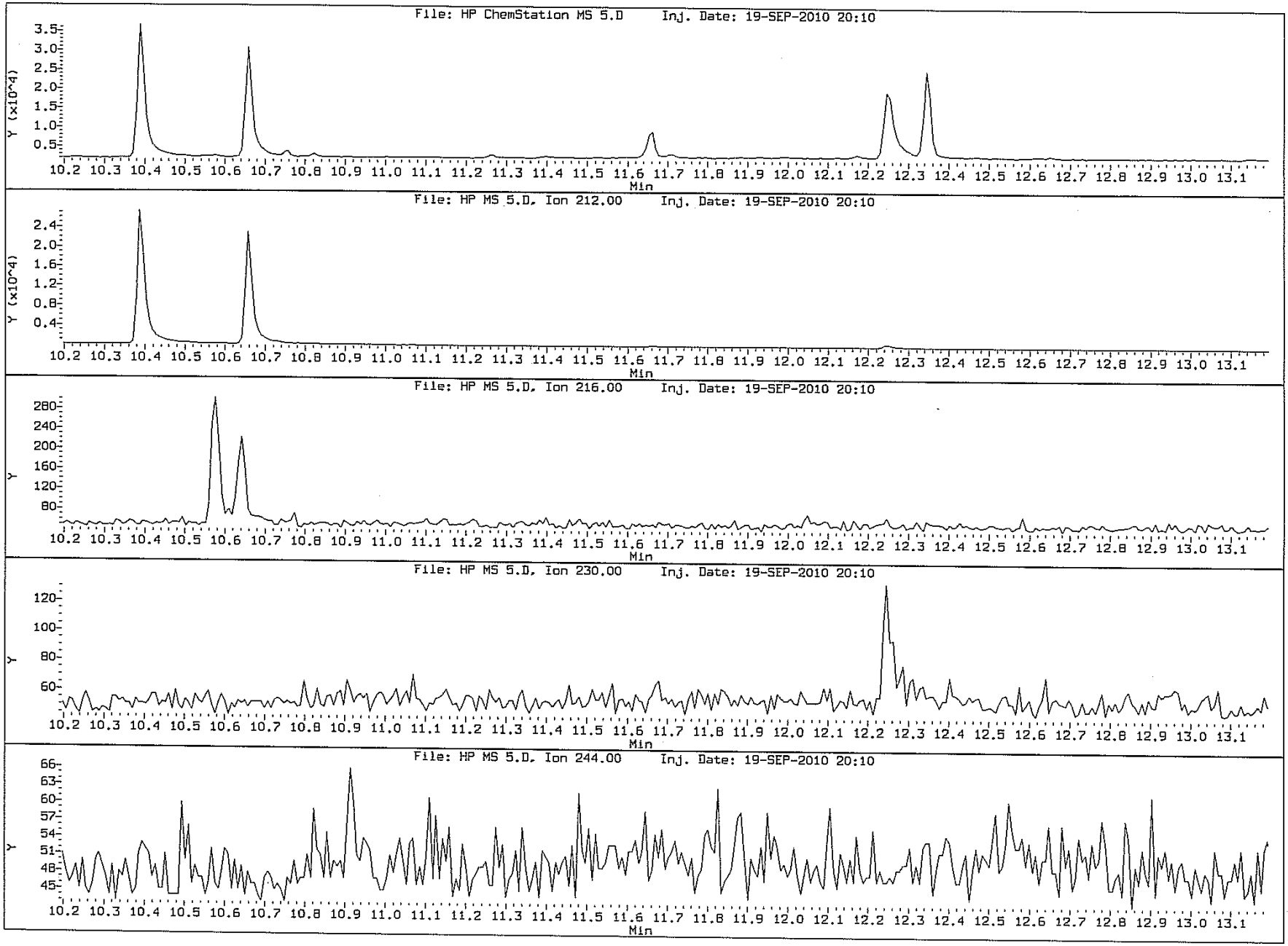
0.9
0.6
0.3
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 5.D, Ion 188.00 Inj. Date: 19-SEP-2010 20:10
Y (x10^4)
1.6
1.2
0.8
0.4
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 5.D, Ion 192.00 Inj. Date: 19-SEP-2010 20:10
Y
210
180
150
120
90
60
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 5.D, Ion 206.00 Inj. Date: 19-SEP-2010 20:10
Y (x10^3)
2.0
1.6
1.2
0.8
0.4
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 5.D, Ion 220.00 Inj. Date: 19-SEP-2010 20:10
Y
100
80
60
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 5.D, Ion 234.00 Inj. Date: 19-SEP-2010 20:10
Y
400
300
200
100
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min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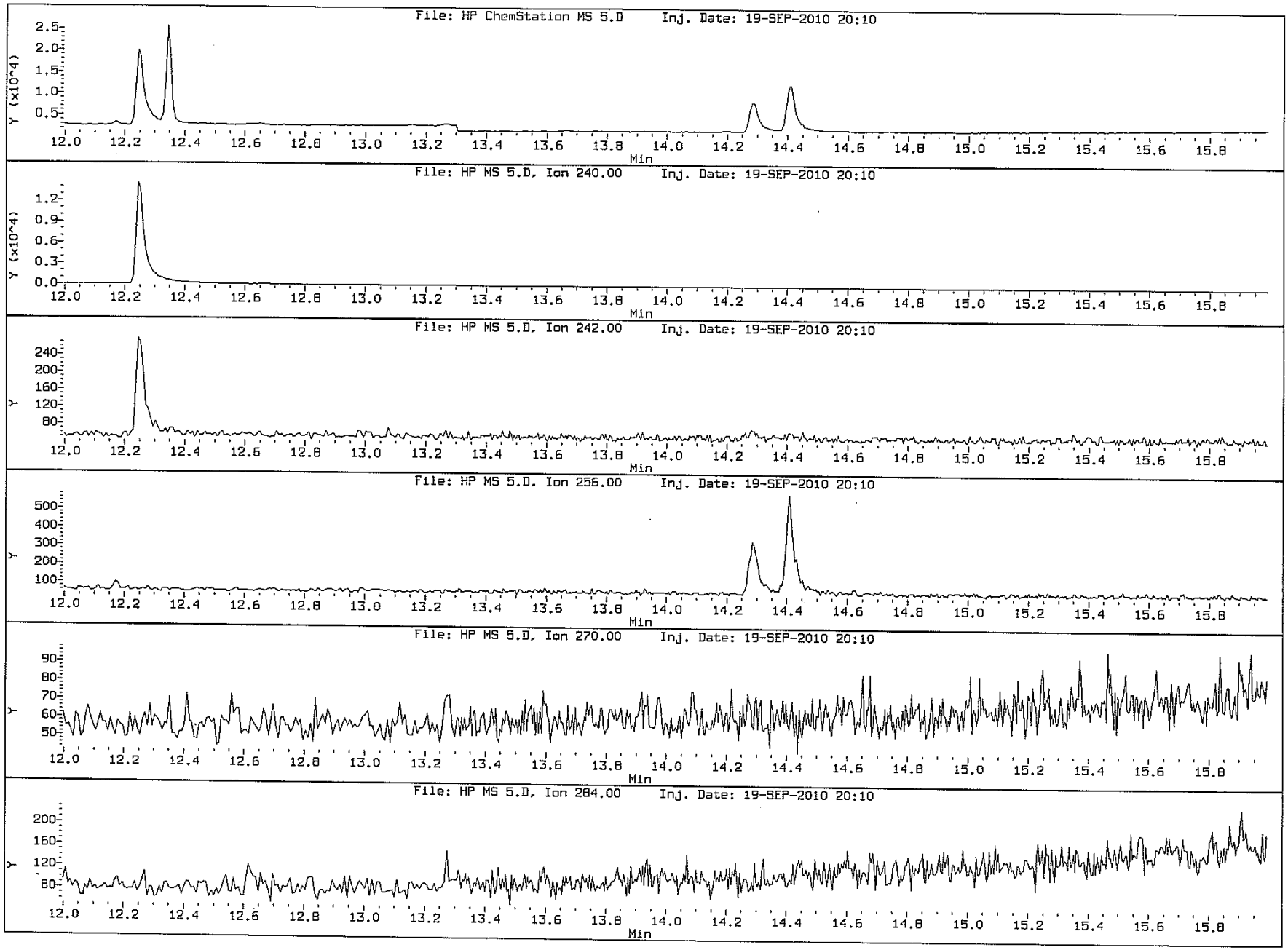
2.5
2.0
1.5
1.0
0.5
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 5.D, Ion 212.00 Inj. Date: 19-SEP-2010 20:10
Y (x10^4)
2.4
2.0
1.6
1.2
0.8
0.4
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 5.D, Ion 216.00 Inj. Date: 19-SEP-2010 20:10
Y
280
240
200
160
120
80
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 5.D, Ion 230.00 Inj. Date: 19-SEP-2010 20:10
Y
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 5.D, Ion 244.00 Inj. Date: 19-SEP-2010 20:10
Y
66
63
60
57
54
51
48
45
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min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Y (x10^4)
Min
File: HP MS 5.D, Ion 240.00 Inj. Date: 19-SEP-2010 20:10
Y (x10^4)
Min
File: HP MS 5.D, Ion 242.00 Inj. Date: 19-SEP-2010 20:10
Y
Min
File: HP MS 5.D, Ion 256.00 Inj. Date: 19-SEP-2010 20:10
Y
Min
File: HP MS 5.D, Ion 270.00 Inj. Date: 19-SEP-2010 20:10
Y
Min
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Y
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100919.b\8.D
Lab Smp Id: 1009543-02F Client Smp ID: 1009543-02F
Inj Date : 19-SEP-2010 21:24 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : 1009543-02F;1009543-02F
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100919.b\8270AP.m
Meth Date : 20-Sep-2010 17:04 SV7.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

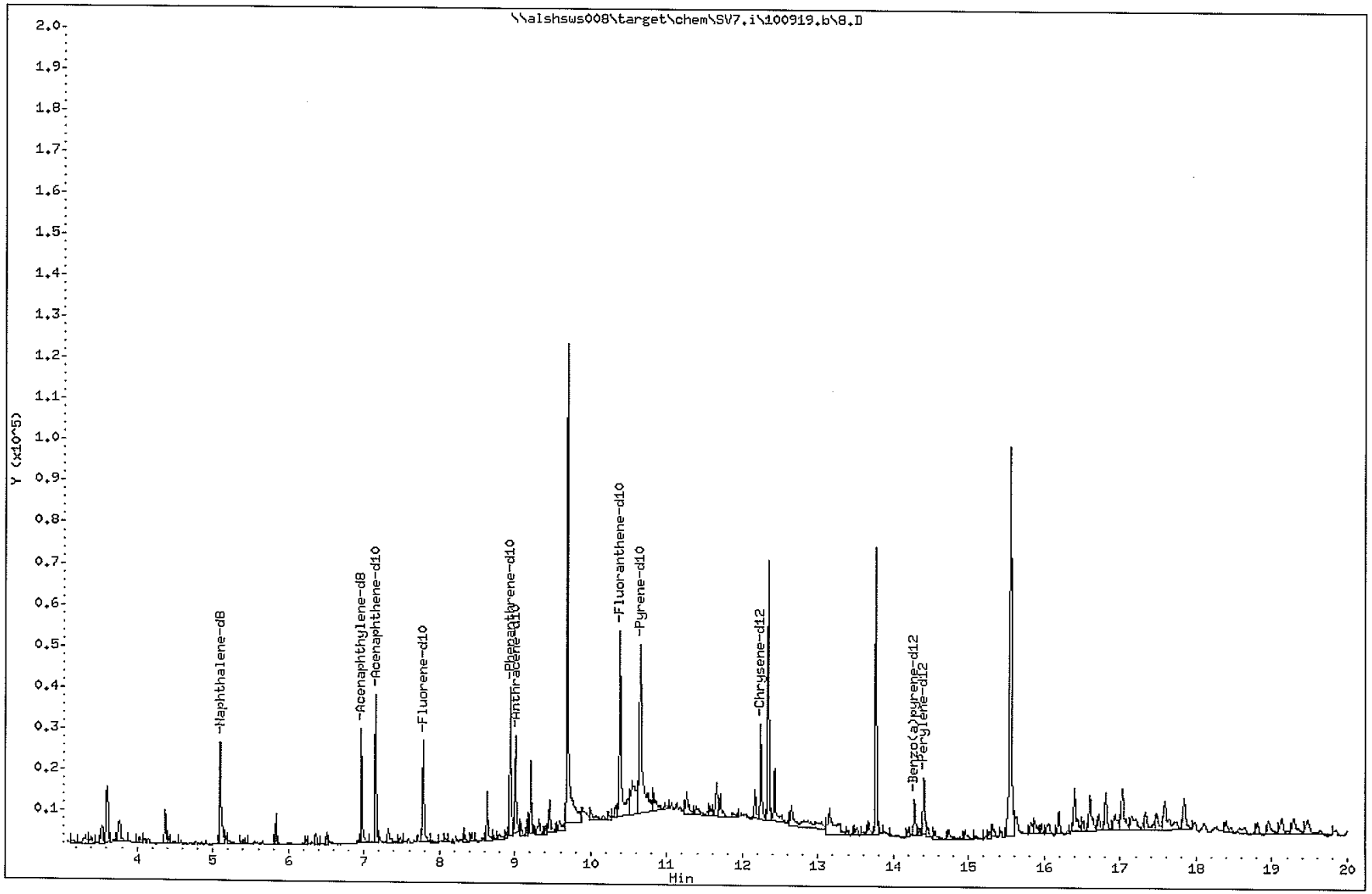
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

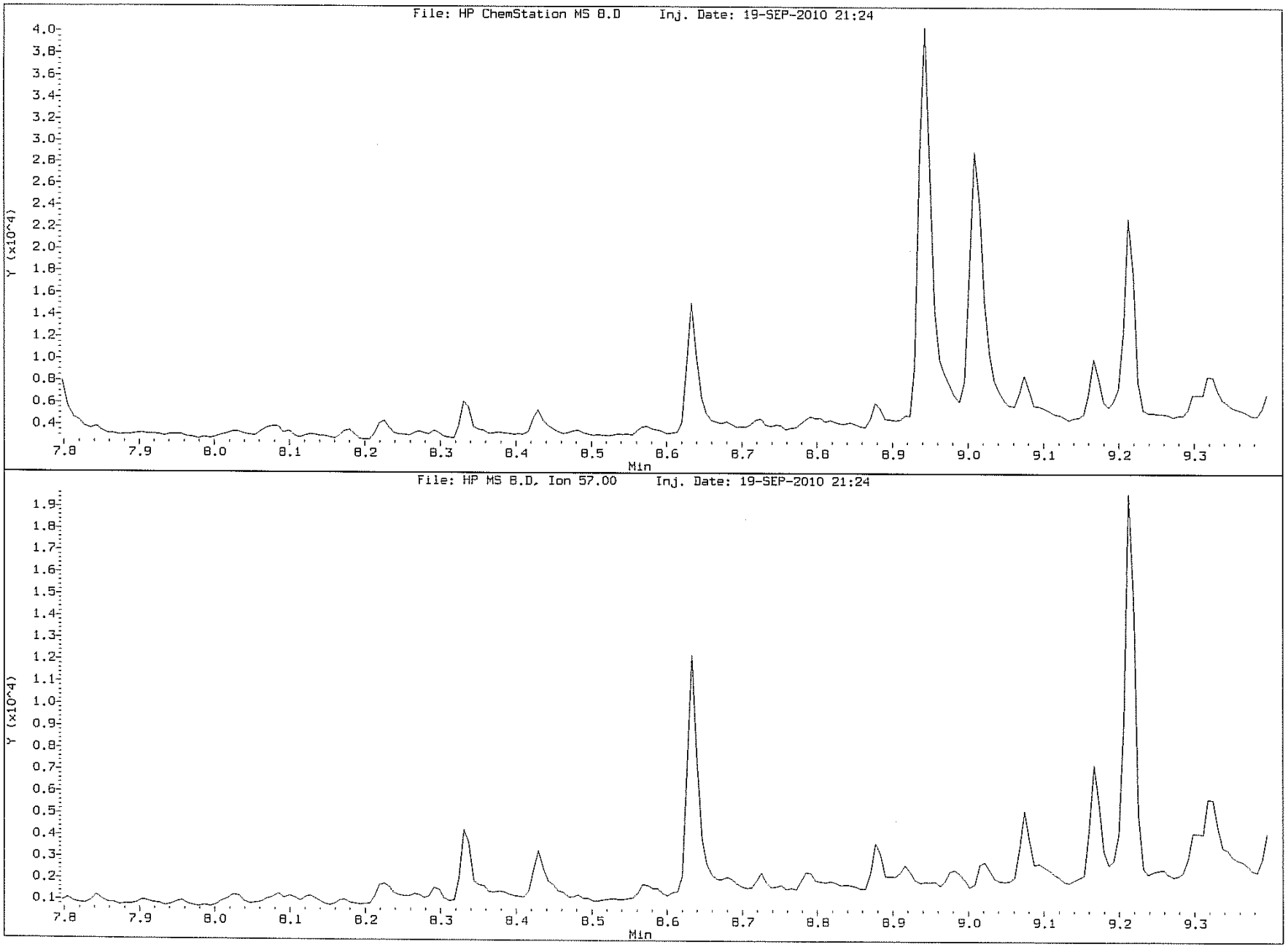
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Naphthalene-d8	136	5.095	5.102	(1.000)	41801	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	20825	0.40000	
$	12 Acenaphthylene-d8	160	6.967	6.967	(0.974)	27045	0.27952	0.2795
*	13 Fluorene-d10	176	7.782	7.790	(1.000)	26625	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.949	(1.000)	37147	0.40000	
$	27 Anthracene-d10	188	9.008	9.015	(1.007)	33455	0.28624	0.2862
*	28 Fluoranthene-d10	212	10.387	10.395	(1.000)	41583	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	32243	0.29200	0.2920
*	37 Chrysene-d12	240	12.245	12.253	(1.000)	32946	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.280	14.285	(1.166)	16262	0.28798	0.2880
*	46 Perylene-d12	264	14.402	14.407	(1.000)	25985	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100919.b\8.D
Date : 19-SEP-2010 21:24
Client ID: 1009543-02F
Sample Info: 1009543-02F;1009543-02F
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i

Operator: ALSHS.NoUser
Column diameter: 0.28

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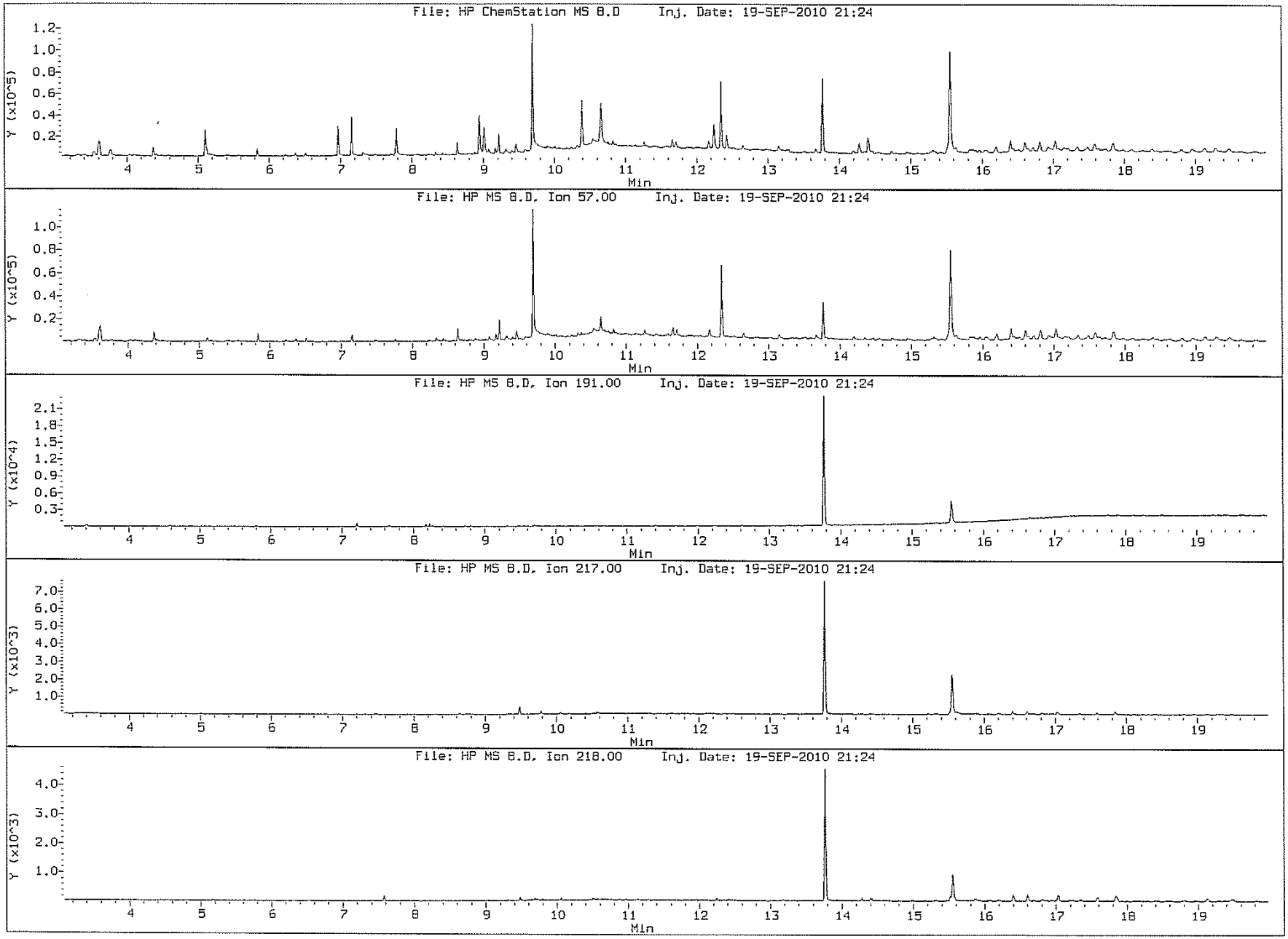
Min
File: HP MS 8.D, Ion 57.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^4)
Min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Y (x10^5)
Min
File: HP MS 8.D, Ion 57.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^5)
Min
File: HP MS 8.D, Ion 191.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^4)
Min
File: HP MS 8.D, Ion 217.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^3)
Min
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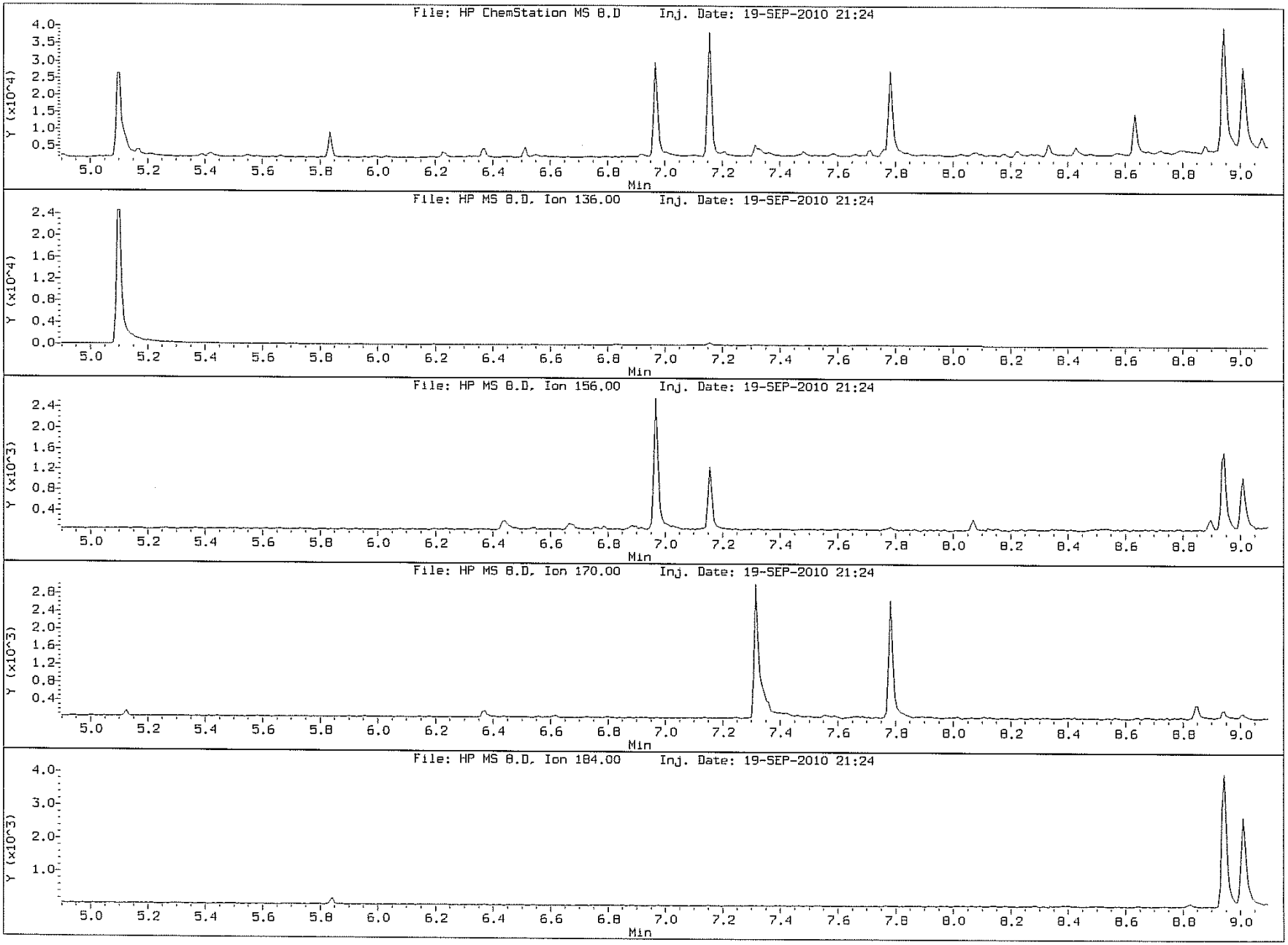
Y (x10^3)
Min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Y (x10^4)
Min
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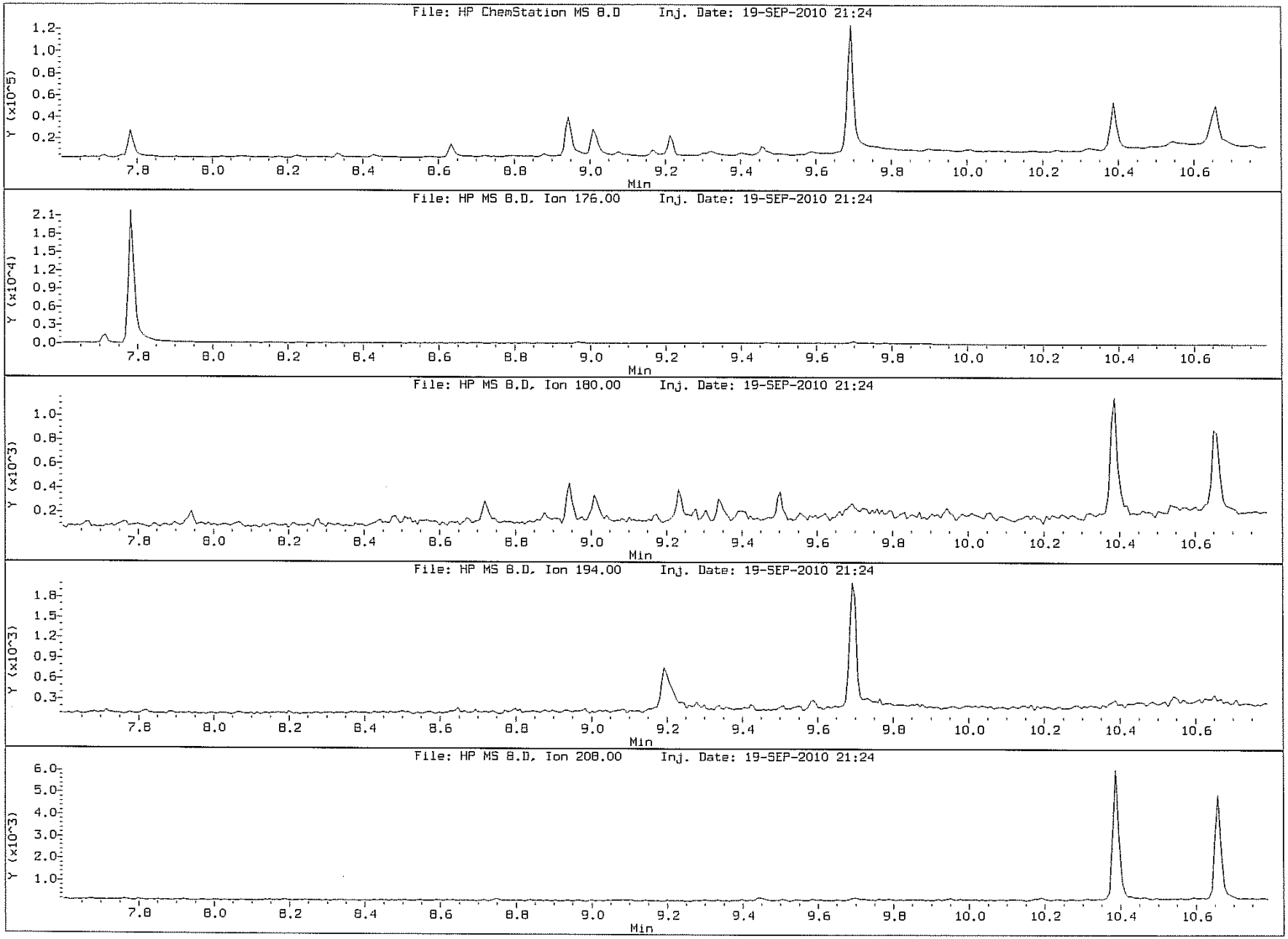
Y (x10^3)
Min
File: HP MS 8.D, Ion 170.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^3)
Min
File: HP MS 8.D, Ion 184.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^3)
Min


File: HP ChemStation MS 8.D Inj. Date: 19-SEP-2010 21:24
Y (x10^5)
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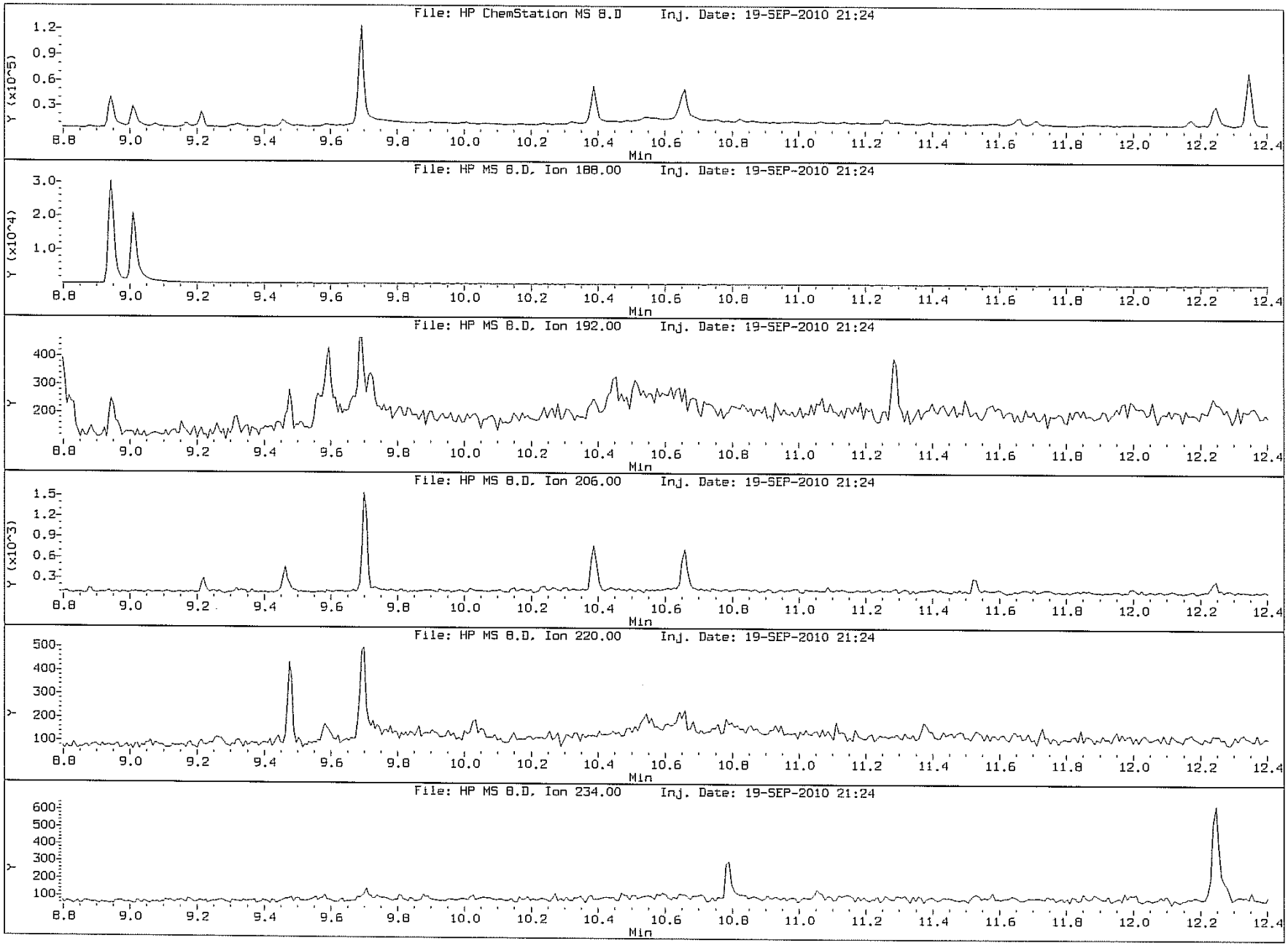
1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 8.D, Ion 176.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^4)
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 8.D, Ion 180.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^3)
1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 8.D, Ion 194.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^3)
1.8
1.5
1.2
0.9
0.6
0.3
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 8.D, Ion 208.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^3)
6.0
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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Y (x10^5)
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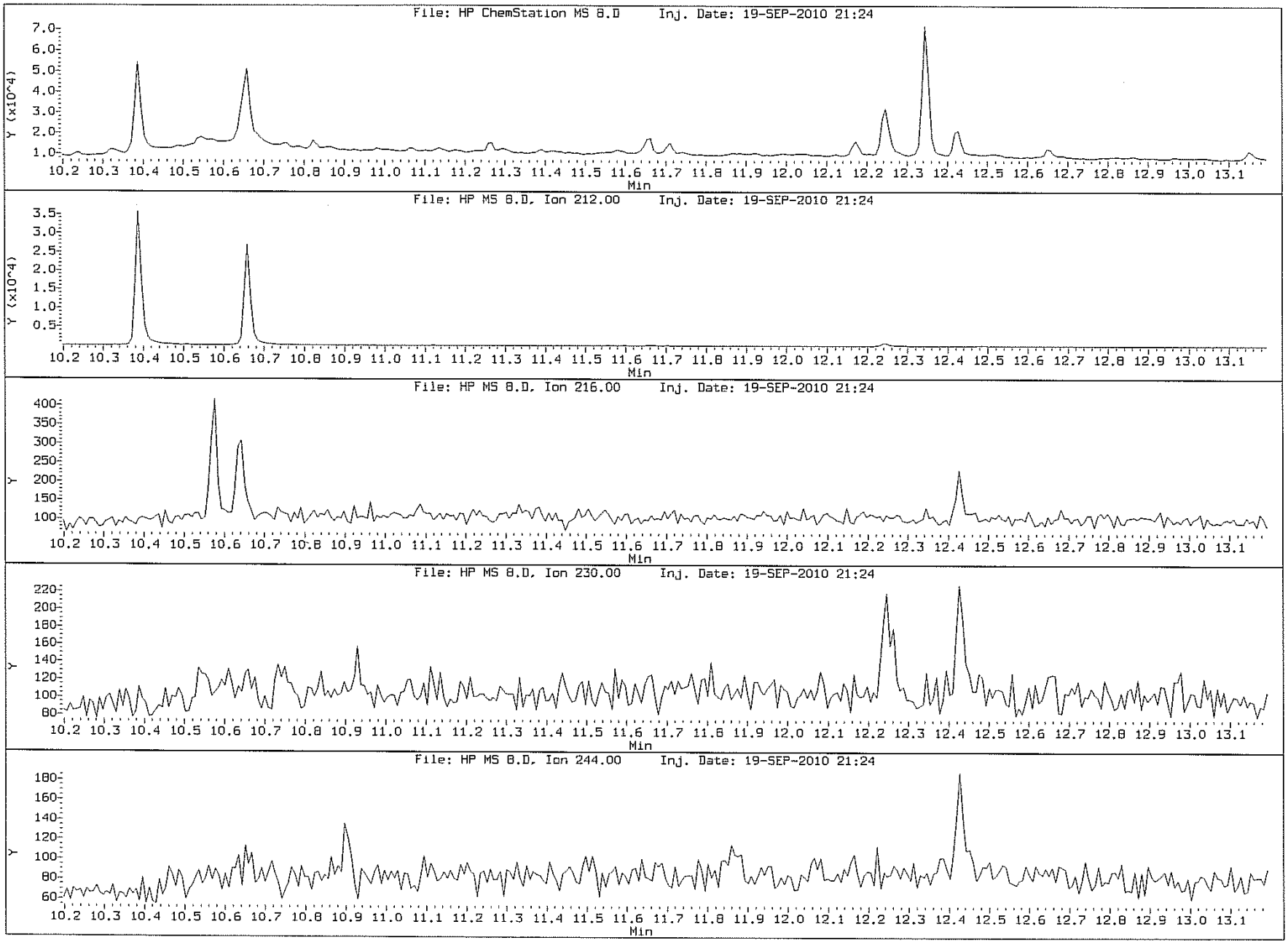
0.9
0.6
0.3
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 8.D, Ion 188.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^4)
3.0
2.0
1.0
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 8.D, Ion 192.00 Inj. Date: 19-SEP-2010 21:24
Y
400
300
200
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 8.D, Ion 206.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^3)
1.5
1.2
0.9
0.6
0.3
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 8.D, Ion 220.00 Inj. Date: 19-SEP-2010 21:24
Y
500
400
300
200
100
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 8.D, Ion 234.00 Inj. Date: 19-SEP-2010 21:24
Y
600
500
400
300
200
100
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min


File: HP ChemStation MS 8.D Inj. Date: 19-SEP-2010 21:24
Y (x10^4)
Min
File: HP MS 8.D, Ion 212.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^4)
Min
File: HP MS 8.D, Ion 216.00 Inj. Date: 19-SEP-2010 21:24
Y
Min
File: HP MS 8.D, Ion 230.00 Inj. Date: 19-SEP-2010 21:24
Y
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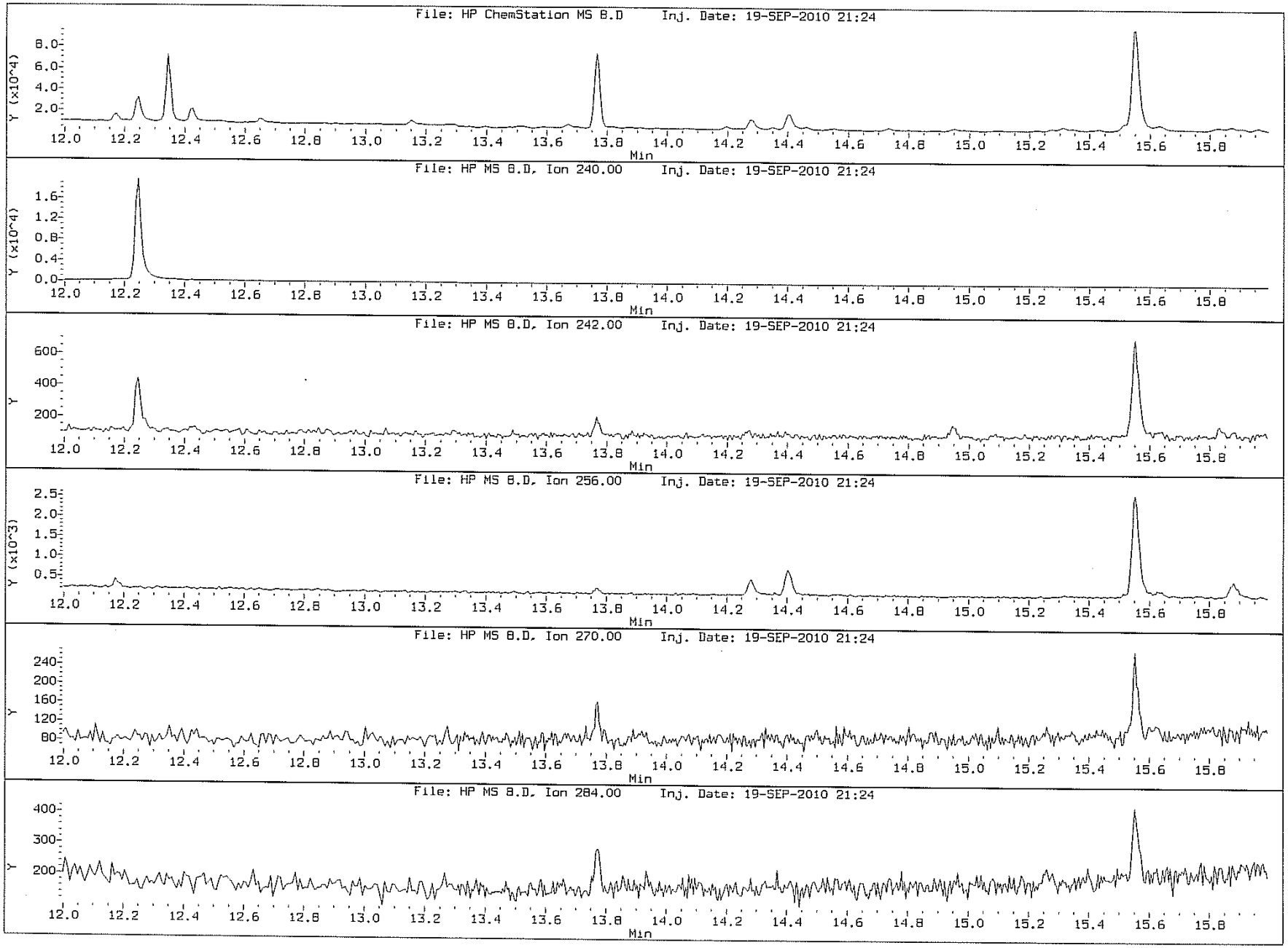
Y
Min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Y (x10^4)
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4.0
2.0
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 8.D, Ion 240.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^4)
1.6
1.2
0.8
0.4
0.0
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 8.D, Ion 242.00 Inj. Date: 19-SEP-2010 21:24
Y
600
400
200
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 8.D, Ion 256.00 Inj. Date: 19-SEP-2010 21:24
Y (x10^3)
2.5
2.0
1.5
1.0
0.5
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 8.D, Ion 270.00 Inj. Date: 19-SEP-2010 21:24
Y
240
200
160
120
80
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 8.D, Ion 284.00 Inj. Date: 19-SEP-2010 21:24
Y
400
300
200
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100919.b\9.D
Lab Smp Id: 1009543-10F Client Smp ID: 1009543-10F
Inj Date : 19-SEP-2010 21:48 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : 1009543-10F;1009543-10F
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100919.b\8270AP.m
Meth Date : 20-Sep-2010 17:04 SV7.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

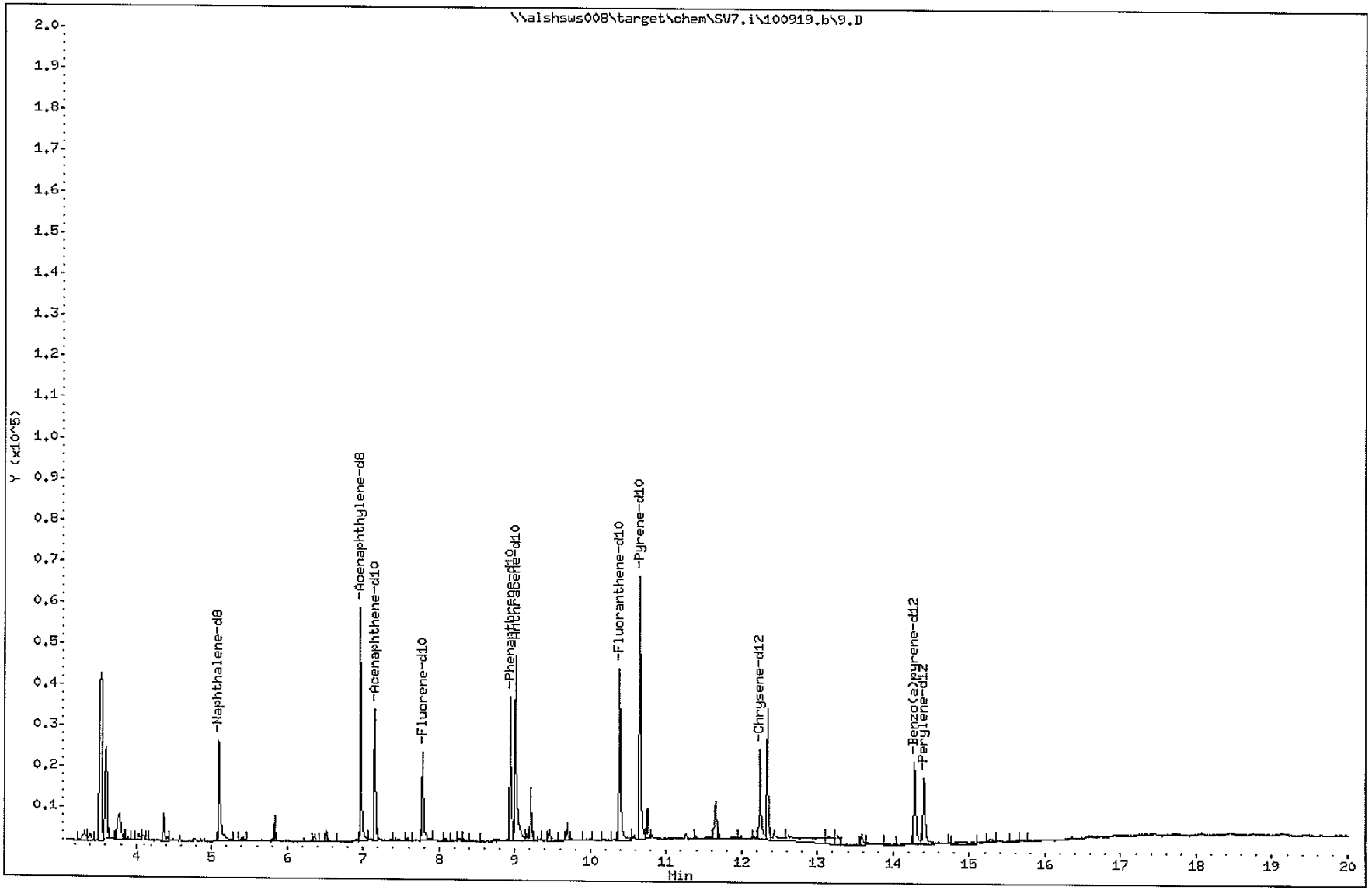
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

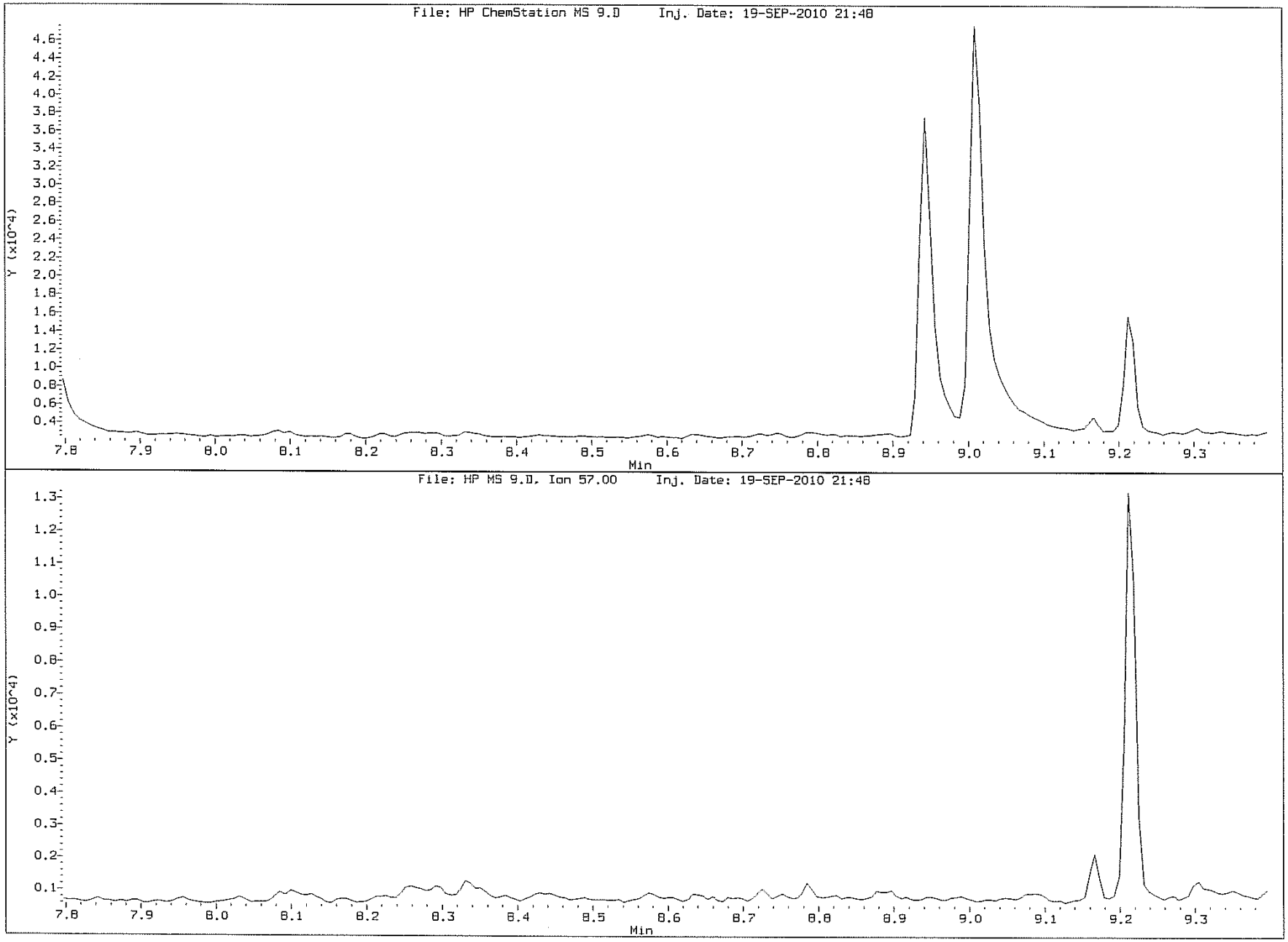
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 Naphthalene-d8	136	5.094	5.102	(1.000)	41427	0.40000	
* 9 Acenaphthene-d10	162	7.155	7.155	(1.000)	21723	0.40000	
$ 12 Acenaphthylene-d8	160	6.967	6.967	(0.974)	57758	0.57227	0.5723
* 13 Fluorene-d10	176	7.782	7.790	(1.000)	27358	0.40000	
* 18 Phenanthrene-d10	188	8.942	8.949	(1.000)	37665	0.40000	
$ 27 Anthracene-d10	188	9.008	9.015	(1.007)	64655	0.54557	0.5456
* 28 Fluoranthene-d10	212	10.386	10.395	(1.000)	43691	0.40000	
$ 36 Pyrene-d10	212	10.658	10.658	(1.026)	66751	0.57535	0.5754
* 37 Chrysene-d12	240	12.245	12.253	(1.000)	34811	0.40000	
$ 45 Benzo(a)pyrene-d12	264	14.280	14.285	(1.166)	35121	0.58863	0.5886
* 46 Perylene-d12	264	14.402	14.407	(1.000)	27585	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100919.b\9.D
Date : 19-SEP-2010 21:48
Client ID: 1009543-10F
Sample Info: 1009543-10F;1009543-10F
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28

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4.2
4.0
3.8
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3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
File: HP MS 9.D, Ion 57.00 Inj. Date: 19-SEP-2010 21:48
Y (x10^4)
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
7.8
7.9
8.0
8.1
8.2
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9.0
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9.2
9.3
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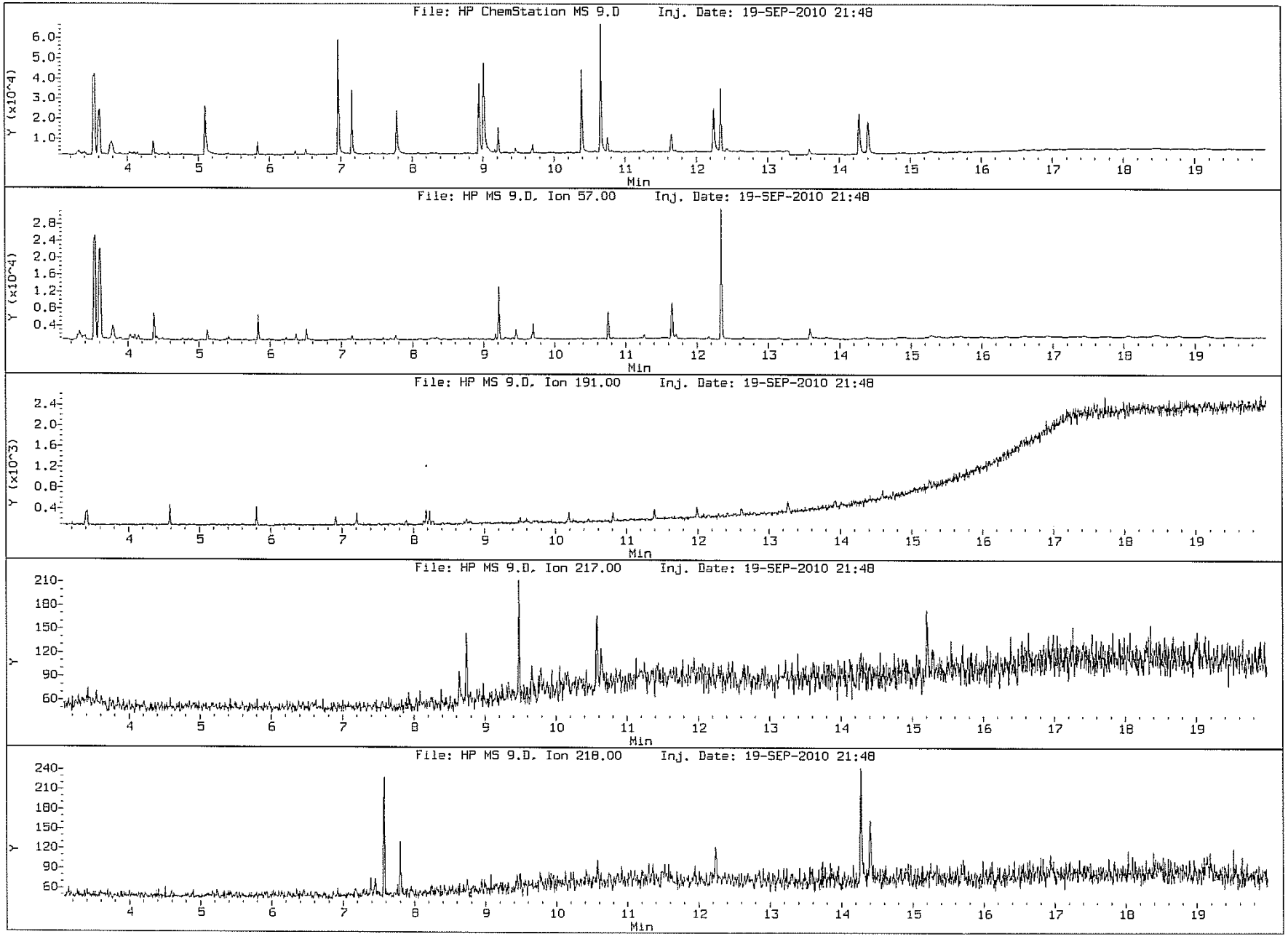
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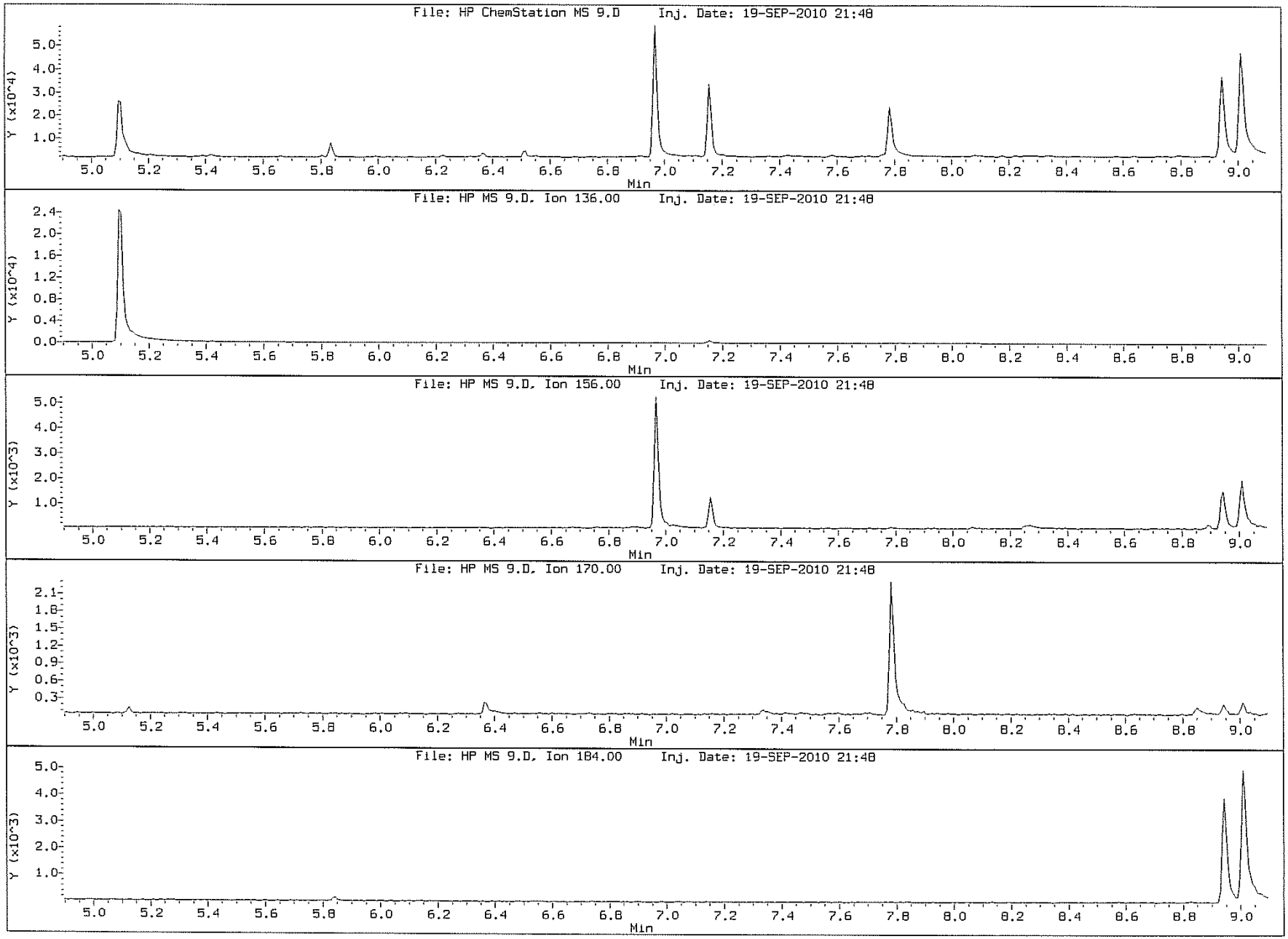
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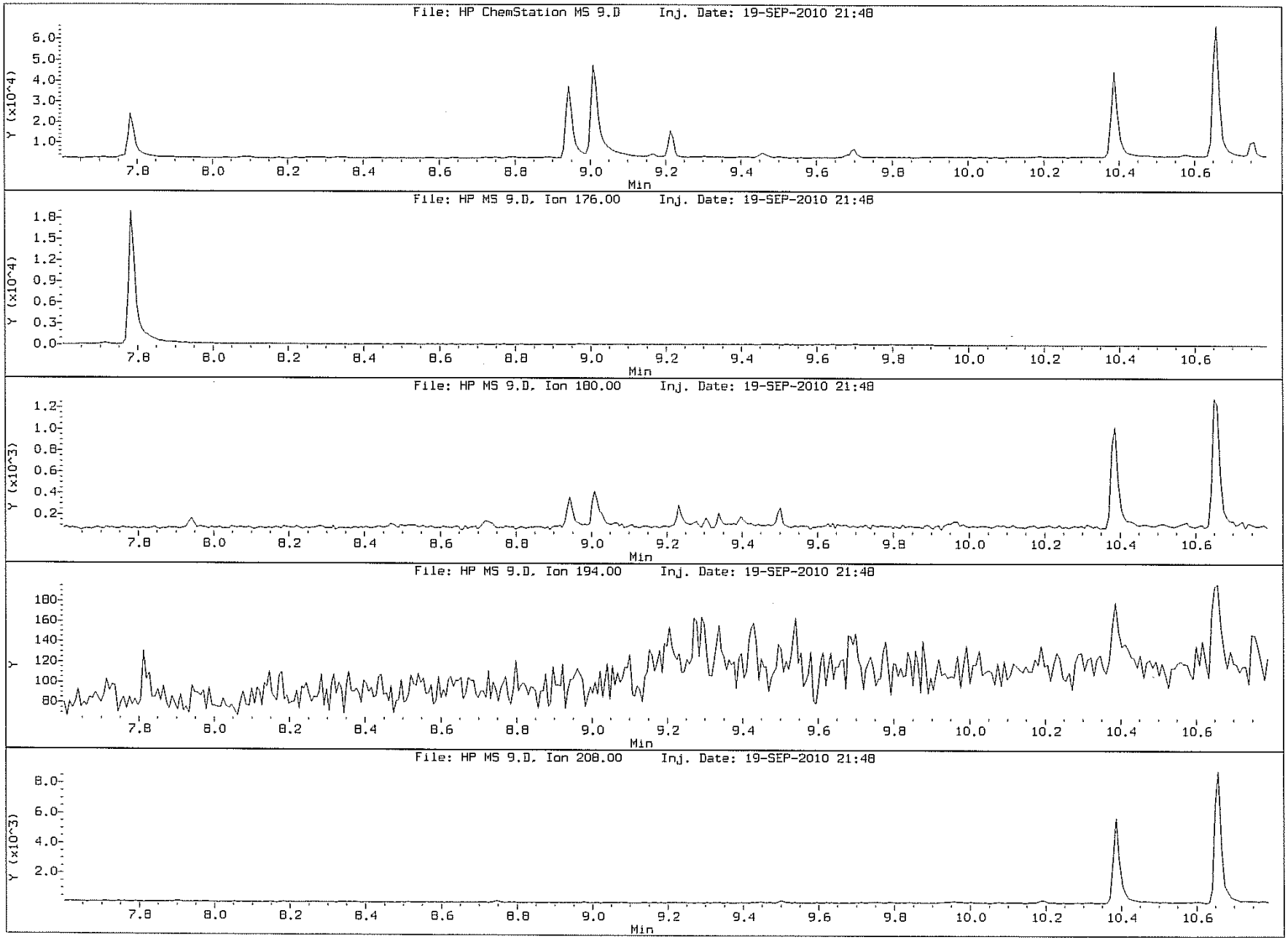
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2.0
1.0
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Min
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1.5
1.2
0.9
0.6
0.3
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
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1.0
0.8
0.6
0.4
0.2
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 9.D, Ion 194.00 Inj. Date: 19-SEP-2010 21:48
Y
180
160
140
120
100
80
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 9.D, Ion 208.00 Inj. Date: 19-SEP-2010 21:48
Y (x10^3)
8.0
6.0
4.0
2.0
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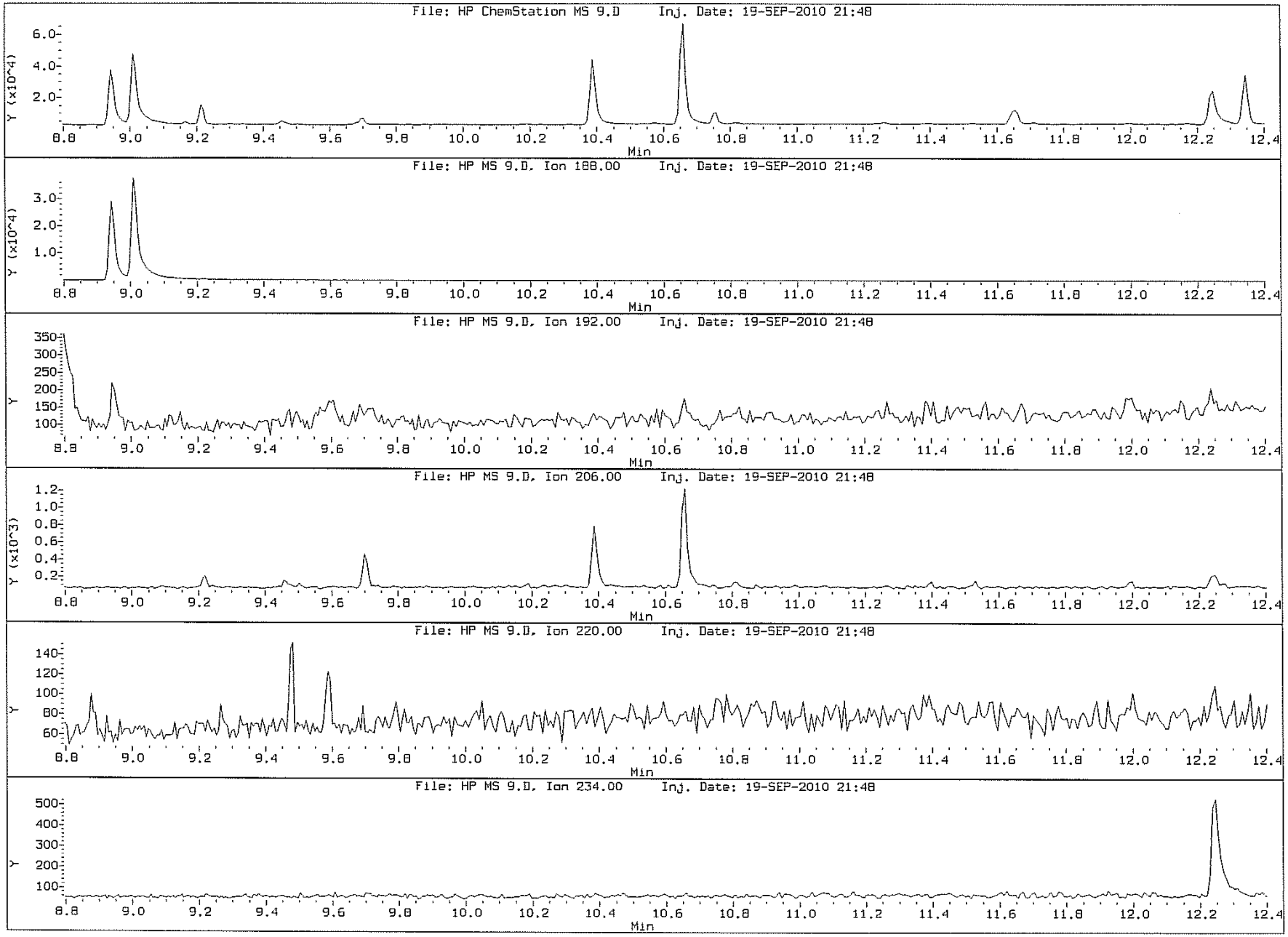
Min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File: HP MS 9.D, Ion 188.00 Inj. Date: 19-SEP-2010 21:48
Y (x10^4)
Min
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Y
Min
File: HP MS 9.D, Ion 206.00 Inj. Date: 19-SEP-2010 21:48
Y (x10^3)
Min
File: HP MS 9.D, Ion 220.00 Inj. Date: 19-SEP-2010 21:48
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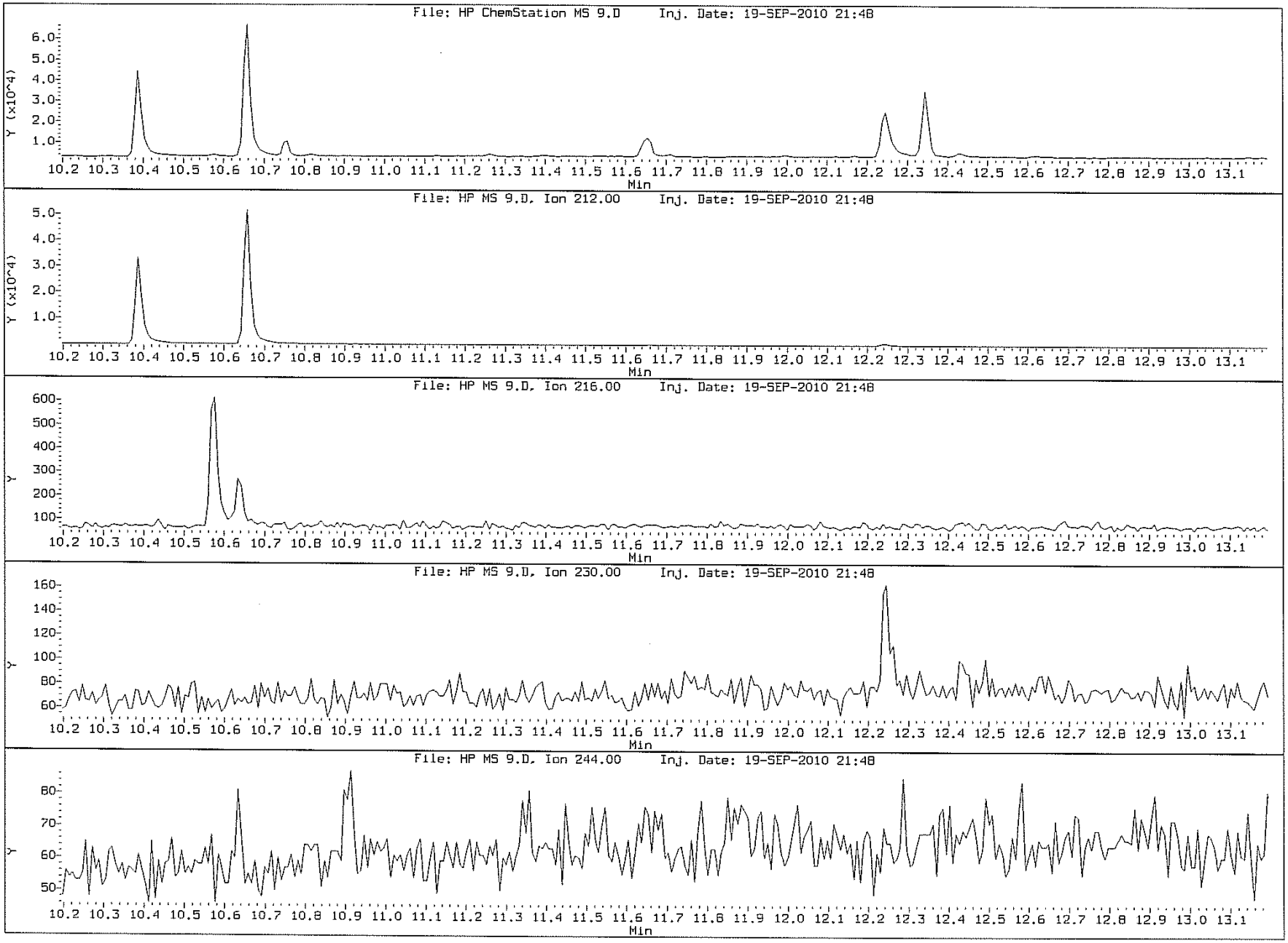
Y
Min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Y (x10^4)
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5.0
4.0
3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
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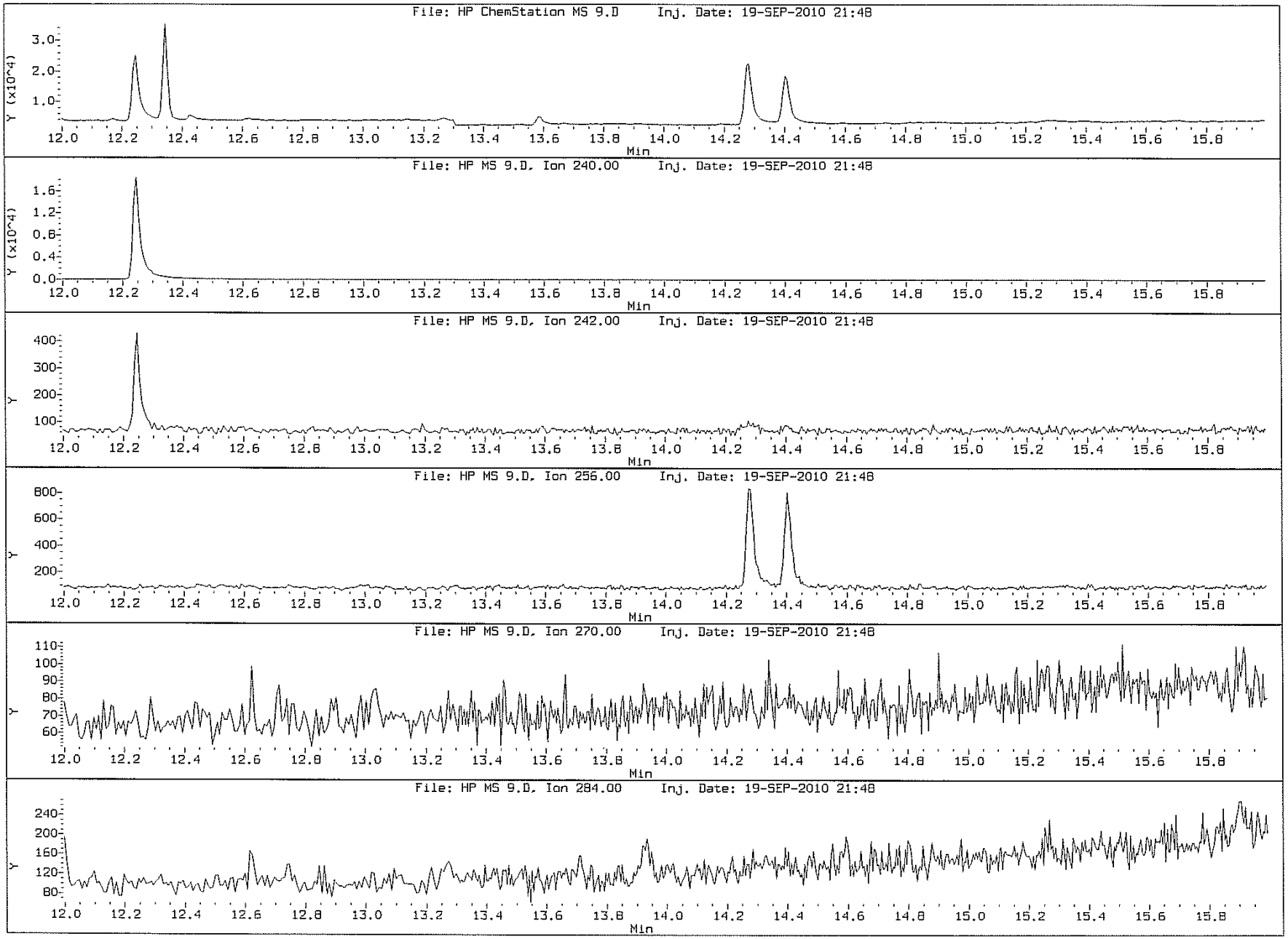
Y (x10^4)
5.0
4.0
3.0
2.0
1.0
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 9.D, Ion 216.00 Inj. Date: 19-SEP-2010 21:48
Y
600
500
400
300
200
100
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 9.D, Ion 230.00 Inj. Date: 19-SEP-2010 21:48
Y
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 9.D, Ion 244.00 Inj. Date: 19-SEP-2010 21:48
Y
80
70
60
50
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min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Y
Min
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Y
Min
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Y
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Y
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100919.b\10.D
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Inj Date : 19-SEP-2010 22:13 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : 1009543-11F;1009543-11F
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100919.b\8270AP.m
Meth Date : 20-Sep-2010 17:04 SV7.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

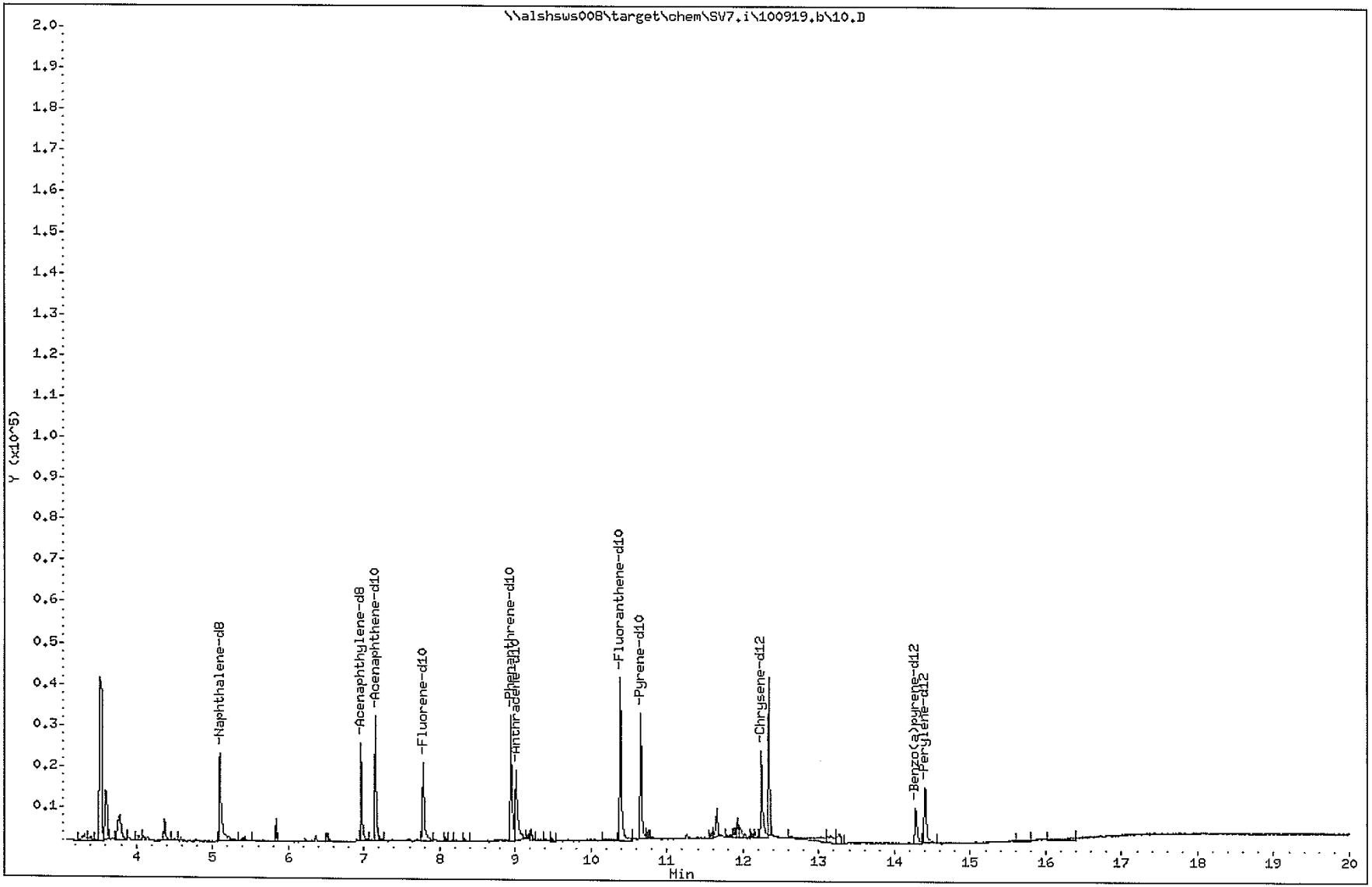
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

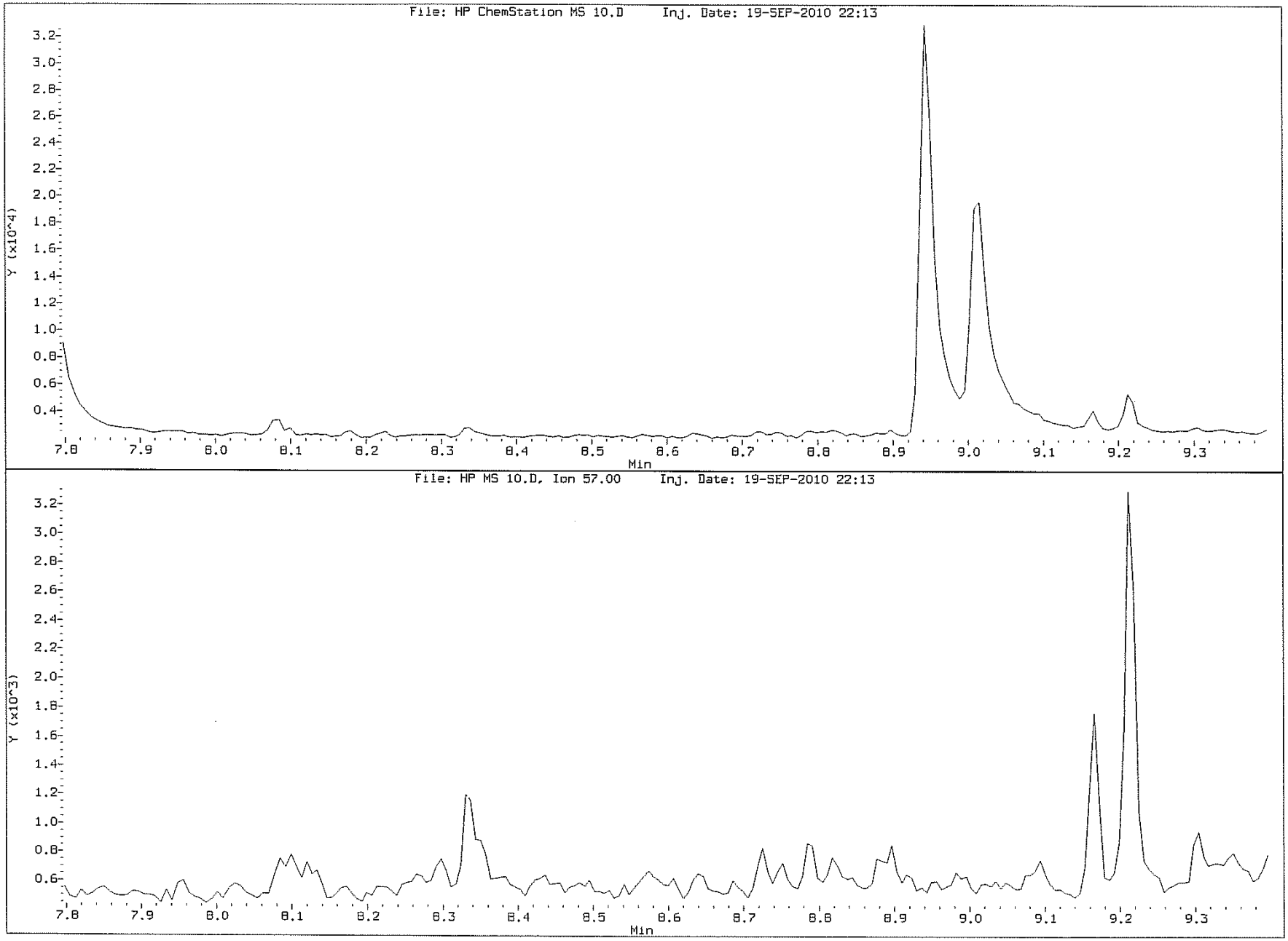
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	42201	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	21764	0.40000	
$	12 Acenaphthylene-d8	160	6.967	6.967	(0.974)	27345	0.27043	0.2704
*	13 Fluorene-d10	176	7.782	7.790	(1.000)	27526	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.949	(1.000)	35965	0.40000	
$	27 Anthracene-d10	188	9.014	9.015	(1.008)	33910	0.29966	0.2997
*	28 Fluoranthene-d10	212	10.386	10.395	(1.000)	43584	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	32959	0.28478	0.2848
*	37 Chrysene-d12	240	12.245	12.253	(1.000)	35281	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.280	14.285	(1.166)	16339	0.27019	0.2702
*	46 Perylene-d12	264	14.402	14.407	(1.000)	27747	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100919.b\10.D
Date : 19-SEP-2010 22:13
Client ID: 1009543-11F
Sample Info: 1009543-11F;1009543-11F
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28

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Y (x10^4)
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
File: HP MS 10.D, Ion 57.00 Inj. Date: 19-SEP-2010 22:13
Y (x10^3)
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3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
7.8
7.9
8.0
8.1
8.2
8.3
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8.7
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8.9
9.0
9.1
9.2
9.3
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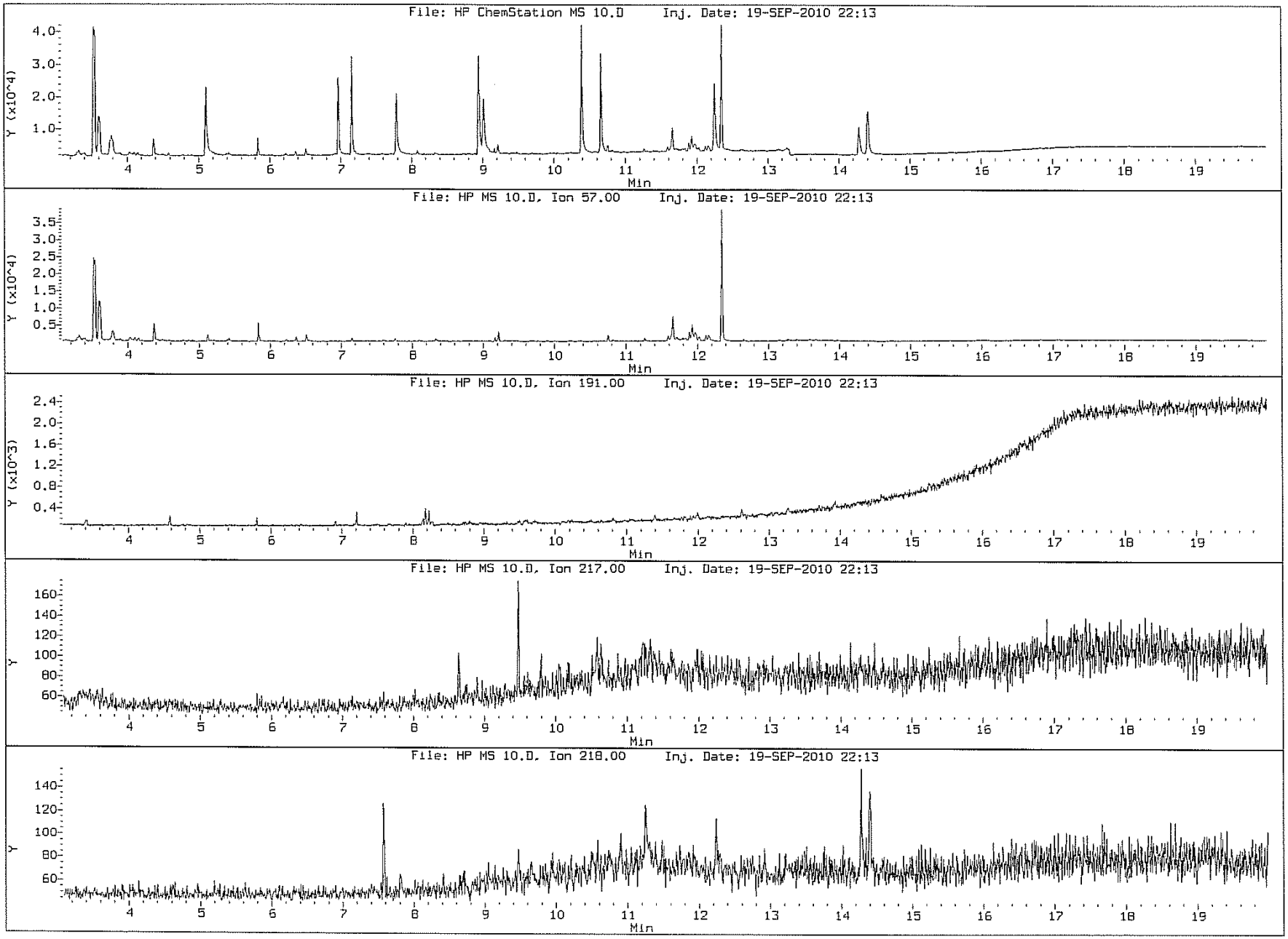
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Y (x10^4)
Min
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Y (x10^4)
Min
File: HP MS 10.D, Ion 191.00 Inj. Date: 19-SEP-2010 22:13
Y (x10^3)
Min
File: HP MS 10.D, Ion 217.00 Inj. Date: 19-SEP-2010 22:13
Y
Min
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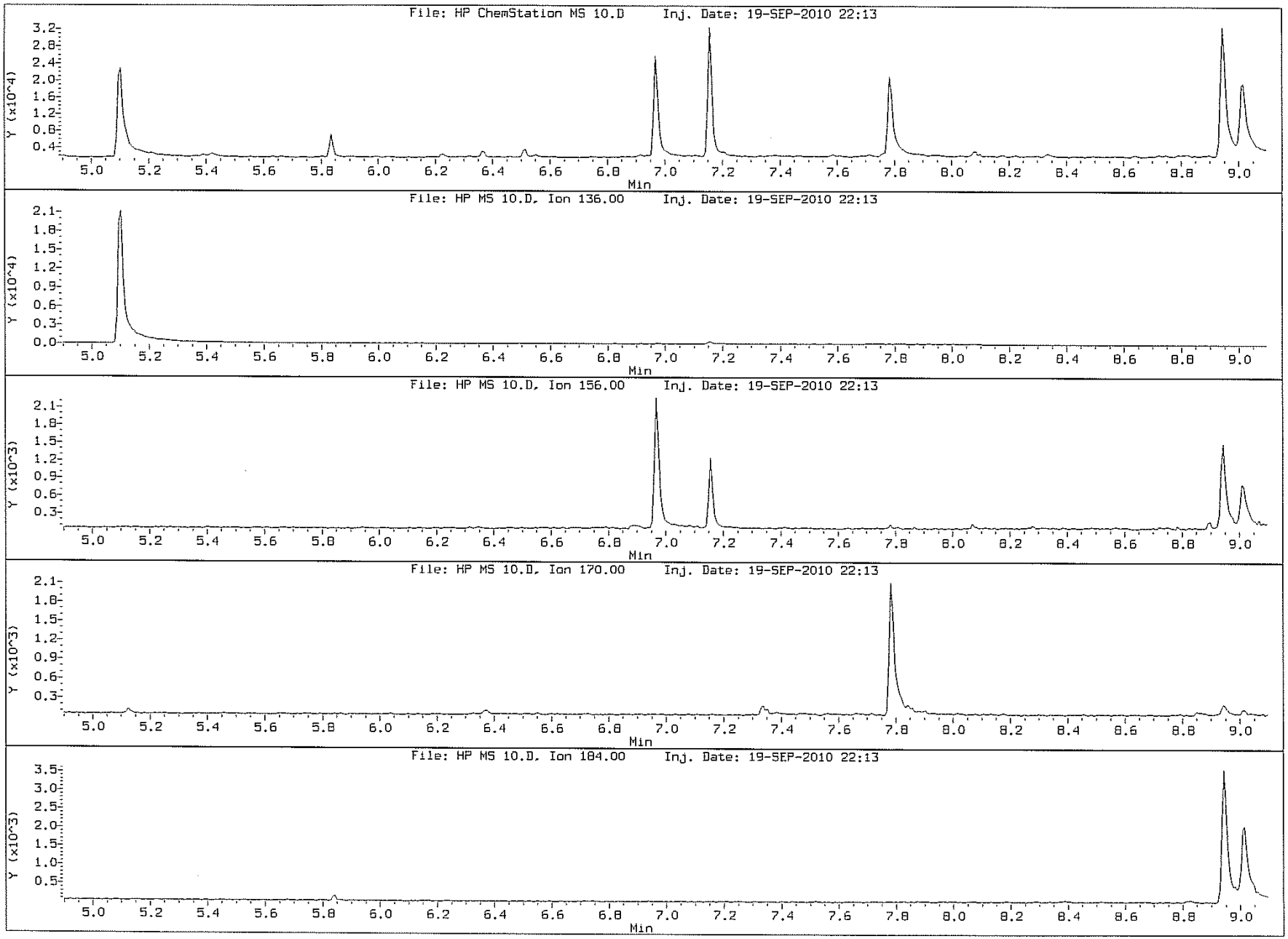
Y
Min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Y (x10^4)
Min
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Y (x10^4)
Min
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Y (x10^3)
Min
File: HP MS 10.D, Ion 170.00 Inj. Date: 19-SEP-2010 22:13
Y (x10^3)
Min
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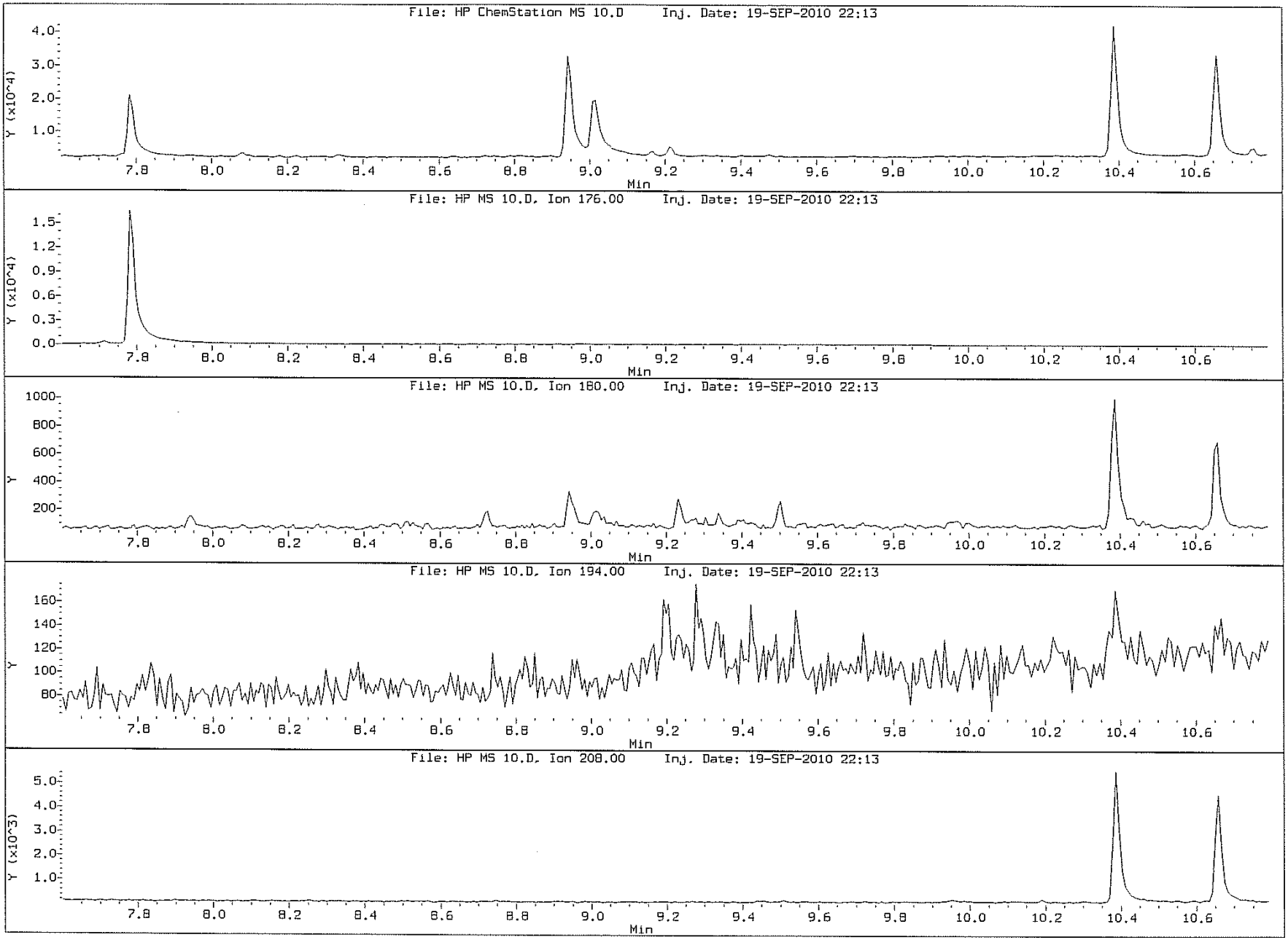
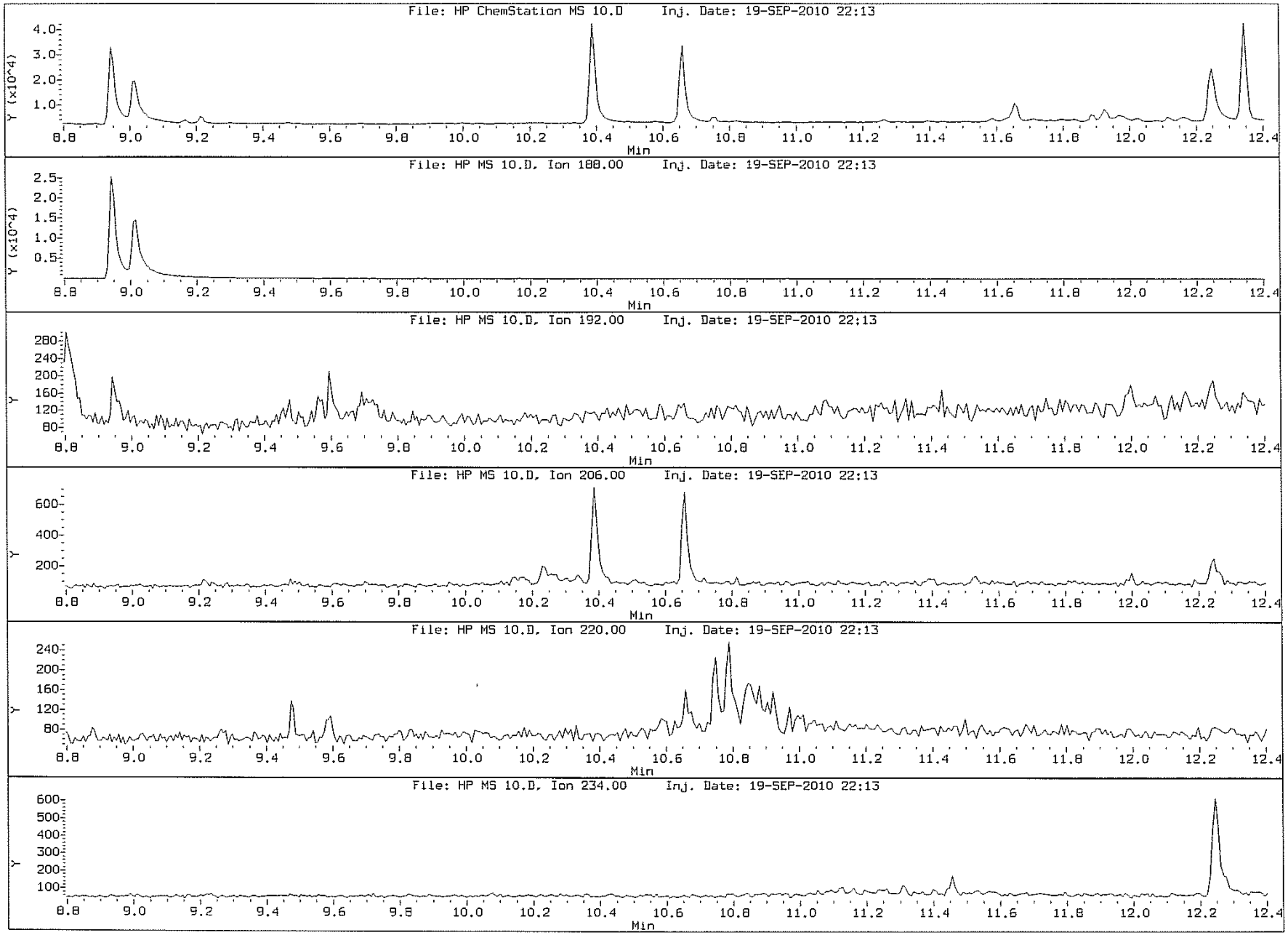
Y (x10^3)
Min


File: HP ChemStation MS 10.D Inj. Date: 19-SEP-2010 22:13
Y (x10^4)
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 10.D, Ion 176.00 Inj. Date: 19-SEP-2010 22:13
Y (x10^4)
1.5
1.2
0.9
0.6
0.3
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 10.D, Ion 180.00 Inj. Date: 19-SEP-2010 22:13
Y
1000
800
600
400
200
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 10.D, Ion 194.00 Inj. Date: 19-SEP-2010 22:13
Y
160
140
120
100
80
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 10.D, Ion 208.00 Inj. Date: 19-SEP-2010 22:13
Y (x10^3)
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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Y (x10^4)
Min
File: HP MS 10.D, Ion 188.00 Inj. Date: 19-SEP-2010 22:13
Y (x10^4)
Min
File: HP MS 10.D, Ion 192.00 Inj. Date: 19-SEP-2010 22:13
Y
Min
File: HP MS 10.D, Ion 206.00 Inj. Date: 19-SEP-2010 22:13
Y
Min
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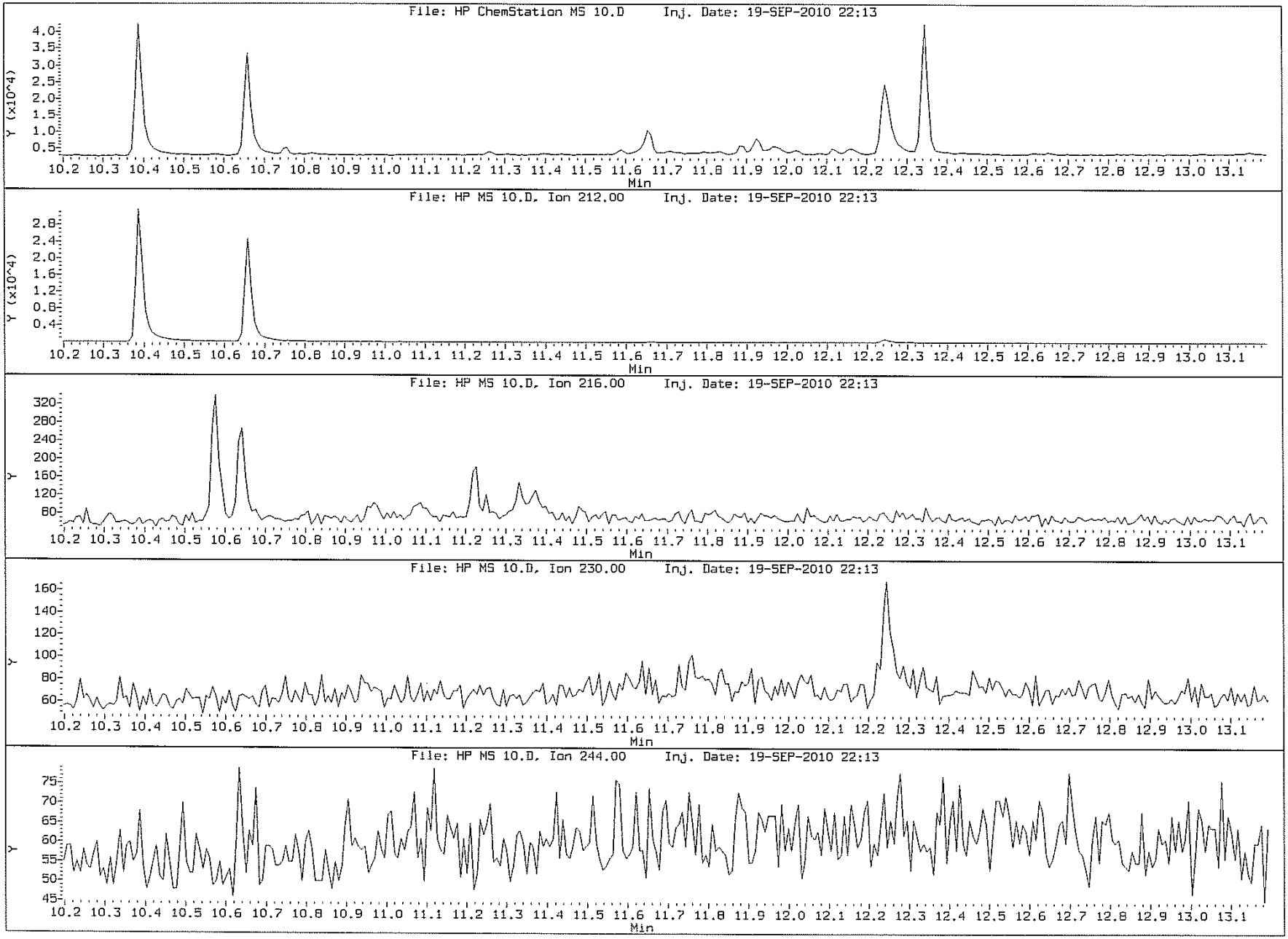
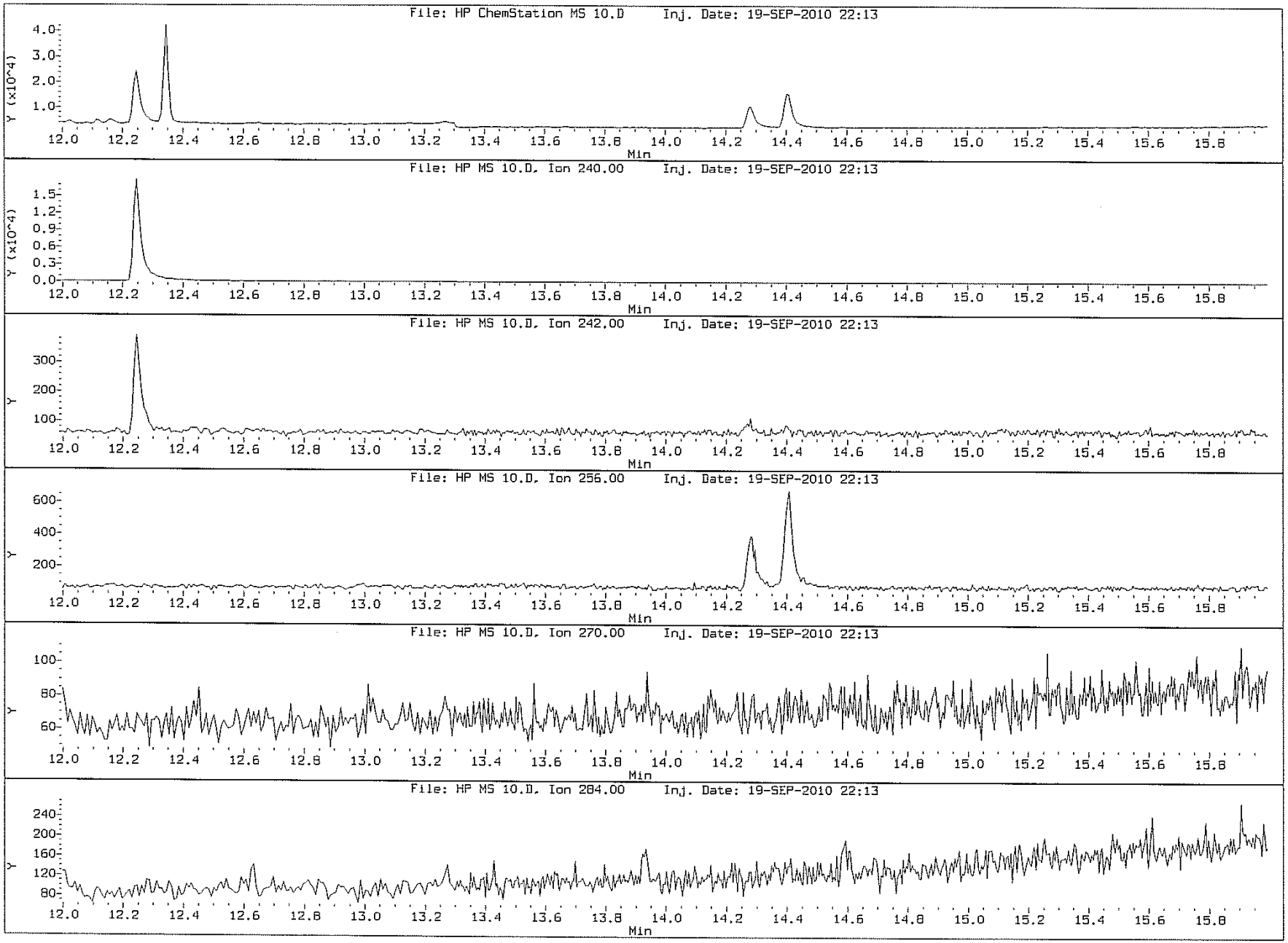
Y
Min


File: HP ChemStation MS 10.D Inj. Date: 19-SEP-2010 22:13
Y (x10^4)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 10.D, Ion 212.00 Inj. Date: 19-SEP-2010 22:13
Y (x10^4)
2.8
2.4
2.0
1.6
1.2
0.8
0.4
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 10.D, Ion 216.00 Inj. Date: 19-SEP-2010 22:13
Y
320
280
240
200
160
120
80
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 10.D, Ion 230.00 Inj. Date: 19-SEP-2010 22:13
Y
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 10.D, Ion 244.00 Inj. Date: 19-SEP-2010 22:13
Y
75
70
65
60
55
50
45
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min


File: HP ChemStation MS 10.D Inj. Date: 19-SEP-2010 22:13
Y (x10^4)
4.0
3.0
2.0
1.0
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 10.D, Ion 240.00 Inj. Date: 19-SEP-2010 22:13
Y (x10^4)
1.5
1.2
0.9
0.6
0.3
0.0
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 10.D, Ion 242.00 Inj. Date: 19-SEP-2010 22:13
Y
300
200
100
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 10.D, Ion 256.00 Inj. Date: 19-SEP-2010 22:13
Y
600
400
200
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 10.D, Ion 270.00 Inj. Date: 19-SEP-2010 22:13
Y
100
80
60
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 10.D, Ion 284.00 Inj. Date: 19-SEP-2010 22:13
Y
240
200
160
120
80
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

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Comment :
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Meth Date : 20-Sep-2010 17:04 SV7.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

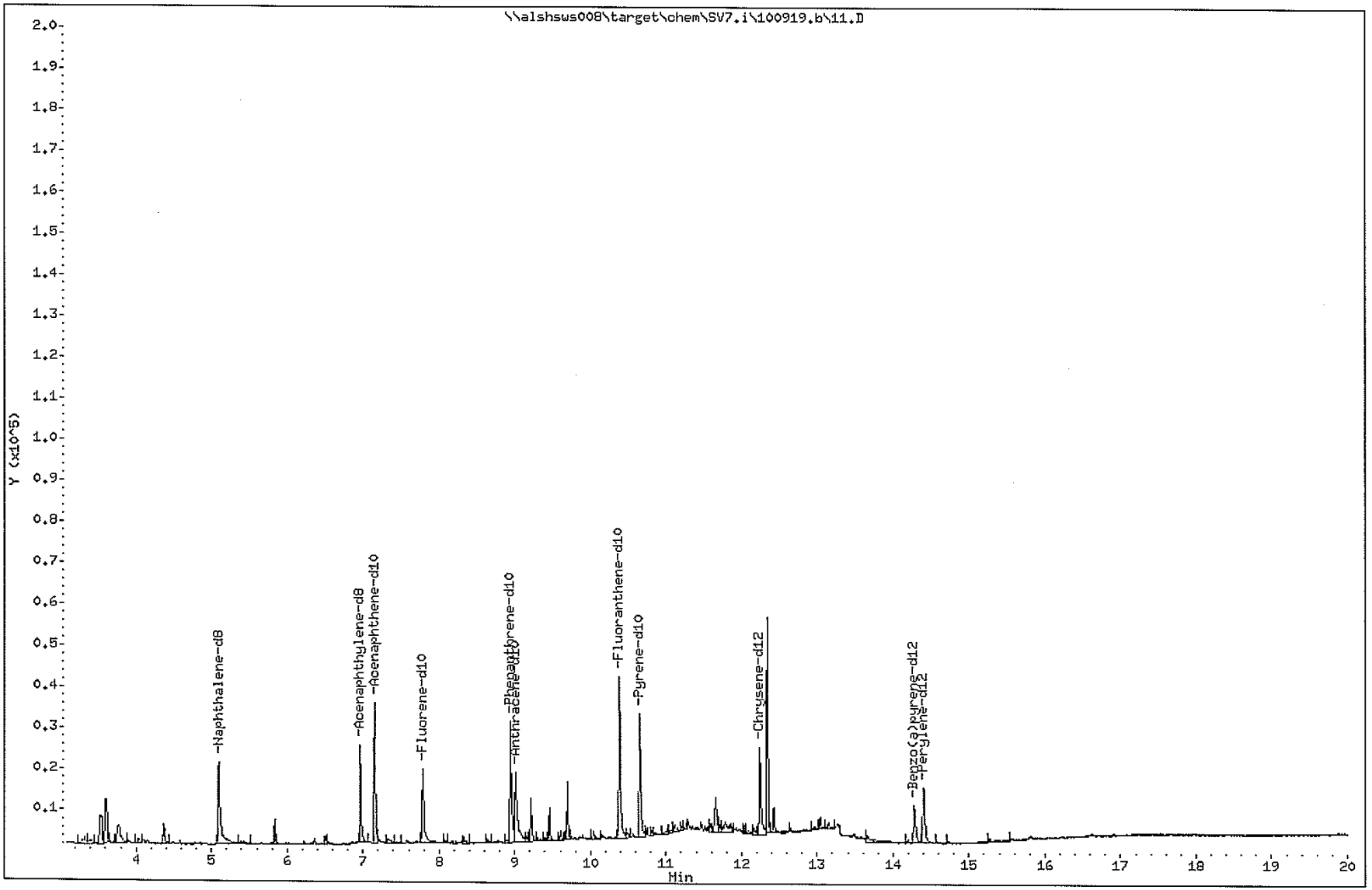
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

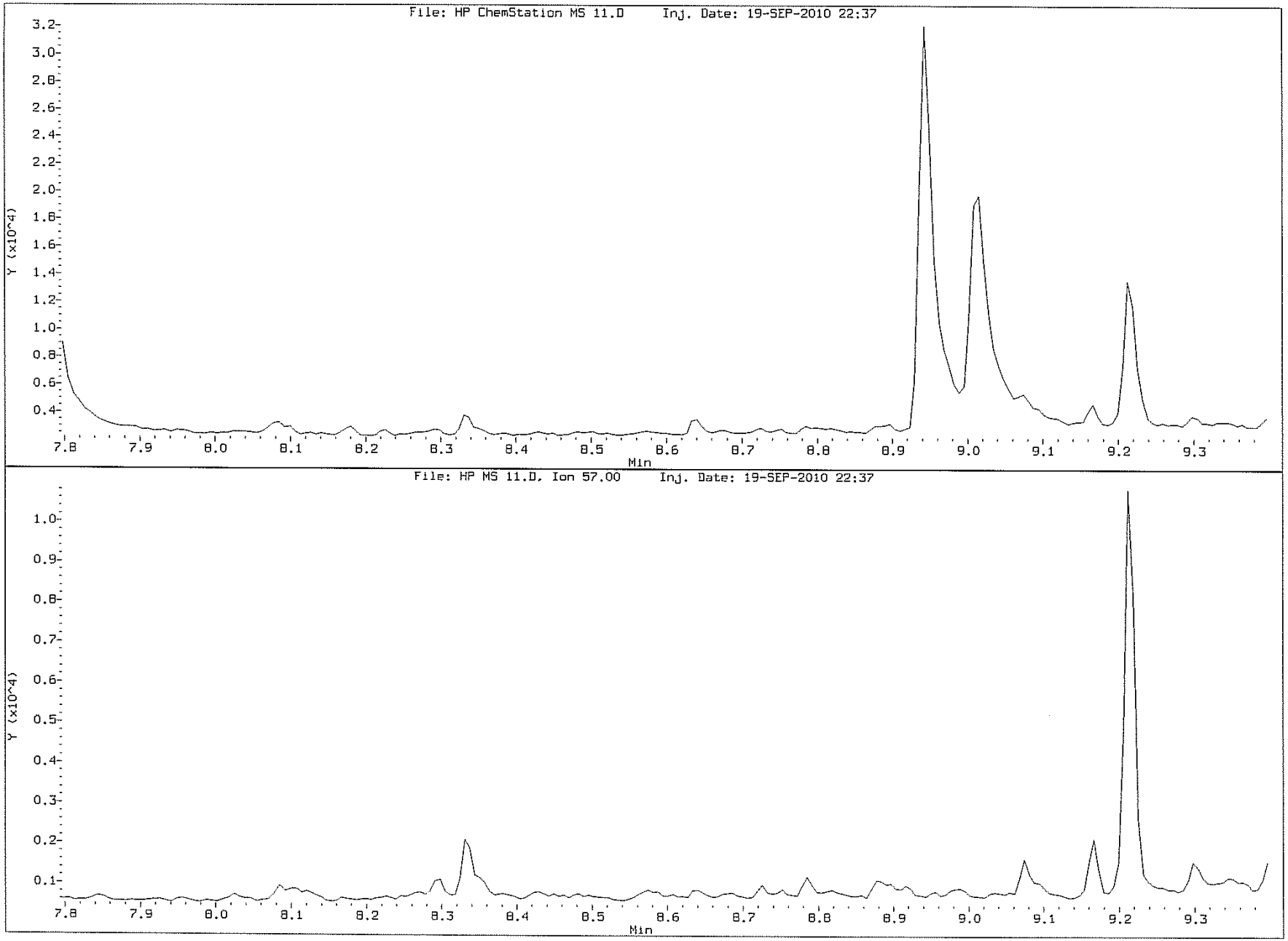
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	38753	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	21549	0.40000	
$	12 Acenaphthylene-d8	160	6.967	6.967	(0.974)	27946	0.27913	0.2791
*	13 Fluorene-d10	176	7.782	7.790	(1.000)	27032	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.949	(1.000)	35291	0.40000	
$	27 Anthracene-d10	188	9.015	9.015	(1.008)	34204	0.30804	0.3080
*	28 Fluoranthene-d10	212	10.387	10.395	(1.000)	41848	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	31658	0.28489	0.2849
*	37 Chrysene-d12	240	12.245	12.253	(1.000)	35135	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.280	14.285	(1.166)	16597	0.27560	0.2756
*	46 Perylene-d12	264	14.402	14.407	(1.000)	26508	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100919.b\11.D
Date : 19-SEP-2010 22:37
Client ID: 1009543-13F
Sample Info: 1009543-13F;1009543-13F
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28

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2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
7.8 7.9 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 9.0 9.1 9.2 9.3
Min
File: HP MS 11.D, Ion 57.00 Inj. Date: 19-SEP-2010 22:37
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0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
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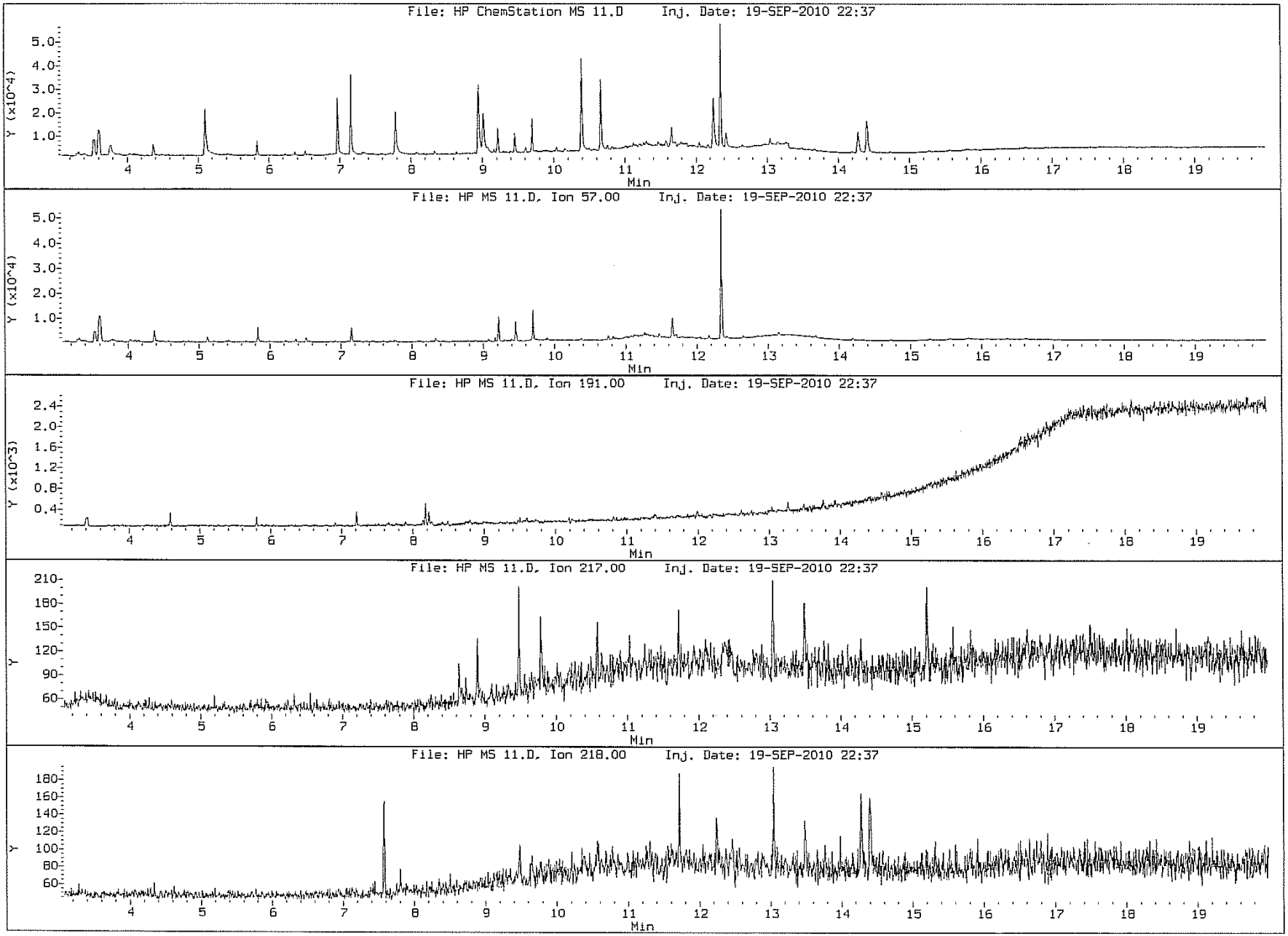
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Y (x10^4)
Min
File: HP MS 11.D, Ion 191.00 Inj. Date: 19-SEP-2010 22:37
Y (x10^3)
Min
File: HP MS 11.D, Ion 217.00 Inj. Date: 19-SEP-2010 22:37
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Min
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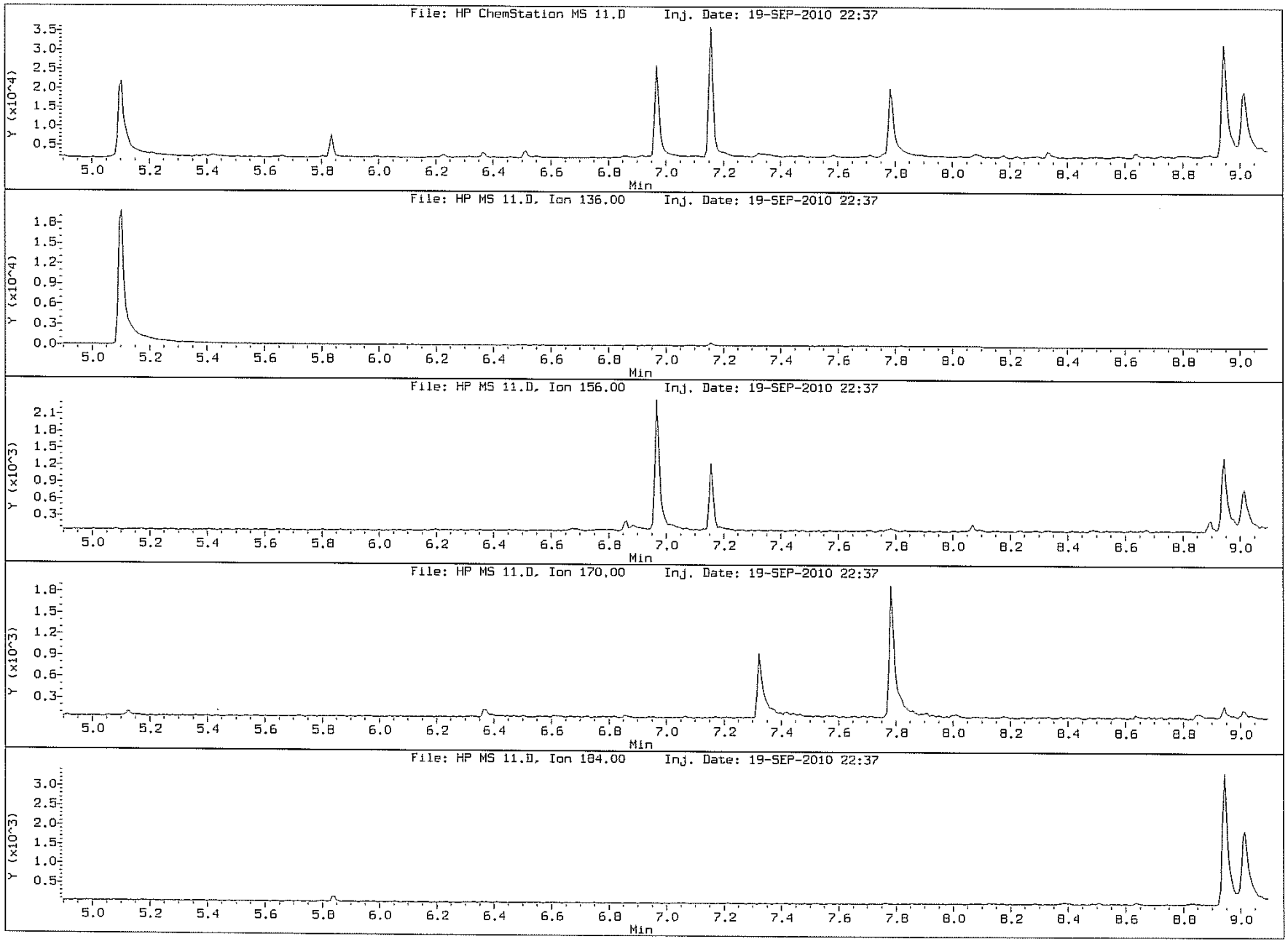
Y
Min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Y (x10^4)
Min
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Y (x10^3)
Min
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Y (x10^3)
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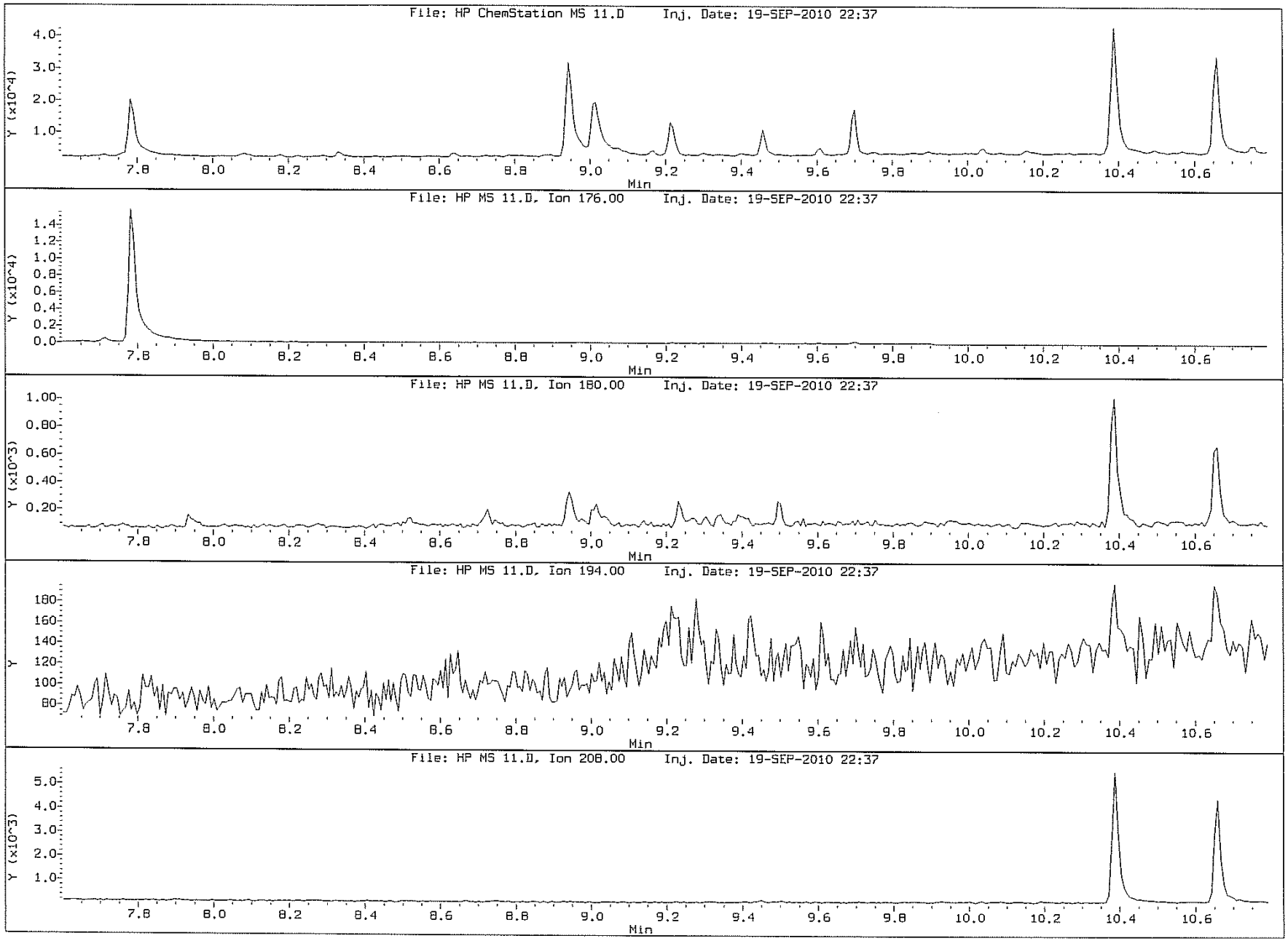
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Min
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1.2
1.0
0.8
0.6
0.4
0.2
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 11.D, Ion 180.00 Inj. Date: 19-SEP-2010 22:37
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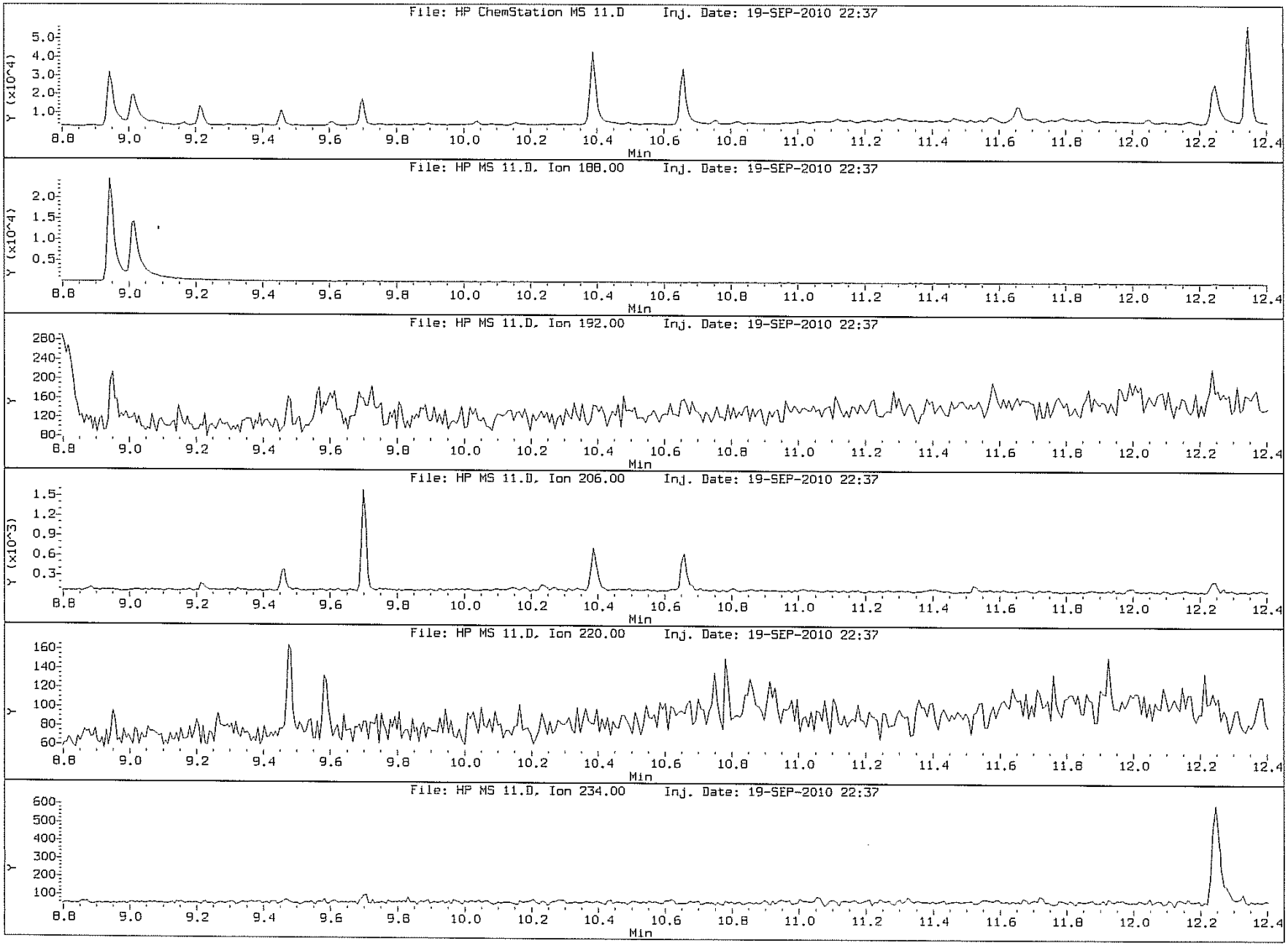
1.00
0.80
0.60
0.40
0.20
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 11.D, Ion 194.00 Inj. Date: 19-SEP-2010 22:37
Y
180
160
140
120
100
80
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 11.D, Ion 208.00 Inj. Date: 19-SEP-2010 22:37
Y (x10^3)
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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3.0
2.0
1.0
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
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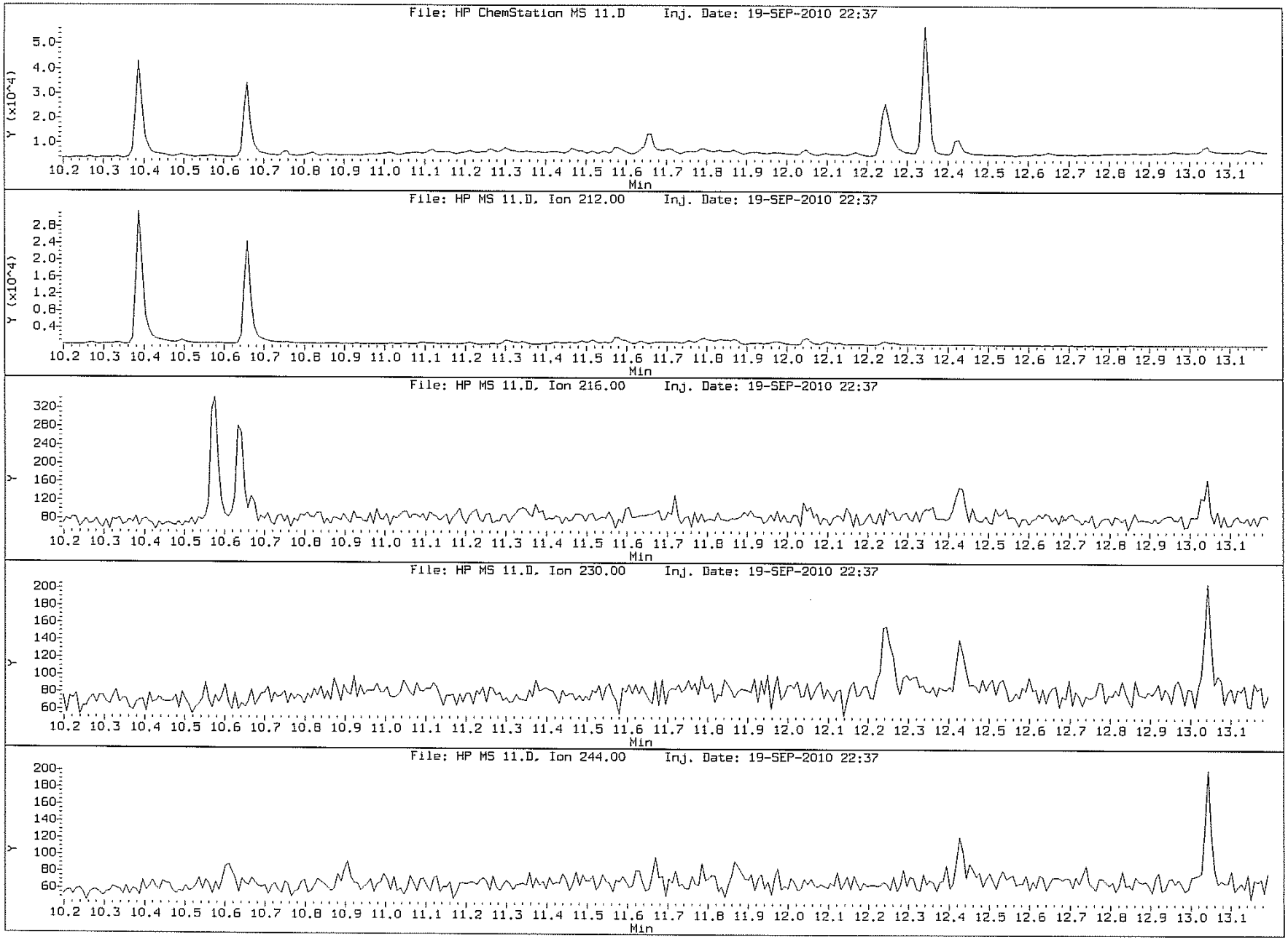
1.0
0.5
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 11.D, Ion 192.00 Inj. Date: 19-SEP-2010 22:37
Y
280
240
200
160
120
80
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 11.D, Ion 206.00 Inj. Date: 19-SEP-2010 22:37
Y (x10^3)
1.5
1.2
0.9
0.6
0.3
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 11.D, Ion 220.00 Inj. Date: 19-SEP-2010 22:37
Y
160
140
120
100
80
60
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 11.D, Ion 234.00 Inj. Date: 19-SEP-2010 22:37
Y
600
500
400
300
200
100
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min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10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
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1.6
1.2
0.8
0.4
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 11.D, Ion 216.00 Inj. Date: 19-SEP-2010 22:37
Y
320
280
240
200
160
120
80
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 11.D, Ion 230.00 Inj. Date: 19-SEP-2010 22:37
Y
200
180
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 11.D, Ion 244.00 Inj. Date: 19-SEP-2010 22:37
Y
200
180
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
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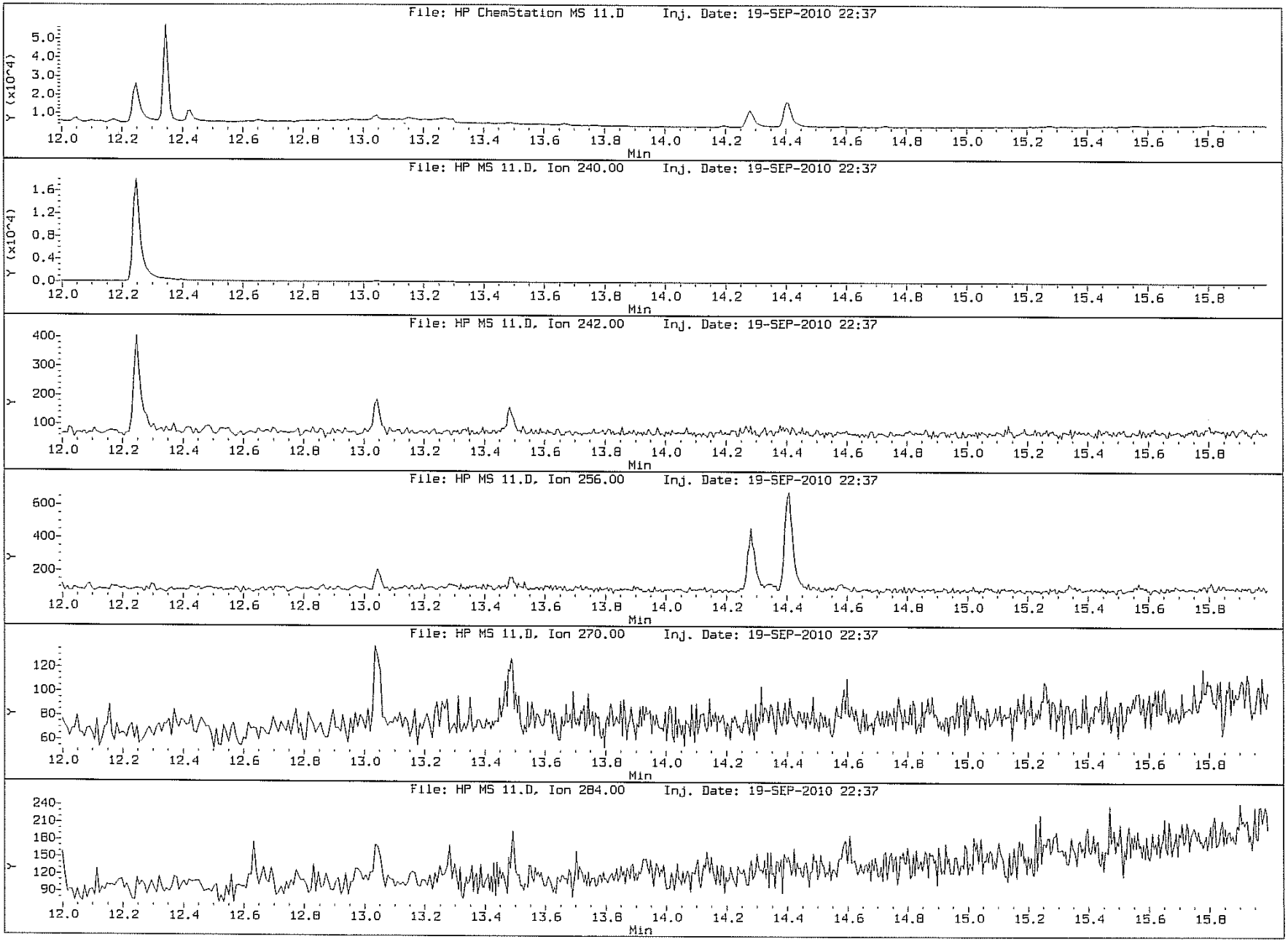
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Min
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1.2
0.8
0.4
0.0
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
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400
300
200
100
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
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Y
600
400
200
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
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Y
120
100
80
60
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min
File: HP MS 11.D, Ion 284.00 Inj. Date: 19-SEP-2010 22:37
Y
240
210
180
150
120
90
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100919.b\12.D
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Inj Date : 19-SEP-2010 23:02 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : 1009543-14F;1009543-14F
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100919.b\8270AP.m
Meth Date : 20-Sep-2010 17:04 SV7.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SX.sub
Target Version: 4.14
Processing Host: ALSHSXP091

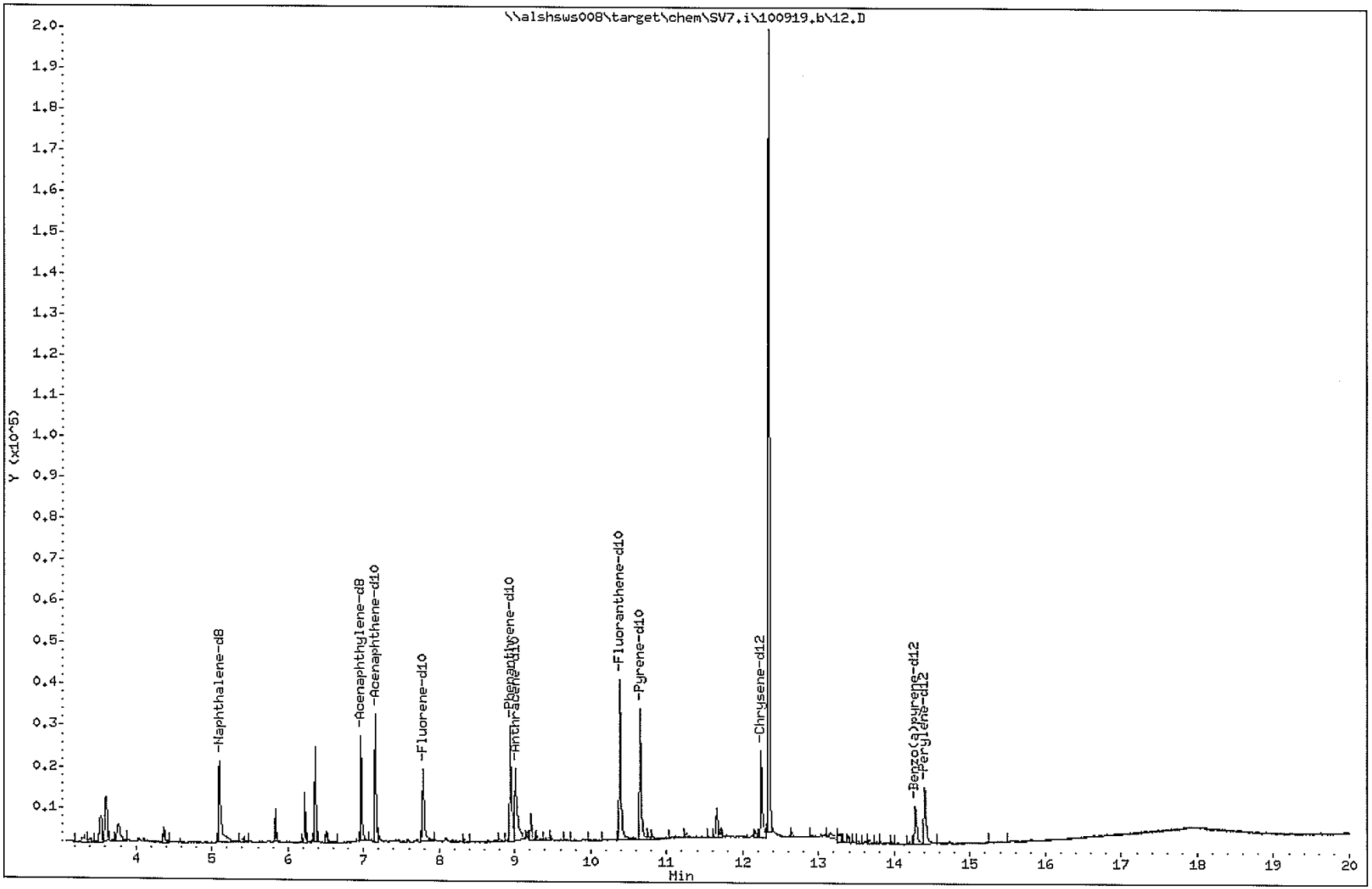
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

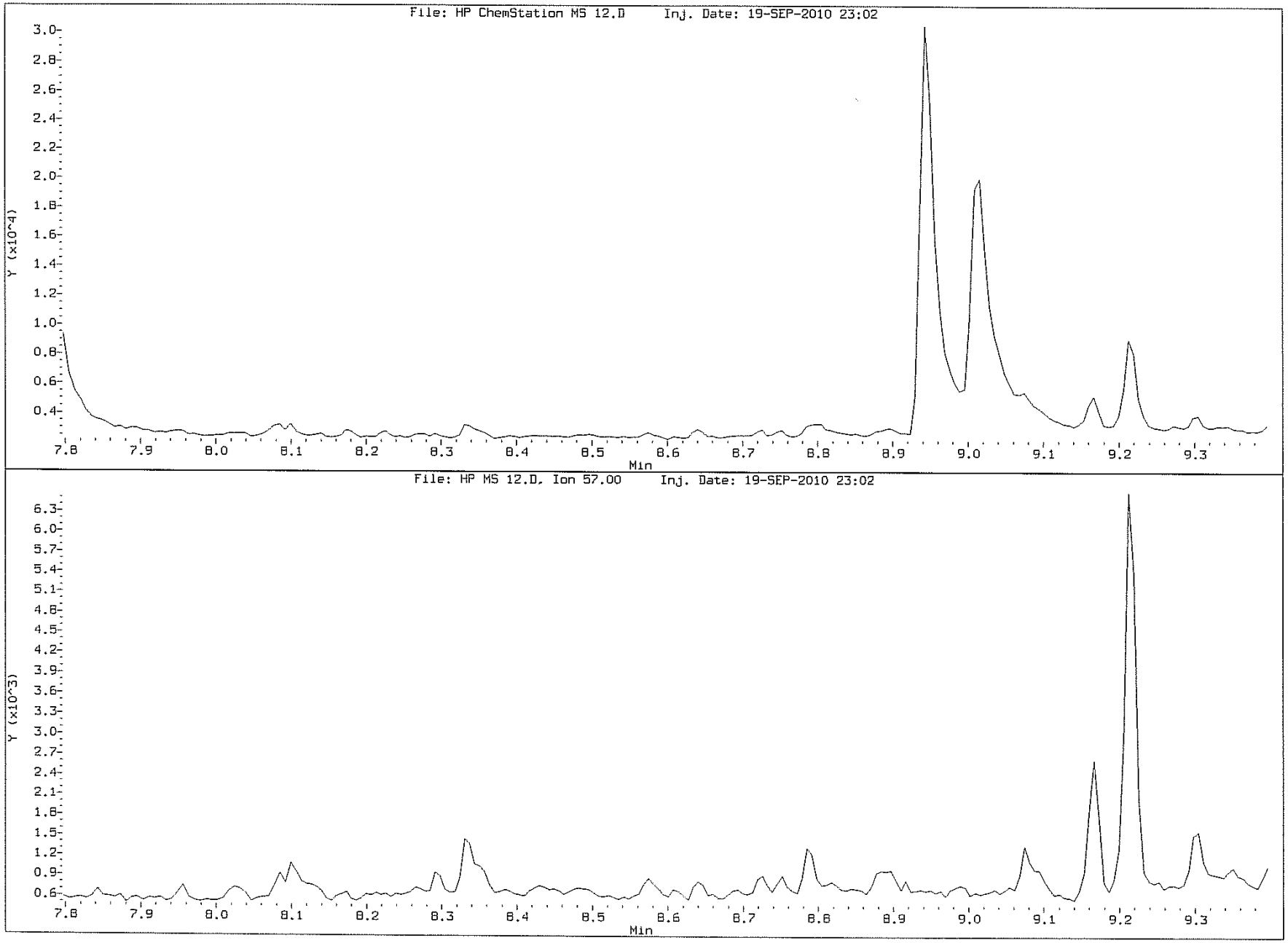
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	39841	0.40000	
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	20876	0.40000	
$	12 Acenaphthylene-d8	160	6.967	6.967	(0.974)	29140	0.30044	0.3004
*	13 Fluorene-d10	176	7.782	7.790	(1.000)	27343	0.40000	
*	18 Phenanthrene-d10	188	8.942	8.949	(1.000)	34533	0.40000	
$	27 Anthracene-d10	188	9.015	9.015	(1.008)	32280	0.29709	0.2971
*	28 Fluoranthene-d10	212	10.387	10.395	(1.000)	42849	0.40000	
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	34922	0.30692	0.3069
*	37 Chrysene-d12	240	12.245	12.253	(1.000)	34630	0.40000	
$	45 Benzo(a)pyrene-d12	264	14.280	14.285	(1.166)	17328	0.29194	0.2919
*	46 Perylene-d12	264	14.402	14.407	(1.000)	26319	0.40000	

Data File: \\alshsws008\target\chem\SV7.i\100919.b\12.D
Date : 19-SEP-2010 23:02
Client ID: 1009543-14F
Sample Info: 1009543-14F;1009543-14F
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS.NoUser
Column diameter: 0.28

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2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
7.8
7.9
8.0
8.1
8.2
8.3
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
Min
File: HP MS 12.D, Ion 57.00 Inj. Date: 19-SEP-2010 23:02
Y (x10^3)
6.3
6.0
5.7
5.4
5.1
4.8
4.5
4.2
3.9
3.6
3.3
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
7.8
7.9
8.0
8.1
8.2
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9.0
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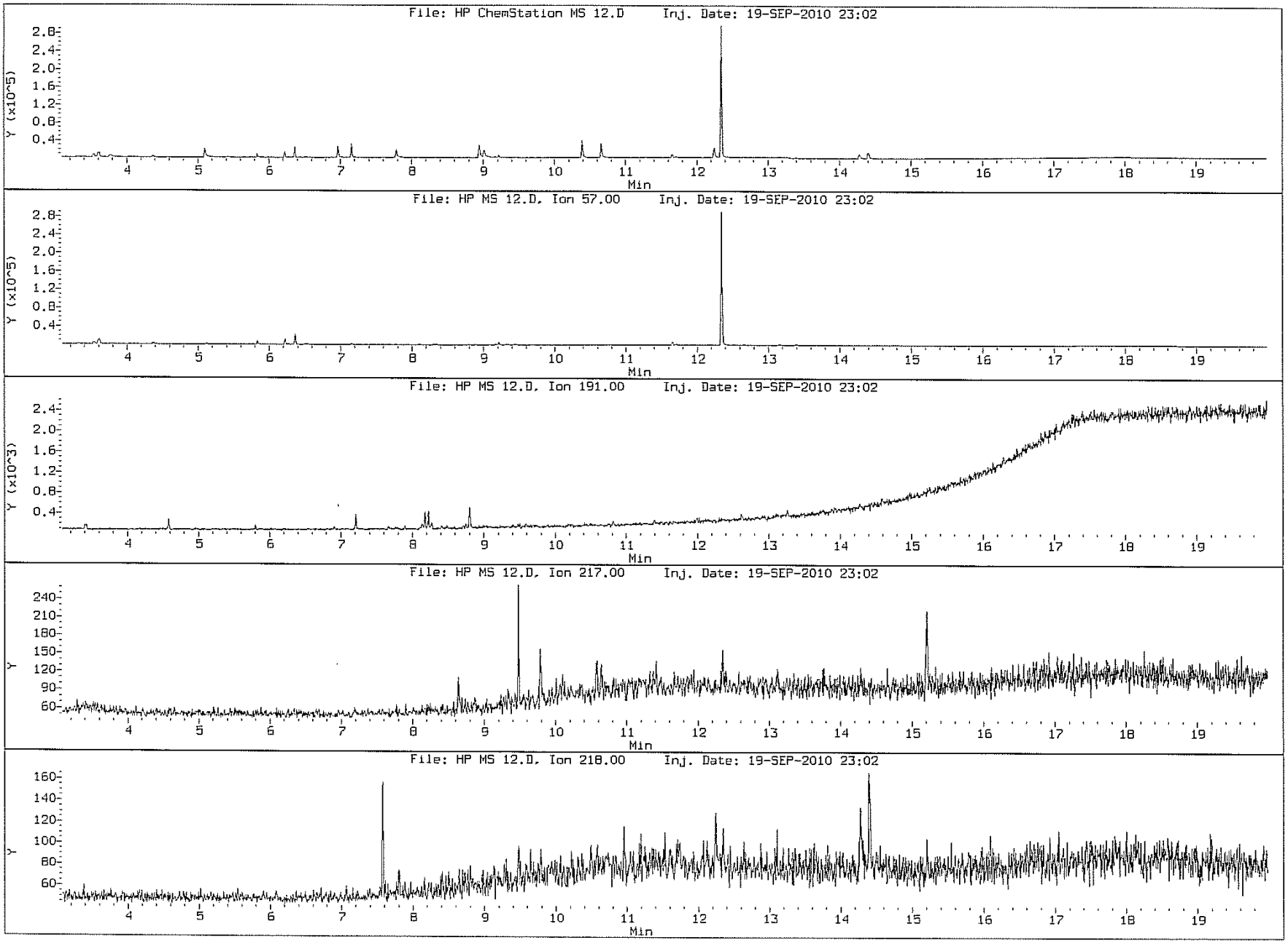
Min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File: HP MS 12.D, Ion 57.00 Inj. Date: 19-SEP-2010 23:02
Y (x10^5)
Min
File: HP MS 12.D, Ion 191.00 Inj. Date: 19-SEP-2010 23:02
Y (x10^3)
Min
File: HP MS 12.D, Ion 217.00 Inj. Date: 19-SEP-2010 23:02
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Min
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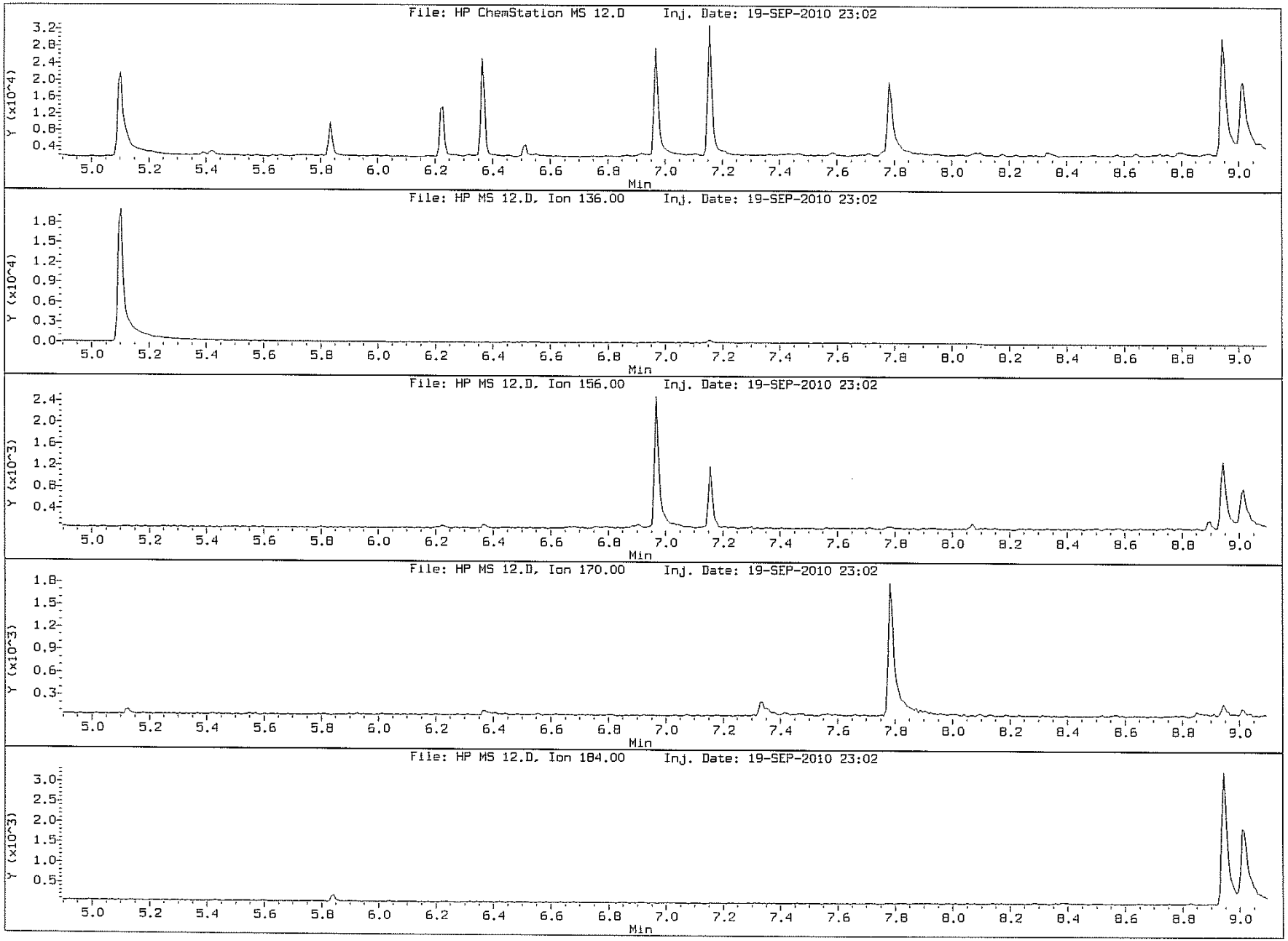
Y
Min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Y (x10^4)
Min
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Y (x10^4)
Min
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Y (x10^3)
Min
File: HP MS 12.D, Ion 170.00 Inj. Date: 19-SEP-2010 23:02
Y (x10^3)
Min
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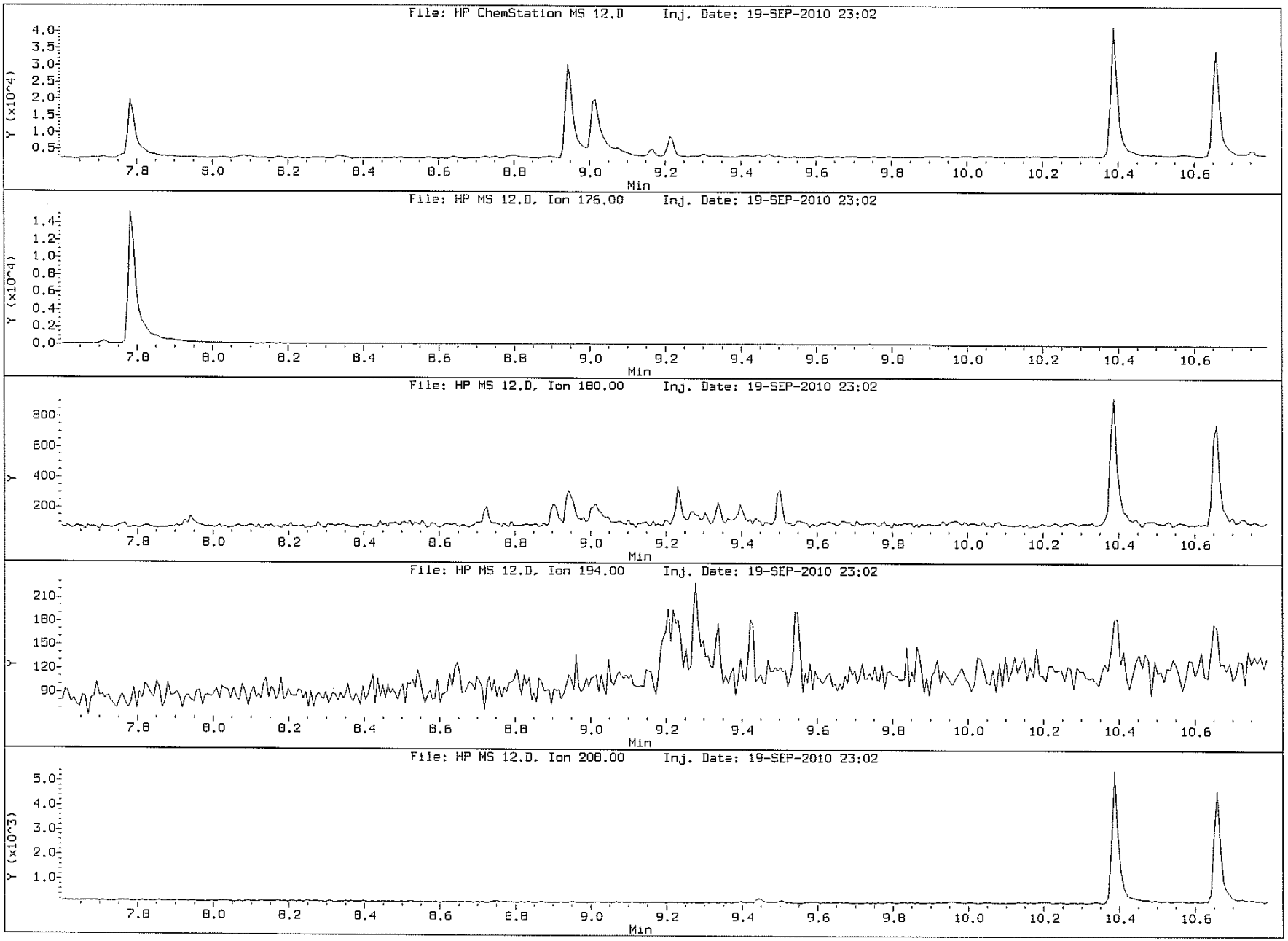
Y (x10^3)
Min


File: HP ChemStation MS 12.D Inj. Date: 19-SEP-2010 23:02
Y (x10^4)
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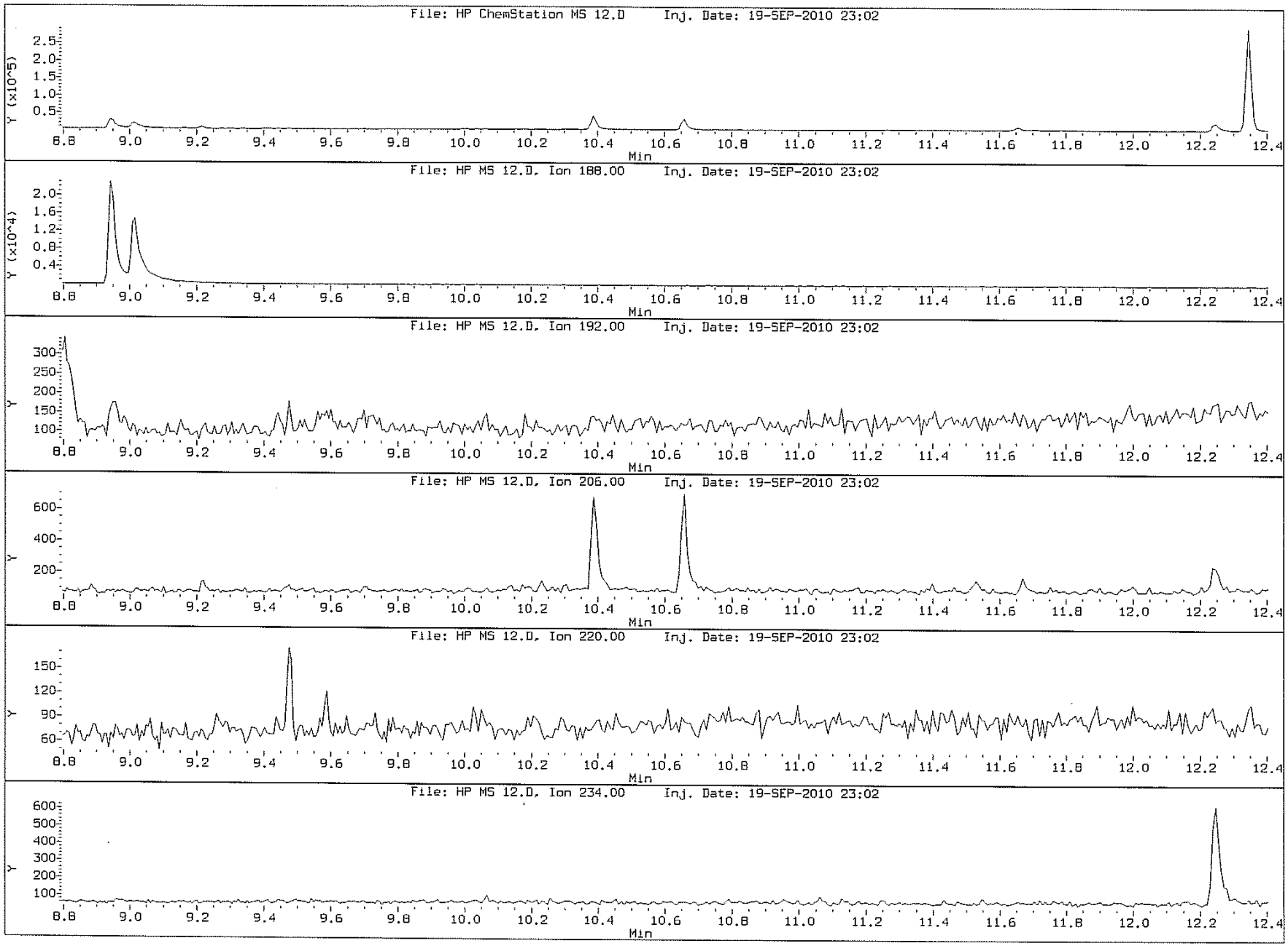
3.5
3.0
2.5
2.0
1.5
1.0
0.5
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 12.D, Ion 176.00 Inj. Date: 19-SEP-2010 23:02
Y (x10^4)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 12.D, Ion 180.00 Inj. Date: 19-SEP-2010 23:02
Y
800
600
400
200
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 12.D, Ion 194.00 Inj. Date: 19-SEP-2010 23:02
Y
210
180
150
120
90
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min
File: HP MS 12.D, Ion 208.00 Inj. Date: 19-SEP-2010 23:02
Y (x10^3)
5.0
4.0
3.0
2.0
1.0
7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6
Min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1.5
1.0
0.5
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
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Y (x10^4)
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1.6
1.2
0.8
0.4
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
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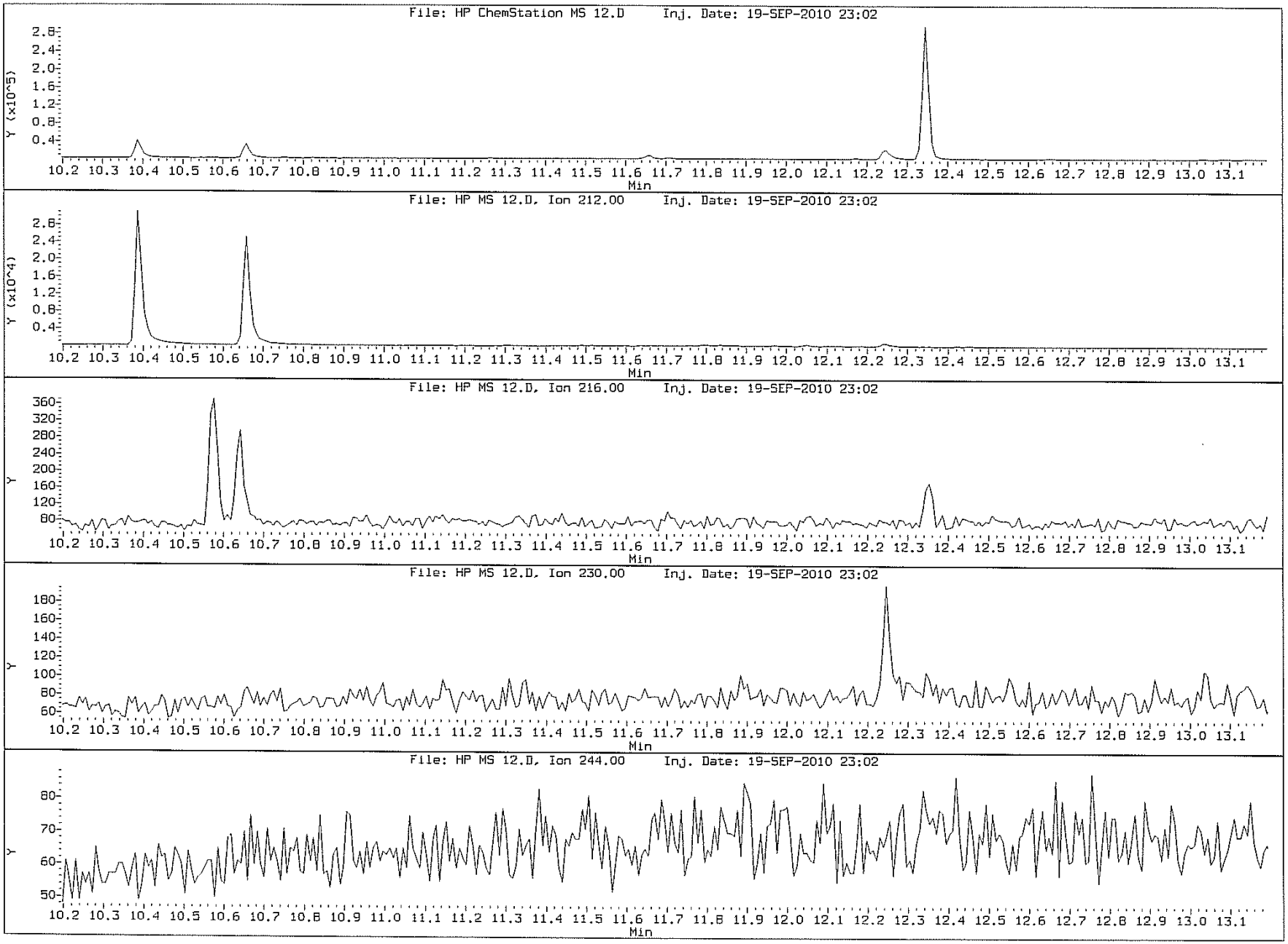
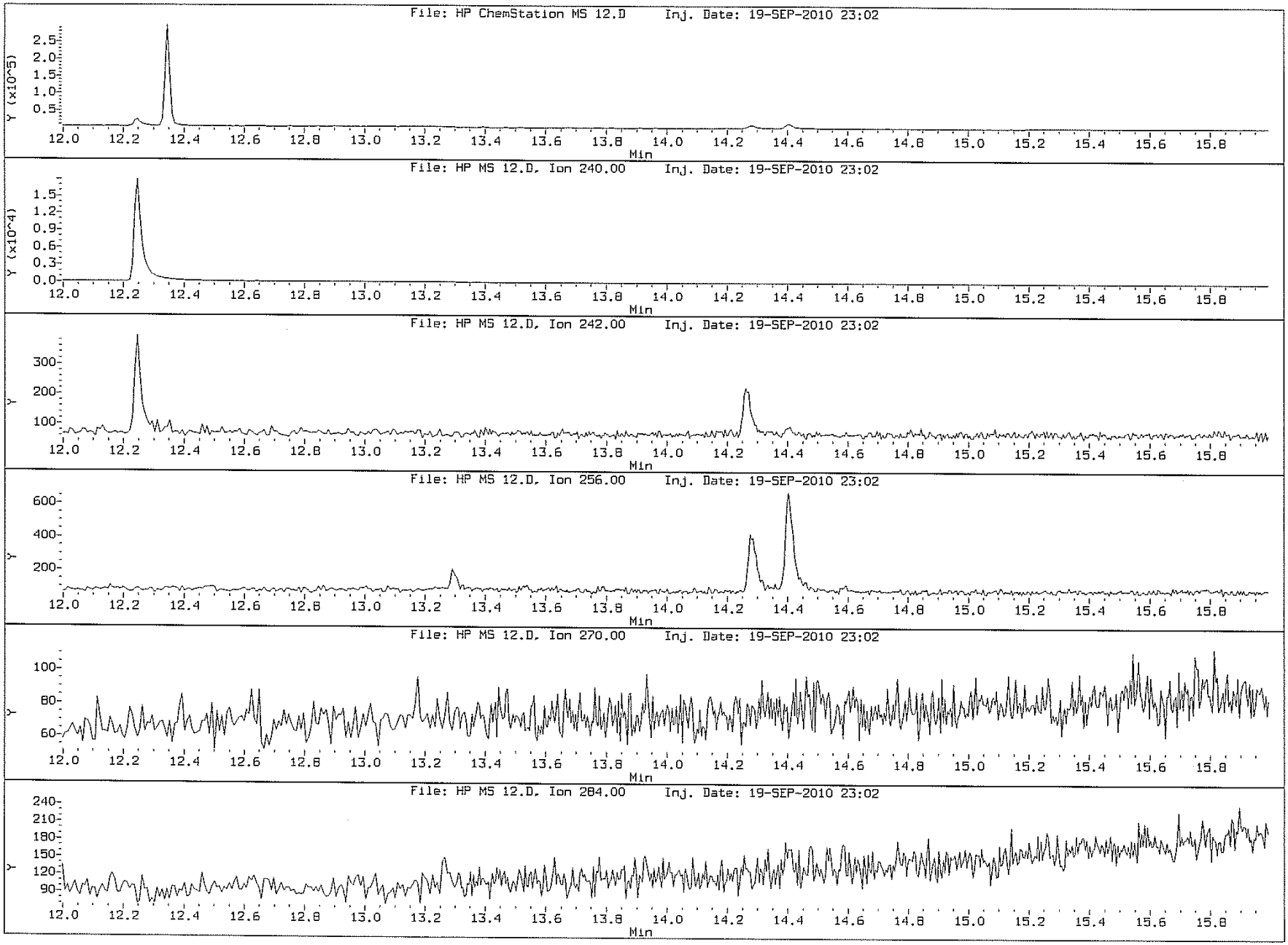
300
250
200
150
100
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 12.D, Ion 206.00 Inj. Date: 19-SEP-2010 23:02
Y
600
400
200
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 12.D, Ion 220.00 Inj. Date: 19-SEP-2010 23:02
Y
150
120
90
60
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min
File: HP MS 12.D, Ion 234.00 Inj. Date: 19-SEP-2010 23:02
Y
600
500
400
300
200
100
8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4
Min


File: HP ChemStation MS 12.D Inj. Date: 19-SEP-2010 23:02
Y (x10^5)
2.8
2.4
2.0
1.6
1.2
0.8
0.4
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 12.D, Ion 212.00 Inj. Date: 19-SEP-2010 23:02
Y (x10^4)
2.8
2.4
2.0
1.6
1.2
0.8
0.4
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 12.D, Ion 216.00 Inj. Date: 19-SEP-2010 23:02
Y
360
320
280
240
200
160
120
80
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 12.D, Ion 230.00 Inj. Date: 19-SEP-2010 23:02
Y
180
160
140
120
100
80
60
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min
File: HP MS 12.D, Ion 244.00 Inj. Date: 19-SEP-2010 23:02
Y
80
70
60
50
10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
Min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Y (x10^5)
File: HP MS 12.D, Ion 240.00 Inj. Date: 19-SEP-2010 23:02
Y (x10^4)
File: HP MS 12.D, Ion 242.00 Inj. Date: 19-SEP-2010 23:02
Y
File: HP MS 12.D, Ion 256.00 Inj. Date: 19-SEP-2010 23:02
Y
File: HP MS 12.D, Ion 270.00 Inj. Date: 19-SEP-2010 23:02
Y
File: HP MS 12.D, Ion 284.00 Inj. Date: 19-SEP-2010 23:02
Y
12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8
Min

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALS-HS Case No.: SAS No.: SDG No.: 1009543

Instrument ID: SV7 Calibration Date: 09/20/10 Time: 0040

Lab File ID: 16 Init. Calib. Date(s): 09/16/10 09/16/10

Init. Calib. Times: 1509 1712

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	$\overline{RRF}$	RRF0.4	MIN RRF	%D	MAX %D
Naphthalene	1.228	1.195	0.7	2.7	30.0
2-Methylnaphthalene	0.646	0.565	0.4	12.5	30.0
1-Methylnaphthalene	0.799	0.834	0.01	4.4	30.0
2-Methylnaphthalene-d10	0.610	0.592	0.01	3.0	30.0
Acenaphthylene	2.158	2.208	0.9	2.3	30.0
Acenaphthene	1.382	1.364	0.9	1.3	30.0
Fluorene	1.229	1.342	0.9	9.2	30.0
Phenanthrene	1.192	1.208	0.7	1.3	30.0
Anthracene	1.344	1.546	0.7	15.0	30.0
2,3-Dimethylanthracene	0.788	0.900	0.01	14.2	30.0
1-Methylphenanthrene	1.029	1.159	0.01	12.6	30.0
Fluoranthene	1.164	1.214	0.6	4.3	30.0
Pyrene	1.308	1.269	0.6	3.0	30.0
2-Methylfluoranthenes	0.746	0.729	0.01	2.3	30.0
1-Methylpyrene	0.815	0.825	0.01	1.2	30.0
Benzo(a)anthracene	1.030	1.001	0.8	2.8	30.0
Chrysene	1.566	1.554	0.7	0.8	30.0
6-Methylchrysene	0.886	0.884	0.01	0.2	30.0
Benzo(b)fluoranthene	1.285	1.216	0.7	5.4	30.0
Benzo(k)fluoranthene	1.811	1.958	0.7	8.1	30.0
Benzo(e)pyrene	1.435	1.397	0.01	2.6	30.0
Benzo(a)pyrene	1.384	1.398	0.7	1.0	30.0
Perylene	1.509	1.501	0.01	0.5	30.0
Indeno(1,2,3-cd)pyrene	1.009	0.974	0.5	3.5	30.0
Dibenzo(a,h)anthracene	1.224	1.248	0.4	2.0	30.0
Benzo(g,h,i)perylene	1.379	1.390	0.5	0.8	30.0
Acenaphthylene-d8	1.858	1.892	0.01	1.8	30.0
Anthracene-d10	1.258	1.314	0.01	4.4	30.0
Pyrene-d10	1.062	1.010	0.01	4.9	30.0
Benzo(a)pyrene-d12	0.686	0.678	0.01	1.2	30.0

FORM VII SV

ALS Laboratory Group

GC/MS Akyl PAHs EPA method 8270D by SIM

Data file : \\alshsws008\target\chem\SV7.i\100919.b\16.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 20-SEP-2010 00:40 MS Autotune Date: 01-JUN-2010 13:49
Operator : ALSHS.NoUser Inst ID: SV7.i
Smp Info : CCV;CCV;2
Misc Info : ;;0;1;
Comment :
Method : \\alshsws008\target\chem\SV7.i\100919.b\8270AP.m
Meth Date : 20-Sep-2010 17:04 SV7.i Quant Type: ISTD
Cal Date : 16-SEP-2010 15:58 Cal File: 4.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CCV.sub
Target Version: 4.14
Processing Host: ALSHSXP091

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 Naphthalene-d8	136	5.102	5.102	(1.000)	48848	0.40000	
	2 Naphthalene	128	5.125	5.125	(1.004)	58397	0.40000	0.3895
	8 2-Methylnaphthalene-d10	152	5.887	5.887	(1.154)	28932	0.40000	0.3882
	3 2-Methylnaphthalene	142	5.925	5.925	(1.161)	27611	0.40000	0.3498
	4 1-Methylnaphthalene	142	6.038	6.038	(1.183)	40723	0.40000	0.4173
$	12 Acenaphthylene-d8	160	6.967	6.967	(0.974)	45688	0.40000	0.4072
	10 Acenaphthylene	152	6.982	6.982	(0.976)	53309	0.40000	0.4092
*	9 Acenaphthene-d10	162	7.155	7.155	(1.000)	24149	0.40000	
	11 Acenaphthene	153	7.193	7.193	(1.005)	32938	0.40000	0.3948
*	13 Fluorene-d10	176	7.782	7.790	(1.000)	28104	0.40000	
	14 Fluorene	166	7.820	7.820	(1.005)	37722	0.40000	0.4368
*	18 Phenanthrene-d10	188	8.942	8.949	(1.000)	39504	0.40000	
	19 Phenanthrene	178	8.975	8.975	(1.004)	47733	0.40000	0.4056
$	27 Anthracene-d10	188	9.015	9.015	(1.008)	51917	0.40000	0.4177
	20 Anthracene	178	9.034	9.034	(1.010)	61062	0.40000	0.4598
	26 1-Methylphenanthrene	192	9.725	9.725	(1.088)	45800	0.40000	0.4505
*	28 Fluoranthene-d10	212	10.387	10.395	(1.000)	50338	0.40000	
	29 Fluoranthene	202	10.411	10.411	(1.002)	61129	0.40000	0.4173
	25 2,3-Dimethylanthracene	206	10.452	10.452	(1.169)	35549	0.40000	0.4567
$	36 Pyrene-d10	212	10.658	10.658	(1.026)	50819	0.40000	0.3802
	30 Pyrene	202	10.683	10.683	(1.029)	63884	0.40000	0.3881

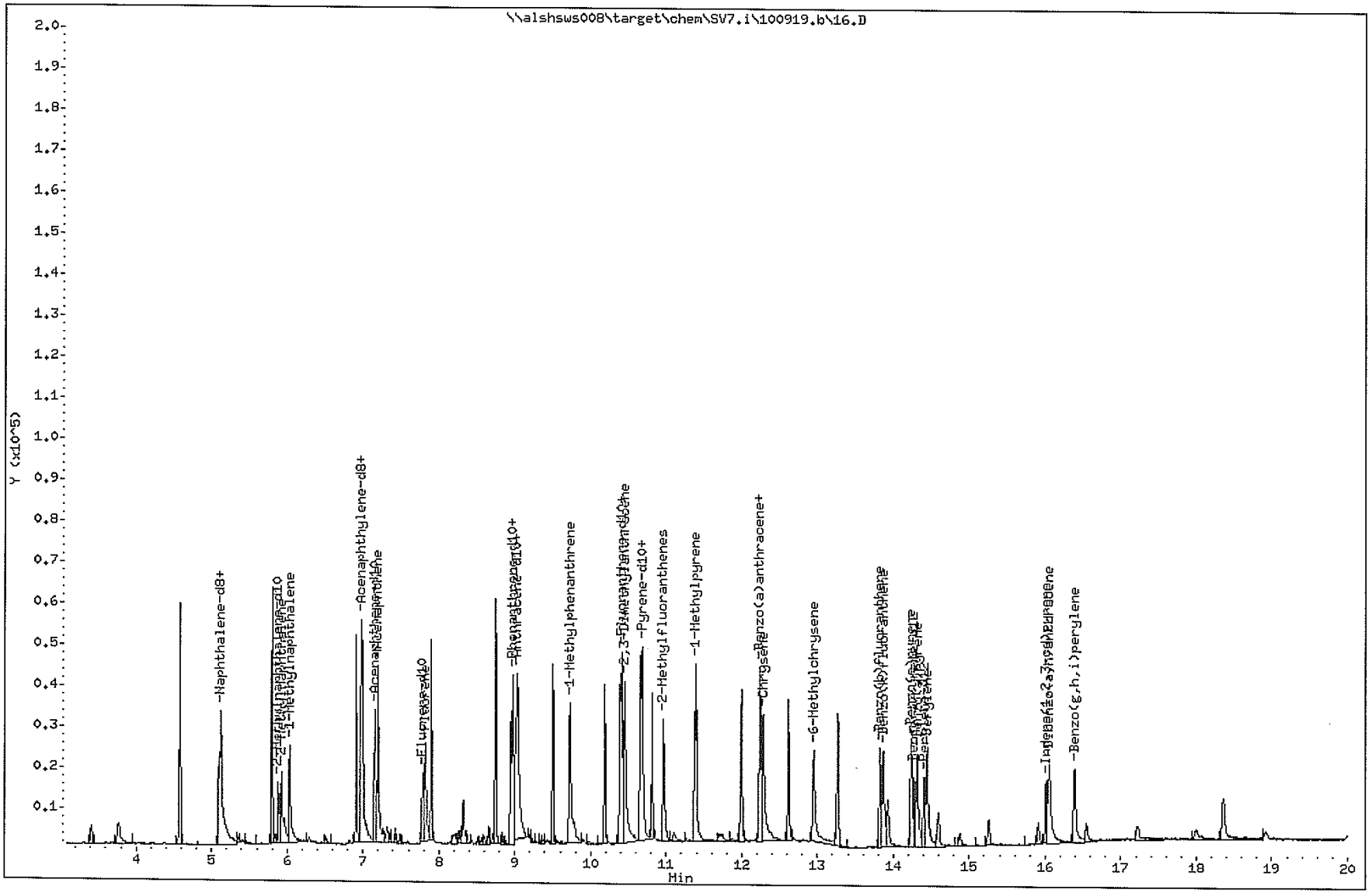
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	34 2-Methylfluoranthenes	216	10.962	10.962	(1.055)	36711	0.40000	0.3908
	35 1-Methylpyrene	216	11.374	11.373	(1.095)	41552	0.40000	0.4050
	38 Benzo(a)anthracene	228	12.237	12.237	(0.999)	41644	0.40000	0.3888
*	37 Chrysene-d12	240	12.245	12.253	(1.000)	41598	0.40000	
	39 Chrysene	228	12.286	12.286	(1.003)	64662	0.40000	0.3971
	44 6-Methylchrysene	242	12.953	12.953	(1.058)	36791	0.40000	0.3992
	47 Benzo(b)fluoranthene	252	13.825	13.830	(0.960)	37995	0.40000	0.3785
	48 Benzo(k)fluoranthene	252	13.869	13.869	(0.963)	61177	0.40000	0.4324
	49 Benzo(e)pyrene	252	14.236	14.241	(0.988)	43663	0.40000	0.3894
$	45 Benzo(a)pyrene-d12	264	14.280	14.285	(1.166)	28193	0.40000	0.3954
	50 Benzo(a)pyrene	252	14.319	14.319	(0.994)	43695	0.40000	0.4043
*	46 Perylene-d12	264	14.407	14.407	(1.000)	31248	0.40000	
	51 Perylene	252	14.446	14.446	(1.003)	46893	0.40000	0.3978
	52 Indeno(1,2,3-cd)pyrene	276	16.012	16.017	(1.111)	30436	0.40000	0.3859(M)
	53 Dibenzo(a,h)anthracene	278	16.056	16.056	(1.114)	39011	0.40000	0.4080
	54 Benzo(g,h,i)perylene	276	16.389	16.389	(1.138)	43423	0.40000	0.4030

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\SV7.i\100919.b\16.D
Date : 20-SEP-2010 00:40
Client ID: CCV
Sample Info: CCV;CCV;2
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV7.i
Operator: ALSHS,NoUser
Column diameter: 0.28



Logbook #23316 Solids Extraction Prep Log Method 3541 ALK PH11

Analyst TL Date 09/17/2010 SOP # EX1002

WO # / SX #	Initial Weight (g)	Solvent Volume	Soxhlet #	Final Vol. (mL)	Comments / Batch ID# Approx Wt Na_2SO_4 46107
ABCKG-100917	30.00	50ml	01	1ml	Spk verified by KC
ACCSS1-100917	↓	↓	02	↓	
ACCSDS-100917	↓	↓	03	↓	
1009537-01D	15.02	↓	04	0.5ml	33.09
-03D	15.07	↓	05	↓	33.04
-06D	15.01	↓	06	↓	33.07
-08D	15.03	↓	07	↓	33.01
-10D	15.02	↓	08	↓	30.05
-12D	30.01	↓	09	1ml	29.18
1009543-01C	15.01	↓	10	0.5ml	33.14
-03C	15.00	↓	11	↓	33.16
-06C	30.01	↓	12	1ml	29.21
-09C	30.03	↓	13	↓	29.26
-12C	15.02	↓	14	0.5ml	33.17

09/17/2010 TL

ringe ID: 39-11-11	1	2	Comments:		
S ID: CCSD 0911-66-07 Added (mL): 1ml	1 9/17/2010 TL	2	3	4	Sox Temp (degC) 140 °C
ID: ✓	vol Added (mL): ✓		Extr Solv & ID: CH_2Cl_2 - 635-86-07		
RR ID: 20911-68-03	vol added (mL): 1ml / 0.5ml		Exch Solv & ID: ✓		
2SO4 ID:	2011313-09		✓		
pared by: TL			Reviewed by: JA		

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S Laboratory Group
alyst RG

Liquid-Liquid Extraction PREP LOG

Extraction Date: 9/17/10

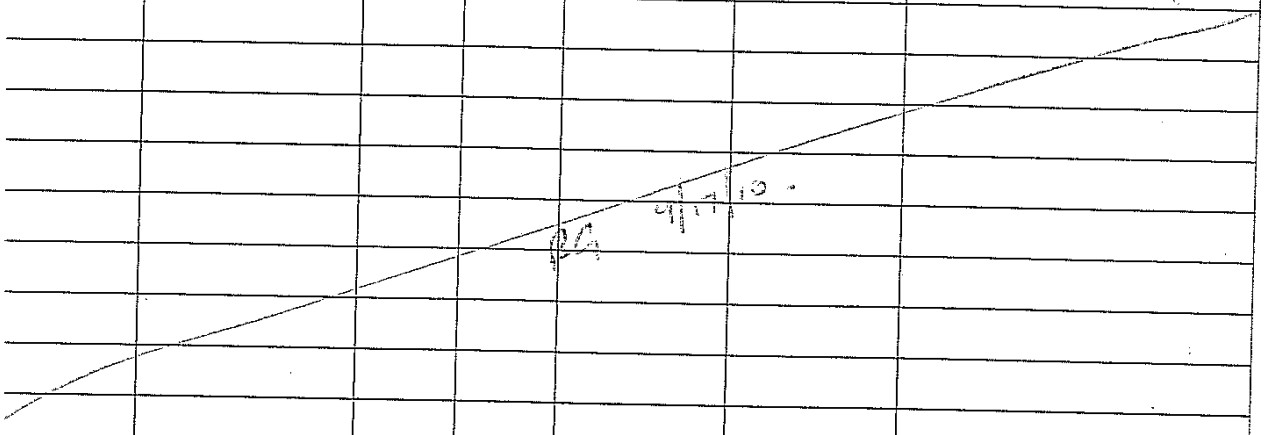
Method ALK PAH 3520

Logbook # 23116

SOP

WO#	SX #	init pH	pH Adjust	Sample Volume mLs	Final Volume, mLs	Comments / Batch ID# / H2O Bath Temp, ° C	
1BLKW1	170910	5	1	1000 ml	1.0	START @ 1-38 pm	#2
1LCSW1	↓	5	1	↓	↓		↓
1LCSDW1	↓	5	1	↓	↓		↓
1009537	02F	7	1	↓	↓		↓
	04F	7	1	↓	↓		↓
	05F	7	1	↓	↓		↓
	09F	7	1	↓	↓		↓
	11F	7	1	↓	↓	STOP @ 7-38 pm	↓
009537	13F	7	1	1000 ml	1.0	START @ 2-26 pm	#1
009537	14F.	7	1	↓	↓		↓
009543	02F	7	1	↓	↓		↓
	04F	7	1	↓	↓		↓
	05F	7	1	↓	↓		↓
	07F	7	1	↓	↓		↓
	08F.	7	1	↓	↓	STOP @ 8-26 pm	↓

RG 9/17/10.



nge ID: 91004	1	2	Comments:		
ID: 9116407 Added (mL): 1-0	1	2	3	4	5
ID: -	vol Added (mL): —		Extr Solv & ID: MeCl2 E358505		
R ID: 209116602	vol added (mL): 1-0		Exch Solv & ID:		
H ID:			H_2SO_4 ID: E35668		
pared by: RG			Reviewed by:		

ubook - Liquid-Liquid Water Prep

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ALS Laboratory Group
Analyst RG

Liquid-Liquid Extraction PREP LOG
Extraction Date: 9/18/10

Logbook # 23116
Method ALK PHH 3520. SOP

	WO#	SX #	init pH	pH Adjust	Sample Volume mLs	Final Volume, mLs	Comments / Batch ID# / H2O Bath Temp, ° C
1	ABLKW1	180910	5	1	1000ml	1.0	START @ 10:35 AM
2	ALCSW1	↓	5	1	↓	↓	↓
3	ALCSDW1	↓	5	1	↓	↓	↓
4	1009537	07F	7	1	↓	↓	↓
5	1009543	02E	7	1	↓	↓	RE-EXTRACT
6	1009543	10F	7	1	↓	↓	POSSIBLE 2x Surrogate.
7		11F	7	1	↓	↓	↓
8		13F	7	1	↓	↓	END @ 4:35 pm
1	1009543	14F	7	1	1000ml	1.0	START @ 11:31 AM
2	1009582	02E	7	1	↓	↓	↓
3		04E	7	1	↓	↓	↓
4		06E	7	1	↓	↓	↓
5		07E	7	1	↓	↓	↓
6		11E	7	1	↓	↓	↓
7		13E	5	1	↓	↓	END @ 5:31 pm

#2

#1

RG 9/18/10.

Syringe ID: 4391111	1	2	Comments:
LCS ID: 209116407 vol Added (mL): 1.0	1	2	3 4 5
MS ID: — vol Added (mL): —			Extr Solv & ID: MeCl2 6358505
SURR ID: 209116803 vol added (mL): 1.0			Exch Solv & ID: —
NaOH ID:			H_2SO_4 ID: 6356619
Prepared by: RG			Reviewed by:

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